LETTING DATE

08/18/2026

CITY COUNCIL MEMBERS
NICOLAS ABOUASSALY, MAYOR
WILL BRANDT
GRANT HARPER
STEVE JENSEN
SARA MENTZER
GAGE MISKIMEN
KEVIN UNEMIN



IOWA

IOWA DOT

HIGHWAY DIVISION

PLANS OF PROPOSED IMPROVEMENTS ON THE

URBAN ROAD SYSTEM

GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS IN THE CITY OF MARION, ALBURNETT ROAD EXTENSION

PCC PAVEMENT - GRADE AND REPLACE

THIS PROJECT IS COVERED BY IOWA DNR FLOODPLAIN CONSTRUCTION PERMIT NO. FP2019-79

THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOUCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2 AND THE STORM WATERPOLLUTION PREVENTION PLAN WHICH IS A PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

STANDARD ROAD PLANS APPLICABLE TO THE PROJECT CAN BE FOUND ON SHEET C.16

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS

SECTION 404 PERMIT AND CONDITIONS	281-1 MODIFIED
CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS REGIONAL PERMIT 7 (2019-303). A COPY OF THIS PERMIT IS AVAILABLE FROM THE IOWA DOT WEBSITE (http://www.envpermits.iowadot.gov/). THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.	

DESIGN DATA URBAN					
ALBURNETT RD (2ND ST)			BOYSON RD		
2025 AADT	1,580	V.P.D.	2021 AADT	12,500	V.P.D.
2045 AADT	11,900	V.P.D.	2045 AADT	16,600	V.P.D.
2045 DHV	1,190	V.P.H.	2045 DHV	1,660	V.P.H.
TRUCKS	1	%	TRUCKS	1	%
TOTAL DESIGN ESALS	707,500		TOTAL DESIGN ESALS	1,393,400	
ALBURNETT RD DESIGN SPEED	30	M.P.H.			
7TH AVE DESIGN SPEED	35	M.P.H.			
8TH AVE DESIGN SPEED	25	M.P.H.			
9TH AVE DESIGN SPEED	25	M.P.H.			
BOYSON RD DESIGN SPEED	35	M.P.H.			

CITY OF MARION
THIS ENGINEERING DOCUMENT IS APPROVED FOR CONSTRUCTION
5/13/2026
MICHAEL BARKALOW, CITY ENGINEER DATE

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

5/13/2026

Dax M. Suntken, P.E. Date

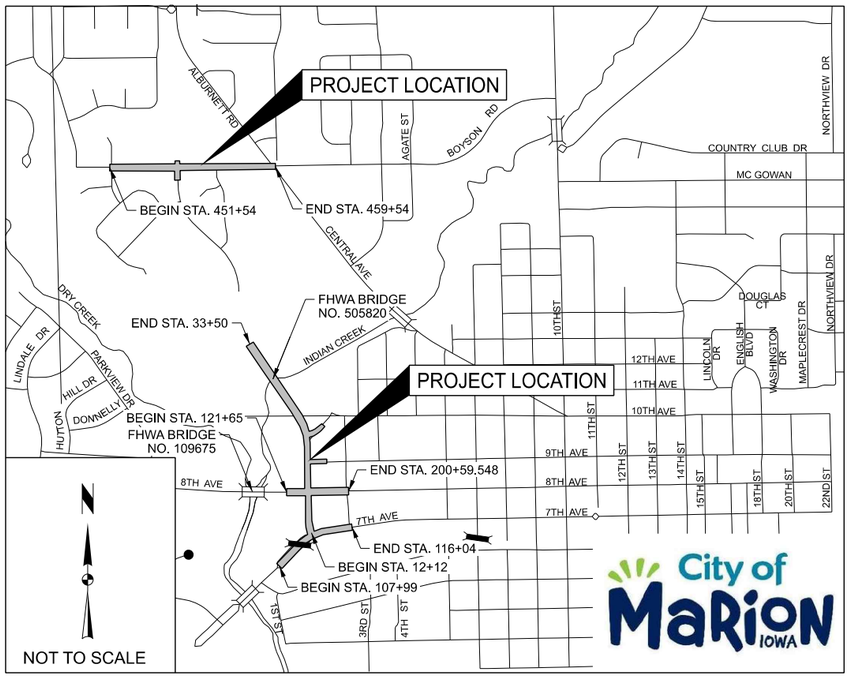
License Number P25330

My License Renewal Date is December 31, 2026

Pages or sheets covered by this seal:

ALL EXCEPT G, H, N, P, AND V.1-V.35

LICENSED PROFESSIONAL ENGINEER — DAX M. SUNTKEN — P25330 — IOWA



VICINITY MAP

IOWA ONE CALL
1-800-292-8989 | 811
www.iowaonecall.com

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	DAX M. SUNTKEN	CIVIL
G.1	TIM F. FORINASH	LAND SURVEYOR
N.1	ANTHONY J. BOES	TRAFFIC SIGNALS & LIGHTING
V.1	JORDAN A. GUSTAFSON	STRUCTURAL DESIGN
V.4	ADAM R. BULLERMAN	HYDRAULIC DESIGN

SNYDER & ASSOCIATES

	TOTAL
	433
PROJECT IDENTIFICATION NUMBER	

IOWA DOT PROJECT NUMBER	
HDP-4775(646)--71-57	

INDEX OF SHEETS	
NO.	DESCRIPTION
A.1	TITLE SHEET
A.2	LEGENDS
B.1-B.6	TYPICAL SECTIONS & PAVEMENT DETAILS
C.1	GENERAL NOTES
C.2-C.30	ESTIMATE OF QUANTITIES AND TABULATIONS
D.1-D.6	ALBURNETT RD PLAN AND PROFILE
E.1-E.2	7TH AVE PLAN AND PROFILE
E.3-E.4	8TH AVE PLAN AND PROFILE
E.5	9TH AVE PLAN AND PROFILE
E.6	2ND ST PLAN AND PROFILE
E.7-E.12	TRAIL PLAN AND PROFILE
E.13-E.15	BOYSON RD PLAN AND PROFILE
G.1-G.17	SURVEY CONTROL & REFERENCE INFORMATION
H.1-H.9	RIGHT-OF-WAY
J.1	TRAFFIC CONTROL AND STAGING - NOTES
J.2-J.3	TRAFFIC CONTROL AND STAGING - OVERALL
J.4	TRAFFIC CONTROL AND STAGING - SIGN DETAILS
J.10	TRAFFIC CONTROL AND STAGING - STAGE 1
J.20	TRAFFIC CONTROL AND STAGING - STAGE 2
J.30-J.31	TRAFFIC CONTROL AND STAGING - STAGE 3
J.40-J.44	TRAFFIC CONTROL AND STAGING - STAGE 4
J.50-J.54	TRAFFIC CONTROL AND STAGING - STAGE 5
J.60-J.63	TRAFFIC CONTROL AND STAGING - STAGE 6
J.70-J.75	TRAFFIC CONTROL AND STAGING - STAGE 7
J.80-J.85	TRAFFIC CONTROL AND STAGING - STAGE 8
J.90-J.94	TRAFFIC CONTROL AND STAGING - STAGE 9
J.100-J.101	TRAFFIC CONTROL AND STAGING - STAGE 10
J.110-J.111	TRAFFIC CONTROL AND STAGING - STAGE 11
J.120-J.121	TRAFFIC CONTROL AND STAGING - STAGE 12
J.130-J.132	TRAFFIC CONTROL AND STAGING - STAGE 13
J.140-J.142	TRAFFIC CONTROL AND STAGING - SATGE 14
L.1-L.52	GEOMETRIC, STAKING, AND JOINTING
M.1-M.20	BURIED PIPE SHEETS - STORM
M.30-M.34	BURIED PIPE SHEETS - SANITARY
M.40-M.46	BURIED PIPE SHEETS - WATER
N.1-N.10	TRAFFIC SIGNAL SHEETS
P.1-P.9	LIGHTING SHEETS
PM.1-PM.16	PERMANENT PAVEMENT MARKINGS AND SIGNAGE
Q.1-Q.15	PROJECT REMOVALS
RC.1-RC.5	EROSION AND SEDIMENT CONTROL - NOTES
RR.10-RR.20	SWPPP-EROSION CONTROL PLAN
RR.21-RR.30	SWPPP-SEDIMENT CONTROL PLAN
S.1-S.20	SIDEWALK SHEETS
T.1-T.8	EARTHWORK QUANTITIES
U.1-U.5	SPECIAL DETAILS
U.6-U.11	RETAINING WALL PLAN AND PROFILE
U.20-U.27	FRANCHISE UTILITY RELOCATION
V.1-V.35	STRUCTURAL PLANS
V.50	8TH AVENUE BRIDGE REPAIR DETAILS
W.1-W.24	CROSS SECTIONS - ALBURNETT RD
X.1-X.5	CROSS SECTIONS - MARION BLVD
X.10-X.14	CROSS SECTIONS - 8TH AVE
X.20	CROSS SECTIONS - 9TH AVE
X.30	CROSS SECTIONS - 2ND ST
X.40-X.46	CROSS SECTIONS - BOYSON RD
X.50-X.60	TRAIL CROSS SECTIONS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	FINAL PLANS / REVISION
	5/13/2026	BY

Engineer: MGB Checked By: DMS Field Bk: Pg:

Technician: KMM Date: 5/13/2026 Project No: 116.0663

Sheet A.1

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

TITLE SHEET

SNYDER & ASSOCIATES

900 BELL DRIVE S.W.
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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet A.1

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LEGEND

Features	Existing	Proposed
SPOT ELEVATION	93.0	93.0
CONTOUR ELEVATION	93	93
FENCE (BARBED, FIELD, HOG)	-x-x-	
FENCE (CHAIN LINK)	-//-//-	
FENCE (WOOD)		
FENCE (SILT)		
TREE LINE		
TREE STUMP		
DECIDUOUS TREE \ SHRUB		
CONIFEROUS TREE \ SHRUB		
COMMUNICATION	C(*)	C
OVERHEAD COMMUNICATION	OC(*)	OC
FIBER OPTIC	FO(*)	FO
UNDERGROUND ELECTRIC	E(*)	E
OVERHEAD ELECTRIC	OE(*)	OE
GAS MAIN WITH SIZE	4" G(*)	4" G
HIGH PRESSURE GAS MAIN WITH SIZE	4" HPG(*)	4" HPG
WATER MAIN WITH SIZE	8" W(*)	8" W
SANITARY SEWER WITH SIZE	8" S(*)	8" S
DUCT BANK	DUCT(*)	
TEST HOLE LOCATION FOR SUE W/ID	1	

(*) DENOTES THE SURVEY QUALITY SERVICE LEVEL FOR UTILITIES

SANITARY MANHOLE		
STORM SEWER WITH SIZE	12" ST	12" ST
STORM MANHOLE		
SINGLE STORM SEWER INTAKE		
DOUBLE STORM SEWER INTAKE		
FIRE HYDRANT		
FIRE HYDRANT ON BUILDING		
WATER MAIN VALVE		
WATER SERVICE VALVE		
WELL		
UTILITY POLE		
GUY ANCHOR		
UTILITY POLE WITH LIGHT		
UTILITY POLE WITH TRANSFORMER		
STREET LIGHT		
YARD LIGHT		
ELECTRIC BOX		EB
ELECTRIC TRANSFORMER		E
TRAFFIC SIGN		
COMMUNICATION PEDESTAL		C
COMMUNICATION MANHOLE		C
COMMUNICATION HANDHOLE		C
FIBER OPTIC MANHOLE		F
FIBER OPTIC HANDHOLE		FO
GAS VALVE		G
GAS MANHOLE		G
GAS APPARATUS		G
FENCE POST OR GUARD POST		
UNDERGROUND STORAGE TANK		UNDER
ABOVE GROUND STORAGE TANK		ABV
SIGN		
SATELLITE DISH		
MAILBOX		
SOIL BORING		

UTILITY QUALITY SERVICE LEVELS

QUALITY LEVELS OF UTILITIES ARE SHOWN IN THE PARENTHESES WITH THE UTILITY TYPE AND WHEN APPLICABLE, SIZE. THE QUALITY LEVELS ARE BASED ON THE CI / ASCE 38-02 STANDARD.

QUALITY LEVEL (D) INFORMATION IS DERIVED FROM EXISTING UTILITY RECORDS OR ORAL RECOLLECTIONS.

QUALITY LEVEL (C) INFORMATION IS OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION WITH QUALITY D INFORMATION.

QUALITY LEVEL (B) INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

QUALITY LEVEL (A) IS HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES OBTAINED BY ACTUAL EXPOSURE OR VERIFICATION OF PREVIOUSLY EXPOSED SUBSURFACE UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

LEGEND

Survey	Found	Set
SECTION CORNER	▲	△
1/2" REBAR, CAP (UNLESS OTHERWISE NOTED)	●	○
ROW MARKER	■	□
ROW RAIL	H	
CONTROL POINT	⊙ CP	
BENCH MARK	⊕	
PLATTED DISTANCE	P	
MEASURED BEARING & DISTANCE	M	
RECORDED AS	R	
DEED DISTANCE	D	
CALCULATED DISTANCE	C	
MINIMUM PROTECTION ELEVATION	MPE	
CENTERLINE	— – — – — – —	
SECTION LINE	————	
1/4 SECTION LINE	—— — ——	
1/4 1/4 SECTION LINE	— — — —	
EASEMENT LINE	— — — — —	

UTILITY CONTACT INFORMATION

UTILITY CONTACT FOR MAPPING INFORMATION SHOWN AS RECEIVED FROM THE IOWA ONE CALL DESIGN REQUEST SYSTEM, TICKET NUMBERS 551804675, 551804676, 551804677 551804678, 551804679, AND 551804680.

ALLIANT ENERGY	Dave Blank 319-382-5461 michaelblank@alliantenergy.com
LUMEN	Matt Holub 319-431-4170 matthew.holub@lumen.com
IMON COMMUNICATIONS, LLC	Eric Bieber 319-533-2691 eric.bieber@imon.net
AUREON NETWORK SERVICES	Jeff Klocko 515-830-0445 jeff@netins.com
MIDAMERICAN-GAS	Greg Wildebour 319-298-5162 gregory.wildebour@midamerican.com
MARION MUNICIPAL WATER DEPARTMENT	Todd Stelgerwaldt 319-743-6310 tsteigerwaldt@cityofmarion.org
MEDIACOM	Jason Kepler 845-741-4196 jkepler@mediacomcc.com
ITC Midwest	Chad Levi 319-297-6765 clevi@itctransco.com
WINDSTREAM	Stephen Kness 319-538-1985 stephen.kness@windstream.com

DESIGN EXCEPTIONS

ELEMENT	CRITERIA SECTION	CRITERIA	EXCEPTION	LOCATION
Shoulder Width	GB table 7-3	8 ft	4 ft	Boyson Rd
Min. Vertical Curve Length	GB page 3-168	90 ft	60 ft	Sta. 12+40 to Sta. 13+00
Min. Vertical Curve Length	GB page 3-168	90 ft	70 ft	Sta. 27+65 to Sta. 28+35
Min. Vertical Curve Length	GB page 3-168	75 ft	40 ft	Sta. 217+78 to Sta. 218+18
Min. Vertical Curve Length	GB page 3-168	75 ft	50 ft	Sta. 320+43 to Sta. 320+93
Min. Vertical Curve Length	GB page 3-168	75 ft	70 ft	Sta. 321+00 to Sta. 321+70
Min. Rate Vertical Curvature, Sag (K)	GB page 3-175	26	9	9th Ave
Min. Rate Vertical Curvature, Sag (K)	GB page 3-175	26	14	2nd St
Driveway maximum sag breakover	3K-2 Table 3	15% (acceptable)	16.1%	Sta. 115+30 RT
Driveway maximum sag breakover	3K-2 Table 3	15% (acceptable)	19%	Sta. 321+00 RT
Bridge Freeboard	IDOT Bridge Design Manual	3' above 50-year flood elevation	1.75' above 50-year flood elevation	Indian Creek Bridge
Minimum Pipe Grades	4A-10	1% for Cross Runs	0.70%	P-33
Minimum Pipe Grades	4A-10	1% for Cross Runs	0.80%	P-34

ROADWAY DESIGN STANDARDS

Design Element	Alburnett Rd	7th Ave	8th Ave	Boyson Rd	Source / Notes
GENERAL					
Roadway Classification	Minor Arterial	Major Arterial	Minor Arterial	Minor Arterial	Marion Major Streets Guide (2025)
General Adjacent Land Use	Residential	Commercial	Residential	Residential	Marion Zoning Map (2025)
Roadway Pavement	PCC, 8"	PCC, 9"	PCC, 8"	PCC, 8"	B Sheets
Roadway Pavement Cross Slope	2%	Varies	Varies	2%	GB page 7-38, B, L, W, and X Sheets
Lane Width (ft)	11*	12	12	12	GB Section 7.3.3, PM Sheets
Two-Way Left Turn Lane (ft)	11*	-	-	-	GB Pages 4-39, 7-42, & 9-158, PM Sheets
Width of New Bridges (ft)	41 (B-B), 63 (Total)	-	-	-	GB section 7.3.5, V Sheets
Vertical Clearance (ft)	16.5	16.5	16.5	16.5	GB section 7.3.5, page 5-9, 7th Ave Ped Bridge, and Traffic Signal Mast Arms
Object Setback (ft)	1.5	1.5	1.5	1.5	AASHTO Roadside Design Guide
Clear Zone (ft)	6	5	5	5	Section 8A-2, Street lights, utility poles, and trees
URBAN					
Curb Radii (ft)	Varies (25-40)	40	30	30	L Sheets
Curb Offset (ft)	1.5* (Median) 5.5 (Bike lanes)	2*	5.5 (Future bike lanes)	3.5	3C-2 Table 1, B and PM Sheets
Roadway Width (ft)	44	Varies	44 (Varies)	Varies	B Sheets
RURAL					
Shoulder Width (ft)	-	-	-	4**	GB table 7-3, B Sheets
Foreslope (H:V)	-	-	-	3:1*	RDG section 3.3.2, B Sheets
Backslope (H:V)	-	-	-	4:1	GB Section 4.8.4, B Sheets
ELEMENTS RELATED TO DESIGN SPEED					
Design Speed (mph)	30	35	25	35	Posted Speed Limit
Posted Speed (mph)	30	35	25	35	-
Stopping Sight Distance (ft)	200	250	155	250	GB Table 3-1
Min. Horizontal Curve Radius (ft)	549.5	510	-	-	GB Section 3.3.6, G Sheets
Min. Vertical Curve Length (ft)	60**	120	40**	-	GB page 3-168, D and E Sheets
Min. Rate Vertical Curvature, Crest (K)	25	185	31	-	GB Table 3-35, D and E Sheets
Min. Rate Vertical Curvature, Sag (K)	36*	119	81	-	GB page 3-175, D and E Sheets
Minimum Gradient (percent)	0.39*	0.50	0.40*	-	GB page 3-130, D and E Sheets
Maximum Gradient (percent)	3.72	1.56	4.16	-	GB Table 7-4a, D and E Sheets

*Meets acceptable design criteria
**Design exception noted

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026
Project No: 116.0663
Sheet A.2

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

LEGENDS

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
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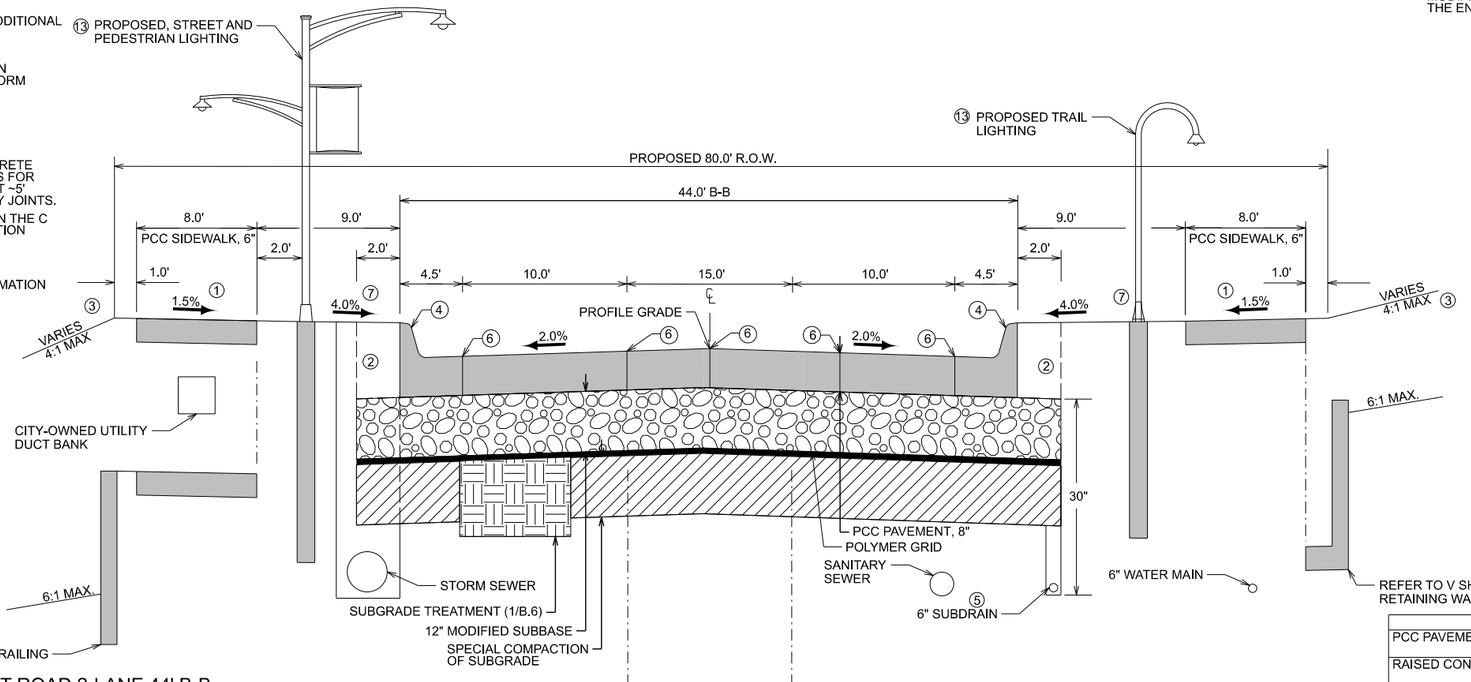
Project No: 116.0663
Sheet A.2

NOTES

1. 1.5% TYPICAL SIDEWALK CROSS SLOPE 2% MAXIMUM
2. EXCAVATE AND BACKFILL 2.0'
3. REFER TO CROSS SECTIONS AND L SHEETS FOR ADDITIONAL INFORMATION
4. 6" STANDARD CURB
5. REFER TO SHEET U.2 FOR LONGITUDINAL SUBDRAIN DETAIL. OMIT SUBDRAIN WHERE LONGITUDINAL STORM SEWER IS INSTALLED ALONG ROADWAY.
6. KT-2 OR L-2 JOINT
7. STANDARD PARKWAY SLOPE.
8. 6" SLOPED CURB
9. 6" DECORATIVE PCC SPLASH PAD. REFER TO CONCRETE MEDIANERI NOTES IN THE C SHEETS AND D SHEETS FOR ADDITIONAL INFORMATION. TRANSVERSE JOINTS AT ~5' TYPICAL SPACING AND MATCH ADJACENT ROADWAY JOINTS.
10. 6" PCC. REFER TO CONCRETE MEDIAN ERI NOTES IN THE C SHEETS AND D SHEETS FOR ADDITIONAL INFORMATION
11. 3" MULCH
12. ENGINEERING FABRIC AND 11" TOPSOIL
13. REFER TO P SHEETS FOR LIGHTING LAYOUT INFORMATION

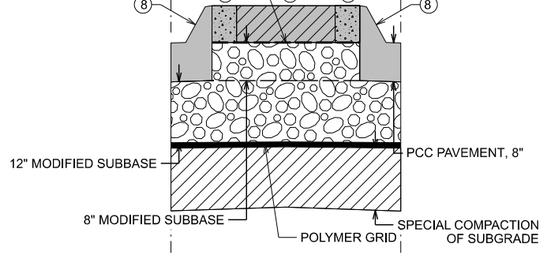
NOTES

NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER, SUCH AS INTERSECTIONS.

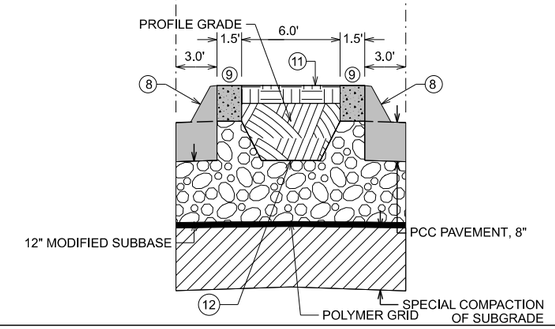


1 B.1 TYPICAL SECTION - ALBURNETT ROAD 2-LANE 44' B-B
NO SCALE

ALBURNETT ROAD 2-LANE 44' B-B	
PCC PAVEMENT WITH CURBS	STA 12+53 TO 25+61
	STA 30+62 TO 33+50
RAISED CONCRETE MEDIAN	STA 24+40 TO STA 24+59
	STA 25+21 TO STA 25+30
	STA 25+40 TO STA 25+49
	STA 27+46 TO STA 27+61
	STA 31+62 TO STA 31+77
	STA 33+36 TO STA 33+50
RAISED EARTH MEDIAN	STA 24+59 TO STA 25+21
	STA 25+49 TO STA 27+46
	STA 31+77 TO STA 33+36



2 B.1 TYPICAL SECTION - RAISED CONCRETE MEDIAN
NO SCALE



3 B.1 TYPICAL SECTION - RAISED EARTH MEDIAN
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57						
			FINAL PLANS	5/13/2026		
MARK:			REVISION	DATE	BY	
Engineer:	MGB	Checked By:	DMS			
Technician:	KMM	Date:	5/8/2026	T-R-S:		
Project No:	116.0663	Sheet	B.1			

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TYPICAL SECTIONS & PAVEMENT DETAILS

CITY OF MARION, IOWA

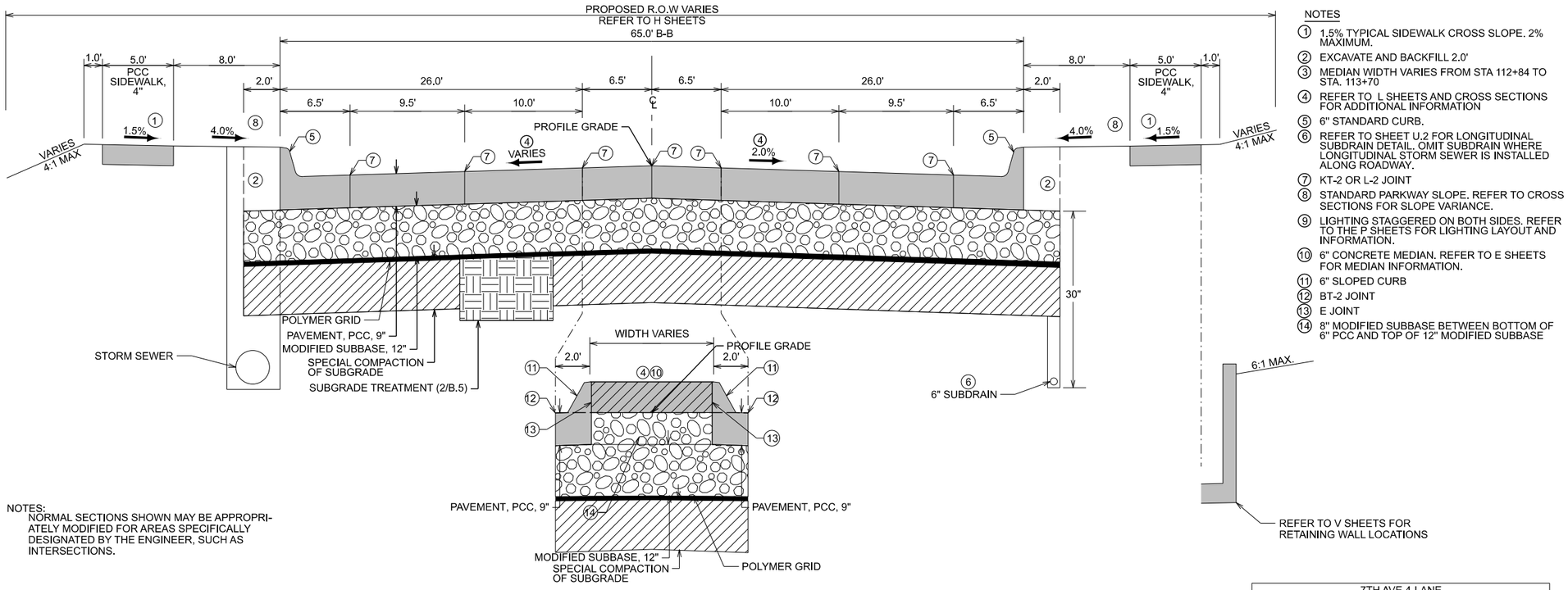
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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet B.1

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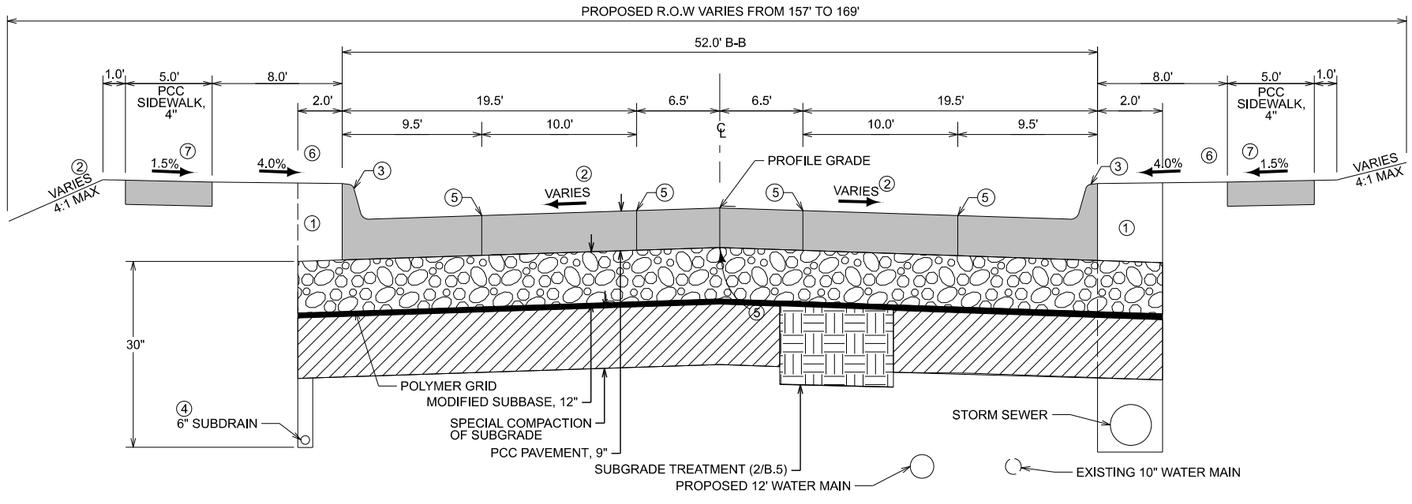
NOTES:
NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER, SUCH AS INTERSECTIONS.

NOTES
1. 1.5% TYPICAL SIDEWALK CROSS SLOPE. 2% MAXIMUM.
2. EXCAVATE AND BACKFILL 2.0'
3. MEDIAN WIDTH VARIES FROM STA 112+84 TO STA. 113+70
4. REFER TO L SHEETS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION
5. 6" STANDARD CURB.
6. REFER TO SHEET U.2 FOR LONGITUDINAL SUBDRAIN DETAIL. OMIT SUBDRAIN WHERE LONGITUDINAL STORM SEWER IS INSTALLED ALONG ROADWAY.
7. KT-2 OR L-2 JOINT
8. STANDARD PARKWAY SLOPE. REFER TO CROSS SECTIONS FOR SLOPE VARIANCE.
9. LIGHTING STAGGERED ON BOTH SIDES. REFER TO THE P SHEETS FOR LIGHTING LAYOUT AND INFORMATION.
10. 6" CONCRETE MEDIAN. REFER TO E SHEETS FOR MEDIAN INFORMATION.
11. 6" SLOPED CURB
12. BT-2 JOINT
13. E JOINT
14. 8" MODIFIED SUBBASE BETWEEN BOTTOM OF 6" PCC AND TOP OF 12" MODIFIED SUBBASE

1 / B.2 TYPICAL SECTIONS - 7TH AVE 4-LANE 65' B-B WITH RAISED MEDIAN AND LEFT TURN LANE PCC PAVEMENT WITH CURBS
NO SCALE

7TH AVE 4-LANE	
65' B-B WITH RAISED MEDIAN AND LEFT TURN LANE PCC PAVEMENT WITH CURBS	STA 107+99 TO STA 109+81
	STA 112+84 TO STA 113+70
52' B-B PCC PAVEMENT WITH CURBS	STA 114+60 TO STA 115+72

NOTES:
NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER, SUCH AS INTERSECTIONS.



NOTES
1. EXCAVATE AND BACKFILL 2.0'
2. REFER TO L SHEETS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION
3. 6" STANDARD CURB.
4. REFER TO DETAIL 4040.231 CASE B, TYPE 1. OMIT SUBDRAIN WHERE LONGITUDINAL STORM SEWER IS INSTALLED ALONG ROADWAY.
5. KT-2 OR L-2 JOINT
6. STANDARD PARKWAY SLOPE. REFER TO CROSS SECTIONS FOR SLOPE VARIANCE.
7. 1.5% TYPICAL SIDEWALK CROSS SLOPE. 2% MAXIMUM.

2 / B.2 TYPICAL SECTIONS - 7TH AVE 4-LANE 52' B-B PCC PAVEMENT WITH CURBS
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/8/2026
Project No: 116.0663 | Sheet B.2

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TYPICAL SECTIONS & PAVEMENT DETAILS

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

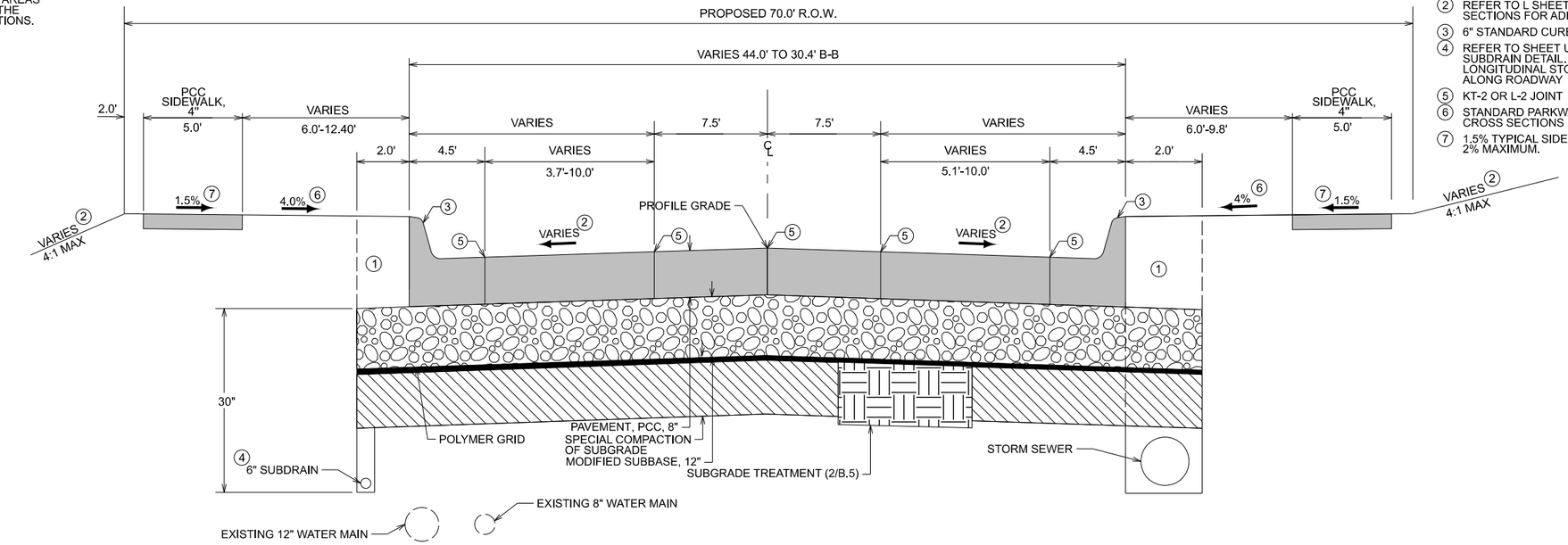
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Project No: 116.0663
Sheet B.2

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NOTES

NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER, SUCH AS INTERSECTIONS.



NOTES

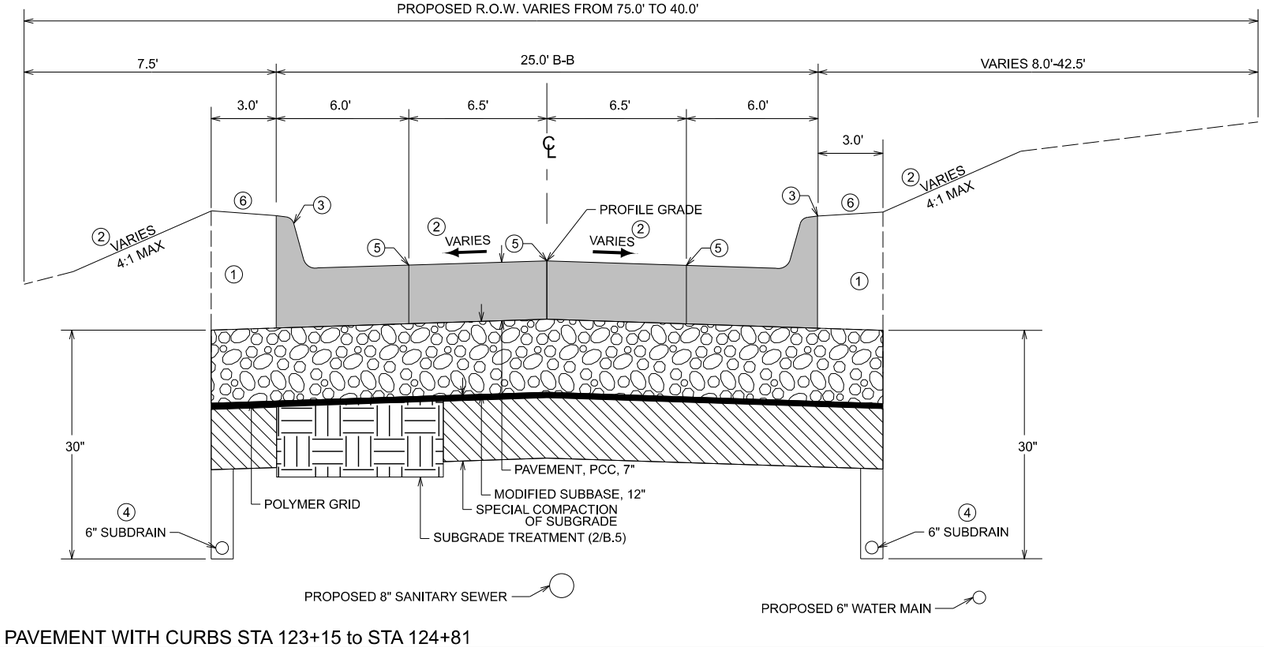
1. EXCAVATE AND BACKFILL 2.0'
2. REFER TO L SHEETS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION
3. 6" STANDARD CURB
4. REFER TO SHEET U.2 FOR LONGITUDINAL SUBDRAIN DETAIL. OMIT SUBDRAIN WHERE LONGITUDINAL STORM SEWER IS INSTALLED ALONG ROADWAY
5. KT-2 OR L-2 JOINT
6. STANDARD PARKWAY SLOPE. REFER TO CROSS SECTIONS FOR SLOPE VARIANCE
7. 1.5% TYPICAL SIDEWALK CROSS SLOPE. 2% MAXIMUM.

1 B.3 TYPICAL SECTIONS - 8TH AVE 2-LANE 44' B-B PCC PAVEMENT WITH CURBS STA 215+55 to STA 220+59

NO SCALE

NOTE

NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER, SUCH AS INTERSECTIONS.



NOTES

1. EXCAVATE AND BACKFILL 2.0'
2. REFER TO L SHEETS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION
3. 6" STANDARD CURB
4. REFER TO SHEET U.2 FOR LONGITUDINAL SUBDRAIN DETAIL. OMIT SUBDRAIN WHERE LONGITUDINAL STORM SEWER IS INSTALLED ALONG ROADWAY.
5. KT-1 OR L-1 JOINT
6. 1.5% PARKWAY SLOPE 3.0' FROM BOC

2 B.3 TYPICAL SECTIONS - 2ND ST 2-LANE 25' B-B PCC PAVEMENT WITH CURBS STA 123+15 to STA 124+81

NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	

FINAL PLANS

REVISION

Engineer: MGB Checked By: DMS

Technician: KMM Date: 5/8/2026 T-R-S:

Project No: 116.0663

Sheet B.3

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TYPICAL SECTIONS & PAVEMENT DETAILS

CITY OF MARION, IOWA

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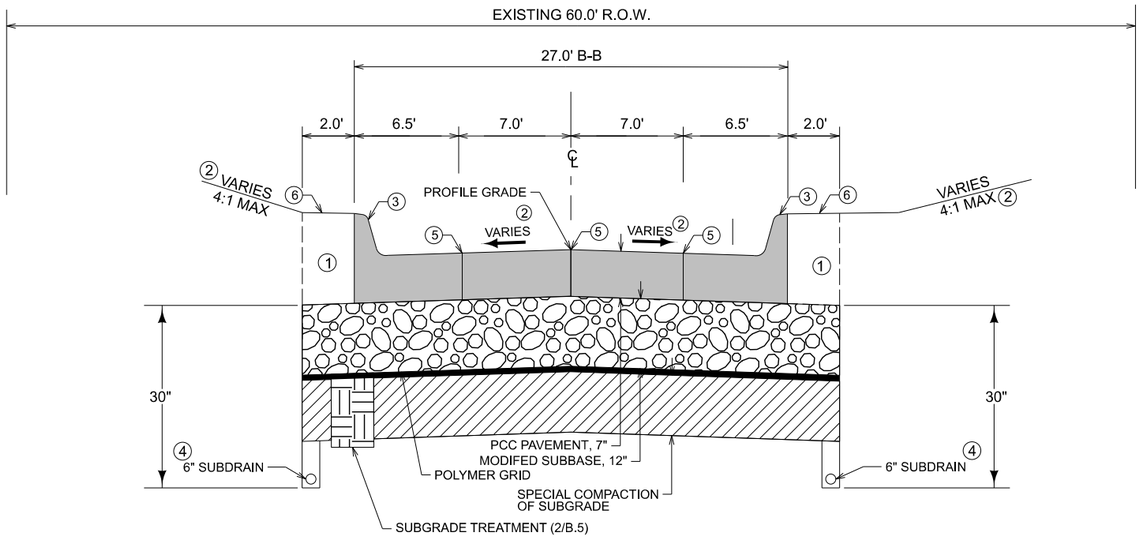
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Sheet B.3

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NOTES

NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER, SUCH AS INTERSECTIONS



NOTES

1. EXCAVATE AND BACKFILL 2.0'
2. REFER TO L SHEETS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION
3. 6" STANDARD CURB
4. REFER TO SHEET U.2 FOR LONGITUDINAL SUBDRAIN DETAIL. OMIT SUBDRAIN WHERE LONGITUDINAL STORM SEWER IS INSTALLED ALONG ROADWAY.
5. KT-1 OR L-1 JOINT
6. 1.5% PARKWAY SLOPE 2.0' FROM BOC

1 / B.4 TYPICAL SECTIONS - 9TH AVE 2-LANE 27' B-B PCC PAVEMENT WITH CURBS STA 320+41 to STA 321+94

NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/8/2026

Project No: 116.0663 Sheet B.4

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TYPICAL SECTIONS & PAVEMENT DETAILS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

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Project No: 116.0663

Sheet B.4

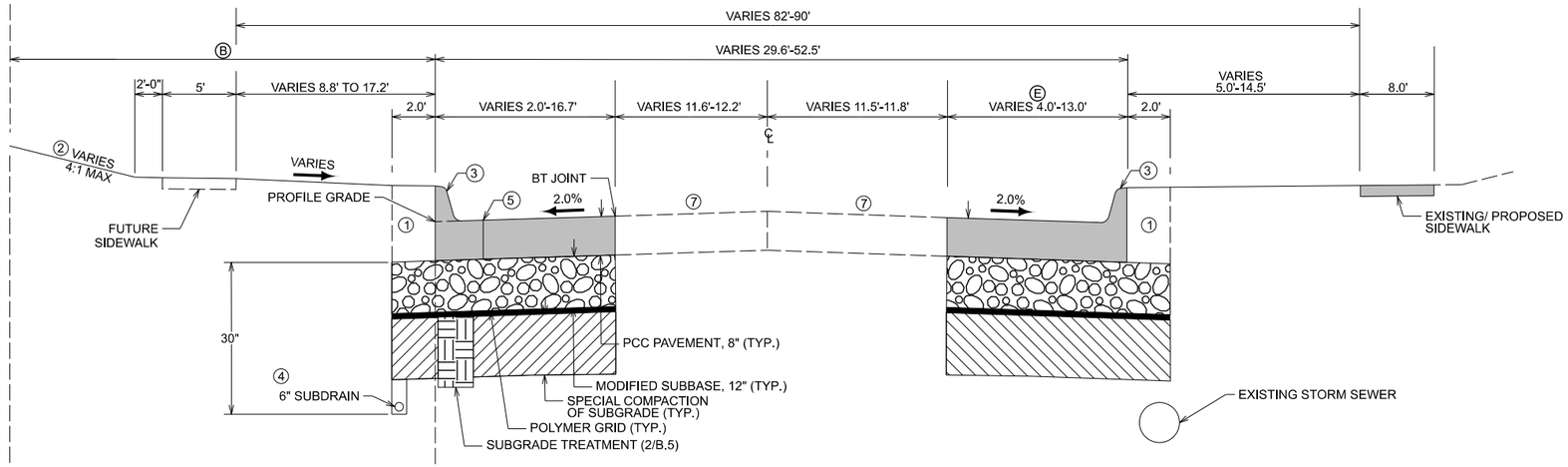
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NOTES

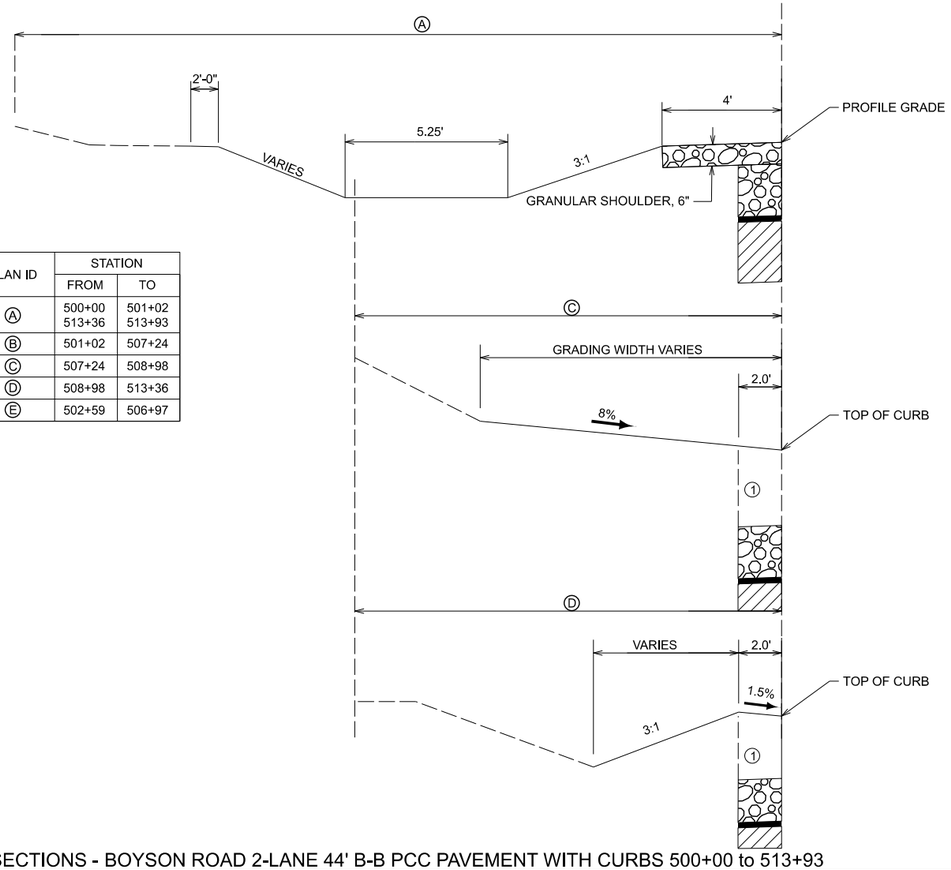
1. EXCAVATE AND BACKFILL 2.0'
2. REFER TO L SHEETS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION
3. 6" STANDARD CURB
4. REFER TO SHEET U.2 FOR LONGITUDINAL SUBDRAIN DETAIL. OMIT SUBDRAIN WHERE LONGITUDINAL STORM SEWER IS INSTALLED ALONG ROADWAY
5. POSSIBLE KT-2 OR L-2 JOINT (SEE L SHEETS)
6. STANDARD PARKWAY SLOPE. REFER TO CROSS SECTIONS FOR SLOPE VARIANCE
7. MATCH EXISTING PAVEMENT CROSS SLOPE

NOTE

NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER, SUCH AS INTERSECTIONS.



TYPICAL CROSS SECTION - BOYSON ROAD
2-LANE 44' B-B
PCC PAVEMENT WITH CURBS



PLAN ID	STATION	
	FROM	TO
Ⓐ	500+00 513+36	501+02 513+93
Ⓑ	501+02	507+24
Ⓒ	507+24	508+98
Ⓓ	508+98	513+36
Ⓔ	502+59	506+97

1/B.5 TYPICAL SECTIONS - BOYSON ROAD 2-LANE 44' B-B PCC PAVEMENT WITH CURBS 500+00 to 513+93
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/8/2026
Project No: 116.0663 Sheet B.5

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TYPICAL SECTIONS & PAVEMENT DETAILS

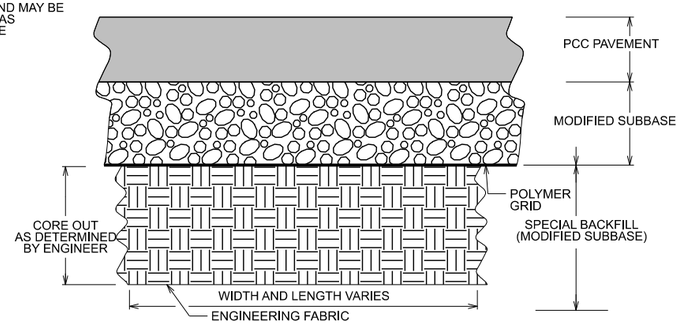
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CEDAR RAPIDS, IA 52404
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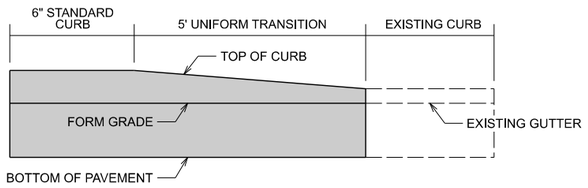
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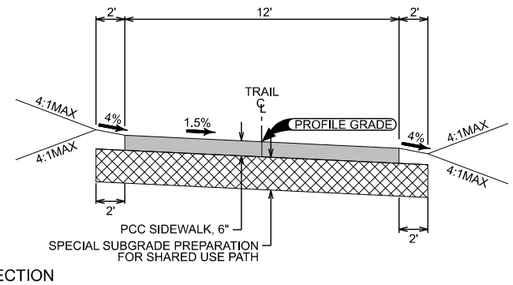
NOTE:
THIS SECTION IS TYPICAL ONLY, AND MAY BE APPROPRIATELY MODIFIED IN AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER.



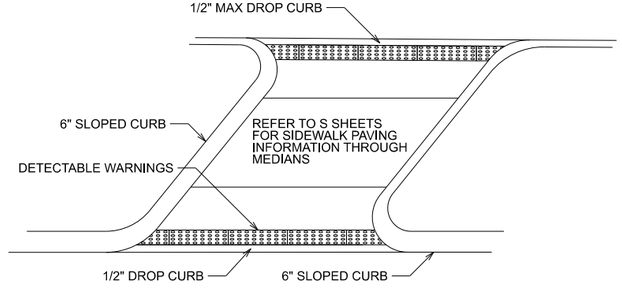
1 B.6 UNSUITABLE OR UNSTABLE MATERIAL (SUBGRADE TREATMENT)
NO SCALE



2 B.6 CURB TRANSITIONS
NO SCALE

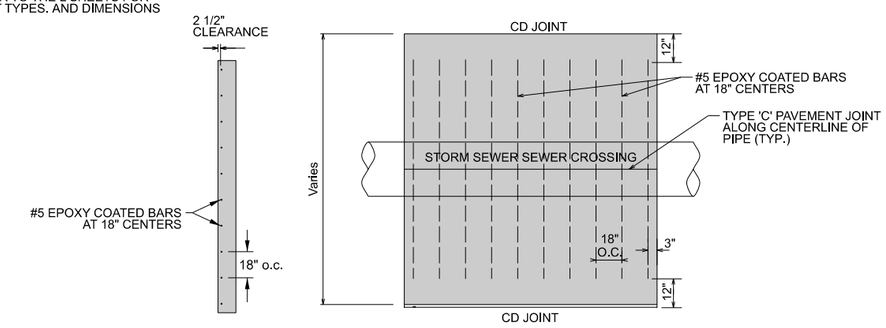


3 B.6 TRAIL PAVING TYPICAL SECTION
N.T.S

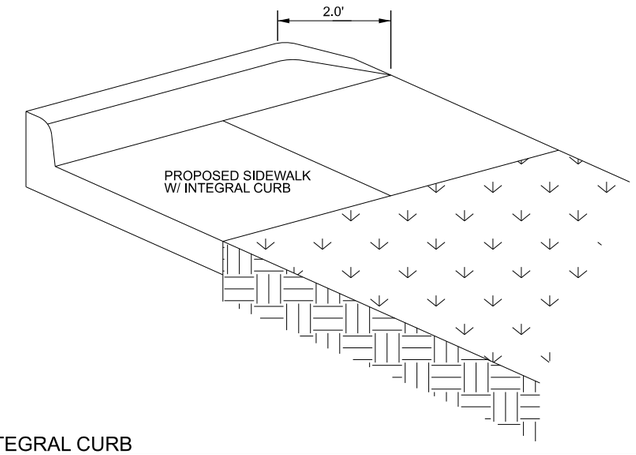


4 B.6 MEDIAN REFUGE ISLAND
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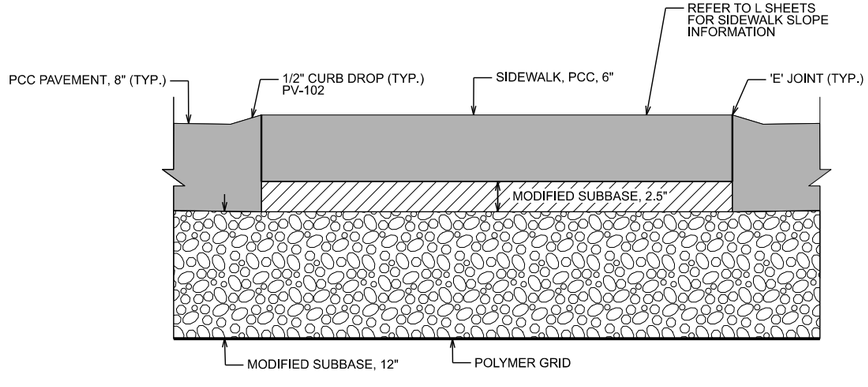
NOTES:
1. THE CENTER OF THE REINFORCING BARS SHALL BE PLACED OVER THE CENTER OF THE PIPE CROSSINGS.
2. REFER TO THE L SHEETS FOR JOINT TYPES. AND DIMENSIONS



5 B.6 SINGLE REINFORCED PAVEMENT
NO SCALE



6 B.6 INTEGRAL CURB
NO SCALE



7 B.6 RAISED MEDIAN - 6" PCC SIDEWALK
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/8/2026
Project No: 116.0663 Sheet B.6

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TYPICAL SECTIONS & PAVEMENT DETAILS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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Project No: 116.0663
Sheet B.6

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GENERAL NOTES

1. ACCESS AND CONSTRUCTION LIMITS
ALL ACTIVITIES INCLUDING MATERIAL AND EQUIPMENT STORAGE MUST BE MAINTAINED WITHIN THE DEFINED CONSTRUCTION AREAS WITHOUT ENCROACHMENT ONTO SIDEWALKS. PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES ON SIDEWALKS EXCEPT THOSE AREAS TO BE RECONSTRUCTED. DAMAGE TO SIDEWALKS AND PRIVATE PROPERTY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. USE OF PRIVATE PROPERTIES SHALL BE ONLY WITH WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CITY SHALL RECEIVE A COPY OF SAID WRITTEN AGREEMENT.

2. TESTING AND QUALITY CONTROL
THE CITY MAY CONDUCT SOIL TESTING TO ASSURE COMPACTION AS SPECIFIED IN ADDITION TO THE TESTING REQUIRED BY THE CONTRACTOR. IF INITIAL TESTS DO NOT INDICATE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS, THE CONTRACTOR WILL BEAR THE COST OF RE-WORK AND RE-TESTING. THE CITY WILL CONDUCT FIELD TESTING ON PCC. WATERMAIN TESTING SHALL BE COORDINATED WITH THE MARION WATER DEPARTMENT.

3. NOTIFICATIONS
PROVIDE WRITTEN NOTIFICATION TO THE CITY OF MARION AND ALL PROPERTIES, BUSINESS, AND TENANTS THAT WILL BE AFFECTED BY THE CONSTRUCTION, ESPECIALLY WITHIN CLOSURE AREAS; AT LEAST 7 CALENDAR DAYS IN ADVANCE OF ACCESS AND ROAD RESTRICTION. THE ENGINEER SHALL APPROVE NOTIFICATIONS (DOOR HANGERS) PRIOR TO DISTRIBUTION. WORK SHALL NOT BEGIN UNLESS NOTIFICATION HAS BEEN PROVIDED IN ACCORDANCE WITH THESE REQUIREMENTS. THE DOOR HANGERS SHALL INCLUDE, BUT ARE NOT LIMITED TO: CONTRACTOR'S NAME AND EMERGENCY CONTACT NUMBERS, DESCRIPTION OF THE CONTRACTOR'S ACTIVITIES, DATE OF CONSTRUCTION ACTIVITIES IN THE AREA, ESTIMATED DURATION OF CONSTRUCTION ACTIVITIES IN THE AREA, DESCRIPTION/LOCATION OF AVAILABLE RESIDENTIAL PARKING, ACCESS CLOSURES AND DETOURS. THE CITY MAY DO ADDITIONAL NOTIFICATIONS BY MAILING, E-MAIL, NEWSLETTER, SOCIAL MEDIA, ETC. BASED ON CONTRACTOR'S APPROVED SCHEDULE.

4. DISPOSAL OF WASTE MATERIAL
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL MATERIAL NOT TO BE INCORPORATED INTO THE PROJECT. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. KEEP CONSTRUCTION DEBRIS AND DIRT OFF OF THE ADJACENT PROPERTIES AND STREETS.

5. PROTECTION OF WORK
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE WORK SITE TO INSURE SAFETY OF THE PUBLIC AND TO PREVENT DAMAGE TO THE WORK. PROVIDE AND MAINTAIN FENCING, BARRICADES, SIGNING, AND TRAFFIC CONTROL SHALL BE. EXERCISE CARE WHEN WORKING AROUND TREES THAT ARE NOT TO BE REMOVED TO AVOID UNNECESSARY DAMAGE TO THE ROOT SYSTEMS. PROTECT ANY PROPERTY PINS ENCOUNTERED. IF DISTURBED, THEY SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. ALL FIXTURES AND TREES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. TREE BRANCHES WHICH INTERFERE WITH CONSTRUCTION ACTIVITY MAY BE NEATLY TRIMMED AS NECESSARY WITH THE ENGINEER'S APPROVAL. DAMAGE TO EXISTING PAVEMENT DUE TO REMOVALS BY THE CONTRACTOR SHALL BE REPAIRED AT NO COST WITH AN APPROVED PCC AND/OR HMA MIX AS DETERMINED BY THE ENGINEER.

6. TRAFFIC CONTROL
REFER TO THE PROPOSED TRAFFIC CONTROL AND STAGING IN THE PLANS. THE CONTRACTOR MAY SUBMIT AN ALTERNATE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. ALLOW 5 DAYS FOR REVIEW BY THE ENGINEER. ADDITIONAL SIGNAGE WHICH MAY BE NECESSARY DURING THE COURSE OF WORK DUE TO TRAFFIC CONDITIONS SHALL BE PROVIDED AT THE CONTRACTOR'S COST. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, PLACING, AND REMOVING ALL SIGNS AND TRAFFIC CONTROL DEVICES. ONE LANE OF TRAFFIC MUST BE MAINTAINED ON 7TH AVE, 8TH AVE, AND BOYSON ROAD AT ALL TIMES. ACCESS TO ALL BUSINESSES MUST BE COORDINATED PRIOR TO STREET CLOSURES.

7. EROSION CONTROL
THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL SIGN THE NPDES CO-PERMITTEE FORM PRIOR TO BEGINNING WORK AND COMPLY WITH THE NPDES AND SWPPP FOR THIS PROJECT.

8. SIGN REMOVALS
REMOVE AND STOCKPILE STREET SIGNS WITHIN THE CONSTRUCTION LIMITS WHICH CONFLICT WITH CONSTRUCTION. ALL REMOVED SIGNS AND STREET MARKERS SHALL BE REPLACED BY THE CONTRACTOR IN THE SAME LOCATION OR AS APPROVED BY THE ENGINEER. SIGNS DAMAGED DURING REMOVAL AND/OR STOCKPILING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. "STOP" AND "YIELD" SIGNS MAY NOT BE REMOVED UNTIL TEMPORARY SIGNS ARE PLACED.

9. RESTORATION
THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF DISTURBED AREAS INCLUDING GRASS AREAS BEHIND CURBS, DRIVEWAYS AND SIDEWALKS. RESTORATION SHALL INCLUDE BUT MAY NOT BE LIMITED TO SWEEPING, RAKING, AND RE-SEEDING IF NECESSARY. DISTURBED AREAS SHALL BE RESTORED WITHIN 5 WORKING DAYS FOLLOWING COMPLETION OF FINAL GRADING AND SPREADING TOPSOIL.

10. UTILITIES
THE LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE TAKEN FROM THE EXISTING PUBLIC RECORDS, AND AS SUCH ARE NOT GUARANTEED. THE EXACT LOCATION, SIZE, AND ELEVATION OF ALL UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLAN MAY BE PRESENT AND TO PROTECT ALL UTILITIES. LOCATION REQUESTS CAN BE MADE BY CALLING 1-800-292-8989 OR 811. REFER TO THE A SHEETS FOR UTILITY CONTACT INFORMATION AND UTILITY QUALITY INFORMATION.

    NO CLAIMS FOR ADDITIONAL COMPENSATION OR TIME TO THE CONTRACTOR WILL BE ALLOWED FOR ANY INTERFERENCE OR DELAY CAUSED BY UTILITY WORK. UTILITY REPRESENTATIVES ARE TO BE CONTACTED WHEN WORKING NEAR THEIR UTILITIES.

11. COMPLETE ALL CONSTRUCTION IN ACCORDANCE WITH CURRENT EDITION OF IOWA DOT STANDARD SPECIFICATIONS AND PLANS AND SPECIFICATIONS FOR THIS PROJECT.

12. LOCATION OF EXISTING UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES SHOWN ARE FROM AVAILABLE SURVEYS AND RECORDS. THESE LOCATIONS SHOULD BE CONSIDERED AS APPROXIMATE ONLY, WITH POSSIBILITY THAT OTHER UTILITIES OR UNDERGROUND FEATURES MAY EXIST. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS.

13. NOTIFY UTILITY COMPANIES PRIOR TO COMMENCING WORK. AVOID DAMAGE TO UTILITIES AND UNDERGROUND FEATURES DURING CONSTRUCTION. REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OPERATIONS AT CONTRACTOR'S EXPENSE.

14. COORDINATE CONSTRUCTION OPERATIONS AND COOPERATE WITH UTILITY COMPANIES WITH RESPECT TO RELOCATING ANY CONFLICTING FACILITIES. COSTS FOR LOCATING EXISTING UTILITIES, COORDINATING RELOCATION WORK, PROVIDING TEMPORARY SUPPORTS, AND STAGING CONSTRUCTION TO ACCOMMODATE THE RELOCATION OF UTILITIES IS INCIDENTAL TO CONSTRUCTION.

15. PROVIDE EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION, EROSION AND DUST POLLUTION WITHIN CONSTRUCTION LIMITS AND ANY OFF-SITE AREAS USED FOR THIS PROJECT. COMPLY WITH SOIL EROSION CONTROL REQUIREMENTS OF IOWA CODE AND LOCAL ORDINANCES.

16. PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETED.

17. CONSTRUCTION LIMITS ARE THE RIGHT-OF-WAY AND TEMPORARY EASEMENT AREAS SHOWN ON THESE PLANS.

18. CONTRACTOR TO CONFIRM EXISTENCE OF IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION. CONTRACTOR TO LOCATE AND MAKE PROPER ACCOMMODATIONS TO PROTECT OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.

19. CONTRACTOR RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING ALL ACCESSES TO THE CONSTRUCTION LIMITS. THE ACCESSES MUST BE ADEQUATELY SIZED AND PROPERLY SURFACED FOR UTILIZATION BY CONSTRUCTION VEHICLES AND INCLUDE PROVISIONS TO MAINTAIN POSITIVE DRAINAGE.

20. COORDINATE THE CONSTRUCTION TO MINIMIZE THE DISRUPTIONS TO THE ADJACENT PROPERTIES. ANY AREAS DISTURBED BY CONSTRUCTION OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE REPAIRED AND RESTORED AT THE CONTRACTOR'S EXPENSE.

21. DO NOT RESTRICT DRAINAGE CHANNELS AND PROTECT ALL EXISTING DRAINAGE STRUCTURES. CONTRACTOR FULLY LIABLE FOR ALL DAMAGES TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN THE HANDLING OF STORM WATER FLOWS DURING CONSTRUCTION. ANY EXTRA GRADING WORK NEEDED TO MAINTAIN POSITIVE DRAINAGE WITHIN THE CONSTRUCTION LIMITS IS INCIDENTAL TO CONSTRUCTION.

22. REPAIR ALL FIELD/DRAIN TILES THAT ARE ENCOUNTERED DURING CONSTRUCTION AS SPECIFIED. RECORD THE EXISTING TYPE, SIZE, LOCATION AND DEPTH OF ALL FIELD/DRAIN TILES ENCOUNTERED AND REPAIRED DURING CONSTRUCTION. PROVIDE DATA TO THE ENGINEER FOR INCORPORATION INTO THE RECORD DRAWINGS.

23. PROTECT AND KEEP DEBRIS DEPOSITED BY THE CONSTRUCTION OFF OF ADJACENT PROPERTIES OUTSIDE THE EASEMENT AREA AND STREETS. REMOVE AND REPAIR ANY DAMAGE WITHOUT ADDITIONAL COMPENSATION.

24. COMPLETELY REMOVE AND DISPOSE OF TREES, SHRUBS AND VEGETATION DESIGNATED FOR REMOVAL ON THE PLANS. DISPOSE OF IN ACCORDANCE WITH SPECIFICATIONS.

25. CONTRACTORS SHALL SATISFY THEMSELVES PRIOR TO SUBMISSION OF BIDS AS TO THE SOIL CONDITIONS.

26. CONTRACTOR SHALL NOT START ANY WORK UNTIL THE TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE ENGINEER.

27. ADJUST ALL MANHOLES, VALVE PITS, VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.

28. ANY AND ALL EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PROPERLY BARRICADED. DO NOT STORE EQUIPMENT AND/OR MATERIALS WITHIN PUBLIC RIGHT OF WAY ON STREETS OPEN TO TRAFFIC. PROVIDE AREAS AS NEEDED FOR STORAGE OF EQUIPMENT AND/OR MATERIALS.

29. REMOVE THE EXISTING PAVEMENT AREAS TO THE NEAREST EXISTING JOINT OR AS DIRECTED BY THE ENGINEER.

30. CONCRETE MATURITY TESTING SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL PCC PAVING ITEMS AND SHALL BE INCLUDED IN THE COST OF THOSE ITEMS.

31. COMPACT ALL TRENCH BACKFILL, UNDER PAVED SURFACES, AND WITHIN RIGHT-OF-WAY TO 95% STANDARD PROCTOR DENSITY.

32. SURFACE RESTORATION INCLUDES THE REMOVAL OF ALL GRANULAR MATERIAL FROM THE TOP 6 INCHES OF TOPSOIL. THIS WORK IS INCIDENTAL TO CONSTRUCTION.

33. ASSIST ENGINEER'S FIELD REPRESENTATIVE WITH DAILY RECORD KEEPING INCLUDING ALL NECESSARY FIELD LOCATIONS AND MEASUREMENTS. CONTRACTOR REQUIRED TO ATTEND FINAL AND INTERMEDIATE INSPECTIONS OF PROJECT, OPEN ALL MANHOLES FOR INSPECTION.

34. DIMENSIONS, STREET LOCATIONS, UTILITIES, AND GRADING ARE BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. REPORT ANY SUCH CHANGES OR CONFLICTS BETWEEN THE PLAN AND FIELD CONDITIONS TO PROJECT ENGINEER IMMEDIATELY.

35. COORDINATE WITH SUPS FOR ALL TEMPORARY MAIL DELIVERY AND PICKUP AND ANY IMPACTS TO DELIVERY AND PICKUP FOR PHASED CONSTRUCITON AND ROAD CLOSURES.

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TEMPORARY STREAM CROSSING, CAUSEWAY, OR EQUIPMENT PAD
STANDARD ROAD PLAN EW-401 IS LISTED IN TABULATION 105-4; HOWEVER, IT IS INCLUDED FOR INFORMATION PURPOSES ONLY SINCE IT IS AN OPTION. NO QUANTITIES ASSOCIATED WITH CONSTRUCTING EW-401 ARE INCLUDED IN ANY BID ITEMS.

MARK	DATE	BY
	FINAL PLANS	5/13/2026	
	REVISION	DATE	BY

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB | Checked By: DMS
Technician: KMM | Date: 5/13/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet C.1

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GENERAL NOTES

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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet C.1

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: Earmark, FA
Division 2: Non-participating
Division 3: Non-participating Water
Division 4: Non-participating Sewer

Note: All included work listed within the Iowa DOT Standard Specifications for each Bid Item shall apply. If additional work items are listed in the Estimate Reference Information, they shall be added to the work already included in the Iowa DOT Standard Specifications listed for that Bid Item and are not necessarily added by Special Provision.

Item no.	Item Code	Item	Unit	Estimated Quantities					Estimate Reference Notes
				Division 1 (Earmark, FA)	Division 2 (Non-participating)	Division 3 (Water)	Division 4 (Sewer)	Total	
1	2101-0850001	CLEARING AND GRUBBING	ACRE	2.4				2.4	See Tabulation 110-17 for locations and approximate sizes. Any damage to existing facilities due to clearing and grubbing operations beyond plan identified work areas shall be repaired at the Contractor's expense. Disposal of all wood material generated as a result of clearing and grubbing activities shall be in accordance with the Iowa Department of Agriculture and Land Stewardship's Emerald Ash Borer (EAB) Quarantine Order.
2	2101-0850002	CLEARING AND GRUBBING	UNIT	783.7				783.7	Same as previous item
3	2102-2625001	EMBANKMENT -IN-PLACE, CONTRACTOR FURNISHED	CY	41433				41433	Provide sampling, testing, and a proposed borrow report to the Engineer as per Materials I.M. 545. No payment will be made for overhaul. Time for settlement to occur in deep fill embankment zones generally in proximity to the proposed Alburnett Road bridge over Indian Creek shall be considered in construction scheduling. Site grades shall be raised no more than 10 feet during initial grading stage to allow underlying soils to consolidate and gain strength before placing remaining embankment fill. Allow underlying soils to consolidate until approximately 90 percent of the primary consolidation has occurred, typically 4 to 8 weeks may be required for this degree of consolidation to occur. Following placement and compaction of deep fill embankments generally in proximity to the proposed Alburnett Road bridge over Indian Creek, place settlement monuments at locations determined by the Engineer at approximate 200' spacing (2 minimum each north and south of the bridge, 4 minimum total monuments to be placed). Settlement shall be monitored by elevation survey at least once per week until successive settlement measurements are not increasing at a rate considered unacceptable to proceed with construction activities such as finish grading and paving as recommended by the Engineer. Provide settlement measurements to a third party geotechnical testing facility and the Engineer for evaluation. A geotechnical engineering report has been completed for this project and is available upon request.
4	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	13645				13645	When the quantity of fill material required is not available within the limits of the project cross-sections, the Contractor shall make up the deficiency from borrow area(s) provided by the Contractor and approved by the Engineer. Item includes 9,150 CY of CUT south of the proposed bridge over Indian Creek, 2,378 CY of CUT from the proposed bridge over Indian Creek to existing Alburnett Rd, and 2,117 CY of CUT along Boyson Rd (TOTAL CUT = 13,645 CY), 23,856 CY of FILL south of the proposed bridge over Indian Creek, 17,087 CY of FILL from the proposed bridge over Indian Creek to existing Alburnett Rd, and 490 CY of FILL along Boyson Rd (TOTAL FILL = 41,433 CY including 30% shrinkage factor.) Project Balance = 27,788 CY BORROW. Dispose of additional borrow not utilized. The estimated quantity is a comparison of two computer generated models and does not include pipe or structure excavations, pavements, subgrade, subdrains, or granular surfacing. Removal of existing retaining wall materials to the grading limits is included with this item, refer to the Q Sheets for locations of retaining wall removals. Refer to the W and X Sheets for cross sections. Refer to the RR Sheets for grading contour plans. No payment will be made for overhaul.
5	2102-2710080	EXCAVATION, CLASS 10, UNSUITABLE OR UNSTABLE MATERIAL	CY	816				816	Item to be used if poor soils are encountered during construction. Item shall only be used upon approval by the Engineer. There will be no additional compensation for overhaul of excavated materials. Properly dispose of all unsuitable or unstable material offsite. Refer to the Subgrade Treatment details in the B Sheets, dimensions may vary depending on field conditions. Estimated quantity is based on approximately 25% of the subgrade preparation area requiring 6 inches of below grade excavation. The Engineer shall measure the actual quantity in the field. Engineer and contractor shall agree to actual quantities based on encountered conditions.
6	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	1626				1626	Quantity for this item is based on earthwork balance that is expected to be removed from the project site along Boyson Rd (CUT = 2,116 CY, FILL = 490 CY, Balance = 1626 CY Waste). If excess cut material from Boyson Rd is incorporated as fill at other locations for the project, this item will not be measured for payment.
7	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY	136				136	This is a contingency item and shall only be used as directed by the Engineer for excavation of boulders or rock fragments encountered during construction. Estimated quantity is based on 1% of the total CUT volume requiring excavation of boulders and rock fragments. There will be no additional compensation for overhaul of excavated materials.
8	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	50				50	Item to be used if unsuitable debris is encountered in soils during excavation activities. Unsuitable debris includes but may not be limited to metal, glass, miscellaneous rubble, and other materials not suitable for earthwork construction or typical disposal offsite. When unsuitable debris is encountered, notify the Engineer to establish the limits of unsuitable waste material and determine the volume quantity measured for payment. No payment will be made for quantity of unsuitable waste material that is not brought to the Engineer's attention prior to hauling and disposal offsite. Payment includes hauling and any associated dumping fees. There will be no additional compensation for overhaul of excavated materials.
9	2104-2710020	EXCAVATION, CLASS 10, CHANNEL	CY	3954				3954	Refer to the V Sheets for information.
10	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	5975				5975	Refer to the RR Sheets. Estimated quantity is based on furnishing and spreading 6" of imported topsoil at all areas of proposed seeding not inclucing seeding within Parcel 27 or the wetland grass seeding area with amended topsoil. Estimated quantity includes a 40% shrink factor.
11	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	3077				3077	Refer to the RR Sheets. Estimated quantity is based on stripping and respreading 6" of topsoil at areas of proposed seeding within Parcel 27 not including the wetland grass seeding area with amended topsoil.
12	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL	CY	41433				41433	Contractor shall provide process control sampling, testing, and inspection as described in Materials I.M. 540 and in accordance with 2107.03, P.
13	2109-8225100	SPECIAL COMPACTION OF SUBGRADE	STA	36.7				36.7	Special compaction will only be required in areas of CUT. Contractor shall perform process control sampling, testing, and inspection according to the provisions of Article 2107.03, P.
14	2113-0001000	SUBGRADE STABILIZATION MATERIAL, MODIFIED SUBBASE	SY	2448				2448	This item is for modified subbase for replacement of unsuitable or unstable material subgrade treatment. Estimated quantity is based on 25% of the subgrade preparation area requiring 6 inches of below grade excavation. Measurement for this item shall be by area calculation in the field of actual unsuitable or unstable material subgrade treatment and agreed upon between the Contractor and Engineer. If additional depth beyond 6 inches is required to replace unsuitable or unstable material, the measurement will be calculated based on the equivalent 6 inch depth.
15	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	23658.7				23658.7	Refer to the B Sheets for locations of polymer grid. Use of either biaxial polymer grid or triaxial polymer grid is acceptable.
16	2115-0100000	MODIFIED SUBBASE	CY	8209.9				8209.9	Refer to the B Sheets for locations and information. 12" of Modified Subbase will be required under all street paving and shall extend 2-feet beyond the edge of pavement. 6" of Modified Subbase will be required under all 7" PCC driveways. 8" of Modified Subbase will be required under Median P.C. Concrete. 2.5" of Modified Subbase to be included under median sidewalks.
17	2121-7425010	GRANULAR SHOULDERS, TYPE A	TON	14.02				14.02	Refer to the B Sheets for details and information. Refer to the Tabulation 112-9 in the C Sheets for locations
18	2123-7450020	SHLD FINISHING, EARTH	STA	94.00				94.00	Includes backfill and finish grading behind all curbs not including median curbs.
19	2213-7100400	RELOCATION OF MAIL BOXES	EACH	3				3	Refer to the Q Sheets for locations of mailboxes to be permanently relocated. Refer to the U Sheets for mailbox installation and location details. This item includes permanent mailbox relocations as well as temporary mailbox relocations along Boyson Rd to maintain postal delivery throughout construction. Additional temporary mailbox relocations to be determined by the Contractor depending on construction staging and property accesses are incidental to the bid item for Temporary Traffic Control and shall be coordinated with the residents, property owners, and USPS. All final permanent mailbox locations and temporary mailbox locations shall be coordinated with impacted property owners and residents and the USPS and shall comply with applicable local, State, and Federal regulations. --- Method of Measurement: Each mailbox relocated will be counted. --- Basis of Payment: Payment will be at the Contract unit price per each mailbox that is relocated. --- Materials: Reuse existing mailboxes and posts/supports

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Scale: 1"= 20'
Technician: KMM | Date: 5/26/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet C.2

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

ESTIMATE OF QUANTITIES AND TABULATIONS

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Project No: 116.0663

Sheet C.2

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: Earmark, FA
Division 2: Non-participating
Division 3: Non-participating Water
Division 4: Non-participating Sewer

Note: All included work listed within the Iowa DOT Standard Specifications for each Bid Item shall apply. If additional work items are listed in the Estimate Reference Information, they shall be added to the work already included in the Iowa DOT Standard Specifications listed for that Bid Item and are not necessarily added by Special Provision.

Item no.	Item Code	Item	Unit	Estimated Quantities					Estimate Reference Notes
				Division 1 (Earmark, FA)	Division 2 (Non-participating)	Division 3 (Water)	Division 4 (Sewer)	Total	
20	2301-0690201	BRIDGE APPROACH, BR-201	SY	342.3				342.3	Refer to Tab 112-6 for locations. Refer to Standard Road Plan BR-201. This item is to be used for bridge approach pavement at the 8th Ave bridge over Indian Creek if the existing bridge abutment pavement notch is in good condition with written direction as determined by the Engineer. Only BR-201 OR BR-203 is to be used for the bridge approach at 8th Ave, if BR-201 is used, no quantity for BR-203 will be measured or paid for the 8th Ave bridge approach.
21	2301-0690203	BRIDGE APPROACH, BR-203	SY	963.7				963.7	Refer to Tab 112-6 for locations. Refer to Standard Road Plan BR-203 (Moveable Abutment) for details. --- Estimated quantity for Division 2 is to be used for bridge approach pavement at the 8th Ave bridge over Indian Creek if the existing bridge abutment pavement notch is in poor condition and requires replacement with written direction as determined by the Engineer. Only BR-201 OR BR-203 is to be used for the bridge approach at 8th Ave, if BR-203 is used, no quantity for BR-201 will be measured or paid for the 8th Ave bridge approach.
22	2301-1033070	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 7 IN.	SY	1135.0				1135.0	Refer to B Sheets for typical sections. Refer to L Sheets for geometrics, staking, and jointing details. Refer to Tabulation 100-24 and the D and E Sheets for locations and information. Maturity method shall be used for strength testing. Pavements shall be evaluated for smoothness per 2301.03.H.4a for surface corrections of bumps and dips before opening to traffic. Certified Plant Inspection is required. Microtexture shall be applied to all pavement.
23	2301-1033080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.	SY	14649.6				14649.6	Refer to B Sheets for typical sections. Refer to L Sheets for geometrics, staking, and jointing details. Refer to Tabulation 100-24 and the D and E Sheets for locations and information. Maturity method shall be used for strength testing. Pavements shall be evaluated for surface corrections of bumps and dips before opening to traffic. Headers and areas adjacent to existing pavement are to be included. Pavements shall be evaluated for smoothness per 2301.03.H.4a for surface corrections of bumps and dips before opening to traffic. Grinding for smoothness under traffic will not be allowed. Certified Plant Inspection is required. Microtexture shall be applied to all pavement.
24	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.	SY	5166.0				5166.0	Same as previous item
25	2301-4874500	MEDIAN, P.C. CONCRETE, AS PER PLAN	SY	221.7				221.7	This item is for 6" decorative PCC splash pad within raised medians along Alburnett Rd. Concrete shall be integrally colored PCC pavement incidental to this item. Integral color shall be Solomon color 920 Onyx or Scofield Chromix color additive C-34 Dark Grey or similar. Provide a catalog sample color for approval. Refer to Tabulation 112-5 and plan views in the D and E Sheets for locations and information. Refer to the B Sheets for typical section details. Certified Plant Inspection is required.
26	2301-4875006	MEDIAN, P.C. CONCRETE, 6 IN.	SY	274.9				274.9	This item is for concrete within the raised medians along 7th Ave/ Marion Blvd. Refer to Tabulation 112-5 and plan views in the D and E Sheets for locations and information. Refer to the B Sheets for typical section details. Certified Plant Inspection is required.
27	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1				1	Pavement thickness is to be evaluated using pavement cores. The Engineer will determine locations, take possession of the cores after cutting, and perform measurements. The Contractor is responsible for cutting cores.
28	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH	25640				25640	-
29	2304-0101000	TEMPORARY PAVEMENT	SY	530				530	Refer to the J Sheets for locations of temporary pavement. PCC Option shall be 6" thickness. HMA Option shall be 7" thickness. This item includes any additional excavation or movement of Class 10 material necessary for the construction and removal of temporary pavement. This item includes preparation of the subgrade in a manner that achieves a passing proof roll in accordance with Section 2109. If a proof roll is not possible due to site limitations, the Engineer may approve an alternative acceptance method. Removal of temporary pavement to be measured and paid separately under item 2510-6745850. --- Method of Measurement: The area of temporary pavement placed will be measured in square yards. --- Basis of Payment: Payment will be made at the contract unit price per square yard of temporary pavement as constructed. Removal of temporary pavement will be measured and paid as a separate item in accordance with Standard Specifications 2510-6745850. --- Materials: Use Class C concrete or Standard Traffic HMA.
30	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	59.3				59.3	Refer to Tabulation 102-3 and the D and L Sheets for locations and information. Estimated quantity is based on 6" of granular material and an approximate density of 140 pcf.
31	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE, TEMPORARY	TON	180				180	This item is intended as an allowance to provide temporary granular driveways to residential properties throughout construction to maintain access. Provide an access plan for each stage for approval by the Engineer. Item includes excavation, grading, granular surfacing materials, maintenance, and removal as well as coordination with residents and property owners for access throughout construction. Estimated quantity is based on temporary stone driveways at half of the impacted residential driveways, 6" thickness, at 140 pcf. Actual quantity shall be as approved by the Engineer depending on the approved access maintenance plan.
32	2401-6745910	REMOVAL OF SIGN	EACH	21				21	Refer to Tabulation 190-62 and the PM Sheets for locations and information of signs to be removed. --- Method of Measurement: Each sign assembly removed will be counted. --- Basis of Payment: Payment will be made at the contract unit price for each sign assembly removed.

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Scale: 1"=
Technician: KMM | Date: 5/26/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet C.3

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet C.3

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: Earmark, FA
Division 2: Non-participating
Division 3: Non-participating Water
Division 4: Non-participating Sewer

Note: All included work listed within the Iowa DOT Standard Specifications for each Bid Item shall apply. If additional work items are listed in the Estimate Reference Information, they shall be added to the work already included in the Iowa DOT Standard Specifications listed for that Bid Item and are not necessarily added by Special Provision.

Item no.	Item Code	Item	Unit	Estimated Quantities					Estimate Reference Notes
				Division 1 (Earmark, FA)	Division 2 (Non-participating)	Division 3 (Water)	Division 4 (Sewer)	Total	
33	2401-6750001	REMOVALS, AS PER PLAN	LS	0.8		0.2		1	Refer to the Q Sheets for miscellaneous items to be removed. --- Removal of Merrill Garden Hydrant - Refer to sheet Q.1 for the location of the yard hydrant to be removed. Abandon and cap remaining water pipe. --- Water main removals - Refer to the Q Sheets for locations. Includes excavation, temporary shoring, backfill, compaction , materials, equipment, and labor required to remove the water main. Only remove water main in conflict with other proposed improvements and upon review and approval by the Engineer. All other existing water main to remain abandoned in place. Removals shown in the plans are for estimating purposes only and may not reflect actual underground conditions. No unit price will be made for differing water main removal limits. Includes removal and disposal of water main including fittings. Cap ends of water main to remain abandoned in place, incidental to this item. Furnishing, placing, and compacting backfill is incidental and shall be placed per Section 2554. --- Removal of brick driveway at 788 2nd St: - Refer to sheet Q.1 for location. --- Removal of bridge pier foundations on 7th Ave - Refer to sheet D.1 for locations and information. Pier foundations shall be removed to 1' below subgrade preparation limits. --- Removal of ball field - Refer to the Q Sheets for locations and information. Contractor to dispose of ball field fencing, signage, dugouts, and infield granular material. Coordinate with City Parks division for removal of other ball field materials.
34	2402-0425031	GRANULAR BACKFILL	TON	499				499	This item is to be used for granular backfill for retaining wall construction. Estimated quantity is based on average backfill width dimension of 4' behind all block retaining walls at 125 pcf.
35	2402-2720000	EXCAVATION, CLASS 20	CY	581				581	Refer to the V Sheets for information.
36	2402-2721000	EXCAVATION, CLASS 21	CY	278				278	Refer to the V Sheets for information.
37	2403-0100000	STRUCTURAL CONCRETE (MISCELLANEOUS)	CY	8.6				8.6	This item is for concrete apron footings to be constructed at the downstream ends of storm sewer pipe outlets and culverts. Refer to the U Sheets for details. Refer to the M Sheets for locations. This does not include any structural concrete for the proposed bridge or any utility structures to be paid by other items.
38	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	CY	539.6				539.6	Refer to the V Sheets for information.
39	2403-1000005	FIBER REINFORCEMENT FOR STRUCTURAL CONCRETE	CY	436.1				436.1	Refer to the V Sheets for information.
40	2403-1000010	TRIAL BATCH AND TEST PLACEMENT (FIBER REINFORCED CONCRETE)	LS	1				1	Refer to the V Sheets for information.
41	2403-7000210	HIGH PERFORMANCE STRUCTURAL CONCRETE	CY	460.1				460.1	Refer to the V Sheets for information.
42	2403-7303000	STRUCTURAL CONCRETE COATING	SY	253.7				253.7	Refer to the V Sheets for information.
43	2404-7775000	REINFORCING STEEL	LB	85654				85654	Refer to the V Sheets for information.
44	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	149924				149924	98 lb of quantity for this item is for reinforcing steel used in concrete apron footings as well as reinforced pavement at shallow utility crossings. Refer to the U Sheets and M Sheets for concrete apron footing locations and details. Refer to the B Sheets and L Sheets for utility crossing reinforcement locations and details. 149,826 lb of quantity for this item is for reinforcing steel used on the Alburnett Rd bridge over Indian Creek. Refer to the V Sheets for epoxy coated reinforcing steel to be used for the Alburnett Rd bridge over Indian Creek.
45	2404-7775009	REINFORCING STEEL, STAINLESS STEEL	LB	3658				3658	Refer to the V Sheets for information.
46	2407-0551363	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C63	EACH	18				18	Refer to the V Sheets for information.
47	2407-0551371	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C71	EACH	9				9	Refer to the V Sheets for information.
48	2408-7800000	STRUCTURAL STEEL	LB	10136				10136	Refer to the V Sheets for information.
49	2412-0000100	LONGITUDINAL GROOVING IN CONCRETE, BRIDGE DECK	SY	863				863	This item is for grooving the bridge deck. Refer to the V Sheets for bridge deck information.
50	2414-6425410	CONCRETE BARRIER, REINFORCED, SEPARATION	LF	529.4				529.4	Refer to the V Sheets for information.
51	2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING	LF	467.4				467.4	Refer to the V Sheets for information.
52	2414-6460000	ORNAMENTAL METAL RAILING	LF	454.2				454.2	Refer to the V Sheets for information. Method of Measurement: The railing will be measured in lineal feet from centerline to centerline of end posts. Basis of Payment: Payment will be at the contract unit price per lineal foot of ornament metal railing installed.
53	2416-0100015	APRONS, CONCRETE, 15 IN. DIA	EACH	2				2	Refer to the M Sheets for locations and information. Apron guards shall be installed per DR-213 on all upstream aprons incidental to this item. Footings shall be installed for all downstream aprons and are measured and paid by items 2403-0100000 and 2404-7775005. Tie joints to structures in accordance with DR-121.
54	2416-0100018	APRONS, CONCRETE, 18 IN. DIA.	EACH	4				4	Same as previous item
55	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	2				2	Same as previous item
56	2416-0100030	APRONS, CONCRETE, 30 IN. DIA.	EACH	1				1	Same as previous item
57	2416-0100048	APRONS, CONCRETE, 48 IN. DIA.	EACH	1				1	Same as previous item
58	2416-1160018	CULVERT, CONCRETE ENTRANCE PIPE, 18 IN. DIA.	LF	88				88	Refer to the M Sheets for locations and information. RCP shall be open joint wrapped in engineering fabric per Standard Road Plan SW-211. Trench bedding shall be Standard Road Plan SW-102 type R-2. Dewatering may be necessary and is incidental to this item.
59	2431-0000100	SEGMENTAL BLOCK RETAINING WALL	SF	1993.2				1993.2	Refer to Tabulation 2431-1 and the U Sheets for locations and information for retaining walls. Geotechnical Engineering Report available upon request for site soil information. Blocks shall be 8"x18"12" (nominal dimensions), taupe color, straight split texture or similar. Provide sample block and cap units for approval by the Engineer prior to retaining wall construction activities. Comply with ASTM C 1372. 4000 psi minimum 28 day compressive block strength shall be allowed. Excavation and backfill behind the retaining walls for the reinforced earth zone is not included in the quantity for Class 10 Excavation and is incidental to this item.
60	2433-0001042	CONCRETE DRILLED SHAFT, 42 IN. DIAMETER	LF	382				382	Refer to the V Sheets for information.
61	2433-0003000	DEMONSTRATION SHAFT	LF	20				20	Refer to the V Sheets for information.
62	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.	EACH				6	6	Refer to the M Sheets for locations and information. A-LOK seals between all sanitary sewer structures and pipes are included in this item. Use Type A or Type C castings. Include steps for all sanitary sewer manholes. Use external chimney seals for manholes that are not permanently exposed to sunlight. Dewatering may be necessary and is incidental to this item.

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Scale: 1"=
Technician: KMM | Date: 5/26/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet C.4

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet C.4

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: Earmark, FA
Division 2: Non-participating
Division 3: Non-participating Water
Division 4: Non-participating Sewer

Note: All included work listed within the Iowa DOT Standard Specifications for each Bid Item shall apply. If additional work items are listed in the Estimate Reference Information, they shall be added to the work already included in the Iowa DOT Standard Specifications listed for that Bid Item and are not necessarily added by Special Provision.

Item no.	Item Code	Item	Unit	Estimated Quantities					Estimate Reference Notes
				Division 1 (Earmark, FA)	Division 2 (Non-participating)	Division 3 (Water)	Division 4 (Sewer)	Total	
63	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	5				5	Refer to the M Sheets for locations and information. Connections of existing and proposed storm shall be incidental to this item and shall be per Standard Road Plan SW-211. Use Type E castings. Dewatering may be necessary and is incidental to this item.
64	2435-0140196	MANHOLE, STORM SEWER, SW-401, 96 IN.	EACH	2				2	Same as previous item
65	2435-0250100	INTAKE, SW-501	EACH	1				1	Refer to the M Sheets for locations and information. Dewatering may be necessary and is incidental to this item.
66	2435-0250284	INTAKE, SW-502, 84 IN.	EACH	6				6	Same as previous item
67	2435-0250500	INTAKE, SW-505	EACH	3				3	Same as previous item
68	2435-0250700	INTAKE, SW-507	EACH	4				4	Same as previous item
69	2435-0250900	INTAKE, SW-509	EACH	22				22	Same as previous item
70	2435-0251000	INTAKE, SW-510	EACH	3				3	Same as previous item
71	2435-0251110	INTAKE, SW-511 MODIFIED	EACH	1				1	This item is for the Bioretention Basin Outlet Structure. Refer to the M Sheets for locations and information and refer to the U Sheets for details that modify the standard detail SW-511 structure. Use a SW-604 Type R grate bolted to the top of the structure, incidental to this item. Core a 3" diameter orifice at the pipe invert elevation incidental to this item. Dewatering may be necessary and is incidental to this item.
72	2435-0251224	INTAKE, SW-512, 24 IN.	EACH	1				1	Refer to the M Sheets for locations and information. Dewatering may be necessary and is incidental to this item.
73	2435-0254100	INTAKE, SW-541	EACH	1				1	Same as previous item
74	2435-0400308	INTERNAL DROP CONNECTION, SW-308	EACH				1	1	Same as previous item
75	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	5				5	Refer to Tabulation 104-10 and the M Sheets for locations and information. No unit price adjustment shall be made for quantity adjustments of manhole adjustments. Use Type E castings for storm sewer manholes. Use Type A or Type C castings for sanitary sewer manholes.
76	2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH	1				1	Same as previous item
77	2435-0700020	CONNECTION TO EXISTING INTAKE	EACH	1				1	Refer to the M Sheets for locations and information.
78	2502-6745952	REMOVAL OF SUBDRAIN	LF	498.5				498.5	Refer to Tabulation 110-14 and the Q Sheets for locations and information. --- Method of Measurement: Subdrain removed will be measured by lineal foot along the centerline of the pipe. --- Basis of Payment: Payment will be made at the unit price per lineal foot of subdrain pipe removed.
79	2502-8212036	LONGITUDINAL SUBDRAIN (SHOULDER), 6 IN. DIA.	LF	6170.6				6170.6	Refer to Tabulation 104-9A and the M Sheets for locations and information. Refer to the U Sheets for details.
80	2502-8213104	SUBDRAIN, PVD, STANDARD, NON-PERFORATED, 4 IN.	LF	47.4				47.4	Refer to Tabulation 304-99 and the M Sheets for locations. Includes trench excavation, furnishing bedding material, placing bedding and backfill material, tap, fittings, and plugs. 4 inch PVC subdrains are to be connected to drains from 200 7th Ave underground to tie roof drains to the roadway subdrain.
81	2502-8213106	SUBDRAIN, PVD, STANDARD, NON-PERFORATED, 6 IN.	LF	8.5				8.5	Refer to Tabulation 304-99 and the M Sheets for locations. Includes trench excavation, furnishing bedding material, placing bedding and backfill material, tap, fittings, and plugs.
82	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	40				40	Refer to Tabulation 104-9A and the M Sheets for locations and information. Connections to structures on the high side of the pipe run shall have a plastic plug installed. Connections to structures on the low side of the pipe shall have a rodent guard installed. Outlets shall be corrugated HDPE. Item includes connecting all existing subdrain(s), field tiles or sump pumps into storm sewer pipe or structure as determined by Engineer. Core drilling for connections to existing structures is incidental.
83	2502-8221305	SUBDRAIN OUTLET, DR-305	EACH	1				1	Refer to Tabulation 104-9A and the M Sheets for locations and information.
84	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.	LF	2032				2032	Refer to Tabulation 104-5B and the M Sheets for locations and information. Trench bedding shall be Standard Road Plan SW-102 type R-2. Storm sewers along the back of curb or under street pavement shall be backfilled with granular backfill to the bottom of the modified subbase is incidental to this item. Disposal of excavated trench waste material for replacement with granular backfill is incidental to this item. Tie pipe joints at aprons per DR-121 Type 3.Wrap pipe joints with engineering fabric. Where proposed storm sewer crosses over water main, or less than 18 inches under water main, water-tight gaskets shall be used and are included in this bid item. Temporary plugs, plates, or connections, dewatering, and bypass pumping as needed for staged construction are incidental to this item. The requirement for video inspection of storm sewer will be enforced.
85	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN.	LF	315				315	Same as previous item
86	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	LF	624				624	Same as previous item
87	2503-0114230	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 30 IN.	LF	198				198	Same as previous item
88	2503-0114236	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 36 IN.	LF	42				42	Same as previous item
89	2503-0114248	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 48 IN.	LF	819				819	Same as previous item
90	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	1691.0				1691.0	Item includes backfilling removed item(s) per Division 21. Item includes maintaining drainage. Refer to Tabulation 110-14 and the Q Sheets for locations and information. Length of measurement for payment shall extend to the end of aprons and shall include the removal and disposal of aprons and apron footings, where applicable.
91	2503-0200136	REMOVE STORM SEWER PIPE GREATER THAN 36 IN.	LF	152.9				152.9	Same as previous item

DOT PROJECT NUMBER: HDP-4775(646)--71-57

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	FINAL PLANS	05/13/26	

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Technician: KMM | Date: 5/26/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet C.5

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

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Project No: 116.0663

Sheet C.5

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: Earmark, FA
Division 2: Non-participating
Division 3: Non-participating Water
Division 4: Non-participating Sewer

Note: All included work listed within the Iowa DOT Standard Specifications for each Bid Item shall apply. If additional work items are listed in the Estimate Reference Information, they shall be added to the work already included in the Iowa DOT Standard Specifications listed for that Bid Item and are not necessarily added by Special Provision.

Item no.	Item Code	Item	Unit	Estimated Quantities					Estimate Reference Notes
				Division 1 (Earmark, FA)	Division 2 (Non-participating)	Division 3 (Water)	Division 4 (Sewer)	Total	
92	2504-0114008	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 8 IN.	LF				923.9	923.9	Material shall be **PVC Composite (truss pipe)**. Refer to Tabulation 301-99 and the M Sheets for locations and information. Trench shall be Standard Road Plan SW-103 Class F-3. The Contractor shall maintain sanitary sewer service to all users during construction of proposed sanitary sewer main. This includes any temporary bypass pumping of waste in such a method that conforms to all federal, state, and local regulations. Maintaining sewer service is considered incidental to the sanitary sewer main construction, and includes any costs associated with bypass pumping. Coordination with the Engineer is required prior to any bypass pumping. Progress schedule shall not be delayed by the required 30-day waiting period for mandrel testing (not considered critical path). If necessary to maintain progress schedule, the Contractor shall mandrel test after paving is completed and shall be responsible for all costs associated with potential repairs for failed tests. Dewatering may be necessary and is incidental to this item.
93	2504-0114015	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 15 IN.	LF				413.4	413.4	Same as previous item
94	2504-0200404	SANITARY SEWER SERVICE STUB, POLYVINYL CHLORIDE PIPE (PVC), 4 IN.	LF				221.2	221.2	Material shall be SDR 23.5. Refer to the MSA Sheets for locations and information. Trench shall be per Standard Road Plan SW-103 Class F-3. The Contractor shall maintain sanitary sewer service to all users during construction of proposed sanitary sewer main. This includes any temporary bypass pumping of waste in such a method that conforms to all federal, state, and local regulations. Maintaining sewer service is considered incidental to the sanitary sewer service stub construction, and includes any costs associated with bypass pumping. Coordination with the Engineer is required prior to any bypass pumping. Connection of service stub to existing sanitary sewer service pipe and any required fittings is included in the cost for this item. Dewatering may be necessary and is incidental to this item.
95	2504-0200406	SANITARY SEWER SERVICE STUB, POLYVINYL CHLORIDE PIPE (PVC), 6 IN.	LF				271.1	271.1	Same as previous item
96	2504-0240036	REMOVE SANITARY SEWER PIPE LESS THAN OR EQUAL TO 36 IN	LF				1595.2	1595.2	Refer to Tabulation 110-14 and the Q Sheets for locations and information. Item includes capping of ends of sanitary mains to remain and backfilling removed item(s) per Division 21. Includes bypass pumping.
97	2504-0240145	SANITARY SEWER CLEANOUT	EACH				3	3	Refer to Tabulation 301-99 and the M Sheets for locations and information. Water-tight tops shall be included and are incidental to this item.
98	2507-2638650	BRIDGE WING ARMORING - EROSION STONE	SY	12.6				12.6	Refer to the V Sheets for information.
99	2507-3250005	ENGINEERING FABRIC	SY	5884.4				5884.4	231.4 SY of engineering fabric for to be used at all areas of revetment as well as areas identified for unsuitable or unstable material excavation subgrade treatment. Refer to the B Sheets for subgrade treatment details. 5,653 SY of engineering fabric to be used at areas of revetment at the Alburnett Rd bridge over Indian Creek and within the Indian Creek channel. Refer to the V Sheets.
100	2507-6800061	REVETMENT, CLASS E	TON	6441.6				6441.6	114.6 Tons of Class E Revetment to be used at storm sewer and culvert outlets as well as the bioretention basin outlet structure low flow orifice and the bioretention basin overflow notch. Refer to Tabulation 100-23 and the M Sheets and the U Sheets for locations and details. 6,327 Tons of Class E Revetment to be used within the Indian Creek channel. Refer to the V Sheets for information.
101	2510-6745850	REMOVAL OF PAVEMENT	SY	13155.8				13155.8	Refer to Tabulation 110-1 and the Q Sheets for locations and information. Removal limits shall be extended to an existing joint line if proposed removal limits are within 2' of an existing joint. Any damage beyond the removal limits must be replaced at no additional cost to the Owner. Existing pavement on Marion Blvd and 7th Ave is expected to be 9" thick. Existing pavement on 2nd St, 8th Ave, 9th Ave, and Boyson Rd is expected to be 8" thick. Existing bridge approach pavement on 8th Ave is expected to be 10" thick. Additional sawcutting for staged construction is not shown in the plan and is incidental to this item. Estimated quantity includes removal of temporary pavement areas. Estimated quantity also includes removal of temporary pavement. Refer to the J Sheets for temporary pavement locations and information.
102	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	22			6	28	Refer to Tabulation 110-15 and the Q Sheets for locations and information. Manhole shall be removed in its entirety unless approved by the Engineer.
103	2511-0302600	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.	SY	2442.5				2442.5	Refer to Tabulation 113-01A and the D and E Sheets for locations and information of the shared use path. A water valve cover will be provided to the Contractor at no cost for valves that will end up in the shared use path and shall be installed per the City of Marion Water Department. Certified Plant Inspection is required.
104	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	STA	10.45				10.45	Refer to Tabulation 113.01A and the D and E Sheets for locations and information of the recreational trail. Contractor shall perform process control sampling, testing, and inspection according to the provisions of Article 2107.03, P.
105	2511-6745900	REMOVAL OF SIDEWALK	SY	1297.4				1297.4	Refer to Tabulation 110-5 and the Q Sheets for locations and information. Removal limits shall be extended to an existing joint line if proposed removal limits are within 2' of an existing joint. Any damage beyond the removal limits must be replaced at no additional cost to the Owner. Sidewalks within the project limits are expected to be 4" thick.
106	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	1045.7				1045.7	Refer to Tabulation 113-01A and the D and E Sheets for locations and information for sidewalks. Refer to the S Sheets for sidewalk ramp construction and ADA compliance information. A water valve cover will be provided at no cost to the Contractor for valves that will end up in the sidewalk and shall be installed per the City of Marion Water Department. Integral sidewalk curbs as shown in the plans are incidental to this item. Certified Plant Inspection is required.
107	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	3568.3				3568.3	Same as previous item
108	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN. STAMPED	SY	76.2				76.2	Refer to Tabulation 113-01A and the D and E Sheets for locations and information for sidewalks. This item is for stamped concrete parkway areas at the Alburnett Rd and 7th Ave intersection, and stamped concrete abutting median noses in medians along Alburnett Rd. Concrete shall be stamped with a brick pattern. Provide a sample of the brick stamp pattern for approval prior to construction. A water valve cover will be provided at no cost to the Contractor for valves that will end up in the sidewalk and shall be installed per the City of Marion Water Department. Certified Plant Inspection is required.
109	2511-7528101	DETECTABLE WARNINGS	SF	460.3				460.3	Refer to Tabulation 113-01A and the S Sheets for locations and information for detectable warnings. Detectable warnings shall be cast iron or galvanized steel panels, black color. Pre-manufactured detectable warning panels shall be cut or shaped in accordance with the manufacturer's shall be cut or shaped in accordance with the manufacturer's recommended methods where needed. There will be no measurement for excess material for payment, and disposal of excess detectable warning material is incidental.
110	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	1854.1				1854.1	Refer to Tabulation 102-3 and the D and L Sheets for locations and information. Achieve opening strength within 48 hours with use of either class C or M mix for all driveways. Certified Plant Inspection is required.
111	2515-2475007	DRIVEWAY, P.C. CONCRETE, 7 IN.	SY	1254.1				1254.1	Same as previous item
112	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	2333.6				2333.6	Refer to Tabulation 110-8 and the Q Sheets for locations and information. Removal limits shall be extended to an existing joint line if proposed removal limits are within 2' of an existing joint. Any damage beyond the removal limits must be replaced at no additional cost to the Owner. Driveways within the project limits are expected to be 6" thick.

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Scale: 1"= 20'
Technician: KMM | Date: 5/26/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet C.6

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

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Sheet C.6

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: Earmark, FA
Division 2: Non-participating
Division 3: Non-participating Water
Division 4: Non-participating Sewer

Note: All included work listed within the Iowa DOT Standard Specifications for each Bid Item shall apply. If additional work items are listed in the Estimate Reference Information, they shall be added to the work already included in the Iowa DOT Standard Specifications listed for that Bid Item and are not necessarily added by Special Provision.

Item no.	Item Code	Item	Unit	Estimated Quantities					Estimate Reference Notes
				Division 1 (Earmark, FA)	Division 2 (Non-participating)	Division 3 (Water)	Division 4 (Sewer)	Total	
113	2516-8725065	SPECIAL RETAINING WALL, AS PER PLAN	SF	47.2				47.2	Refer to Tabulation 2431-2 in the C Sheets. This item is for removal, salvaging, and reinstallation of existing block retaining wall at 225 9th Ave. Refer to the E Sheets and U Sheets for information. Blocks that are damaged shall be replaced with similar block size, texture, and color to match the existing wall. Provide a sample of any replacement blocks for approval prior to ordering and installing blocks. --- Construction shall be in accordance with Section 2430. --- Method of Measurement: The area of retaining wall blocks removed and reinstalled will be measured by square foot. No measurement will be made for replacement blocks. --- Basis of Payment: Payment will be at the contract unit price per square foot of retaining wall blocks that are removed, salvaged, and reinstalled.
114	2519-1002048	FENCE, CHAIN LINK, 48 IN. HEIGHT	LF	154				154	Refer to Tabulation 100-07 and the D Sheets for locations and information. Chain link fence shall be black vinyl coated.
115	2519-3300600	FENCE, SAFETY	LF	2780				2780	Refer to the J Sheets for locations of safety fence. Estimated quantity does not include safety fence to be installed for Safety Closures to be paid by 2528-2518000. --- Method of Measurement: Safety fence will be measured in lineal feet along the top of fence as installed. --- Basis of Payment: Payment will be made at the unit price per lineal foot of safety fence installed in accordance with the plans or as directed by the Engineer. --- Materials: Use orange construction fence.
116	2519-4200020	REMOVAL AND REINSTALLATION OF FENCE, CHAIN LINK	LF	208.4				208.4	Refer to Tabulation 100-08 and the D Sheets for locations and information. Fence relocation shall be coordinated with the property owner, but shall not be placed within the public right-of-way. Fence condition shall be reviewed by the Contractor and Engineer and documented prior to removal. Any fence considered to be in good condition prior to removal that is damaged shall be replaced with new at no additional cost. Includes new fence ties as needed. Fence material shall be replaced with new if unable to be salvaged at no additional cost to the owner.
117	2519-4200120	REMOVAL OF FENCE, CHAIN LINK	LF	132				132	Refer to Tabulation 100-8 and the Q Sheets for locations and information.
118	2520-3350015	FIELD OFFICE	EACH	1				1	Submit proposed Field Office location for approval by the Engineer prior to beginning work. Field Office may be moved throughout the project at the Contractor's discretion with prior location approvals from the Engineer.
119	2523-0000100	LIGHTING POLES, BRIDGE POLE	EACH	4				4	Refer to the P Sheets for locations and information.
120	2523-0000100	LIGHTING POLES, COMBINATION ROADWAY AND TRAIL POLE	EACH	6				6	Same as previous item
121	2523-0000100	LIGHTING POLES, ROADWAY POLE	EACH	7				7	Same as previous item
122	2523-0000100	LIGHTING POLES, TRAIL POLE	EACH	6				6	Same as previous item
123	2523-0000200	ELECTRICAL CIRCUITS	LF	4028				4028	Same as previous item
124	2523-0000310	HANDHOLES AND JUNCTION BOXES	EACH	13				13	Same as previous item
125	2523-0000400	CONTROL CABINET	EACH	2				2	Refer to the P Sheets for locations and information. Item includes electrical panel, cabinet equipment, and wiring in power service cabinet. Cabinet included in the traffic signalization bid item.
126	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN	EACH	4				4	Refer to Tabulation 190-61 and the PM Sheets for locations and information of signs to be removed and reinstalled. Store and protect signs until installed at the new locations. Notify the Engineer at least 72 hours in advance of removals. Permanent sign locations shall be coordinated with the Engineer prior to reinstallation. Sign installation shall comply with the most current edition of the MUTCD. If any signs are damaged or misplaced, the sign shall be replaced at no cost to the Owner. Existing sign posts shall be removed and properly disposed of off site. All signs shall be reinstalled on new sign posts with post anchors, posts and anchors to be measured and paid by items 2524-9276010, 2524-9276021, and 2524-9276024. Each assembly, regardless of number of posts or signs per assembly will be measured as one unit. Item includes furnishing and installing mounting hardware to reinstall each sign on the new post(s). --- Method of Measurement: Each sign assembly removed, salvaged, and reinstalled will be counted. --- Basis of Payment: Payment will be made at the contract unit price for each sign assembly removed, salvaged, and reinstalled.
127	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS	LF	330				330	This bid item is for replacing posts of removed signs to be reinstalled as well as for new signs. Refer to Tabulation 190-51 and the PM Sheets for locations and information of sign posts with post anchors to be installed. Posts shall be powder coated painted black. Refer to Materials I.M. 568 for powder coating requirements.
128	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION	EACH	23				23	Refer to Tabulation 190-51 and the PM Sheets for locations and information of sign posts with post anchors to be installed. Post anchors shall be powder coated painted black. Refer to Materials I.M. 568 for powder coating requirements.
129	2524-9276024	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY CONCRETE INSTALLATION	EACH	7				7	Same as previous item
130	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	206.5				206.5	Refer to Tabulations 190-51 and 190-66 and the PM Sheets for locations and information of new permanent signs to be installed.
131	2525-0000100	TRAFFIC SIGNALIZATION	LS	1				1	Refer to the N Sheets for information.
132	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION	LS	1				1	Refer to the H Sheets for information.
133	2526-8285020	CONSTRUCTION SURVEY, CONTROL POINT SURVEY	LS	1				1	Refer to the G Sheets for information.
134	2526-8285030	CONSTRUCTION SURVEY, RIGHT OF WAY	LS	1				1	Includes staking of existing right-of-way, property corners, and temporary and permanent easement boundaries within the project limits.
135	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	0.9		0.05	0.05	1	Provide all survey, construction layout, and staking for the project. Refer to Standard Specification 2106 for settlement monitoring required for deep embankment fills.
136	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE	EACH	81				81	Refer to the Tabulation 108-29 and the PM Sheets for locations and information.
137	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	59.24				59.24	Refer to the PM Sheets for locations. Refer to the J Sheets for pavement markings to be removed that conflict with temporary traffic control.
138	2527-9263190	SYMBOLS AND LEGENDS REMOVED	EACH	8				8	Refer to the PM Sheets for locations.
139	2527-9263217	PAINTED PAVEMENT MARKING, DURABLE	STA	230.05				230.05	Refer to the Tabulation 108-22 and the PM Sheets for locations and information. Refer to J Sheets for markings removed that conflict with the temporary traffic control, which shall be repainted and measured for payment by this item.

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

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Project No: 116.0663

Sheet C.7

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

ESTIMATE OF QUANTITIES AND TABULATIONS

SNYDER & ASSOCIATES, INC.
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Project No: 116.0663

Sheet C.7

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: Earmark, FA
Division 2: Non-participating
Division 3: Non-participating Water
Division 4: Non-participating Sewer

Note: All included work listed within the Iowa DOT Standard Specifications for each Bid Item shall apply. If additional work items are listed in the Estimate Reference Information, they shall be added to the work already included in the Iowa DOT Standard Specifications listed for that Bid Item and are not necessarily added by Special Provision.

Item no.	Item Code	Item	Unit	Estimated Quantities					Estimate Reference Notes
				Division 1 (Earmark, FA)	Division 2 (Non-participating)	Division 3 (Water)	Division 4 (Sewer)	Total	
140	2527-9263231	REMOVABLE TAPE MARKINGS, WET RETROREFLECTIVE	STA	50.48				50.48	Refer to the J Sheets for removable tape markings to be used for temporary traffic control. Additional payment will not be made for substitution from tape to suitable temporary pavement markings outside of the normal construction season caused by the Contractor's delay to their progress schedule.
141	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	230.05				230.05	Refer to the Tabulation 108-22 and the PM Sheets for locations and information. Refer to J Sheets for markings removed that conflict with the temporary traffic control, which shall be repainted and measured for payment by this item.
142	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	81				81	Refer to the PM Sheets for locations.
143	2528-2518000	SAFETY CLOSURES	EACH	25		1	1	27	Refer to Tabulation 108-13A the J Sheets for locations of safety closures.
144	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	2069				2069	Refer to the J Sheets for locations and information.
145	2528-8400256	TEMPORARY TRAFFIC SIGNALS	LS	1				1	Refer to the J Sheets for locations and information. This item is for temporary traffic signals on Boyson Rd and 8th Ave for temporary traffic control and single lane closure with signals. Refer to Iowa DOT Standard Road Plan TC-216 for locations of temporary signals and information. Use a trailer-mounted temporary traffic signal system with a wireless connection in lieu of wood post span assemblies. --- Method of Measurement: Lump sum, no measurement will be made for this item. --- Basis of Payment: Lump sum contract price. Payment for this item includes, but is not limited to, furnishing and installation of temporary traffic signals, inspection of temporary traffic signals daily at a minimum, maintenance of temporary traffic signals throughout construction, coordination of signal placement and timing with the Engineer, and removal of the temporary traffic signals.
146	2528-8445110	TRAFFIC CONTROL	LS	1				1	This item includes furnishing and maintaining all temporary traffic control as shown in the J Sheets. All material and execution shall comply with the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as approved by the Department. Refer to General Notes for Special signs, closure and traffic requirements. All traffic control shown in the J Sheets is included with this item except bid items specifically noted for payment such as, but not limited to, Temporary Driveway Surfacing, Temporary Pavement, Safety Fence, Safety Closures, Temporary Traffic Signals, Stabilized Construction Entrance, Temporary Lane Separator System, Removable Tape Markings, Temporary Barrier Rail, and PDMS.
147	2528-9109020	TEMPORARY LANE SEPARATOR SYSTEM	LF	3130				3130	Refer to the J Sheets for locations and information.
148	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	40				40	Refer to the J Sheets for information. PDMS are required 5 days in advance of road or lane closures on 7th Ave/Marion Blvd, 8th Ave, and Boyson Rd. PDMS shall remain in place until the work begins. If work is delayed, PDMS are to be maintained including adjustments to messaging and no additional days will be counted for payment for delays. An additional 10 days are estimated for PDMS to be placed at the beginning of the construction season following winter shutdown.
149	2533-4980005	MOBILIZATION	LS	0.9		0.05	0.05	1	Critical Path construction schedule required to be submitted at the pre-construction conference and updated as necessary throughout construction by the Contractor.
150	2537-8900500	AMENDED SOIL	CY	130				130	Refer to the RR Sheets. Estimated quantity is based on 8 inches of amended topsoil to be placed at the wetland grass seeding area on Parcel 27. Amended soil shall include a mixture of 6 inches of washed sand and 2 inches of topsoil. Method of Measurement: This item shall be plan quantity. No measurement will be made for this item. Basis of Payment: Payment will be made at the contract unit price per CY of amended soil placed at the wetland grass seeding area on Parcel 27 as per plan.
151	2552-0000140	ROCK EXCAVATION	CY	187		79	170	436	Estimated quantity is based on approximately 5% of the trench excavation for utilities. Estimated quantity may not reflect actual subsurface conditions. The Geotechnical Report may be provided for reference upon request. This item shall be used only if subsurface rock is encountered and verified by the Engineer to be excavated. Estimated quantity is based on nominal dimensions of 5' wide x 5' deep for storm sewer, 5' wide x 10' deep for sanitary sewer, and 5' wide x 6' deep for water main.
152	2552-0000210	TRENCH FOUNDATION	TON	58		113	146	317	Estimated quantity is based on approximately 25% of utility trench excavation requiring 127 pcf trench foundation material in areas where suitable native backfill is allowed. Estimated quantity is based on nominal dimensions: 5' wide trench by 1' deep trench foundation. Actual quantity for payment will be based on certified scale tickets for the material delivered and incorporated into the project.
153	2552-0000220	REMOVAL, DISPOSAL, AND REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	675		1742	3389	5806	Estimated quantity is based on approximately 100% of utility trench excavation requiring replacement of unsuitable backfill material in areas where suitable native backfill is allowed. Estimated quantity is based on nominal dimensions: 5' wide by 6' deep trench for water main construction, 5' wide by 5' deep for storm sewer construction, and 5' wide by 10' deep trench for sanitary sewer construction. Measurements will be taken in the field and the engineer and contractor shall agree to actual quantities based on encountered conditions.
154	2552-0000300	TRENCH COMPACTION TESTING	LS	0.2		0.4	0.4	1	The Contractor is responsible for trench compaction testing performed by an independent testing laboratory hired by the Contractor. Compaction testing is required for all sanitary sewer, storm sewer, and water main trenches. Item includes proctors and re-testing of failed tests. Trenches backfilled with granular material may not be tested at the discretion of the Engineer.
155	2554-0112008	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.	LF			150		150	Refer to Tabulation 2554-1 and the M Sheets for locations and information. Include nitrile gaskets and wrap pipe incidental to this item. Dewatering may be necessary and is incidental to this item.
156	2554-0112012	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 12 IN.	LF			764		764	Same as previous item
157	2554-0114006	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 6 IN.	LF			653		653	Refer to Tabulation 2554-1 and the M Sheets for locations and information. Pipe Material shall be C900 PVC. Dewatering may be necessary and is incidental to this item.
158	2554-0203000	FITTINGS BY WEIGHT, DUCTILE IRON	LB			4212		4212	Refer to Tabulation 2554-7 and the M Sheets for locations. Estimated quantity includes 20% additional contingency fittings to accommodate unforeseen underground conditions.
159	2554-0205110	WATER SERVICE STUB, COPPER, 1 IN.	LF			611.8		611.8	Refer to Tabulation 2554-6 and the M Sheets for locations and information for water services. Water service stubs shall be Type K Copper. Location to be coordinated with the City of Marion Water Department, and approved by the Engineer. Tap to be made by the Marion Water Department. Tap, saddle, and corps will be furnished at no cost to the contractor. Testing and disinfection of water systems is incidental to the construction of pipe and fittings. Reconnecting to the existing service is incidental to this item.
160	2554-0205300	WATER SERVICE CORPORATION, 1 IN.	EACH			21		21	Refer to Tabulation 2554-6 and the M Sheets for locations and information for water services. Replacement of service corporation shall be determined upon field inspection of existing pipe condition. Location to be coordinated with the City of Marion Water Department, and approved by the Engineer. Testing and disinfection of water systems is incidental to the construction of pipe and fittings.
161	2554-0205710	WATER SERVICE CURB STOP AND BOX, COPPER, 1 IN.	EACH			21		21	Refer to Tabulation 2554-6 and the M Sheets for locations and information for water services. Replacement of service pipe shall be determined upon field inspection of existing pipe condition. Location to be coordinated with the City of Marion Water Department, and approved by the Engineer. Testing and disinfection of water systems is incidental to the construction of pipe and fittings. Removal and disposal of the existing curb stop and box is incidental.
162	2554-0207006	VALVE, GATE, DI, 6 IN.	EACH			1		1	Refer to Tabulation 2554-2 and the M Sheets for locations. Testing and disinfection of water systems is incidental to the construction of pipe and fittings.
163	2554-0207008	VALVE, GATE, DI, 8 IN.	EACH			1		1	Same as previous item.
164	2554-0207012	VALVE, GATE, DI, 12 IN.	EACH			2		2	Same as previous item.
165	2554-0209012	VALVE REMOVAL, 12 IN.	EACH			1		1	Refer to Tabulation 2554-5 and the Q Sheets for locations. Remove top portion of valve at a minimum. If removal is limited to the top portion of the valve, fill remaining valve box to top with sand prior to backfilling.

DOT PROJECT NUMBER: HDP-4775(646)--71-57

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Technician: KMM Date: 5/26/2026 Field Bk: Pg:

Project No: 116.0663 Sheet C.8

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

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Project No: 116.0663

Sheet C.8

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: Earmark, FA
Division 2: Non-participating
Division 3: Non-participating Water
Division 4: Non-participating Sewer

Note: All included work listed within the Iowa DOT Standard Specifications for each Bid Item shall apply. If additional work items are listed in the Estimate Reference Information, they shall be added to the work alreacy included in the Iowa DOT Standard Specifications listed for that Bid Item and are not necessarily added by Special Provision.

Item no.	Item Code	Item	Unit	Estimated Quantities					Estimate Reference Notes
				Division 1 (Earmark, FA)	Division 2 (Non-participating)	Division 3 (Water)	Division 4 (Sewer)	Total	
166	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH			4		4	Refer to Tabulation 2554-3 and the M Sheets for locations. Item includes all labor, pipe, fittings, accessories, and removals necessary for installation of a new fire hydrant with auxiliary valve. Backfilling and dewatering are incidental. New fire hydrant and auxiliary gate valve will be provided by the Water Department at no cost to the contractor. Testing and disinfection of water systems is incidental to the construction of pipe and fittings. No price adjustment will be made for fire hydrant assembly installation type.
167	2554-0210205	FIRE HYDRANT ASSEMBLY REMOVAL	EACH			2		2	Refer to Tabulation 2554-4 and the Q Sheets for locations. Hydrants removed shall be salvaged and delivered to the City of Marion Water Department Shop.
168	2554-0211000	FLUSHING DEVICE (BLOWOFF), TEMPORARY	EACH			2		2	Refer to the M Sheets for locations. Temporary blowoffs shall be removed from the project site.
169	2554-0212020	VALVE BOX EXTENSION	EACH	1				1	Refer to Tabulation 104-10 and the M Sheets for locations and information. Valve box extensions shall only be used for valve adjustments to proposed grade that cannot be made with the existing valve stem. Testing and disinfection of water systems is incidental to the construction of pipe and fittings.
170	2554-0212040	VALVE BOX ADJUSTMENT, MINOR	EACH	7				7	Refer to Tabulation 104-10 and the D and E Sheets for locations and information.
171	2554-0212050	VALVE BOX REMOVAL	EACH			4		4	Refer to Tabulation 303-99 and the Q Sheets for locations and information.
172	2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIALS	LS		1			1	Salvage all fire hydrants and water valves that are removed. Deliver salvaged water materials to Marion Water Department Shop. Salvage removed signs and deliver to the City Public Service Department at 195 35th Street. Salvage all intake and manhole castings and deliver to the City Public Service Department.
173	2557-0000100	LONGITUDINAL GROOVING IN CONCRETE, PAVEMENT	SY	963.7				963.7	This item is for longitudinal grooving at bridge approaches. Refer to Standard Road Plan BR-203 and BR-201 for information. Refer to the D and E Sheets for locations.
174	2599-9999005	PIPE SUPPORT OVER EXISTING UTILITY LINE	EACH	20				20	Item includes all labor and material to install pipe support over existing utility per special detail in the U Sheets. Refer to the M Sheets for utility profiles and crossings that may require pipe supports. Certified Plant Inspection is required, refer to Section 2521 for additional information. --- Method of Measurement: Each pipe support over existing utility line will be counted. --- Basis of Payment: Payment will be made at the Contract unit price for each pipe support installed over an existing utility line.
175	2599-9999005	SUBDRAIN CLEANOUT, TYPE B	EACH	17				17	Refer to Tabulation 104-9A the M Sheets for locations and special detail in the U Sheets information. This item includes SW 602 Type G castings for each cleanout. Riser diameter shall be 24 inches. Riser shall be Class 2000D RCP. Fill bottom of riser with concrete and finish to the flow line. Use tongue and groove joints wrapped with engineering fabric, unless a rubber O-ring or profile gasket complying with ASTM C 443 is specified. --- Method of Measurement: Each subdrain cleanout furnished and installed will be counted. --- Basis of Payment: Payment will be made at the Contract unit price for each subdrain cleanout installed.
176	2599-9999009	PAVEMENT NOTCH REPLACEMENT	LF	44				44	This item is only to be used as directed by the Engineer depending on the condition of the existing pavement notch at the 8th Ave bridge over Indian Creek. --- Refer to Sheet V.50 for description of work, materials, and details of construction, method of measurement, and basis of payment.
177	2599-9999010	CONCRETE WASHOUT	LS	1				1	Provide and maintain concrete washout system. --- Products: Provide a concrete washout system that retains all concrete washwater and complies with one of the following; Concrete washout containers, concrete washout collection bags, chute washout box, below grade system, earthen berm with double thickness of impermeable plastic liner (10 mil per sheet). Do not use silt fence, unlined hay bales, unlined earthen embankments, or other products that may allow concrete washwater to leak out of the containment area or come into direct contact with the ground. --- Construction: Mark the location of the washout area and provide directions to truck drivers. Locate washout containment a minimum of 50 feet from proposed or existing storm sewer intakes, open ditches, or waterbodies. Collect all concrete wash water from ready mix trucks, pumper trucks, and cleaning of tools and other equipment. Retain concrete washwater within the containment system until the water evaporates or is collected and disposed. Prior to rain events, lower the liquid level or cover the concrete washout containment area to prevent overflow. Clean out the concrete washwater containment area when it reached 75% of the total capacity. Hardened solids may be removed from the containment area and disposed of as other non-hazardous wastes or may be broken up and used on the site for other appropriate uses. Remove all manufactured washout containment facilities from the project area. For excavated pits, pump out and properly dispose of all remaining water, remove any hardened solids, and remove all plastic liner materials and fill pit area flush with surrounding ground. For above-grade containment facilities, pump out and properly dispose of all remaining water, remove any hardened solids, and remove all plastic liner materials and spread out earthen berms. --- Method of Measurement: Lump sum item. No measurement will be made. --- Basis of Payment: Payment will be at the lump sum price for concrete washout and includes, but is not limited to, providing concrete washwater containment, collection, and disposal.
178	2599-9999010	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1				1	This item is for the maintenance of regular solid waste collection for properties within the project work zones when access is not available. Solid waste includes garbage, recycling, and yard waste. Remove solid waste collection bins from roadside and deliver to a location outside the project perimeter for collections, where needed, and return bins to the properties on the same day. Residential collection is performed by the City of Marion, and those receptacles have serial numbers assigned to each address, City to provide a list to Contractor at the pre-construction conference. Commercial collection is performed privately, Contractor to coordinate with individual solid waste companies for collection of commercial properties. Coordinate with solid waste collection companies for change in collection locations. --- Method of Measurement: No measurement will be made for this lump sum item. --- Basis of Payment: Payment will be at the lump sum contract price. Proportional payment will be made equal to the percentage of the dollar amount paid on the original contract amount.
179	2599-9999010	RECTANGULAR RAPID FLASHING BEACON (RRFB)	LS	1				1	Refer to the U Sheets for location and details. RRFB shall include all equipment at the proposed Willow Park crosswalk location on both sides of Alburnett Rd and in the median refuge island. --- Refer to the Special Provisions for the Method of Measurement and Basis of Payment for this item.

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Project No: 116.0663

Sheet C.9

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

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Project No: 116.0663

Sheet C.9

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ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: Earmark, FA
Division 2: Non-participating
Division 3: Non-participating Water
Division 4: Non-participating Sewer

Note: All included work listed within the Iowa DOT Standard Specifications for each Bid Item shall apply. If additional work items are listed in the Estimate Reference Information, they shall be added to the work already included in the Iowa DOT Standard Specifications listed for that Bid Item and are not necessarily added by Special Provision.

Item no.	Item Code	Item	Unit	Estimated Quantities					Estimate Reference Notes
				Division 1 (Earmark, FA)	Division 2 (Non-participating)	Division 3 (Water)	Division 4 (Sewer)	Total	
180	2599-9999010	WATER MAIN ABANDONMENT	LS			1		1	Refer to the Q Sheets for locations. This item includes trench excavation as necessary, closing valves, installing thrust blocks, cutting pipe, and furnishing, placing, and compacting backfill. --- Method of Measurement: No measurement will be made for this lump sum item. --- Basis of Payment: Payment will be at the lump sum contract price for water main abandonment.
181	2599-9999014	INSULATION BOARD	SF	160				160	This item is for installation of insulation board for protection of water mains in proximity to storm structures and other underground vaults as shown in the plans or as directed by the Engineer depending on field conditions. Insulation board shall comply with ASTM C 578, 4" minimum thickness, 25 psi minimum compressive strength, R-Value 5 minimum per inch thickness. --- Method of Measurement: Measurement will be per square foot of insulation board installed. --- Basis of Payment: Payment will be at the unit price per square foot of insulation board installed.
182	2599-9999014	TEXTURED CONCRETE FORM LINER	SF	2284				2284	Refer to the V Sheets for information. Method of Measurement: The area of textured concrete form liner incorporated will be measured in square feet. Basis of Payment: Payment will be at the contract unit price per square foot of textured concrete form liner incorporated into the concrete.
183	2599-9999018	ANTI-GRAFFITI COATING	SY	290.4				290.4	Refer to the V Sheets for information. Refer to the Special Provisions for the Method of Measurement and Basis of Payment for this item.
184	2601-2634105	MULCHING, BONDED FIBER MATRIX	ACRE	12.26				12.26	Use bonded fiber matrix at all proposed seeding areas. --- Method of Measurement: Bonded fiber matrix mulch will be measured by area in acres as placed in accordance with the plans. --- Basis of Payment: Payment will be made at the contract unit price per acre of bonded fiber matrix mulch placed.
185	2601-2634150	MULCHING, WOOD CELLULOSE FIBER	ACRE	0.06				0.06	Use wood cellulose fiber at interior median mulch areas. Refer to the B Sheets for median details. Refer to the D Sheets and RR Sheets for locations.
186	2601-2636018	WETLAND GRASS SEEDING	ACRE	0.12				0.12	This item is for seeding in the bio-retention basin. Refer to the Stormwater Pollution Prevention Plan for in locations of hydraulic seeding, fertilizing, and mulching. Wetland Seed Mixture shall be used. Watering of seed accordance with the standard specifications is incidental. Estimated quantity includes and additional 25% for re-seeding as directed by the Engineer.
187	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	0.25				0.25	Refer to RR Sheets for locations and information.
188	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	5.13				5.13	Refer to RR Sheets for locations and information. Provide a "Door Hanger" to adjacent properties with guidance related to seed growth assistance such as: When and how to help watering, when it is appropriate to mow and proper mowing methods, when it is appropriate to apply fertilizer, weed control, and/or feed. Door hangers shall not be a requirement for property owners or residents to participate in the assistance of seed growth and do not relieve the Contractor of their responsibilities for seed establishment. Example door hangers shall be provided to the Engineer for approval prior to distribution to properties.
189	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	883				883	Refer to the RR Sheets for locations. Seed type planted in slope protection areas shall be in accordance with the plans as noted.
190	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	6.88				6.88	Refer to the RR Sheets for locations of seeding. This item shall be used depending on construction schedule as directed by the Engineer. Estimated quantity includes and additional 25% for re-seeding as directed by the Engineer.
191	2602-0000020	SILT FENCE	LF	4812.9				4812.9	Refer to the RR Sheets and the Tabulations in the RC Sheets for locations.
192	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	4812.9				4812.9	Same as previous item.
193	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	482				482	Same as previous item.
194	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	255				255	Refer to the RR Sheets and the Tabulations in the RC Sheets for locations. --- Method of Measurement: Stabilized construction entrance will be measured in lineal feet along the center of the entrance. --- Basis of Payment: Payment will be at the contract unit price per lineal foot of stabilized construction entrance.
195	2602-0000212	FLOATING SILT CURTAIN (HANGING)	LF	1062				1062	Refer to the RR Sheets and the Tabulations in the RC Sheets for locations.
196	2602-0000240	MAINTENANCE OF FLOATING SILT CURTAIN	LF	532				532	Same as previous item.
197	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA	LF	8577				8577	Refer to the RR Sheets and the Tabulations in the RC Sheets for locations. --- Method of Measurement: Perimeter and slope sediment control devices will be measured in lineal feet not including any required overlap. --- Basis of Payment: Payment will be at the contract unit price per lineal foot of perimeter and slope sediment control device.
198	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK DESIMENT CONTROL DEVICE	LF	8577				8577	Refer to the RR Sheets and the Tabulations in the RC Sheets for locations.
199	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	LF	358				358	Same as previous item.
200	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	32				32	Same as previous item.
201	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	32				32	Same as previous item.
202	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG, EC-604	EACH	14				14	Refer to the RR Sheets and the Tabulations in the RC Sheets for locations. Method of Measurement: Each grate intake sediment filter bag installed will be counted. Basis of Payment: Payment will be at the contract unit price for each grate intake sediment filter bag installed.
203	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	14				14	Method of Measurement: Each maintenance of a grate intake sediment filter bag in accrodance with the specifications or as directed by the Engineer will be counted. Basis of Payment: Payment will be at the contract unit price for each maintenance of grate intake sediment filter bag.
204	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	14				14	Method of Measurement: Each grate intake sediment filter bag removed will be counted. Basis of Payment: Payment will be at the contract unit price for each grate intake sediment filter bag removed.
205	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	16				16	---
206	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	4				4	---

DOT PROJECT NUMBER: HDP-4775(646)--71-57

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Sheet C.10

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

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Project No: 116.0663

Sheet C.10

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ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe.
(1) Refer to MI-210.
(2) Refer to EW-501.
(3) Refer to EW-501 or EW-502.
*Predetermined for access point not constructed with this project.

Line No.	Station	Side	Access Type	Case	Curb Length (1) (LF)	Width (FT)	Driveway Surface Area (SY)	Driveway Surfacing Material (TON)	Remarks
1.0	14+47.00	Right	A	1	67.4	29.4	541.0		6'' PCC DRIVE, 1'' DROP CURB
2.0	14+80.00	Left	A	1	57.0	31.5	243.4		7'' PCC DRIVE, 2'' DROP CURB
3.0	15+63.00	Right	C	2	21.1	11.1	38.6		6'' PCC DRIVE, 2'' DROP CURB
4.0	17+87.60	Right	C	2	18.0	10.0	96.5		6'' PCC DRIVE, 2'' DROP CURB
5.0	18+97.44	Right	C	2	26.9	18.9	55.9		6'' PCC DRIVE, 2'' DROP CURB
6.0	20+81.91	Right	C	2	24.2	16.2	96.0		6'' PCC DRIVE, 1'' DROP CURB
7.0	21+69.00	Right	C	2	18.4	9.5	92.8		6'' PCC DRIVE, 2'' DROP CURB
8.0	109+05.00	Right	A	1	71.7	41.2	100.5		7'' PCC DRIVE, 2'' DROP CURB
9.0	113+19.20	Right	A	1	44.9	26.9	312.0		7'' PCC DRIVE, 2'' DROP CURB
10.0	114+00.00	Left	C	2	17.8	9.8	28.6		6'' PCC DRIVE, 1'' DROP CURB
11.0	114+40.50	Right	A	1	55.8	30.5	70.1		
12.0	114+92.00	Left	C	2	21.6	13.6	37.3		6'' PCC DRIVE, 1'' DROP CURB
13.0	115+44.00	Right	C	2	38.1	30.1	68.8		6'' PCC DRIVE, 2'' DROP CURB
14.0	115+56.00	Left	C	1	37.2	12.6	38.2		6'' PCC DRIVE, 1'' DROP CURB
15.0	123+81.00	Right	C	1	73.7	73.7	171.5		6'' PCC DRIVE, 2'' DROP CURB
16.0	124+50.00	Right			66.3	66.3	35.6	11.220	6'' CRUSHED STONE DRIVE, 2'' LIP CURB
17.0	213+68.13	Left	C	2	24.0	17.9	16.4		6'' PCC DRIVE, 2'' DROP CURB
18.0	213+64.77	Right	A	1	78.4	30.4	523.4		7'' PCC DRIVE, 2'' DROP CURB
19.0	215+75.00	Left	C	2	16.1	10.1	15.9		6'' PCC DRIVE, 2'' DROP CURB
20.0	218+19.00	Right	C	2	27.9	24.0	99.0		6'' PCC DRIVE, 2'' DROP CURB
21.0	218+50.00	Right	C	2	19.4	11.4	21.6		6'' PCC DRIVE, 2'' DROP CURB
22.0	218+88.00	Left	C	2	24.9	16.9	59.5		6'' PCC DRIVE, 2'' DROP CURB
23.0	219+56.00	Left	C	2	15.7	9.7	32.1		6'' PCC DRIVE, 2'' DROP CURB
24.0	321+02.00	Right	C	2	18.9	10.8	28.7		6'' PCC DRIVE, 2'' DROP CURB
25.0	321+04.00	Left	C	2	19.9	11.9	25.2		6'' PCC DRIVE, 2'' DROP CURB
26.0	451+31.00	Left	C	2	16.0	7.7	24.9		6'' PCC DRIVE, 2'' DROP CURB
27.0	453+14.00	Left	C	2	20.9	11.9	39.9		6'' PCC DRIVE, 2'' DROP CURB
28.0	455+18.62	Left					152.7	48.100	6'' CRUSHED STONE DRIVE, NO CURB
29.0	456+21.00	Left	C	2	23.3	14.3	87.0		6'' PCC DRIVE, 2'' DROP CURB
30.0	456+88.00	Left	C	2	18.1	9.1	28.7		6'' PCC DRIVE, 2'' DROP CURB
31.0	457+94.00	Left	C	2	29.0	19.0	49.4		6'' PCC DRIVE, 2'' DROP CURB
32.0	460+29.00	Left	C	2	30.8	20.8	60.6		6'' PCC DRIVE, 2'' DROP CURB

TOTAL 6'' PCC DRIVEWAY(SY) - 1854.1
TOTAL 7'' PCC DRIVEWAY(SY) - 1254.1
TOTAL SURFACING, DRIVEWAY, CLASS A CRUSHED STONE (TON) - 59.3

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION		

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet C.11

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

ESTIMATE OF QUANTITIES AND TABULATIONS

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

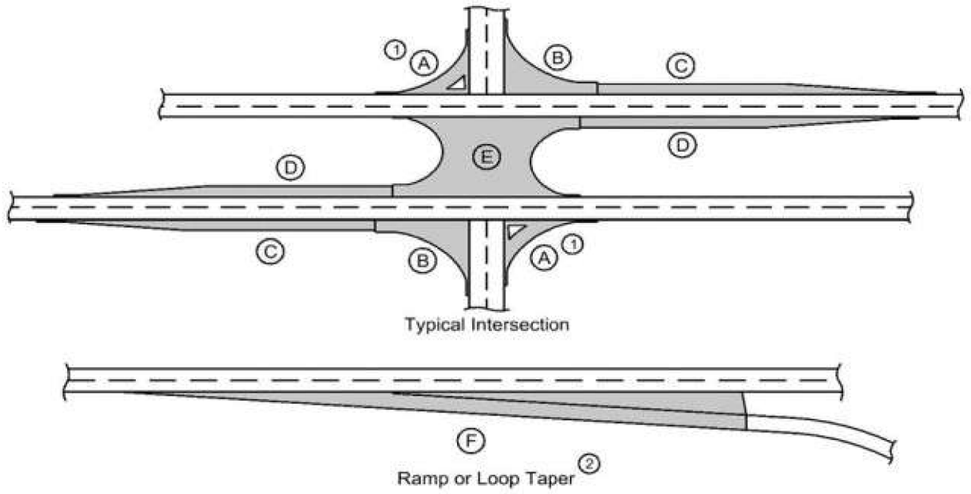
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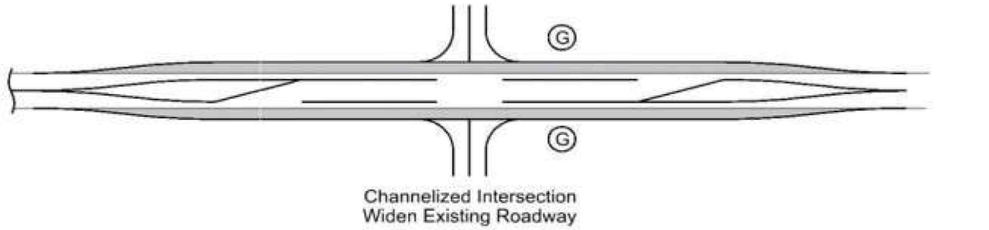
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PCC PAVEMENT

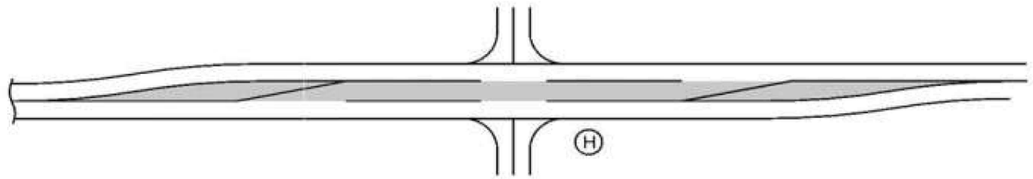


Typical Intersection

Ramp or Loop Taper (2)



Channelized Intersection
Widen Existing Roadway



Channelized Intersection
Reconstructed Roadway

(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

Line No.	Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E (SY)(3)	Area F(2) (SY)(3)	Area G (SY)(3)	Area H (SY)(3)	Area by Thickness - Thickness(IN)	Area by Thickness - Area (SY)	Polymer Grid (SY)	Modified Subbase (CY)	Remarks
1.0	Alburnett	Both	12+41.77	27+89.50	44.0	1547.73	7322.80									8.0	7322.8	8427.00	2809.00	
2.0	Alburnett	Both	31+33.83	33+50.00	44.0	216.17	866.60									8.0	866.6	1181.00	394.00	
3.0	Alburnett	Both	54+29.50	55+90.15	44.0	160.65	895.32									8.0	774.0	867.00	298.44	
4.0	7th Ave	Both	107+99.30	116+04.04		804.74	5166.00									9.0	5166.0	5413.00	1804.00	WIDTH VARIES
5.0	8th Ave	Both	213+14.50	216+59.25		344.75	1240.20									8.0	1240.2	1368.60	456.20	WIDTH VARIES
6.0	8th Ave	Both	217+09.25	220+59.55		350.30	1681.00									8.0	1681.0	1877.26	626.00	WIDTH VARIES
7.0	9th Ave	Both	320+16.15	321+93.77	27.0	177.62	563.00									7.0	563.0	671.03	224.00	
8.0	2nd St	Both	122+84.12	124+80.93	24.5	196.81	572.00									7.0	572.0	665.00	222.00	
9.0	Boyson	Both	500+00.06	505+86.47		586.41	1994.88									8.0	1415.0	1650.81	664.96	WIDTH VARIES
11.0	Boyson	Both	506+40.07	513+92.50		752.43	1236.73									8.0	1287.0	1475.00	412.24	WIDTH VARIES

TOTAL 7'' PCC (SY) - 1135.0
TOTAL 8'' PCC (SY) - 14649.6
TOTAL 9'' PCC (SY) - 5166.0
SUBGRADE STABILIZATION MATERIAL, POLYMER GRID (SY) - 23658.7
MODIFIED SUBBASE (CY) - 7888.2

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026
Project No: 116.0663 | Sheet C.12

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

ESTIMATE OF QUANTITIES AND TABULATIONS

SNYDER & ASSOCIATES, INC.
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Project No: 116.0663
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STORM SEWER

(1) Diameter or equivalent diameter
* Bid Item
** For SW-545
Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each end of the Design Length to account for estimated length to center of structures.

No.	Location Station	Offset	Type or Standard Road Plan*	Form Grade Elev.	Bottom Well Elev.	Notes	Line Number	Intake / Utility Access No. From	Intake / Utility Access No. To	Pipe Size (1) (IN)	Bid Length* (FT)	Design Length (FT)	Slope %	Flow Line Inlet Elev.	Flow Line Outlet Elev.	Pipe Profile Sheet No.	Notes
ST-1	15+13.89	22.0	SW-509	796.65	790.15		P-1	ST-1	EXISTING RCP	24.0	14	11.9	3.3	790.65	790.25	M.1	
ST-2	15+13.89	22.0	SW-509	796.65	790.78		P-2	ST-2	ST-1	24.0	48	44.0	1.2	790.75	791.28	M.1	
ST-3	20+41.06	22.0	SW-507	795.45	789.73		P-3A	FES-1A	ST-2	24.0	30	28.1	1.3	791.80	791.38	M.1	INSTALL APRON GUARD FOR FES-1A
ST-4	20+41.06	22.0	SW-509	795.45	791.15		P-3B	FES-1B	ST-2	24.0	32	30.3	1.2	791.80	791.28	M.1	INSTALL APRON GUARD FOR FES-1B
ST-5	20+08.92	23.5	SW-401 (48'')	795.45	791.53		P-4	ST-4	ST-3	15.0	48	44.0	3.0	790.33	791.65	M.16 and M.3	
ST-6	320+48.97	13.5	SW-509	797.13	792.90		P-5	ST-5	ST-4	15.0	30	26.2	1.1	792.03	791.75	M.16	
ST-7	22+21.91	22.0	SW-509	790.05	785.31		P-6	ST-6	ST-5	15.0	29	25.3	6.6	793.40	792.13	M.16	
ST-8	22+24.80	22.0	SW-509	789.96	785.85		P-7	ST-3	ST-7	15.0	177	172.9	2.4	790.23	786.11	M.3	
ST-9	22+79.14	22.0	SW-507	788.35	783.45		P-8	ST-8	ST-7	15.0	48	44.1	1.0	786.35	785.91	M.4 and M.3	
ST-10	123+22.13	12.5	SW-509	789.36	785.09		P-9	ST-7	ST-9	18.0	53	49.0	3.6	785.81	784.05	M.3	
ST-11	23+64.35	22.0	SW-510	786.47	780.95		P-10	ST-10	ST-9	15.0	79	74.5	2.1	785.59	784.05	M.17 and M.3	
ST-12	23+64.35	22.0	SW-509	786.47	782.37		P-11	ST-9	ST-11	18.0	80	75.8	2.4	783.95	782.10	M.3	
ST-13	24+62.59	22.0	SW-510	785.71	779.97		P-12	ST-12	ST-11	15.0	48	44.0	1.8	782.87	782.10	M.4 and M.3	
ST-14	24+62.59	22.0	SW-509	785.71	781.10		P-13	ST-11	ST-13	24.0	90	86.3	1.0	781.45	780.57	M.3	
ST-15	25+87.07	22.0	SW-510	786.93	779.44		P-15	ST-13	ST-15	30.0	119	114.5	0.5	780.47	779.95	M.5	
ST-16	25+87.56	22.0	SW-509	786.93	782.84		P-16	ST-14	ST-13	15.0	48	44.0	1.0	781.60	781.16	M.4	
ST-19	26+69.97	145.2	SW-604	781.27	779.00		P-18	ST-16	ST-15	15.0	48	44.0	1.0	783.34	782.90	M.6	
ST-20	33+00.00	22.0	SW-507	796.55	792.76		P-19	ST-15	FES-2	30.0	79	77.0	0.4	779.94	779.63	M.6	INSTALL FOOTING FOR FES-2
ST-21	33+00.00	22.0	SW-507	796.55	793.30		P-20	ST-19	FES-3	15.0	52	50.0	0.5	779.00	778.77	M.6	INSTALL FOOTING FOR FES-3.
ST-22	109+76.72	36.5	SW-401 (48'')	799.41	792.93	P-21 IS ENTRANCE CULVERT	P-21	FES-5	FES-4	18.0	48	47.9		778.96	776.71	M.7	SEE M7 FOR SLOPE. FES-5 APRON GUARD, FES-4 FOOTING
ST-23	109+78.90	32.5	SW-509	797.98	794.02	P-22 IS ENTRANCE CULVERT	P-22	FES-7	FES-6	18.0	36	35.8		778.79	776.07	M.7	SEE M7 FOR SLOPE. FES-7 APRON GUARD, FES-6 FOOTING
ST-24	110+41.51	32.5	SW-509	798.67	794.71		P-23	ST-20	EXISTING RCP	15.0	70	68.3	2.0	793.26	791.87	M.7	
ST-24B	111+28.22	32.5	SW-509	799.40	795.54		P-24	ST-21	ST-20	15.0	48	44.0	1.0	793.80	793.36	M.7	
ST-25	111+78.43	77.3	SW-401 (48'')	800.44	793.98		P-25	ST-22	EXISTING RCP	15.0	52	49.5	1.0	793.25	792.75	M.8	
ST-26	112+67.88	45.8	SW-401 (48'')	801.55	795.68		P-26	ST-23	ST-22	15.0	71	67.0	1.0	794.02	793.35	M.8	
ST-27	113+51.22	3.1	SW-541	801.97	796.71		P-27	ST-24	ST-23	15.0	59	54.6	1.1	794.71	794.12	M.8	
ST-27B	113+60.37	30.6	SW-505	801.43	797.02		P-27A	ST-24A	ST-24	15.0	24	19.5	1.0	795.01	794.81	M.8	
ST-28	114+66.78	26.0	SW-509	803.10	797.71		P-28	ST-24B	ST-24	15.0	78	73.6	1.0	795.54	794.81	M.8	
ST-29	114+71.84	25.0	SW-505	802.88	798.21		P-29	ST-25	EXISTING RCP	18.0	9	7.0	2.2	793.98	793.83	M.9	
ST-30	115+66.92	26.0	SW-505	803.78	799.46		P-30	ST-26	ST-25	24.0	105	100.9	1.6	795.68	794.08	M.9	
ST-31	213+05.87	25.8	SW-401 (96'')	792.24	782.31		P-31	ST-27	ST-26	24.0	97	92.6	1.0	796.71	795.78	M.10 and M.9	
ST-32	213+10.33	132.3	SW-401 (96'')	786.95	779.67		P-32	ST-28	ST-27	24.0	116	112.4	0.8	797.71	796.81	M.10	
ST-33	213+54.00	122.8	SW-509	785.93	780.88		P-33	ST-27B	ST-27	15.0	36	32.2	0.7	797.02	796.81	M.11 and M.10	
ST-34	213+79.00	122.4	SW-509	785.78	781.23		P-34	ST-29	ST-28	18.0	54	50.3	0.8	798.21	797.81	M.11 and M.10	
ST-35	213+37.70	20.5	SW-502 (84'')	790.85	782.68		P-34B	EXISTING RCP	ST-28	18.0	115	113.0	1.5	799.52	797.81	M.10	
ST-36	213+37.21	20.5	SW-501	791.01	786.58		P-35	ST-30	ST-29	15.0	92	88.4	1.3	799.46	798.31	M.11	
ST-37	214+13.63	20.0	SW-502 (84'')	791.50	783.90		P-36	ST-31	ST-32	48.0	103	98.6	2.5	782.31	779.85	M.13	
ST-38	215+48.31	20.4	SW-502 (84'')	794.61	787.03		P-37	ST-32	FES-8	48.0	130	128.3	1.3	779.67	778.01	M.13	INSTALL FOOTING FOR FES-8.
ST-39	217+42.48	22.0	SW-502 (84'')	799.98	791.98		P-38	ST-33	ST-32	24.0	41	37.4	1.7	780.88	779.85	M.13	
ST-40	218+36.14	22.0	SW-502 (84'')	800.97	792.95		P-39	ST-34	ST-33	24.0	29	25.0	1.0	781.23	780.98	M.13	
ST-41	218+36.72	22.0	SW-509	801.02	796.52		P-40	EXISTING RCP	ST-34	24.0	18	16.3	2.7	781.76	781.33	M.13	
ST-42	220+10.99	18.2	SW-502 (84'')	801.57	794.73		P-41	ST-35	ST-31	48.0	29	24.9	1.0	782.68	782.41	M.12	
ST-43	220+10.97	17.0	SW-509	801.60	797.05		P-42	ST-36	ST-35	15.0	39	34.5	1.0	786.58	786.23	M.12	
ST-44	451+74.64	22.9	SW-509	830.78	827.05		P-43	ST-37	ST-35	48.0	74	69.7	1.6	783.90	782.78	M.12	
ST-45	56+29.93	19.0	SW-512 (24'')	837.21	835.00		P-44	ST-38	ST-37	48.0	132	127.7	2.4	787.03	784.00	M.12	
ST-46	455+42.54	28.9	SW-401 (48'')	837.63	828.50		P-45	EXISTING RCP	ST-38	15.0	14	12.0	1.0	789.82	789.71	M.12	
ST-47	455+92.70	27.5	SW-509	837.26	828.09		P-46	ST-39	ST-38	48.0	191	187.1	2.6	791.98	787.13	M.12 and M.14	
ST-48	458+73.00	27.5	SW-509	830.19	825.86		P-47	ST-40	ST-39	48.0	91	86.7	1.0	792.95	792.08	M.14	
ST-49	461+92.68	17.9	SW-509	816.20	812.09		P-48	ST-42	ST-40	48.0	170	165.6	1.0	794.73	793.05	M.14	
							P-49	ST-41	ST-40	15.0	44	39.6	1.0	796.52	796.12	M.15 and M.14	
							P-50	ST-43	ST-42	15.0	35	30.5	1.0	797.05	796.70	M.15 and M.14	
							P-51	EXISTING RCP	ST-42	36.0	45	42.4	1.1	795.25	794.83	M.14	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer:	MGB	Checked By:	DMS
Technician:	KMM	Date:	5/13/2026

T-R-S:

Project No: 116.0663

Sheet C.13

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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Project No: 116.0663

Sheet C.13

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3/6/25

STORM SEWER

(1) Diameter or equivalent diameter
* Bid Item
** For SW-545
Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each end of the Design Length to account for estimated length to center of structures.

No.	Location Station	Offset	Type or Standard Road Plan*	Form Grade Elev.	Bottom Well Elev.	Notes	Line Number	Intake / Utility Access No. From	Intake / Utility Access No. To	Pipe Size (1) (IN)	Bid Length* (FT)	Design Length (FT)	Slope %	Flow Line Inlet Elev.	Flow Line Outlet Elev.	Pipe Profile Sheet No.	Notes
							P-52	ST-44	EXISTING INTAKE	15.0	44	39.4	0.6	827.05	826.81	M.18	
							P-53	ST-46A	ST-46	15.0	82	78.1	1.0	829.39	828.60	M.19	
							P-54	ST-46	ST-47	15.0	48	44.2	0.7	828.50	828.19	M.19	
							P-55	ST-47	ST-48	15.0	276	271.9	0.7	828.09	826.16	M.19	
							P-56	ST-48	ST-49	15.0	316	312.0	4.4	825.86	812.19	M.19 and M.20	
							P-57	ST-49	FES-9	15.0	42	40.0	1.0	812.09	811.69	M.20	INSTALL FOOTING FOR FES-9

NOTE: FLARED END SECTIONS (FES), ARE TO HAVE TYPE 3 JOINTS PER DR-121.
TOTAL SW-401 (48'') (EA) - 5
TOTAL SW-401 (96'') (EA) - 2
TOTAL SW-501 (EA) - 1
TOTAL SW-502 (84'') (EA) - 6
TOTAL SW-505 (EA) - 3
TOTAL SW-507 (EA) - 4
TOTAL SW-509 (EA) - 22
TOTAL SW-510 (EA) - 3
TOTAL SW-512 (24'') (EA) - 1
TOTAL SW-541 (EA) - 1
TOTAL SW-604 (EA) - 1
APRONS, CONCRETE, 15 IN. DIA. (EA) - 2
APRONS, CONCRETE, 18 IN. DIA. (EA) - 4
APRONS, CONCRETE, 24 IN. DIA. (EA) - 2
APRONS, CONCRETE, 30 IN. DIA. (EA) - 1
APRONS, CONCRETE, 48 IN. DIA. (EA) - 1
STORM SEWER GRAVITY MAIN, TRENCHED, 15 IN. (LF) - 2032
STORM SEWER GRAVITY MAIN, TRENCHED, 18 IN. (LF) - 315
CULVERT, CONCRETE ENTRANCE PIPE, 18 IN. DIA. (LF) - 88
STORM SEWER GRAVITY MAIN, TRENCHED, 24 IN. (LF) - 624
STORM SEWER GRAVITY MAIN, TRENCHED, 30 IN. (LF) - 198
STORM SEWER GRAVITY MAIN, TRENCHED, 36 IN. (LF) - 42
STORM SEWER GRAVITY MAIN, TRENCHED, 48 IN. (LF) - 819

104_10
4/16/24

ADJUSTMENT OF FIXTURES

Line No.	Location Station	Side	Type of Fixture	Adjustment
1.0	112+23.75	Right	Sanitary Sewer	Major, -1.12'
2.0	112+28.92	Left	Sanitary Sewer	Minor, +-.1'
3.0	115+12.50	Left	Sanitary Sewer	Minor, +.42'
4.0	213+63.80	Left	Sanitary Sewer	Minor, +-.1'
5.0	215+67.00	Left	Sanitary Sewer	Minor, +-.1'
6.0	124+72.00	Left	Sanitary Sewer	Minor, +-.1'
8.0	217+21.82	Left	Valve Box Adjustment	-.55'
9.0	217+29.06	Left	Valve Box Adjustment	-.75'
10.0	505+78.50	Right	Valve Box Adjustment	-.32'
11.0	213+51.25	Left	Valve Box Adjustment	+-.1'
12.0	215+97.65	Left	Curb Stop Box Extension	+.88'
13.0	217+62.01	Left	Curb Stop Box Adjustment	-.33'
14.0	218+75.56	Left	Curb Stop Box Adjustment	+.28'
15.0	219+14.03	Left	Curb Stop Box Adjustment	-.08'

TOTAL MANHOLE ADJUSTMENT, MAJOR (EA) - 1
TOTAL MANHOLE ADJUSTMENT, MINOR (EA) - 5
TOTAL VALVE BOX ADJUSTMENT (EA) - 7
TOTAL VALVE BOX EXTENSION (EA) - 1

100_08
8/15/22

REMOVAL OF FENCE

Removal of Field Fence is incidental to Clearing and Grubbing.

Line No.	Station From	Offset	Station To	Offset	Side	Type	Length (LF)	Remarks
1.0	18+43.74	44.9	18+68.81	50.0	Right	Chain Link	56.0	
2.0	20+91.45	60.3	21+43.36	45.0	Right	Chain Link	76.0	
4.0	451+41.79	43.0	452+94.65	44.7	Left	Chain Link	157.2	REMOVE AND REINSTALL
5.0	454+11.04	39.8	454+62.93	43.8	Right	Chain Link	51.2	REMOVE AND REINSTALL

TOTAL REMOVAL OF FENCE, CHAIN LINK (LF) - 132
TOTAL REMOVAL AND REINSTALLATION OF FENCE, CHAIN LINK - 208.4

100_07
1/13/23

FENCING

* Bid Item

Line No.	Station From	Offset	Station To	Offset	Side	Fence Type	Length (LF) *	Remarks
1.0	18+43.74	44.9	18+86.81	50.0	Right	Chain Link	57.0	
2.0	20+91.45	60.3	21+43.36	45.0	Right	Chain Link	97.0	

TOTAL FENCE, CHAIN LINK, 48 IN. HEIGHT (LF) - 154

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026
Project No: 116.0663 | Sheet C.14

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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Project No: 116.0663
Sheet C.14

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3/27/25

SAFETY CLOSURES

Refer to Section 2528 of the Standard Specifications

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
23+00.00	1		ALBURNETT ROAD
33+54.78	1		STAGE 2, 3, 4, 5 - ALBURNETT ROAD
38+64.35	1		STAGE 1 - ALBURNETT ROAD
17+18.74	1		STAGE 2 - ALBURNETT ROAD
19+93.04	1		STAGE 2 - 9TH AVE
23+48.18	1		STAGE 2 - 2ND STREET
33+54.78	1		STAGE 2 - ALBURNETT ROAD
15+79.75	1		STAGE 3 - ALBURNETT ROAD
16+50.00	1		STAGE 3 - ALBURNETT ROAD
17+72.81	1		STAGE 3 - ALBURNETT ROAD
22+98.50	1		STAGE 3 - ALBURNETT ROAD
36+50.00	1		STAGES 3 AND 4- ALBURNETT ROAD
12+80.26	1		STAGE 4 - ALBURNETT ROAD
15+35.54	1		STAGE 4 AND 5 - 3RD STREET
16+48.85	1		STAGE 4 AND 5 - WELLS FARGO ALLEY
17+25.00	1		STAGE 4 AND 5 - 3RD STREET
17+42.49	1		STAGE 4 - ALBURNETT ROAD
16+40.00	1		STAGE 5 - ALBURNETT ROAD
17+68.00	1		STAGE 5 - ALBURNETT ROAD
12+63.83	1		STAGE 6 - ALBURNETT ROAD
14+17.47	1		STAGE 6 AND 7 - ALBURNETT ROAD
12+73.90	1		STAGE 7 - 3RD STREET
54+97.21	1		STAGE 10 AND 11- ALBURNETT ROAD
51+90.20	1		STAGE 11,12,13,14-ALBURNETT ROAD
54+71.66	1		STAGE 13 AND 14 - ALBURNETT ROAD

TOTAL SAFETY CLOSURES (EA) = 25

304_99
Modified

STORM SEWER SERVICE STUB

Line No.	Property	Size	Length
1	200 7TH AVE	4''	17.4'
2	200 7TH AVE	4''	18.4'
3	246 7TH AVE	4''	11.4'
4	101 8TH AVE	6''	8.0'

TOTAL 4'' (LF) - 47.2
TOTAL 6'' (FL) - 8.0

104_09A
5/6/24

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
1.0	Alburnett	12+37.80	15+09.89	Left	30.0	6.0	283.0	15+09.89	DR-303	15.7	
2.0	Alburnett/7th Ave	15+09.89	114+62.78	Right	30.0	6.0	501.0	15+09.89	DR-303	37.1	
3.0	Alburnett	16+28.26	15+17.89	Left	30.0	6.0	110.0	15+17.89	DR-303	6.1	
4.0	8th Ave/Alburnett	217+39.58	15+17.89	Right	30.0	6.0	161.0	15+17.89	DR-303	8.9	
5.0	Alburnett/8th Ave	17+99.02	215+50.05	Left	30.0	6.0	191.0	215+50.05	DR-303	10.6	
6.0	Alburnett/8th Ave	17+98.94	217+41.48		30.0	6.0	120.0	217+41.48	DR-303	6.7	
7.0	Alburnett	18+00.98	20+39.06	Left	30.0	6.0	238.0	20+39.06	DR-303	13.2	
8.0	Alburnett	18+00.90	20+06.90	Right	30.0	6.0	206.0	20+06.90	DR-303	11.4	
9.0	Alburnett	20+45.51	22+20.99	Right	30.0	6.0	177.0	22+20.99	DR-303	9.9	
10.0	Alburnett	22+77.80	23+60.53	Right	30.0	6.0	106.0	23+64.35	DR-303	5.9	
11.0	Alburnett	23+68.16	24+58.77	Right	30.0	6.0	94.0	24+58.77	DR-303	5.2	
12.0	Alburnett	25+83.60	24+66.40	Right	30.0	6.0	119.0	24+66.40	DR-303	6.6	
13.0	Alburnett	27+98.50	25+91.03	Left	30.0	6.0	207.0	25+91.03	DR-303	11.6	
14.0	Alburnett	27+98.50	25+91.52	Right	30.0	6.0	207.0	25+91.52	DR-303	11.6	
15.0	Alburnett	27+98.50	27+98.50		30.0	6.0	44.0	27+98.50	DR-303	3.3	
16.0	Alburnett	31+23.83	31+23.83		30.0	6.0	44.0	31+23.83	DR-303	3.3	
17.0	Alburnett	31+24.83	32+98.00	Left	40.0	6.0	173.0	32+98.00	DR-303	15.1	
18.0	Alburnett	31+24.83	32+98.00	Right	30.0	6.0	173.0	32+98.00	DR-303	12.2	
19.0	Alburnett	33+02.00	33+66.00	Right	30.0	6.0	64.0	33+02.00	DR-303	3.6	
20.0	7th Ave	108+00.17	109+74.88	Left	30.0	6.0	175.0	109+74.88	DR-303	9.7	
21.0	7th Ave	108+00.16	109+74.90	Right	30.0	6.0	175.0	109+74.90	DR-303	9.7	
22.0	7th Ave	109+78.61	111+79.35	Left	30.0	6.0	210.0	109+78.61	DR-303	11.7	
23.0	7th Ave	111+32.50	113+56.77	Right	30.0	6.0	210.0	111+32.50	DR-303	11.7	
24.0	7th Ave	113+63.81	114+68.51	Right	30.0	6.0	105.0	113+63.81	DR-303	5.8	
25.0	7th Ave	115+70.76	116+04.03	Right	30.0	6.0	33.0	115+70.76	DR-303	1.9	
26.0	8th Ave	217+42.48	217+42.48		30.0	6.0	40.0	217+42.48	DR-303	2.2	
27.0	8th Ave	217+43.48	218+32.76	Left	30.0	6.0	89.0	217+43.48	DR-303	5.0	
28.0	8th Ave	218+40.68	220+07.06	Left	30.0	6.0	166.0	218+40.68	DR-303	9.2	
29.0	9th Ave	320+16.83	320+45.00	Left	30.0	6.0	46.0	320+16.83	DR-303	3.4	
30.0	9th Ave	320+52.93	321+87.70	Left	30.0	6.0	135.0	320+52.93	DR-303	7.5	
31.0	9th Ave	320+17.30	321+87.85	Right	30.0	6.0	171.0	320+17.30	DR-303	9.5	
32.0	2nd St	123+26.40	124+79.95	Left	40.0	6.0	148.0	123+26.40	DR-303	12.8	
33.0	2nd St	122+85.14	124+79.97	Right	40.0	6.0	218.0	122+85.14	DR-303	18.9	
34.0	Boyson	449+03.70	451+70.66	Left	30.0	6.0	273.0	449+03.70	DR-305 Type A	15.2	
35.0	Boyson/Alburnett	451+78.58	56+28.68	Left	30.0	6.0	384.0	451+78.58	DR-303	21.4	
36.0	Boyson	451+78.94	454+98.68	Right	30.0	6.0	332.0	451+78.94	DR-303	18.5	
37.0	Alburnett	54+30.05	54+69.51	Left	30.0	6.0	40.0	54+30.05	DR-303	2.2	
38.0	Alburnett	54+29.19	54+94.02	Right	30.0	6.0	67.0	54+29.19	DR-303	3.7	
39.0	Boyson	455+53.91	456+02.02	Right	30.0	6.0	50.0	456+02.02	DR-303	2.8	

TOTAL 6'' SUBDRAIN (LF) - 6170.6
TOTAL SUBDRAIN OUTLET, DR-303 (EA) - 40
TOTAL SUBDRAIN OUTLET, DR-305 (EA) - 1
TOTAL SUBDRAIN CLEANOUT, TYPE B, 24'' (EA) - 17

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663 Sheet C.15

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

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Project No: 116.0663
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105_04
4/21/26

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
BA-401	4/20/2021	TEMPORARY BARRIER RAIL (PRECAST CONCRETE)
BR-101	4/21/2026	BRIDGE APPROACH SECTION (GENERAL DETAILS)
BR-203	4/21/2026	DOUBLE REINFORCED 12 APPROACH
DR-101	4/18/2017	PIPE CULVERT (BEDDING AND BACKFILL)
DR-102	4/21/2015	PIPE CULVERT (COVER AND CAMBER)
DR-103	4/21/2015	PIPE CULVERT (INSTALLATION DETAILS)
DR-104	4/19/2016	DEPTH OF COVER TABLES FOR CONCRETE AND CORRUGATED PIPE
DR-121	4/18/2023	CONNECTED PIPE JOINTS
DR-141	04-18-17	Pipe Bends and Half Pipe
DR-201	10/17/2023	CONCRETE APRONS
DR-213	10/18/2022	PIPE APRON GUARD
DR-303	10/17/2017	SUBDRAINS (LONGITUDINAL)
DR-305	4/19/2022	SUBDRAIN OUTLETS (STANDARD SUBDRAIN, PRESSURE RELEASE AND SPECIAL)
EC-104	4/17/2018	TURF REINFORCEMENT MAT (TRM)
EC-201	4/20/2021	SILT FENCE
EC-202	10/21/2014	FLOATING SILT CURTAIN
EC-204	10/19/2021	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES
EC-303	10/19/2021	STABILIZED CONSTRUCTION ENTRANCE
EC-602	10/15/2024	OPEN-THROAT CURB INTAKE SEDIMENT FILTER
EC-604	10/17/2023	GRATE INTAKE SEDIMENT FILTER BAG
EW-101	10/17/2017	EMBANKMENT AND REBUILDING EMBANKMENTS
EW-102	10/20/2015	ALLOWABLE PLACEMENT OF UNSUITABLE SOIL IN EMBANKMENTS
EW-401	10-20-15	Temporary Stream Crossing, Causeway, or Equipment Pad
MI-102	10/20/2015	CHAIN LINK FENCE CONSTRUCTION
MI-210	10/21/2025	PCC DRIVEWAYS AND ALLEYS
MI-220	4/15/2025	DETECTABLE WARNINGS AND PEDESTRIAN RAMP
PM-110	10/15/2024	LINE TYPES
PM-111	4/21/2020	SYMBOLS AND LEGENDS
PM-115	4/15/2025	GROOVING FOR LINE TYPES
PM-116	4/16/2024	GROOVING FOR SYMBOLS AND LEGENDS
PR-103	10/21/2025	FULL DEPTH PCC PATCH WITH DOWELS
PV-101	10/21/2025	JOINTS
PV-102	10/21/2025	PCC CURB DETAILS
PV-103	10/21/2025	MANHOLE BOXOUTS IN PACC PAVEMENT
PV-104	10/21/2025	RAMPED MEDIAN NOSE
SI-101	4/19/2016	LOCATIONS - TYPE 'A' SIGNS
SI-131	10/18/2016	INSTALLATION - TYPE 'A' SIGNS
SI-173	4/19/2016	OBJECT MARKERS
SW-101	10/21/2025	TRENCH BEDDING AND BACKFILL ZONES
SW-102	10/21/2025	RIGID GRAVITY PIPE TRENCH BEDDING
SW-103	10/21/2025	FLEXIBLE GRAVITY PIPE TRENCH BEDDING
SW-104	10/21/2025	PRESSURE PIPE TRENCH BEDDING
SW-201	10/21/2025	SANITARY SEWER SERVICE STUB
SW-203	10/21/2025	SANITARY SEWER CLEANOUT
SW-211	10/21/2025	STORM SEWER PIPE CONNECTIONS
SW-301	10/21/2025	CIRCULAR SANITARY SEWER MANHOLE
SW-308	10/21/2025	INTERNAL DROP CONNECTION FOR SANITARY SEWER MANHOLE
SW-401	10/21/2025	CIRCULAR STORM SEWER MANHOLE
SW-501	10/21/2025	SINGLE GRATE INTAKE
SW-502	10/21/2025	CIRCULAR SINGLE GRATE INTAKE
SW-505	10/21/2025	DOUBLE GRATE INTAKE
SW-506	10/21/2025	DOUBLE GRATE INTAKE WITH MANHOLE
SW-507	10/21/2025	SINGLE OPEN-THROAT CURB INTAKE, SMALL BOX
SW-509	10/21/2025	DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX
SW-510	10/21/2025	DOUBLE OPEN-THROAT CURB INTAKE, LARGE BOX

105_04
4/21/26

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
SW-512	10/21/2025	CIRCULAR AREA INTAKE
SW-514	10/21/2025	BOXOUT FOR GRATE INTAKES
SW-541	10/21/2025	OPEN-THROAT CURB INTAKE UNDER PAVEMENT
SW-542	10/21/2025	EXTENSION UNIT FOR OPEN-THROAT CURB INTAKE UNDER PAVEMENT
SW-601	10/21/2025	CASTINGS FOR SANITARY SEWER MANHOLES
SW-602	10/21/2025	CASTINGS FOR STORM SEWER MANHOLES
SW-603	10/21/2025	CASTINGS FOR GRATE INTAKES
SW-604	10/21/2025	CASTINGS FOR AREA INTAKES
TC-1	10/15/2019	WORK NOT AFFECTING TRAFFIC (TWO-LANE OR MULTI-LANE)
TC-202	4/18/2023	WORK WITHIN 15 FT OF TRAVELED WAY
TC-216	4/18/2023	LANE CLOSURE WITH SIGNALS
TC-251	4/18/2023	TEMPORARY ROAD CLOSURE
TC-419	4/18/2023	LANE CLOSURE ON UNDIVIDED HIGHWAY
TC-421	10/21/2025	LANE CLOSURE WITH TBR
TC-423	4/18/2023	CLOSURE OF TWO ADJACENT LANES ON UNDIVIDED HIGHWAY
TC-601	10/15/2019	PEDESTRIAN DETOUR
WM-101	10/21/2025	THRUST BLOCKS
WM-102	10/21/2025	TRACER SYSTEM
WM-201	10/21/2025	FIRE HYDRANT ASSEMBLY

302_99
Modified

PAVEMENT MARKINGS REMOVED

Line No.	Station Offset From	Station Offset To	Length (FT)	Pavement Marking Type	Factor	Factored STA
1	45+30.50, 5.72' LT	48+02.09, 5.64' LT	271.59	NPY4	.83	2.25
2	45+30.74, 4.52' RT	48+02.39, 5.42' RT	271.58	NPY4	.83	2.25
3	48+64.77, 5.41' RT	51+14.26, 7.48' RT	246.53	NPY4	.83	2.1
4	48+65.10, 7.62' LT	51+14.38, 7.74' LT	252.50	NPY4	.83	2.1
5	51+95.83, 8.45' LT	54+77.24, 8.26' LT	283.10	DCY4	1.33	3.8
6	51+96.47, 6.40' RT	52+52.56, 5.94' RT	55.53	NPY4	.83	.5
7	53+43.67, 7.19' RT	54+74.82, 7.26' RT	131.15	SLW4	.67	.9
8	54+76.25, 7.64' LT	54+75.46, 19.63' RT	27.28	SLW2	4	1.1
9	213+79.15, 7.33' LT	215+55.19, 6.12' LT	175.79	NPY4	1.25	2.2
10	449+05.04, 0.26' RT	451+65.43, 0.04' RT	260.4	DCY4	1.33	3.5
11	451+85.07, 0.02' RT	454+05.49, 0.17' LT	235.8	DCY4	1.33	3.14
12	456+42.87, 0.86' LT	458+78.71, 0.37' RT	235.8	NPY4	1.25	3.0
13	459+73.28, 0.76' LT	462+97.74, 0.09' RT	850.8	ELY4	.67	5.7
14	462+97.74, 0.09' RT	464+53.85, 0.10' RT	156.1	DCY4	1.33	2.1
15	463+38.59, 23.44' RT	464+95.17, 23.68' RT	156.6	SLW4	.67	1.1
16	463+63.24, 11.27' RT	464+85.34, 11.56' RT	122.1	SLW4	.67	0.8
17	464+53.85, 0.10' RT	464+53.73, 11.35' RT	11.3	SLW2	4	0.5
18	464+85.34, 11.56' RT	464+85.21, 23.66' RT	12.1	SLW2	4	0.5
19	464+95.17, 23.68' RT	464+94.65, 37.94' RT	14.3	SLW2	4	.57
20	53+81.83, 3.45' LT			SYMBOL		
21	54+54.74, 3.46' LT			SYMBOL		
22	463+53.30, 2.81' RT			SYMBOL		
23	463+85.59, 7.51' RT			SYMBOL		
24	464+02.70, 33.56' RT			SYMBOL		
25	464+28.74, 3.74' RT			SYMBOL		
26	464+31.73, 30.25' RT			SYMBOL		
27	464+70.14, 34.17' RT			SYMBOL		

TOTAL PAVEMENT MARKINGS REMOVED (STA) - 38.1
TOTAL SYMBOLS REMOVED (EA) - 8

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026 | Sheet C.16
Project No: 116.0663

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663
Sheet C.16

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PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17 BCY6: Broken Centerline (Yellow) @ 0.25 BLC6: Broken Line Contrast (White/Black) @ 0.50 BLW4: Broken Lane Line (White) @ 0.17 BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 CHW8: Channelizing Line (White) @ 1.33 CHW10: Channelizing Line (White) @ 1.67 CHY8: Channelizing Line (Yellow) @ 1.33 CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 DCY4: Double Centerline (Yellow) @ 1.34 DCY6: Double Centerline (Yellow) @ 2.00 DDY4: Double Dotted Line (Yellow) @ 0.44 DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 DLW6: Dotted Line (White) @ 0.33 DLY4: Dotted Line (Yellow) @ 0.22 DLY6: Dotted Line (Yellow) @ 0.33 ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 ELY4: Edge Line Left (Yellow) @ 0.67 ELY6: Edge Line Left (Yellow) @ 1.00 LDW8: Lane Drop (White) @ 0.33 LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 NPY4: No Passing Zone Line (Yellow) @ 0.84 NPY6: No Passing Zone Line (Yellow) @ 1.25 RLW4: Ramp Edge Line Right (White) @ 0.67 RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 RLY6: Ramp Edge Line Left (Yellow) @ 1.00 SLW2: Stop Line (White) @ 4.00 SLW4: Solid Lane Line (White) @ 0.67 SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 SPW6: Sloped Curb 6" (White) @ 2.28 SPY4: Sloped Curb 4" (Yellow) @ 2.16 SPY6: Sloped Curb 6" (Yellow) @ 2.03 STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Groove Marking Needed?	Groove Qty. (STA)	BLW4 (STA)	BLW4 Factored (STA)	CBW6 (STA)	CBW6 Factored (STA)	CHW8 (STA)	CHW8 Factored (STA)	DCY4 (STA)	DCY4 Factored (STA)	DLW4 (STA)	DLW4 Factored (STA)	ELW4 (STA)	ELW4 Factored (STA)	ELY4 (STA)	ELY4 Factored (STA)	NPY4** (STA)	* Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	SLW4 (STA)	SLW4 Factored (STA)	YLW2 (STA)	YLW2 Factored (STA)
1.0	Alburnett	12+58.84	12+77.74	All	Durable Paint	Yes	4.10			0.41	4.10																		
2.0	Alburnett	12+75.48	12+75.48	SB	Durable Paint	Yes	0.68																	0.17	0.68				
3.0	Alburnett	12+78.27	12+78.27	SB	Durable Paint	Yes	0.48																	0.12	0.48				
4.0	Alburnett	12+75.48	14+87.27	SB	Durable Paint	Yes	0.47									2.15	0.47												
5.0	Alburnett	12+75.48	14+19.20	SB	Durable Paint	Yes	0.97																			1.45	0.97		
6.0	Alburnett	12+78.05	16+31.71	Center	Durable Paint	Yes	54.74							3.54	4.74														
7.0	Alburnett	12+95.86	15+81.71	NB	Durable Paint	Yes	1.90											2.83	1.90										
8.0	Alburnett	14+87.27	16+29.26	SB	Durable Paint	Yes	0.95																			1.42	0.95		
9.0	Alburnett	15+81.71	16+31.71	NB	Durable Paint	Yes	0.11									0.50	0.11												
10.0	Alburnett	14+91.71	16+31.71	NB	Durable Paint	Yes	0.94																			1.40	0.94		
11.0	Alburnett	16+31.71	16+31.71	NB	Durable Paint	Yes	1.14																	0.28	1.14				
12.0	Alburnett	16+45.71	16+45.71	All	Durable Paint	Yes	3.55			0.35	3.55																		
13.0	Alburnett	17+15.19	17+24.93	All	Durable Paint	Yes	3.55			0.35	3.55																		
14.0	Alburnett	17+29.22	17+29.01	SB	Durable Paint	Yes	1.15																	0.29	1.15				
15.0	Alburnett	17+29.18	17+79.10	SB	Durable Paint	Yes	0.11									0.50	0.11												
16.0	Alburnett	17+29.10	18+54.03	SB	Durable Paint	Yes	0.84																			1.25	0.84		
17.0	Alburnett	17+29.02	19+04.01	Both	Durable Paint	Yes	2.35							1.75	2.35														
18.0	Alburnett	17+33.03	19+05.81	NB	Durable Paint	Yes	1.15											1.71	1.15										
19.0	Alburnett	17+79.10	25+27.74	SB	Durable Paint	Yes	4.95											7.39	4.95										
20.0	Alburnett	19+04.01	19+55.81	SB	Durable Paint	Yes	0.44															0.52	0.44						
21.0	Alburnett	19+04.01	19+55.81	NB	Durable Paint	Yes	0.44															0.52	0.44						
22.0	Alburnett	19+05.81	19+55.81	NB	Durable Paint	Yes	0.11									0.50	0.11												
23.0	Alburnett	20+32.44	22+29.49	SB	Durable Paint	Yes	1.65															1.97	1.65						
24.0	Alburnett	20+32.44	22+29.49	NB	Durable Paint	Yes	1.66															1.98	1.66						
25.0	Alburnett	20+32.44	21+80.83	NB	Durable Paint	Yes	1.00											1.49	1.00										
26.0	Alburnett	21+80.83	22+29.49	NB	Durable Paint	Yes	0.11									0.50	0.11												
27.0	Alburnett	22+98.25	23+72.63	SB	Durable Paint	Yes	0.49																			0.74	0.49		
28.0	Alburnett	22+98.25	24+37.85	Both	Durable Paint	Yes	1.89							1.41	1.89														
29.0	Alburnett	22+98.25	25+27.74	NB	Durable Paint	Yes	1.58											2.35	1.58										
30.0	Alburnett	23+86.61	24+37.20	Both	Durable Paint	Yes	0.69							0.52	0.69														
31.0	Alburnett	24+37.20	25+27.74	SB	Durable Paint	Yes	0.60													0.90	0.60								
32.0	Alburnett	24+37.85	25+27.74	NB	Durable Paint	Yes	0.61													0.91	0.61								
32.5	Alburnett	25+10.76	25+10.76	EB	Durable Paint	Yes	0.09																					0.08	0.09
33.0	Alburnett	25+34.76	25+34.76	SB	Durable Paint	Yes	1.40			0.14	1.40																		
34.0	Alburnett	25+34.76	25+34.76	NB	Durable Paint	Yes	1.40			0.14	1.40																		
35.0	Alburnett	25+41.79	33+50.00	SB	Durable Paint	Yes	5.42											8.09	5.42										
36.0	Alburnett	25+41.79	27+63.75	SB	Durable Paint	Yes	1.49													2.22	1.49								
37.0	Alburnett	25+41.79	27+63.79	NB	Durable Paint	Yes	1.49													2.22	1.49								
38.0	Alburnett	25+41.79	33+50.00	NB	Durable Paint	Yes	5.42											8.09	5.42										
38.5	Alburnett	25+58.76	25+58.76	SB	Durable Paint	Yes	0.09																					0.08	0.09
39.0	Alburnett	27+63.75	29+17.94	SB	Durable Paint	Yes	2.07							1.54	2.07														
40.0	Alburnett	27+63.79	29+17.94	NB	Durable Paint	Yes	2.07							1.54	2.07														
41.0		27+78.24	27+87.69	Both			0.18					0.13	0.18																

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663 Sheet C.17

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663
Sheet C.17

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PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17 | BCY6: Broken Centerline (Yellow) @ 0.25 | BLC6: Broken Line Contrast (White/Black) @ 0.50 | BLW4: Broken Lane Line (White) @ 0.17 | BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 | CHW8: Channelizing Line (White) @ 1.33 | CHW10: Channelizing Line (White) @ 1.67 | CHY8: Channelizing Line (Yellow) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 | DCY4: Double Centerline (Yellow) @ 1.34 | DCY6: Double Centerline (Yellow) @ 2.00 | DDY4: Double Dotted Line (Yellow) @ 0.44 | DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 | DLW6: Dotted Line (White) @ 0.33 | DLY4: Dotted Line (Yellow) @ 0.22 | DLY6: Dotted Line (Yellow) @ 0.33 | ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 | ELY4: Edge Line Left (Yellow) @ 0.67 | ELY6: Edge Line Left (Yellow) @ 1.00 | LDW8: Lane Drop (White) @ 0.33 | LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 | NPY4: No Passing Zone Line (Yellow) @ 0.84 | NPY6: No Passing Zone Line (Yellow) @ 1.25 | RLW4: Ramp Edge Line Right (White) @ 0.67 | RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 | RLY6: Ramp Edge Line Left (Yellow) @ 1.00 | SLW2: Stop Line (White) @ 4.00 | SLW4: Solid Lane Line (White) @ 0.67 | SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 | SPW6: Sloped Curb 6" (White) @ 2.28 | SPY4: Sloped Curb 4" (Yellow) @ 2.16 | SPY6: Sloped Curb 6" (Yellow) @ 2.28 | STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 | YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Groove Marking Needed?	Groove Qty. (STA)	BLW4 (STA)	BLW4 Factored (STA)	CBW6 (STA)	CBW6 Factored (STA)	CHW8 (STA)	CHW8 Factored (STA)	DCY4 (STA)	DCY4 Factored (STA)	DLW4 (STA)	DLW4 Factored (STA)	ELW4 (STA)	ELW4 Factored (STA)	ELY4 (STA)	ELY4 Factored (STA)	NPY4** (STA)	* Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	SLW4 (STA)	SLW4 Factored (STA)	YLW2 (STA)	YLW2 Factored (STA)
42.0	Alburnett	27+98.96	28+07.01	Both	Durable Paint	Yes	0.15					0.11	0.15																
43.0	Alburnett	28+19.69	28+26.33	Both	Durable Paint	Yes	0.13					0.09	0.13																
44.0	Alburnett	28+40.41	28+45.66	Center	Durable Paint	Yes	0.10					0.07	0.10																
45.0	Alburnett	28+61.14	28+64.98	Both	Durable Paint	Yes	0.07					0.05	0.07																
46.0	Alburnett	29+17.94	30+05.34	Both	Durable Paint	Yes	1.17							0.87	1.17														
47.0	Alburnett	30+05.34	31+59.87	Both	Durable Paint	Yes	2.07							1.55	2.07														
48.0	Alburnett	30+05.34	31+59.78	Both	Durable Paint	Yes	2.07							1.55	2.07														
49.0	Alburnett	30+61.17	30+65.22	Both	Durable Paint	Yes	0.08					0.06	0.08																
50.0	Alburnett	30+80.50	30+85.95	Both	Durable Paint	Yes	0.10					0.08	0.10																
51.0	Alburnett	30+99.82	31+06.67	Both	Durable Paint	Yes	0.13					0.10	0.13																
52.0	Alburnett	31+19.15	31+27.40	Both	Durable Paint	Yes	0.16					0.12	0.16																
53.0	Alburnett	31+38.47	31+48.13	Both	Durable Paint	Yes	0.18					0.14	0.18																
54.0	Alburnett	31+59.87	33+50.00	SB	Durable Paint	Yes	1.27													1.90	1.27								
55.0	Alburnett	31+59.78	33+50.00	NB	Durable Paint	Yes	1.27													1.90	1.27								
56.0	Alburnett	45+30.50	46+04.62	SB	Durable Paint	Yes	0.50																			0.74	0.50		
57.0	Alburnett	45+30.74	48+02.09	Both	Durable Paint	Yes	3.64							2.72	3.64														
58.0	Alburnett	47+27.97	48+02.32	NB	Durable Paint	Yes	0.50																			0.74	0.50		
59.0	Alburnett	48+02.50	54+25.55	NB	Durable Paint	Yes	4.08											6.10	4.08										
60.0	Alburnett	48+78.98	49+27.64	SB	Durable Paint	Yes	0.11									0.50	0.11												
61.0	Alburnett	48+84.49	50+29.30	Center	Durable Paint	Yes	1.96							1.46	1.96														
62.0	Alburnett	48+84.49	50+29.30	Center	Durable Paint	Yes	2.02							1.51	2.02														
63.0	Alburnett	49+00.80	49+08.27	Both	Durable Paint	Yes	0.18					0.13	0.18																
64.0	Alburnett	49+17.83	49+25.26	Both	Durable Paint	Yes	0.18					0.13	0.18																
65.0	Alburnett	49+34.87	49+41.89	Both	Durable Paint	Yes	0.17					0.13	0.17																
66.0	Alburnett	49+51.91	49+58.62	Both	Durable Paint	Yes	0.15					0.12	0.15																
67.0	Alburnett	49+68.96	49+74.53	Both	Durable Paint	Yes	0.13					0.10	0.13																
68.0	Alburnett	49+86.00	49+90.23	Both	Durable Paint	Yes	0.10					0.08	0.10																
69.0	Alburnett	50+03.04	50+05.94	Both	Durable Paint	Yes	0.07					0.05	0.07																
70.0	Alburnett	49+27.64	51+14.48	SB	Durable Paint	Yes	1.29											1.92	1.29										
71.0	Alburnett	50+20.30	51+14.48	Both	Durable Paint	Yes	1.15							0.86	1.15														
72.0	Alburnett	50+39.39	51+14.48	NB	Durable Paint	Yes	0.50																			0.74	0.50		
73.0	Alburnett	51+90.72	54+75.11	Both	Durable Paint	Yes	3.83							2.86	3.83														
74.0	Alburnett	51+90.72	52+74.33	Both	Durable Paint	Yes	1.17							0.87	1.17														
75.0	Alburnett	52+02.04	52+10.80	Both	Durable Paint	Yes	0.17					0.13	0.17																
76.0	Alburnett	52+21.18	52+29.56	Both	Durable Paint	Yes	0.16					0.12	0.16																
77.0	Alburnett	52+40.93	52+46.83	Both	Durable Paint	Yes	0.11					0.08	0.11																
78.0	Alburnett	52+61.37	52+63.92	Both	Durable Paint	Yes	0.05					0.03	0.05																
79.0	Alburnett	51+96.15	52+44.81	SB	Durable Paint	Yes	0.11									0.50	0.11												
80.0	Alburnett	52+44.81	54+76.87	SB	Durable Paint	Yes	1.57											2.34	1.57										
81.0	Alburnett	52+84.24	54+75.11	NB	Durable Paint	Yes	1.28																			1.91	1.28		
82.0	Alburnett	54+25.55	54+75.11	NB	Durable Paint	Yes	0.11									0.50	0.11												
83.0	Alburnett	54+75.11	54+75.11	NB	Durable Paint	Yes	1.12																	0.28	1.12				
84.0	Alburnett	54+85.10	54+85.11	Both	Durable Paint	Yes	4.15			0.41	4.15																		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026

Project No: 116.0663 | Sheet C.18

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

SNYDER & ASSOCIATES, INC.
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SNYDER & ASSOCIATES

Project No: 116.0663
Sheet C.18

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PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17 BCY6: Broken Centerline (Yellcw) @ 0.25 BLC6: Broken Line Contrast (White/Black) @ 0.50 BLW4: Broken Lane Line (White) @ 0.17 BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 CHW8: Channelizing Line (White) @ 1.33 CHW10: Channelizing Line (White) @ 1.67 CHY8: Channelizing Line (Yellow) @ 1.33 CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 DCY4: Double Centerline (Yellow) @ 1.34 DCY6: Double Centerline (Yellow) @ 2.00 DDY4: Double Dotted Line (Yellow) @ 0.44 DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 DLW6: Dotted Line (White) @ 0.33 DLY4: Dotted Line (Yellow) @ 0.22 DLY6: Dotted Line (Yellow) @ 0.33 ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 ELY4: Edge Line Left (Yellow) @ 0.67 ELY6: Edge Line Left (Yellow) @ 1.00 LDW8: Lane Drop (White) @ 0.33 LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 NPY4: No Passing Zone Line (Yellow) @ 0.84 NPY6: No Passing Zone Line (Yellow) @ 1.25 RLW4: Ramp Edge Line Right (White) @ 0.67 RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 RLY6: Ramp Edge Line Left (Yellow) @ 1.00 SLW2: Stop Line (White) @ 4.00 SLW4: Solid Lane Line (White) @ 0.67 SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 SPW6: Sloped Curb 6" (White) @ 2.28 SPY4: Sloped Curb 4" (Yellow) @ 2.16 SPY6: Sloped Curb 6" (Yellow) @ 2.28 STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Groove Marking Needed?	Groove Qty. (STA)	BLW4 (STA)	BLW4 Factored (STA)	CBW6 (STA)	CBW6 Factored (STA)	CHW8 (STA)	CHW8 Factored (STA)	DCY4 (STA)	DCY4 Factored (STA)	DLW4 (STA)	DLW4 Factored (STA)	ELW4 (STA)	ELW4 Factored (STA)	ELY4 (STA)	ELY4 Factored (STA)	NPY4** (STA)	* Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	SLW4 (STA)	SLW4 Factored (STA)	YLW2 (STA)	YLW2 Factored (STA)
85.0	Alburnett	55+63.73	55+62.70	Both	Durable Paint	Yes	4.65			0.47	4.65																		
86.0	7th Ave	107+99.30	111+76.15	WB	Durable Paint	Yes	0.65	3.81	0.65																				
87.0	7th Ave	107+99.30	111+76.15	EB	Durable Paint	Yes	0.63	3.72	0.63																				
88.0	7th Ave	107+99.30	109+80.70	WB	Durable Paint	Yes	0.68													1.01	0.68								
89.0	7th Ave	107+99.30	109+80.70	EB	Durable Paint	Yes	1.22											1.81	1.22										
90.0	7th Ave	109+80.70	111+76.15	Both	Durable Paint	Yes	2.64							1.97	2.64														
91.0	7th Ave	109+80.70	110+41.63	Both	Durable Paint	Yes	0.83							0.62	0.83														
92.0	7th Ave	109+93.30	110+00.29	Both	Durable Paint	Yes	0.14					0.10	0.14																
93.0	7th Ave	110+12.65	110+16.33	Both	Durable Paint	Yes	0.07					0.05	0.07																
94.0	7th Ave	110+50.70	111+76.15	EB	Durable Paint	Yes	0.83																			1.24	0.83		
95.0	7th Ave	111+76.15	111+76.15	EB	Durable Paint	Yes	1.58																	0.39	1.58				
96.0	7th Ave	112+79.24	112+79.38	WB	Durable Paint	Yes	2.45			0.24	2.45																		
97.0	7th Ave	112+79.45	112+79.60	EB	Durable Paint	Yes	2.45			0.24	2.45																		
98.0	7th Ave	112+86.76	112+87.28	WB	Durable Paint	Yes	1.04																	0.26	1.04				
99.0	7th Ave	112+84.20	113+70.33	EB	Durable Paint	Yes	0.57													0.85	0.57								
100.0	7th Ave	112+87.28	113+69.82	WB	Durable Paint	Yes	0.56													0.83	0.56								
101.0	7th Ave	112+84.48	116+04.03	EB	Durable Paint	Yes	0.54	3.16	0.54																				
102.0	7th Ave	112+87.03	116+04.05	WB	Durable Paint	Yes	2.15																			3.20	2.15		
103.0	7th Ave	113+69.82	116+04.04	Both	Durable Paint	Yes	3.14							2.34	3.14														
104.0	7th Ave	113+70.33	114+59.65	Both	Durable Paint	Yes	1.19							0.89	1.19														
105.0	7th Ave	113+81.85	113+87.17	Both	Durable Paint	Yes	0.09					0.07	0.09																
106.0	7th Ave	114+03.48	114+05.87	Both	Durable Paint	Yes	0.04					0.03	0.04																
107.0	7th Ave	114+22.86	114+25.12	Both	Durable Paint	Yes	0.04					0.03	0.04																
108.0	8th Ave	212+40.81	214+52.62	WB	Durable Paint	Yes	1.78															2.12	1.78						
109.0	8th Ave	212+40.78	214+54.42	EB	Durable Paint	Yes	1.80															2.14	1.80						
110.0	8th Ave	214+52.62	216+27.59	Both	Durable Paint	Yes	2.34							1.75	2.34														
111.0	8th Ave	215+02.59	216+27.57	EB	Durable Paint	Yes	0.84																			1.25	0.84		
112.0	8th Ave	215+44.36	216+27.56	EB	Durable Paint	Yes	0.18									0.83	0.18												
113.0	8th Ave	216+27.59	216+27.55	EB	Durable Paint	Yes	1.14																	0.28	1.14				
114.0	8th Ave	217+24.12	217+24.13	Both	Durable Paint	Yes	3.90			0.39	3.90																		
115.0	8th Ave	217+33.12	217+33.12	WB	Durable Paint	Yes	1.14																	0.28	1.14				
116.0	8th Ave	217+33.12	217+83.12	WB	Durable Paint	Yes	0.11									0.50	0.11												
117.0	8th Ave	217+33.12	218+73.12	WB	Durable Paint	Yes	0.94																			1.40	0.94		
118.0	8th Ave	16+75.53	220+20.15	Both	Durable Paint	Yes	4.39							3.27	4.39														
119.0	8th Ave	217+32.12	219+70.80	EB	Durable Paint	Yes	1.60											2.39	1.60										
120.0	8th Ave	217+83.12	220+20.72	WB	Durable Paint	Yes	1.59											2.38	1.59										
121.0	8th Ave	218+83.59	220+20.15	Both	Durable Paint	Yes	1.84							1.38	1.84														
122.0	8th Ave	219+70.80	220+20.74	EB	Durable Paint	Yes	0.11									0.50	0.11												
123.0	8th Ave	220+20.72	220+59.55	WB	Durable Paint	Yes	0.09									0.39	0.09												
124.0	8th Ave	219+08.53	219+12.17	Both	Durable Paint	Yes	0.07					0.05	0.07																
125.0	8th Ave	219+25.19	219+32.17	Both	Durable Paint	Yes	0.13					0.10	0.13																
126.0	8th Ave	219+44.07	219+50.94	Both	Durable Paint	Yes	0.13					0.10	0.13																
127.0	8th Ave	219+65.17	219+69.80	Both	Durable Paint	Yes	0.09					0.07	0.09																

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION		

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663 Sheet C.19

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663
Sheet C.19

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PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
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STY6: Standard Curb 6" (Yellow) @ 2.03 YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Groove Marking Needed?	Groove Qty. (STA)	BLW4 (STA)	BLW4 Factored (STA)	CBW6 (STA)	CBW6 Factored (STA)	CHW8 (STA)	CHW8 Factored (STA)	DCY4 (STA)	DCY4 Factored (STA)	DLW4 (STA)	DLW4 Factored (STA)	ELW4 (STA)	ELW4 Factored (STA)	ELY4 (STA)	ELY4 Factored (STA)	NPY4** (STA)	* Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	SLW4 (STA)	SLW4 Factored (STA)	YLW2 (STA)	YLW2 Factored (STA)
128.0	8th Ave	219+86.26	219+88.62	Both	Durable Paint	Yes	0.04					0.03	0.04																
129.0	Boyson	449+05.04	454+61.73	Both	Durable Paint	Yes	7.46							5.57	7.46														
130.0	Boyson	450+00.93	453+19.26	Both	Durable Paint	Yes	4.28							3.20	4.28														
131.0	Boyson	450+65.48	450+66.59	Both	Durable Paint	Yes	0.02					0.02	0.02																
132.0	Boyson	450+84.79	450+86.69	Both	Durable Paint	Yes	0.04					0.03	0.04																
133.0	Boyson	451+04.23	451+06.69	Both	Durable Paint	Yes	0.05					0.03	0.05																
134.0	Boyson	451+23.53	451+26.69	Both	Durable Paint	Yes	0.06					0.04	0.06																
135.0	Boyson	451+42.80	451+46.70	Both	Durable Paint	Yes	0.07					0.06	0.07																
136.0	Boyson	451+62.14	451+66.71	Both	Durable Paint	Yes	0.09					0.06	0.09																
137.0	Boyson	451+81.35	451+86.70	Both	Durable Paint	Yes	0.10					0.08	0.10																
138.0	Boyson	452+00.67	452+06.69	Both	Durable Paint	Yes	0.11					0.09	0.11																
139.0	Boyson	452+19.93	452+26.70	Both	Durable Paint	Yes	0.13					0.10	0.13																
140.0	Boyson	452+39.22	452+46.71	Both	Durable Paint	Yes	0.14					0.11	0.14																
141.0	Boyson	452+58.54	452+65.32	Both	Durable Paint	Yes	0.13					0.10	0.13																
142.0	Boyson	452+77.76	452+82.24	Both	Durable Paint	Yes	0.08					0.06	0.08																
143.0	Boyson	452+86.47	454+62.36	EB	Durable Paint	Yes	1.18																			1.76	1.18		
144.0	Boyson	453+29.26	454+62.04	EB	Durable Paint	Yes	1.72																			2.57	1.72		
145.0	Boyson	454+61.73	454+62.70	EB	Durable Paint	Yes	1.52																	0.38	1.52				
146.0	Boyson	454+71.49	454+72.87	Both	Durable Paint	Yes	4.50			0.45	4.50																		
147.0	Boyson	455+62.11	455+62.65	Both	Durable Paint	Yes	3.90			0.39	3.90																		
148.0	Boyson	455+72.08	455+72.50	WB	Durable Paint	Yes	1.14																	0.28	1.14				
149.0	Boyson	455+72.46	457+46.50	WB	Durable Paint	Yes	1.16																			1.74	1.16		
150.0	Boyson	455+72.50	458+90.10	Both	Durable Paint	Yes	4.26							3.18	4.26														
151.0	Boyson	457+56.50	458+90.10	Both	Durable Paint	Yes	1.82							1.36	1.82														
152.0	Boyson	457+89.99	457+93.59	Both	Durable Paint	Yes	0.07					0.05	0.07																
153.0	Boyson	458+07.73	458+13.23	Both	Durable Paint	Yes	0.11					0.08	0.11																
154.0	Boyson	458+25.47	458+32.87	Both	Durable Paint	Yes	0.14					0.11	0.14																
155.0	Boyson	458+43.26	458+52.51	Both	Durable Paint	Yes	0.18					0.14	0.18																
156.0	Boyson	458+63.18	458+72.16	Both	Durable Paint	Yes	0.17					0.13	0.17																
157.0	Boyson	459+73.04	460+48.01	WB	Durable Paint	Yes	0.50																			0.75	0.50		
158.0	Boyson	459+72.68	464+54.65	Both	Durable Paint	Yes	6.43							4.80	6.43														
159.0	Boyson	460+57.65	463+09.24	Both	Durable Paint	Yes	3.39							2.53	3.39														
160.0	Boyson	460+76.16	460+79.72	Both	Durable Paint	Yes	0.07					0.05	0.07																
161.0	Boyson	460+92.90	460+99.69	Both	Durable Paint	Yes	0.13					0.10	0.13																
162.0	Boyson	461+09.65	461+19.59	Both	Durable Paint	Yes	0.20					0.15	0.20																
163.0	Boyson	461+27.74	461+39.38	Both	Durable Paint	Yes	0.23					0.17	0.23																
164.0	Boyson	461+47.64	461+59.16	Both	Durable Paint	Yes	0.23					0.17	0.23																
165.0	Boyson	461+67.54	461+78.95	Both	Durable Paint	Yes	0.23					0.17	0.23																
166.0	Boyson	461+87.44	461+98.73	Both	Durable Paint	Yes	0.21					0.16	0.21																
167.0	Boyson	462+07.34	462+17.99	Both	Durable Paint	Yes	0.21					0.16	0.21																
168.0	Boyson	462+27.24	462+35.81	Both	Durable Paint	Yes	0.17					0.13	0.17																
169.0	Boyson	462+47.14	462+53.63	Both	Durable Paint	Yes	0.12					0.09	0.12																
170.0	Boyson	462+67.04	462+71.45	Both	Durable Paint	Yes	0.08					0.06	0.08																

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION	DATE	BY

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663 Sheet C.20

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663
Sheet C.20

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11/25/25

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
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***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17
BCY6: Broken Centerline (Yellow) @ 0.25
BLC6: Broken Line Contrast (White/Black) @ 0.50
BLW4: Broken Lane Line (White) @ 0.17
BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00
CHW8: Channelizing Line (White) @ 1.33
CHW10: Channelizing Line (White) @ 1.67
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00
DCY4: Double Centerline (Yellow) @ 1.34
DCY6: Double Centerline (Yellow) @ 2.00
DDY4: Double Dotted Line (Yellow) @ 0.44
DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22
DLW6: Dotted Line (White) @ 0.33
DLY4: Dotted Line (Yellow) @ 0.22
DLY6: Dotted Line (Yellow) @ 0.33
ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 0.67
ELY6: Edge Line Left (Yellow) @ 1.00
LDW8: Lane Drop (White) @ 0.33
LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00
NPY4: No Passing Zone Line (Yellow) @ 0.84
NPY6: No Passing Zone Line (Yellow) @ 1.25
RLW4: Ramp Edge Line Right (White) @ 0.67
RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 4.00
SLW4: Solid Lane Line (White) @ 0.67
SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16
SPW6: Sloped Curb 6" (White) @ 2.28
SPY4: Sloped Curb 4" (Yellow) @ 2.16
SPY6: Sloped Curb 6" (Yellow) @ 2.28
STW6: Standard Curb 6" (White) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03
YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Groove Marking Needed?	Groove Qty. (STA)	BLW4 (STA)	BLW4 Factored (STA)	CBW6 (STA)	CBW6 Factored (STA)	CHW8 (STA)	CHW8 Factored (STA)	DCY4 (STA)	DCY4 Factored (STA)	DLW4 (STA)	DLW4 Factored (STA)	ELW4 (STA)	ELW4 Factored (STA)	ELY4 (STA)	ELY4 Factored (STA)	NPY4** (STA)	* Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	SLW4 (STA)	SLW4 Factored (STA)	YLW2 (STA)	YLW2 Factored (STA)
171.0	Boyson	462+86.95	462+89.27	Both	Durable Paint	Yes	0.04					0.03	0.04																
172.0	Boyson	463+38.09	464+86.54	EB	Durable Paint	Yes	0.98																			1.46	0.98		
173.0	Boyson	463+38.75	464+95.83	EB	Durable Paint	Yes	1.04																			1.55	1.04		
174.0	Boyson	464+53.65	464+53.65	EB	Durable Paint	Yes	0.52																	0.13	0.52				
175.0	Boyson	464+85.54	464+85.54	EB	Durable Paint	Yes	0.48																	0.12	0.48				
176.0	Boyson	464+94.83	464+94.83	EB	Durable Paint	Yes	0.56																	0.14	0.56				

TOTAL BLW4 FACTORED (STA) - 1.82
TOTAL CBW6 FACTORED (STA) - 40
TOTAL CHW8 FACTORED (STA) - 7.2
TOTAL DCY4 FACTORED (STA) - 76.9
TOTAL DLW4 FACTORED (STA) - 1.73
TOTAL ELW4 FACTORED (STA) - 32.77
TOTAL ELY4 FACTORED (STA) - 8.54
TOTAL NPY4 FACTORED (STA) - 7.77
TOTAL SLW2 FACTORED (STA) - 13.69
TOTAL SLW4 FACTORED (STA) - 18.31
TOTAL YLW2 FACTORED (STA) - .18
TOTAL PAINTED PAVEMENT MARKINGS, DURABLE (STA) - 208.91

108_33
8/15/22

TEMPORARY BARRIER RAIL

Possible Standard: BA-401 Possible Detail: 560-7

* Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.

Line No.	No.	Station From	Station To	Length (FT)	Barrier Rail Type	Anchored*	Modular Glare Screen System	Remarks
1.0	1	212+06.44	213+91.71	190.0	Concrete BA-401	Yes	No	STAGE 4
2.0	2	215+19.80	215+78.22	63.0	Concrete BA-401	Yes	No	STAGE 4
3.0	3	216+46.93	217+49.60	106.0	Concrete BA-401	Yes	No	STAGE 4
4.0	4	218+09.40	218+68.40	63.0	Concrete BA-401	Yes	No	STAGE 4
5.0	5	219+79.19	220+38.00	63.0	Concrete BA-401	Yes	No	STAGE 4
6.0	6	211+91.52	213+76.48	189.0	Concrete BA-401	Yes	No	STAGE 4
7.0	7	211+91.52	213+76.48	189.0	Concrete BA-401	Yes	No	STAGE 5
8.0	8	218+09.81	218+68.72	63.0	Concrete BA-401	Yes	No	STAGE 5
9.0	9	219+79.78	220+39.94	63.0	Concrete BA-401	Yes	No	STAGE 5
10.0	10	111+87.84		493.0	Concrete BA-401	Yes	No	STAGE 7 - 26' PAST 116+50
11.0	11	109+64.45	112+34.25	273.0	Concrete BA-401	Yes	No	STAGE 8
12.0	12	113+91.92	116+37.84	251.0	Concrete BA-401	Yes	No	STAGE 8
13.0	13	451+46.10	452+04.69	63.0	Concrete BA-401	Yes	No	STAGE 10

TOTAL (LF) = 2,069

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026
Project No: 116.0663 | Sheet C.21

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663
Sheet C.21

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108_29
4/15/25

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Line No.	Roadway Identification	Station	Side	Pavement Symbol	Quantity (EA)	Groove Marking Needed?	Remarks
1.0	Alburnett	13+00.48	Left	RTAW	1	Yes	
2.0	Alburnett	13+00.55	Median	LTAW	1	Yes	
3.0	Alburnett	13+66.27	Left	RTAW	1	Yes	
4.0	Alburnett	13+66.01	Median	LTAW	1	Yes	
5.0	Alburnett	13+81.21	Right	BLSW	1	Yes	
6.0	Alburnett	13+93.97	Right	STAW	1	Yes	
7.0	Alburnett	15+27.33	Left	BLSW	1	Yes	
8.0	Alburnett	15+32.98	Median	LTAW	1	Yes	
9.0	Alburnett	15+39.69	Left	BLSW	1	Yes	
10.0	Alburnett	16+07.98	Median	LTAW	1	Yes	
11.0	Alburnett	17+53.09	Median	LTAW	1	Yes	
12.0	Alburnett	17+62.64	Right	BLSW	1	Yes	
13.0	Alburnett	17+75.00	Right	STAW	1	Yes	
14.0	Alburnett	18+28.09	Median	LTAW	1	Yes	
15.0	Alburnett	19+25.00	Left	STAW	1	Yes	
16.0	Alburnett	19+26.74	Median	LTAW	1	Yes	
17.0	Alburnett	19+35.91	Median	LTAW	1	Yes	
18.0	Alburnett	19+37.36	Left	BLSW	1	Yes	
19.0	Alburnett	20+62.64	Right	BLSW	1	Yes	
20.0	Alburnett	20+75.00	Right	STAW	1	Yes	
21.0	Alburnett	21+32.14	Median	LTAW	1	Yes	
22.0	Alburnett	21+41.26	Median	LTAW	1	Yes	
23.0	Alburnett	22+00.00	Left	STAW	1	Yes	
24.0	Alburnett	22+12.77	Left	BLSW	1	Yes	
25.0	Alburnett	23+16.54	Median	LTAW	1	Yes	
26.0	Alburnett	23+23.02	Right	BLSW	1	Yes	
27.0	Alburnett	23+35.00	Right	STAW	1	Yes	
28.0	Alburnett	23+53.61	Median	LTAW	1	Yes	
29.0	Alburnett	25+00.76	Left	STAW	1	Yes	
30.0	Alburnett	25+13.53	Left	BLSW	1	Yes	
31.0	Alburnett	26+07.64	Right	BLSW	1	Yes	
32.0	Alburnett	26+20.00	Right	STAW	1	Yes	
33.0	Alburnett	27+34.64	Left	STAW	1	Yes	
34.0	Alburnett	27+47.00	Left	BLSW	1	Yes	
35.0	Alburnett	28+67.64	Right	BLSW	1	Yes	
36.0	Alburnett	28+80.00	Right	LTAW	1	Yes	
37.0	Alburnett	29+84.64	Left	STAW	1	Yes	
38.0	Alburnett	29+97.00	Left	BLSW	1	Yes	
39.0	Alburnett	31+17.64	Right	BLSW	1	Yes	
40.0	Alburnett	31+30.00	Right	STAW	1	Yes	
41.0	Alburnett	32+34.64	Left	STAW	1	Yes	
42.0	Alburnett	32+47.00	Left	BLSW	1	Yes	
43.0	Alburnett	45+72.56	Median	LTAW	1	Yes	
44.0	Alburnett	45+78.00	Right	BLSW	1	Yes	
45.0	Alburnett	45+84.64	Left	STAW	1	Yes	
46.0	Alburnett	45+97.00	Left	BLSW	1	Yes	
47.0	Alburnett	45+90.36	Right	STAW	1	Yes	
48.0	Alburnett	47+60.03	Median	LTAW	1	Yes	
49.0	Alburnett	47+84.64	Left	STAW	1	Yes	
50.0	Alburnett	47+97.00	Left	BLSW	1	Yes	
51.0	Alburnett	48+78.10	Right	BLSW	1	Yes	
52.0	Alburnett	48+90.87	Right	STAW	1	Yes	
53.0	Alburnett	50+72.05	Median	LTAW	1	Yes	
54.0	Alburnett	50+85.11	Left	STAW	1	Yes	
55.0	Alburnett	50+97.09	Left	BLSW	1	Yes	

108_29
4/15/25

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Line No.	Roadway Identification	Station	Side	Pavement Symbol	Quantity (EA)	Groove Marking Needed?	Remarks
56.0	Alburnett	52+35.95	Right	BLSW	1	Yes	
57.0	Alburnett	52+48.72	Right	STAW	1	Yes	
58.0	Alburnett	53+10.74	Median	LTAW	1	Yes	
59.0	Alburnett	53+76.38	Median	LTAW	1	Yes	
60.0	Alburnett	54+39.77	Left	STAW	1	Yes	
61.0	Alburnett	54+52.13	Left	BLSW	1	Yes	
62.0	Alburnett	54+54.64	Median	LTAW	1	Yes	
63.0	7th Ave	110+79.73	Median	LTAW	1	Yes	
64.0	7th Ave	111+52.38	Median	LTAW	1	Yes	
65.0	8th Ave	214+12.55	Median	LTAW	1	Yes	
66.0	8th Ave	214+21.58	Median	LTAW	1	Yes	
67.0	8th Ave	215+29.06	Median	LTAW	1	Yes	
68.0	8th Ave	216+04.06	Median	LTAW	1	Yes	
69.0	8th Ave	217+56.81	Median	LTAW	1	Yes	
70.0	8th Ave	218+31.81	Median	LTAW	1	Yes	
71.0	8th Ave	453+64.64	Left	LTAW	1	Yes	
72.0	8th Ave	453+64.65	Right	RTAW	1	Yes	
73.0	8th Ave	454+39.64	Left	LTAW	1	Yes	
74.0	8th Ave	454+40.61	Right	RTAW	1	Yes	
75.0	Boyson	455+95.03	Left	LTAW	1	Yes	
76.0	Boyson	457+20.06	Left	LTAW	1	Yes	
77.0	Boyson	460+08.86	Left	LTAW	1	Yes	
78.0	Boyson	463+54.60	Right	LTAW	1	Yes	
79.0	Boyson	464+03.16	Right	RTAW	1	Yes	
80.0	Boyson	464+29.60	Right	LTAW	1	Yes	
81.0	Boyson	464+70.00	Right	RTAW	1	Yes	

TOTAL (EA) - 81

303_99
Modified

VALVE REMOVAL

Line No.	Station Offset	Type
1	16+57.28, 22.76' LT	REMOVE CURB STOP
5	20+18.84, 5.17' RT	REMOVE CURB STOP
6	20+31.97, 30.17' RT	REMOVE CURB STOP
7	20+43.51, 38.26' RT	REMOVE CURB STOP
9	115+28.24, 39.40' LT	REMOVE CURB STOP
10	213+45.22, 19.76' RT	REMOVE 12'' VALVE
11	217+51.36, 21.80' RT	REMOVE CURB STOP
12	320+65.52, 30.35' RT	REMOVE CURB STOP
13	321+10.34, 30.46' RT	REMOVE CURB STOP.
14	321+25.37, 31.52' LT	REMOVE CURB STOP

REMOVE 12'' VALVE (EA) - 1
REMOVE CURB STOP (EA) - 9

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663 Sheet C.22

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet C.22

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110_01
4/5/24

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5.

* Not a bid item.

Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks
1.0	12+37.38	22+21.57	All	PCC	2957.5		Alburnett
2.0	107+99.30	116+04.05	Both	HMA/PCC	5012.9	106.1	7th Ave
3.0	212+46.67	216+69.70	Both	PCC	1526.0	262.5	8th Ave
4.0	217+31.14	220+59.55	Both	PCC	1089.7	29.9	8th Ave
5.0	320+28.62	321+93.70	Both	PCC	508.0	27.0	9th Ave
6.0	122+82.35	124+80.94	Both	PCC	611.2	24.9	2nd St
7.0	451+65.02	456+43.10	Both	PCC	1450.5	398.8	Boyson/Alburnett
8.0	215+55.08	218+29.71	Left	HMA or PCC	378.6	274.6	STAGE 3 - TEMP PAVEMENT/8TH AVE
9.0	107+27.80	108+29.53	Center	HMA or PCC	114.7	220.5	STAGE 6 - TEMP PAVEMENT/7TH AVE.
10.0	454+65.39	455+04.03	Left	HMA or PCC	36.1	20.2	STAGE 10 - TEMP PAVEMENT/BOYSON AVE

TOTAL REMOVAL OF PAVEMENT (SY) - 13155.8

110_15
8/15/22

REMOVAL OF INTAKES AND UTILITY ACCESSES

Line No.	Location Description	Type	Remarks
1.0	STA 12+65.07, 24.89' RT	Utilities	Storm Manhole
2.0	STA 15+08.73, 37.50' RT	Intakes	
3.0	STA 15+08.74, 6.77' RT	Intakes	
4.0	STA 16+64.44, 3.89' RT	Utilities	Storm Manhole
5.0	STA 16+80.25, 19.81' RT	Utilities	Sanitary Manhole
6.0	STA 19+88.91, 19.93' RT	Utilities	Sanitary Manhole
7.0	STA 20+33.29, 20.70' RT	Utilities	Sanitary Manhole
8.0	STA 21+07.60, 19.31' RT	Utilities	Sanitary Manhole
9.0	STA 22+11.39, 22.91' RT	Utilities	Sanitary Manhole
10.0	STA 22+25.85, 22.49' RT	Intakes	
11.0	STA 54+97.10, 33.83' LT	Utilities	Subdrain Cleanout
12.0	STA 54+94.72, 32.13' RT	Utilities	Subdrain Cleanout
13.0	STA 110+12.58, 4.13' LT	Intakes	
14.0	STA 110+22.36, 33.03' RT	Intakes	
15.0	STA 110+43.68, 56.45' RT	Intakes	
16.0	STA 114+60.84, 26.16' LT	Intakes	
17.0	STA 114+69.05, 27.60' RT	Intakes	
18.0	STA 213+52.76, 123.67' RT	Intakes	
19.0	STA 213+54.27, 19.48' LT	Intakes	
20.0	STA 213+60.60, 13.39' RT	Utilities	Storm Manhole
21.0	STA 213+61.30, 19.56' RT	Intakes	
22.0	STA 213+76.09, 18.18' RT	Utilities	Storm Manhole
23.0	STA 213+78.27, 122.06' RT	Intakes	
24.0	STA 215+48.32, 19.91' RT	Intakes	
25.0	STA 215+48.99, 12.31' RT	Utilities	Storm Manhole
26.0	STA 218+36.09, 16.79' LT	Intakes	
27.0	STA 218+36.22, 16.24' RT	Intakes	
28.0	STA 321+62.28, 0.23' LT	Utilities	Sanitary Manhole

TOTAL (EA) - 28

110_05
8/15/22

SIDEWALK REMOVAL

* Not a bid item

Line No.	Station From	Station To	Area (SY)	Saw Cut* (LF)	Remarks
1.0	13+08.87	14+32.71	221.2	65.6	Width Varies
2.0	17+76.25	17+79.97	9.1	3.6	
3.0	107+97.21	112+20.15	195.2	4.0	
4.0	108+51.15	108+86.93	16.1	4.1	
5.0	109+28.49	114+01.50	206.1	3.6	
6.0	112+74.83	113+97.01	115.8	8.5	
7.0	114+06.70	114+85.93	34.5		
8.0	114+62.89	115+28.13	28.0		
9.0	114+99.11	115+51.24	25.4	2.3	
10.0	115+58.06	116+12.27	23.7	4.0	
11.0	115+62.47	115+85.94	9.9	3.9	
12.0	212+65.46	212+85.67	6.9	20.2	
13.0	213+49.40	213+67.90	7.9	3.9	
14.0	215+58.24	215+69.44	4.6	3.8	
15.0	215+79.72	216+88.53	46.2		
16.0	217+16.44	218+81.13	70.8	3.8	
17.0	218+96.99	219+51.06	27.1	3.1	
18.0	219+22.26	219+24.35	5.2	2.2	
19.0	219+60.71	220+70.45	51.4	7.6	
20.0	220+09.31	220+18.34	7.4	2.6	
21.0	454+14.38	454+99.42	107.3	15.8	
22.0	455+43.98	455+91.42	77.6	16.0	

TOTAL REMOVAL OF SIDEWALK (SY) - 1297.4

110_08
8/15/22

REMOVAL OF CONCRETE DRIVES

* Not a Bid Item.

Line No.	Station	Side	Area (SY)	Saw Cut* (LF)	Remarks
1.0	14+18.18	Right	360.6		Length and Width Varies
2.0	15+41.04	Left	34.8		
3.0	15+63.64	Right	26.2	11.1	
4.0	17+75.76	Right	48.0	8.1	
5.0	18+99.05	Right	20.6	14.9	
6.0	20+81.67	Right	49.0	17.3	
7.0	21+70.21	Right	57.1	9.6	
8.0	109+08.15	Right	111.3	36.8	
9.0	113+79.13	Right	407.7	224.3	Length and Width Varies
10.0	114+02.09	Left	36.3	9.8	
11.0	114+81.06	Left	42.5	16.7	
12.0	115+43.38	Right	72.0	37.2	
13.0	115+56.06	Left	38.8	11.3	
14.0	213+73.43	Right	349.7	53.0	Length Varies
15.0	213+68.05	Left	8.1	13.4	
16.0	214+67.93	Right	81.6	24.4	
17.0	215+74.15	Left	19.2	10.0	
18.0	218+19.31	Right	111.9	49.4	Length and Width Varies
19.0	218+49.35	Right	27.2	11.4	
20.0	218+87.87	Left	68.2	18.8	
21.0	219+55.89	Left	38.0	9.8	
22.0	321+01.07	Right	26.2	10.7	
23.0	321+03.54	Left	23.4	11.9	
24.0	123+69.45	Right	136.9	54.8	Width Varies
25.0	453+16.49	Left	52.8	11.5	
26.0	460+29.87	Left	85.5	20.8	

TOTAL (SY) - 2333.6

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663

Sheet C.23

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

ESTIMATE OF QUANTITIES AND TABULATIONS

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet C.23

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110_14
7/11/24

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

Line No.	Location Description	Sewer and Work Type	≤ 36 inch Diameter (LF)	> 36 inch Diameter (LF)	Plug Quantity (EA)	Remarks
1.0	STA 12+64.17, 7.36' RT - STA 16+80.25, 19.81' RT	Sanitary Sewer - Removal	413.4			
2.0	STA 15+08.76, 38.53' RT - STA 15+08.80, 40.50' RT	Storm Sewer - Removal	2.0			
3.0	STA 15+08.77, 7.80' RT - STA 15+08.80, 36.53' RT	Storm Sewer - Removal	28.7			
4.0	STA 15+15.75, 36.84 LT - STA 15+08.81, 5.80' RT	Storm Sewer - Removal	43.2			
5.0	STA 16+80.25, 19.81' RT - STA 19+88.91, 19.93' RT	Sanitary Sewer - Removal	308.4			
6.0	STA 20+33.29, 20.70' RT - STA 20+38.91, 35.49' RT	Storm Sewer - Removal	15.8			
7.0	STA 20+33.29, 20.70' RT - STA 21+07.57, 19.30' RT	Sanitary Sewer - Removal	74.3			
8.0	STA 21+07.57, 19.30' RT - STA 21+18.86, 30.77' RT	Sanitary Sewer - Removal	16.1			
9.0	STA 21+07.57, 19.30' RT - STA 22+11.33, 22.90' RT	Sanitary Sewer - Removal	105.3			
10.0	STA 22+06.07, 43.59' RT - STA 22+25.10, 23.07' RT	Storm Sewer - Removal	28.7			
11.0	STA 22+11.33, 22.90' RT - STA 22+10.14, 55.44' RT	Storm Sewer - Removal	32.6			
12.0	STA 25+08.52, 44.20' LT - STA 24+53.14, 41.26' RT	Sanitary Sewer - Removal	101.7			
13.0	STA 25+72.59, 131.64' LT - STA 25+08.52, 44.20' LT	Sanitary Sewer - Plug Only	108.2		2	
14.0	STA 24+53.14, 41.26' RT - STA 24+42.68, 61.13' RT	Sanitary Sewer - Plug Only	22.9		2	
15.0	STA 109+38.49, 71.02' LT - STA 110+11.86, 4.84' LT	Storm Sewer - Removal	98.8			
16.0	STA 110+12.91, 3.21' LT - STA 110+22.38, 32.01' RT	Storm Sewer - Removal	36.4			
17.0	STA 110+23.06, 33.72' RT -STA 110+43.05, 55.64' RT	Storm Sewer - Removal	29.7			
18.0	STA 111+71.34, 80.99' LT -STA 112+43.83, 50.54' LT	Storm Sewer - Removal	87.2			
19.0	STA 112+45.54, 49.87' LT -STA 114+59.84, 26.33' LT	Storm Sewer - Removal	225.9			
20.0	STA 114+61.82, 26.03' LT -STA 115+83.77, 26.45' LT	Storm Sewer - Removal	122.0			
21.0	STA 122+85.24, 38.13' RT -STA 122+90.55, 33.09' RT	Storm Sewer - Removal	8.0			
22.0	STA 122+83.81, 53.77' RT - STA 124+71.88, 2.45' LT	Sanitary Sewer - Removal	211.4			
23.0	STA 122+90.55, 33.09' RT -STA 125+19.10, 17.71' LT	Storm Sewer - Plug Only	239.7		2	
24.0	STA 212+05.90, 29.65' RT -STA 213+58.01, 14.70' RT	Storm Sewer - Removal		152.9		
25.0	STA 213+54.27, 18.49' LT -STA 213+60.05, 11.64' RT	Storm Sewer - Removal	30.7			
26.0	STA 213+60.66, 14.31' RT -STA 213+61.29, 18.70' RT	Storm Sewer - Removal	4.4			
27.0	STA 213+62.80, 19.42' RT -STA 213+74.69, 18.60' RT	Storm Sewer - Removal	11.9			
28.0	STA 213+64.23, 14.28' RT -STA 215+47.97, 12.27' RT	Storm Sewer - Removal	184.2			
29.0	STA 213+76.37,19.98' RT - STA 213+78.10,120.76' RT	Storm Sewer - Removal	100.8			
30.0	STA 213+55.60, 123.54' RT - STA 213+77.38, 122.27'	Storm Sewer - Removal	21.8			
31.0	STA 213+78.66,122.32' RT -STA 213+98.30,124.82' RT	Storm Sewer - Removal	19.8			
32.0	STA 215+48.35, 18.84' RT- STA 215+48.78, 13.44' RT	Storm Sewer - Removal	5.4			
33.0	STA 215+49.00, 11.29' RT - STA 215+49.24, 3.96' RT	Storm Sewer - Removal	7.3			
34.0	STA 215+49.97, 12.31' RT - STA 216+84.33,16.85' RT	Storm Sewer - Removal	134.4			
35.0	STA 216+86.33,16.89' RT - STA 218+34.26, 16.36' RT	Storm Sewer - Removal	147.9			
36.0	STA 218+36.05,15.77' LT - STA 218+36.12, 15.02' RT	Storm Sewer - Removal	30.8			
37.0	STA 218+38.15, 16.19' RT - STA 220+54.57,17.31' RT	Sanitary Sewer - Removal	216.4			
38.0	STA 320+14.24, 5.39' RT - STA 321+62.28, 0.23' LT	Sanitary Sewer - Removal	148.2			
39.0	STA 451+16.53, 26.91' LT - STA 451+48.28,26.42' LT	Storm Sewer - Removal	31.8			
40.0	STA 451+78.93, 18.26' RT - STA 454+86.64,23.68' RT	Storm Sewer - Removal	309.3			SUBDRAIN
41.0	STA 454+88.36, 24.90' RT - STA 454+99.96,91.08' RT	Storm Sewer - Removal	69.6			SUBDRAIN
42.0	STA 455+45.92, 90.45' RT - STA 455+52.20,25.41' RT	Storm Sewer - Removal	69.6			SUBDRAIN
43.0	STA 455+53.64, 24.01 RT - STA 456+02.02, 17.08' RT	Storm Sewer - Removal	50.0			SUBDRAIN
44.0	STA 453+01.15, 26.77' LT - STA 453+36.20,27.77' LT	Storm Sewer - Removal	35.1			
45.0	STA 456+07.03, 28.02' LT - STA 456+37.73,28.23' LT	Storm Sewer - Removal	30.7			
46.0	STA 456+69.86, 27.93' LT - STA 457+02.76,28.58' LT	Storm Sewer - Removal	32.9			
47.0	STA 457+73.16, 29.52' LT - STA 458+05.61,30.11' LT	Storm Sewer - Removal	32.5			
48.0	STA 460+16.68,31.16' LT - STA 460+49.62, 30.87' LT	Storm Sewer - Removal	33.0			
49.0	STA 461+25.89, 30.89' LT - STA 461+62.49,31.55' LT	Storm Sewer - Removal	36.6			

TOTAL LF OF REMOVALS FOR RCP STORM SEWER <= 36'' - 1691.0
TOTAL LF OF REMOVALS FOR RCP STORM SEWER >= 36'' - 152.9
TOTAL LF OF REMOVALS FOR SUBDRAIN - 498.5
TOTAL LF OF REMOVALS FOR SANITARY SEWER <=36'' - 1595.2
TOTAL LF OF STORM SEWER ABANDONMENT <= 36'' - 239.7
TOTAL LF OF SANITARY SEWER ABANDONMENT <= 36'' - 131.1

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026
Project No: 116.0663 | Sheet C.24

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

ESTIMATE OF QUANTITIES AND TABULATIONS

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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Project No: 116.0663
Sheet C.24

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CLEARING AND GRUBBING

Line No.	Station From	Station To	Direction of Traffic	Work and Material Type	>3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Other Materials Length (FT)	Other Materials Width (FT)	Estimated Units	Estimated Area (Acres)	Estimated Herbicide Application (EA)	Remarks
1.0	12+83.58		SB	Trees - Clearing and Grubbing							1									29.0			
2.0	13+02.01		SB	Trees - Clearing and Grubbing								1								50.0			
3.0	13+78.68		SB	Trees - Clearing and Grubbing					1											13.5			
4.0	13+79.29		SB	Trees - Clearing and Grubbing						1										22.0			
5.0	13+93.50		NB	Trees - Clearing and Grubbing						1										22.0			
6.0	14+22.83		NB	Trees - Clearing and Grubbing				1												9.4			
7.0	14+37.98		SB	Stumps - Grubbing										1						80.0			
10.0	14+63.31		NB	Trees - Clearing and Grubbing									1							80.0			
11.0	14+73.52		SB	Trees - Clearing and Grubbing		1														3.9			
11.5	14+84.95		SB	Trees - Clearing and Grubbing						1										22.0			
13.0	14+97.30		NB	Trees - Clearing and Grubbing		1														3.9			
14.0	15+01.40		NB	Trees - Clearing and Grubbing						1										22.0			
15.0	15+03.24		SB	Trees - Clearing and Grubbing				1												9.4			
16.0	15+07.55		NB	Trees - Clearing and Grubbing	1															1.6			
17.0	15+13.01		SB	Trees - Clearing and Grubbing			1													6.7			
18.0	15+17.82		SB	Trees - Clearing and Grubbing		1														3.9			
19.0	15+44.53		NB	Trees - Clearing and Grubbing			1													6.7			
20.0	15+47.68	15+81.20	SB	Brush - Clearing																3.0			
28.0	17+22.18		NB	Trees - Clearing and Grubbing										1						120.0			
30.0	17+52.22	17+62.24	NB	Brush - Clearing																1.5			
32.0	19+52.75		NB	Stumps - Grubbing							1									17.6			
33.0	20+28.42		NB	Trees - Clearing and Grubbing				1												9.4			
34.0	321+60.08		EB	Trees - Clearing and Grubbing							1									29.0			
35.0	21+28.52		SB	Trees - Clearing and Grubbing				1												9.4			
38.0	24+45.41		NB	Trees - Clearing and Grubbing					1											13.5			
39.0	24+49.17		SB	Trees - Clearing and Grubbing						1										22.0			
41.0	25+28.21		NB	Trees - Clearing and Grubbing			1													6.7			
42.0	25+70.96		SB	Trees - Clearing and Grubbing								1								50.0			
43.0	451+60.18	452+94.19	WB	Hedge Rows - Clearing																40.2			
43.1	451+93.15			Stumps - Grubbing						1										13.6			
43.2	452+16.63		WB	Trees - Clearing and Grubbing				1												9.4			
43.3	452+36.12		WB	Stumps - Grubbing		1														2.8			
44.0	453+37.03	454+46.97	WB	Hedge Rows - Clearing																10.0			
46.0	454+59.09		EB	Trees - Clearing and Grubbing		1														3.9			
46.1	454+63.05		WB	Trees - Clearing and Grubbing							1									29.0			
46.2	454+78.88	454+84.56	WB	Hedge Rows - Clearing																1.7			
47.0	27+36.98	29+53.83	WB	Trees - Clearing and Grubbing																	0.580		
48.0	28+82.24	33+49.02	EB	Trees - Clearing and Grubbing																	1.825		
49.0	110+77.41		WB	Trees - Clearing and Grubbing		1														3.9			
50.0	111+80.17		WB	Trees - Clearing and Grubbing					1											13.5			
51.0	113+72.66		WB	Trees - Clearing and Grubbing					1											13.5			

TOTAL (UNIT) - 783.7
TOTAL (ACRE) - 2.4

DOT PROJECT NUMBER: HDP-4775(646)--71-57				
	FINAL PLANS	5/13/2026		
	REVISION	DATE	BY	
MARK:	Checked By: DMS	T-R-S:		
Engineer: MGB	Date: 5/13/2026	Sheet	C.25	
Technician: KMM	Project No: 116.0663			

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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Project No: 116.0663
Sheet C.25

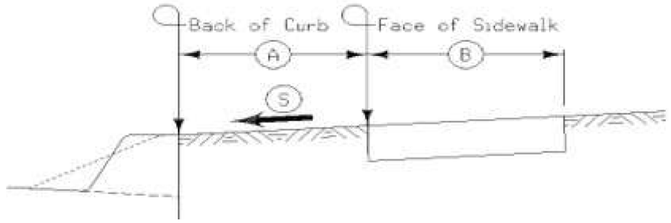
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11/19/24

SIDEWALKS

See MI-220 and S Sheets



Line No.	Road Identification	Station From	Station To	Side	A (FT)	B (FT)	Sidewalk Thickness (IN)	Sidewalk Area (SF)	4" PCC Sidewalk (SY)	6" PCC Sidewalk (SY)	Detectable Warnings (SF)	Remarks
1.0	Alburnett	12+49.07	14+65.99	Left	9.0	8.0	6	2158.3		239.8	16.0	
2.0	Alburnett	12+53.26	14+36.80	Right	9.0	8.0	6	1625.0		180.6	24.0	
3.0	Alburnett	12+64.81	13+20.15	Left		9.0	6	473.0		52.6		STAMPED SIDEWALK PARKWAY
4.0	Alburnett	12+78.63	13+36.50	Right			6	212.7		23.6		STAMPED SIDEWALK PARKWAY, WIDTH VARIES.
5.0	Alburnett	14+59.02	15+57.80	Right	9.0	8.0	6	778.7		86.5		
6.0	Alburnett	14+96.63	16+59.55	Left	9.0	8.0	6	1402.5		155.8	32.0	
7.0	Alburnett	15+68.92	16+58.73	Right	9.0	8.0	6	809.0		89.9	32.0	
8.0	Alburnett	17+03.31	17+82.56	Right	9.0	8.0	6	722.3		80.3	32.0	
9.0	Alburnett	17+03.74	28+47.48	Left	9.0	8.0	6	9168.7		1018.7	48.0	
10.0	Alburnett	17+92.56	18+88.31	Right	9.0	8.0	6	762.8		84.8		
11.0	Alburnett	19+07.20	19+79.80	Right	9.0	8.0	6	572.1		63.6	16.0	
12.0	Alburnett	20+08.45	20+74.19	Right	9.0	8.0	6	517.2		57.5	16.0	
13.0	Alburnett	600+00.00	612+19.13	Median		8.0	6	10602.0		1178.0		RECREATIONAL TRAIL, SEE E.7 & E.8
14.0	Alburnett	20+90.42	21+64.34	Right	9.0	8.0	6	591.6		65.7		
15.0	Alburnett	21+73.66	22+51.86	Right	9.0	8.0	6	653.6		72.6	16.0	
16.0	Alburnett	22+77.21	28+47.48	Right	9.0	8.0	6	4746.3		527.4	32.0	
17.0	Alburnett	612+97.13	614+61.14	Median		8.0	6	1312.0		145.8		RECREATIONAL TRAIL, SEE E.9
18.0	Alburnett	25+30.76	25+38.76			8.0	6	90.0		10.0	32.0	
19.0	Alburnett	30+75.81	33+50.00	Right	9.0	8.0	6	2197.1		244.1		
20.0	Alburnett	30+75.81	33+50.00	Left	9.0	8.0	6	2197.1		244.1		
21.0	Alburnett	700+30.00	703+29.36	Median		10.0	6	3450.6		383.4		RECREATIONAL TRAIL, SEE E.10
22.0	Alburnett	800+18.58	803+61.51	Median		10.0	6	3469.7		385.5		RECREATIONAL TRAIL, SEE E.12
23.0	Alburnett	900+25.00	903+26.52	Median		10.0	6	3048.8		338.8		RECREATIONAL TRAIL, SEE E.11
24.0	7th Ave	107+97.21	111+69.94	Left		5.0	4	1917.2	213.0			
25.0	7th Ave	108+51.15	108+86.64	Right		5.0	4	148.4	16.5			
26.0	7th Ave	109+23.84	112+40.00	Right	8.0	5.0	4	1721.2	191.2			
27.0	7th Ave	112+40.00	113+11.88	Right		5.0	6	383.0		42.6	12.0	
28.0	7th Ave	112+75.43	112+83.48								32.3	
29.0	7th Ave	112+81.93	113+96.87	Left	8.0	5.0	4	616.2	68.5			
30.0	7th Ave	113+37.25	114+25.78	Right		5.0	4	422.6	47.0			
31.0	7th Ave	114+06.65	114+85.87	Left	8.0	5.0	4	396.9	44.1			
32.0	7th Ave	114+55.02	115+28.17	Right	8.0	5.0	4	365.3	40.6			
33.0	7th Ave	114+99.50	115+51.22	Left	8.0	5.0	4	282.0	31.3			
34.0	7th Ave	115+58.17	116+05.17	Right		5.0	4	259.3	28.8			
35.0	7th Ave	115+62.48	115+85.94	Left		5.0	4	106.2	11.8			
36.0	8th Ave	213+41.56	213+59.80	Left	3.1	4.0	4	70.8	7.9			
37.0	8th Ave	215+58.24	215+69.45	Left		5.0	6	51.6		5.7		
38.0	8th Ave	215+79.55	216+32.61	Left		5.0	6	269.3		29.9		
39.0	8th Ave	217+28.11	218+80.46	Left	6.0	5.0	4	793.5	88.2			
40.0	8th Ave	217+28.13	218+07.40	Right	6.0	5.0	4	400.2	44.5			
41.0	8th Ave	218+31.40	218+43.88	Right	6.0	5.0	4	62.4	6.9			
42.0	8th Ave	218+55.26	220+45.46	Right		5.0	4	994.0	110.5			
43.0	8th Ave	218+97.37	219+51.03	Left	6.0	5.0	4	293.2	32.6			
44.0	8th Ave	219+60.72	220+70.83	Left		5.0	4	560.6	62.3			
45.0	Boyson	454+14.38	454+97.61	Right		8.0	6	1042.4		115.8	36.0	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026

Project No: 116.0663 | Sheet C.26

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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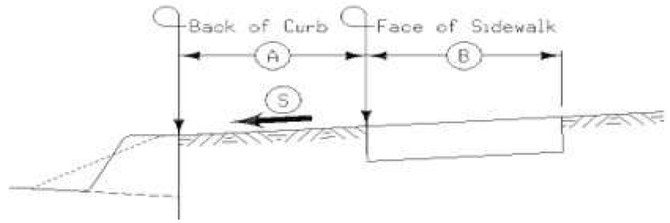
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Project No: 116.0663
Sheet C.26

113_01A
11/19/24

SIDEWALKS

See MI-220 and S Sheets



Line No.	Road Identification	Station From	Station To	Side	A (FT)	B (FT)	Sidewalk Thickness (IN)	Sidewalk Area (SF)	4" PCC Sidewalk (SY)	6" PCC Sidewalk (SY)	Detectable Warnings (SF)	Remarks
46.0	Boyson	454+66.32	454+94.40	Left			6	299.1		33.2	26.0	
47.0	Boyson	455+43.00	455+67.04	Left			6	249.8		27.8	26.0	
48.0	Boyson	455+43.95	455+91.42	Right		8.0	6	827.3		91.9	32.0	

TOTAL SIDEWALK, P.C. CONCRETE, 4 IN. (SY) - 1045.7
TOTAL SIDEWALK, P.C. CONCRETE, 6 IN. (SY) - 3568.3
TOTAL SIDEWALK, P.C. CONCRETE, 6 IN. STAMPED (SY) - 76.2
TOTAL RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN. (SY) - 2442.5
TOTAL DETECTABLE WARNINGS (SF) - 460.3

112_06
2/22/24

BRIDGE APPROACH SECTION

Refer to the BR Series.

* Not a bid item

Line No.	Bridge Station	End	(T) Thickness (IN)	Pay Length (FT)	Non-Reinf. Area (SY)	Single-Reinf. Area (SY)	Double-Reinf. Area (SY)	SRP Approach	Modified * Subbase (TON)	Polymer * Grid (SY)	Remarks
1.0	28+59.50	SE	12.0	70.0	138.7	87.6	84.4	BR-203	216.660	343.9	
2.0	30+63.83	NW	12.0	70.0	138.7	87.6	84.4	BR-203	216.670	343.9	
3.0	212+40.75	E	10.0	73.8	145.8	91.2	105.3	BR-201	78.828	375.4	OR BR-203, DEPENDING ON PAVEMENT NOTCH CONDITION

TOTAL BRIDGE APPROACH PAVEMENT, AS PER PLAN (SY) - 342.3
TOTAL BRIDGE APPROACH, BR-203 (SY) - 621.4

112_05
8/15/22

CONCRETE MEDIANS

* Bid item

Line No.	Station From	Station To	Type	Area* (SY)	Modified Subbase (CY)	Remarks
1.0	107+45.94	109+80.70	Median PCC 6"	200.6	44.59	STANDARD CONCRETE, WIDTH VARIES
2.0	112+68.14	112+74.44	Median PCC 6"	3.7	0.83	STANDARD CONCRETE, WIDTH VARIES
3.0	112+84.35	113+69.94	Median PCC 6"	70.6	15.70	STANDARD CONCRETE, WIDTH VARIES
4.0	24+40.40	25+29.76	Median PCC 6"	48.3	16.82	COLORED CONCRETE, WIDTH VARIES BETWEEN 9' AND 1.5'
5.0	25+39.76	27+61.03	Median PCC 6"	91.4	39.80	COLORED CONCRETE, WIDTH VARIES BETWEEN 9' AND 1.5'
6.0	31+62.23	33+50.00	Median PCC 6"	82.0	33.89	COLORED CONCRETE, WIDTH VARIES BETWEEN 9' AND 1.5'

TOTAL MEDIAN, PCC, 6'', STANDARD CONCRETE (SY) - 274.9
TOTAL MEDIAN, PCC 6'', COLORED CONCRETE (SY) - 221.7

112_09
4/21/26

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	G Width (FT)	L Length (FT)	Shoulder Unit Weight (lbs-cf)	Granular Shoulder (3) (TON)	Remarks
Boyson	WB	449+05.22	449+25.04	Left	4	19.82	140	3.700	
Boyson	WB	462+42.85	462+98.12	Left	4	55.27	140	10.320	

TOTAL (TON) - 14.02

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026
Project No: 116.0663 | Sheet C.27

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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Project No: 116.0663
Sheet C.27

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MATERIALS FOR TYPE 'A' SIGNS

Refer to SI-101, SI-111, SI-119 and N Sheets.

Line No.	Sign Number	Dir. of Travel	Sign Location Station	Perf. Sq. Steel Leg 1 (FT)	Perf. Sq. Anchor Type	Anchor Quantity (EA)	Install. Type	Install. Dim X (FT)	Remarks
1.0	R3-17	NB	13+55.62	11.0	Soil	1	1	3.9	
2.0	R2-1	NB	14+17.37	11.0	Soil	1	1	4.5	
3.0	R3-17	SB	16+06.55	11.0	Soil	1	1	4.5	
4.0	R8-3	NB	18+31.31	11.0	Soil	1	1	4.0	
5.0	R8-3	SB	18+90.98	11.0	Soil	1	1	4.0	
6.0	R8-3	SB	21+39.88	11.0	Soil	1	1	4.0	
7.0	R8-3	NB	21+40.70	11.0	Soil	1	1	4.0	
8.0	R11-2	NB	23+00.00						INSTALL ON TYPE III BARRICADE
9.0	R11-2	NB	23+00.00						INSTALL ON TYPE III BARRICADE
10.0	R11-2	NB	23+00.00						INSTALL ON TYPE III BARRICADE
11.0	R4-7, OM1-1	NB	24+40.94	11.0	Concrete	1	3	4.5	
12.0	R4-7, OM1-1	SB	27+61.03	11.0	Concrete	1	3	4.5	
13.0	R4-7, OM1-2	NB	31+62.23	11.0	Concrete	1	3	4.5	
14.0	R3-17, R3-17B9	NB	53+25.55	11.0	Soil	1	1	4.0	
15.0	R2-1	SB	53+28.98	11.0	Soil	1	1	3.1	
16.0	R3-17	SB	54+62.32	11.0	Soil	1	1	3.5	
17.0	R4-7, OM1-1	WB	109+80.20	11.0	Concrete	1	3	4.5	
18.0	R8-3	EB	110+52.56	11.0	Soil	1	1	4.0	
19.0	R4-7, OM1-1	EB	112+68.60	11.0	Concrete	1	3	2.2	
20.0	R6-1	NB	113+15.57	11.0	Concrete	1	1	1.0	
21.0	R4-7, OM1-1	WB	113+69.57	11.0	Concrete	1	3	2.1	
22.0	R8-3	WB	115+12.49	11.0	Soil	1	1	4.0	
23.0	R8-3	EB	115+96.67	11.0	Soil	1	1	5.0	
24.0	R3-9b	WB	214+52.82	11.0	Soil	1	1	1.5	
25.0	R8-3	EB	215+84.58	11.0	Soil	1	1	3.0	
26.0	R8-3	EB	219+01.13	11.0	Soil	1	1	3.5	
27.0	R8-3	WB	219+16.08	11.0	Soil	1	1	4.0	
28.0	R1-1, CUSTOM STREET SIGNS	WB	20+10.53	11.0	Soil	1	1	3.0	REFER TO PM.2, OFFSET = 44.94' RT
29.0	R8-3	EB	19+77.82	11.0	Soil	1	1	3.0	REFER TO PM.2, OFFSET = 93.63' RT
30.0	R-1, CUSTOM STREET SIGNS	WB	22+79.21	11.0	Soil	1	1	3.0	REFER TO PM.3. OFFSET = 44.74' RT
31.0	R2-1, R8-3	EB	451+54.31	11.0	Soil	1	1	4.2	
32.0	R2-1, R8-3	WB	452+63.15	11.0	Soil	1	1	2.8	
33.0	R8-3	WB	457+58.59	11.0	Soil	1	1	3.5	

NOTE: "INSTALL. DIM X" COLUMN IS MEASURED AS THE DISTANCE BETWEEN THE BACK OF CURB TO THE CENTER OF THE SIGN POST. A POST LENGTH OF 11' WAS ASSUMED FOR EACH SIGN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING

CORRECT SIGN HEIGHTS.

PERFORATED SQUARE STEEL TUBE POSTS (LF) - 330

PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION (EA) - 23

PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY CONCRETE INSTALLATION (EA) - 7

190_66
9/29/23

SUMMARY OF TYPE 'A' SIGNS

Line No.	Sign Number	Non-Standard Sign Number or Name	Quantity (EA)	Size (IN)	Total Sign Area (SF)
1.0	R1-1	STOP	2	30 X 30	12.6
2.0	R2-1	SPEED LIMIT	4	24 X 30	20.0
3.0		R3-17, BIKE LANE	4	24 X 18	12.0
4.0	R4-7	KEEP RIGHT	6	24 X 30	30.0
5.0	R8-3	NO PARKING	14	24 X 30	70.0
6.0		R11-2, ROAD CLOSED	3	48 X 30	30.0
7.0		ALBURNETT RD STREET SIGN	4	54 X 12	18.0
8.0		9TH AVE STREET SIGN	2	36 X 12	6.0
9.0		2ND ST STREET SIGN	2	30 X 12	5.0
10.0		OM1-1, OBJECT MARKER	6	18 X 18	13.8
11.0		R6-1, ONE WAY	1	36 X 12	3.0
12.0	R3-9B	CENTER LANE ONLY	1	24 X 36	6.0
13.0		R3-17bP	1	24 X 9	1.5

TOTAL TYPE A SIGNS, SHEET ALUMINUM (SF) - 206.5

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663 Sheet C.28

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet C.28

190_62
2/13/23

EXISTING SIGNS TO BE REMOVED

Line No.	Sign Number or Description	Location Station	Direction of Travel	Type 'A' Sign Assembly (RA) (EA)	Type 'A' Remove and Reinstall (RR) (EA)	Remarks
1.0	STOP SIGN, 2 STREET NAME SIGNS	12+69.94	SB	1		
3.0	STOP SIGNS, 2 STREET SIGNS	17+14.04	SB	1		
4.0	NO PARKING	17+60.68	NB	1		
5.0	NO PARKING	19+41.18	NB	1		
6.0	STOP	54+74.15	NB	1		
7.0	NO U TURN	111+85.26	WB			
8.0	NO PARKING	112+84.48	WB	1		
9.0	NO PARKING	115+12.49	WB	1		
10.0	NO PARKING SIGN	214+23.37	SB	1		
11.0	YIELD	214+82.88	NB	1		
12.0	NO PARKING	216+30.59	EB	1		
13.0	NO PARKING	216+67.85	WB	1		
14.0	NO PARKING	217+76.61	WB	1		
15.0	CITY PARK SIGN	218+28.04			1	
16.0	NO PARKING	219+01.13	EB	1		
17.0	NO PARKING	219+16.04	WB	1		
18.0	2 STREET SIGNS	320+35.63	NB	1		
19.0	NO PARKING	320+87.93	EB	1		
20.0	SPEED LIMIT, NO PARKING	452+62.50	EB	1		
21.0	NO PARKING	452+63.53	WB	1		

TOTAL REMOVAL OF SIGN (EA) - 21

190_61
2/10/23

EXISTING SIGNS TO BE REINSTALLED

Line No.	Sign Description	Direction of Travel	Location Station	Number of Posts	Installation Dim 'X'
1.0	BUSINESS 151	EB	108+08.66	1	6.7
2.0	LINCOLN HIGHWAY	EB	115+96.67	1	5.0
3.0	CITY PARK	WB	218+29.89	1	3.0
4.0	SNOW ROUTE	WB	457+58.59	1	3.5

NOTE: "INSTALL. DIM X" COLUMN IS MEASURED AS THE DISTANCE BETWEEN THE BACK OF CURB TO THE CENTER OF THE SIGN POST.

REMOVE AND REINSTALL SIGN AS PER PLAN (EA) - 4

300_99
Modified

STABILIZED CONSTUCTION ENTRANCE

Line No.	Station From	Station To	Width	LF
1	21+61.25	23+16.25	20	155.0
2	35+45.86	36+45.86	20	100.0

TOTAL STABILIZED CONSTRUCTION ENTRANCE (LF) - 255.0

301_99
Modified

SANITARY SEWER

Line No.	Location Station	Offset	Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Notes	Line Number	Utility Access No. From	Utility Access No. To	Pipe Size (IN)	Design Length (FT)	Bid Length (FT)	Slope (%)	Flow Line Inlet Elev.	Flow Line Outlet Elev.	Pipe Profile Sheet No.	Notes
1	16+80.25	19.81 RT	SW-301	799.87	788.67	SA-1	SAP-1	SA-1	EX-SA1	15	410.68	413.43	0.5	788.67	786.68	M.30	
2	17+33.1	16.50 RT	SW-301	800.17	786.84	SA-2	SAP-3	SA-2	SA-3	8	258.64	261	0.6	786.84	785.29	M.31	
3	19+94.17	16.50 RT	SW-301	796.96	785.19	SA-3	SAP-4	SA-3	SA-4	8	36.48	38.48	0.69%	785.19	784.95	M.31	
4	20+32.64	16.50 RT	SW-301	795.81	780.4	SA-4	SAP-5	SA-5	SA-4	8	176.07	180.07	0.85	781.99	780.49	M.31 & M.32	
5	22+11.53	17.92 RT	SW-301	790.47	781.99	SA-5	SAP-6	SA-4	EXISTING SANITARY PIPE	8	60	62	2.6	780.4	778.84	M.31	
6	321+62.28	0.23 LT	SW-301	802.87	788.77		SANITARY SERVICE	SANITARY CLEANOUT	SANITARY CLEANOUT	6	85.86	87.36	2.5	777.7	775.6	M.32	
7	24+42.17	56.88 RT	SW-203	787.7	777.7	SA-8	SANITARY SERVICE	SANITARY CLEANOUT	SANITARY CLEANOUT	6	99.25	100.75	13.7	775.6	762.02	M.32	
8	25+22.91	52.63	SW-203	785.6	775.6	WATER-TIGHT TOP	SANITARY SERVICE	SANITARY CLEANOUT	SANITARY CLEANOUT	6	49.25	50	2.9	762.02	760.59	M.32	
9	26+21.95	71.10 RT	SW-203	781.9	762.02	WATER-TIGHT TOP	SAP-8	SA-8	SA-3	8	151.49	151.49	1.1	788.77	787.09	M.33	
10						WATER TIGHT TOP	SAP-9	EX-SA-2	SA-5	8	211.89	214.89	1	784.26	782.09	M.34	
11							SANITARY SERVICE	222 8TH AVE	SAP-3	4	22.45						17+43.53
12							SANITARY SERVICE	200 9TH AVE	SAP-5	4	23.57						20+38.82
13							SANITARY SERVICE	200 9TH AVE	SAP-5	6	32.94						21+04.84
14							SANITARY SEWER	975 2ND ST	SA-5	8	14	16	5.1	783.31	782.6		
15							SANITARY SERVICE	205 9TH AVE	SAP-8	4	30.6						19+93.79
16							SANITARY SERVICE	225 9TH AVE	SAP-8	4	30.55						19+93.55
17							SANITARY SERVICE	224 9TH AVE	SAP-8	4	29.6						19+93.49
18							SANITARY SERVICE	241 9TH AVE	SAP-8	4	30.5						19+93.34
19							SANITARY SERVICE	250 9TH AVE	SAP-8	4	29.67						19+93.30
20							SANITARY SERVICE	985 2ND ST	SAP-9	4	24.25						22+99.85

TOTAL SW-301 (48'') (EA) - 6
TOTAL SW-203 (EA) - 3
TOTAL 8'' SANITARY SEWER (LF) - 923.9
TOTAL 15'' SANITARY SEWER (LF) - 413.4
TOTAL 4'' SANITARY SERVICE (LF) - 221.2
TOTAL 6'' SANITARY SERVICE (LF) - 271.1

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663

Sheet C.29

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES AND TABULATIONS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet C.29

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PROPOSED WATER MAIN — 2554-1

(2554-0114006, 2554-0112008, 2554-0112012)

LINE	STREET	STATION FROM	STATION TO	LENGTH (FT)	TYPE	DIA. (IN.)	SHEET	NOTES
1	ALBURNETT ROAD	2000+00.00	2005+02.85	503	PVC	6	M.40	
2	7TH AVE	999+78.35	1005+46.49	568	DUCTILE IRON	12	M.41-M.42	
3	8TH AVE	6000+10.00	6001+68.02	156	DUCTILE IRON	12	M.43	
4	8TH AVE	5500+40.81	5500+60.81	20	DUCTILE IRON	12	M.44	
5	8TH AVE	5502+15.29	5502+33.96	20	DUCTILE IRON	12	M.44	
6	9TH AVE	3000+10.00	3001+57.47	150	DUCTILE IRON	8	M.45	
7	2ND ST	4000+10.00	4001+60.00	150	PVC	6	M.46	

TOTALS:

6 INCH PVC:	**653.0 LF**
8 INCH DUCTILE IRON:	**150.0 LF**
12 INCH DUCTILE IRON:	**764.0 LF**

WATER MAIN GATE VALVES — 2554-2

(2554-0207006, 2554-0207008, 2554-0207012)

LINE	STREET	FIXTURE	STATION	SHEET	NOTES
1	ALBURNETT ROAD	6" GATE VALVE	2000+04.73	M.40	
2	7TH AVE	12" GATE VALVE	1005+30.22	M.42	
3	8TH AVE	12" GATE VALVE	6001+67.02	M.43	
4	9TH AVE	8" GATE VALVE	3001+42.87	M.45	

TOTALS:

6 INCH DUCTILE IRON:	**1 EA**
8 INCH DUCTILE IRON:	**1 EA**
12 INCH DUCTILE IRON:	**2 EA**

FIRE HYDRANT ASSEMBLY — 2554-3

(2554-0210201)

LINE	STREET	STATION	OFFSET	SHEET	NOTES
1	ALBURNETT ROAD	2000+40.97	6.50' LT	M.40	
2	7TH AVE	1005+22.68	16.09' RT	M.42	
3	9TH AVE	3000+22.00	6.00' LT	M.45	
4	2ND ST	4000+86.35	15.00' LT	M.46	

TOTALS:

FIRE HYDRANT ASSEMBLY WM-201: 4 EA

FIRE HYDRANT ASSEMBLY REMOVAL — 2554-4

(2554-0210205)

LINE	STREET	STATION	OFFSET	SHEET	NOTES
1	7TH AVE	115+67.44	29.39' RT	Q.7	
2	ALBURNETT ROAD	17+05.37	40.45' RT	Q.2	

TOTALS:

FIRE HYDRANT ASSEMBLY REMOVAL: 2 EA

VALVE BOX REMOVALS — 2554-5

(2554-0212050)

LINE	STREET	FIXTURE	STATION	OFFSET	NOTES
1	7TH AVE	VALVE BOX	110+97.61	79.98' LT	Q.6
2	8TH AVE	CURB STOP	216+33.24	21.32' LT	Q.8
3	8TH AVE	CURB STOP	216+58.75	24.15' RT	Q.8
4	ALBURNETT ROAD	VALVE BOX	19+77.43	50.62' LT	Q.10
5	ALBURNETT ROAD	VALVE BOX	19+80.52	53.23' LT	Q.10
6	ALBURNETT ROAD	VALVE BOX	19+82.21	55.10' LT	Q.10
7	ALBURNETT ROAD	CURB STOP	20+18.83	5.17' RT	Q.10
8	ALBURNETT ROAD	CURB STOP	20+31.97	30.17' RT	Q.10

TOTALS:

VALVE BOX REMOVAL: 8 EA

WATER SERVICE STUB AND CURB STOP — 2554-6

(2554-0205110, 2554-0205300, 2554-0205600)

LINE	STREET	STATION	LF	SHEET	NOTES
1	ALBURNETT ROAD	2003+46.76	3.3	M40	RT
2	7TH AVE	1002+26.18	44.7	M41	LT
3	7TH AVE	1003+16.36	21.3	M41	RT
4	7TH AVE	1003+55.65	58.1	M41	LT
5	7TH AVE	1004+68.45	58.9	M42	LT
6	7TH AVE	1004+91.55	23.3	M42	RT
7	7TH AVE	1004+95.43	23.3	M42	RT
8	7TH AVE	1005+27.93	47.4	M42	LT
9	8TH AVE	6001+37.02	7.0	M43	RT
10	8TH AVE	217+73.35	40.7	M44	RT
11	8TH AVE	218+74.29	43.3	M44	RT
12	8TH AVE	219+36.83	42.0	M44	RT
13	8TH AVE	219+82.24	9.2	M44	RT
14	8TH AVE	5502+24.67	6.2	M44	LT
15	9TH AVE	3000+48.20	8.9	M45	RT
16	9TH AVE	3000+93.04	10.3	M45	RT
17	9TH AVE	3001+02.07	57.8	M45	LT
18	2ND ST	4000+27.61	10.5	M46	RT
19	2ND ST	4000+96.35	83.9	M46	LT
20	2ND ST	4001+15.17	5.9	M46	RT
21	2ND ST	4001+16.67	5.8	M46	RT

TOTALS:

WATER SERVICE STUB:	**611.8 LF**
WATER SERVICE CORPORATION:	**21 EA**
VALVE SERVICE CURB STOP AND BOX:	**21 EA**

WATER MAIN FITTINGS — 2554-7

(2554-0203000, 2554-0211000)

LINE	STREET	STATION	FIXTURE	WEIGHT (LBS)	SHEET	NOTES
1	ALBURNETT ROAD	2000+04.73	6" DI - 45 DEGREE BEND	44	M.40	
2	ALBURNETT ROAD	2000+14.53	6" DI - 45 DEGREE BEND	44	M.40	
3	ALBURNETT ROAD	2002+79.69	6" DI - 6"X6" TEE	125	M.40	
4	7TH AVE	999+78.35	12" SLEEVE	76	M.41	
5	7TH AVE	1000+17.19	12" DI - 45 DEGREE BEND	101	M.41	
6	7TH AVE	1000+24.45	12" DI - 45 DEGREE BEND	101	M.41	
7	7TH AVE	1005+35.77	12" DI - 90 DEGREE BEND	124	M.42	
8	7TH AVE	1005+35.77	TEMP BLOW OFF	N/A	M.42	
9	7TH AVE	1005+35.77	12" CAP	42	M.42	
10	7TH AVE	1005+41.08	12" DI - 90 DEGREE BEND	124	M.42	
11	7TH AVE	1005+43.42	12"X10" REDUCER	190	M.42	
12	7TH AVE	1005+43.42	10" SLEEVE	62	M.42	
13	8TH AVE	6001+68.02	12" DI - 45 DEGREE BEND	101	M.43	
14	8TH AVE	6001+68.02	12" SLEEVE	76	M.43	
15	8TH AVE	6001+66.02	12" DI - 90 DEGREE BEND	124	M.43	
16	8TH AVE	6001+66.02	12" DI - 90 DEGREE BEND	124	M.43	
17	8TH AVE	6001+64.48	12" DI - 45 DEGREE BEND	101	M.43	
18	8TH AVE	6000+47.00	12" DI - 45 DEGREE BEND	101	M.43	
19	8TH AVE	6000+41.95	12" DI - 45 DEGREE BEND	101	M.43	
20	8TH AVE	6000+16.71	12" DI - 45 DEGREE BEND	101	M.43	
21	8TH AVE	6000+12.00	12" DI - 45 DEGREE BEND	101	M.43	
22	8TH AVE	6000+11.00	12" SLEEVE	76	M.43	
23	8TH AVE	6000+11.00	12" SLEEVE	76	M.43	
24	8TH AVE	6000+11.00	12"X12" CROSS	495	M.43	
25	8TH AVE	6000+11.00	12" PLUG	46	M.43	
26	8TH AVE	6000+11.00	12" SLEEVE	76	M.43	
27	8TH AVE	5500+40.81	12" SLEEVE	76	M.44	
28	8TH AVE	5500+41.81	12" DI - 45 DEGREE BEND	101	M.44	
29	8TH AVE	5500+43.08	12" DI - 45 DEGREE BEND	101	M.44	
30	8TH AVE	5500+58.58	12" DI - 45 DEGREE BEND	101	M.44	
31	8TH AVE	5500+59.89	12" DI - 45 DEGREE BEND	101	M.44	
32	8TH AVE	5500+60.81	12" SLEEVE	76	M.44	
33	8TH AVE	5502+15.29	12" SLEEVE	76	M.44	
34	8TH AVE	5502+17.29	12" DI - 45 DEGREE BEND	101	M.44	
35	8TH AVE	5502+21.53	12" DI - 45 DEGREE BEND	101	M.44	
36	8TH AVE	5502+27.70	12" DI - 45 DEGREE BEND	101	M.44	
37	8TH AVE	5502+31.99	12" DI - 45 DEGREE BEND	101	M.44	
38	8TH AVE	5502+33.96	12" SLEEVE	76	M.44	
39	9TH AVE	3000+10.00	8"X6" REDUCER	54	M.45	
40	9TH AVE	3001+44.87	8" DI - 8"X8" TEE	185	M.45	
41	9TH AVE	3001+46.87	8" CAP	22	M.45	
42	9TH AVE	3001+53.37	8" DI - 90 DEGREE BEND	61	M.45	
43	9TH AVE	3001+57.37	8" SLEEVE	46	M.45	
44	2ND ST	4001+59.67	TEMP BLOW OFF	N/A	M.46	

TOTALS:

FITTINGS BY WEIGHT, DI:	**4212 LBS**
TEMPORARY BLOWOFF:	**2 EA**

SEGMENTAL BLOCK RETAINING WALL (2431-0000100) — 2431-1

BEGIN STATION AND OFFSET	END STATION AND OFFSET	SHEET NUMBER	AREA (SF)
17+29.44; 40.09' LT	18+48.86; 64.83' LT	U.7	723.6
19+07.20, 46.73' RT	19+63.77, 62.36' RT	U.7	269.3
20+23.35, 45.01' RT	20+74.00, 48.97' RT	U.8	199.0
20+62.98, 40.00' RT	20+67.97, 40.39' RT	U.8	44.0
110+99.49, 47.50' RT	112+40.00, 47.50' RT	U.10	555.8
115+58.04, 46.28' RT	116+05.16, 38.66' RT	U.11	201.5
		TOTAL	**1993.2**

SPECIAL RETAINING WALL, AS PER PLAN (2431-0000100) — 2431-2

BEGIN STATION AND OFFSET	END STATION AND OFFSET	SHEET NUMBER	AREA (SF)
321+06.41, 34.41' RT	321+09.54, 21.92' RT	U.10	47.2

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/12/2026
Project No: 116.0663 | Sheet C.30

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ESTIMATE OF QUANTITIES & TABULATIONS

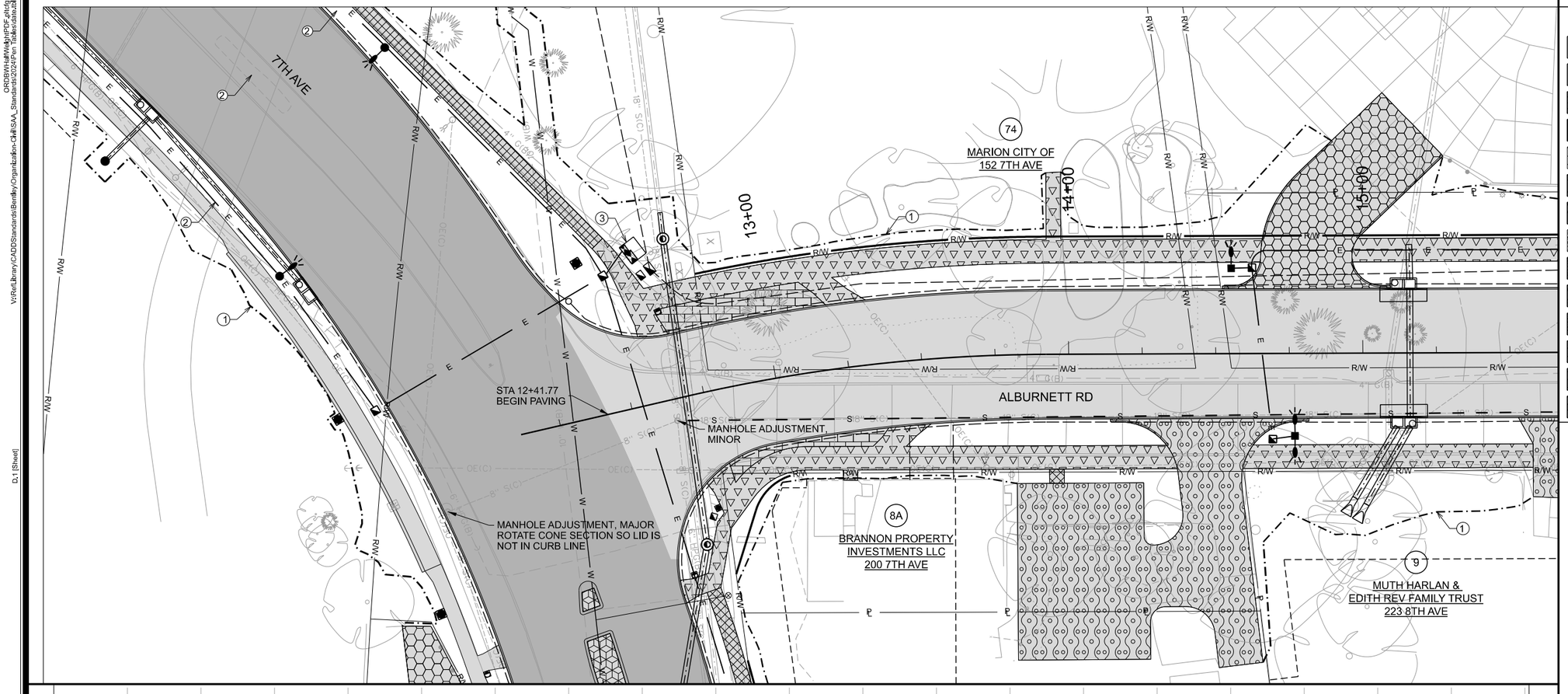
CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

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Project No: 116.0663

Sheet C.30

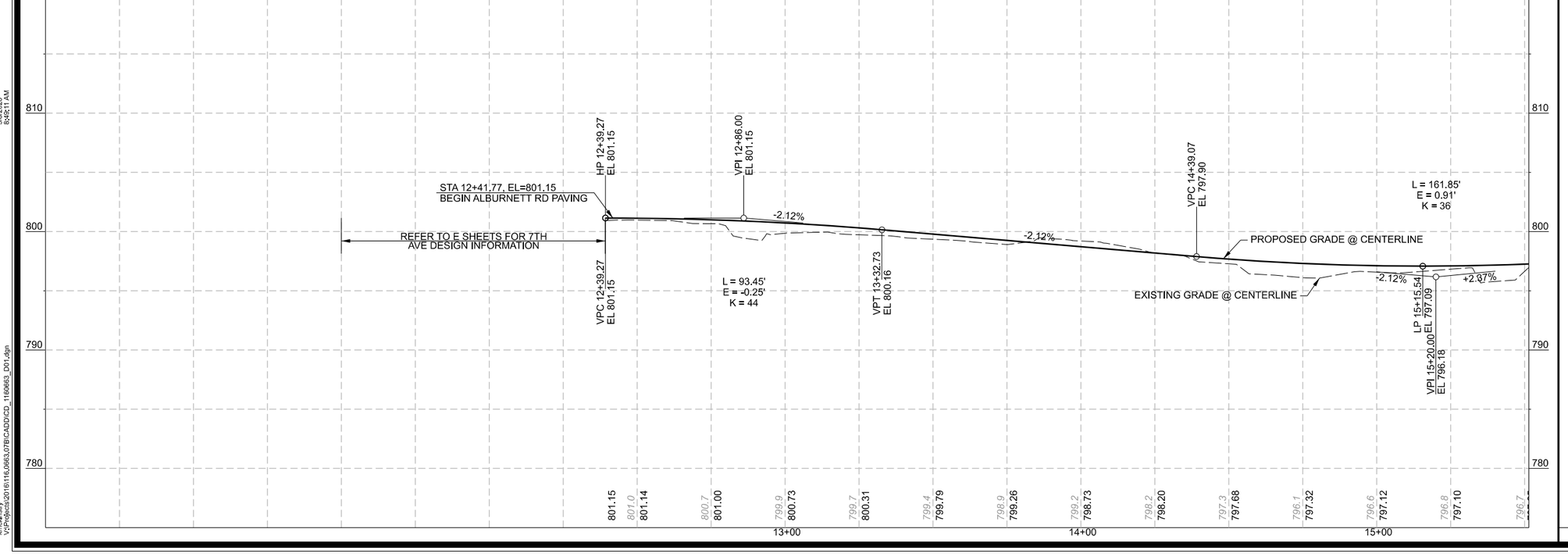


LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS
2. OLD BRIDGE PIERS WERE REMOVED 2' BELOW GRADE. REMOVE BURIED BRIDGE PIERS AS NEEDED FOR EXCAVATION
3. REFER TO N SHEETS FOR TRAFFIC SIGNAL EQUIPMENT



0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026

Project No: 116.0663

Sheet D.1

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ALBURNETT RD PLAN AND PROFILE

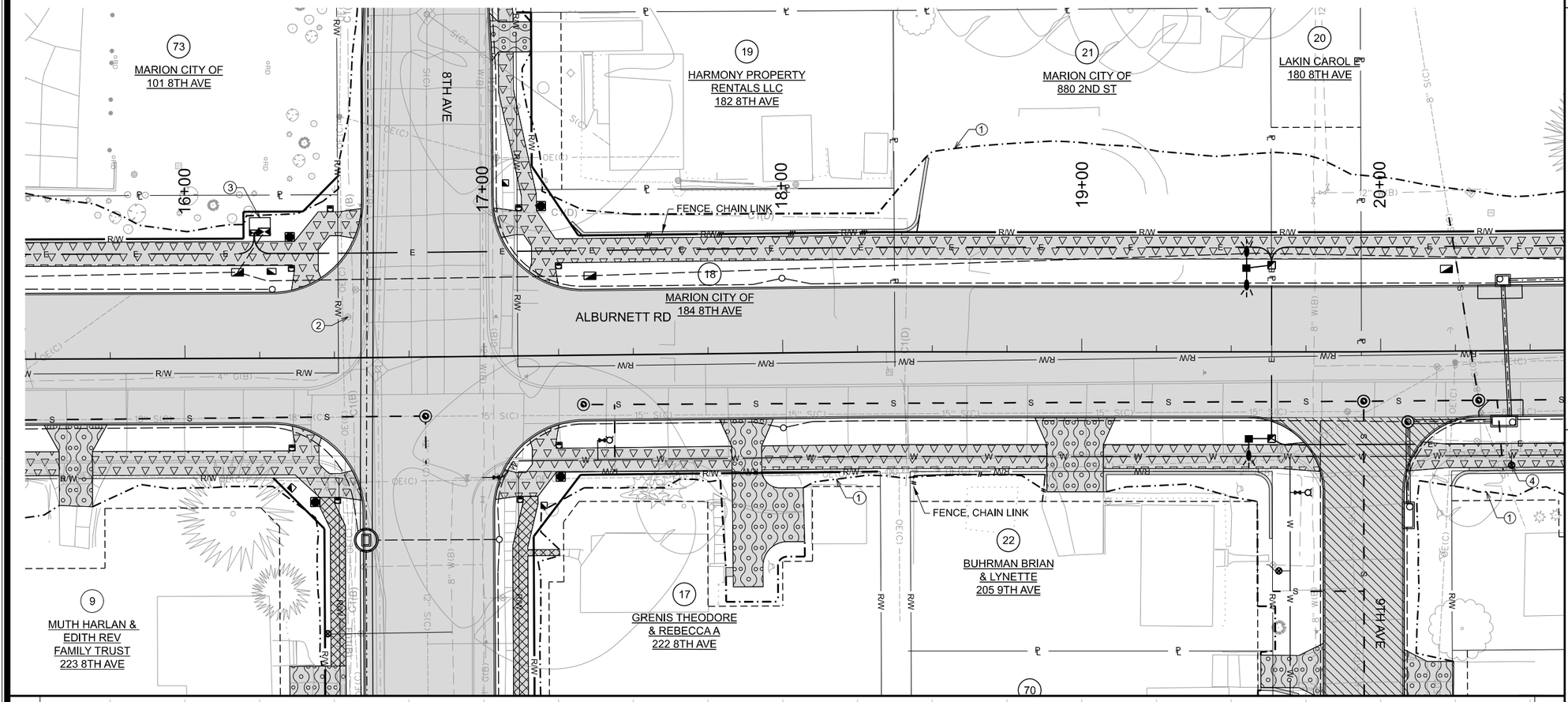
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

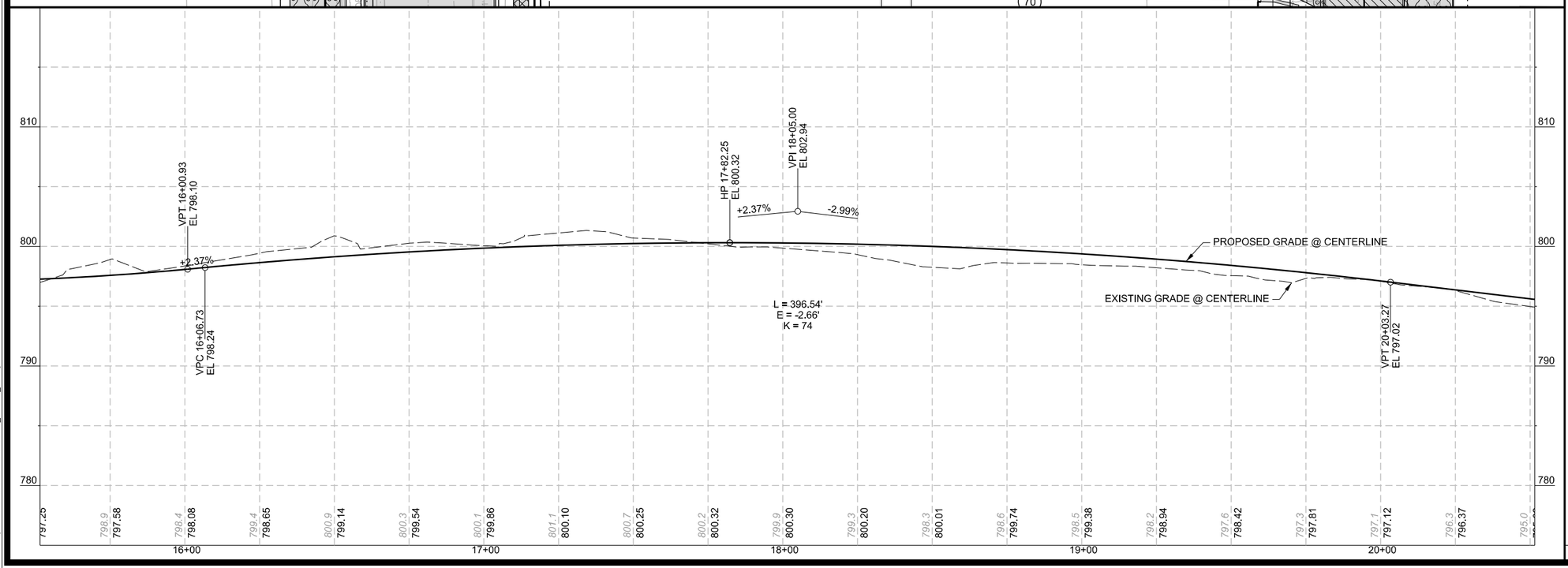
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet D.1

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LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS
2. UTILITY MANHOLE ADJUSTMENT BY OTHERS
3. REFER TO N SHEETS FOR TRAFFIC SIGNAL EQUIPMENT
4. VALVE BOX ADJUSTMENT, MINOR

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026
Project No: 116.0663
Sheet D.2

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ALBURNETT RD PLAN AND PROFILE

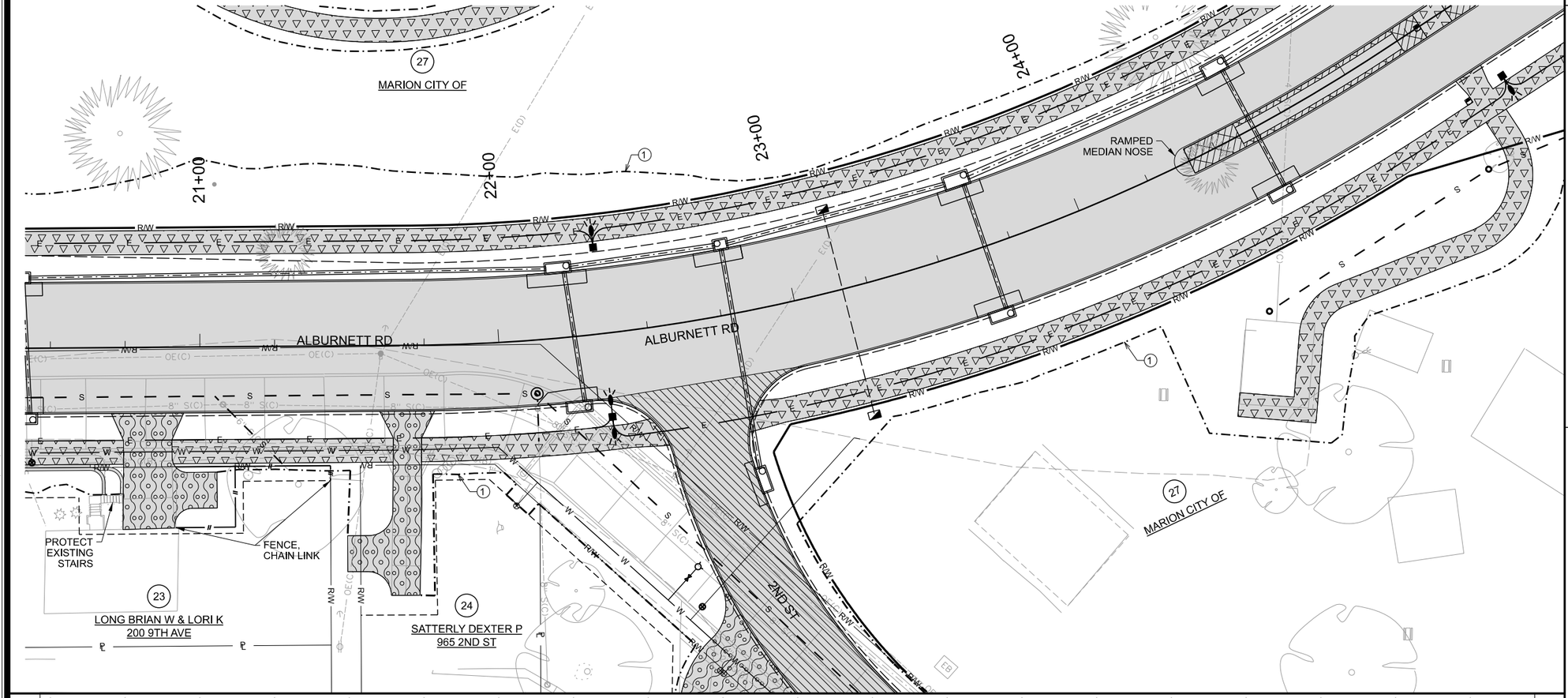
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

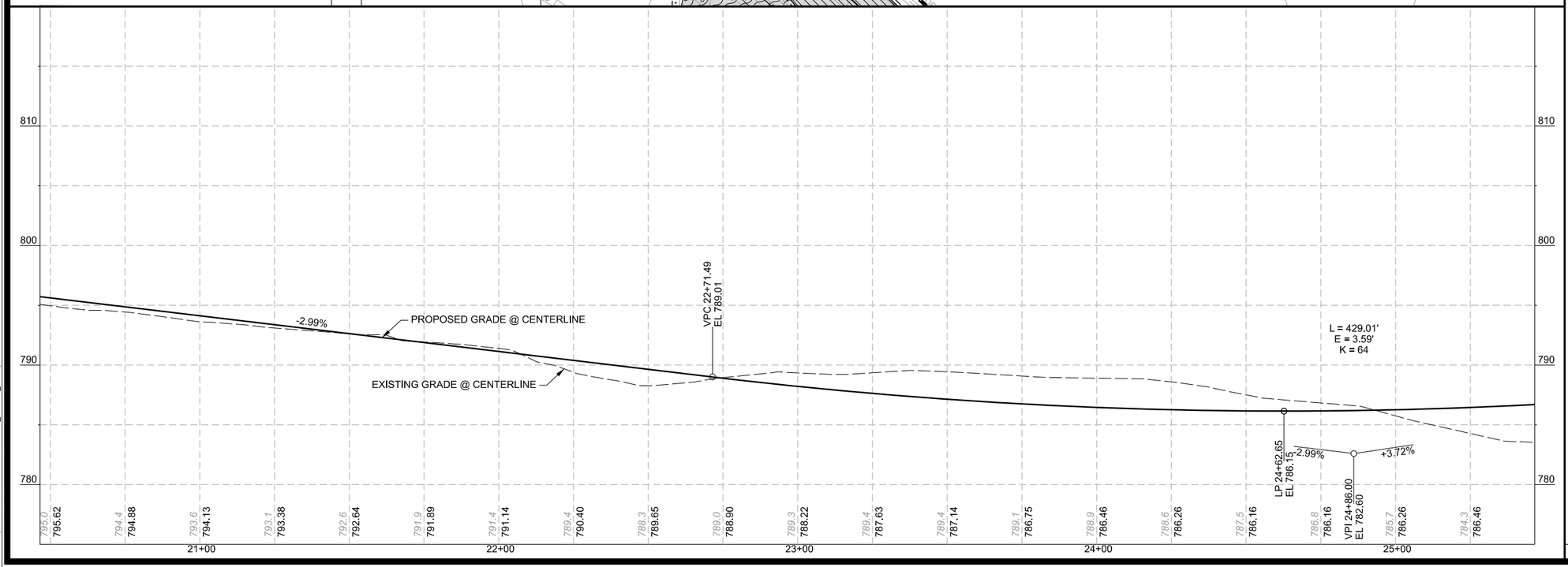
SNYDER & ASSOCIATES

Project No: 116.0663
Sheet D.2

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LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet D.3

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ALBURNETT RD PLAN AND PROFILE

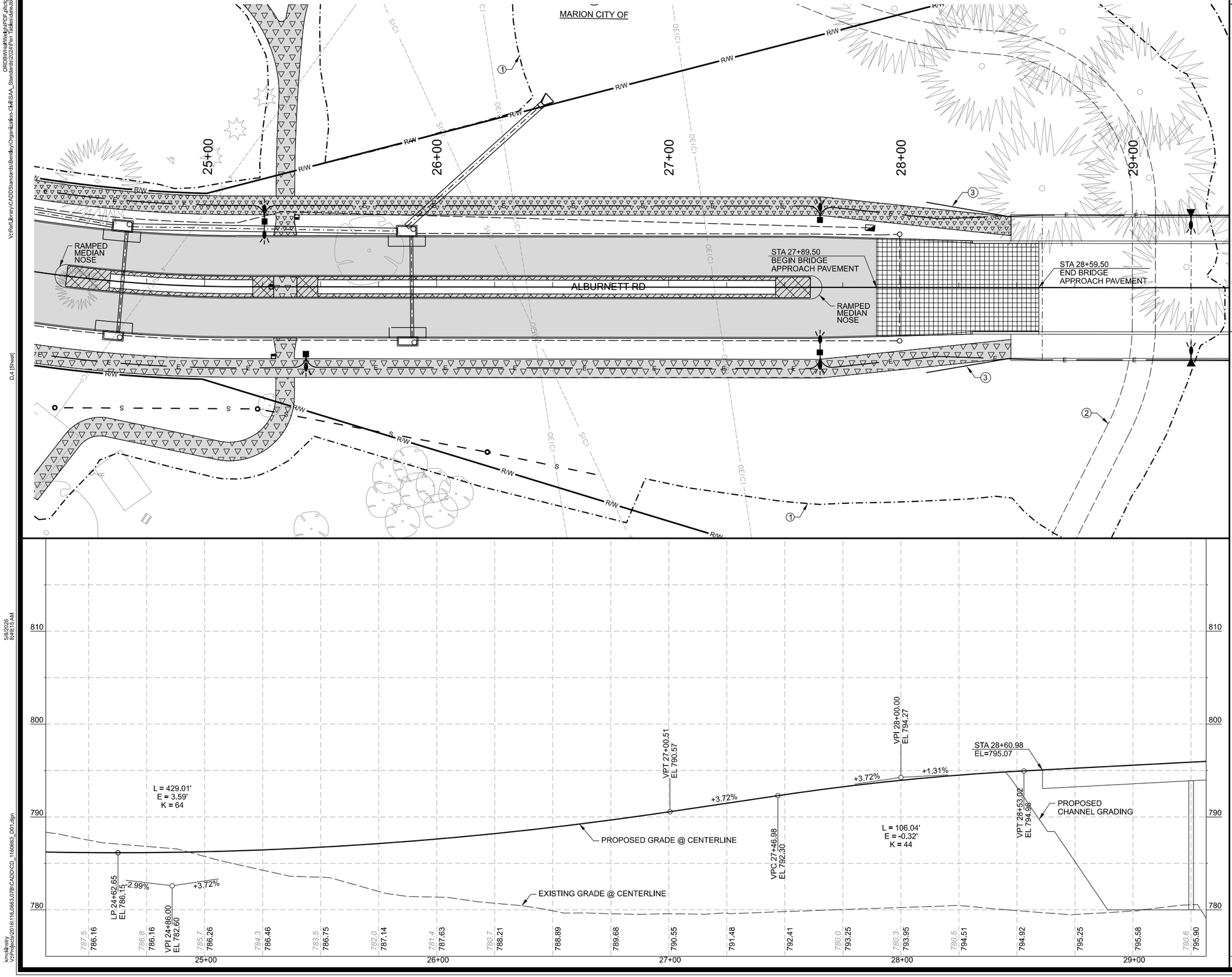
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

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Project No: 116.0663
Sheet D.3

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LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS
2. FUTURE TRAIL
3. SAFETY RAIL

REFER TO THE V SHEETS FOR STRUCTURAL BRIDGE INFO

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet D.4

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ALBURNETT RD PLAN AND PROFILE

CITY OF MARION, IOWA

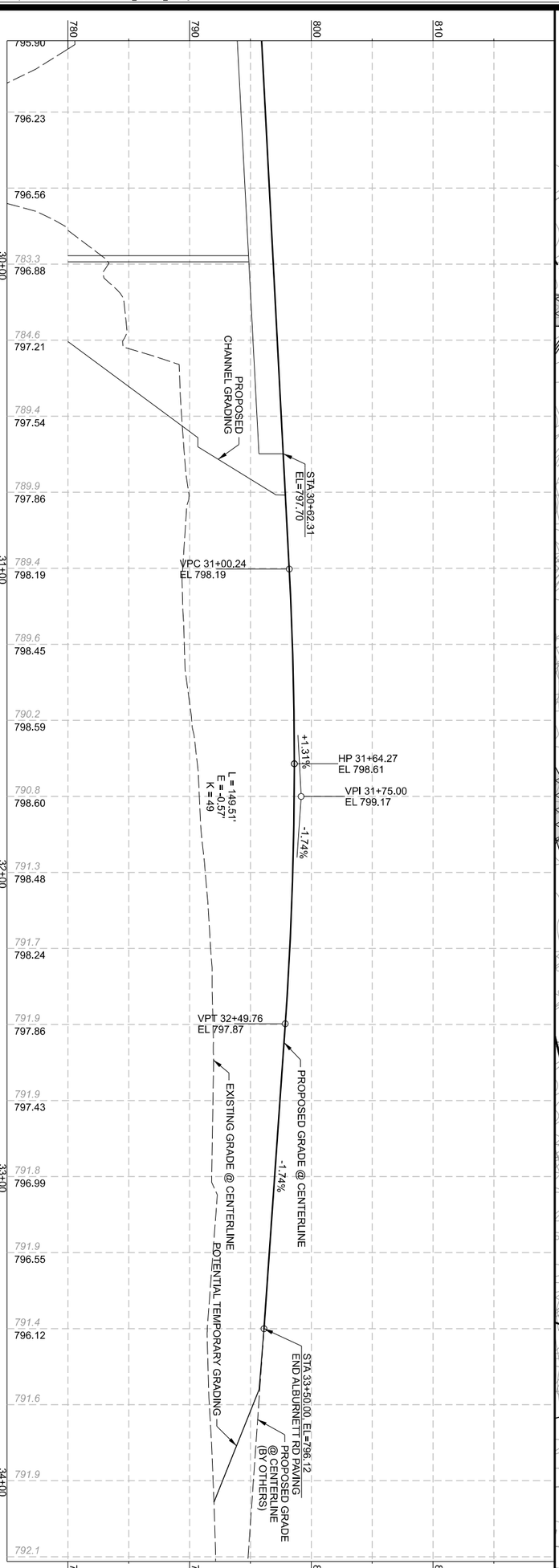
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

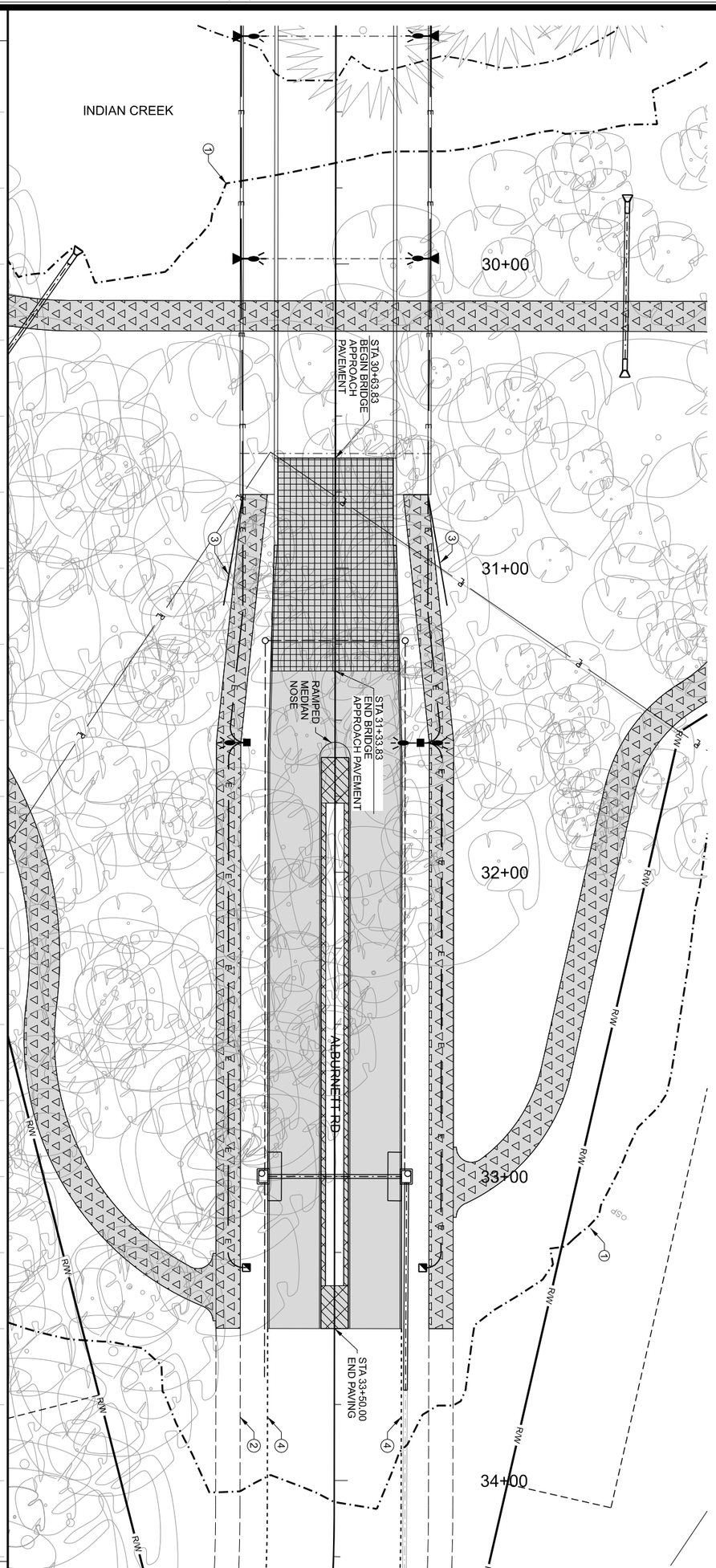
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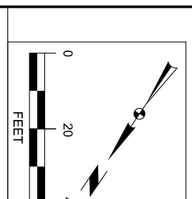
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Sheet D.4

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NOTES

1. GRADING LIMITS
2. FUTURE SIDEWALK
3. SAFETY RAIL
4. PUBLIC IMPROVEMENTS BY OTHERS

REFER TO V SHEETS FOR STRUCTURAL BRIDGE INFO

LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6" COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6" STANDARD CONCRETE

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ALBURNETT RD PLAN AND PROFILE

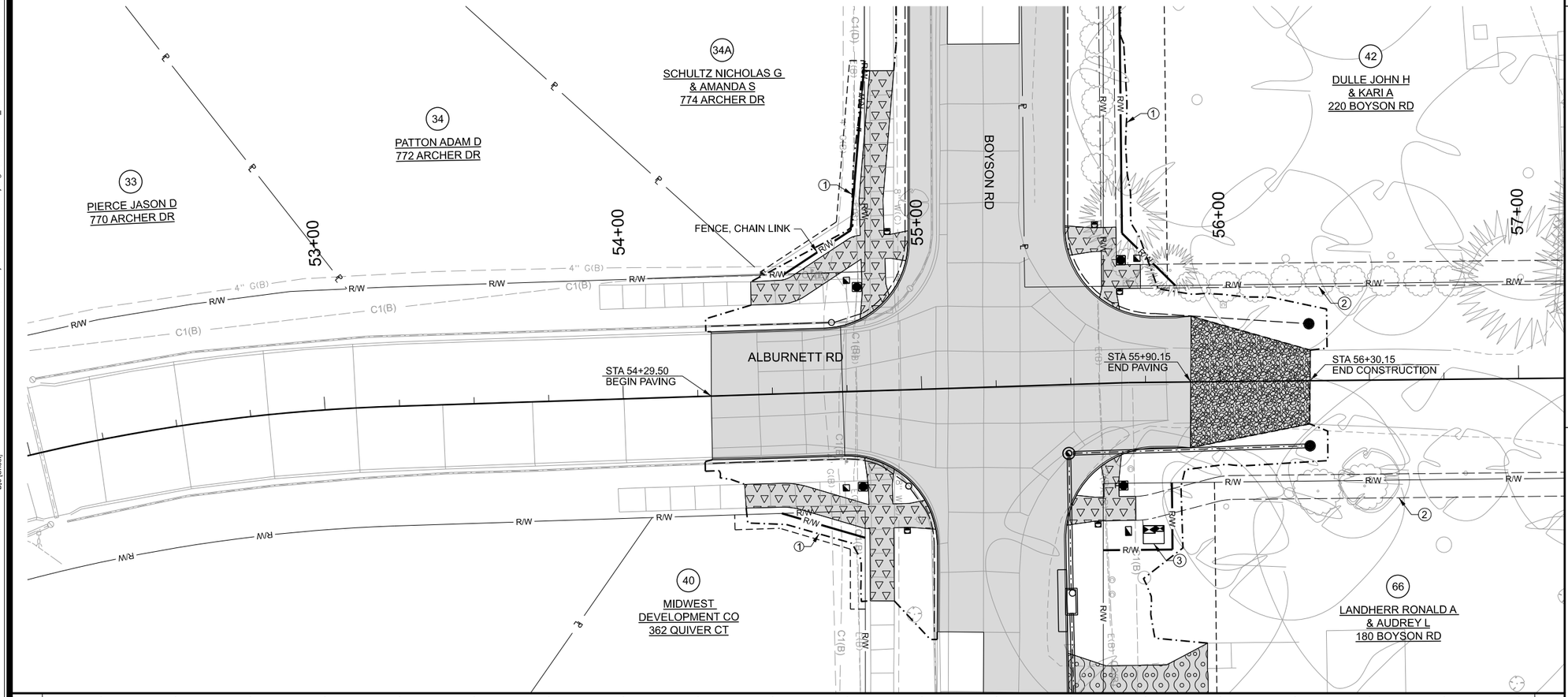
CITY OF MARION, IOWA

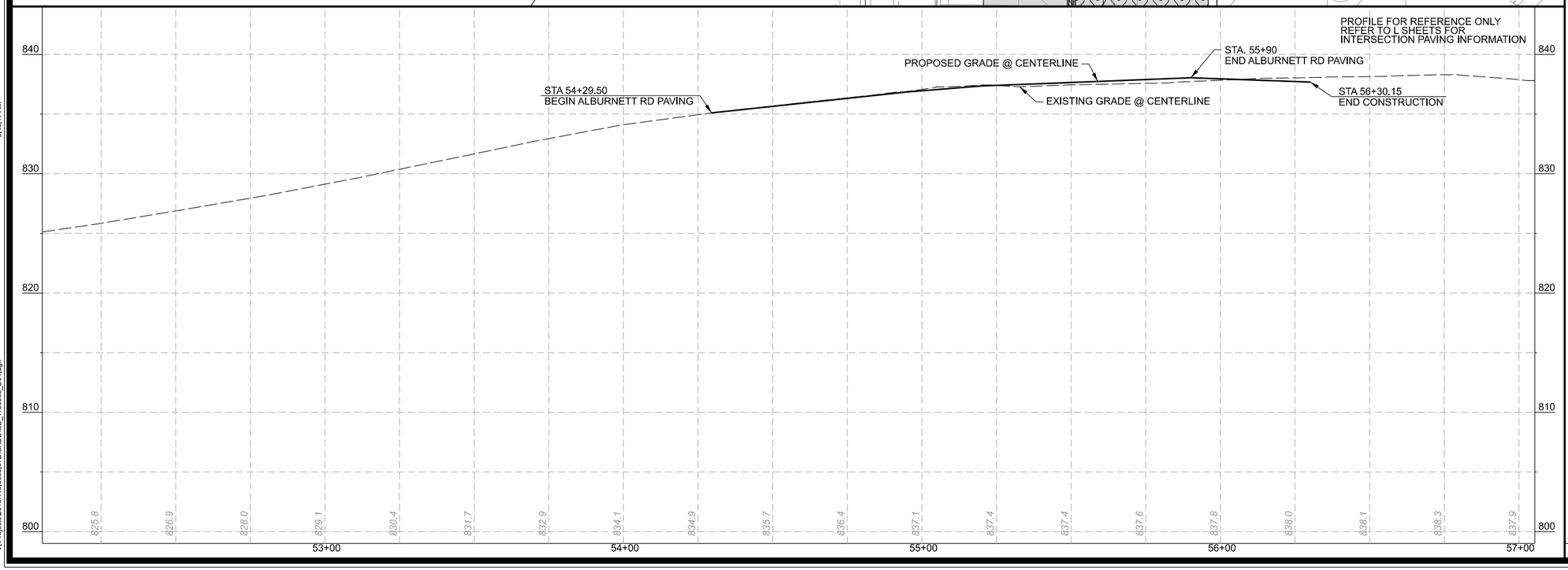
SNYDER & ASSOCIATES, INC.

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DOT PROJECT NUMBER: HDP-4775(646)--71-57	
FINAL PLANS	5/13/2026
MARK / REVISION	DATE / BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026
Field Bk:	Pg:
Project No: 116.0663	Sheet D.5

Project No: 116.0663
Sheet D.5





LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS
2. FUTURE SIDEWALK
3. REFER TO N SHEETS FOR SIGNAL TRAFFIC EQUIPMENT

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet D.6

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

ALBURNETT RD PLAN AND PROFILE

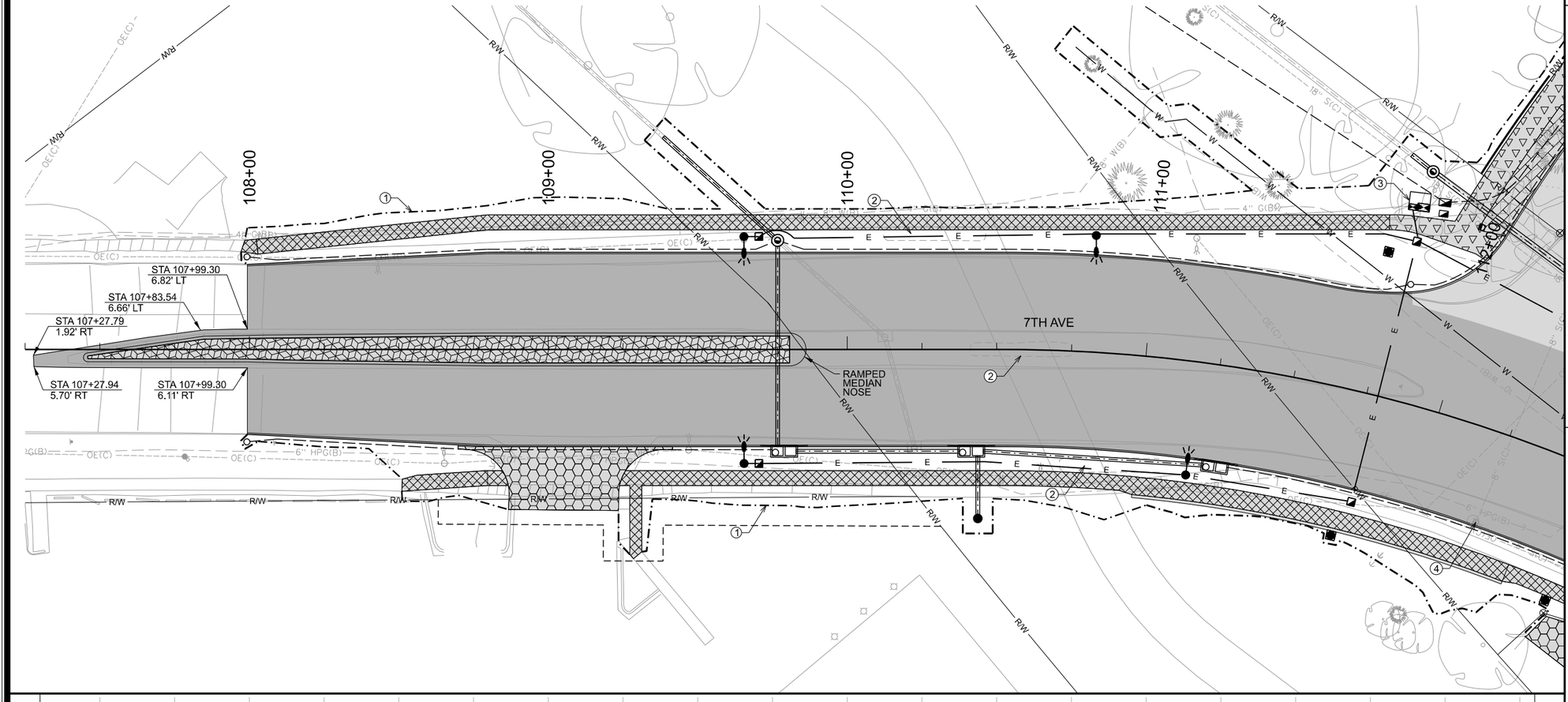
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

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Project No: 116.0663

Sheet D.6

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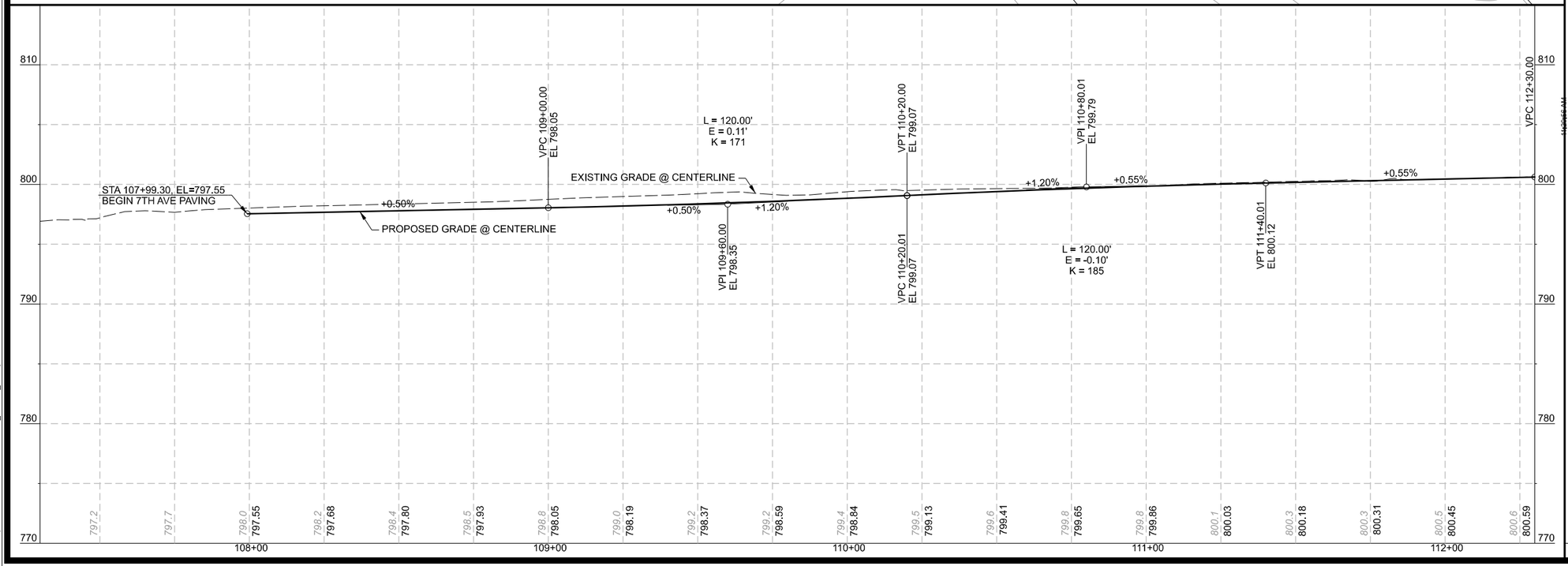


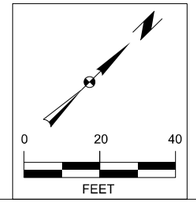
LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS
2. OLD BRIDGE PIERS WERE REMOVED 2' BELOW GRADE. REMOVE BURIED BRIDGE PIERS AS NEEDED FOR EXCAVATION
3. REFER TO N SHEETS FOR TRAFFIC SIGNAL EQUIPMENT
4. MANHOLE ADJUSTMENT, MAJOR





DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Field Bk.:
Technician: KMM | Date: 5/13/2026 | Pg.:

Project No: 116.0663

Sheet E.1

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

7TH AVE PLAN AND PROFILE

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

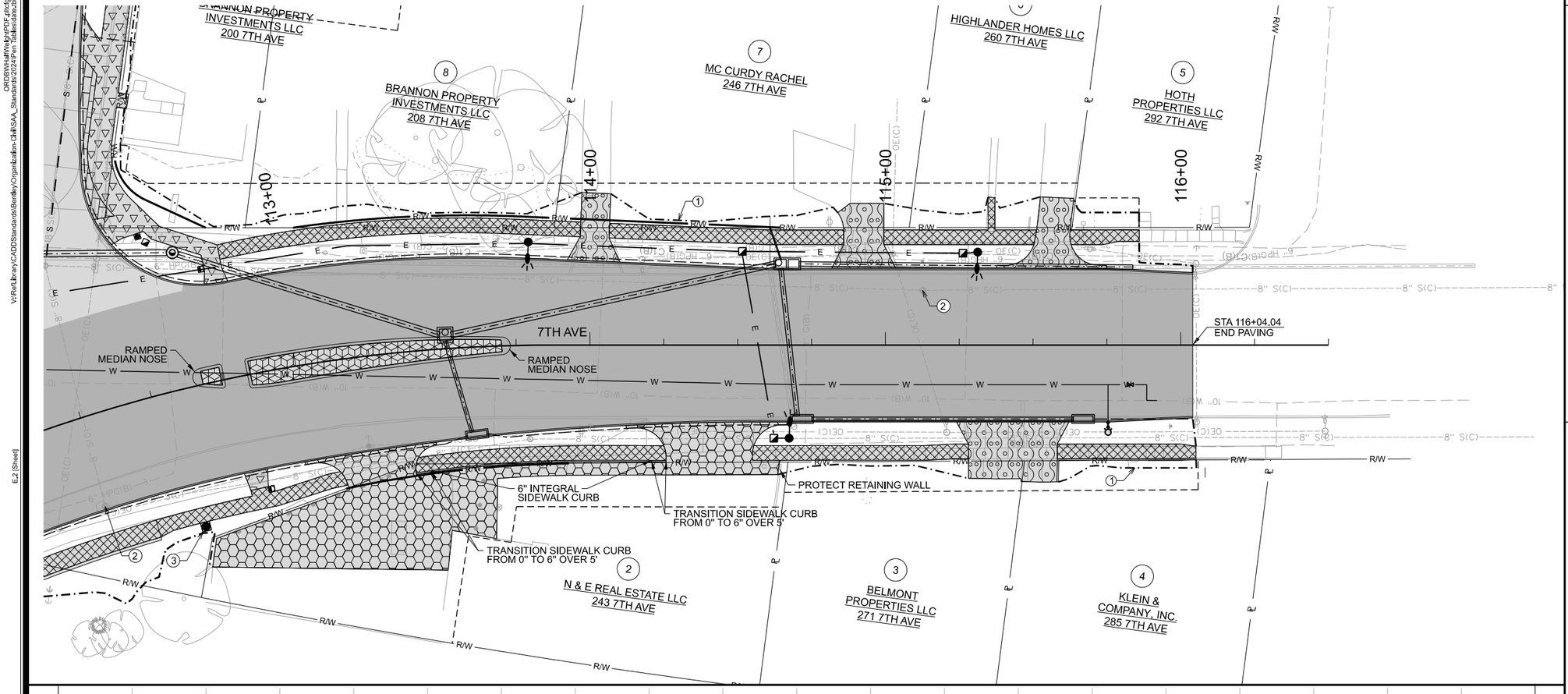
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Project No: 116.0663

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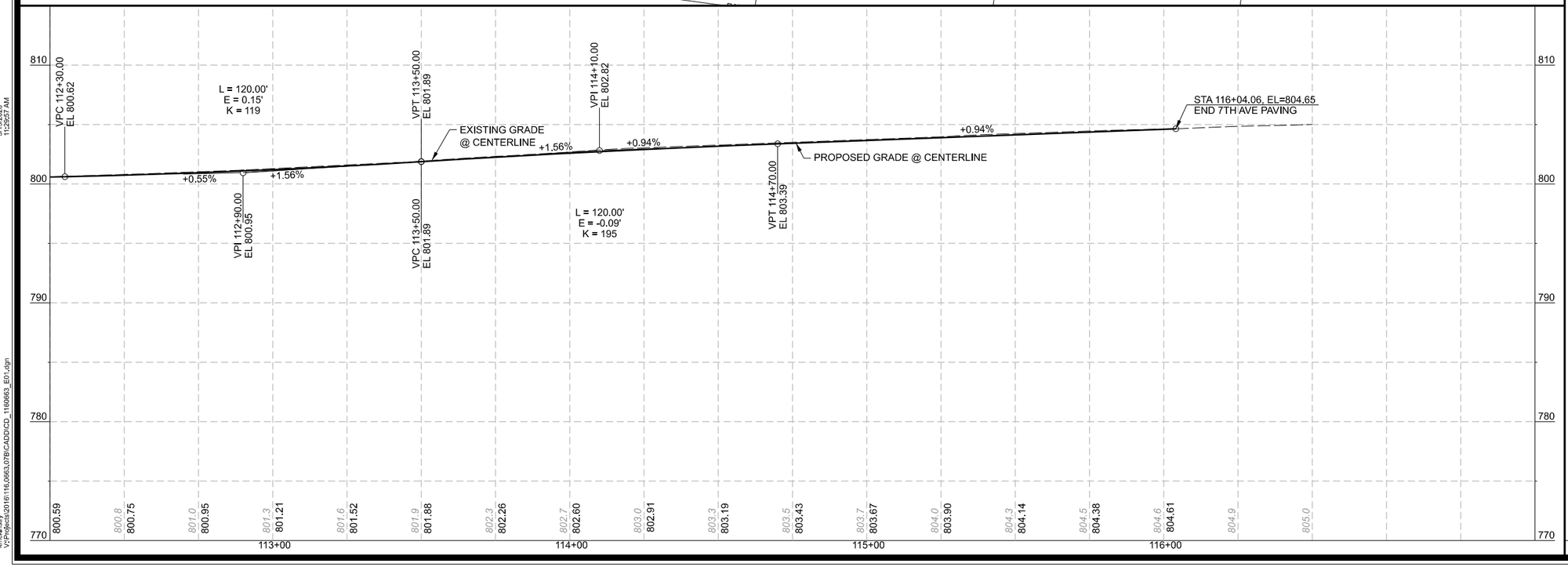


LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

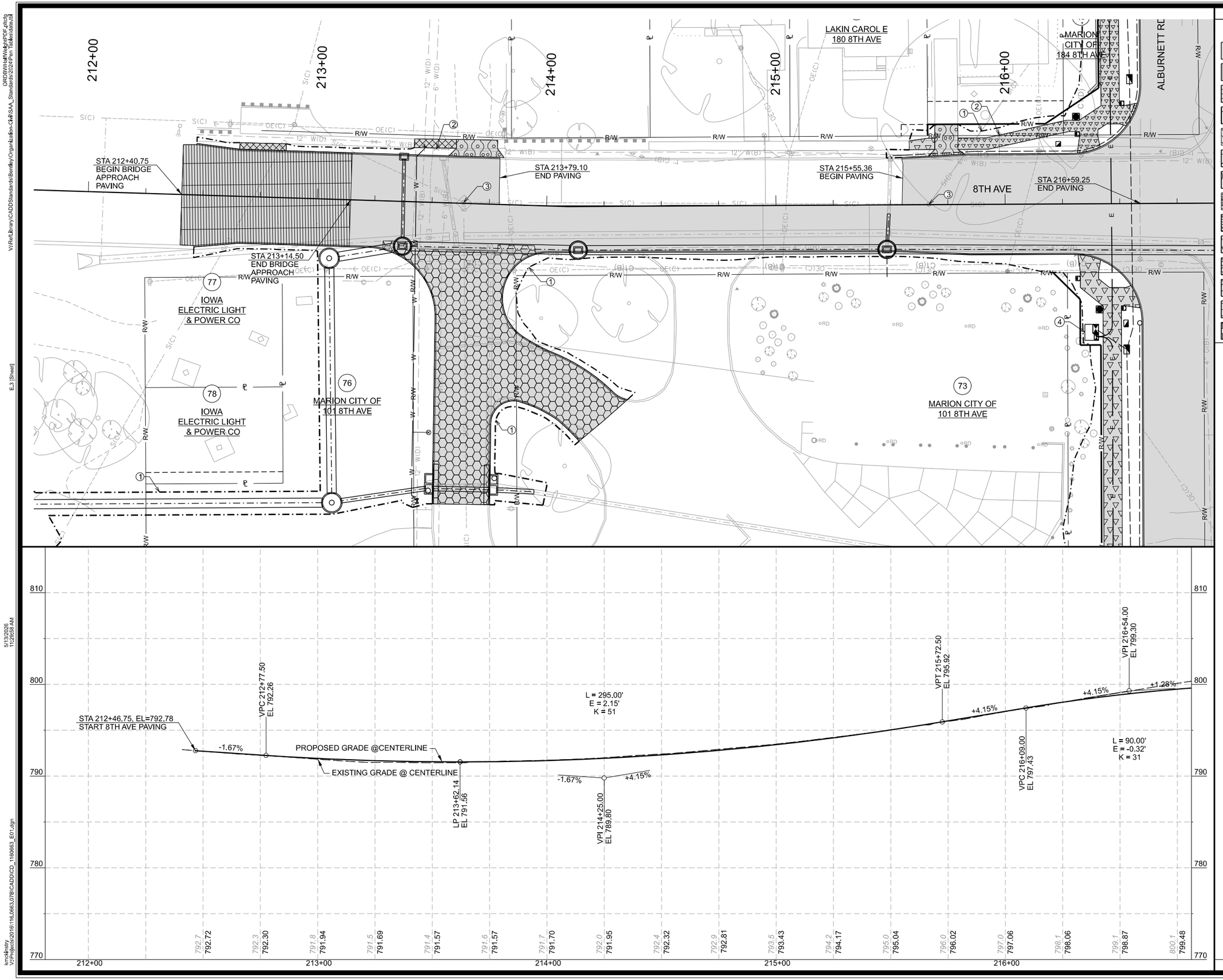
1. GRADING LIMITS
2. MANHOLE ADJUSTMENT, MINOR
3. REFER TO N SHEETS FOR TRAFFIC SIGNAL EQUIPMENT



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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57					

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LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS
2. VALVE BOX ADJUSTMENT, MINOR
3. MANHOLE ADJUSTMENT, MINOR
4. REFER TO N SHEETS FOR TRAFFIC SIGNAL EQUIPMENT

N

0 20 40

FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS Field Bk.:
Technician: KMM Date: 5/13/2026 Pg.:

Project No: 116.0663

Sheet E.3

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

8TH AVE PLAN AND PROFILE

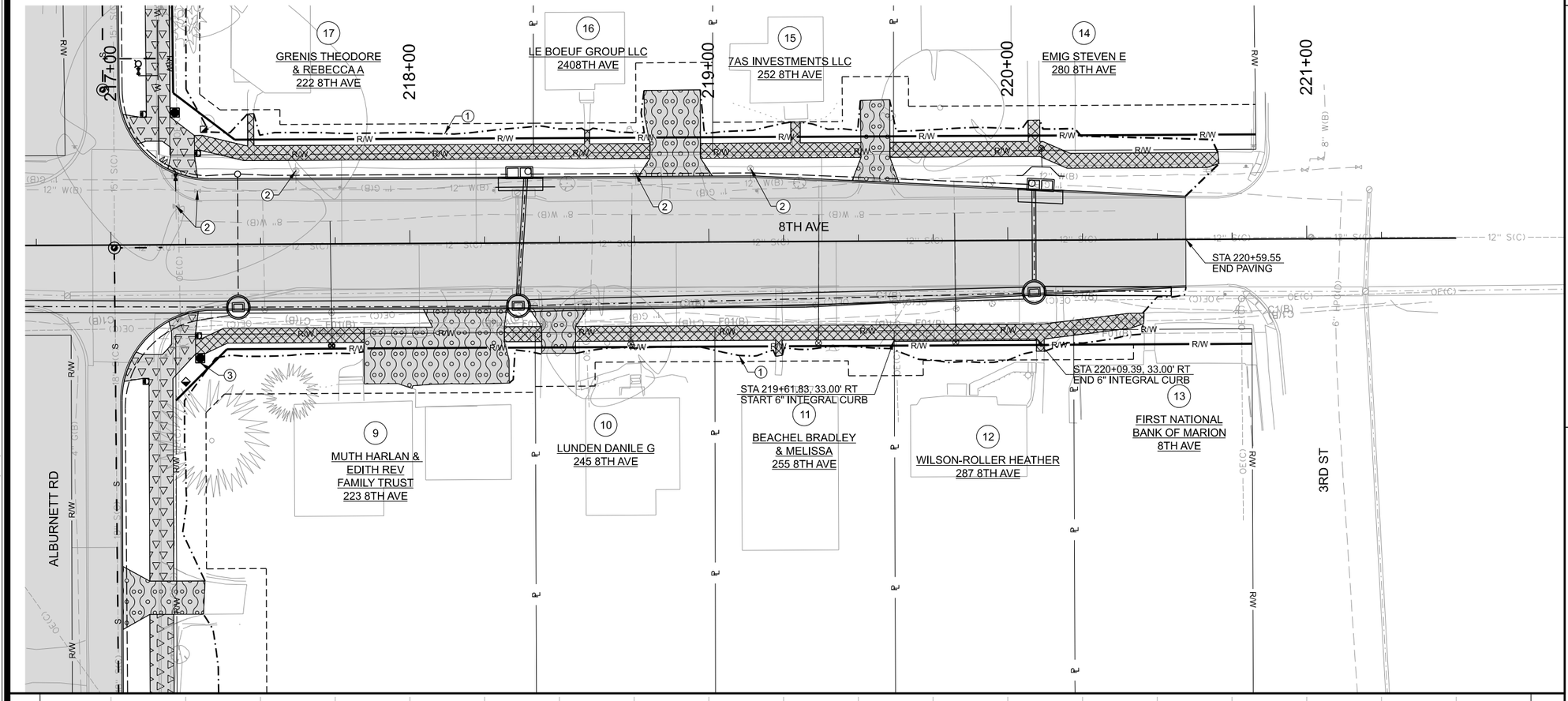
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

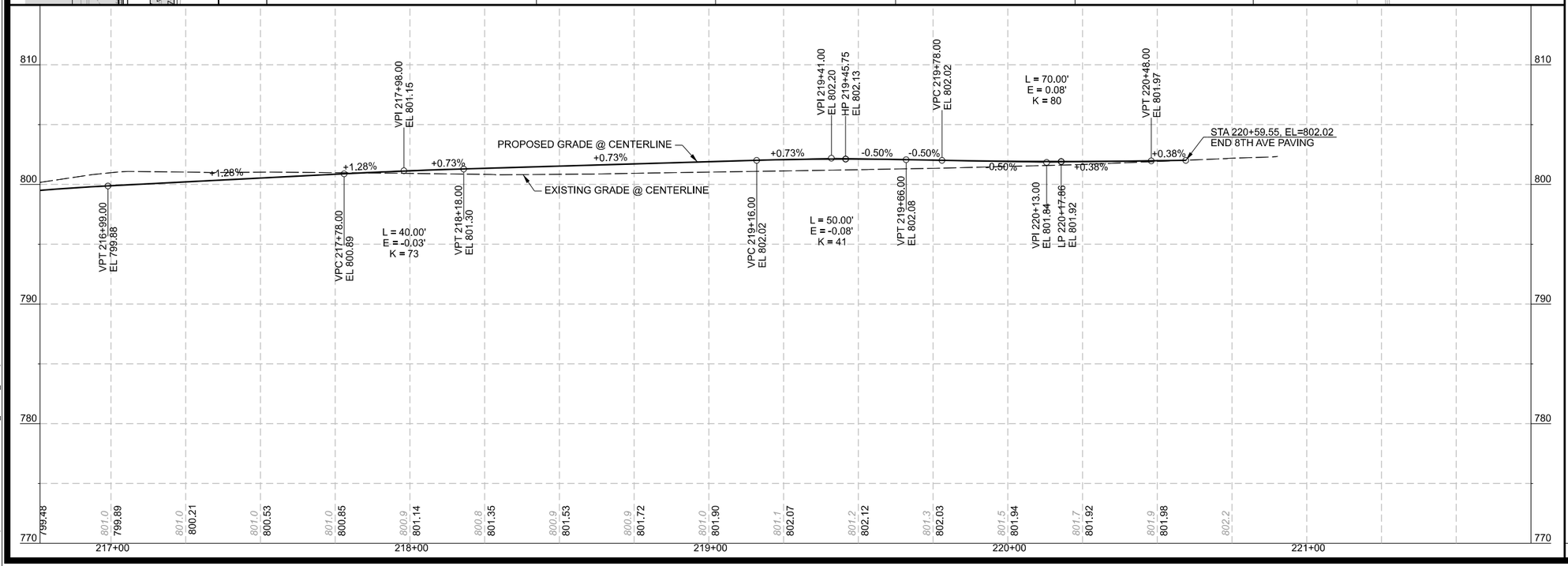
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Project No: 116.0663

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LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS
2. VALVE BOX ADJUSTMENT, MINOR
3. REFER TO N SHEETS FOR TRAFFIC SIGNAL EQUIPMENT

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/13/2026 Pg:

Project No: 116.0663

Sheet E.4

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

8TH AVE PLAN AND PROFILE

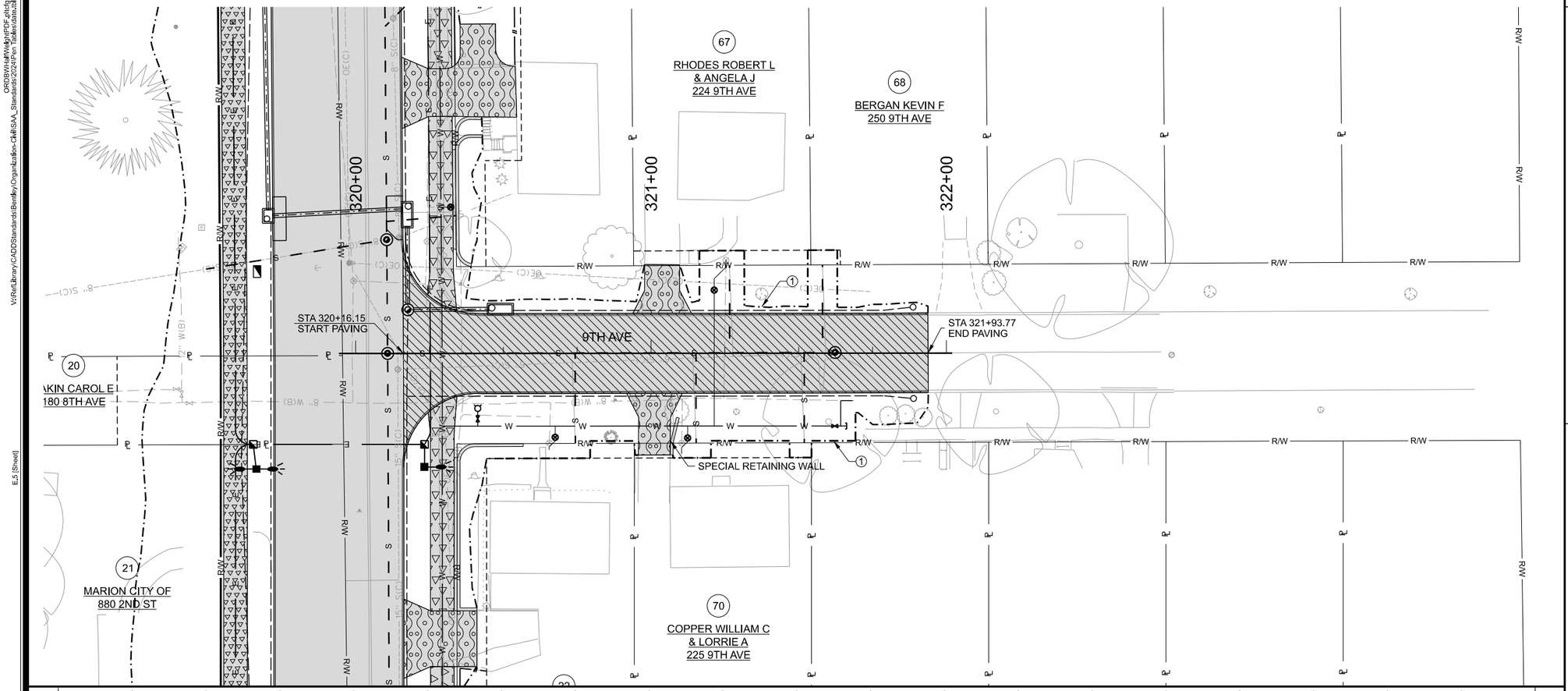
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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

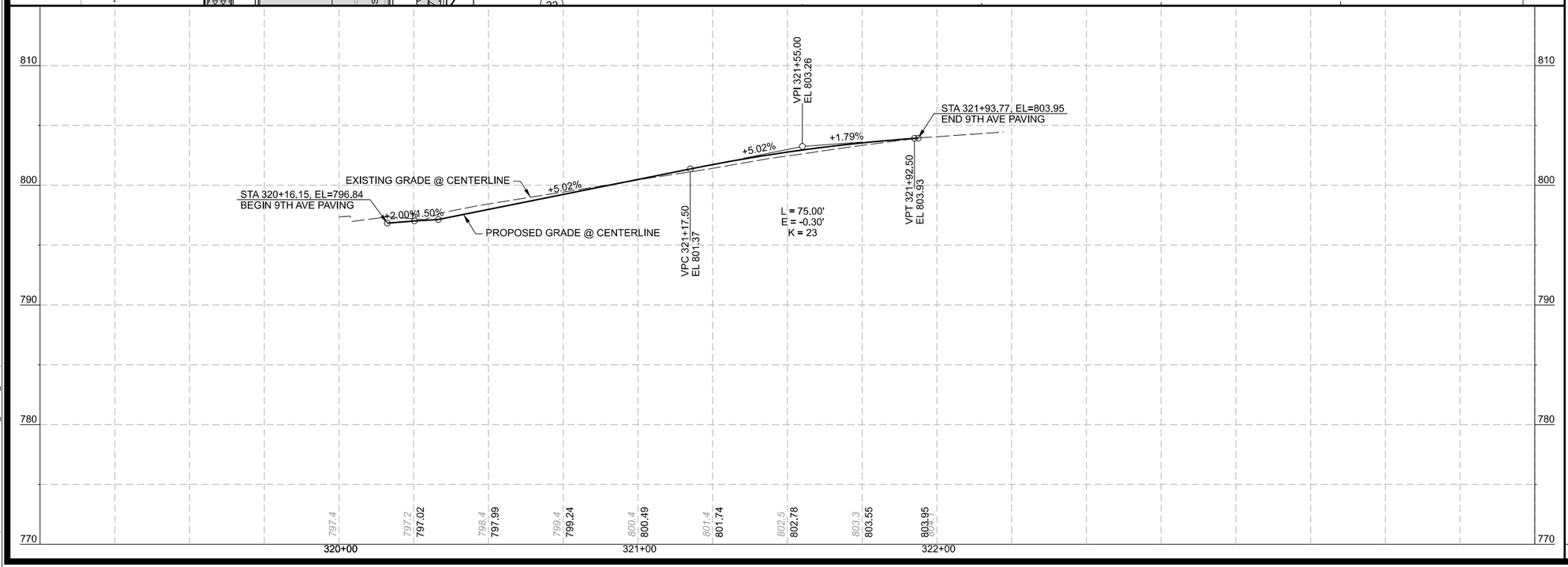
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Project No: 116.0663

Sheet E.4

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LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/13/2026 Pg:

Project No: 116.0663

Sheet E.5

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

9TH AVE PLAN AND PROFILE

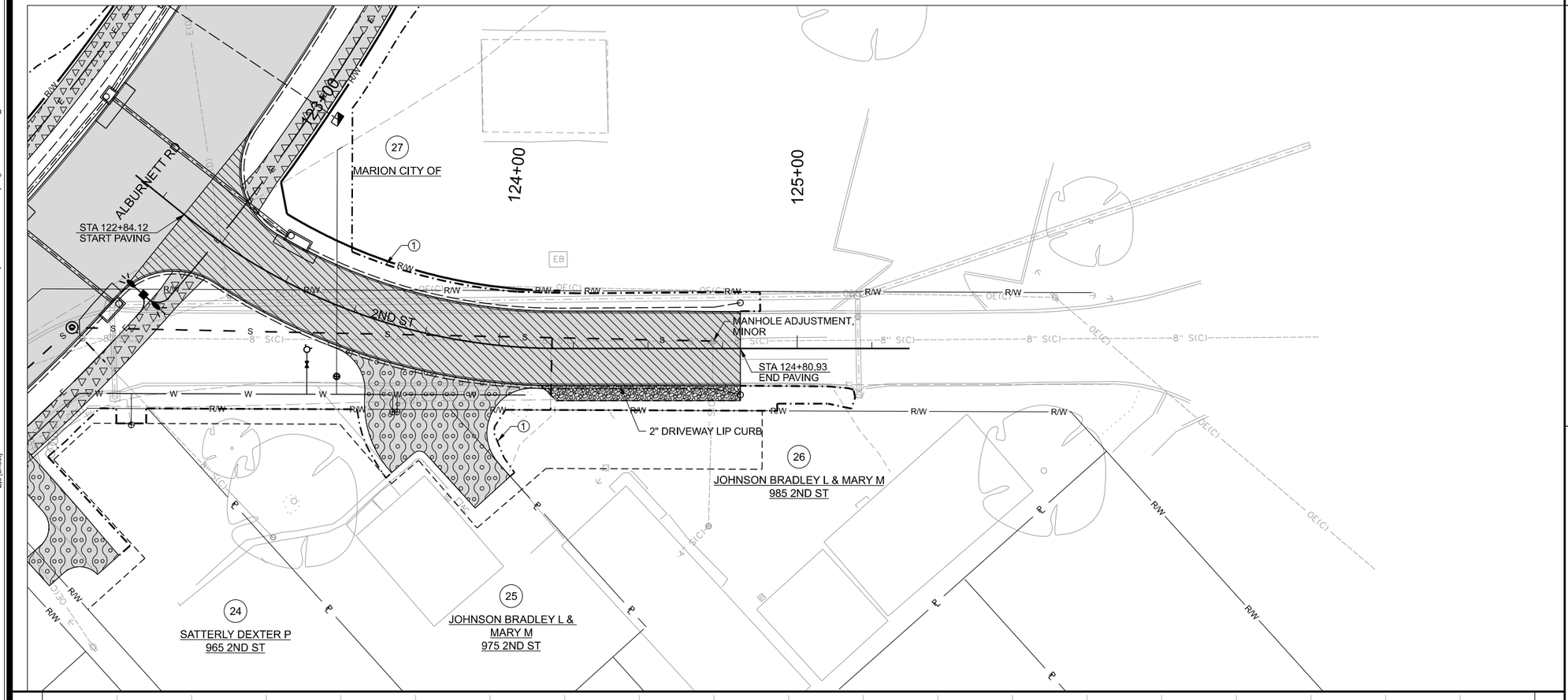
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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

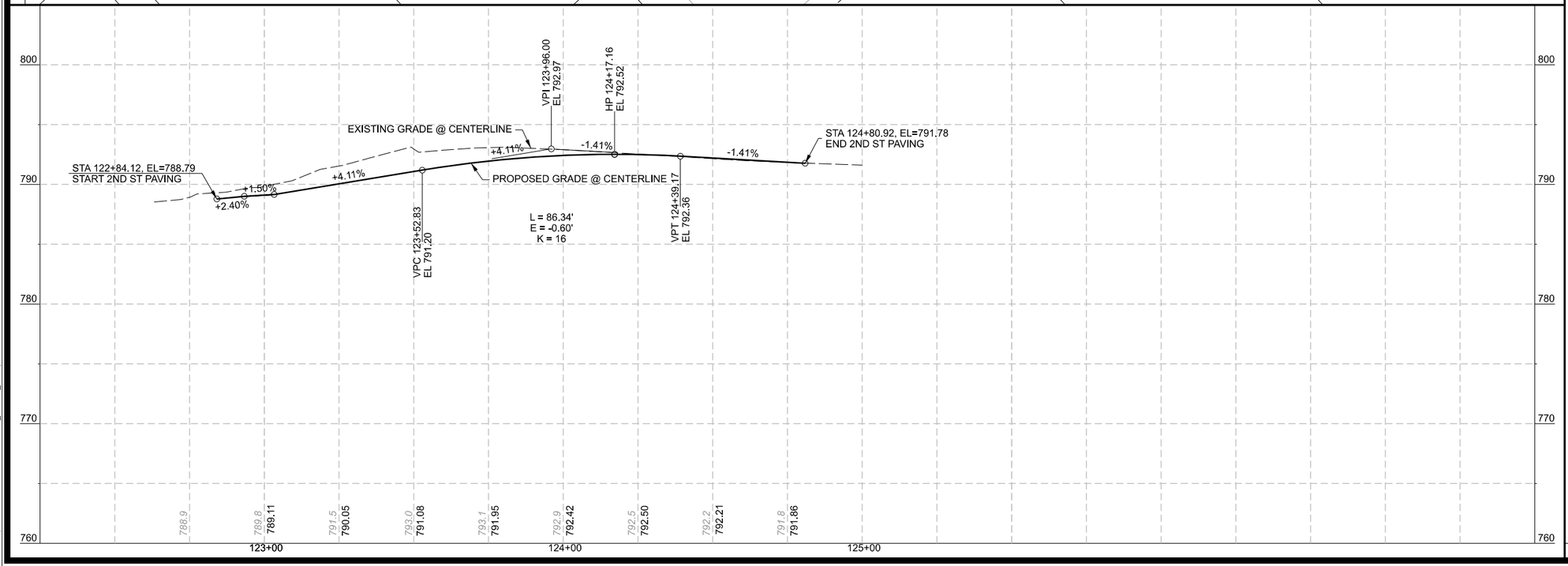
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet E.5

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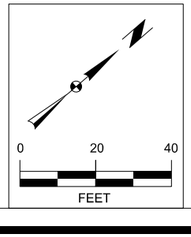


LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS
2. VALVE BOX ADJUSTMENT, MINOR



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/13/2026 | Pg:

Project No: 116.0663

Sheet E.6

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

2ND ST PLAN AND PROFILE

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

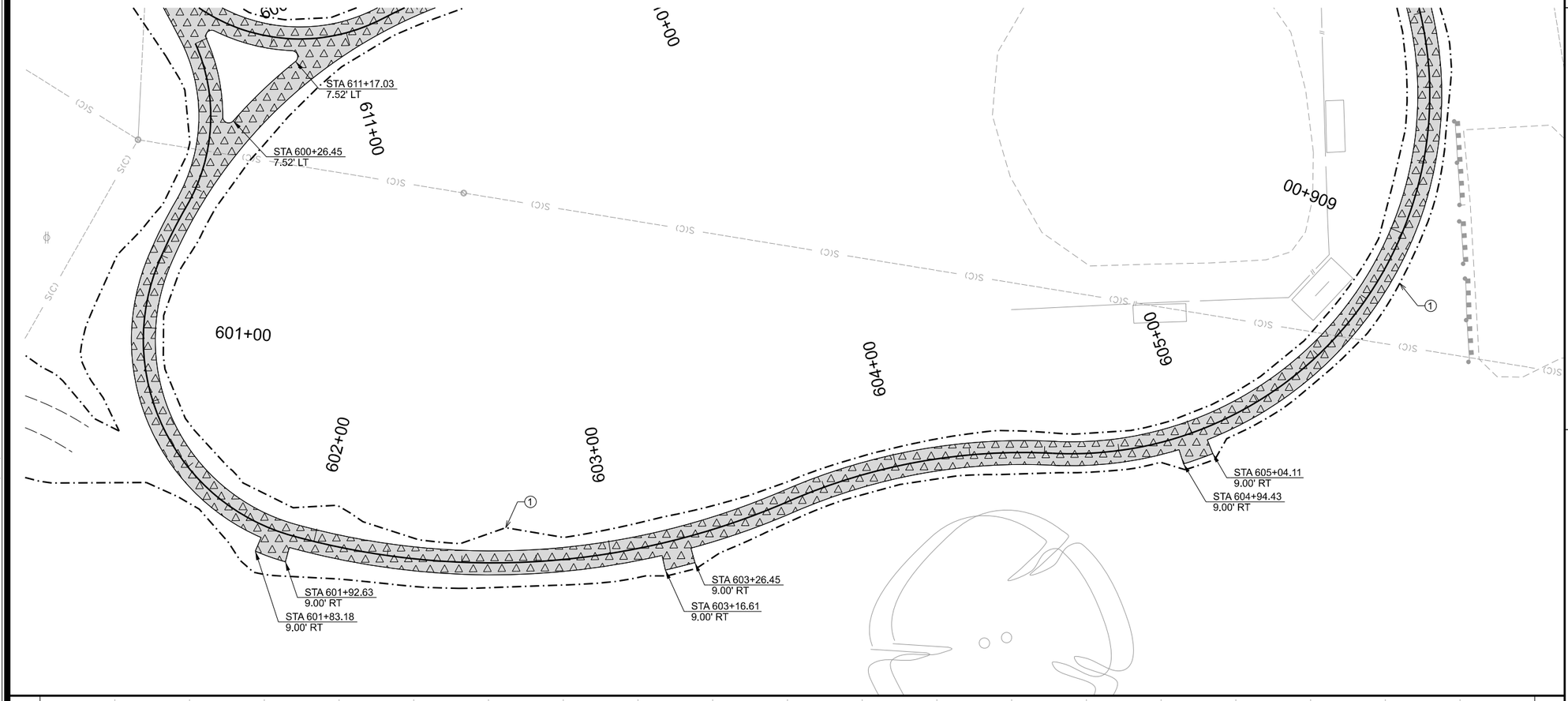
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Project No: 116.0663

Sheet E.6

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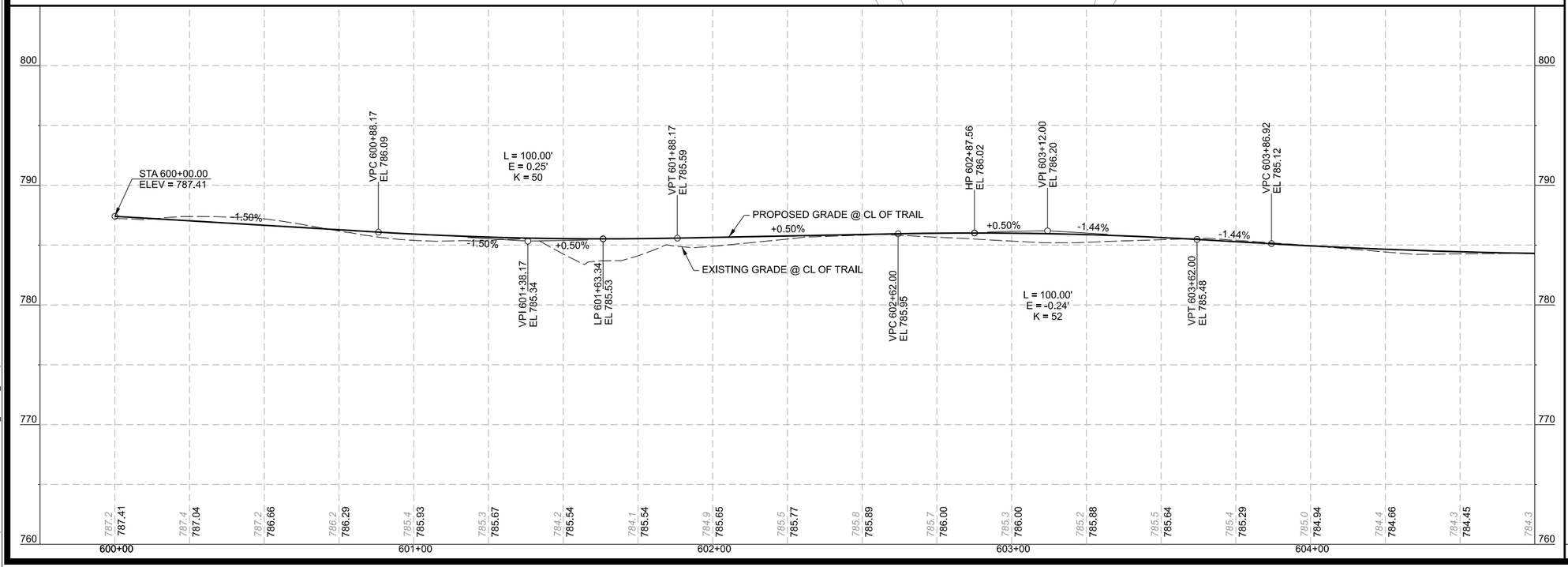


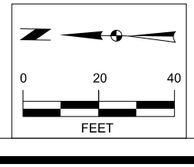
LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS





DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS	05/13/26	BY
MARK:	REVISION	DATE	
Engineer: MGB	Checked By: DMS	T-R-S:	
Technician: KMM	Date: 5/13/2026		
Project No: 116.0663		Sheet	E.7

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL PLAN AND PROFILE

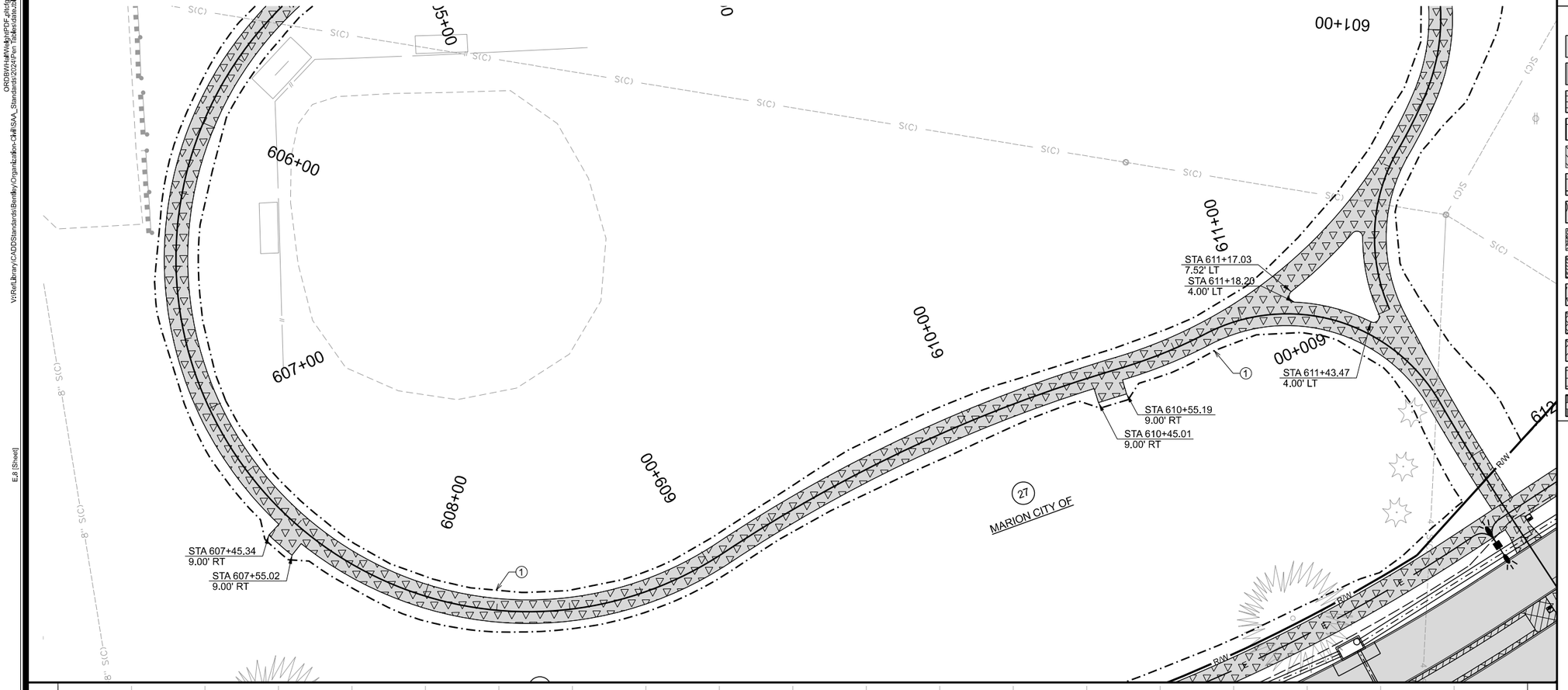
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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

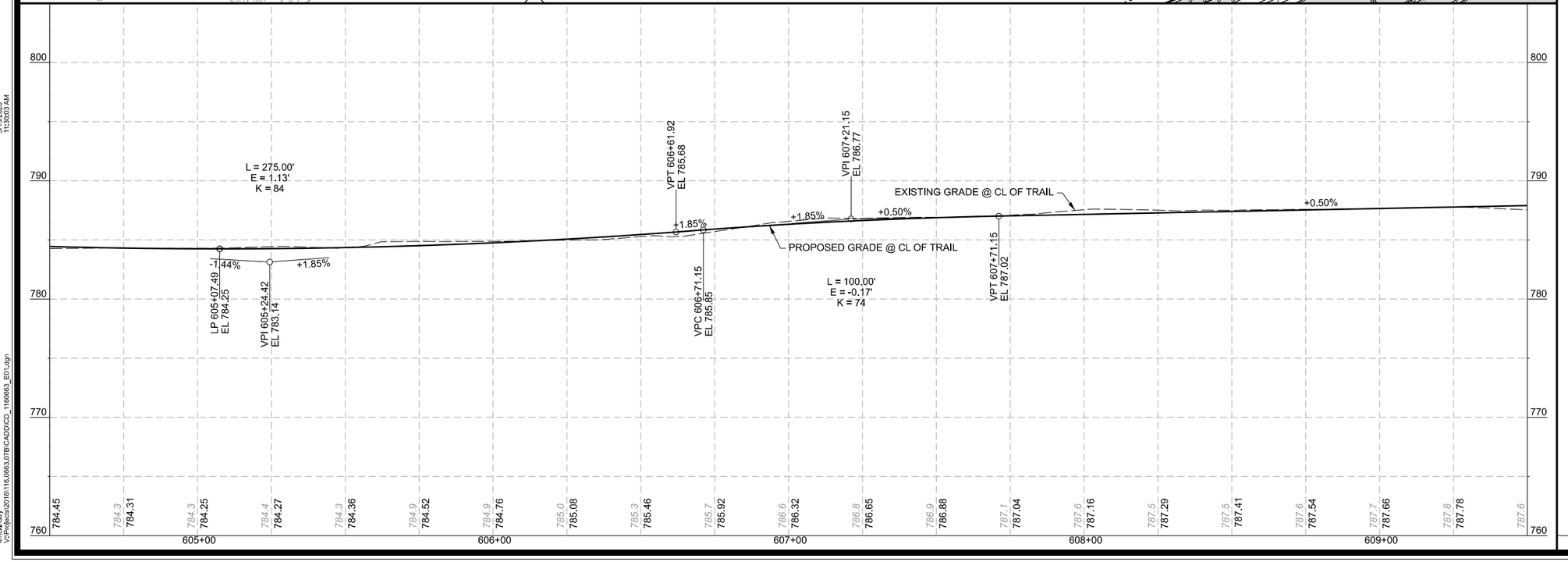
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Project No: 116.0663

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LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
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- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

(1) GRADING LIMITS

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663 Sheet E.8

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL PLAN AND PROFILE

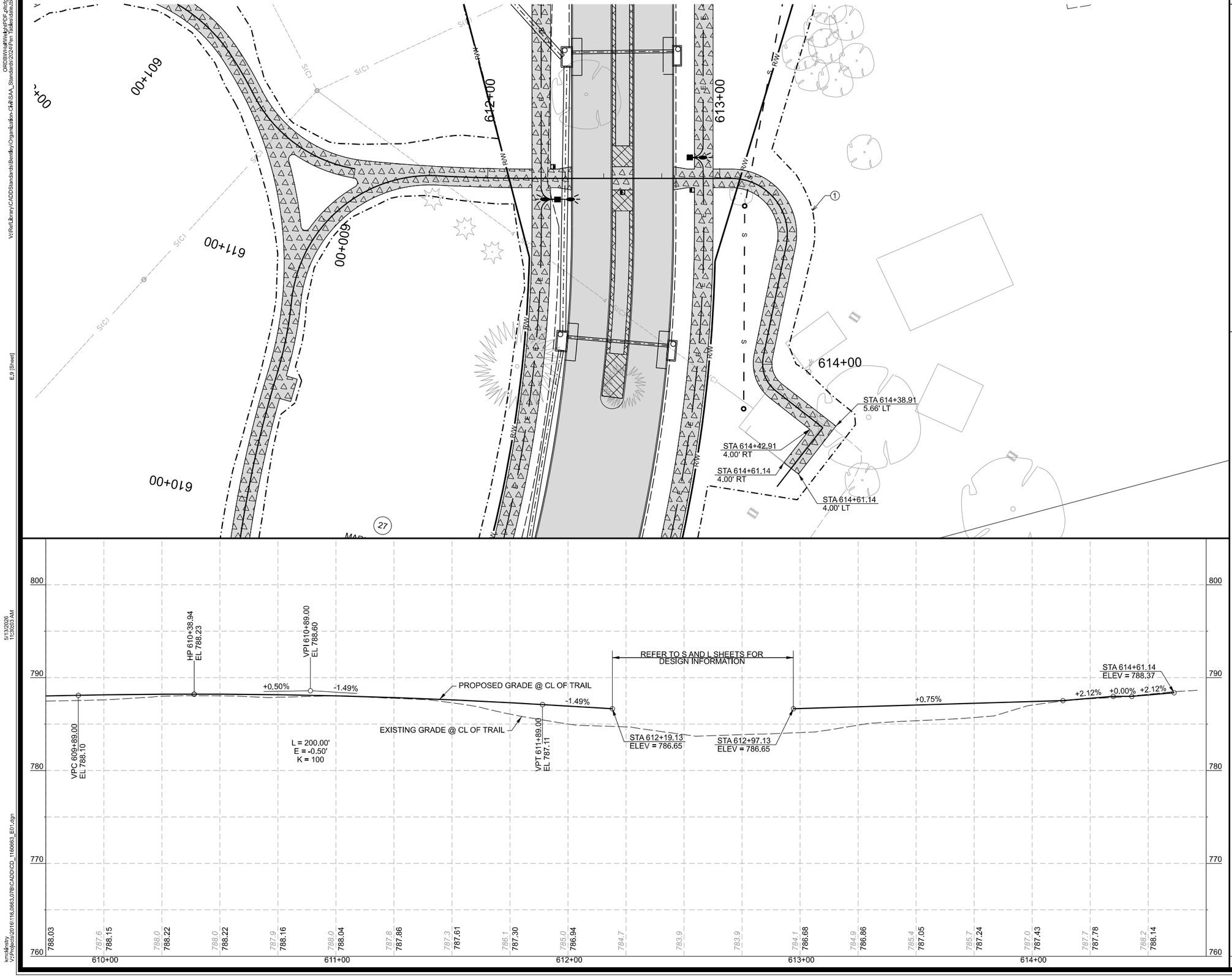
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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

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Project No: 116.0663
Sheet E.8

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LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663 Sheet E.9

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL PLAN AND PROFILE

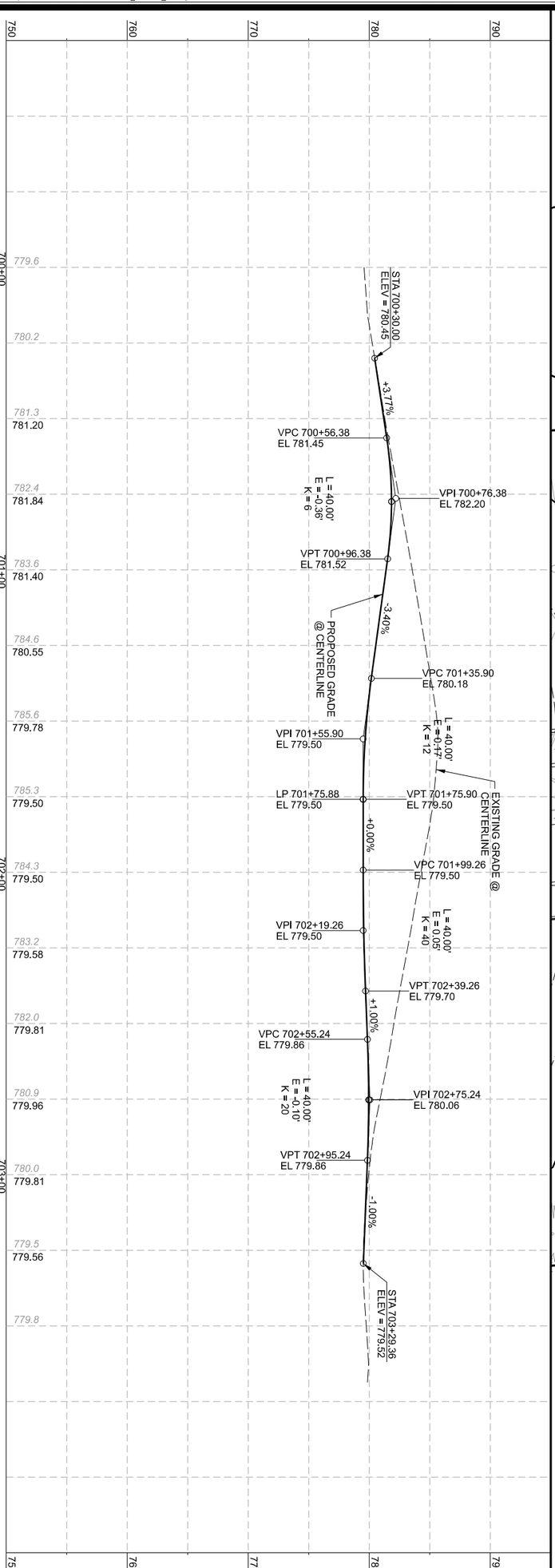
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CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

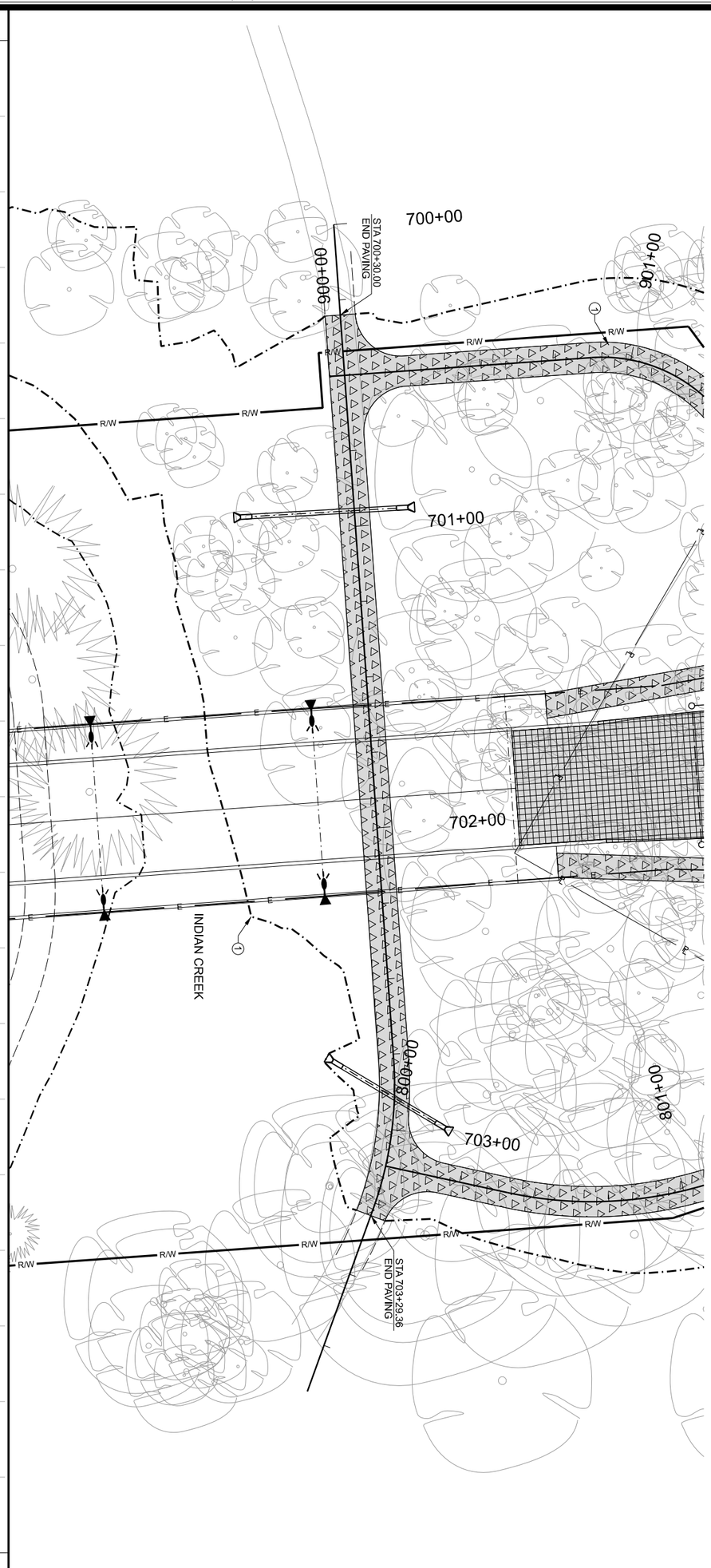
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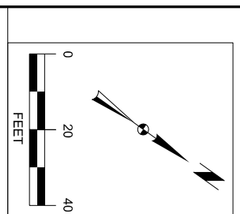
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NOTES

1. GRADING LIMITS

LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6" COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6" STANDARD CONCRETE

SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL PLAN AND PROFILE

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

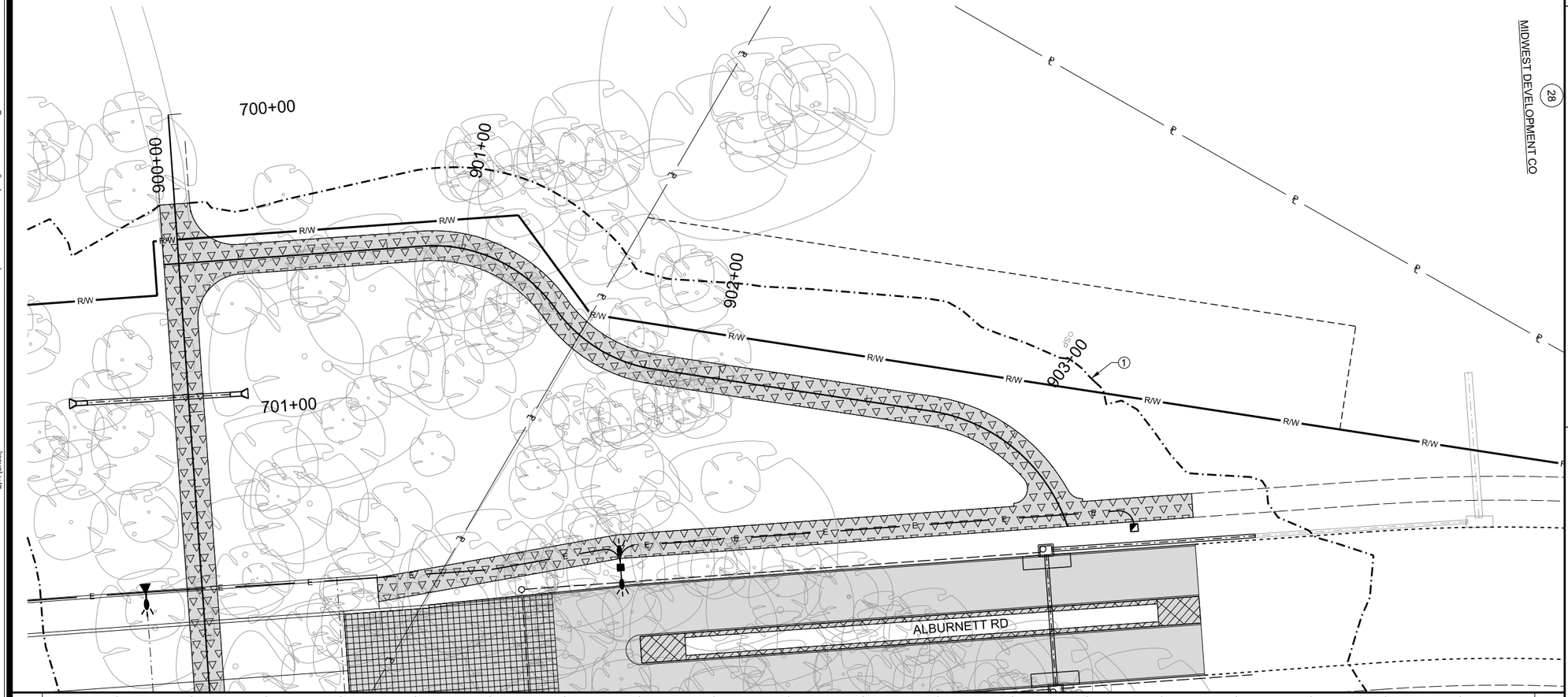
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS
Technician: KMM | Date: 5/13/2026 | T-R-S:

Project No: 116.0663 | Sheet E.10

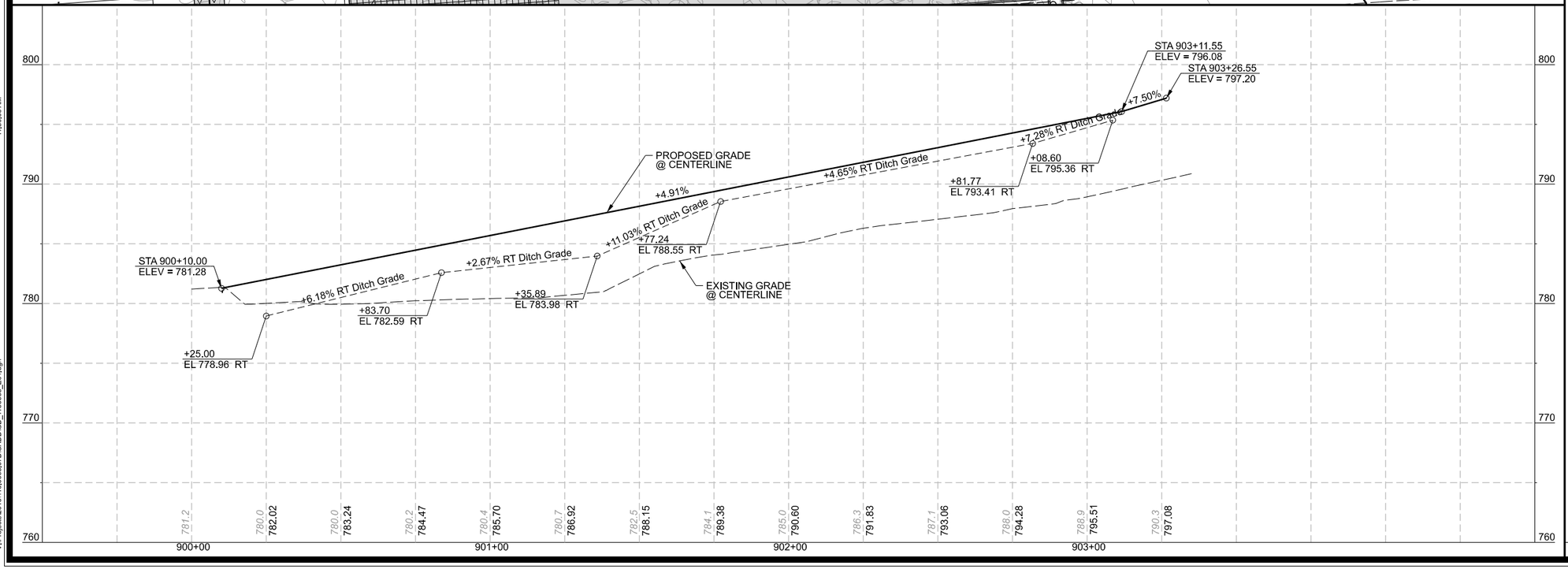


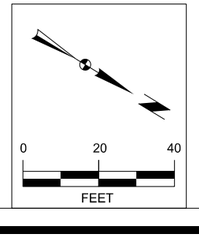
LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
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- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS





DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	05/13/26	
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/13/2026

Project No: 116.0663 | Sheet E.11

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL PLAN AND PROFILE

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES, INC.

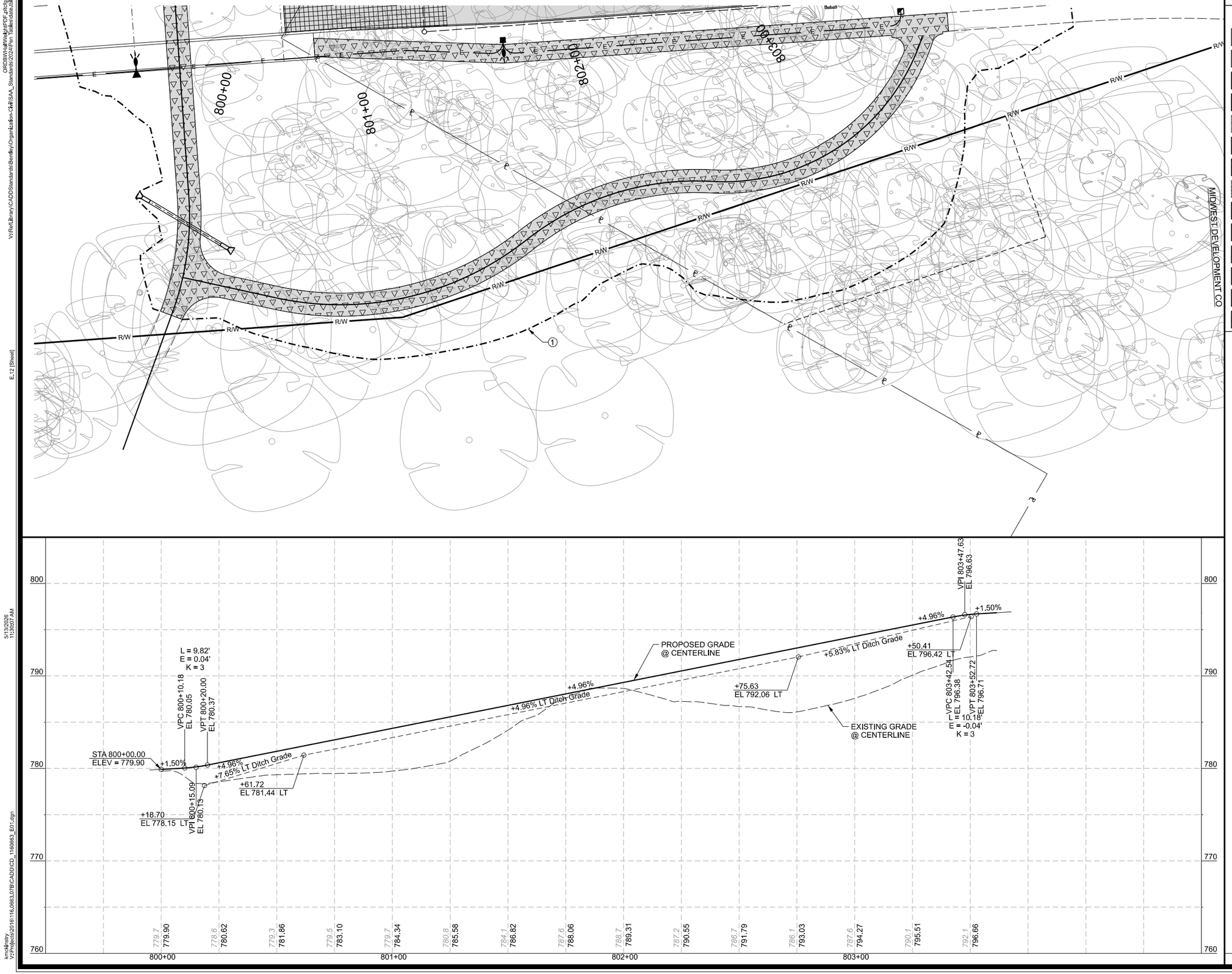
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet E.11

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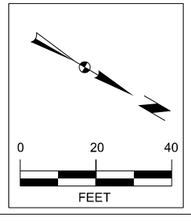


LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
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- STAMPED SIDEWALK, PCC, 6"
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NOTES

1. GRADING LIMITS



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/13/2026

Project No: 116.0663 | Sheet E.12

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

TRAIL PLAN AND PROFILE

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet E.12

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220 BOYSON RD

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BEGIN CONSTRUCTION

REMOVE AND REINSTALL FENCE, CHAIN LINK

BOYSON RD

37
VIERNES LYRA A & JOHNSON MARGA
780 ARCHER DR

36
GOO NAM HEE & PARK SOOJIN
778 ARCHER DR

35
DUGGAN PATRICK T
776 ARCHER DR

LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
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- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS

840 | 830 | 820 | 810 | 800

PROPOSED GRADE @ NORTH FORM GRADE
EXISTING GRADE @ NORTH FORM GRADE

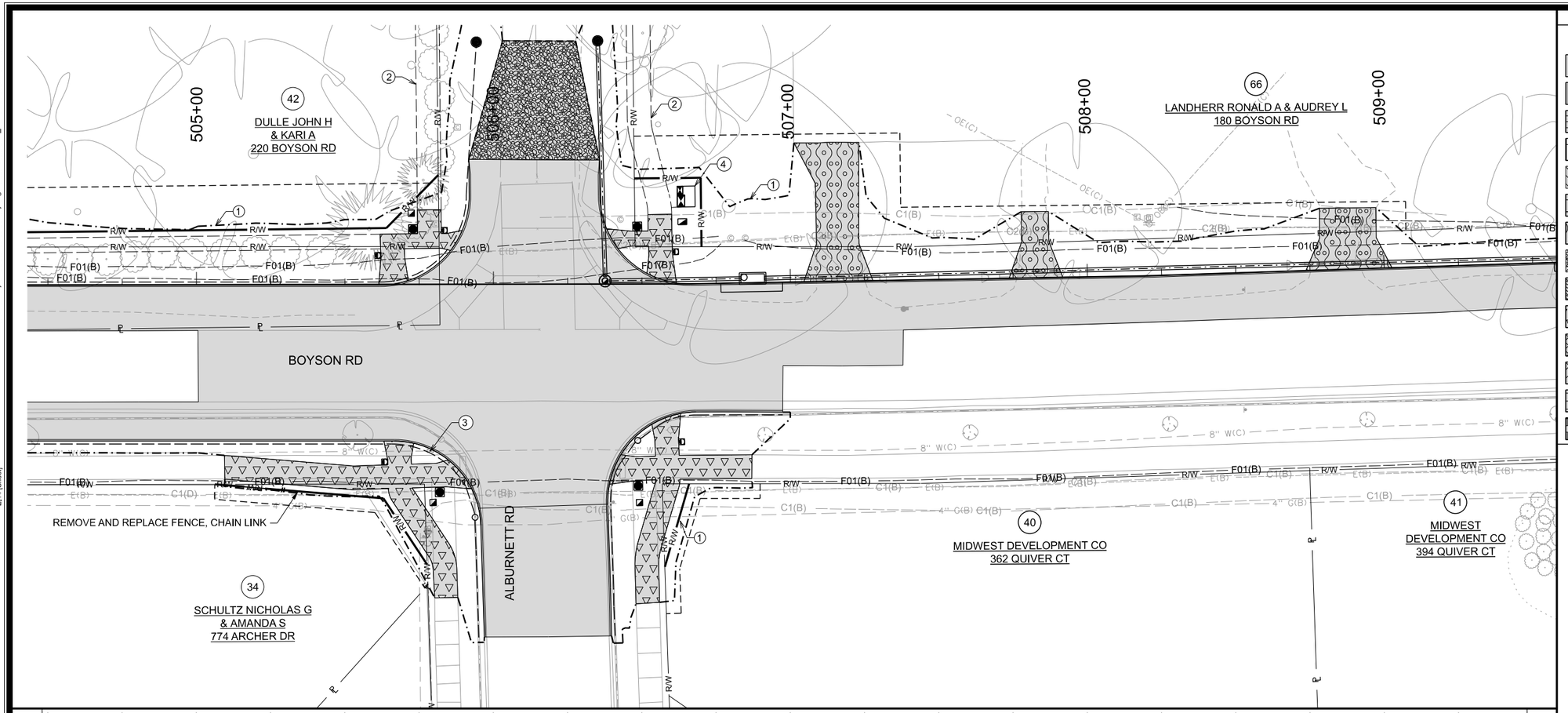
STA 500+00
BEGIN PAVING

BOYSON ROAD PROFILE TO BE CALCULATED IN THE FIELD TO MATCH EXISTING PAVEMENT EDGE WITH 2% CONSTANT CROSS SLOPE. REFER TO THE B SHEETS FOR TYPICAL SECTION INFORMATION.

500+00 | 501+00 | 502+00 | 503+00 | 504+00

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57					

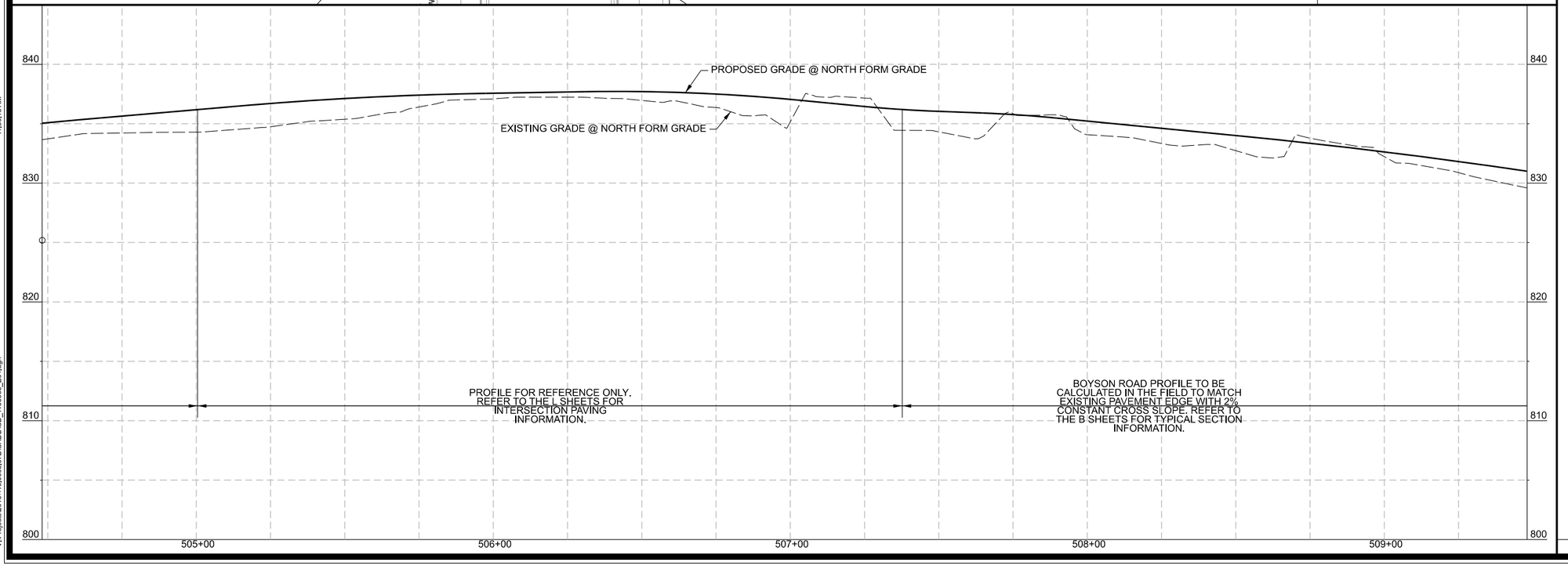


LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
- SIDEWALK, PCC, 4"
- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS
2. FUTURE SIDEWALK
3. VALVE BOX ADJUSTMENT
4. REFER TO THE N SHEETS FOR TRAFFIC SIGNAL EQUIPMENT



0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/13/2026 | Pg:

Project No: 116.0663

Sheet E.14

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BOYSON RD PLAN AND PROFILE

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

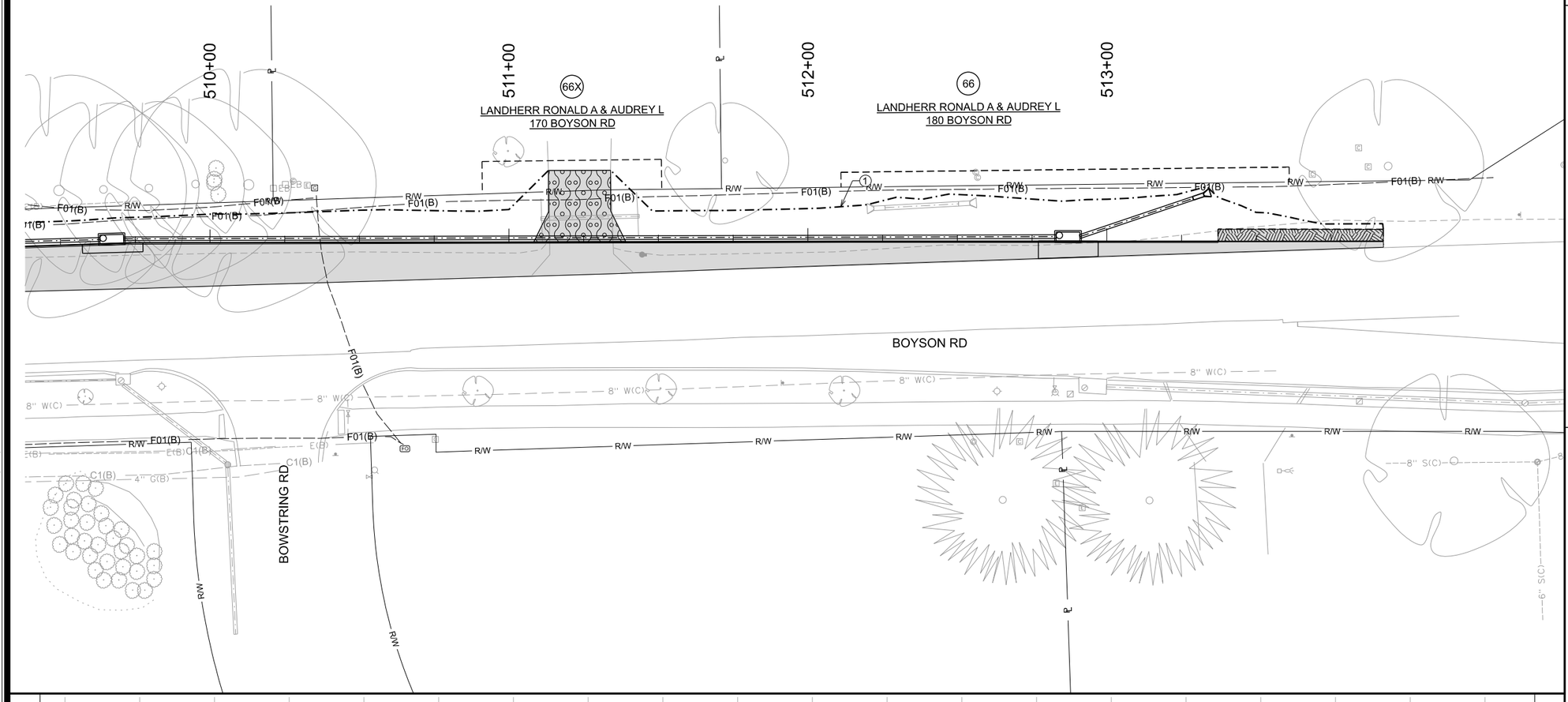
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet E.14

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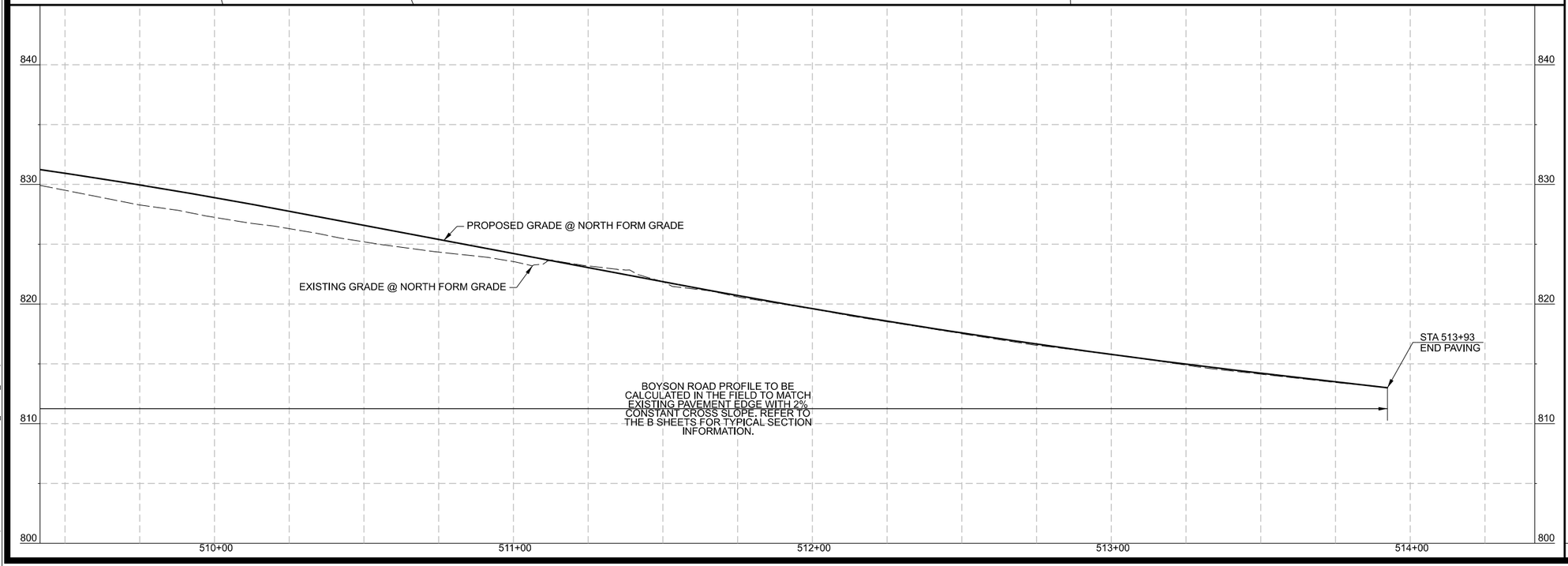


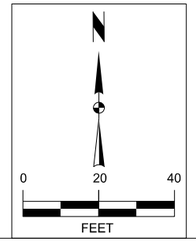
LEGEND

- PAVEMENT, PCC, 8"
- PAVEMENT, PCC, 9"
- BRIDGE APPROACH PAVEMENT, BR-203
- BRIDGE APPROACH PAVEMENT, BR-201 OR BR-203
- PAVEMENT, PCC, 7"
- DRIVEWAY, PCC, 7"
- DRIVEWAY, PCC, 6"
- SURFACING, DRIVEWAY, CLASS A, CRUSHED STONE
- GRANULAR SHOULDERS, TYPE A
- SIDEWALK, PCC, 6"
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- MEDIAN, PCC, 6", COLORED CONCRETE
- STAMPED SIDEWALK, PCC, 6"
- MEDIAN, PCC, 6", STANDARD CONCRETE

NOTES

1. GRADING LIMITS





DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Field Bk.:
Technician: KMM | Date: 5/13/2026 | Pg:

Project No: 116.0663

Sheet E.15

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BOYSON RD PLAN AND PROFILE

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SNYDER & ASSOCIATES

Project No: 116.0663

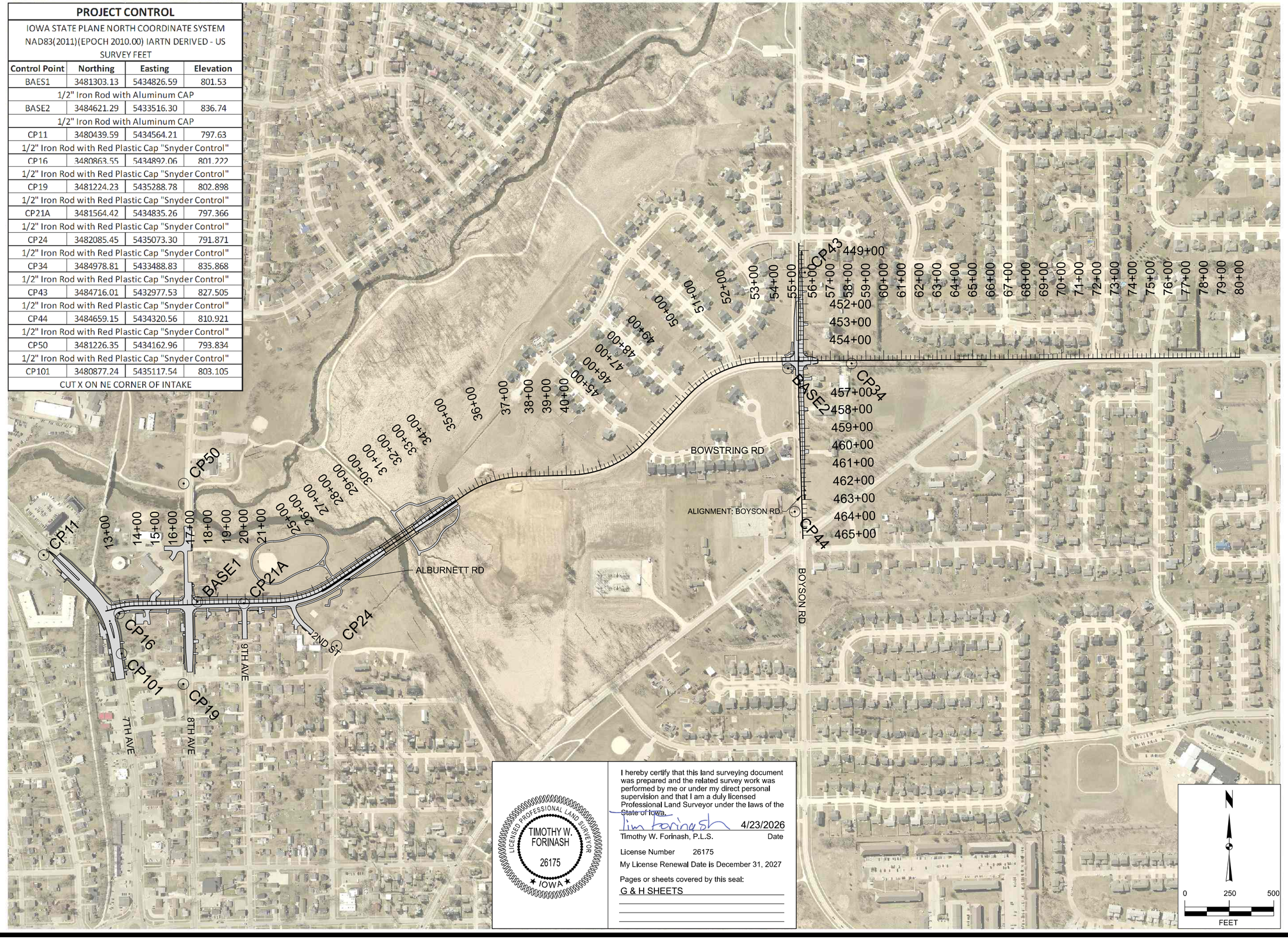
Sheet E.15

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PROJECT CONTROL

IOWA STATE PLANE NORTH COORDINATE SYSTEM NAD83(2011)(EPOCH 2010.00) IARTN DERIVED - US SURVEY FEET

Control Point	Northing	Easting	Elevation
BAES1	3481303.13	5434826.59	801.53
1/2" Iron Rod with Aluminum CAP			
BASE2	3484621.29	5433516.30	836.74
1/2" Iron Rod with Aluminum CAP			
CP11	3480439.59	5434564.21	797.63
1/2" Iron Rod with Red Plastic Cap "Snyder Control"			
CP16	3480863.55	5434892.06	801.222
1/2" Iron Rod with Red Plastic Cap "Snyder Control"			
CP19	3481224.23	5435288.78	802.898
1/2" Iron Rod with Red Plastic Cap "Snyder Control"			
CP21A	3481564.42	5434835.26	797.366
1/2" Iron Rod with Red Plastic Cap "Snyder Control"			
CP24	3482085.45	5435073.30	791.871
1/2" Iron Rod with Red Plastic Cap "Snyder Control"			
CP34	3484978.81	5433488.83	835.868
1/2" Iron Rod with Red Plastic Cap "Snyder Control"			
CP43	3484716.01	5432977.53	827.505
1/2" Iron Rod with Red Plastic Cap "Snyder Control"			
CP44	3484659.15	5434320.56	810.921
1/2" Iron Rod with Red Plastic Cap "Snyder Control"			
CP50	3481226.35	5434162.96	793.834
1/2" Iron Rod with Red Plastic Cap "Snyder Control"			
CP101	3480877.24	5435117.54	803.105
CUT X ON NE CORNER OF INTAKE			



I hereby certify that this land surveying document was prepared and the related survey work was performed by me or under my direct personal supervision and that I am a duly licensed Professional Land Surveyor under the laws of the State of Iowa.

Timothy W. Forinash, P.L.S. — 4/23/2026 (Date)

License Number 26175

My License Renewal Date is December 31, 2027

Pages or sheets covered by this seal:

G & H SHEETS

TIMOTHY W. FORINASH — LICENSED PROFESSIONAL LAND SURVEYOR — 26175 — IOWA

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 4/23/2026

Project No: 116.0663 | Sheet G.1

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

SURVEY CONTROL & REFERENCE INFORMATION

SNYDER & ASSOCIATES, INC.

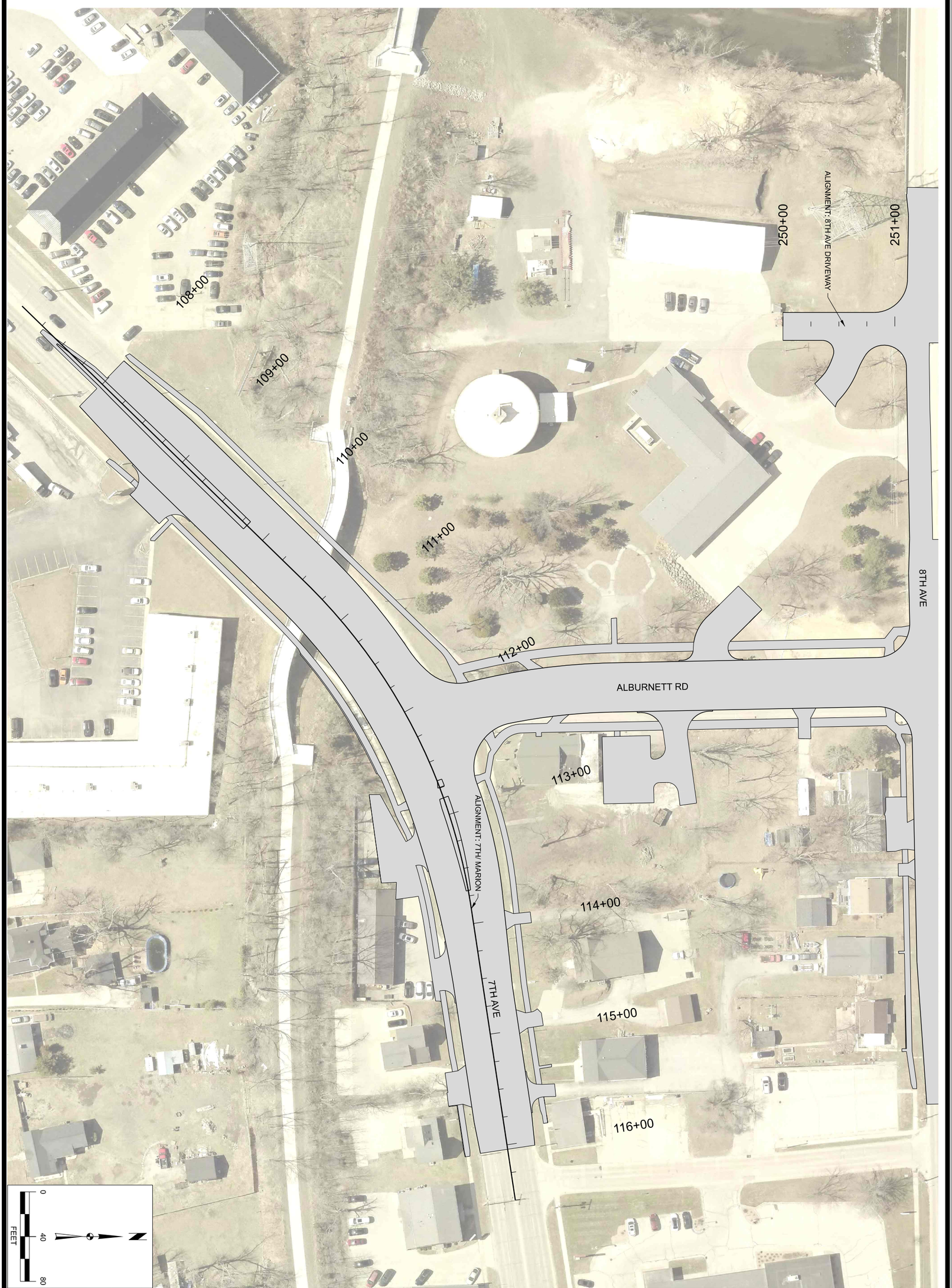
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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet G.1

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

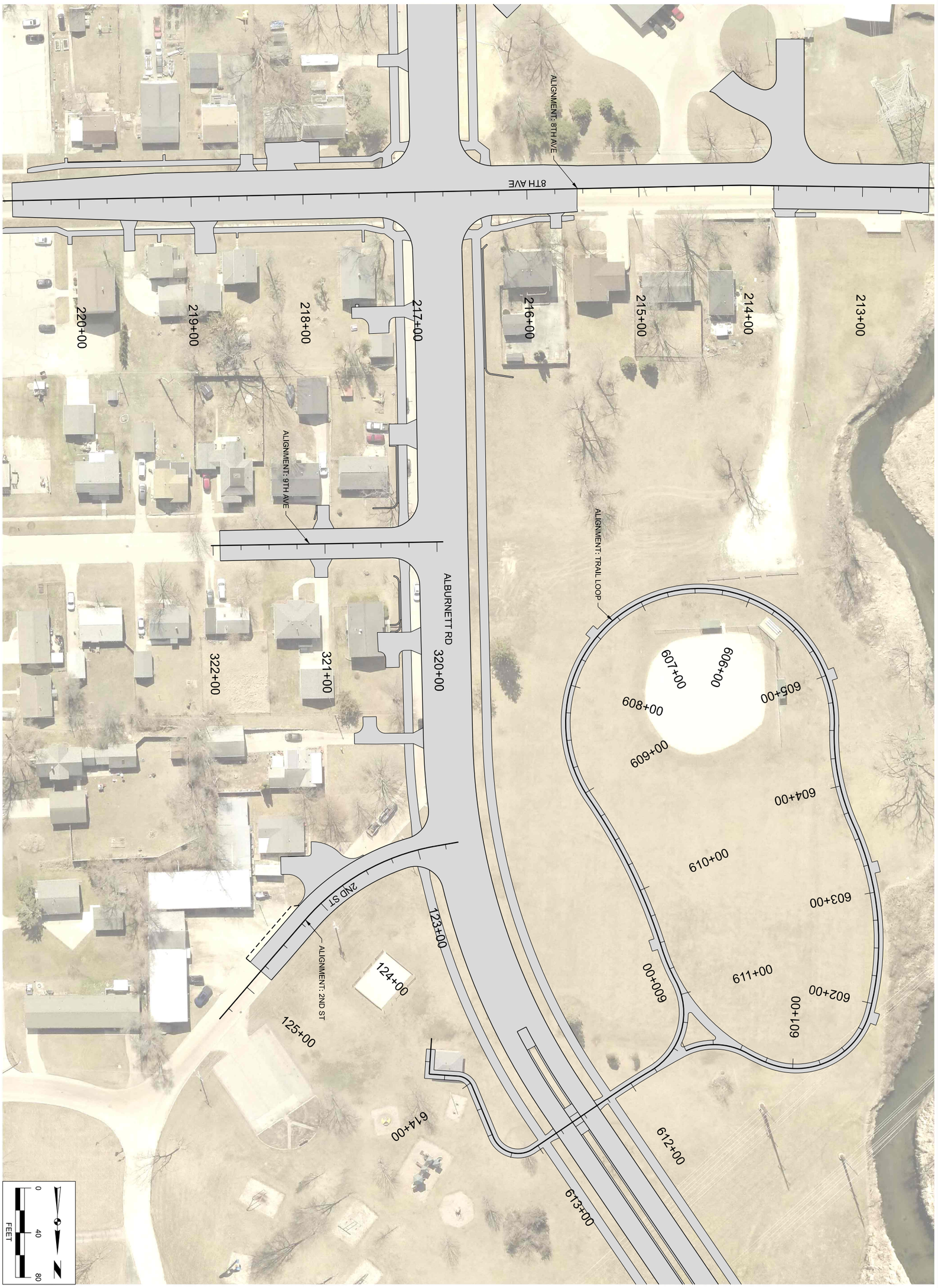
SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

	DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS		05/13/26	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/13/2026	T-R-S:		
Project No: 116.0663		Sheet G.2		

Sheet G.2
Project No: 116.0663



Sheet G.3 | Project No: 116.0663

SNYDER & ASSOCIATES

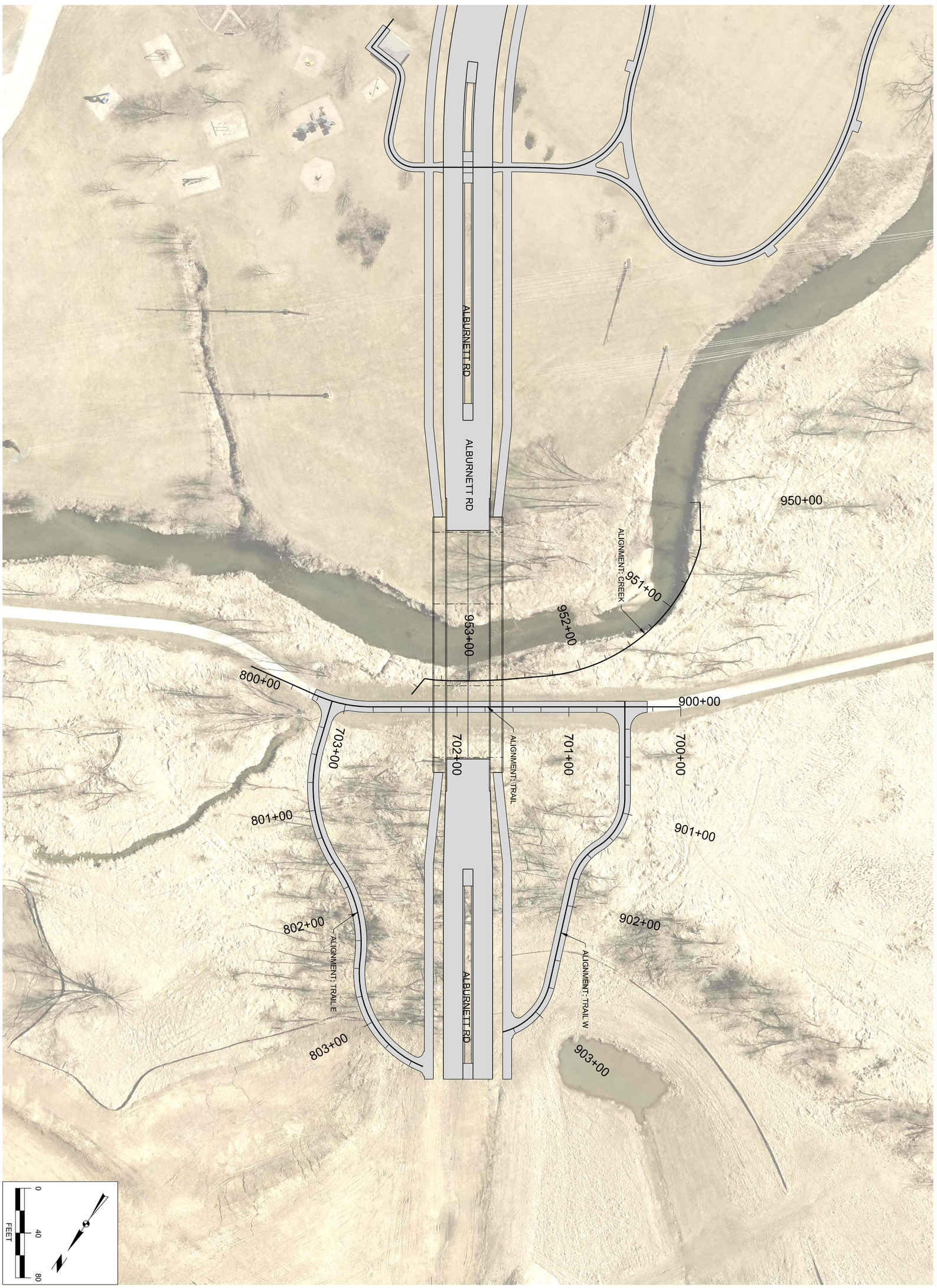
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet G.3		



ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

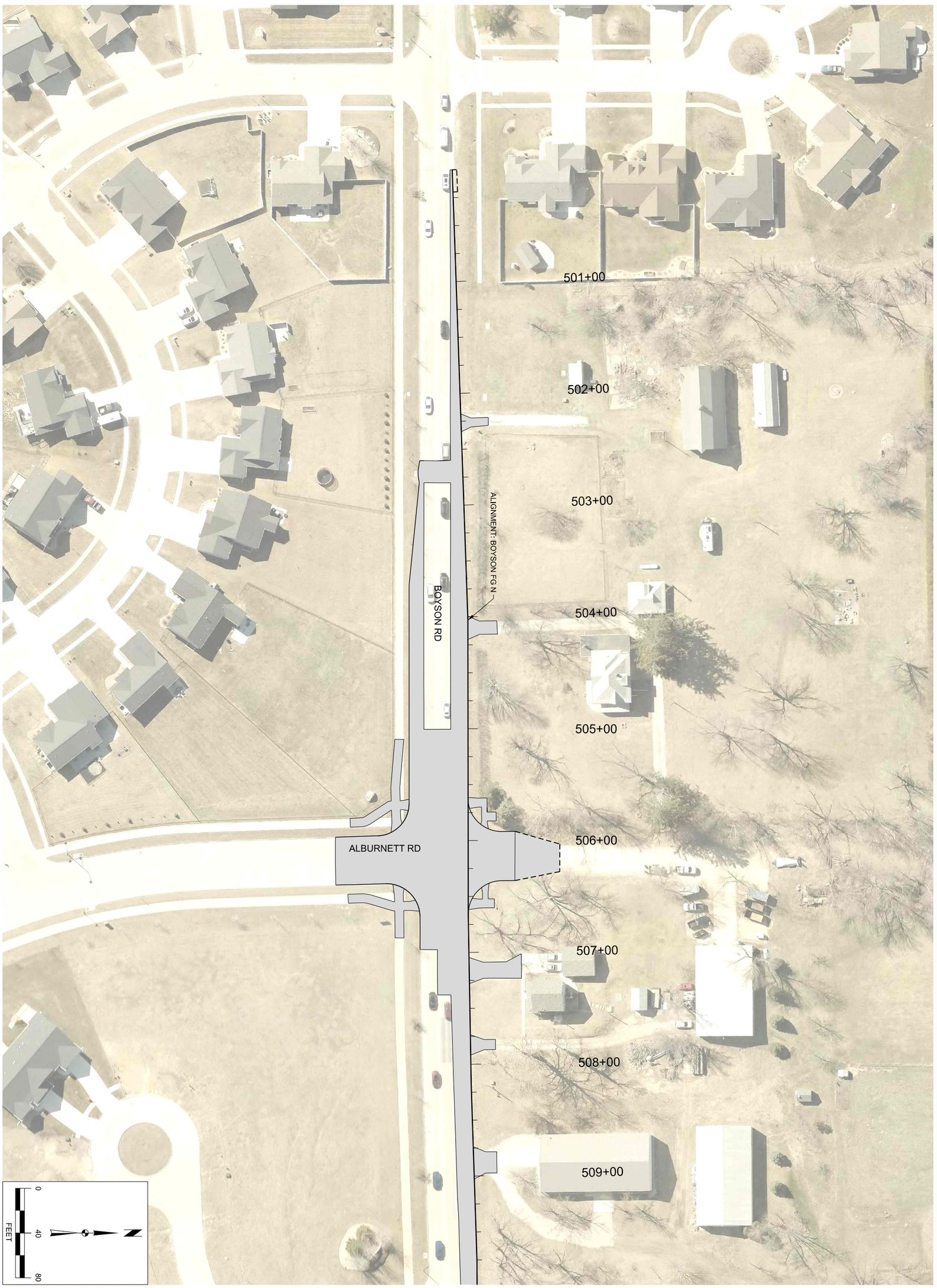
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Sheet G.4

Project No: 116.0663

	DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS		05/13/26	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/13/2026	T-R-S:		
Project No: 116.0663		Sheet G.4		



Sheet G.5 | Project No: 116.0663

SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION — **CITY OF MARION, IOWA**

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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	DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS		05/13/26	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/13/2026	T-R-S:		
Project No: 116.0663		Sheet G.5		



Sheet G.6

Project No: 116.0663

SNYDER & ASSOCIATES

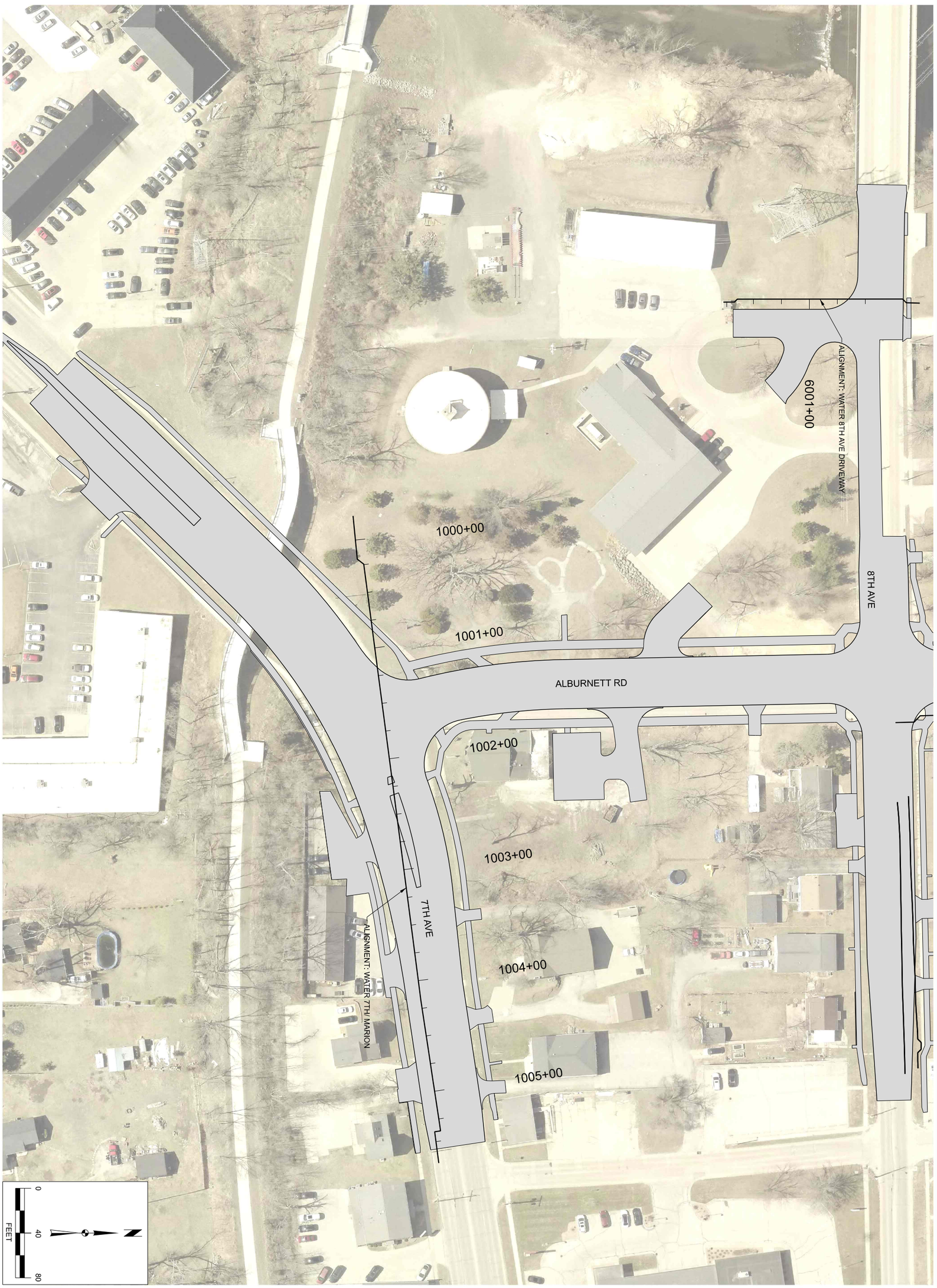
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
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	DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS		05/13/26	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/13/2026	T-R-S:		
Project No: 116.0663		Sheet G.6		



Sheet G.7

Project No: 116.0663

SNYDER & ASSOCIATES

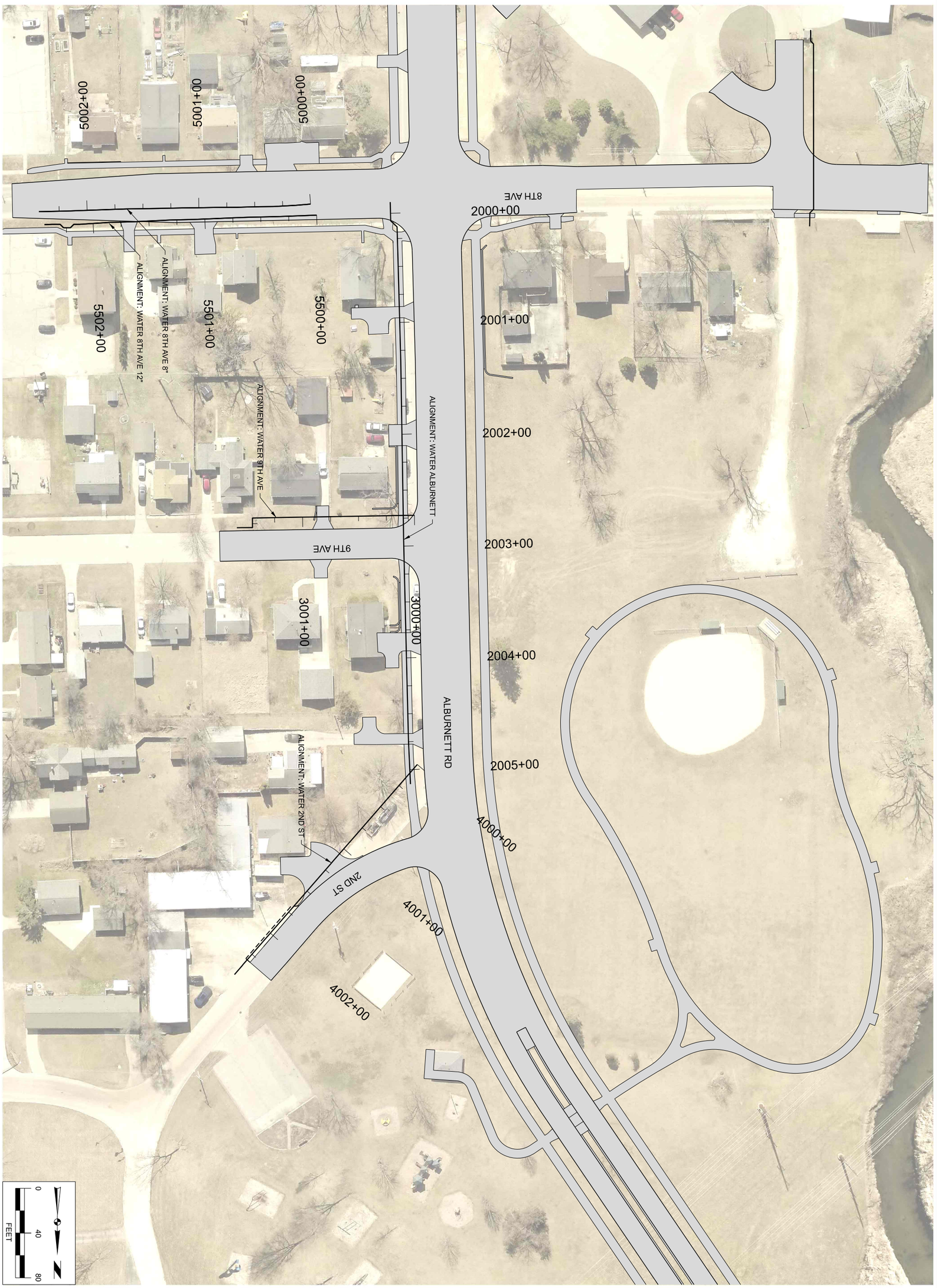
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet G.7		



Sheet G.8 | Project No: 116.0663

SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION — **CITY OF MARION, IOWA**

SNYDER & ASSOCIATES, INC.
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	DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS		05/13/26	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/13/2026	T-R-S:		
Project No: 116.0663		Sheet G.8		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: ALBURNETT_RD

		Station	Northing	Easting
Element: Linear				
START	(START)	12+11.35	3480786.72	5434879.09
PC	(PC)	12+69.43	3480843.08	5434865.08
	Tangential Direction:	N13°57'46.49"W		
	Tangential Length:	58.08		
Element: Circular				
PC	(GeomBL)	12+69.43	3480843.08	5434865.08
HPI	(HPI)	13+31.16	3480902.99	5434850.18
CC	(CC)		3480975.67	5435398.34
PT	(GeomBL1)	13+92.37	3480964.71	5434848.95
	Radius:	549.5		
	Delta:	12.82 Right		
	Degree of Curvature (Arc):	10.43		
	Length:	122.95		
	Tangent:	61.73		
	Chord:	122.69		
	Middle Ordinate:	3.43		
	External:	3.46		
	Back Tangent Direction:	N13°57'46.49"W		
	Back Radial Direction:	N76°02'13.51"E		
	Chord Direction:	N07°33'11.28"W		
	Ahead Radial Direction:	N88°51'23.93"E		
	Ahead Tangent Direction:	N01°08'36.07"W		
Element: Linear				
PT	(PT)	13+92.37	3480964.71	5434848.95
HPI	(HPI)	16+51.33	3481223.62	5434843.78
	Tangential Direction:	N01°08'36.07"W		
	Tangential Length:	258.96		
Element: Linear				
HPI	(GeomBL1)	16+51.33	3481223.62	5434843.78
HPI	(HPI)	18+31.54	3481403.76	5434838.86
	Tangential Direction:	N01°33'52.53"W		
	Tangential Length:	180.21		
Element: Linear				
HPI	(GeomBL2)	18+31.54	3481403.76	5434838.86
HPI	(HPI)	19+91.44	3481563.63	5434836.28
	Tangential Direction:	N00°55'31.70"W		
	Tangential Length:	159.89		
Element: Linear				
HPI	(GeomBL3)	19+91.44	3481563.63	5434836.28
PC	(PC)	21+70.91	3481743.05	5434831.96
	Tangential Direction:	N01°22'42.10"W		
	Tangential Length:	179.47		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: ALBURNETT_RD

		Station	Northing	Easting
Element: Circular				
PC	(GeomBL4)	21+70.91	3481743.05	5434831.96
HPI	(HPI)	23+47.28	3481919.38	5434827.72
CC	(CC)		3481728.62	5434232.14
PT	(GeomBL5)	25+13.99	3482065.36	5434728.74
	Radius:	600		
	Delta:	32.76 Left		
	Degree of Curvature (Arc):	9.55		
	Length:	343.08		
	Tangent:	176.37		
	Chord:	338.43		
	Middle Ordinate:	24.36		
	External:	25.39		
	Back Tangent Direction:	N01°22'42.10"W		
	Back Radial Direction:	N88°37'17.90"E		
	Chord Direction:	N17°45'34.02"W		
	Ahead Radial Direction:	N55°51'34.07"E		
	Ahead Tangent Direction:	N34°08'25.93"W		
Element: Linear				
PT	(PT)	25+13.99	3482065.36	5434728.74
PC	(PC)	34+08.25	3482805.49	5434226.86
	Tangential Direction:	N34°08'25.93"W		
	Tangential Length:	894.25		
Element: Circular				
PC	(GeomBL5)	34+08.25	3482805.49	5434226.86
HPI	(HPI)	35+83.10	3482950.22	5434128.72
CC	(CC)		3483142.23	5434723.46
PT	(GeomBL6)	37+48.54	3483125.01	5434123.71
	Radius:	600		
	Delta:	32.5 Right		
	Degree of Curvature (Arc):	9.55		
	Length:	340.29		
	Tangent:	174.86		
	Chord:	335.75		
	Middle Ordinate:	23.96		
	External:	24.96		
	Back Tangent Direction:	N34°08'25.93"W		
	Back Radial Direction:	N55°51'34.07"E		
	Chord Direction:	N17°53'33.79"W		
	Ahead Radial Direction:	N88°21'18.35"E		
	Ahead Tangent Direction:	N01°38'41.65"W		
Element: Linear				
PT	(PT)	37+48.54	3483125.01	5434123.71
PC	(PC)	40+22.95	3483399.30	5434115.83
	Tangential Direction:	N01°38'41.65"W		
	Tangential Length:	274.41		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: ALBURNETT_RD

		Station	Northing	Easting
Element: Circular				
PC	(GeomBL6)	40+22.95	3483399.30	5434115.83
HPI	(HPI)	42+72.58	3483648.83	5434108.66
CC	(CC)		3483382.08	5433516.08
PT	(GeomBL7)	44+96.07	3483819.64	5433926.61
	Radius:	600		
	Delta:	45.18 Left		
	Degree of Curvature (Arc):	9.55		
	Length:	473.13		
	Tangent:	249.63		
	Chord:	460.96		
	Middle Ordinate:	46.03		
	External:	49.86		
	Back Tangent Direction:	N01°38'41.65"W		
	Back Radial Direction:	N88°21'18.35"E		
	Chord Direction:	N24°14'06.17"W		
	Ahead Radial Direction:	N43°10'29.31"E		
	Ahead Tangent Direction:	N46°49'30.69"W		
Element: Linear				
PT	(PT)	44+96.07	3483819.64	5433926.61
PC	(PC)	48+48.86	3484061.03	5433669.33
	Tangential Direction:	N46°49'30.69"W		
	Tangential Length:	352.79		
Element: Circular				
PC	(GeomBL7)	48+48.86	3484061.03	5433669.33
HPI	(HPI)	50+98.43	3484231.78	5433487.33
CC	(CC)		3484498.59	5434079.87
PT	(GeomBL8)	53+21.87	3484481.25	5433480.12
	Radius:	600		
	Delta:	45.17 Right		
	Degree of Curvature (Arc):	9.55		
	Length:	473.01		
	Tangent:	249.57		
	Chord:	460.85		
	Middle Ordinate:	46.01		
	External:	49.83		
	Back Tangent Direction:	N46°49'30.69"W		
	Back Radial Direction:	N43°10'29.31"E		
	Chord Direction:	N24°14'26.62"W		
	Ahead Radial Direction:	N88°20'37.44"E		
	Ahead Tangent Direction:	N01°39'22.56"W		
Element: Linear				
PT	(PT)	53+21.87	3484481.25	5433480.12
HPI	(HPI)	55+69.34	3484728.61	5433472.97
	Tangential Direction:	N01°39'22.63"W		
	Tangential Length:	247.47		
Element: Linear				
HPI	(GeomBL8)	55+69.34	3484728.61	5433472.97
HPI	(HPI)	69+07.43	3486066.67	5433463.84
	Tangential Direction:	N00°23'26.40"W		
	Tangential Length:	1338.09		
Element: Linear				
HPI	(GeomBL9)	69+07.43	3486066.67	5433463.84
END	(END)	80+02.53	3487161.73	5433454.11
	Tangential Direction:	N00°30'33.18"W		
	Tangential Length:	1095.1		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	FINAL PLANS	
	REVISION	
	05/13/26	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/13/2026

Project No: 116.0663 | Sheet G.9

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet G.9

ORD/BWM/MW/HP/DF.pltcfg
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Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

File Name: V:\Projects\2016\116.0663.07B\CADD\CD_1160663_G01.dgn

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: 7TH/MARION

			Station	Northing	Easting
Element: Linear					
START		(START)	107+00.00	3480437.15	5434508.15
PC		(PC)	110+52.56	3480689.59	5434754.25
		Tangential Direction:	N44.27°E		
		Tangential Length:	352.56		
Element: Circular					
PC		(GeomBL)	110+52.56	3480689.59	5434754.25
HPI		(HPI)	111+75.61	3480777.70	5434840.15
CC		(CC)		3480333.58	5435119.43
PCC		(PCC)	112+94.05	3480816.95	5434956.78
		Radius:	510		
		Delta:	27.13 Right		
		Degree of Curvature (Arc):	11.23		
		Length:	241.49		
		Tangent:	123.05		
		Chord:	239.24		
		Middle Ordinate:	14.23		
		External:	14.64		
		Back Tangent Direction:	N44.27°E		
		Back Radial Direction:	S45.73°E		
		Chord Direction:	N57.84°E		
		Ahead Radial Direction:	S18.60°E		
		Ahead Tangent Direction:	N71.40°E		
Element: Circular					
PCC		(GeomBL2)	112+94.05	3480816.95	5434956.78
HPI		(HPI)	113+40.51	3480831.77	5435000.81
CC		(CC)		3480314.63	5435125.81
PT		(GeomBL1)	113+86.73	3480838.70	5435046.76
		Radius:	530		
		Delta:	10.02 Right		
		Degree of Curvature (Arc):	10.81		
		Length:	92.69		
		Tangent:	46.46		
		Chord:	92.57		
		Middle Ordinate:	2.02		
		External:	2.03		
		Back Tangent Direction:	N71.40°E		
		Back Radial Direction:	S18.60°E		
		Chord Direction:	N76.41°E		
		Ahead Radial Direction:	S8.58°E		
		Ahead Tangent Direction:	N81.42°E		
Element: Linear					
PT		(PT)	113+86.73	3480838.70	5435046.76
END		(END)	116+50.00	3480877.97	5435307.08
		Tangential Direction:	N81.42°E		
		Tangential Length:	263.27		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: 8TH_AVE

			Station	Northing	Easting
Element: Linear					
RT		(START)	211+00.00	3481252.43	5434261.73
HPI		(HPI)	214+09.22	3481247.79	5434570.91
		Tangential Direction:	S89°08'25.49"E		
		Tangential Length:	309.22		
Element: Linear					
HPI		(HPI)	214+09.22	3481247.79	5434570.91
HPI		(HPI)	217+00.00	3481254.00	5434861.63
		Tangential Direction:	N88°46'29.60"E		
		Tangential Length:	290.78		
Element: Linear					
HPI		(HPI)	217+00.00	3481254.00	5434861.63
ND		(END)	221+50.00	3481263.63	5435311.52
		Tangential Direction:	N88°46'29.60"E		
		Tangential Length:	450		

Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: 8TH_AVE_DRIVEWAY

			Station	Northing	Easting
Element: Linear					
START		(START)	6000+00.00	3481283.96	5434508.30
HPI		(HPI)	6000+12.00	3481271.96	5434508.00
		Tangential Direction:	S1.46°W		
		Tangential Length:	12		
Element: Linear					
HPI		(HPI)	6000+12.00	3481271.96	5434508.00
HPI		(HPI)	6000+16.71	3481268.62	5434504.67
		Tangential Direction:	S44.96°W		
		Tangential Length:	4.71		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: 9TH_AVE

			Station	Northing	Easting
Element: Linear					
TART		(START)	319+94.29	3481566.48	5434836.21
HPI		(HPI)	320+25.23	3481567.00	5434867.14
		Tangential Direction:	N89°02'38.10"E		
		Tangential Length:	30.94		
Element: Linear					
HPI		(GeomBL)	320+25.23	3481567.00	5434867.14
END		(END)	322+01.93	3481569.95	5435043.82
		Tangential Direction:	N89°02'38.10"E		
		Tangential Length:	176.7		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: 2ND_ST

			Station	Northing	Easting
Element: Linear					
START		(START)	122+63.18	3481834.76	5434822.67
PC		(PC)	122+85.50	3481838.71	5434844.64
		Tangential Direction:	N79°48'37.69"E		
		Tangential Length:	22.32		
Element: Circular					
PC		(GeomBL)	122+85.50	3481838.71	5434844.64
HPI		(HPI)	123+55.59	3481851.11	5434913.63
CC		(CC)		3482033.59	5434809.62
PT		(GeomBL1)	124+20.23	3481904.15	5434959.45
		Radius:	198		
		Delta:	38.99 Left		
		Degree of Curvature (Arc):	28.94		
		Length:	134.73		
		Tangent:	70.09		
		Chord:	132.14		
		Middle Ordinate:	11.35		
		External:	12.04		
		Back Tangent Direction:	N79°48'37.69"E		
		Back Radial Direction:	S10°11'22.31"E		
		Chord Direction:	N60°19'01.73"E		
		Ahead Radial Direction:	S49°10'34.22"E		
		Ahead Tangent Direction:	N40°49'25.78"E		
Element: Linear					
PT		(PT)	124+20.23	3481904.15	5434959.45
HPI		(HPI)	124+60.64	3481934.73	5434985.86
		Tangential Direction:	N40°49'25.78"E		
		Tangential Length:	40.41		
Element: Linear					
HPI		(GeomBL1)	124+60.64	3481934.73	5434985.86
END		(END)	125+37.58	3481992.95	5435036.16
		Tangential Direction:	N40°49'25.78"E		
		Tangential Length:	76.94		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: BOYSON_RD

			Station	Northing	Easting
Element: Linear					
START		(START)	448+57.87	3484682.06	5432811.84
HPI		(HPI)	455+48.40	3484679.61	5433502.36
		Tangential Direction:	S89°47'49.68"E		
		Tangential Length:	690.53		
Element: Linear					
HPI		(GeomBL)	455+48.40	3484679.61	5433502.36
HPI		(HPI)	457+24.63	3484682.06	5433678.57
		Tangential Direction:	N89°12'15.37"E		
		Tangential Length:	176.23		
Element: Linear					
HPI		(GeomBL1)	457+24.63	3484682.06	5433678.57
END		(END)	465+21.07	3484705.34	5434474.68
		Tangential Direction:	N88°19'29.53"E		
		Tangential Length:	796.44		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	05/13/26	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet G.10

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
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Project No: 116.0663

Sheet G.10

ORD(Wide)MW.stb|PDF.pltcfg
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Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: BOYSON_FG_N

		Station	Northing	Easting
Element: Linear				
TART	(START)	500+00.06	3484695.50	5432859.24
HPI	(HPI)	504+03.01	3484707.97	5433261.99
	Tangential Direction:	N88°13'35.87"E		
	Tangential Length:	402.94		
Element: Linear				
HPI	(HPI)	504+03.01	3484707.97	5433261.99
HPI	(HPI)	505+61.82	3484707.40	5433420.80
	Tangential Direction:	S89°47'49.68"E		
	Tangential Length:	158.81		
Element: Linear				
HPI	(HPI)	505+61.82	3484707.40	5433420.80
HPI	(HPI)	506+66.34	3484707.44	5433525.33
	Tangential Direction:	N89°58'55.61"E		
	Tangential Length:	104.53		
Element: Linear				
HPI	(HPI)	506+66.34	3484707.44	5433525.33
HPI	(HPI)	508+19.01	3484709.56	5433677.98
	Tangential Direction:	N89°12'15.37"E		
	Tangential Length:	152.67		
Element: Linear				
HPI	(HPI)	508+19.01	3484709.56	5433677.98
HPI	(HPI)	509+74.72	3484714.11	5433833.62
	Tangential Direction:	N88°19'31.88"E		
	Tangential Length:	155.7		
Element: Linear				
HPI	(HPI)	509+74.72	3484714.11	5433833.62
HPI	(HPI)	511+43.41	3484713.97	5434002.31
	Tangential Direction:	S89°57'16.14"E		
	Tangential Length:	168.69		
Element: Linear				
HPI	(HPI)	511+43.41	3484713.97	5434002.31
END	(END)	513+92.50	3484713.15	5434251.40
	Tangential Direction:	S89°48'42.11"E		
	Tangential Length:	249.1		

Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: TRAIL_LOOP

		Station	Northing	Easting
Element: Circular				
	(PC)	600+00.00	3482021.30	5434619.39
	(HPI)	600+30.58	3482008.46	5434591.63
	(CC)		3482075.76	5434594.20
	(PRC)	600+56.56	3482023.38	5434564.94
	Radius:	60		
	Delta:	54.01 Right		
	Degree of Curvature (Arc):	95.49		
	Length:	56.56		
	Tangent:	30.58		
	Chord:	54.49		
	Middle Ordinate:	6.54		
	External:	7.34		
	Back Tangent Direction:	S65.18°W		
	Back Radial Direction:	N24.82°W		
	Chord Direction:	N87.82°W		
	Ahead Radial Direction:	N29.19°E		
	Ahead Tangent Direction:	N60.81°W		
Element: Circular				
	(GML2)	600+56.56	3482023.38	5434564.94
	(HPI)	600+66.73	3482028.33	5434556.06
	(CC)		3481881.19	5434485.50
	(PCC)	600+76.87	3482032.15	5434546.64
	Radius:	162.87		
	Delta:	7.14 Left		
	Degree of Curvature (Arc):	35.18		
	Length:	20.31		
	Tangent:	10.17		
	Chord:	20.29		
	Middle Ordinate:	0.32		
	External:	0.32		
	Back Tangent Direction:	N60.81°W		
	Back Radial Direction:	N29.19°E		
	Chord Direction:	N64.38°W		
	Ahead Radial Direction:	N22.05°E		
	Ahead Tangent Direction:	N67.95°W		
Element: Circular				
	(GML3)	600+76.87	3482032.15	5434546.64
	(HPI)	601+54.46	3482061.28	5434474.72
	(CC)		3481969.12	5434521.11
	(PCC)	601+92.63	3481986.15	5434455.28
	Radius:	68		
	Delta:	97.54 Left		
	Degree of Curvature (Arc):	84.26		
	Length:	115.77		
	Tangent:	77.6		
	Chord:	102.28		
	Middle Ordinate:	23.18		
	External:	35.18		
	Back Tangent Direction:	N67.95°W		
	Back Radial Direction:	N22.05°E		
	Chord Direction:	S63.28°W		
	Ahead Radial Direction:	N75.50°W		
	Ahead Tangent Direction:	S14.50°W		

Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: TRAIL_LOOP

		Station	Northing	Easting
Element: Circular				
PCC	(GML17)	601+92.63	3481986.15	5434455.28
HPI	(HPI)	602+80.99	3481900.61	5434433.15
CC	(CC)		3481923.47	5434697.59
PRC	(PRC)	603+62.51	3481820.13	5434469.63
	Radius:	250.29		
	Delta:	38.89 Left		
	Degree of Curvature (Arc):	22.89		
	Length:	169.88		
	Tangent:	88.36		
	Chord:	166.64		
	Middle Ordinate:	14.28		
	External:	15.14		
	Back Tangent Direction:	S14.50°W		
	Back Radial Direction:	N75.50°W		
	Chord Direction:	S4.94°E		
	Ahead Radial Direction:	S65.62°W		
	Ahead Tangent Direction:	S24.38°E		
Element: Circular				
PRC	(GML18)	603+62.51	3481820.13	5434469.63
HPI	(HPI)	604+08.47	3481778.28	5434488.60
CC	(CC)		3481739.21	5434291.12
PRC	(PRC)	604+52.79	3481732.35	5434486.99
	Radius:	196		
	Delta:	26.39 Right		
	Degree of Curvature (Arc):	29.23		
	Length:	90.28		
	Tangent:	45.95		
	Chord:	89.48		
	Middle Ordinate:	5.17		
	External:	5.32		
	Back Tangent Direction:	S24.38°E		
	Back Radial Direction:	S65.62°W		
	Chord Direction:	S11.19°E		
	Ahead Radial Direction:	N87.99°W		
	Ahead Tangent Direction:	S2.01°W		
Element: Circular				
PRC	(GML19)	604+52.79	3481732.35	5434486.99
CC	(CC)		3481728.15	5434606.92
PRC	(PRC)	609+06.24	3481796.12	5434705.82
	Radius:	120		
	Delta:	216.51 Left		
	Degree of Curvature (Arc):	47.75		
	Length:	453.45		
	Tangent:	0		
	Chord:	227.92		
	Middle Ordinate:	0		
	External:	0		
	Back Tangent Direction:	S2.01°W		
	Back Radial Direction:	N87.99°W		
	Chord Direction:	N73.75°E		
	Ahead Radial Direction:	N55.50°E		
	Ahead Tangent Direction:	N34.50°W		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	FINAL PLANS	05/13/26
	REVISION	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet G.11

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet G.11

ORD(WithMWVisibilityPDFLatticeSettings)
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Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: TRAIL_LOOP

		Station	Northing	Easting
Element: Circular				
PRC	(GML20)	609+06.24	3481796.12	5434705.82
HPI	(HPI)	609+81.28	3481857.96	5434663.31
CC	(CC)		3482077.06	5435114.58
PRC	(PRC)	610+55.19	3481929.61	5434641.01
	Radius:	496		
	Delta:	17.21 Right		
	Degree of Curvature (Arc):	11.55		
	Length:	148.95		
	Tangent:	75.04		
	Chord:	148.39		
	Middle Ordinate:	5.58		
	External:	5.64		
	Back Tangent Direction:	N34.50°W		
	Back Radial Direction:	N55.50°E		
	Chord Direction:	N25.90°W		
	Ahead Radial Direction:	N72.71°E		
	Ahead Tangent Direction:	N17.29°W		
Element: Circular				
PRC	(GML21)	610+55.19	3481929.61	5434641.01
HPI	(HPI)	610+71.10	3481944.80	5434636.28
CC	(CC)		3481881.19	5434485.50
PRC	(PRC)	610+86.91	3481958.79	5434628.69
	Radius:	162.87		
	Delta:	11.16 Left		
	Degree of Curvature (Arc):	35.18		
	Length:	31.72		
	Tangent:	15.91		
	Chord:	31.67		
	Middle Ordinate:	0.77		
	External:	0.78		
	Back Tangent Direction:	N17.29°W		
	Back Radial Direction:	N72.71°E		
	Chord Direction:	N22.87°W		
	Ahead Radial Direction:	N61.55°E		
	Ahead Tangent Direction:	N28.45°W		
Element: Circular				
PRC	(GML22)	610+86.91	3481958.79	5434628.69
HPI	(HPI)	611+44.38	3482009.31	5434601.32
CC	(CC)		3481987.38	5434681.45
PRC	(PRC)	611+78.57	3482038.85	5434650.61
	Radius:	60		
	Delta:	87.53 Right		
	Degree of Curvature (Arc):	95.49		
	Length:	91.66		
	Tangent:	57.46		
	Chord:	83		
	Middle Ordinate:	16.67		
	External:	23.08		
	Back Tangent Direction:	N28.45°W		
	Back Radial Direction:	N61.55°E		
	Chord Direction:	N15.31°E		
	Ahead Radial Direction:	S30.93°E		
	Ahead Tangent Direction:	N59.07°E		

Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: TRAIL_LOOP

		Station	Northing	Easting
Element: Circular				
PRC	(GML23)	611+78.57	3482038.85	5434650.61
HPI	(HPI)	611+98.86	3482049.27	5434668.01
CC	(CC)		3482659.26	5434278.90
PT	(GML28)	612+19.13	3482060.66	5434684.80
	Radius:	723.24		
	Delta:	3.21 Left		
	Degree of Curvature (Arc):	7.92		
	Length:	40.56		
	Tangent:	20.29		
	Chord:	40.55		
	Middle Ordinate:	0.28		
	External:	0.28		
	Back Tangent Direction:	N59.07°E		
	Back Radial Direction:	S30.93°E		
	Chord Direction:	N57.47°E		
	Ahead Radial Direction:	S34.14°E		
	Ahead Tangent Direction:	N55.86°E		
Element: Linear				
PT	(PT)	612+19.13	3482060.66	5434684.80
PC	(GML24)	613+05.13	3482108.92	5434755.98
	Tangential Direction:	N55.86°E		
	Tangential Length:	86		
Element: Circular				
PC	(PC)	613+05.13	3482108.92	5434755.98
HPI	(HPI)	613+34.58	3482125.45	5434780.35
CC	(CC)		3482089.06	5434769.45
PT	(PT)	613+47.71	3482098.24	5434791.62
	Radius:	24		
	Delta:	101.64 Right		
	Degree of Curvature (Arc):	238.73		
	Length:	42.58		
	Tangent:	29.45		
	Chord:	37.21		
	Middle Ordinate:	8.84		
	External:	13.99		
	Back Tangent Direction:	N55.86°E		
	Back Radial Direction:	S34.14°E		
	Chord Direction:	S73.32°E		
	Ahead Radial Direction:	S67.50°W		
	Ahead Tangent Direction:	S22.50°E		
Element: Linear				
PT	(GML24)	613+47.71	3482098.24	5434791.62
PC	(PC)	613+96.57	3482053.10	5434810.32
	Tangential Direction:	S22.50°E		
	Tangential Length:	48.86		

Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: TRAIL_LOOP

		Station	Northing	Easting
Element: Circular				
PC	(PC)	613+96.57	3482053.10	5434810.32
HPI	(HPI)	614+05.89	3482044.49	5434813.88
CC	(CC)		3482058.83	5434824.18
PT	(PT)	614+13.24	3482043.87	5434823.18
	Radius:	15		
	Delta:	63.68 Left		
	Degree of Curvature (Arc):	21.97		
	Length:	16.67		
	Tangent:	9.32		
	Chord:	15.83		
	Middle Ordinate:	2.26		
	External:	2.66		
	Back Tangent Direction:	S22.50°E		
	Back Radial Direction:	S67.50°W		
	Chord Direction:	S54.34°E		
	Ahead Radial Direction:	S3.82°W		
	Ahead Tangent Direction:	S86.18°E		
Element: Linear				
PT	(GML25)	614+13.24	3482043.87	5434823.18
HPI	(HPI)	614+38.91	3482042.16	5434848.79
	Tangential Direction:	S86.18°E		
	Tangential Length:	25.67		
Element: Linear				
HPI	(HPI)	614+38.91	3482042.16	5434848.79
HPI	(HPI)	614+61.14	3482019.98	5434847.31
	Tangential Direction:	S3.82°W		
	Tangential Length:	22.22		
Element: Linear				
HPI	(HPI)	614+61.14	3482019.98	5434847.31
END	(END)	614+71.14	3482010	5434846.64
	Tangential Direction:	S3.82°W		
	Tangential Length:	10		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	05/13/26	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/13/2026

Project No: 116.0663 | Sheet G.12

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet G.12

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Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: TRAIL

		Station	Northing	Easting
Element: Linear				
START	(START)	700+00.00	3482375.02	5434288.95
HPI	(HPI)	700+68.81	3482413.63	5434345.90
	Tangential Direction:	N55.86°E		
	Tangential Length:	68.81		
Element: Linear				
HPI	(HPI)	700+68.81	3482413.63	5434345.90
PC	(PC)	702+77.00	3482530.48	5434518.21
	Tangential Direction:	N55.86°E		
	Tangential Length:	208.2		
Element: Circular				
PC	(PC)	702+77.00	3482530.48	5434518.21
HPI	(HPI)	703+02.44	3482544.75	5434539.26
CC	(CC)		3482431.16	5434585.56
PT	(PT)	703+27.13	3482549.26	5434564.29
	Radius:	120		
	Delta:	23.93 Right		
	Degree of Curvature (Arc):	47.75		
	Length:	50.13		
	Tangent:	25.43		
	Chord:	49.76		
	Middle Ordinate:	2.61		
	External:	2.67		
	Back Tangent Direction:	N55.86°E		
	Back Radial Direction:	S34.14°E		
	Chord Direction:	N67.83°E		
	Ahead Radial Direction:	S10.21°E		
	Ahead Tangent Direction:	N79.79°E		
Element: Linear				
PT	(PT)	703+27.13	3482549.26	5434564.29
END	(END)	703+91.17	3482560.61	5434627.33
	Tangential Direction:	N79.79°E		
	Tangential Length:	64.05		

Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: TRAIL_E

		Station	Northing	Easting
Element: Linear				
START	(START)	800+00.00	3482545.72	5434549.86
PC	(PC)	800+41.39	3482585.14	5434537.23
	Tangential Direction:	N17.77°W		
	Tangential Length:	41.39		
Element: Circular				
PC	(GML7)	800+41.39	3482585.14	5434537.23
HPI	(HPI)	801+02.88	3482643.69	5434518.47
CC	(CC)		3482545.47	5434413.43
PRC	(PRC)	801+56.26	3482666.34	5434461.3
	Radius:	130		
	Delta:	50.63 Left		
	Degree of Curvature (Arc):	44.07		
	Length:	114.87		
	Tangent:	61.49		
	Chord:	111.17		
	Middle Ordinate:	12.48		
	External:	13.81		
	Back Tangent Direction:	N17.77°W		
	Back Radial Direction:	N72.23°E		
	Chord Direction:	N43.08°W		
	Ahead Radial Direction:	N21.61°E		
	Ahead Tangent Direction:	N68.39°W		
Element: Circular				
PRC	(GML8)	801+56.26	3482666.34	5434461.30
HPI	(HPI)	802+01.20	3482682.88	5434419.51
CC	(CC)		3482776.04	5434504.75
PRC	(PRC)	802+42.13	3482723.03	5434399.32
	Radius:	118		
	Delta:	41.7 Right		
	Degree of Curvature (Arc):	48.56		
	Length:	85.88		
	Tangent:	44.94		
	Chord:	83.99		
	Middle Ordinate:	7.73		
	External:	8.27		
	Back Tangent Direction:	N68.39°W		
	Back Radial Direction:	N21.61°E		
	Chord Direction:	N47.55°W		
	Ahead Radial Direction:	N63.30°E		
	Ahead Tangent Direction:	N26.70°W		
Element: Circular				
PRC	(GML9)	802+42.13	3482723.03	5434399.32
HPI	(HPI)	803+12.44	3482785.84	5434367.74
CC	(CC)		3482682.60	5434318.92
PT	(PT)	803+61.51	3482770.4	5434299.15
	Radius:	90		
	Delta:	75.99 Left		
	Degree of Curvature (Arc):	63.66		
	Length:	119.37		
	Tangent:	70.31		
	Chord:	110.81		
	Middle Ordinate:	19.08		
	External:	24.21		
	Back Tangent Direction:	N26.70°W		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: TRAIL_E

		Station	Northing	Easting
Element: Circular				
PRC	(GML9)	3002+42.13	3482723.03	5434399.32
HPI	(HPI)	3003+12.44	3482785.84	5434367.74
CC	(CC)		3482682.60	5434318.92
PT	(PT)	3003+61.51	3482770.40	5434299.15
	Radius:	90		
	Delta:	75.99 Left		
	Degree of Curvature (Arc):	63.66		
	Length:	119.37		
	Tangent:	70.31		
	Chord:	110.81		
	Middle Ordinate:	19.08		
	External:	24.21		
	Back Tangent Direction:	N26°41'49.21"W		
	Back Radial Direction:	N63°18'10.79"E		
	Chord Direction:	N64°41'39.79"W		
	Ahead Radial Direction:	N12°41'30.37"W		
	Ahead Tangent Direction:	S77°18'29.63"W		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet G.13

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

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900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet G.13

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Horizontal Alignment Review Report

Report Created: Tuesday, May 12, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: TRAIL_W

		Station	Northing	Easting
Element: Linear				
START	(START)	900+00.00	3482398.94	5434333.14
PC	(PC)	900+86.93	3482470.89	5434284.35
	Tangential Direction:	N34.14°W		
	Tangential Length:	86.93		
Element: Circular				
PC	(PC)	900+86.93	3482470.89	5434284.35
HPI	(HPI)	901+14.56	3482493.76	5434268.84
CC	(CC)		3482498.95	5434325.73
PT	(PT)	901+37.41	3482519.05	5434279.95
	Radius:	50		
	Delta:	57.84 Right		
	Degree of Curvature (Arc):	114.59		
	Length:	50.48		
	Tangent:	27.63		
	Chord:	48.36		
	Middle Ordinate:	6.24		
	External:	7.12		
	Back Tangent Direction:	N34.14°W		
	Back Radial Direction:	N55.86°E		
	Chord Direction:	N5.22°W		
	Ahead Radial Direction:	S66.30°E		
	Ahead Tangent Direction:	N23.70°E		
Element: Linear				
PT	(PT)	901+37.41	3482519.05	5434279.95
PC	(PC)	901+38.84	3482520.36	5434280.52
	Tangential Direction:	N23.70°E		
	Tangential Length:	1.43		
Element: Circular				
PC	(PC)	901+38.84	3482520.36	5434280.52
HPI	(HPI)	901+59.63	3482539.40	5434288.88
CC	(CC)		3482540.46	5434234.74
PT	(PT)	901+78.25	3482558.75	5434281.28
	Radius:	50		
	Delta:	45.16 Left		
	Degree of Curvature (Arc):	114.59		
	Length:	39.41		
	Tangent:	20.79		
	Chord:	38.4		
	Middle Ordinate:	3.83		
	External:	4.15		
	Back Tangent Direction:	N23.70°E		
	Back Radial Direction:	S66.30°E		
	Chord Direction:	N1.12°E		
	Ahead Radial Direction:	N68.54°E		
	Ahead Tangent Direction:	N21.46°W		
Element: Linear				
PT	(PT)	901+78.25	3482558.75	5434281.28
PC	(PC)	902+71.78	3482645.80	5434247.06
	Tangential Direction:	N21.46°W		
	Tangential Length:	93.53		
Element: Circular				
PC	(PC)	902+71.78	3482645.80	5434247.06
HPI	(HPI)	903+07.01	3482678.58	5434234.18
CC	(CC)		3482666.81	5434300.52
PT	(PT)	903+34.98	3482704.93	5434257.55

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: CREEK_GRADING

		Station	Northing	Easting
Element: Linear				
START	(START)	0+00.00	3482213.99	5434377.25
PC	(PC)	0+37.11	3482244.26	5434355.79
	Tangential Direction:	N35°20'18.90"W		
	Tangential Length:	37.11		
Element: Circular				
PC	(PC)	0+37.11	3482244.26	5434355.79
HPI	(HPI)	1+47.48	3482348.01	5434318.15
CC	(CC)		3482297.94	5434503.80
PT	(PT)	2+29.64	3482418.78	5434402.86
	Radius:	157.45		
	Delta:	70.06 Right		
	Degree of Curvature (Arc):	36.39		
	Length:	192.53		
	Tangent:	110.37		
	Chord:	180.76		
	Middle Ordinate:	28.52		
	External:	34.83		
	Back Tangent Direction:	N19°56'10.01"W		
	Back Radial Direction:	N70°03'49.99"E		
	Chord Direction:	N15°05'39.06"E		
	Ahead Radial Direction:	S39°52'31.88"E		
	Ahead Tangent Direction:	N50°07'28.12"E		
Element: Linear				
PT	(PT)	2+29.64	3482418.78	5434402.86
HPI	(HPI)	2+71.93	3482445.42	5434435.71
	Tangential Direction:	N50°57'25.96"E		
	Tangential Length:	42.3		
Element: Linear				
HPI	(HPI)	2+71.93	3482445.42	5434435.71
HPI	(HPI)	2+94.88	3482458.98	5434454.22
	Tangential Direction:	N53°46'40.34"E		
	Tangential Length:	22.95		
Element: Linear				
HPI	(HPI)	2+94.88	3482458.98	5434454.22
HPI	(HPI)	3+17.87	3482471.86	5434473.26
	Tangential Direction:	N55°55'46.28"E		
	Tangential Length:	22.99		
Element: Linear				
HPI	(HPI)	3+17.87	3482471.86	5434473.26
HPI	(HPI)	3+31.25	3482478.77	5434484.72
	Tangential Direction:	N58°53'15.68"E		
	Tangential Length:	13.38		
Element: Linear				
HPI	(HPI)	3+31.25	3482478.77	5434484.72
HPI	(HPI)	3+40.01	3482482.61	5434492.60
	Tangential Direction:	N64°02'15.23"E		
	Tangential Length:	8.76		
Element: Linear				
HPI	(HPI)	3+40.01	3482482.61	5434492.60
END	(END)	3+58.38	3482500.90	5434494.29
	Tangential Direction:	N05°16'59.19"E		
	Tangential Length:	18.37		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: WATER_7TH/ MARION

		Station	Northing	Easting
Element: Linear				
START	(START)	999+78.35	3480777.26	5434698.51
HPI	(HPI)	1000+17.18	3480781.14	5434737.14
	Tangential Direction:	N84°15'59.23"E		
	Tangential Length:	38.83		
Element: Linear				
HPI	(HPI)	1000+17.18	3480781.14	5434737.14
HPI	(HPI)	1000+24.45	3480786.9	5434741.57
	Tangential Direction:	N37°30'30.09"E		
	Tangential Length:	7.27		
Element: Linear				
HPI	(HPI)	1000+24.45	3480786.9	5434741.57
HPI	(HPI)	1002+26.18	3480813.2	5434941.58
	Tangential Direction:	N82°30'30.09"E		
	Tangential Length:	201.73		
Element: Linear				
HPI	(HPI)	1002+26.18	3480813.2	5434941.58
HPI	(HPI)	1003+16.36	3480824.86	5435031
	Tangential Direction:	N82°34'11.97"E		
	Tangential Length:	90.17		
Element: Linear				
HPI	(HPI)	1003+16.36	3480824.86	5435031
HPI	(HPI)	1003+55.65	3480829.94	5435069.96
	Tangential Direction:	N82°34'29.54"E		
	Tangential Length:	39.29		
Element: Linear				
HPI	(HPI)	1003+55.65	3480829.94	5435069.96
HPI	(HPI)	1004+18.01	3480838	5435131.8
	Tangential Direction:	N82°34'29.54"E		
	Tangential Length:	62.37		
Element: Linear				
HPI	(HPI)	1004+18.01	3480838	5435131.8
HPI	(HPI)	1004+68.45	3480845.52	5435181.68
	Tangential Direction:	N81°25'17.84"E		
	Tangential Length:	50.44		
Element: Linear				
HPI	(HPI)	1004+68.45	3480845.52	5435181.68
HPI	(HPI)	1004+92.63	3480849.13	5435205.59
	Tangential Direction:	N81°25'17.84"E		
	Tangential Length:	24.18		
Element: Linear				
HPI	(HPI)	1004+92.63	3480849.13	5435205.59
HPI	(HPI)	1004+94.63	3480849.43	5435207.56
	Tangential Direction:	N81°25'17.84"E		
	Tangential Length:	2		
Element: Linear				
HPI	(HPI)	1004+94.63	3480849.43	5435207.56
HPI	(HPI)	1005+27.22	3480854.29	5435239.78
	Tangential Direction:	N81°25'17.84"E		
	Tangential Length:	32.58		
Element: Linear				
HPI	(HPI)	1005+27.22	3480854.29	5435239.78
HPI	(HPI)	1005+27.93	3480854.4	5435240.49
	Tangential Direction:	N81°25'17.84"E		
	Tangential Length:	0.72		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet G.14

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

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Project No: 116.0663

Sheet G.14

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Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: WATER_7TH/ MARION

		Station	Northing	Easting
Element: Linear				
HPI	(HPI)	1005+27.93	3480854.4	5435240.49
HPI	(HPI)	1005+30.22	3480854.74	5435242.75
	Tangential Direction:	N81°24'07.83"E		
	Tangential Length:	2.28		
Element: Linear				
HPI	(HPI)	1005+30.22	3480854.74	5435242.75
HPI	(HPI)	1005+35.77	3480855.57	5435248.24
	Tangential Direction:	N81°25'46.62"E		
	Tangential Length:	5.55		
Element: Linear				
HPI	(HPI)	1005+35.77	3480855.57	5435248.24
HPI	(HPI)	1005+41.08	3480850.32	5435249.03
	Tangential Direction:	S08°34'13.38"E		
	Tangential Length:	5.31		
Element: Linear				
HPI	(HPI)	1005+41.08	3480850.32	5435249.03
HPI	(HPI)	1005+46.49	3480851.02	5435254.4
	Tangential Direction:	N82°30'23.01"E		
	Tangential Length:	5.41		
Element: Linear				
HPI	(HPI)	1005+46.49	3480851.02	5435254.4
END	(END)	1005+69.38	3480854.01	5435277.09
	Tangential Direction:	N82°30'23.01"E		
	Tangential Length:	22.89		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: WATER_8TH_AVE_DRIVEWAY

		Station	Northing	Easting
Element: Linear				
START	(START)	6000+00.00	3481108.37	5434507.35
HPI	(HPI)	6000+10.00	3481118.37	5434507.29
	Tangential Direction:	N00°21'16.97"W		
	Tangential Length:	10		
Element: Linear				
HPI	(HPI)	6000+10.00	3481118.37	5434507.29
HPI	(HPI)	6000+13.54	3481120.86	5434504.77
	Tangential Direction:	N45°21'16.97"W		
	Tangential Length:	3.54		
Element: Linear				
HPI	(HPI)	6000+13.54	3481120.86	5434504.77
HPI	(HPI)	6001+61.31	3481268.62	5434504.67
	Tangential Direction:	N00°02'25.35"W		
	Tangential Length:	147.77		
Element: Linear				
HPI	(HPI)	6001+61.31	3481268.62	5434504.67
HPI	(HPI)	6001+66.02	3481271.96	5434508.00
	Tangential Direction:	N44°57'34.65"E		
	Tangential Length:	4.71		
Element: Linear				
HPI	(HPI)	6001+66.02	3481271.96	5434508.00
END	(END)	6001+78.02	3481283.96	5434508.30
	Tangential Direction:	N01°27'48.68"E		
	Tangential Length:	12		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: WATER_ALBURNETT_RD

		Station	Northing	Easting
Element: Linear				
ART	(START)	1999+90.00	3481262.30	5434883.27
HPI	(HPI)	2000+06.72	3481279.02	5434882.81
	Tangential Direction:	N01°33'56.85"W		
	Tangential Length:	16.72		
Element: Linear				
HPI	(HPI)	2000+06.72	3481279.02	5434882.81
HPI	(HPI)	2000+14.53	3481284.39	5434877.14
	Tangential Direction:	N46°33'51.52"W		
	Tangential Length:	7.81		
Element: Linear				
HPI	(HPI)	2000+14.53	3481284.39	5434877.14
HPI	(HPI)	2000+41.09	3481310.94	5434876.41
	Tangential Direction:	N01°33'59.04"W		
	Tangential Length:	26.56		
Element: Linear				
HPI	(HPI)	2000+41.09	3481310.94	5434876.41
HPI	(HPI)	2001+34.78	3481404.59	5434873.85
	Tangential Direction:	N01°33'51.33"W		
	Tangential Length:	93.69		
Element: Linear				
HPI	(HPI)	2001+34.78	3481404.59	5434873.85
HPI	(HPI)	2002+72.64	3481542.43	5434871.63
	Tangential Direction:	N00°55'29.30"W		
	Tangential Length:	137.86		
Element: Linear				
HPI	(HPI)	2002+72.64	3481542.43	5434871.63
HPI	(HPI)	2002+80.64	3481550.43	5434871.50
	Tangential Direction:	N00°56'13.02"W		
	Tangential Length:	8		
Element: Linear				
HPI	(HPI)	2002+80.64	3481550.43	5434871.50
HPI	(HPI)	2002+94.32	3481564.11	5434871.28
	Tangential Direction:	N00°55'31.70"W		
	Tangential Length:	13.68		
Element: Linear				
HPI	(HPI)	2002+94.32	3481564.11	5434871.28
HPI	(HPI)	2003+46.76	3481616.53	5434870.02
	Tangential Direction:	N01°22'42.10"W		
	Tangential Length:	52.44		
Element: Linear				
HPI	(HPI)	2003+46.76	3481616.53	5434870.02
HPI	(HPI)	2004+74.16	3481743.90	5434866.95
	Tangential Direction:	N01°22'42.10"W		
	Tangential Length:	127.4		
Element: Linear				
HPI	(HPI)	2004+74.16	3481743.90	5434866.95
HPI	(HPI)	2005+02.85	3481772.55	5434865.62
	Tangential Direction:	N02°40'03.63"W		
	Tangential Length:	28.69		
Element: Linear				
HPI	(HPI)	2005+02.85	3481772.55	5434865.62
END	(END)	2005+12.86	3481782.55	5434865.15
	Tangential Direction:	N02°40'03.63"W		
	Tangential Length:	10.01		

Horizontal Alignment Review Report

Report Created: Wednesday, May 13, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: WATER_8TH_AVE_12"

		Station	Northing	Easting
Element: Linear				
START	(START)	5000+00.00	3481264.01	5434954.42
HPI	(HPI)	5000+13.36	3481265.15	5434967.73
	Tangential Direction:	N85.13°E		
	Tangential Length:	13.36		
Element: Linear				
HPI	(HPI)	5000+13.36	3481265.15	5434967.73
HPI	(HPI)	5000+33.47	3481266.31	5434987.80
	Tangential Direction:	N86.68°E		
	Tangential Length:	20.11		
Element: Linear				
HPI	(GeomBL2)	5000+33.47	3481266.31	5434987.80
HPI	(HPI)	5000+45.09	3481266.38	5434999.43
	Tangential Direction:	N89.67°E		
	Tangential Length:	11.63		
Element: Linear				
HPI	(HPI)	5000+45.09	3481266.38	5434999.43
HPI	(HPI)	5000+55.10	3481266.60	5435009.43
	Tangential Direction:	N88.74°E		
	Tangential Length:	10.01		
Element: Linear				
HPI	(HPI)	5000+55.10	3481266.60	5435009.43
HPI	(HPI)	5000+65.89	3481266.89	5435020.22
	Tangential Direction:	N88.44°E		
	Tangential Length:	10.79		
Element: Linear				
HPI	(GeomBL5)	5000+65.89	3481266.89	5435020.22
HPI	(HPI)	5000+85.50	3481267.07	5435039.83
	Tangential Direction:	N89.48°E		
	Tangential Length:	19.61		
Element: Linear				
HPI	(HPI)	5000+85.50	3481267.07	5435039.83
HPI	(HPI)	5001+02.68	3481267.38	5435057.01
	Tangential Direction:	N88.97°E		
	Tangential Length:	17.18		
Element: Linear				
HPI	(GeomBL7)	5001+02.68	3481267.38	5435057.01
HPI	(HPI)	5001+15.16	3481267.52	5435069.49
	Tangential Direction:	N89.36°E		
	Tangential Length:	12.48		
Element: Linear				
HPI	(HPI)	5001+15.16	3481267.52	5435069.49
HPI	(HPI)	5001+25.56	3481267.74	5435079.88
	Tangential Direction:	N88.76°E		
	Tangential Length:	10.4		
Element: Linear				
HPI	(HPI)	5001+25.56	3481267.74	5435079.88
HPI	(HPI)	5001+35.26	3481267.96	5435089.58
	Tangential Direction:	N88.72°E		
	Tangential Length:	9.7		
Element: Linear				
HPI	(HPI)	5001+35.26	3481267.96	5435089.57
HPI	(HPI)	5001+64.38	3481268.37	5435118.68
	Tangential Direction:	N89.19°E		
	Tangential Length:	29.12		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	FINAL PLANS	05/13/26
	REVISION	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/13/2026 | Project No: 116.0663

Sheet G.15

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

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Project No: 116.0663

Sheet G.15

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Horizontal Alignment Review Report

Report Created: Wednesday, May 13, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: WATER_8TH_AVE_12"

		Station	Northing	Easting
Element: Linear				
HPI	(GeomBL11)	5001+64.38	3481268.37	5435118.68
HPI	(HPI)	5001+90.08	3481269.26	5435144.37
	Tangential Direction:	N88.01°E		
	Tangential Length:	25.7		
Element: Linear				
HPI	(GeomBL12)	5001+90.08	3481269.26	5435144.37
HPI	(HPI)	5002+17.72	3481270.22	5435171.99
	Tangential Direction:	N88.01°E		
	Tangential Length:	27.64		
Element: Linear				
HPI	(HPI)	5002+17.72	3481270.22	5435172.00
END	(END)	5002+43.10	3481270.87	5435197.38
	Tangential Direction:	N88.55°E		
	Tangential Length:	25.39		

Horizontal Alignment Review Report

Report Created: Wednesday, May 13, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: WATER_8TH_AVE_8"

		Station	Northing	Easting
Element: Linear				
START	(START)	5500+00.00	3481273.90	5434949.08
HPI	(HPI)	5500+35.53	3481275.26	5434984.59
	Tangential Direction:	N87.80°E		
	Tangential Length:	35.53		
Element: Linear				
HPI	(HPI)	5500+35.53	3481275.26	5434984.59
HPI	(GeomBL16)	5500+40.81	3481275.39	5434989.86
	Tangential Direction:	N88.62°E		
	Tangential Length:	5.28		
Element: Linear				
HPI	(HPI)	5500+40.81	3481275.39	5434989.86
HPI	(HPI)	5500+60.81	3481275.87	5435009.85
	Tangential Direction:	N88.62°E		
	Tangential Length:	20		
Element: Linear				
HPI	(GeomBL16)	5500+60.81	3481275.87	5435009.85
HPI	(HPI)	5500+67.43	3481276.03	5435016.48
	Tangential Direction:	N88.62°E		
	Tangential Length:	6.63		
Element: Linear				
HPI	(HPI)	5500+67.43	3481276.03	5435016.48
HPI	(HPI)	5500+96.63	3481277.26	5435045.65
	Tangential Direction:	N87.60°E		
	Tangential Length:	29.2		
Element: Linear				
HPI	(HPI)	5500+96.63	3481277.26	5435045.65
HPI	(HPI)	5501+10.47	3481277.85	5435059.48
	Tangential Direction:	N87.53°E		
	Tangential Length:	13.85		
Element: Linear				
HPI	(GeomBL19)	5501+10.47	3481277.85	5435059.48
HPI	(HPI)	5501+30.34	3481278.32	5435079.34
	Tangential Direction:	N88.67°E		
	Tangential Length:	19.87		
Element: Linear				
HPI	(HPI)	5501+30.34	3481278.32	5435079.34
HPI	(HPI)	5501+62.83	3481279.87	5435111.79
	Tangential Direction:	N87.27°E		
	Tangential Length:	32.49		
Element: Linear				
HPI	(GeomBL21)	5501+62.83	3481279.87	5435111.79
HPI	(HPI)	5501+84.25	3481280.34	5435133.21
	Tangential Direction:	N88.74°E		
	Tangential Length:	21.42		
Element: Linear				
HPI	(HPI)	5501+84.25	3481280.34	5435133.21
HPI	(HPI)	5502+12.05	3481282.13	5435160.95
	Tangential Direction:	N86.29°E		
	Tangential Length:	27.8		
Element: Linear				
HPI	(HPI)	5502+12.05	3481282.14	5435160.95
HPI	(HPI)	5502+17.29	3481282.15	5435166.19
	Tangential Direction:	N89.84°E		
	Tangential Length:	5.23		

Horizontal Alignment Review Report

Report Created: Wednesday, May 13, 2026

Note: All units in this report are in feet unless specified otherw ise.

Alignment Name: WATER_8TH_AVE_8"

		Station	Northing	Easting
Element: Linear				
HPI	(HPI)	5502+17.29	3481282.15	5435166.19
HPI	(HPI)	5502+21.53	3481285.16	5435169.18
	Tangential Direction:	N44.84°E		
	Tangential Length:	4.24		
Element: Linear				
HPI	(GeomBL25)	5502+21.53	3481285.16	5435169.18
HPI	(HPI)	5502+27.70	3481285.17	5435175.34
	Tangential Direction:	N89.84°E		
	Tangential Length:	6.17		
Element: Linear				
HPI	(GeomBL26)	5502+27.70	3481285.17	5435175.34
HPI	(HPI)	5502+31.94	3481282.18	5435178.35
	Tangential Direction:	S45.16°E		
	Tangential Length:	4.24		
Element: Linear				
HPI	(HPI)	5502+31.94	3481282.18	5435178.35
HPI	(HPI)	5502+33.96	3481282.19	5435180.37
	Tangential Direction:	N89.84°E		
	Tangential Length:	2.02		
Element: Linear				
HPI	(GeomBL28)	5502+33.96	3481282.19	5435180.37
HPI	(HPI)	5502+39.20	3481282.20	5435185.61
	Tangential Direction:	N89.84°E		
	Tangential Length:	5.24		
Element: Linear				
HPI	(HPI)	5502+39.20	3481282.20	5435185.61
END	(END)	5502+45.91	3481282.41	5435192.32
	Tangential Direction:	N88.20°E		
	Tangential Length:	6.71		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet G.16

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet G.16

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Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherwise.

Alignment Name: WATER_9TH_AVE

		Station	Northing	Easting
Element: Linear				
	(START)	3000+00.00	3481542.27	5434861.63
	(HPI)	3000+10.00	3481542.43	5434871.63
	Tangential Direction:	N89°02'38.10"E		
	Tangential Length:	10		
Element: Linear				
	(HPI)	3000+10.00	3481542.43	5434871.63
	(HPI)	3000+22.00	3481542.63	5434883.63
	Tangential Direction:	N89°02'38.10"E		
	Tangential Length:	12		
Element: Linear				
	(HPI)	3000+22.00	3481542.63	5434883.63
	(HPI)	3000+48.22	3481543.07	5434909.84
	Tangential Direction:	N89°02'38.10"E		
	Tangential Length:	26.22		
Element: Linear				
	(HPI)	3000+48.22	3481543.07	5434909.84
	(HPI)	3000+93.04	3481543.82	5434954.66
	Tangential Direction:	N89°02'38.10"E		
	Tangential Length:	44.82		
Element: Linear				
	(HPI)	3000+93.04	3481543.82	5434954.66
	(HPI)	3001+02.07	3481543.97	5434963.68
	Tangential Direction:	N89°02'38.10"E		
	Tangential Length:	9.03		
Element: Linear				
	(HPI)	3001+02.07	3481543.97	5434963.68
	(HPI)	3001+44.87	3481544.68	5435006.48
	Tangential Direction:	N89°02'38.10"E		
	Tangential Length:	42.8		
Element: Linear				
	(HPI)	3001+44.87	3481544.68	5435006.48
	(HPI)	3001+53.45	3481553.26	5435006.34
	Tangential Direction:	N00°57'32.66"W		
	Tangential Length:	8.58		
Element: Linear				
	(HPI)	3001+53.45	3481553.26	5435006.34
	(HPI)	3001+57.46	3481553.33	5435010.35
	Tangential Direction:	N89°02'38.49"E		
	Tangential Length:	4.01		
Element: Linear				
	(HPI)	3001+57.46	3481553.33	5435010.35
	(END)	3001+67.46	3481553.38	5435020.35
	Tangential Direction:	N89°44'03.37"E		
	Tangential Length:	10		

Horizontal Alignment Review Report

Report Created: Monday, April 6, 2026

Note: All units in this report are in feet unless specified otherwise.

Alignment Name: WATER_2ND_ST

		Station	Northing	Easting
Element: Linear				
	(START)	4000+00.00	3481765.01	5434859.05
	/ATER_ALBURNETT)	4000+10.00	3481772.55	5434865.62
	Tangential Direction:	N41°02'04.54"E		
	Tangential Length:	10		
Element: Linear				
	/ATER_ALBURNETT)	4000+10.00	3481772.55	5434865.62
	(HPI)	4000+27.61	3481785.84	5434877.18
	Tangential Direction:	N41°02'04.54"E		
	Tangential Length:	17.61		
Element: Linear				
	(HPI)	4000+27.61	3481785.84	5434877.18
	(HPI)	4000+86.35	3481830.14	5434915.74
	Tangential Direction:	N41°02'04.54"E		
	Tangential Length:	58.74		
Element: Linear				
	(HPI)	4000+86.35	3481830.14	5434915.74
	(HPI)	4000+96.35	3481837.69	5434922.30
	Tangential Direction:	N41°02'04.54"E		
	Tangential Length:	10		
Element: Linear				
	(HPI)	4000+96.35	3481837.69	5434922.30
	(HPI)	4001+15.17	3481851.88	5434934.66
	Tangential Direction:	N41°02'04.54"E		
	Tangential Length:	18.82		
Element: Linear				
	(HPI)	4001+15.17	3481851.88	5434934.66
	(HPI)	4001+16.67	3481853.02	5434935.65
	Tangential Direction:	N41°02'04.54"E		
	Tangential Length:	1.5		
Element: Linear				
	(HPI)	4001+16.67	3481853.02	5434935.65
	(HPI)	4002+36.99	3481943.78	5435014.64
	Tangential Direction:	N41°02'04.54"E		
	Tangential Length:	120.32		
Element: Linear				
	(HPI)	4002+36.99	3481943.78	5435014.64
	(HPI)	4002+38.99	3481945.28	5435015.95
	Tangential Direction:	N41°02'04.54"E		
	Tangential Length:	2		
Element: Linear				
	(HPI)	4002+38.99	3481945.28	5435015.95
	(END)	4002+48.99	3481952.83	5435022.52
	Tangential Direction:	N41°02'04.54"E		
	Tangential Length:	10		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	FINAL PLANS	05/13/26
	REVISION	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/13/2026 | Sheet G.17

Project No: 116.0663

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SURVEY CONTROL & REFERENCE INFORMATION

CITY OF MARION, IOWA

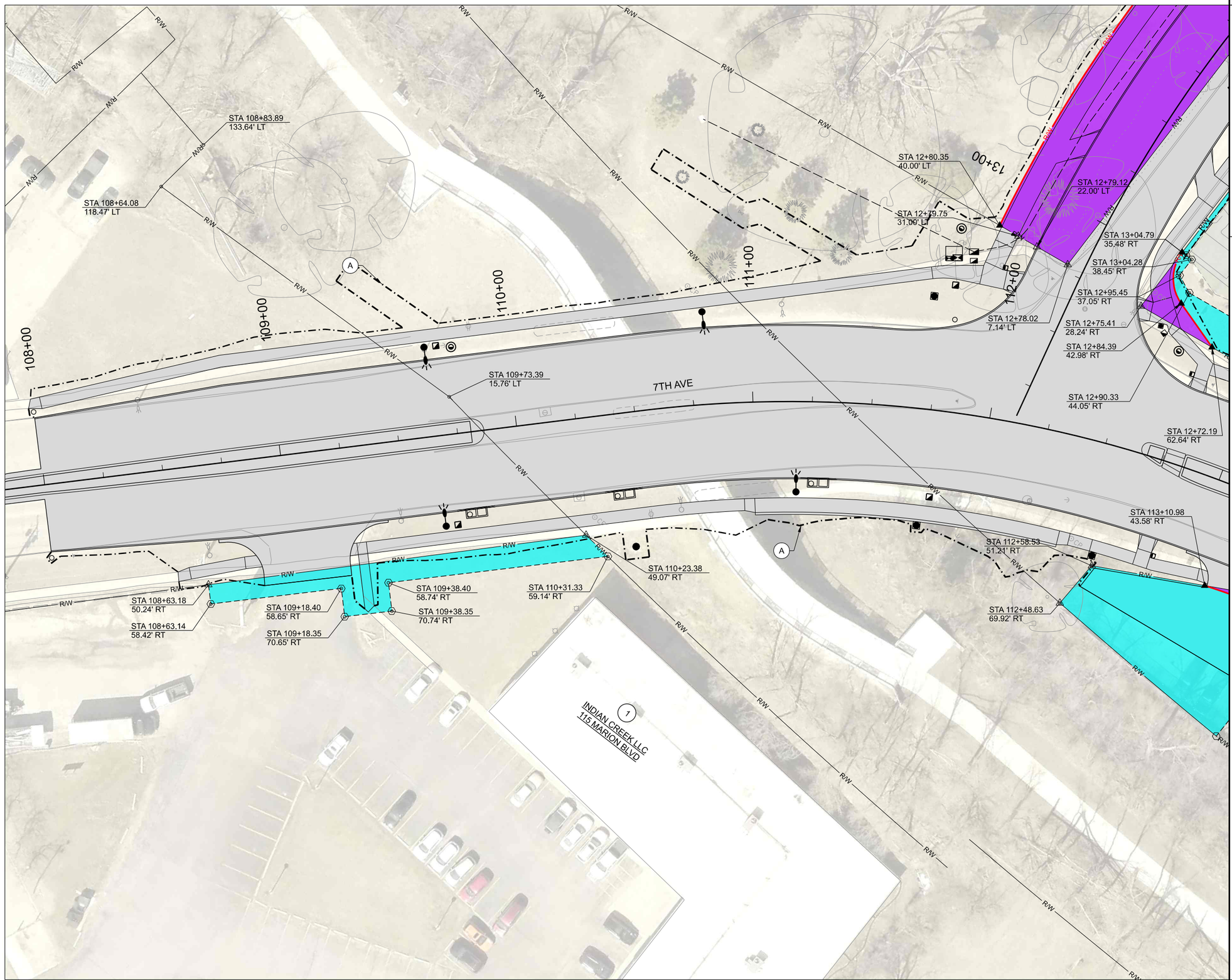
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Project No: 116.0663

Sheet G.17

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- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED TEMPORARY EASEMENT AREA
- PROPOSED RIGHT-OF-WAY ACQUISITION AREA
- PROPOSED PERMANENT EASEMENT AREA
- EXISTING RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT OF WAY
- PERMANENT EASEMENT

NOTES

(A) CONSTRUCTION LIMITS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet H.1

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RIGHT-OF-WAY

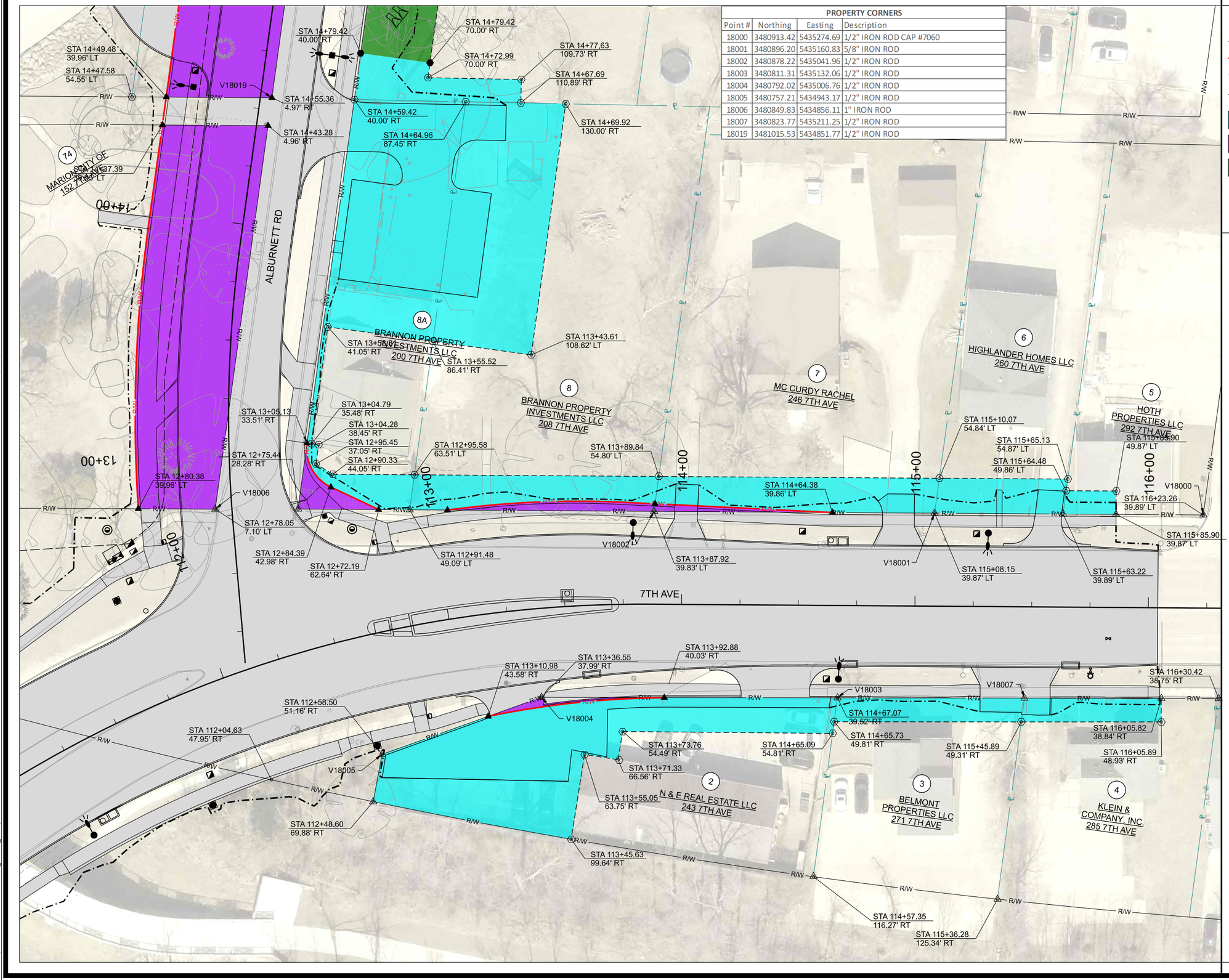
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Project No: 116.0663

Sheet H.1

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: KMM | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet H.2

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RIGHT-OF-WAY

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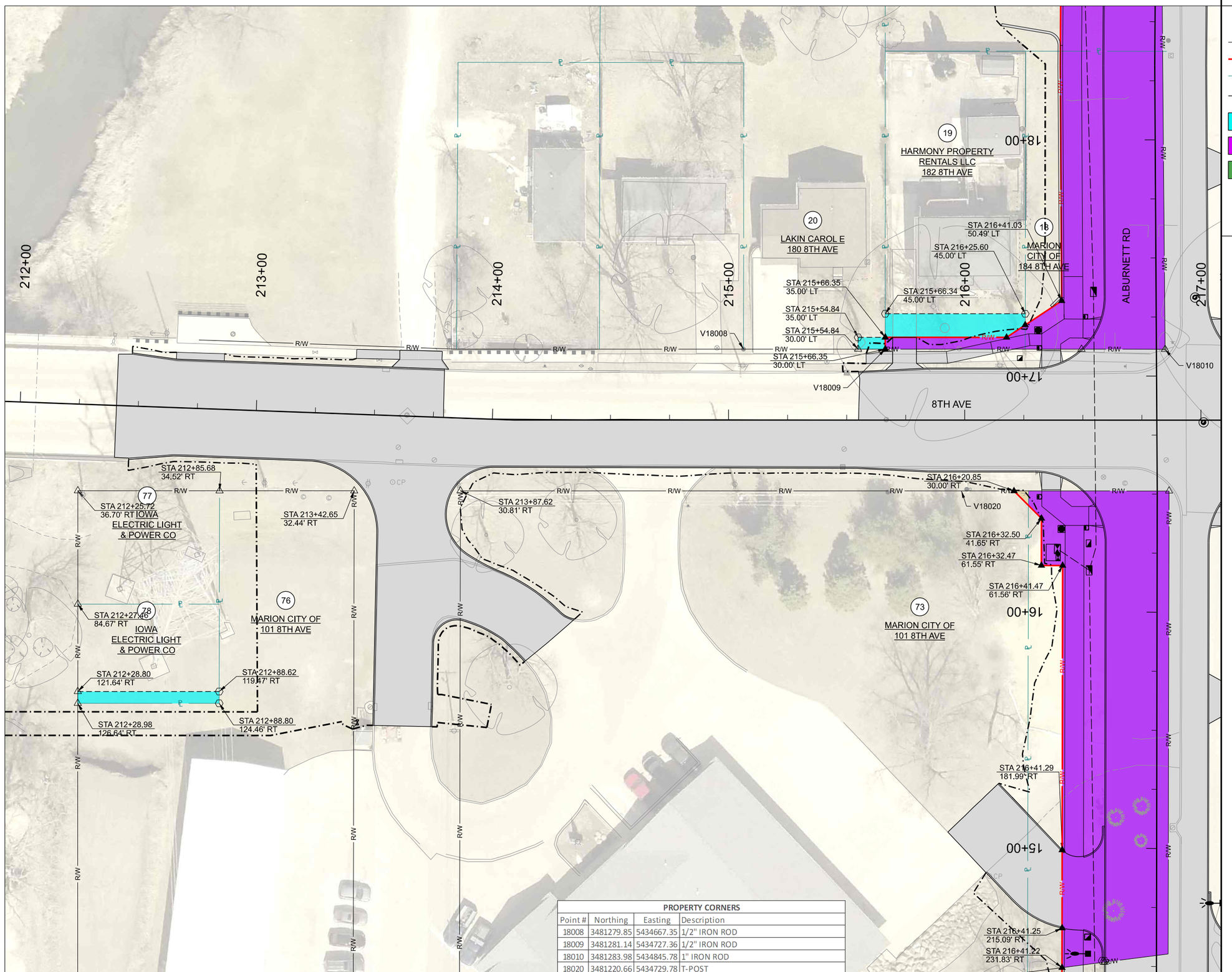
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Project No: 116.0663

Sheet H.2

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LEGEND

- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED TEMPORARY EASEMENT AREA
- PROPOSED RIGHT-OF-WAY ACQUISITION AREA
- PROPOSED PERMANENT EASEMENT AREA
- EXISTING RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT OF WAY
- PERMANENT EASEMENT

PROPERTY CORNERS

Point #	Northing	Easting	Description
18008	3481279.85	5434667.35	1/2" IRON ROD
18009	3481281.14	5434727.36	1/2" IRON ROD
18010	3481283.98	5434845.78	1" IRON ROD
18020	3481220.66	5434729.78	T-POST

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet H.3

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RIGHT-OF-WAY

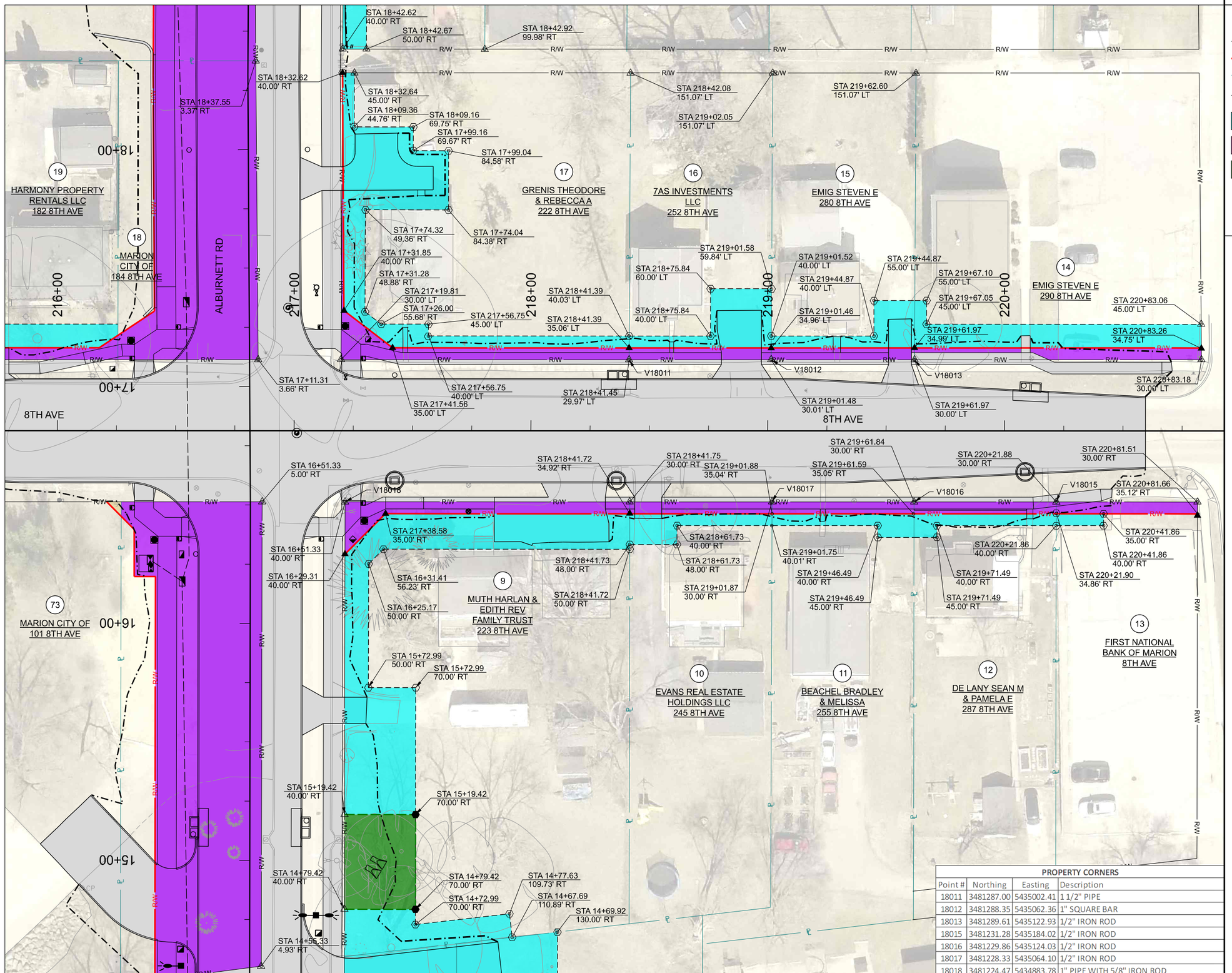
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet H.3

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LEGEND

- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED TEMPORARY EASEMENT AREA
- PROPOSED RIGHT-OF-WAY ACQUISITION AREA
- PROPOSED PERMANENT EASEMENT AREA
- EXISTING RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT OF WAY
- PERMANENT EASEMENT

PROPERTY CORNERS

Point #	Northing	Easting	Description
18011	3481287.00	5435002.41	1 1/2" PIPE
18012	3481288.35	5435062.36	1" SQUARE BAR
18013	3481289.61	5435122.93	1/2" IRON ROD
18015	3481231.28	5435184.02	1/2" IRON ROD
18016	3481229.86	5435124.03	1/2" IRON ROD
18017	3481228.33	5435064.10	1/2" IRON ROD
18018	3481224.47	5434883.78	1" PIPE WITH 5/8" IRON ROD

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026

Project No: 116.0663

Sheet H.4

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RIGHT-OF-WAY

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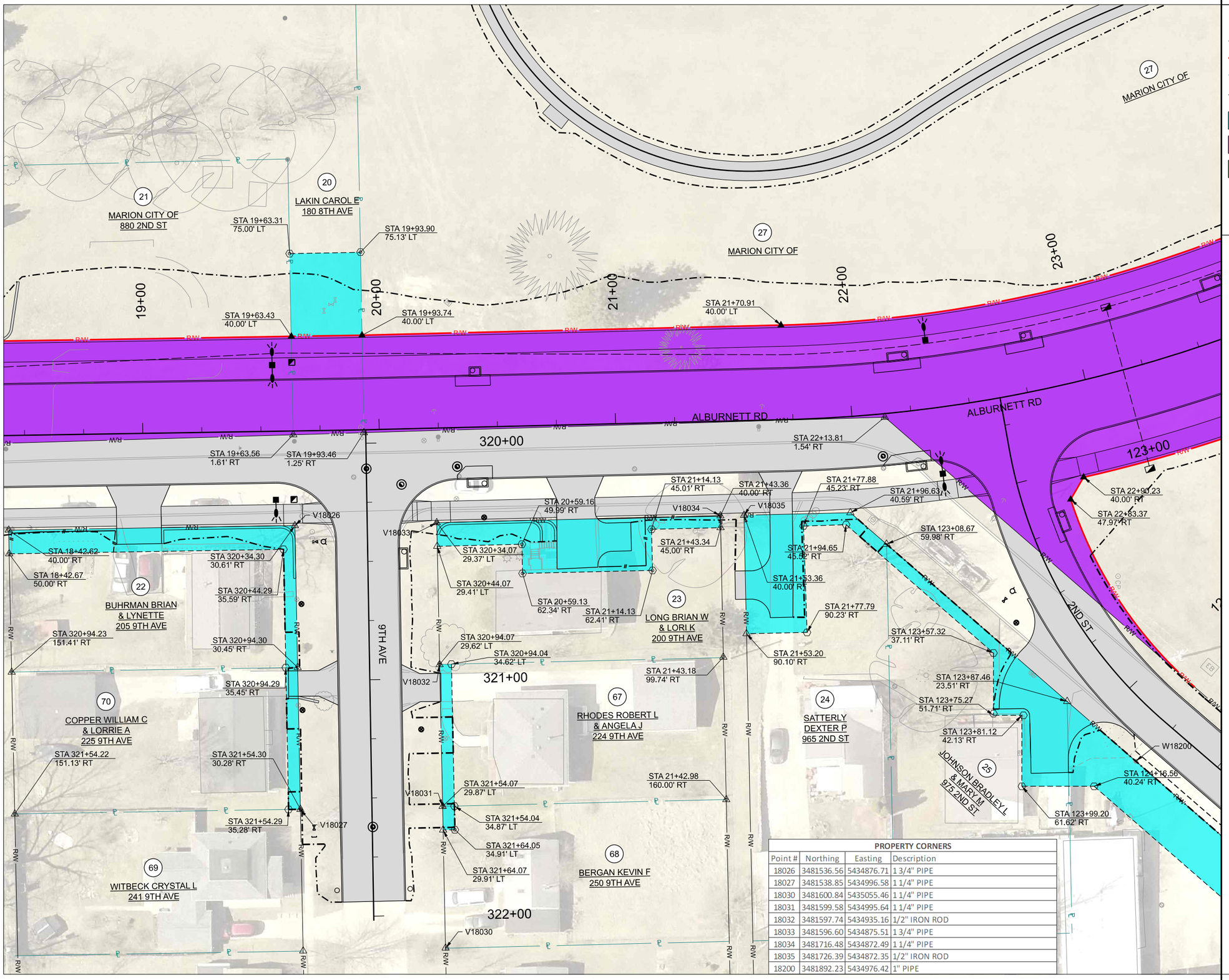
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Project No: 116.0663

Sheet H.4

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LEGEND

- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED TEMPORARY EASEMENT AREA
- PROPOSED RIGHT-OF-WAY ACQUISITION AREA
- PROPOSED PERMANENT EASEMENT AREA
- EXISTING RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT OF WAY
- PERMANENT EASEMENT

PROPERTY CORNERS

Point #	Northing	Easting	Description
18026	3481536.56	5434876.71	1 3/4" PIPE
18027	3481538.85	5434996.58	1 1/4" PIPE
18030	3481600.84	5435055.46	1 1/4" PIPE
18031	3481599.58	5434995.64	1 1/4" PIPE
18032	3481597.74	5434935.16	1/2" IRON ROD
18033	3481596.60	5434875.51	1 3/4" PIPE
18034	3481716.48	5434872.49	1 1/4" PIPE
18035	3481726.39	5434872.35	1/2" IRON ROD
18200	3481892.23	5434976.42	1" PIPE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet H.5

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

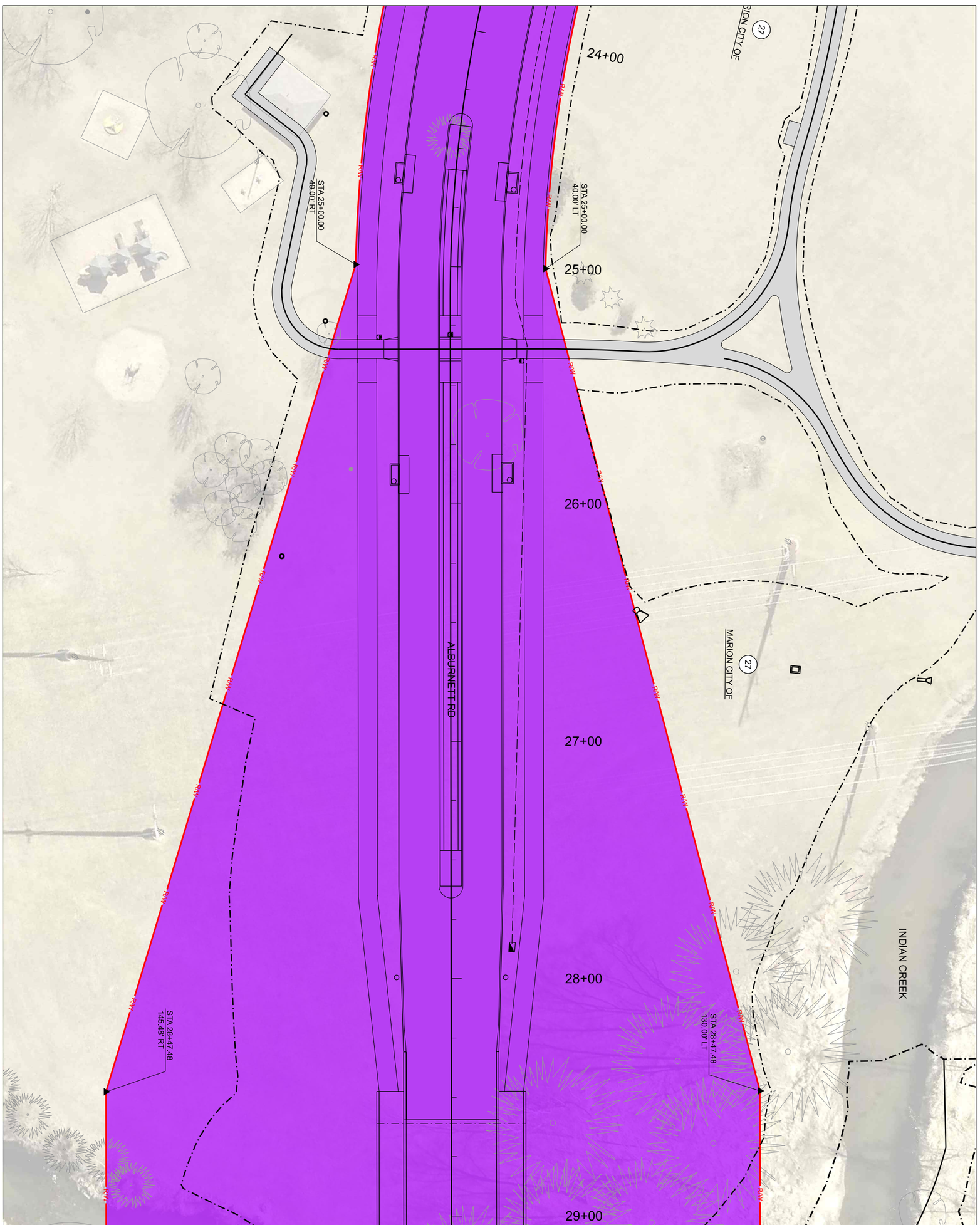
RIGHT-OF-WAY

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Project No: 116.0663

Sheet H.5



Sheet H.6 | Project No: 116.0663

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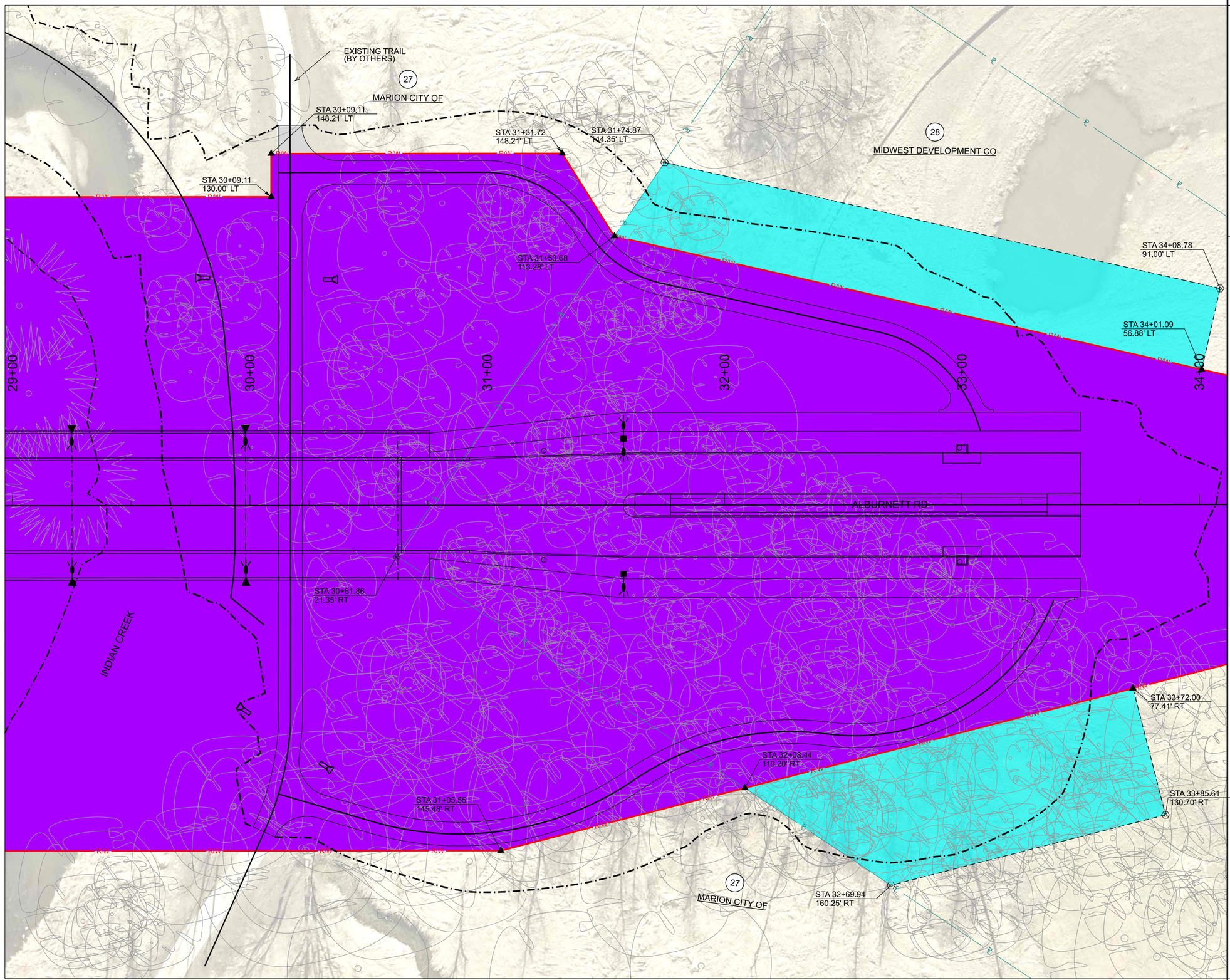
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RIGHT-OF-WAY

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		5/13/2026	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:
Project No: 116.0663		Sheet H.6	



LEGEND

- R/W — EXISTING RIGHT OF WAY
- R/W — PROPOSED RIGHT OF WAY
- ℄ — EXISTING PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED TEMPORARY EASEMENT AREA
- PROPOSED RIGHT-OF-WAY ACQUISITION AREA
- PROPOSED PERMANENT EASEMENT AREA
- △ EXISTING RIGHT OF WAY
- ⬠ TEMPORARY CONSTRUCTION EASEMENT
- ▲ PROPOSED RIGHT OF WAY
- ⬢ PERMANENT EASEMENT

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/12/2026

Project No: 116.0663

Sheet H.7

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RIGHT-OF-WAY

CITY OF MARION, IOWA

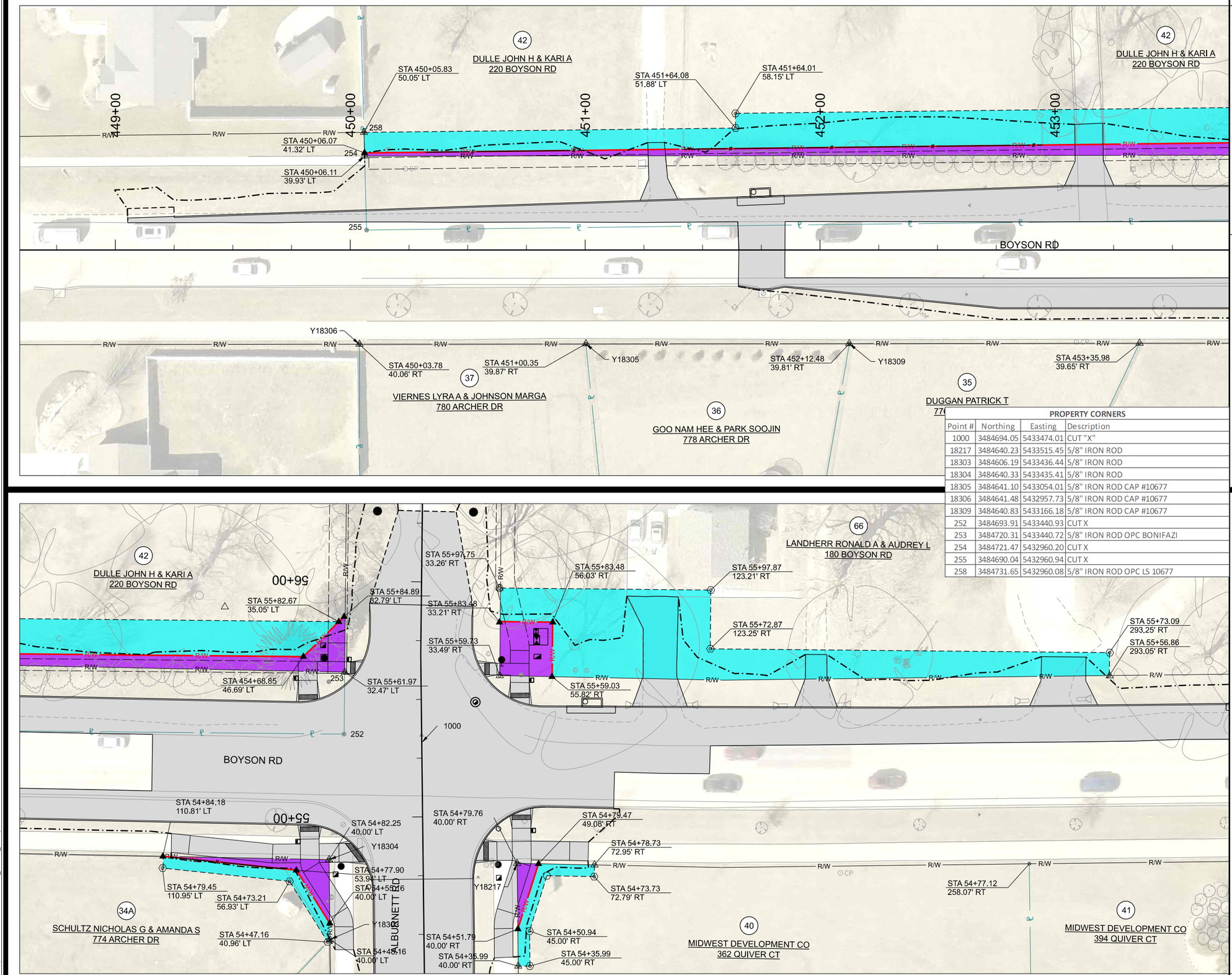
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Project No: 116.0663

Sheet H.7

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LEGEND

- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED TEMPORARY EASEMENT AREA
- PROPOSED RIGHT-OF-WAY ACQUISITION AREA
- PROPOSED PERMANENT EASEMENT AREA
- EXISTING RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT OF WAY
- PERMANENT EASEMENT

PROPERTY CORNERS

Point #	Northing	Easting	Description
1000	3484694.05	5433474.01	CUT "X"
18217	3484640.23	5433515.45	5/8" IRON ROD
18303	3484606.19	5433436.44	5/8" IRON ROD
18304	3484640.33	5433435.41	5/8" IRON ROD
18305	3484641.10	5433054.01	5/8" IRON ROD CAP #10677
18306	3484641.48	5432957.73	5/8" IRON ROD CAP #10677
18309	3484640.83	5433166.18	5/8" IRON ROD CAP #10677
252	3484693.91	5433440.93	CUT X
253	3484720.31	5433440.72	5/8" IRON ROD OPC BONIFAZI
254	3484721.47	5432960.20	CUT X
255	3484690.04	5432960.94	CUT X
258	3484731.65	5432960.08	5/8" IRON ROD OPC LS 10677

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk.:
Technician: KMM | Date: 5/8/2026 | Pg.:

Project No: 116.0663

Sheet H.8

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RIGHT-OF-WAY

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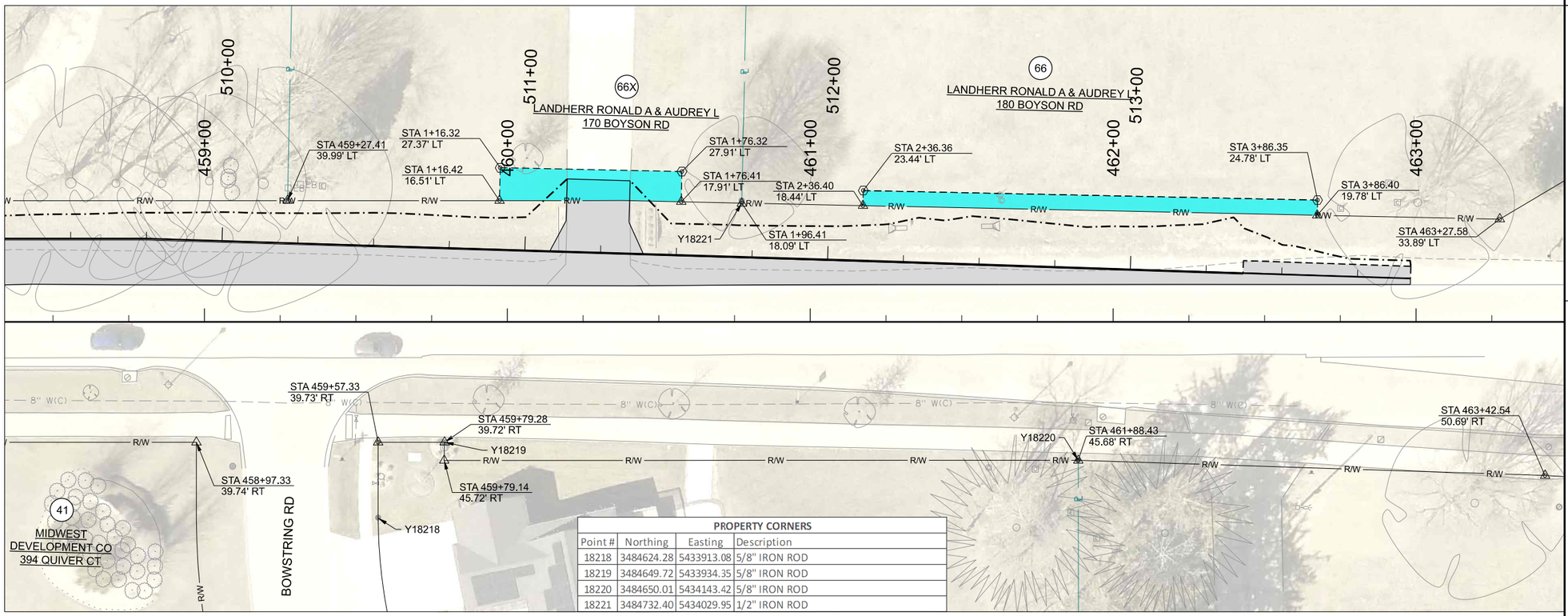
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Project No: 116.0663

Sheet H.8

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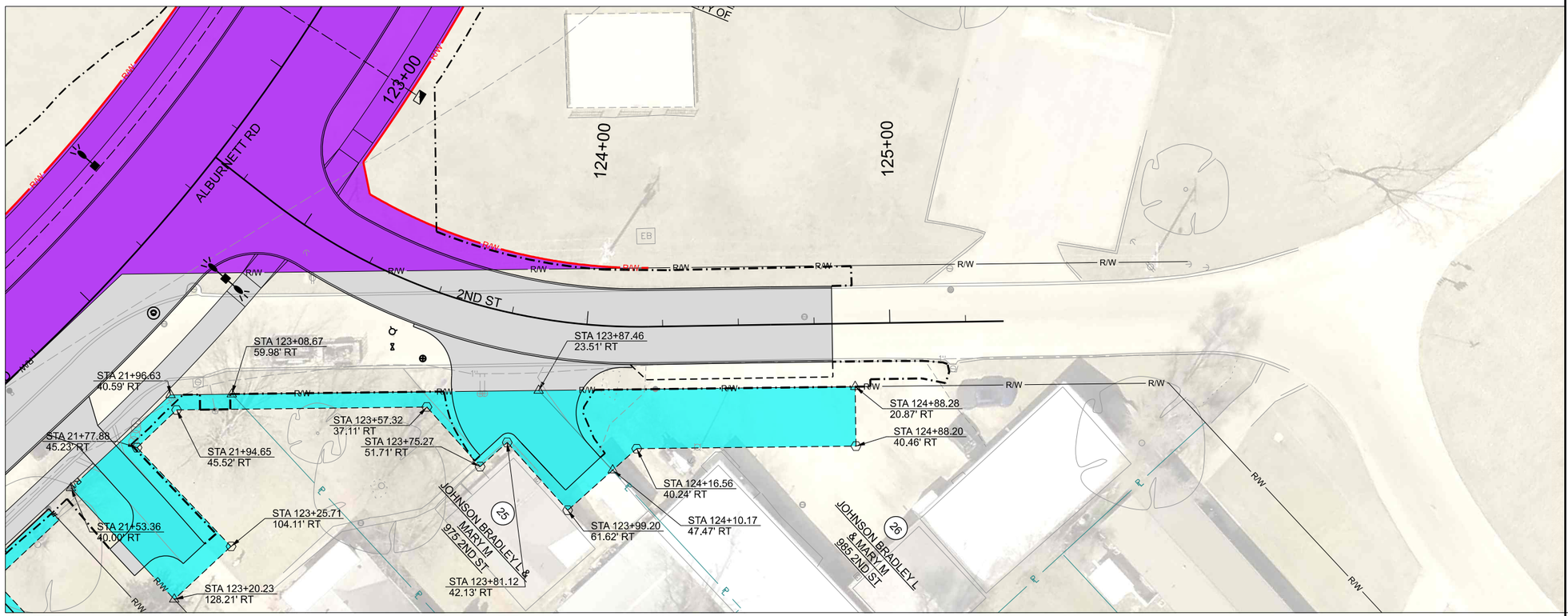
PROPERTY CORNERS

Point #	Northing	Easting	Description
18218	3484624.28	5433913.08	5/8" IRON ROD
18219	3484649.72	5433934.35	5/8" IRON ROD
18220	3484650.01	5434143.42	5/8" IRON ROD
18221	3484732.40	5434029.95	1/2" IRON ROD

LEGEND

- R/W — EXISTING RIGHT OF WAY
- R/W — PROPOSED RIGHT OF WAY
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- TEMPORARY CONSTRUCTION EASEMENT
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- △ EXISTING RIGHT OF WAY
- ⬠ TEMPORARY CONSTRUCTION EASEMENT
- ▲ PROPOSED RIGHT OF WAY
- ⬟ PERMANENT EASEMENT

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet H.9

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RIGHT-OF-WAY

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Project No: 116.0663

Sheet H.9

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TRAFFIC CONTROL NOTES

1. Major stages of construction are shown in the Staging and Traffic Control Plan. Proposed changes to the staging plan must be reviewed and approved by the Engineer at least one week before changes are made in the field. The Contractor is responsible for providing detailed traffic control plans to the Engineer for all stages of work. Written notice shall be provided to the Engineer at least 3 working days in advance of roadway closures and stage transitions.

2. Traffic control shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD), the traffic control plan sheets, and the "TC" series of the Standard Road Plans.

3. Furnish and install all traffic control devices and maintain in correct position. Promptly clean and replace damaged traffic control devices. Patrol work areas daily (at a minimum) to ensure all traffic control devices are properly set, in serviceable condition and legible.

4. All permanent pavement markings and signing shall be installed prior to opening roadways to traffic, unless otherwise noted.

5. Within the traffic control zones, remove or cover conflicting permanent signage. Deliver removed signs and posts to the City Public Works Department. Removal of existing pavement markings in conflict with temporary traffic control features or new pavement markings shall be by a method approved by the Engineer.

6. Place portable dynamic message signs (PDMS) at locations noted five (5) working days in advance of commencement of work. Coordinate scheduled start date and date of PDMS placement with the Engineer. PDMS shall remain in place until the work begins. If Contractor delays start of work, PDMS are to be maintained including adjustments to messaging and no additional days will be counted for delays.

   Locations:
   - Prior to Stage 3:
     - 8th Ave east of Indian Creek (eastbound)
     - 8th Ave west of 3rd Street (westbound)
   - Prior to Stage 6:
     - Marion Blvd east of 1st Street (eastbound)
     - 7th Ave west of 7th Street (westbound)
   - Prior to Stage 10:
     - Boyson Rd east of Bowman Meadows Dr (eastbound)
     - Boyson Rd west of Central Ave (westbound)

   Message: WORK STARTING [DATE] EXPECT DELAYS

7. Coordinate traffic control and detour routes with other projects in the area and within or adjacent to detour routes.

8. Maintain minimum 11' lanes plus 1' for traffic control devices during construction.

9. All construction and staging areas shall be closed off using construction fence material except during normal working hours at locations of construction site access. Construction site access locations shall be completely closed off using construction fence at each end of day and during weekends and holidays.

10. Changes to traffic signal timings, phasing, and covering conflicting signal heads may be necessary for various staging and traffic control plans. Contact the Engineer at least one week in advance of staging changes. Signal timing and phasing changes must be made by the City.

11. The spacing of all signs and the distances between signs shown in the plan shall meet the requirements of the MUTCD. If the minimum spacing between signs cannot be maintained, the sign locations shall be adjusted to provide the largest spacing available.

12. Location for storage of equipment and materials by the contractor during non-working hours shall be approved by the Engineer. Excavations, equipment, and materials within the work zone shall be protected by barricades at all times. Equipment and materials shall be staged to avoid blocking sight distance at intersections and driveways.

13. Contractor shall determine appropriate pavement removal limits to complete phased pavement construction. Removal limits shall not conflict with minimum required lane widths and work zone buffers.

14. All temporary barrier rails shall be placed in accordance with BA-401 and anchored accordingly.

PROPERTY ACCESS NOTES

1. Property owners shall be provided access during construction at all times except as noted in the plans. Access impacts must be coordinated with individual property owners and residents.

2. Consecutive access points serving the same business shall not be closed concurrently.

3. The Contractor shall be responsible to collect refuse from each impacted property owner's standard pick-up site and deliver refuse to a location designated by private pickup or facilitate (provide access) for refuse pick-up at its current location. This shall be designated for each phase of construction. Coordinate with the refuse collection service and property owners.

4. Coordinate or make accommodations in the construction area for mail and parcel delivery service, parking, driveway, and emergency vehicle access.

5. Notify all property owners and residents/business owners a minimum of one week (but not more than two weeks) prior to commencing construction adjacent to the property. Work will not begin unless notification has been provided in accordance with these contract documents. Notification shall be provided using doorhangers pre-approved by the Engineer prior to distribution and shall include the following information:
   a. Contractor's name and emergency contact phone numbers.
   b. Description of Contractor's activities
   c. Date of construction activities in the area
   d. Estimated duration of construction activities in the area
   e. Description/location of available residential and business parking
   f. Information regarding garbage collection (Note: Contractor shall not require/request residents/businesses to set out garbage at locations which may cause undue hardships)
   g. Information regarding any impacts to postal delivery

SIDEWALK NOTES

1. Pedestrian paths within construction limits shall be closed during construction. Type II barricades meeting the requirements of NCHRP Report 350 must be installed that extends the full width of the closed pedestrian path. The top rail of the barricades is to be 36 to 42 inches above the pedestrian path surface. The top rail of the barricades is parallel to the bottom rail and situated to allow pedestrians to use the rail as a guide for their hand. The toe on the barricades must have a minimum sight distance restrictions for road users. The Contractor must provide 10 calendar days in advance of pedestrian path closures to Iowa Department of the Blind: Director's Office, telephone: 515-281-1336, website: www.blind.state.is.us and National Federation of the Blind of Iowa: President, telephone: 319-321-8769, email address: donna.prime@nfb.org and the Engineer.

2. As applicable, the following requirements apply for signing alternative routes for sidewalks closed during construction:
   a. An alternative route is signed
   b. Alternative routes for closed ADA compliant sidewalks shall be ADA compliant
   c. Alternative routes for closing sidewalks that are not ADA compliant shall provide, at a minimum, the same accessibility as the closed sidewalk.

3. Except when contract operations are occurring within sidewalk areas, pedestrian traffic shall be maintained through workspaces or traffic control zones during the project. The contractor shall provide appropriate signage for sidewalk closures.

4. Obtain sidewalk traffic control approval from the City prior to implementation.

5. Sidewalk traffic control shall remain in place until sidewalks are replaced and accessible.

6. Provide at least one ADA accessible route to commercial buildings at all times.

7. The cost for sidewalk accommodations is incidental to the cost of traffic control.

STAGING NOTES

1. The traffic control and staging plans are not intended to confine the Contractor's activities to the areas of suggested stages alone. It is understood that various steps included herein may occur simultaneously. The Contractor may conduct several operations concurrently, if traffic is maintained and these operations do not conflict with the staging indicated herein, other operations of this project, and other construction activities.

2. As long as work remains on the project, the contractor shall remain on the project. If issues exist within a stage of the project which are beyond the Contractor's control (such as obstructions or utility issues), the City has the option to revise the Contract staging and direct the Contractor to work on other "unaffected" stages or areas of the project as shown within the Contract Documents, at no additional cost to the Owner. The Owner may, at their discretion, provide additional days to the Contractor based upon relocation efforts and scheduling justification.

3. Once work within a stage has commenced, the Contractor shall continue work within that stage until all work within that stage has been completed. If work within that stage is not completed and the Contractor removes the "normal" size crew (and/or equipment) from the project without written authorization from the Owner, working days shall continue to be charged in accordance with Standard Specifications Section 1108.

TRAFFIC CONTROL PLAN

1. Work impacting traffic on Marion Blvd and 7th Ave shall not take place at the same time as work impacting traffic on 8th Ave.

2. At least one lane in each direction shall be maintained on Marion Blvd/7th Ave at all times.

3. Maintain two-way traffic on 8th Ave at all times. Temporary traffic signals may be used on 8th Ave as shown in the plans to maintain traffic.

4. Provide business signage as noted for impacted business accesses on Marion Blvd and 7th Ave.

5. Maintain two-way traffic on Boyson Rd at all times. Temporary traffic signals may be used on Boyson Rd as shown in the plans to maintain traffic.

6. Close the Indian Creek Trail during Stage 1 including trail closure signage at the Boyson Trail and at Lininger Park.

7. Maintain access to the Grant Wood Trail at all times.

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS
Technician: KMM | Date: 5/8/2026 | T-R-S:

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Project No: 116.0663 | Sheet J.1

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - NOTES

CITY OF MARION, IOWA

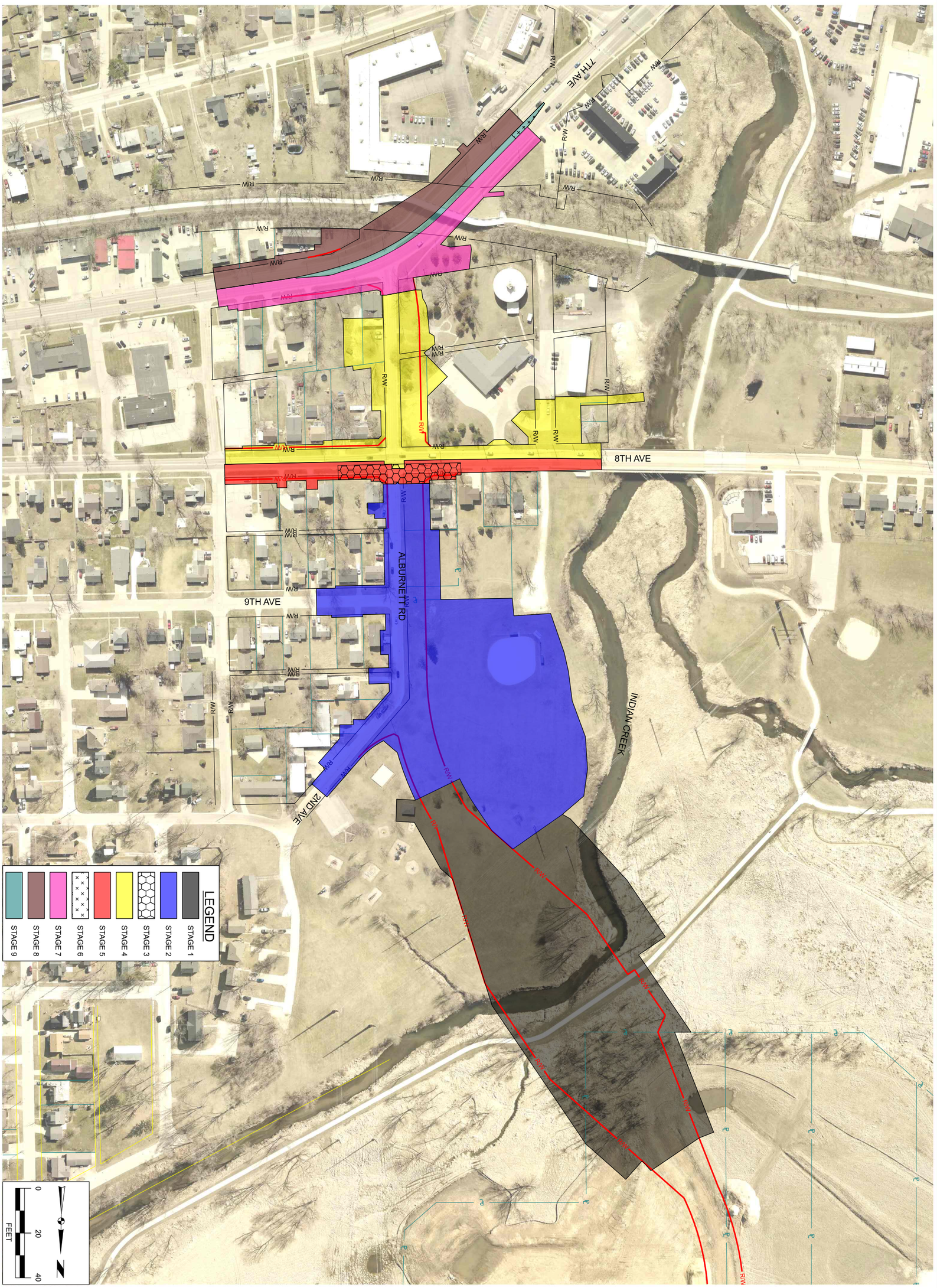
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Project No: 116.0663

Sheet J.1

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Sheet J.2

Project No: 116.0663

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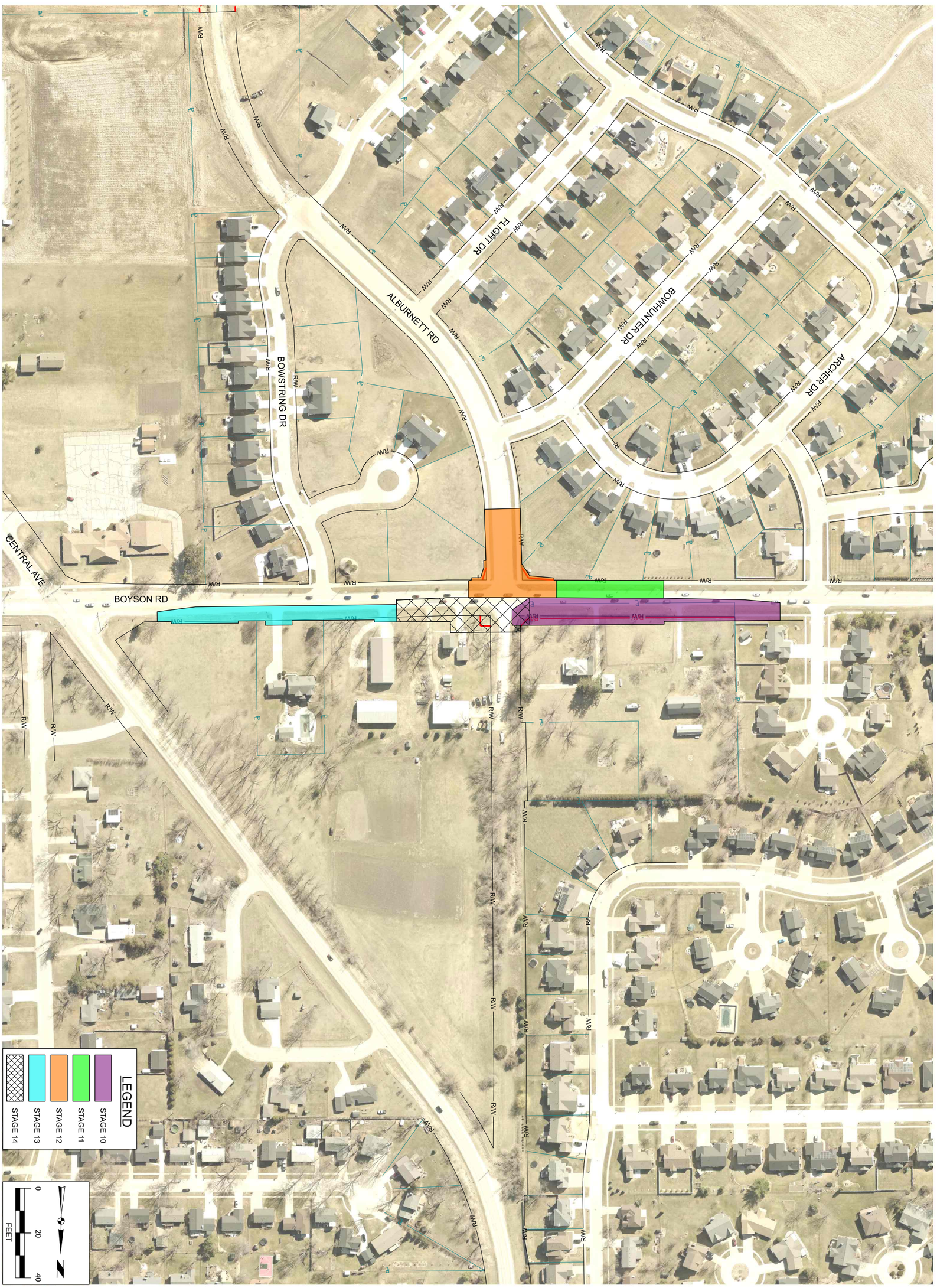
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - OVERALL

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
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Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663		Sheet	J.2



Sheet J.3 | Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - OVERALL

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.3		



R11-4
60"x30"
with Type III Barricade



R11-2
48"x30"
With Type III Barricade



R11-2 (MODIFIED)
48"x30"
With Type III Barricade



W20-1
36"x36"
(Typ.)



W20-3
36"x36"
(Typ.)



W20-4
36"X36"



W20-5
36"X36"



W24-1
36"X36"



W1-4
36"X36"



W3-3
36"X36"



W4-2
36"X36"



R3-1
36"X36"



R3-2
36"X36"



R4-7
24"X30"



R5-1
36"X36"



R8-3a
24"X30"



R10-6
24"X36"



G20-2
36"X18"

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/8/2026 | Sheet J.4

Project No: 116.0663

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - SIGN DETAILS

CITY OF MARION, IOWA

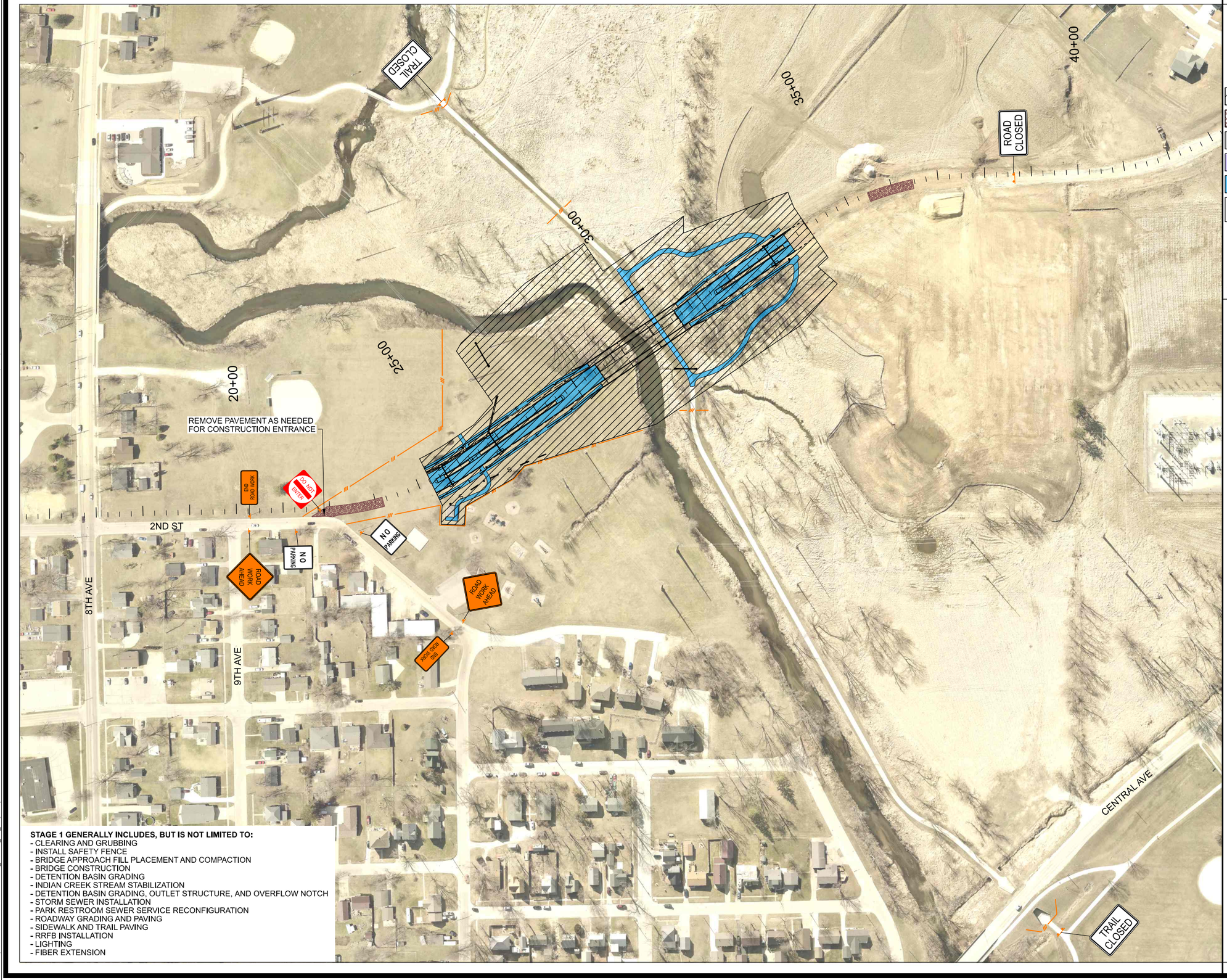
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Project No: 116.0663

Sheet J.4

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STAGE 1 GENERALLY INCLUDES, BUT IS NOT LIMITED TO:
- CLEARING AND GRUBBING
- INSTALL SAFETY FENCE
- BRIDGE APPROACH FILL PLACEMENT AND COMPACTION
- BRIDGE CONSTRUCTION
- DETENTION BASIN GRADING
- INDIAN CREEK STREAM STABILIZATION
- DETENTION BASIN GRADING, OUTLET STRUCTURE, AND OVERFLOW NOTCH
- STORM SEWER INSTALLATION
- PARK RESTROOM SEWER SERVICE RECONFIGURATION
- ROADWAY GRADING AND PAVING
- SIDEWALK AND TRAIL PAVING
- RRFB INSTALLATION
- LIGHTING
- FIBER EXTENSION

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663 | Sheet J.10

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 1

CITY OF MARION, IOWA

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Project No: 116.0663

Sheet J.10

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STAGE 2 GENERALLY INCLUDES, BUT IS NOT LIMITED TO:
- CLEARING AND GRUBBING
- INSTALL SAFETY FENCE
- STORM SEWER INSTALLATION
- WATER MAIN REPLACEMENT
- SANITARY SEWER REPLACEMENT
- ROADWAY GRADING AND PAVING
- RETAINING WALLS
- BALL FIELD REMOVAL
- SIDEWALK AND TRAIL PAVING
- DRIVEWAY RECONSTRUCTION
- LIGHTING
- FIBER EXTENSION

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS
Technician: KMM Date: 5/8/2026 T-R-S:

Project No: 116.0663 Sheet J.20

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 2

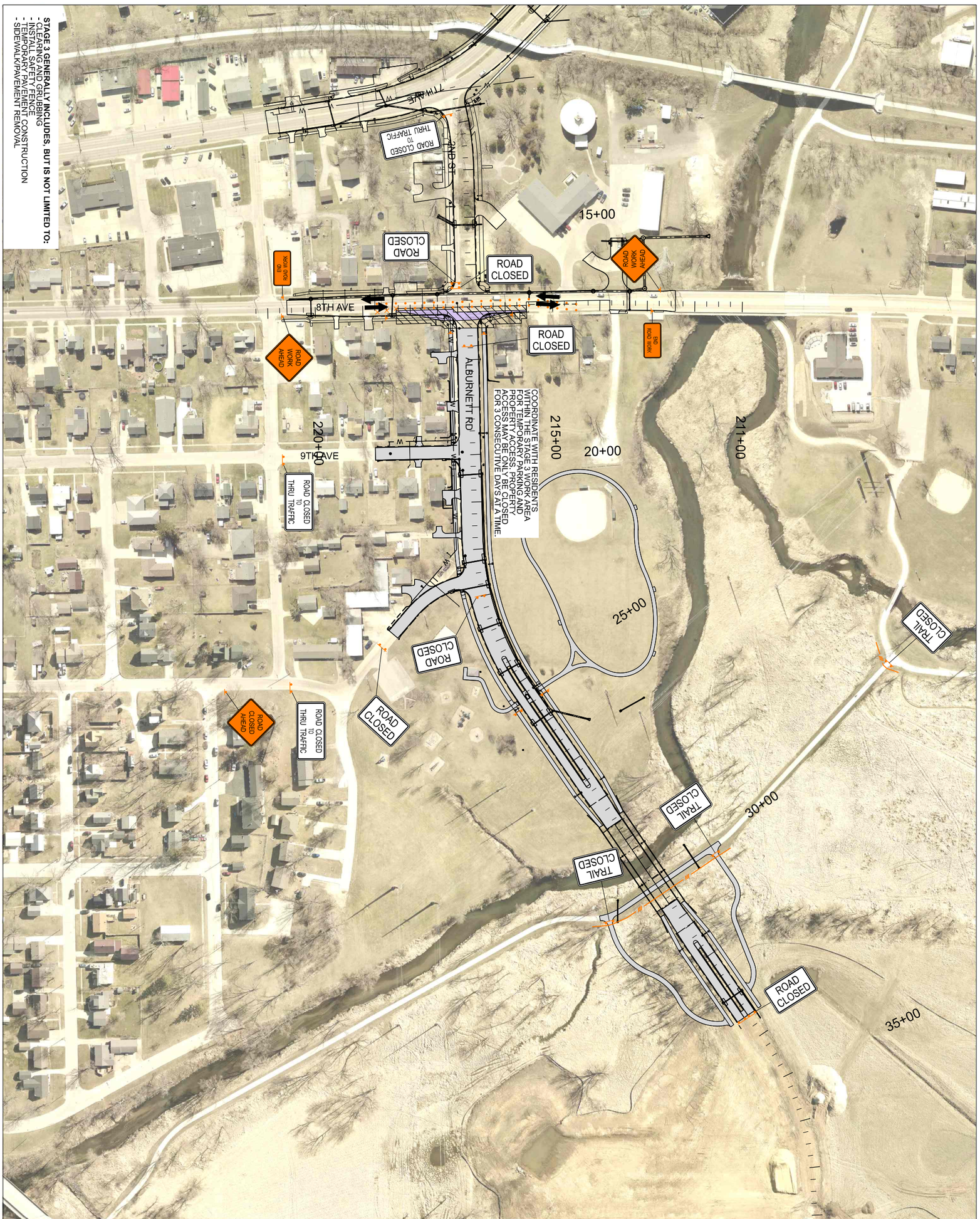
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Project No: 116.0663
Sheet J.20

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 3

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DOT PROJECT NUMBER:	HDP-4775(646)--71-57
FINAL PLANS	5/13/2026
MARK / REVISION	DATE / BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026
T-R-S:	
Project No: 116.0663	Sheet J.30

Sheet J.30
Project No: 116.0663

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/8/2026 Sheet J.31

Project No: 116.0663

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 3

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Project No: 116.0663

Sheet J.31

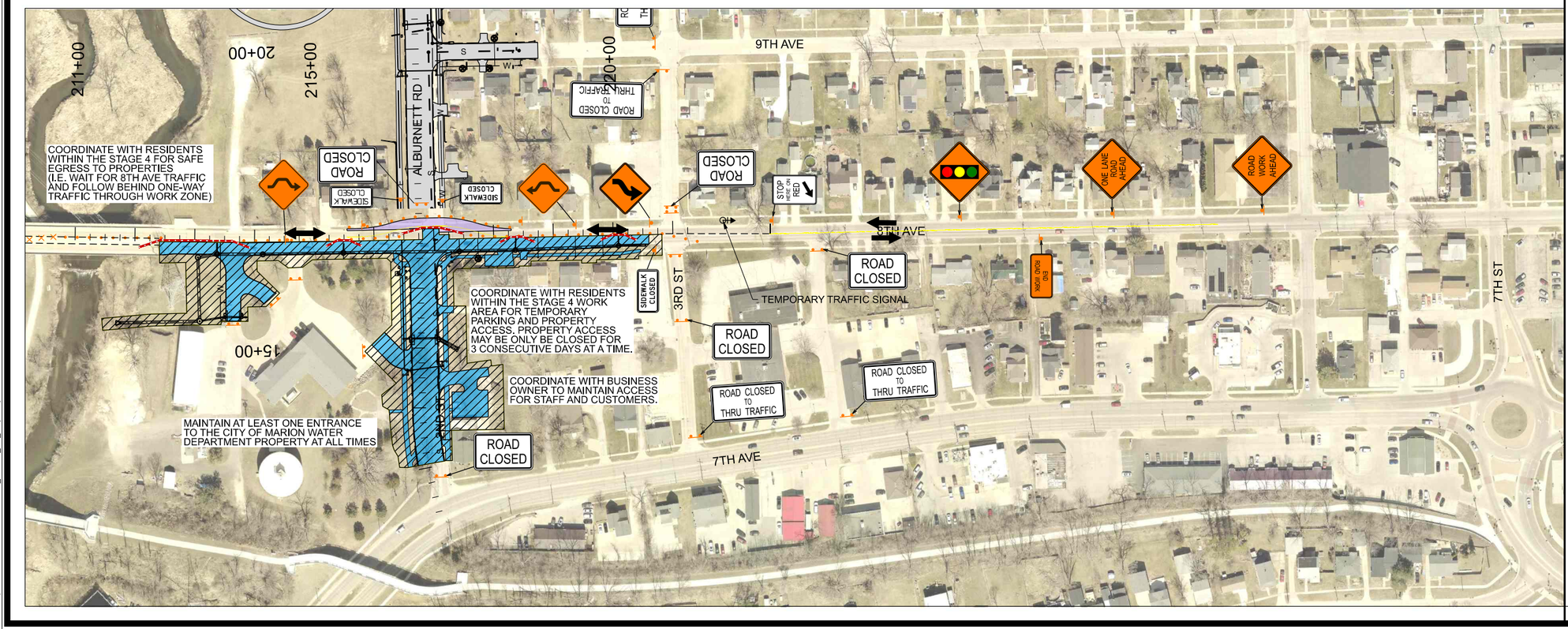
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STAGE 4 GENERALLY INCLUDES, BUT IS NOT LIMITED TO:
- CLEARING AND GRUBBING
- INSTALL SAFETY FENCE
- STORM SEWER INSTALLATION
- WATER MAIN REPLACEMENT
- SANITARY SEWER REPLACEMENT
- ROADWAY GRADING AND PAVING
- TRAFFIC SIGNAL INSTALLATION
- SIDEWALK PAVING
- DRIVEWAY RECONSTRUCTION
- LIGHTING
- FIBER EXTENSION
- BRIDGE APPROACH REPAIRS

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL



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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
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	REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663 | Sheet J.40

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

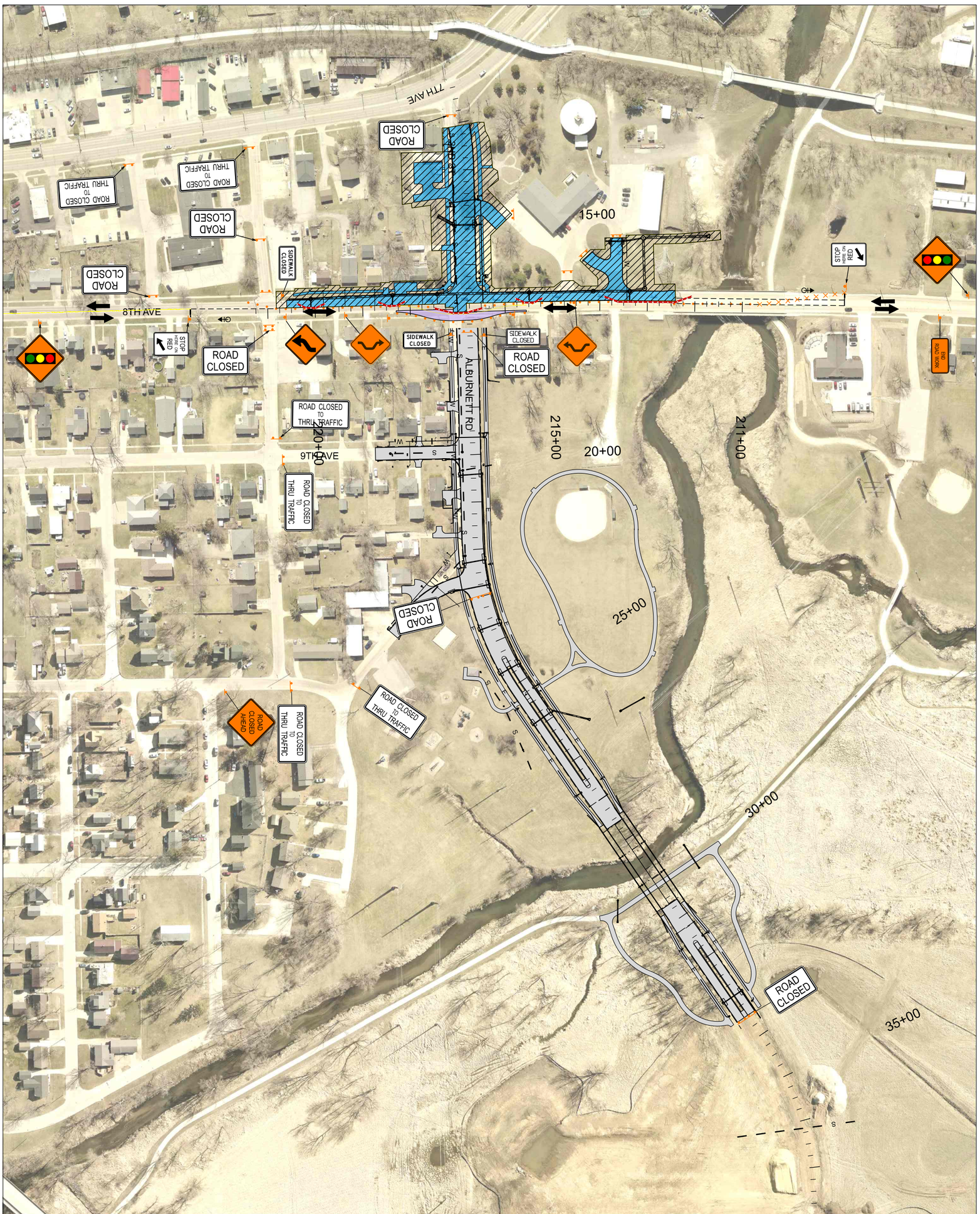
TRAFFIC CONTROL AND STAGING - STAGE 4

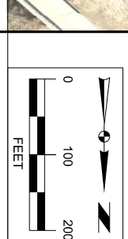
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Project No: 116.0663
Sheet J.40

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LEGEND

- TEMPORARY BARRIER RAIL
- TEMPORARY LANE SEPARATOR SYSTEM
- CONSTRUCTION FENCE
- DIRECTION OF TRAVEL
- ARROW BOARD
- PROPOSED PAVEMENT
- TEMPORARY PAVEMENT
- CONSTRUCTED IN PREVIOUS STAGE
- STABILIZED CONSTRUCTION ENTRANCE
- WORK AREA
- TYPE III BARRICADE
- DRUM
- TRAFFIC SIGN
- CHANNELIZING DEVICE

Sheet J.41 | Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 4

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.41		

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REMOVE 356 LF OF PAVEMENT MARKINGS

180 LF TEMPORARY BARRIER RAIL

26 LF SLW2

8TH AVE

20' SPACING TYP.

16'

20'-6"

REMOVE 356 LF OF PAVEMENT MARKINGS

TEMPORARY TRAFFIC SIGNAL

W

W

W

W

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
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Engineer: MGB Checked By: DMS

Technician: KMM Date: 5/8/2026 T-R-S:

Project No: 116.0663 Sheet J.42

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

TRAFFIC CONTROL AND STAGING - STAGE 4

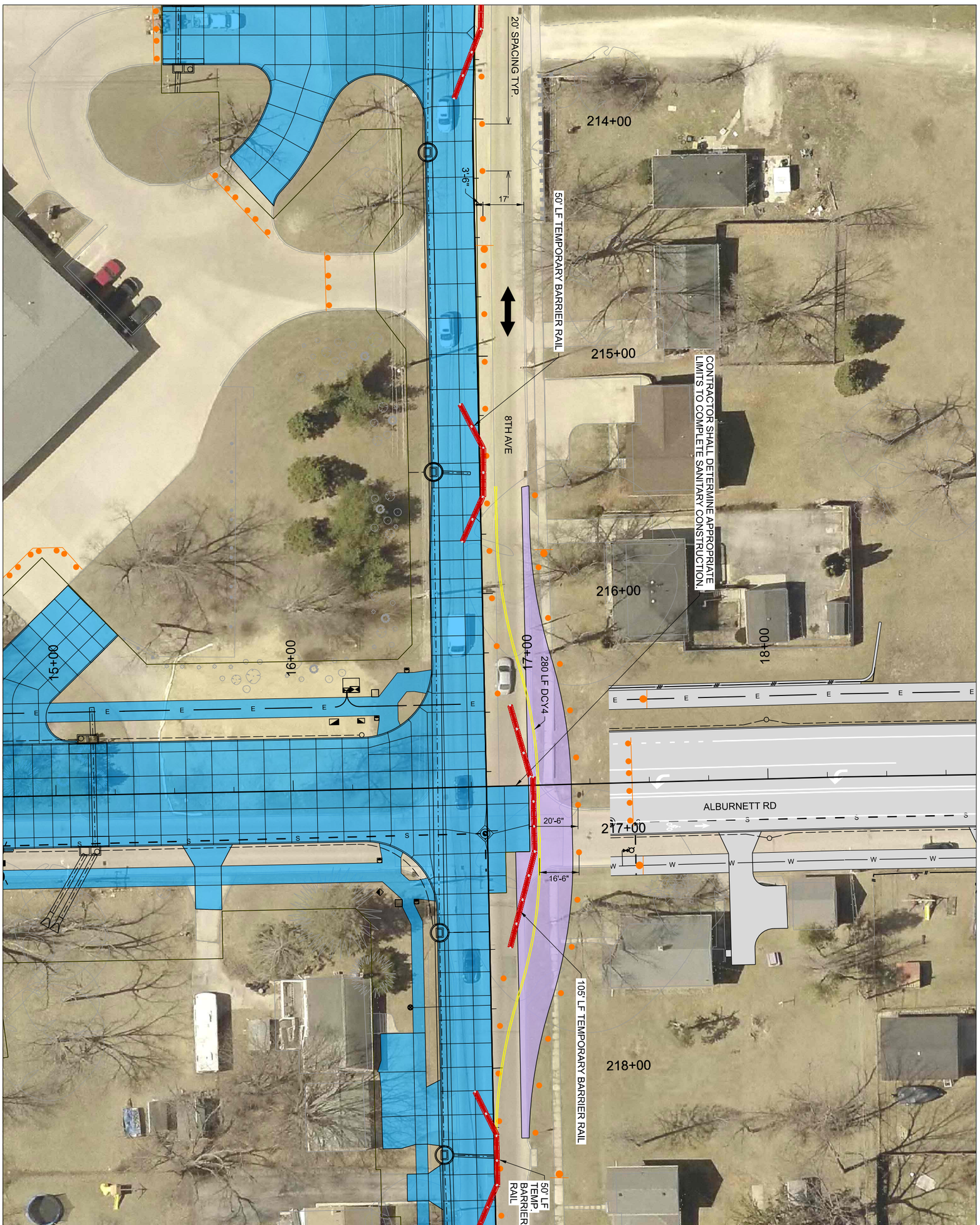
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Sheet J.42

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Sheet J.43 | Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 4

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.43		

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LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS
Technician: KMM Date: 5/8/2026 T-R-S:

Project No: 116.0663 Sheet J.44

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 4

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Sheet J.44

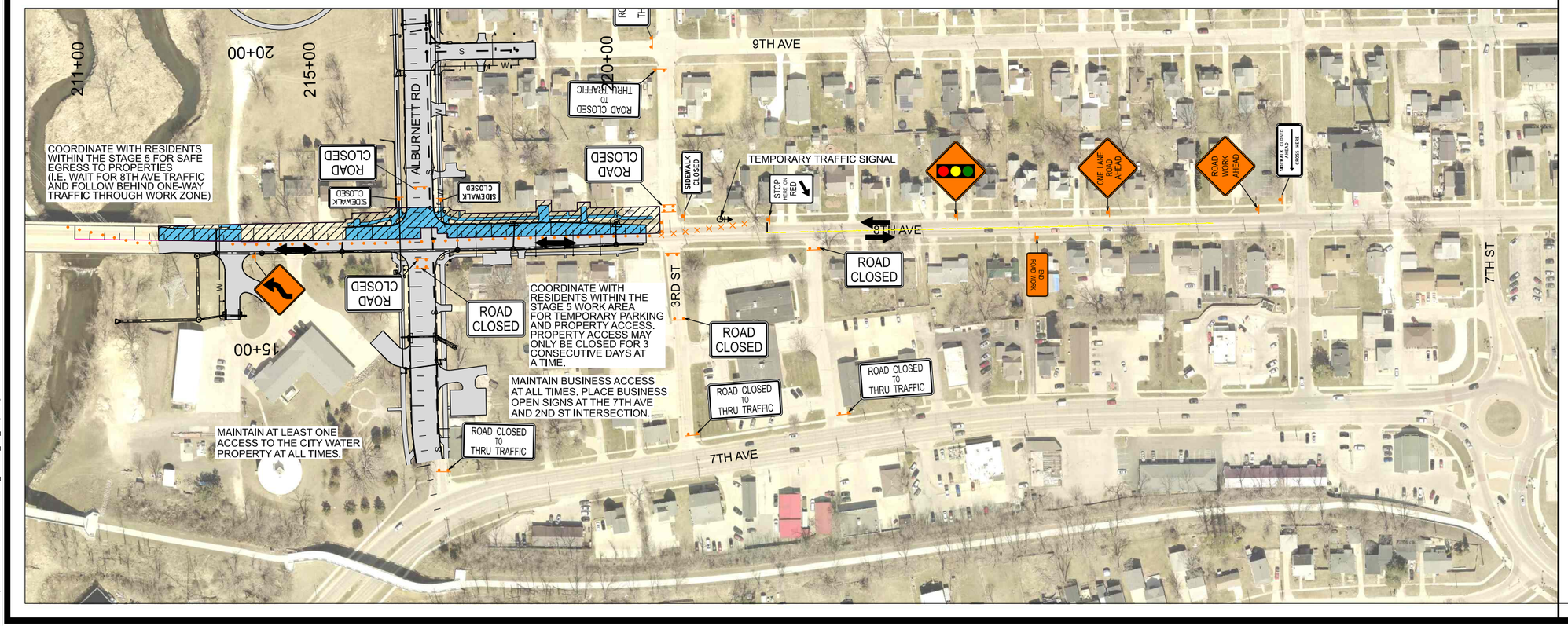
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STAGE 5 GENERALLY INCLUDES, BUT IS NOT LIMITED TO:
- CLEARING AND GRUBBING
- INSTALL SAFETY FENCE
- STORM SEWER INSTALLATION
- WATER MAIN REPLACEMENT
- SANITARY SEWER REPLACEMENT
- ROADWAY GRADING AND PAVING
- TRAFFIC SIGNAL INSTALLATION
- SIDEWALK PAVING
- DRIVEWAY RECONSTRUCTION
- LIGHTING
- FIBER EXTENSION
- BRIDGE APPROACH REPAIRS

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL



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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663 | Sheet J.50

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 5

CITY OF MARION, IOWA

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Project No: 116.0663
Sheet J.50

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Sheet J.51 | Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 5

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.51		

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS
Technician: KMM Date: 5/8/2026 T-R-S:

Project No: 116.0663 Sheet J.52

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 5

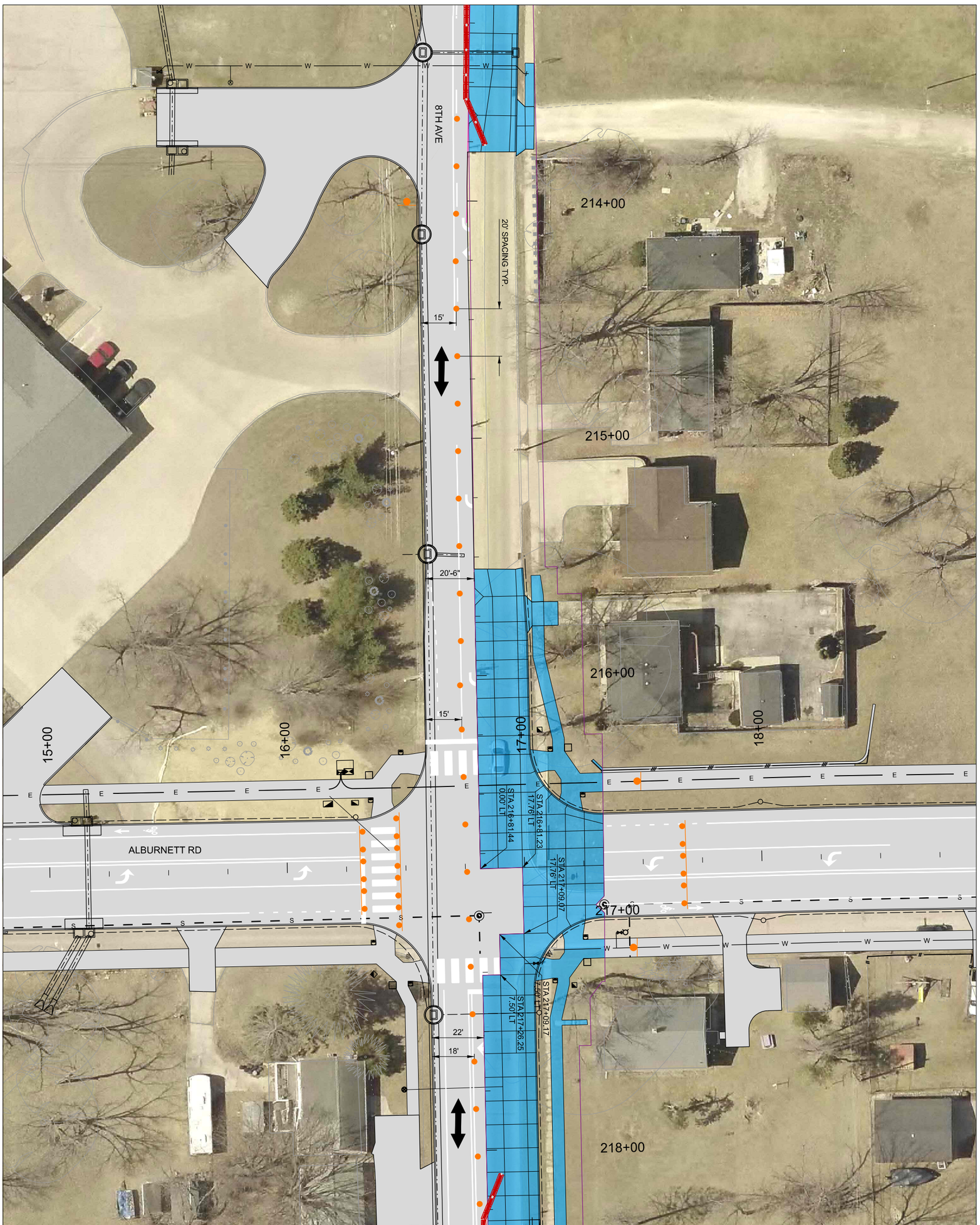
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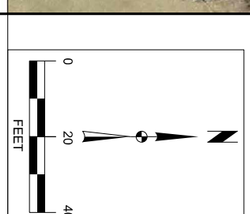
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Project No: 116.0663
Sheet J.52

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LEGEND

- TEMPORARY BARRIER RAIL
- TEMPORARY LANE SEPARATOR SYSTEM
- CONSTRUCTION FENCE
- DIRECTION OF TRAVEL
- ARROW BOARD
- PROPOSED PAVEMENT
- TEMPORARY PAVEMENT
- CONSTRUCTED IN PREVIOUS STAGE
- STABILIZED CONSTRUCTION ENTRANCE
- WORK AREA
- TYPE III BARRICADE
- TRAFFIC SIGN
- CHANNELIZING DEVICE
- DRUM

Sheet J.53

Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 5

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.53		

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LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

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FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/8/2026

Project No: 116.0663 Sheet J.54

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 5

CITY OF MARION, IOWA

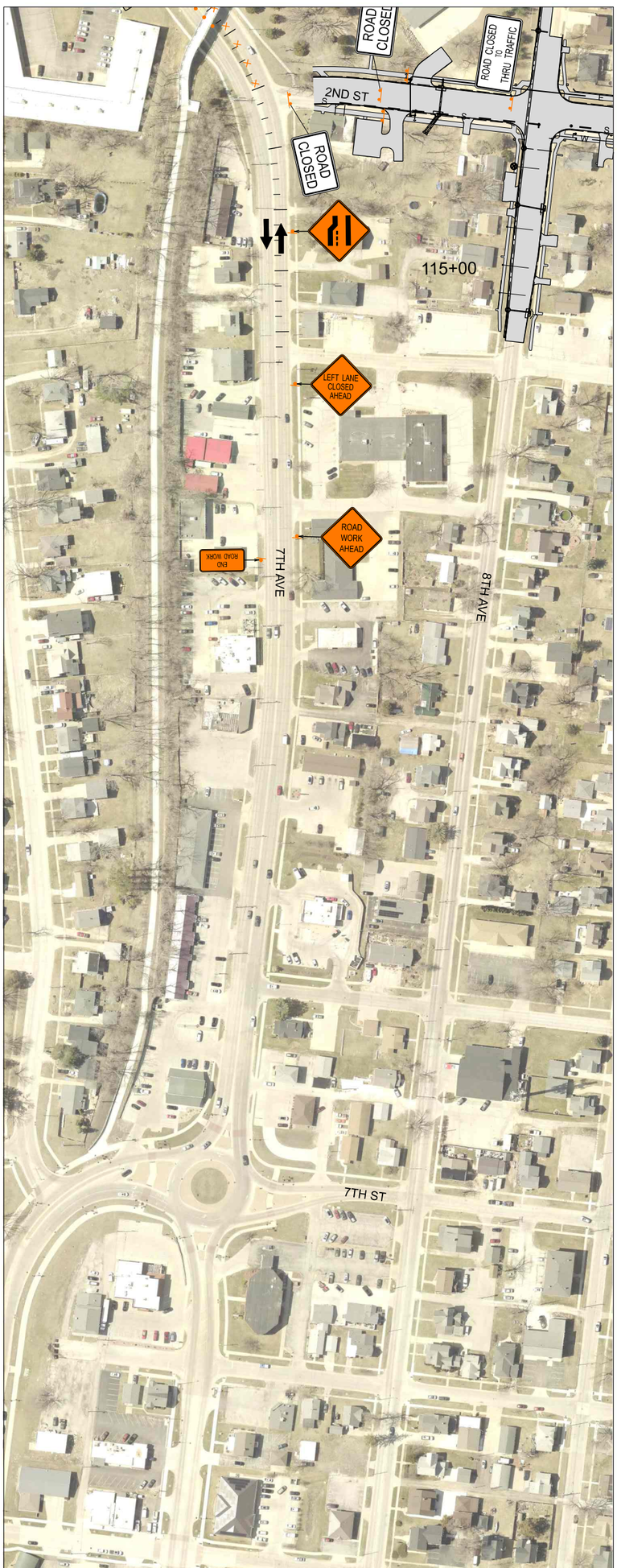
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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

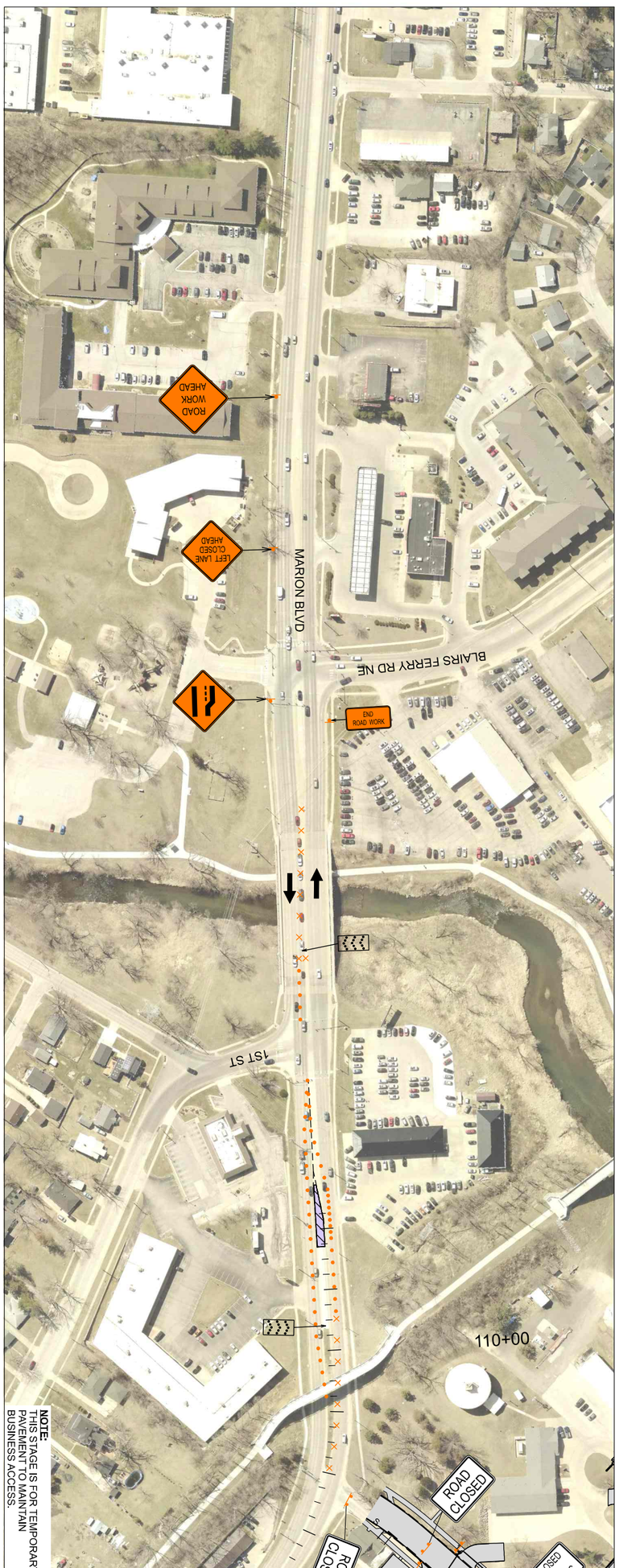
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Project No: 116.0663

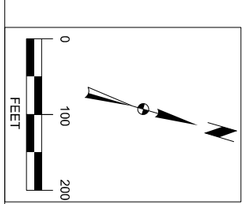
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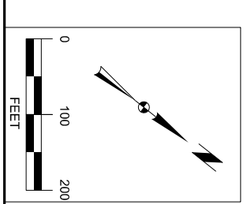
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NOTE:
THIS STAGE IS FOR TEMPORARY PAVEMENT TO MAINTAIN BUSINESS ACCESS.





LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

Sheet J.60

Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 6

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.60		

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DESCRIPTION	DATE	BY
	FINAL PLANS	5/13/2026	
	REVISION	DATE	BY

Engineer: MGB | Checked By: DMS
Technician: KMM | Date: 5/8/2026 | T-R-S:

Project No: 116.0663 | Sheet J.61

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 6

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Project No: 116.0663
Sheet J.61

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LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS

Technician: KMM Date: 5/8/2026 T-R-S:

Project No: 116.0663 Sheet J.62

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 6

CITY OF MARION, IOWA

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Project No: 116.0663

Sheet J.62

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Sheet J.63

Project No: 116.0663

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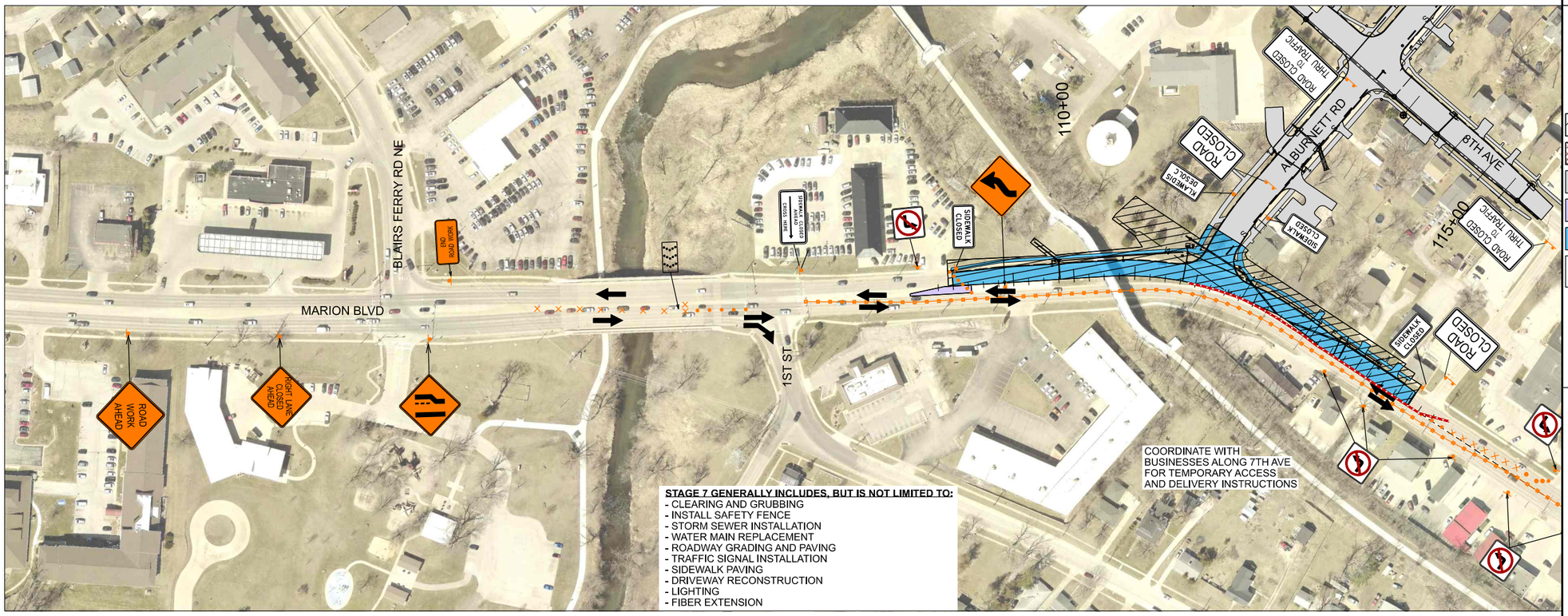
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 6

CITY OF MARION, IOWA

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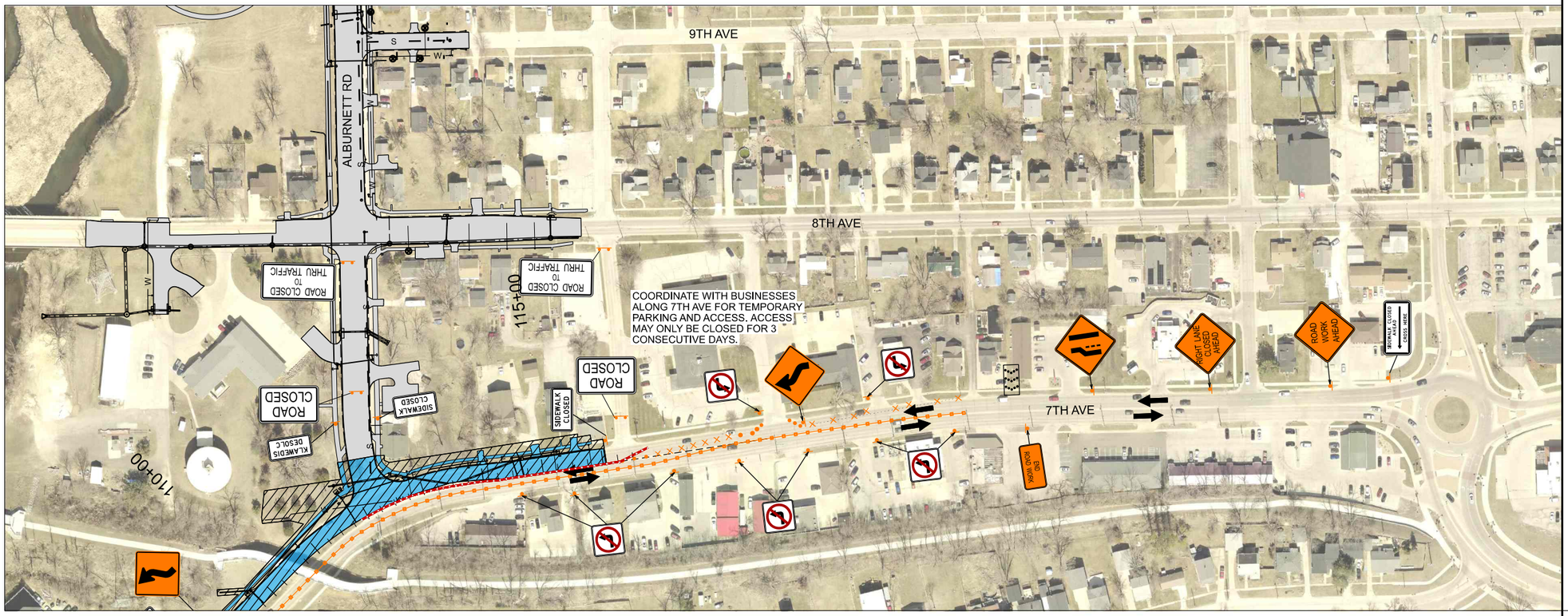
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MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.63		



LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663 | Sheet J.70

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 7

CITY OF MARION, IOWA

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Project No: 116.0663
Sheet J.70

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LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION		

Engineer: MGB Checked By: DMS
Technician: KMM Date: 5/8/2026 T-R-S:

Project No: 116.0663 Sheet J.71

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 7

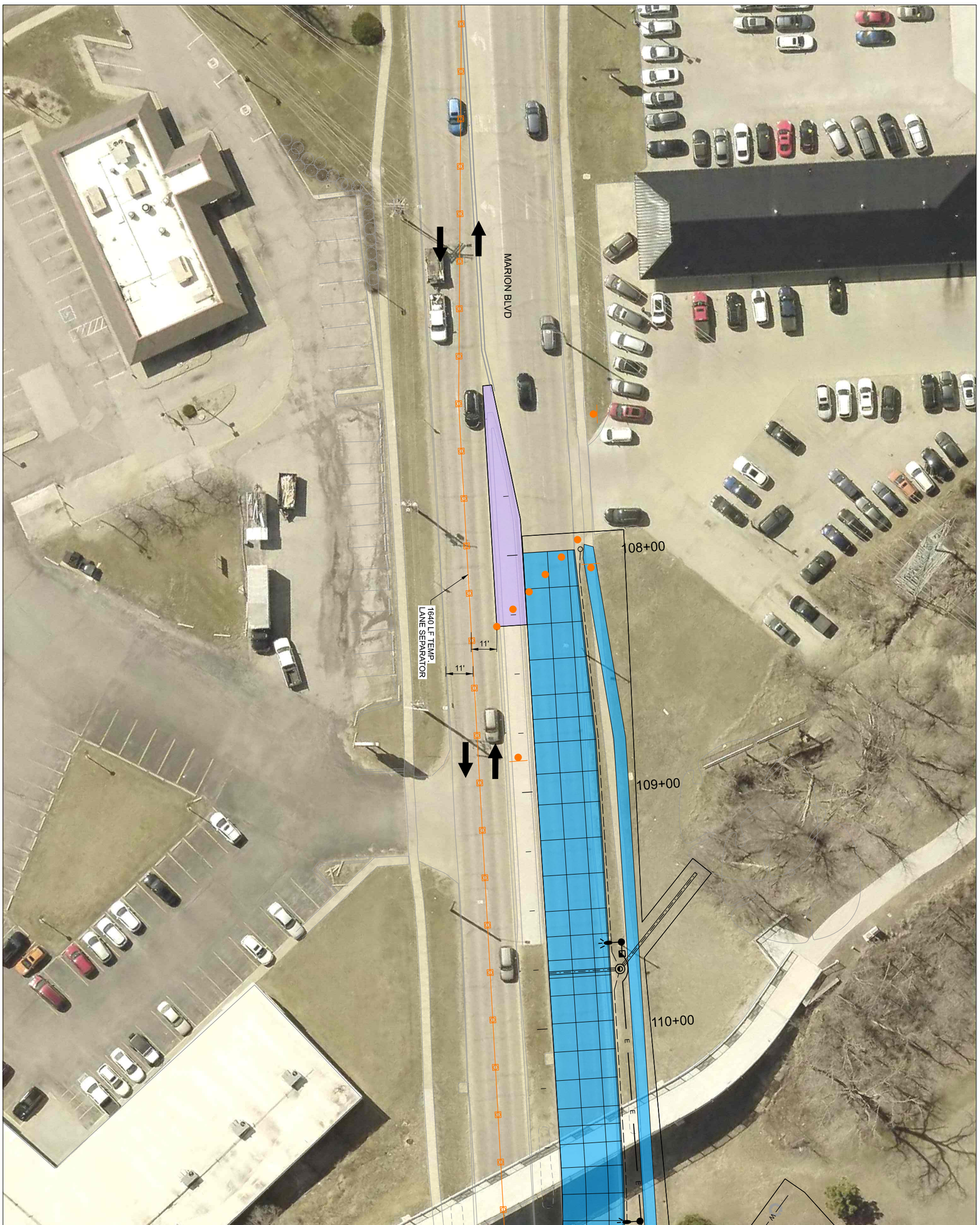
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Project No: 116.0663
Sheet J.71

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 7

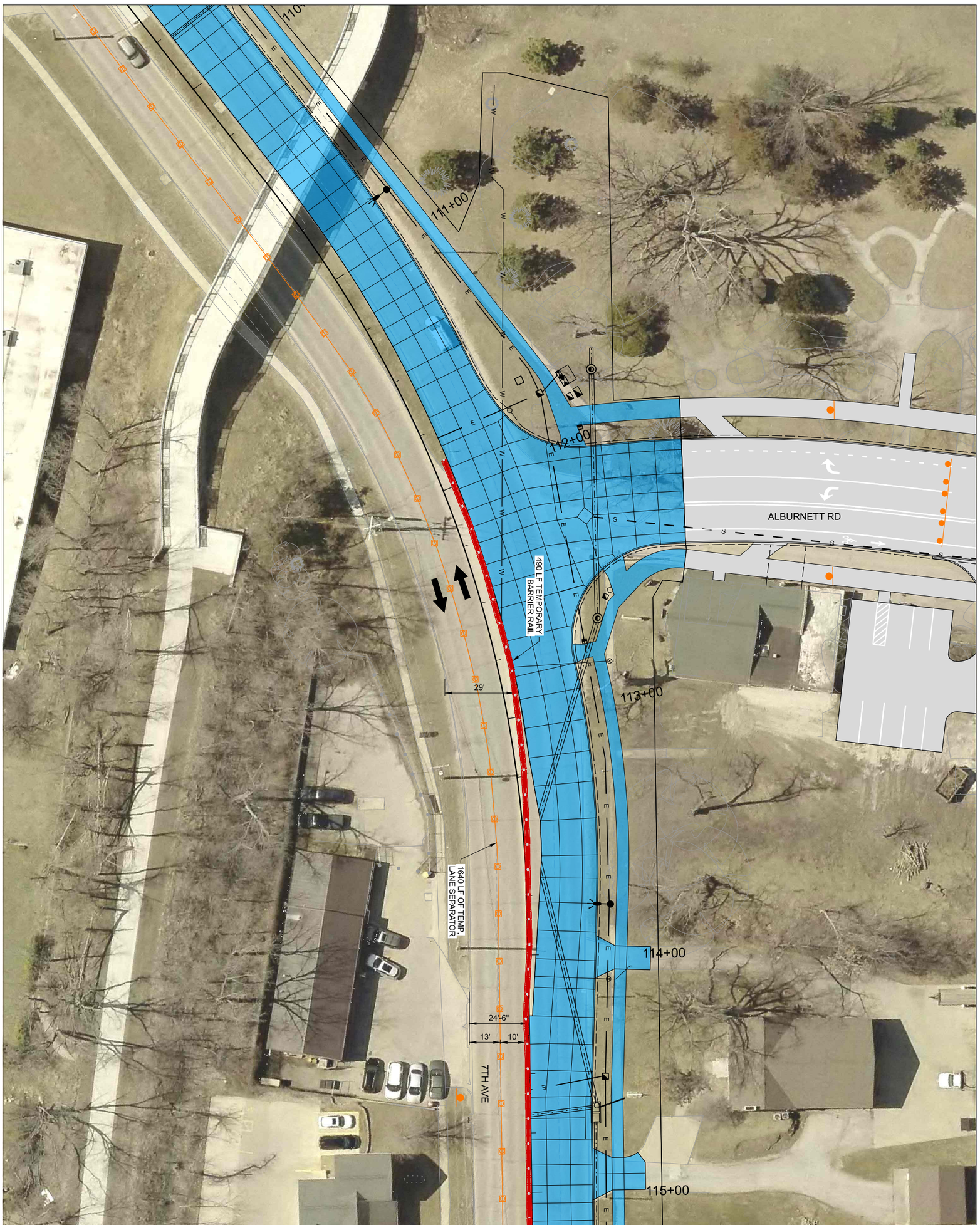
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DOT PROJECT NUMBER: HDP-4775(646)--71-57				
FINAL PLANS			5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/8/2026	T-R-S:		
Project No: 116.0663		Sheet J.72		

Sheet J.72
Project No: 116.0663



Sheet J.73 | Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 7

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.73		

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/8/2026
Project No: 116.0663 Sheet J.74

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 7

CITY OF MARION, IOWA

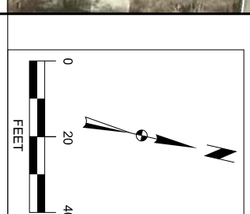
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Project No: 116.0663
Sheet J.74

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LEGEND

- CHANNELIZING DEVICE
- DRUM
- TRAFFIC SIGN
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

Sheet J.75 | Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 7 **CITY OF MARION, IOWA**

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		5/13/2026	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.75		

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
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FINAL PLANS		
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Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/8/2026 | Project No: 116.0663 | Sheet J.80

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 8

CITY OF MARION, IOWA

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Project No: 116.0663
Sheet J.80

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LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/8/2026 | Sheet J.81

Project No: 116.0663

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 8

CITY OF MARION, IOWA

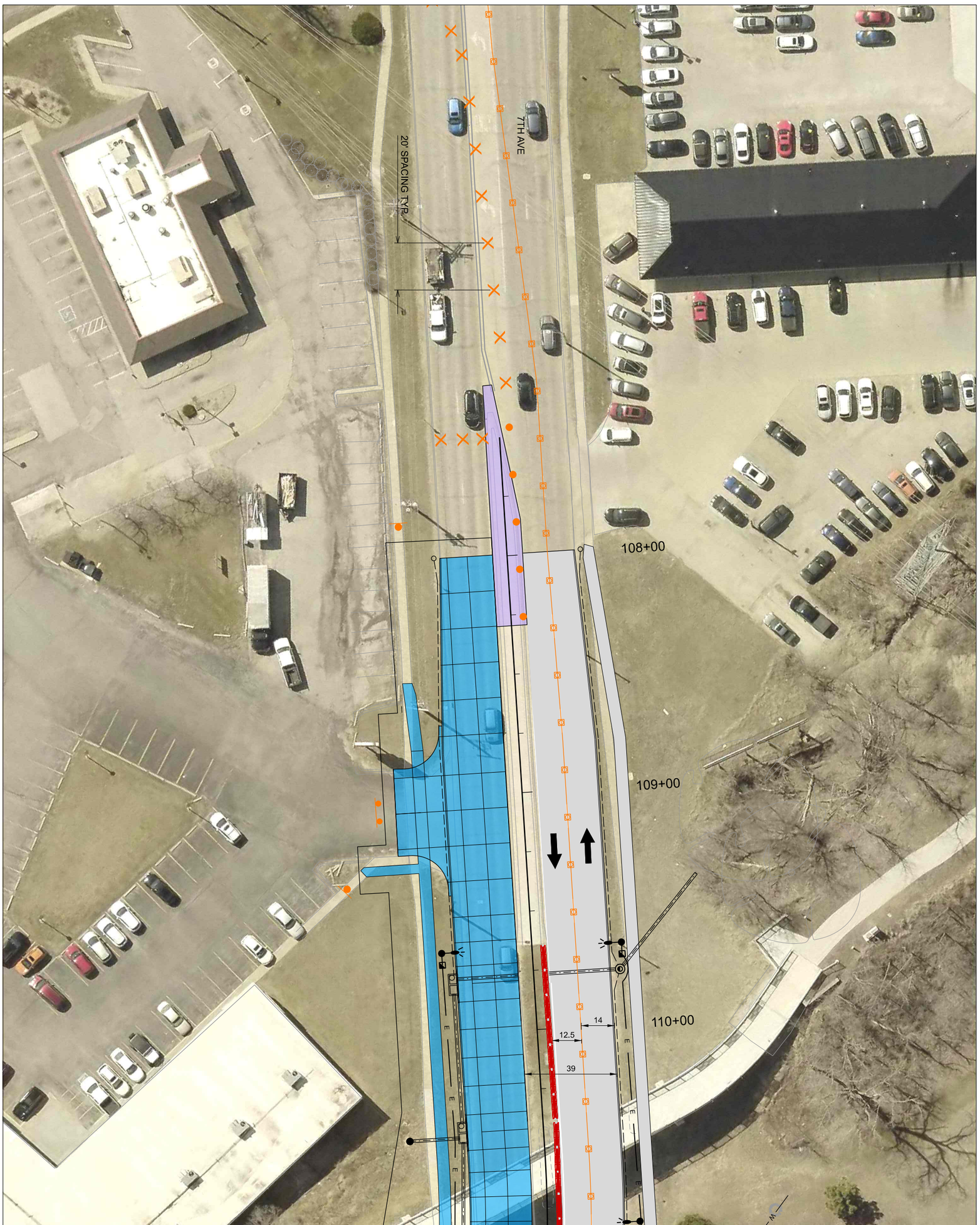
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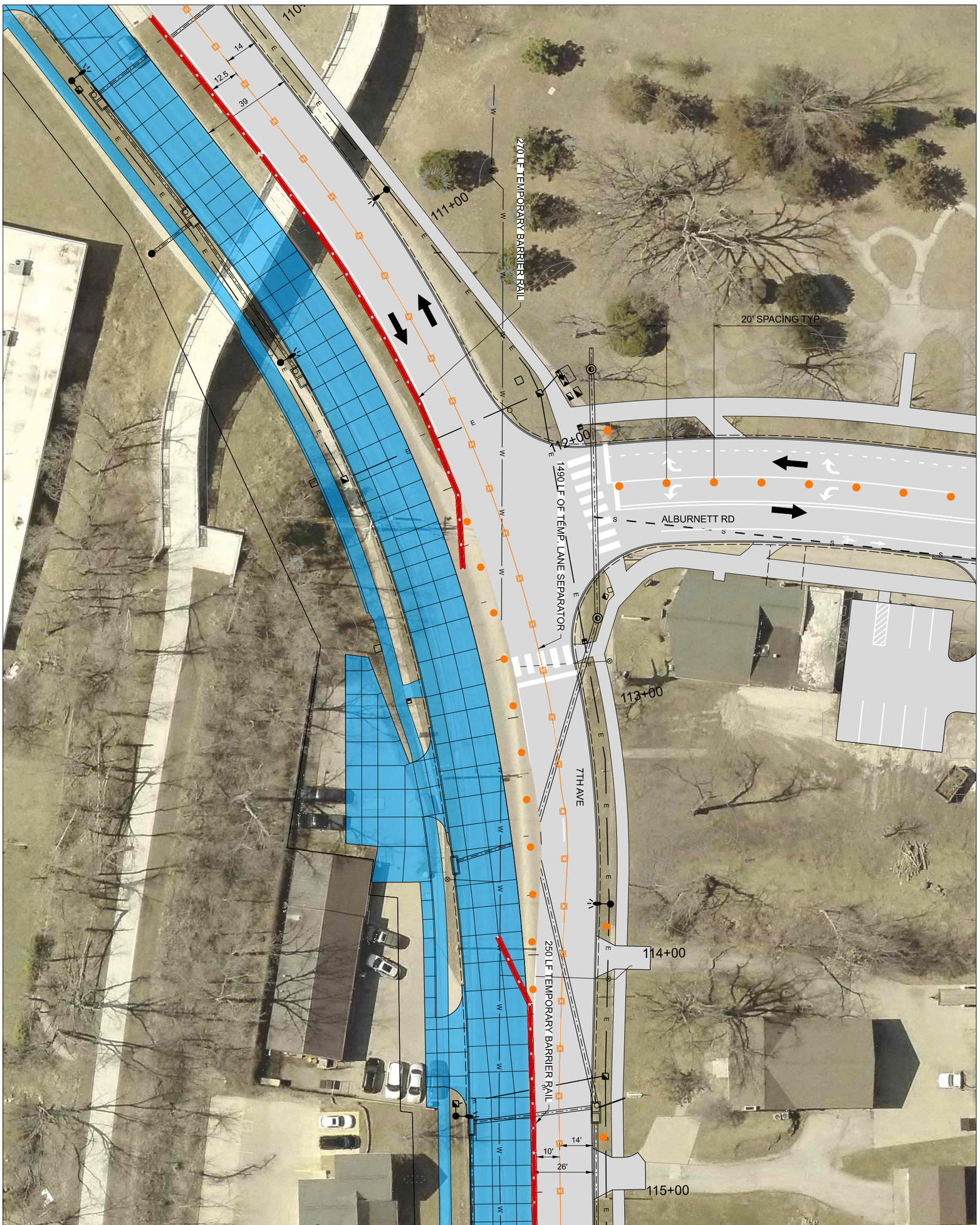
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Project No: 116.0663

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Sheet J.83 | Project No: 116.0663

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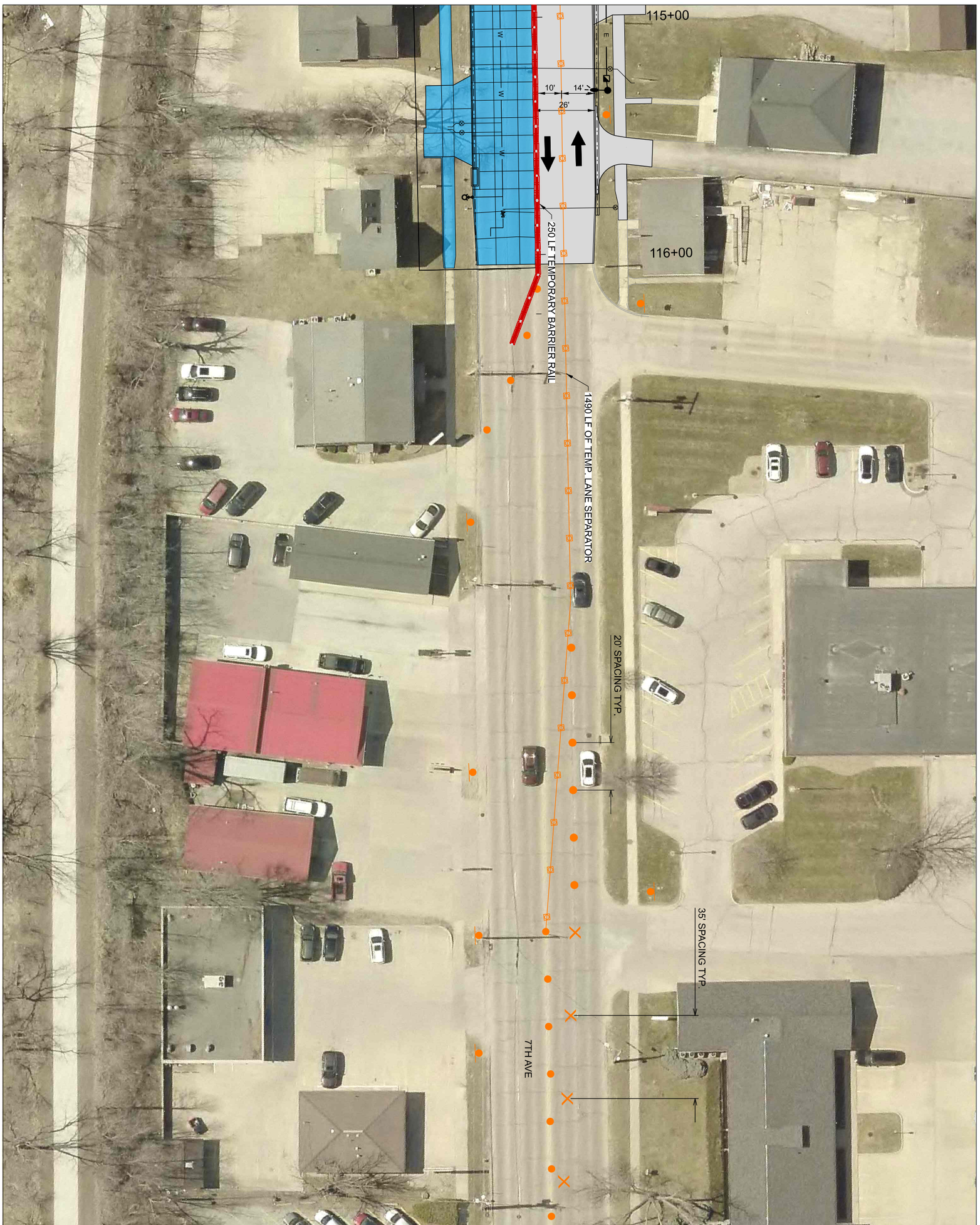
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 8

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.83		



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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 8

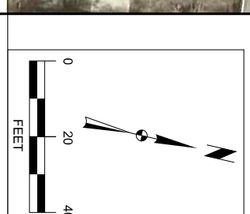
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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.84		

Sheet J.84
Project No: 116.0663





LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

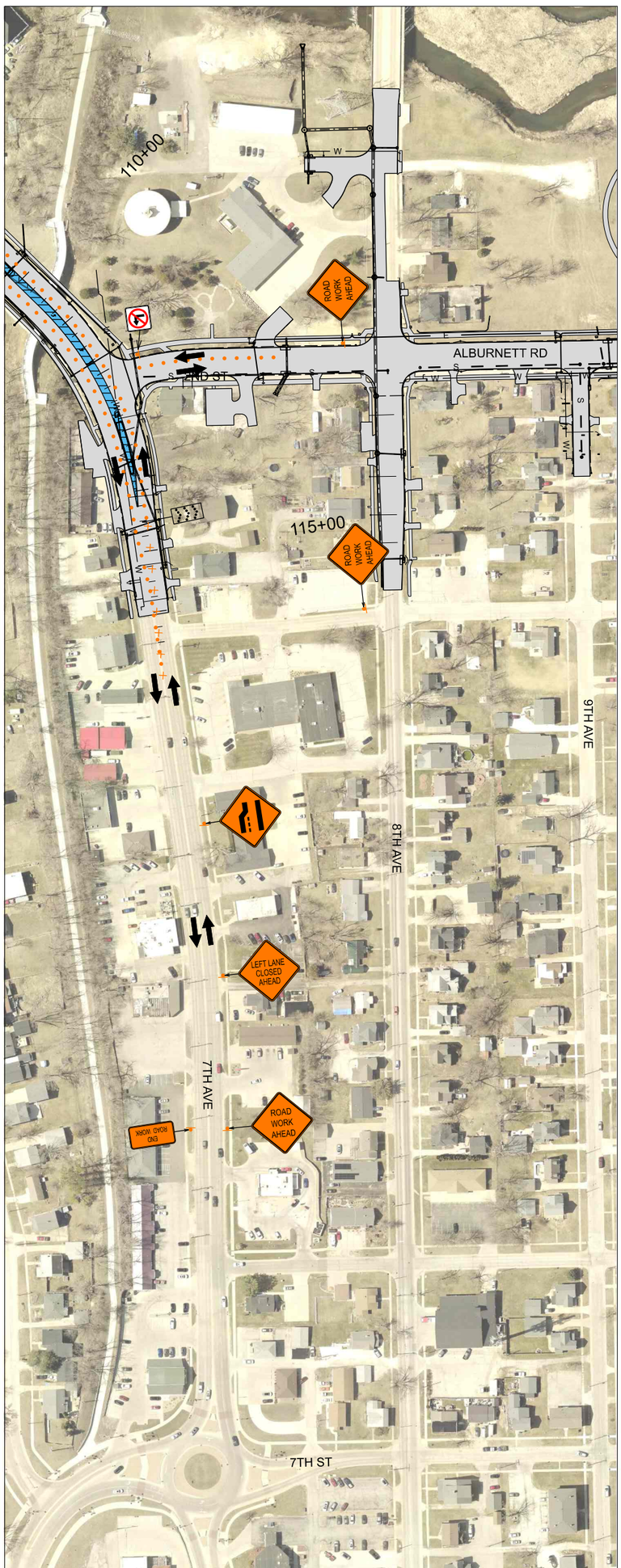
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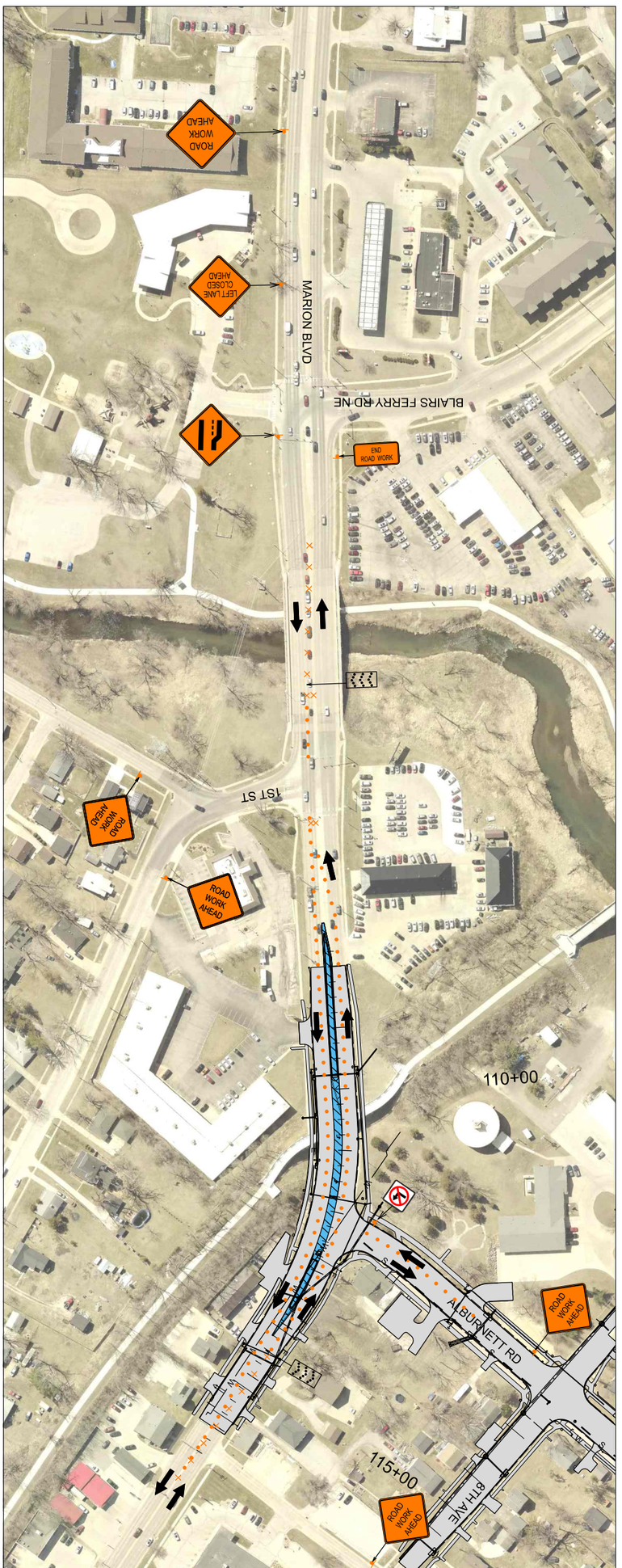
CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57				
FINAL PLANS			5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/8/2026	T-R-S:		
Project No: 116.0663		Sheet J.85		

Sheet J.85
Project No: 116.0663





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LEGEND

- TEMPORARY BARRIER RAIL
- TEMPORARY LANE SEPARATOR SYSTEM
- CONSTRUCTION FENCE
- DIRECTION OF TRAVEL
- ARROW BOARD
- PROPOSED PAVEMENT
- TEMPORARY PAVEMENT
- CONSTRUCTED IN PREVIOUS STAGE
- STABILIZED CONSTRUCTION ENTRANCE
- WORK AREA
- TYPE III BARRICADE
- TRAFFIC SIGN
- CHANNELIZING DEVICE
- DRUM

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 9

CITY OF MARION, IOWA

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DOT PROJECT NUMBER:	HDP-4775(646)--71-57
FINAL PLANS	5/13/2026
MARK / REVISION	DATE / BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026
T-R-S:	
Project No: 116.0663	Sheet J.90

Sheet J.90
Project No: 116.0663

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION		

Engineer: MGB Checked By: DMS
Technician: KMM Date: 5/8/2026 T-R-S:

Project No: 116.0663 Sheet J.91

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 9

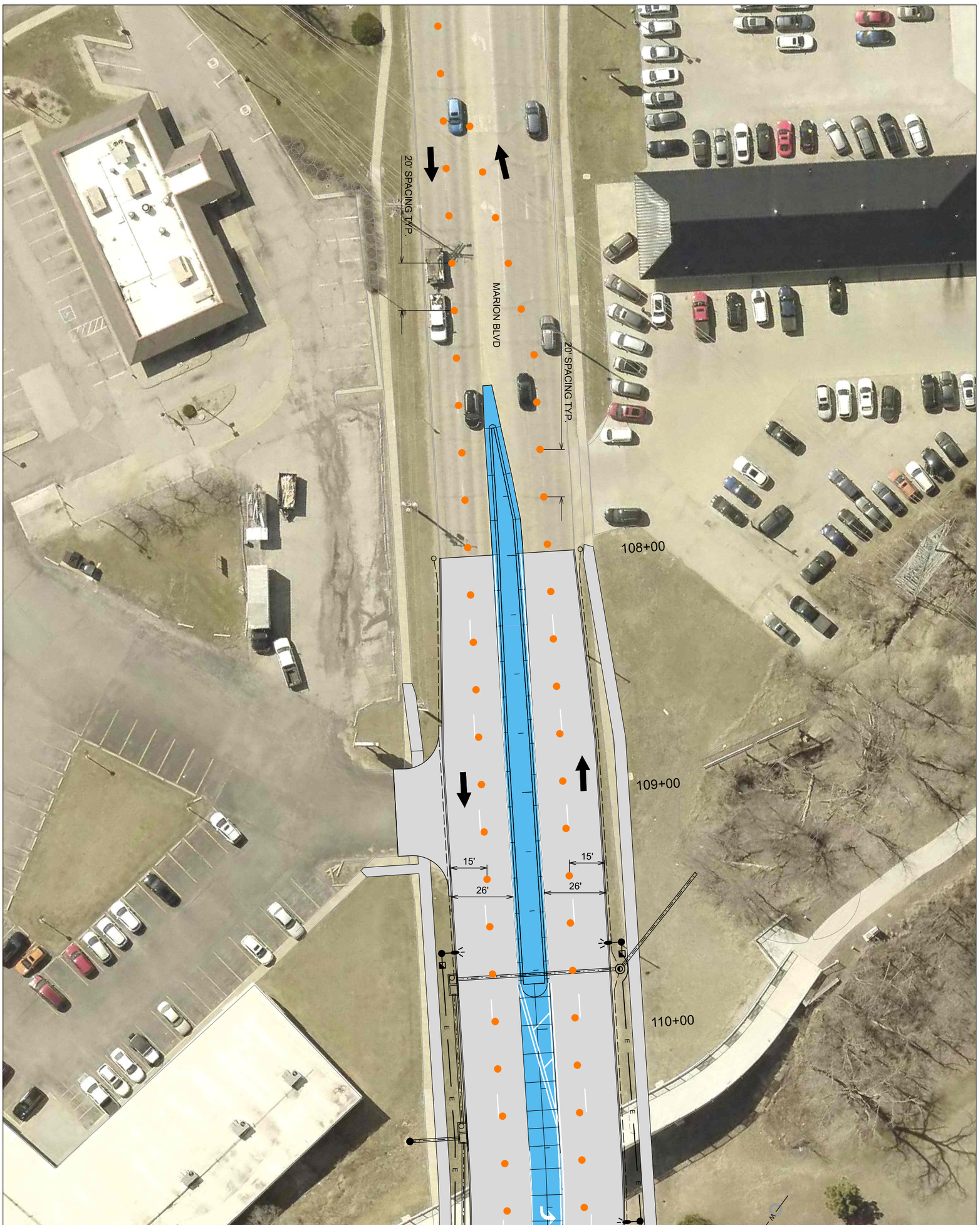
CITY OF MARION, IOWA

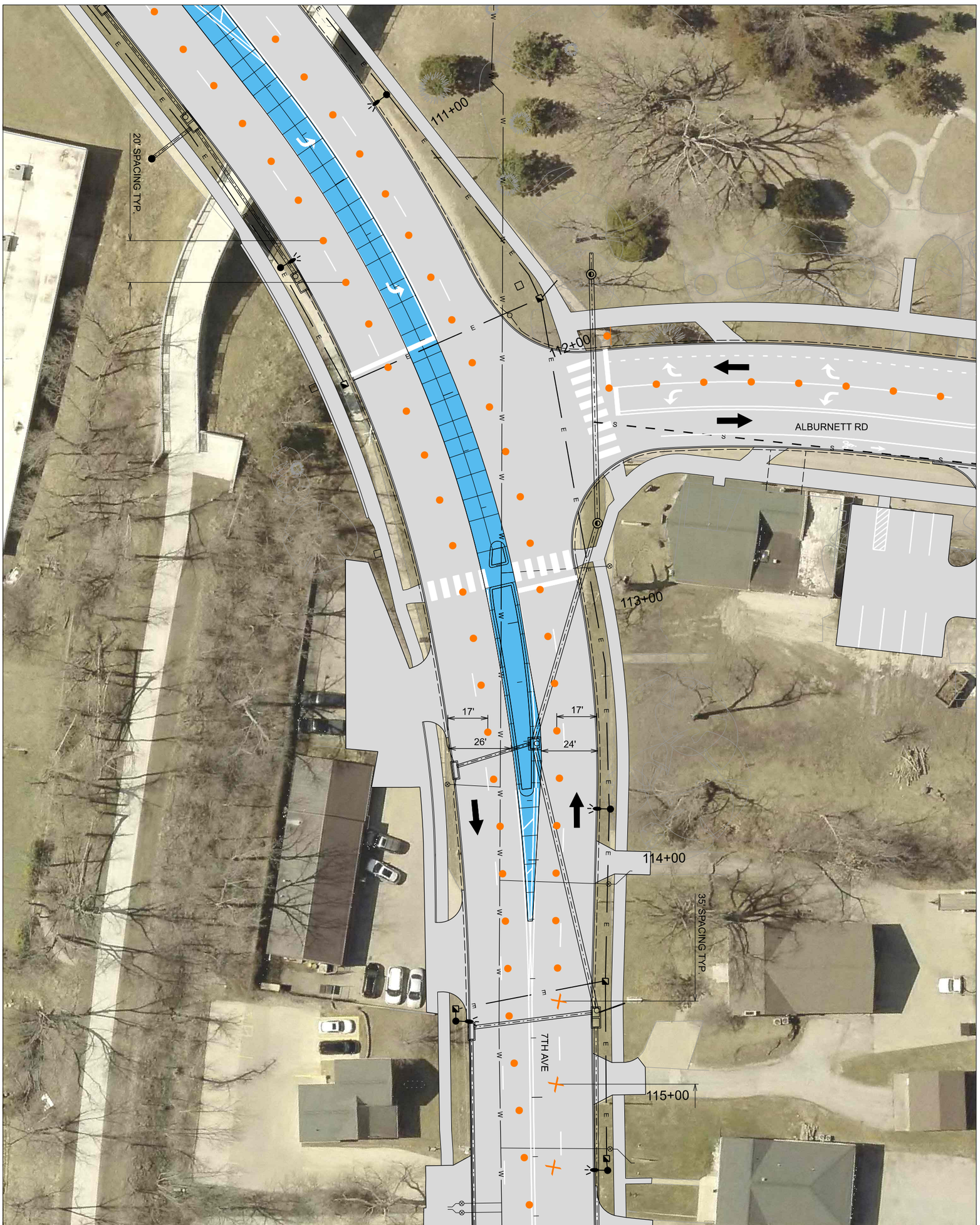
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Project No: 116.0663
Sheet J.91

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20' SPACING TYP.
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109+00
110+00
15'
26'
15'
26'
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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 9

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57	
FINAL PLANS	5/13/2026
MARK / REVISION	DATE / BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026
T-R-S:	
Project No: 116.0663	Sheet J.93

Sheet J.93
Project No: 116.0663



ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

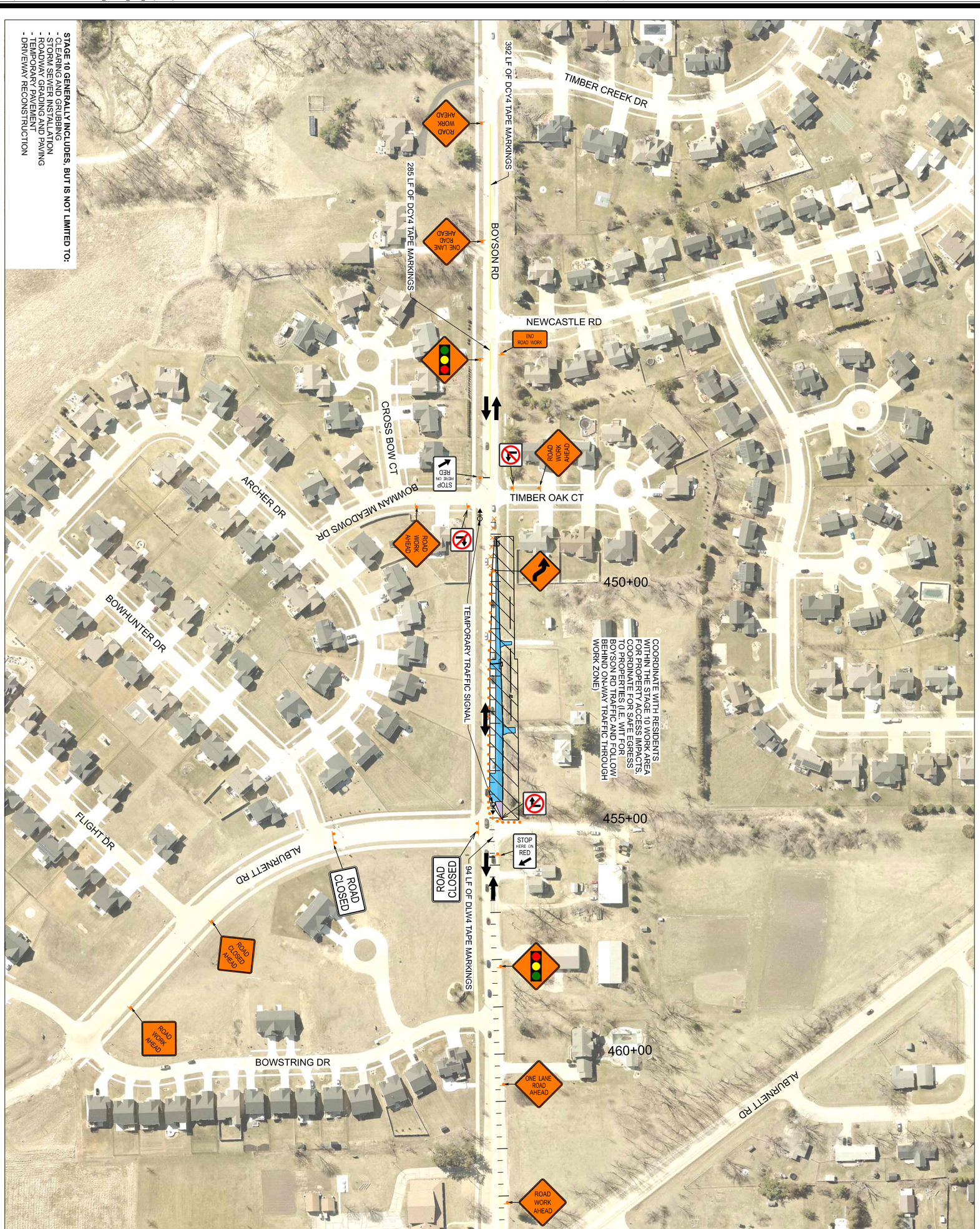
TRAFFIC CONTROL AND STAGING - STAGE 9

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.94		

Sheet J.94
Project No: 116.0663



ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 10

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DOT PROJECT NUMBER:	HDP-4775(646)--71-57
FINAL PLANS	5/13/2026
MARK / REVISION	DATE / BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026
T-R-S:	
Project No: 116.0663	Sheet J.100

Sheet J.100
Project No: 116.0663

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/8/2026 | Sheet J.101

Project No: 116.0663

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 10

CITY OF MARION, IOWA

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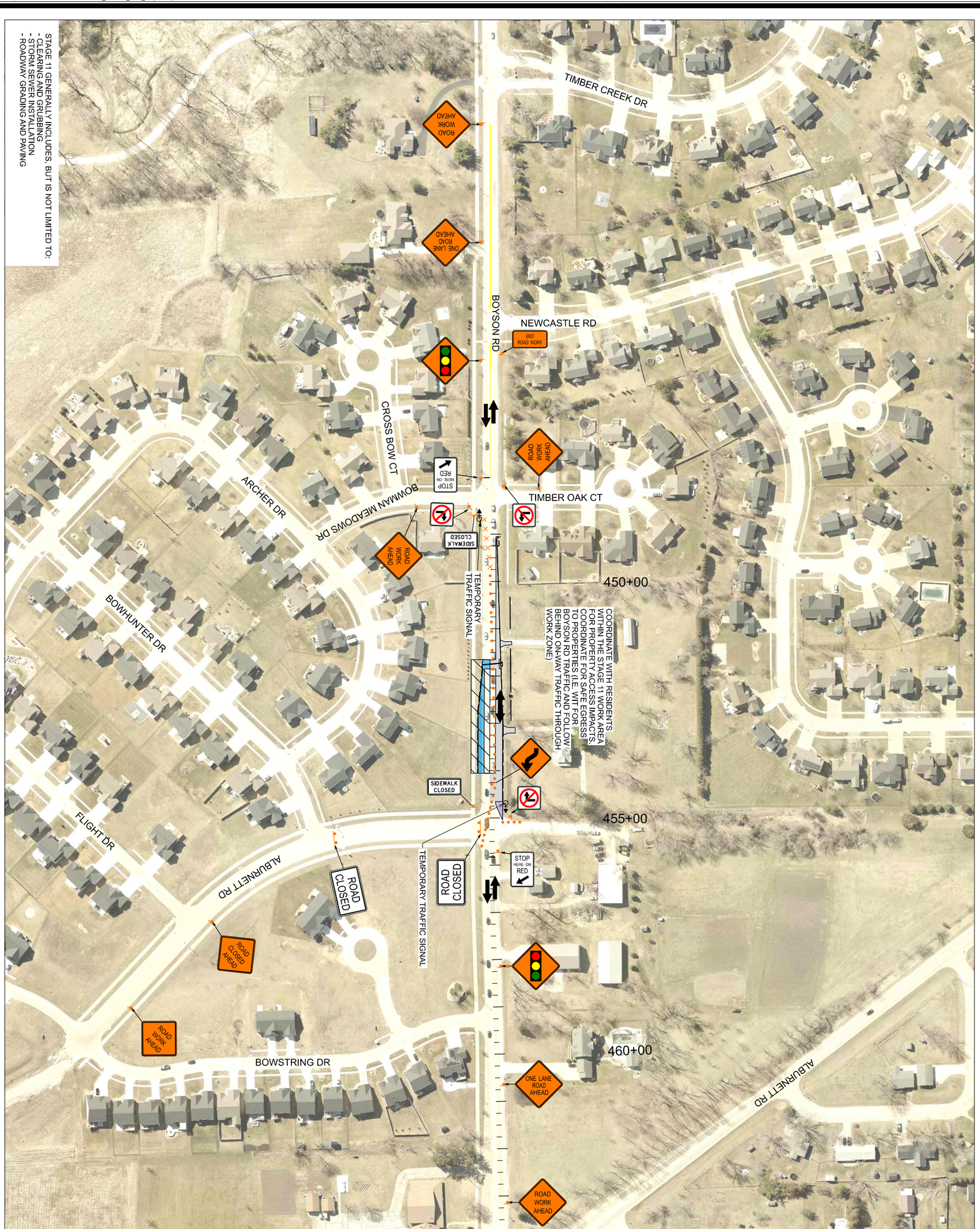
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Project No: 116.0663

Sheet J.101

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 11

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		5/13/2026	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.110		

Sheet J.110
Project No: 116.0663

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS

Technician: KMM Date: 5/8/2026 T-R-S:

Project No: 116.0663 Sheet J.111

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 11

CITY OF MARION, IOWA

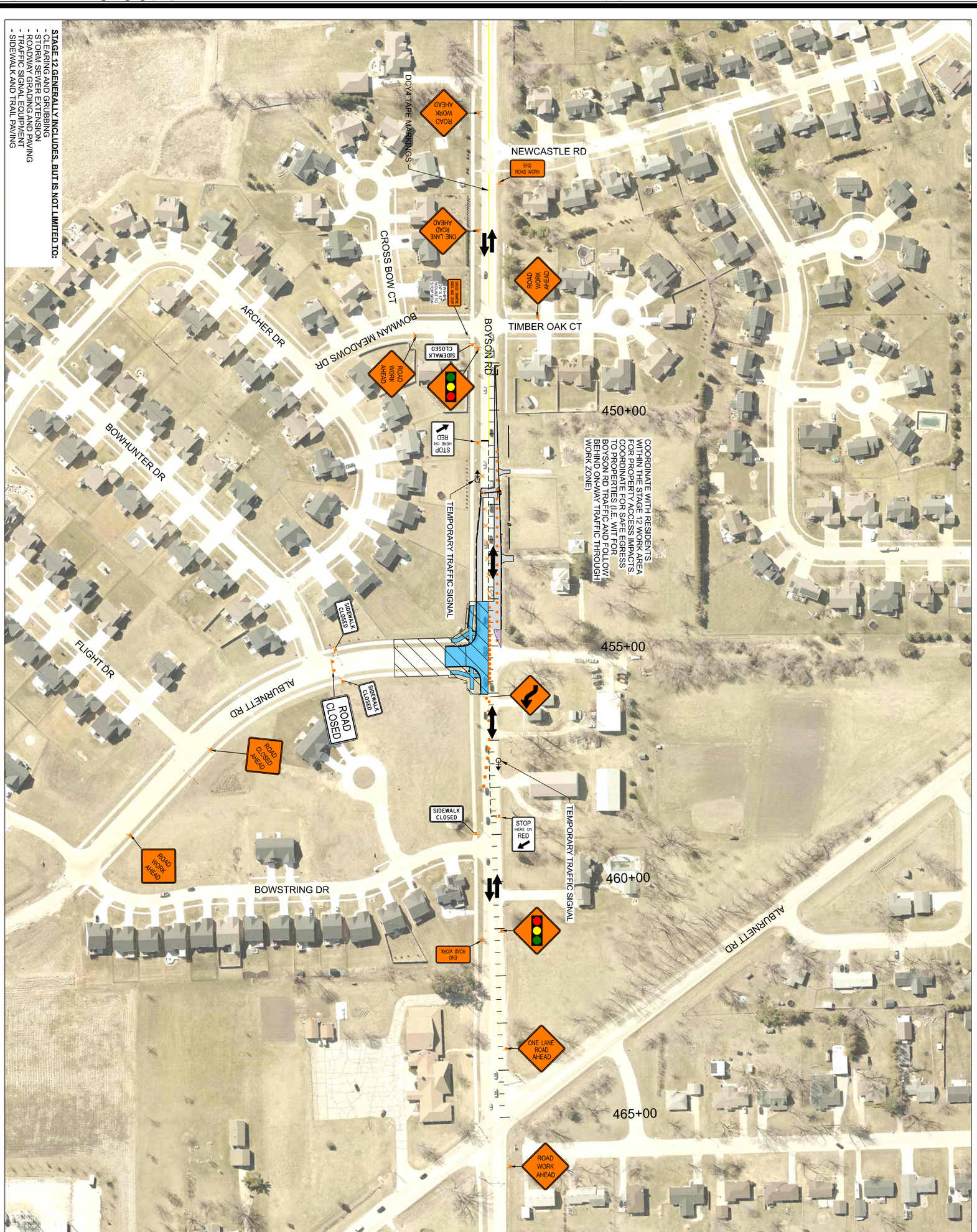
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Project No: 116.0663

Sheet J.111

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 12

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DOT PROJECT NUMBER:	HDP-4775(646)--71-57
FINAL PLANS	5/13/2026
MARK / REVISION	DATE / BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026
T-R-S:	
Project No: 116.0663	Sheet J.120

Sheet J.120
Project No: 116.0663

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/8/2026 | Sheet J.121
Project No: 116.0663

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 12

CITY OF MARION, IOWA

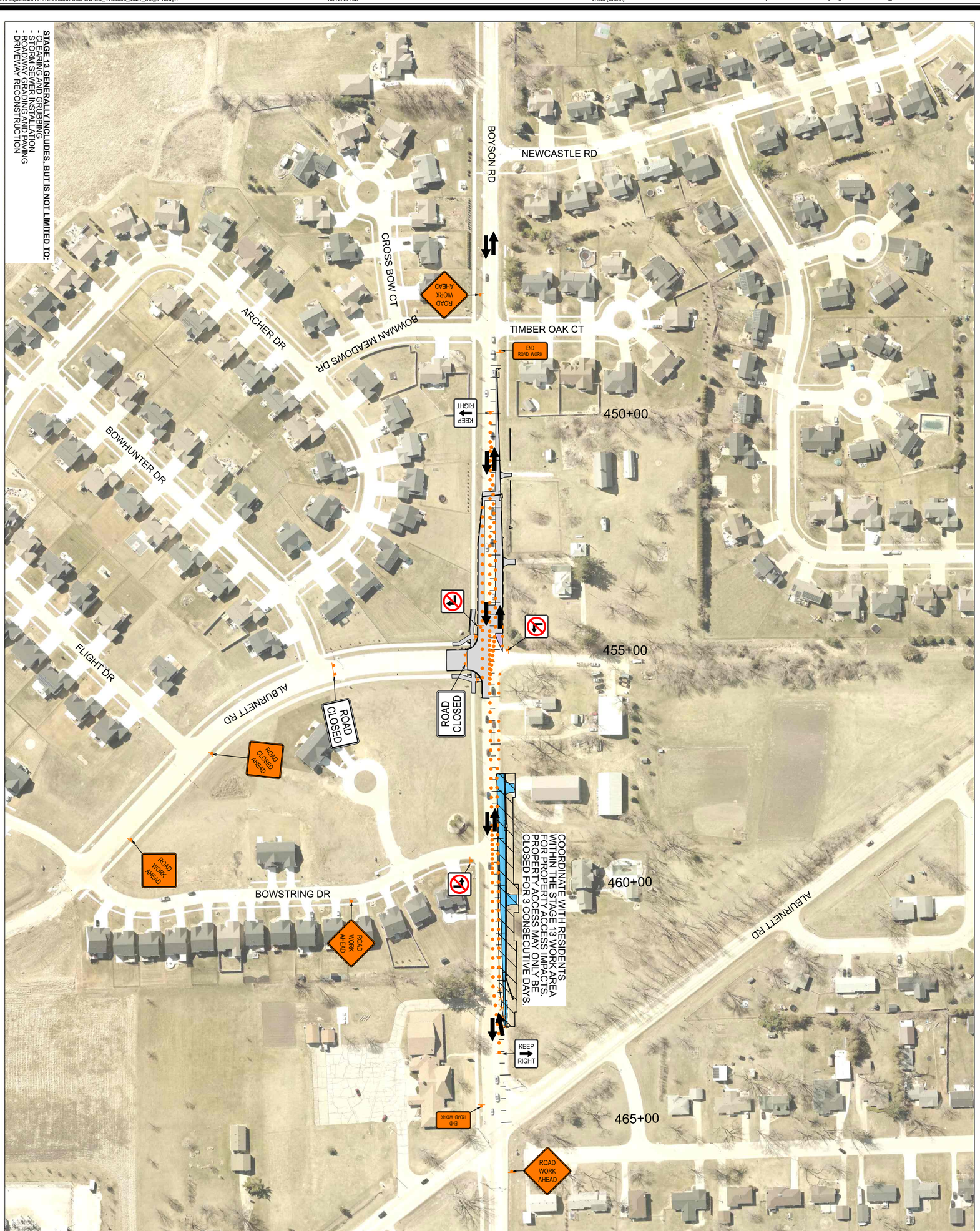
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Project No: 116.0663

Sheet J.121

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

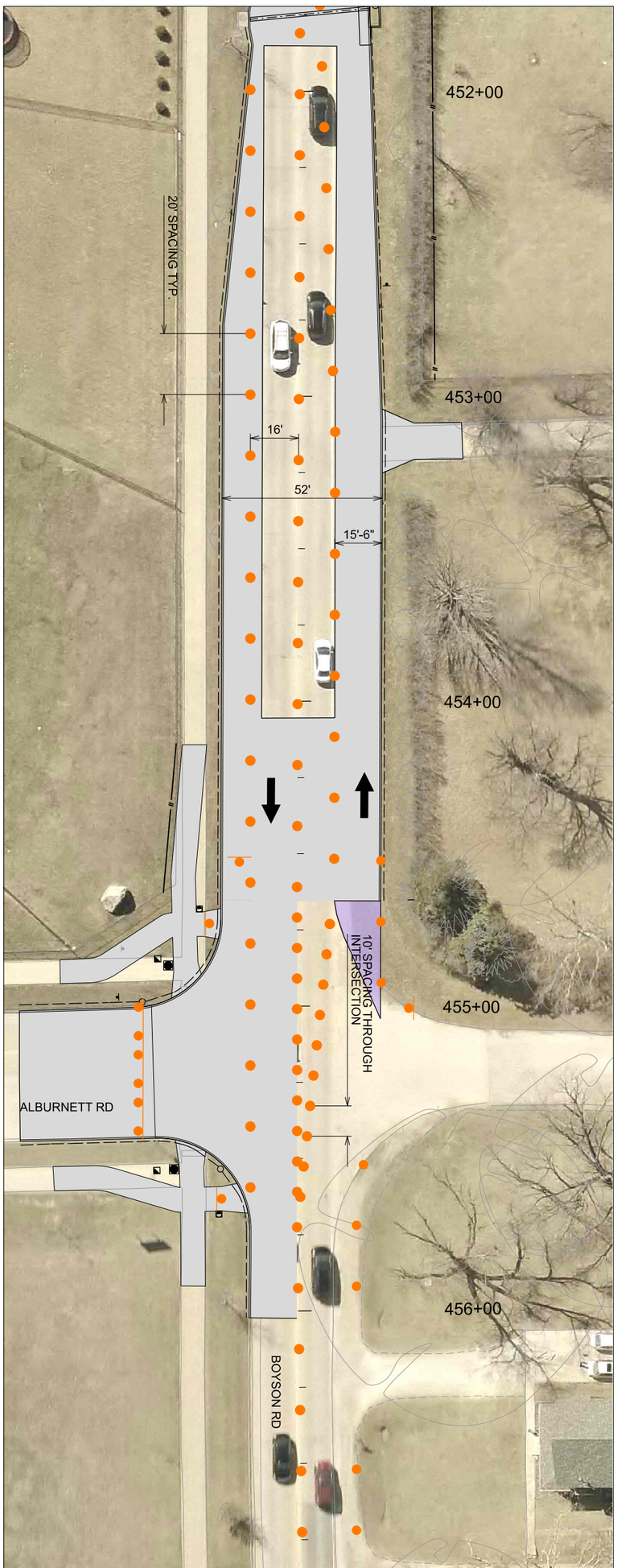
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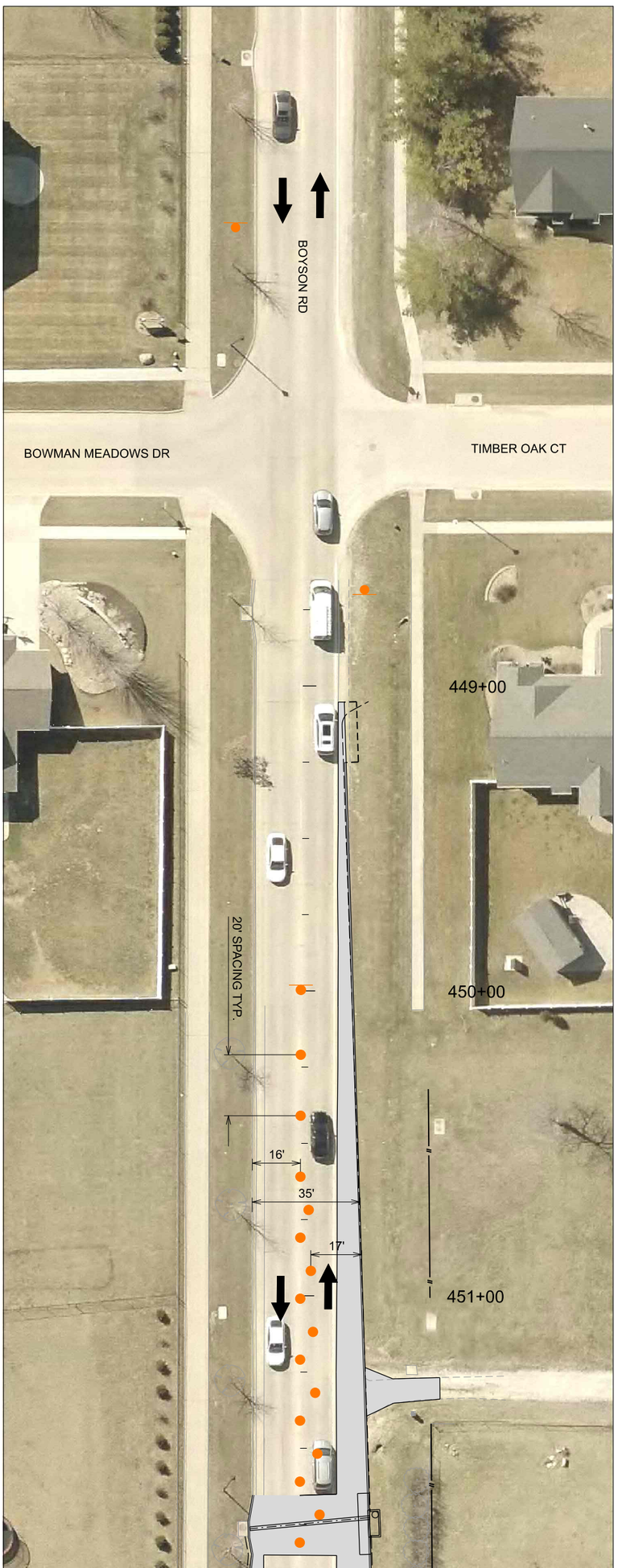
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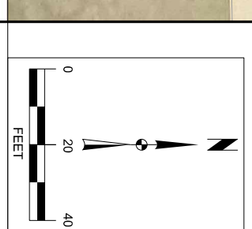
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319-362-9394 | www.snyder-associates.com

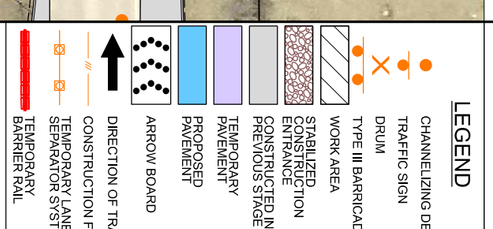
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FINAL PLANS	5/13/2026
MARK REVISION	DATE BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026 T-R-S:
Project No: 116.0663	Sheet J.130

Sheet J.130
Project No: 116.0663









Sheet J.131 | Project No: 116.0663

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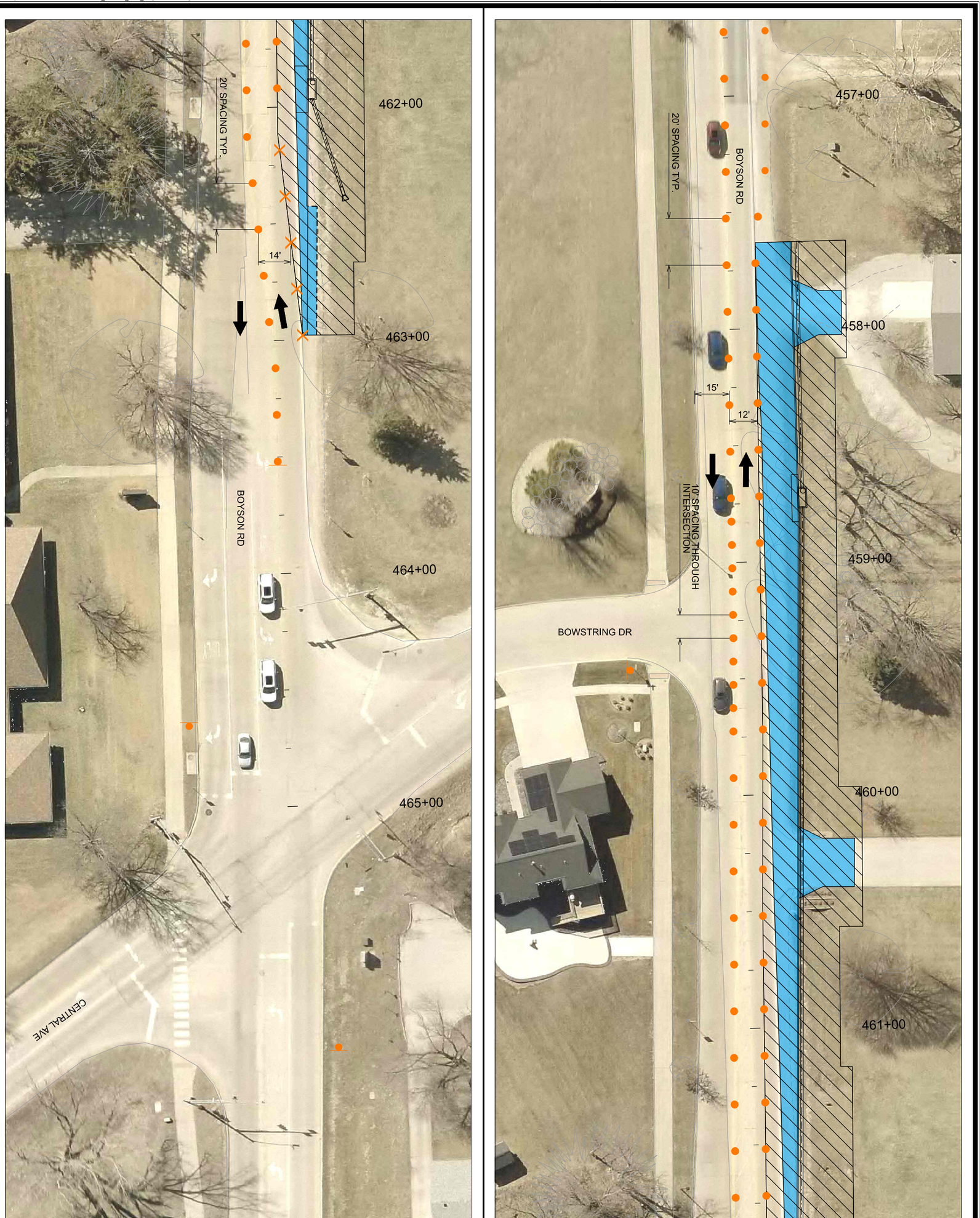
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 13

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.131		



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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 13

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet J.132		

Sheet J.132
Project No: 116.0663

STAGE 14 GENERALLY INCLUDES, BUT IS NOT LIMITED TO:

- CLEARING AND GRUBBING
- STORM SEWER INSTALLATION
- ROADWAY GRADING AND PAVING
- TRAFFIC SIGNAL EQUIPMENT
- SIDEWALK PAVING
- DRIVEWAY RECONSTRUCTION
- CENTRAL AVE TRAFFIC SIGNAL MODIFICATIONS

LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/8/2026 | Project No: 116.0663 | Sheet J.140

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 14

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Project No: 116.0663

Sheet J.140

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LEGEND

- CHANNELIZING DEVICE
- TRAFFIC SIGN
- DRUM
- TYPE III BARRICADE
- WORK AREA
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTED IN PREVIOUS STAGE
- TEMPORARY PAVEMENT
- PROPOSED PAVEMENT
- ARROW BOARD
- DIRECTION OF TRAVEL
- CONSTRUCTION FENCE
- TEMPORARY LANE SEPARATOR SYSTEM
- TEMPORARY BARRIER RAIL

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/8/2026
Project No: 116.0663 Sheet J.141

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 14

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Project No: 116.0663
Sheet J.141

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS

Technician: KMM | Date: 5/8/2026 | T-R-S:

Project No: 116.0663 | Sheet J.142

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAFFIC CONTROL AND STAGING - STAGE 14

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

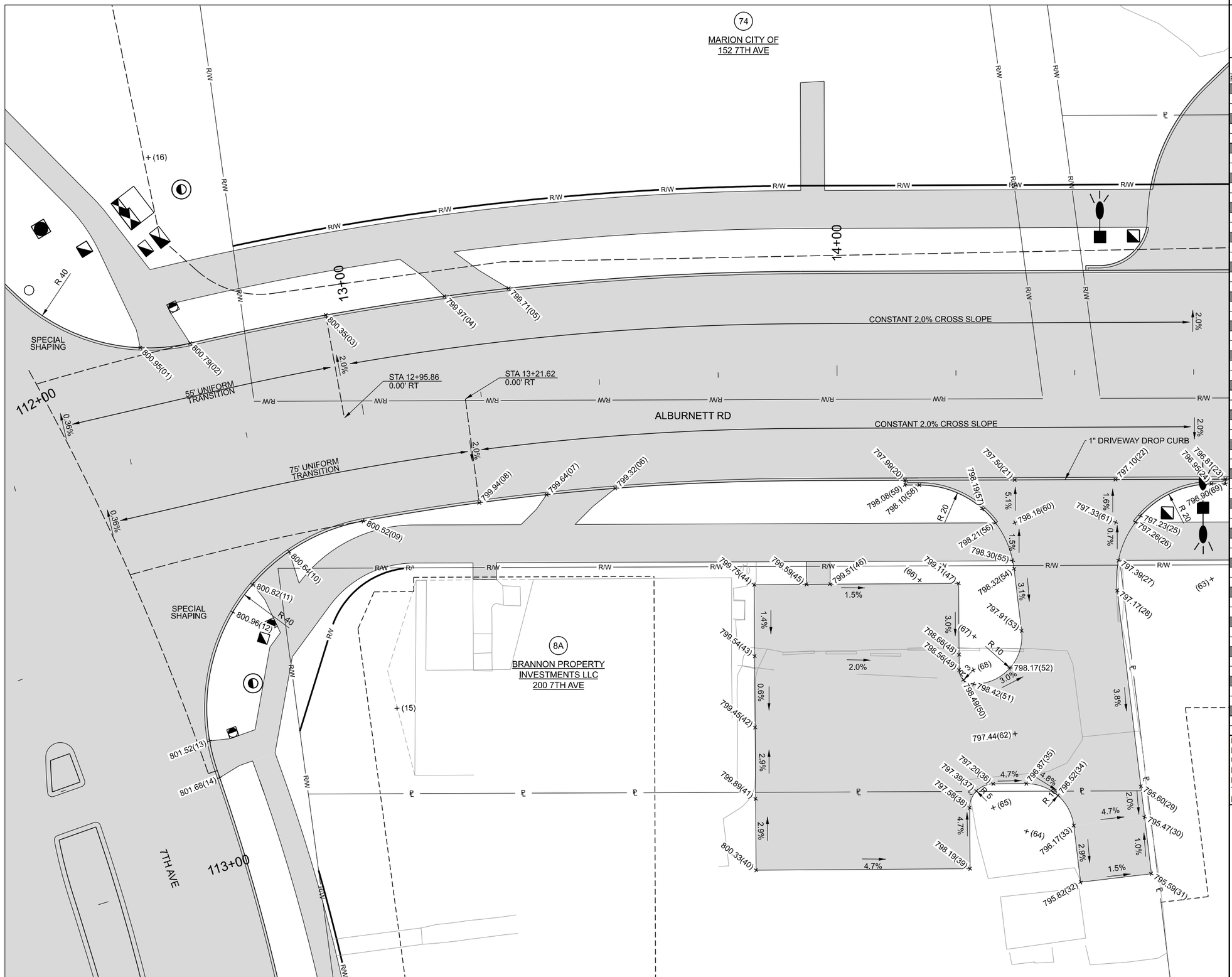
900 BELL DRIVE S.W.
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Project No: 116.0663

Sheet J.142

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	12+57.36	-23.44	LT	
2	12+67.78	-22.00	LT	
3	12+95.86	-22.00	LT	
4	13+20.15	-22.00	LT	
5	13+33.24	-22.00	LT	
6	13+51.56	22.00	LT	
7	13+36.50	22.00	RT	
8	13+21.62	22.00	RT	
9	12+95.86	22.00	RT	EOR
10	12+78.63	25.27	RT	
11	12+69.17	30.34	RT	
12	12+63.79	35.10	RT	MP
13	12+52.93	60.35	RT	
14	12+53.26	68.35	RT	
15	12+95.86	62.00	RT	RP
16	12+68.01	-62.00	LT	RP
20	14+14.20	22.00	RT	
21	14+37.27	22.00	RT	
22	14+58.47	22.00	RT	
23	14+81.62	22.00	RT	
24	14+78.62	23.00	RT	EOR
25	14+63.68	29.70	RT	MP
26	14+62.62	31.00	RT	
27	14+59.02	39.00	RT	
28	14+58.75	45.32	RT	EOR
29	14+63.56	86.50	RT	
30	14+64.31	92.95	RT	
31	14+65.70	104.87	RT	
32	14+50.80	106.61	RT	
33	14+49.41	94.69	RT	EOR
34	14+46.12	88.37	RT	MP
35	14+39.45	85.85	RT	EOR
36	14+32.51	85.87	RT	EOR
37	14+28.98	87.34	RT	MP
38	14+27.53	90.88	RT	EOR
39	14+27.57	103.69	RT	
40	13+80.28	103.72	RT	
41	13+80.62	88.72	RT	
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50	14+26.32	64.01	RT	MP
51	14+28.45	64.89	RT	EOR
52	14+36.13	61.53	RT	MP
53	14+38.59	53.73	RT	EOR
54	14+37.07	40.68	RT	EOR
55	14+36.80	39.00	RT	RP
56	14+33.20	31.00	RT	EOR
57	14+30.50	28.06	RT	
58	14+17.20	23.00	RT	EOR
59	14+14.20	23.00	RT	
60	14+37.27	31.00	RT	
61	14+58.47	31.00	RT	
62	14+37.15	75.36	RT	
63	14+78.62	43.00	RT	RP
64	14+39.48	95.85	RT	RP
65	14+32.53	90.87	RT	RP
66	14+17.20	43.00	RT	RP
67	14+28.66	54.89	RT	RP
68	14+28.44	61.89	RT	RP
69	14+81.62	23.00	RT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.1

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

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CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.1

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MARION CITY OF
152 7TH AVE

R/W
℄
13+00
14+00
112+00
113+00
ALBURNETT RD
7TH AVE

8A
BRANNON PROPERTY
INVESTMENTS LLC
200 7TH AVE

LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.2

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

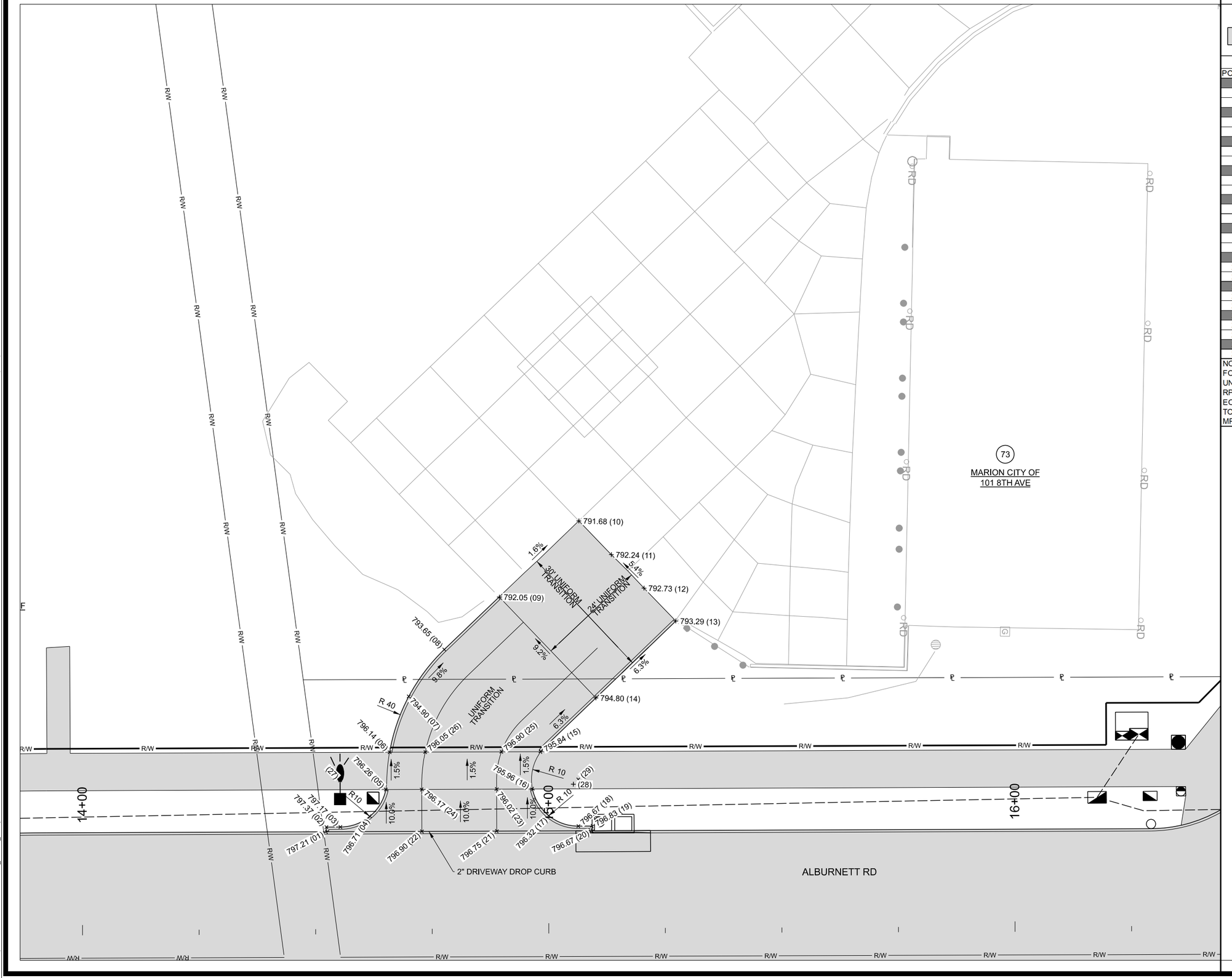
CITY OF MARION, IOWA

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CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

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Project No: 116.0663

Sheet L.2



POINT #	STATION	OFFSET		NOTES
1	14+52.39	-22.00	LT	
2	14+52.39	-23.00	LT	
3	14+55.39	-23.00	LT	EOR
4	14+61.71	-25.25	LT	MP
5	14+65.18	-31.00	LT	EOR
6	14+66.01	-39.00	LT	EOR
7	14+70.16	-50.95	LT	MP
8	14+77.82	-60.99	LT	EOR
9	14+89.65	-72.22	LT	
10	15+06.79	-88.45	LT	
11	15+13.73	-81.19	LT	
12	15+20.71	-73.98	LT	
13	15+27.50	-66.91	LT	
14	15+10.31	-50.48	LT	
15	14+98.43	-39.00	LT	
16	14+96.63	-31.00	LT	EOR
17	15+00.11	-25.25	LT	MP
18	15+06.43	-23.00	LT	EOR
19	15+09.39	-23.00	LT	
20	15+09.39	-22.00	LT	
21	14+88.93	-22.00	LT	
22	14+72.88	-22.00	LT	
23	14+88.93	-31.00	LT	
24	14+72.88	-31.00	LT	
25	14+89.99	-39.00	LT	
26	14+73.65	-39.00	LT	
27	14+55.39	-33.00	LT	RP
28	15+05.39	-32.00	LT	RP
29	15+06.43	-33.00	LT	RP

NOTE:ALL ELEVATIONS ARE
FORM GRADE OR TOP OF SLAB
UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.3

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

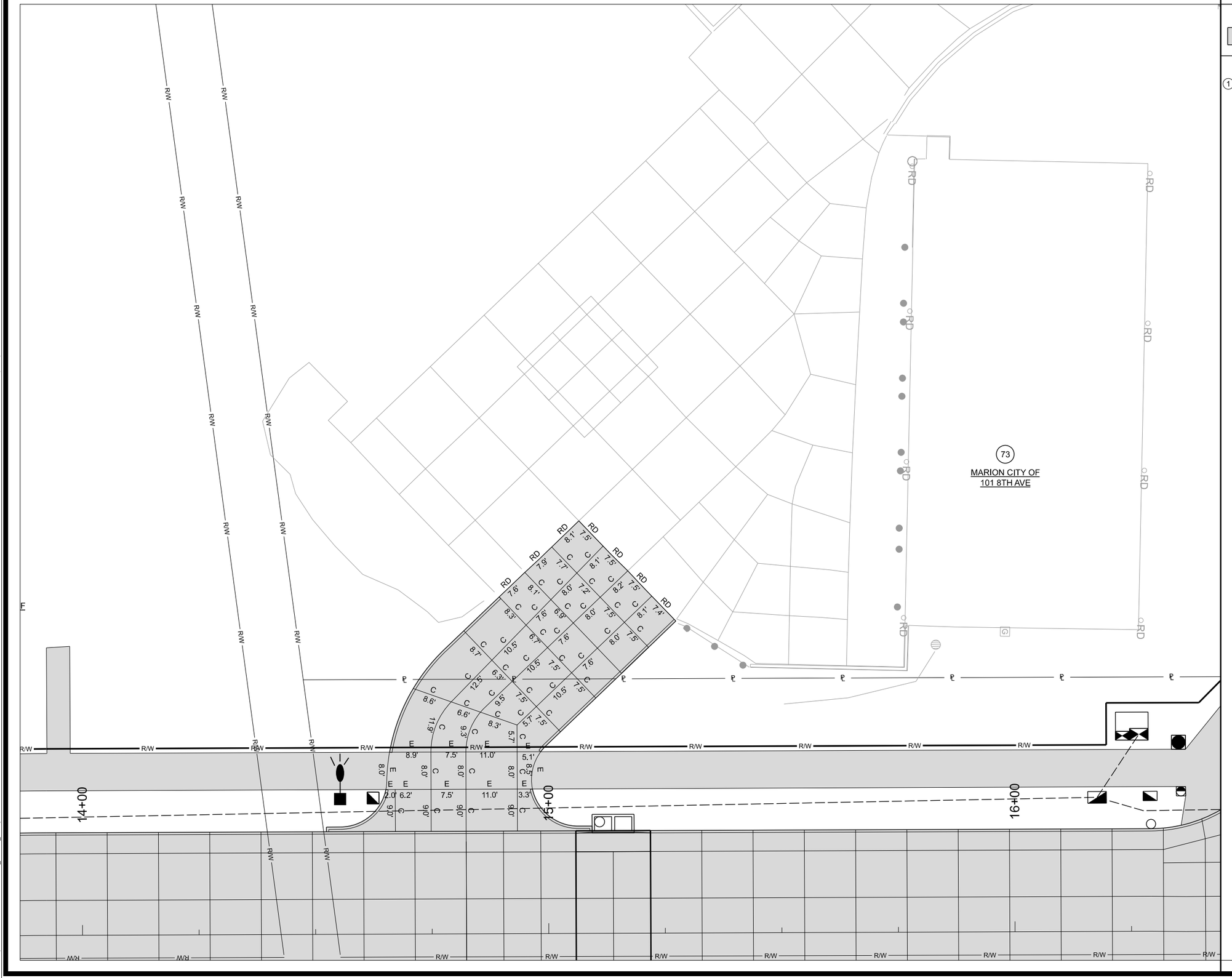
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.3

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:

Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.4

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

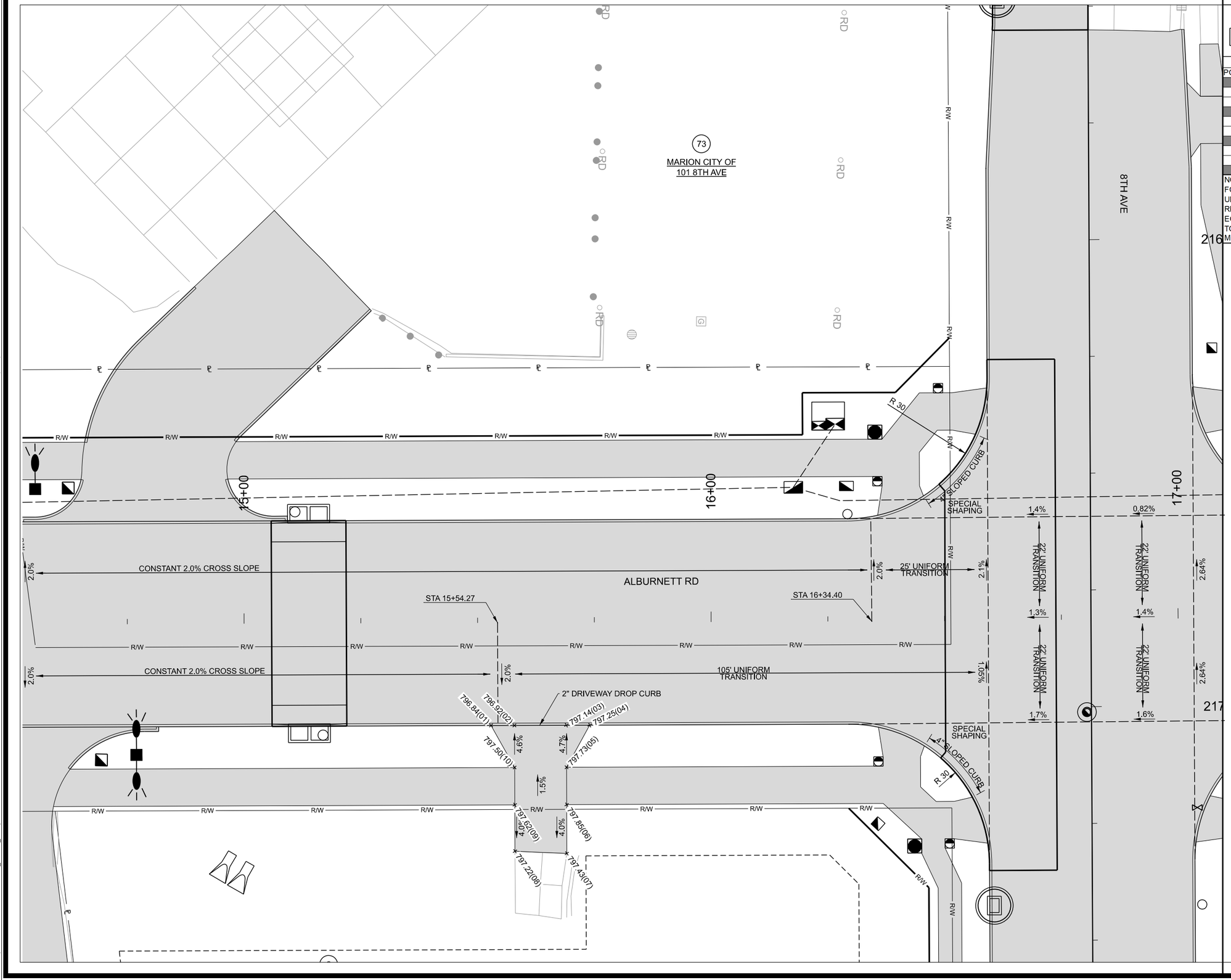
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Project No: 116.0663

Sheet L.4

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	15+52.80	22.00	RT	
2	15+57.80	22.00	RT	
3	15+68.92	22.00	RT	
4	15+73.92	22.00	RT	
5	15+68.92	31.00	RT	
6	15+68.92	39.00	RT	
7	15+68.92	49.45	RT	
8	15+57.80	48.93	RT	
9	15+57.80	39.00	RT	
10	15+57.80	31.00	RT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
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TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/8/2026
Project No: 116.0663 Sheet L.5

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

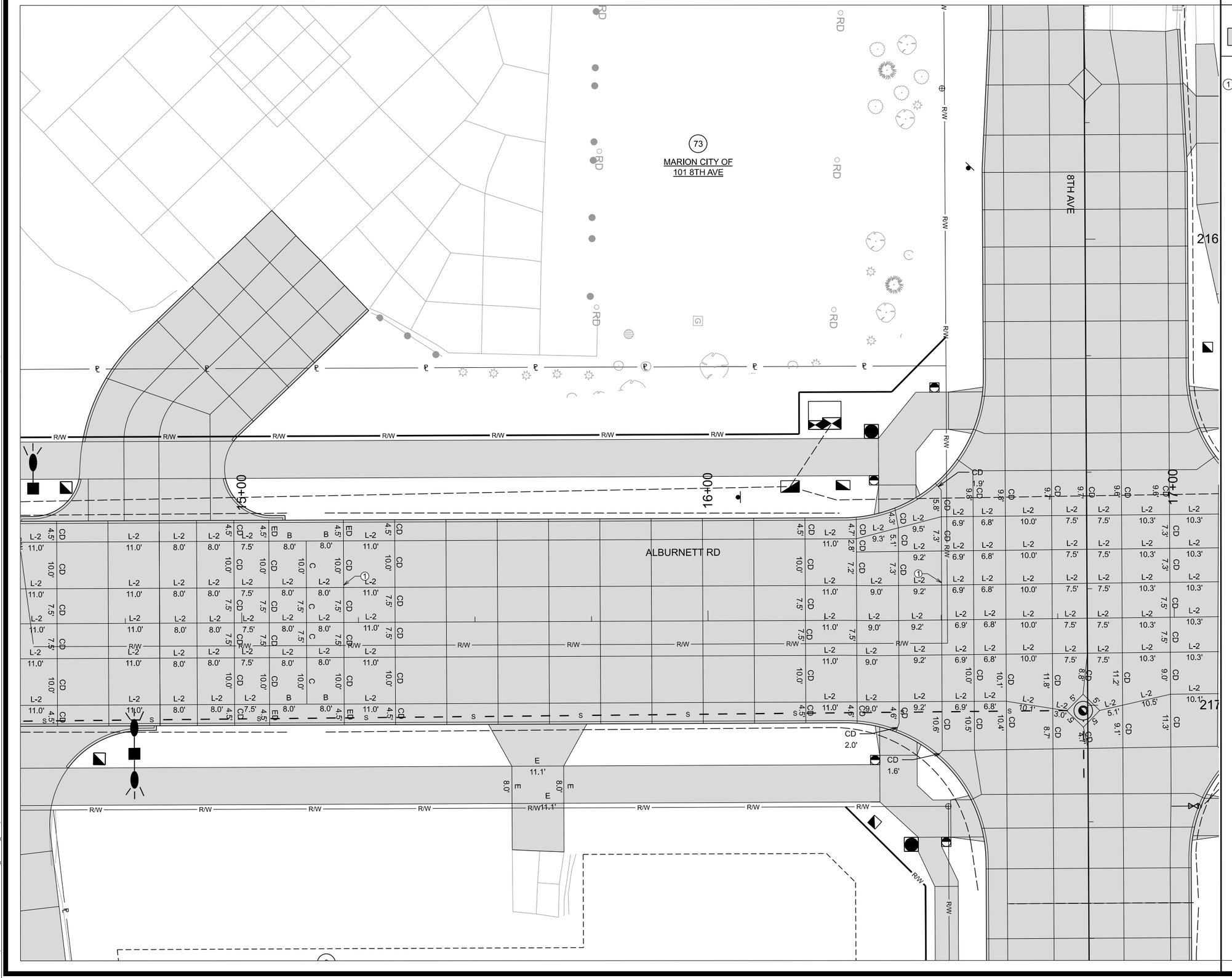
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

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Project No: 116.0663
Sheet L.5

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/12/2026

Project No: 116.0663 | Sheet L.6

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

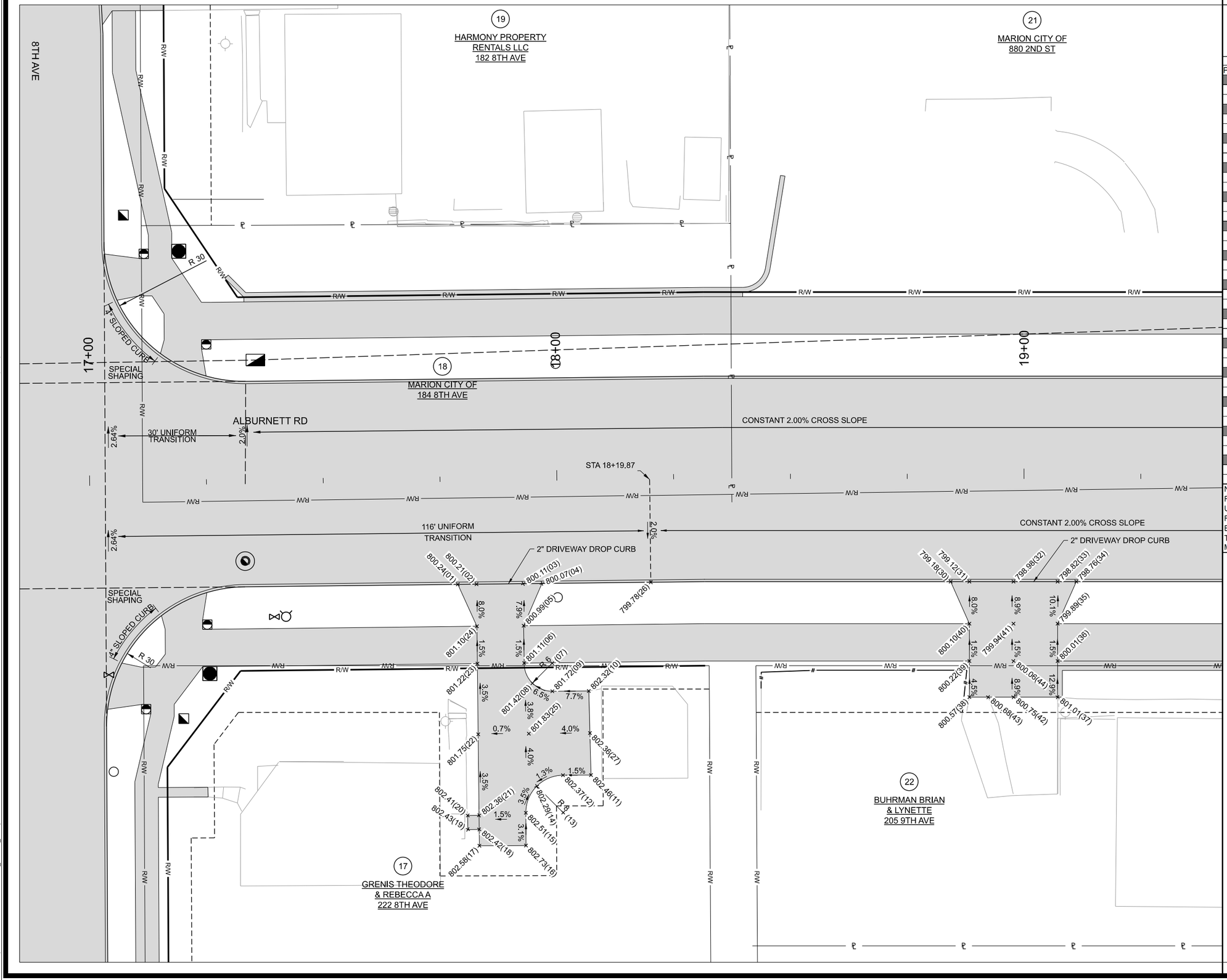
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES, INC.

SNYDER & ASSOCIATES

Project No: 116.0663
Sheet L.6

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	17+78.56	22.00	RT	
2	17+82.56	22.00	RT	
3	17+92.56	22.00	RT	
4	17+96.56	22.00	RT	
5	17+92.56	31.00	RT	
6	17+92.56	39.00	RT	EOR
7	17+98.56	39.09	RT	RP
8	17+94.31	43.33	RT	MP
9	17+98.53	45.09	RT	EOR
10	18+06.33	45.14	RT	
11	18+06.62	63.14	RT	
12	18+00.62	63.10	RT	EOR
13	18+00.57	71.10	RT	RP
14	17+94.95	65.41	RT	MP
15	17+92.57	71.06	RT	EOR
16	17+92.53	78.06	RT	
17	17+82.56	78.00	RT	
18	17+82.56	74.50	RT	
19	17+80.13	74.50	RT	
20	17+80.13	71.50	RT	
21	17+82.56	71.50	RT	
22	17+82.56	54.14	RT	
23	17+82.56	39.00	RT	
24	17+82.56	31.00	RT	
25	17+93.39	54.14	RT	
26	18+19.87	22.00	RT	
27	18+06.47	54.14	RT	
30	18+84.31	22.00	RT	
31	18+88.31	22.00	RT	
32	18+97.75	22.00	RT	
33	19+07.20	22.00	RT	
34	19+11.20	22.00	RT	
35	19+07.20	31.00	RT	
36	19+07.20	39.00	RT	
37	19+07.20	46.73	RT	
38	18+88.31	46.73	RT	
39	18+88.31	39.00	RT	
40	18+88.31	31.00	RT	
41	18+97.75	31.00	RT	
42	18+97.75	46.73	RT	
43	18+92.34	46.73	RT	
44	18+97.75	39.00	RT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026
Project No: 116.0663
Sheet L.7

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

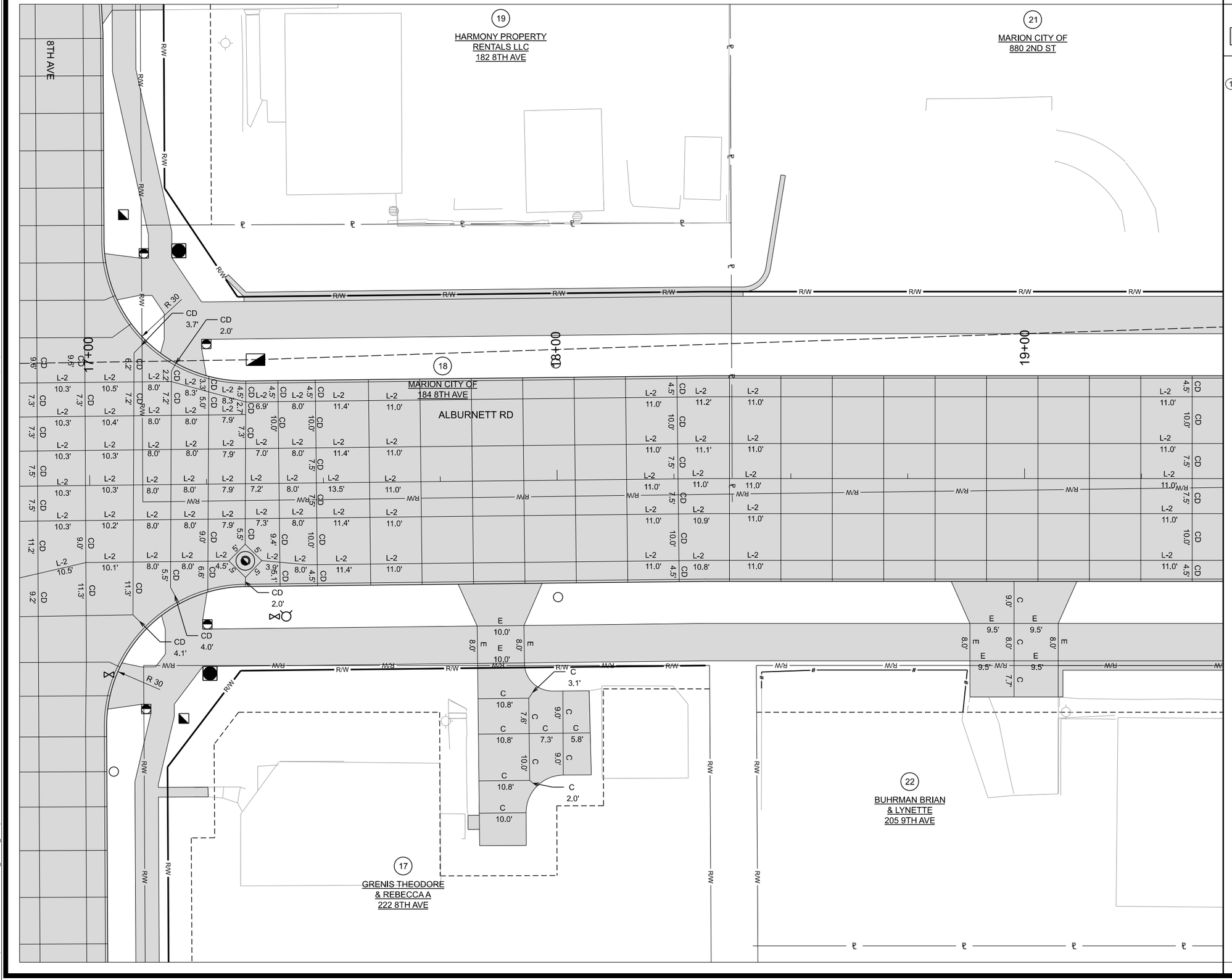
CITY OF MARION, IOWA

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Project No: 116.0663
Sheet L.7

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.8

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

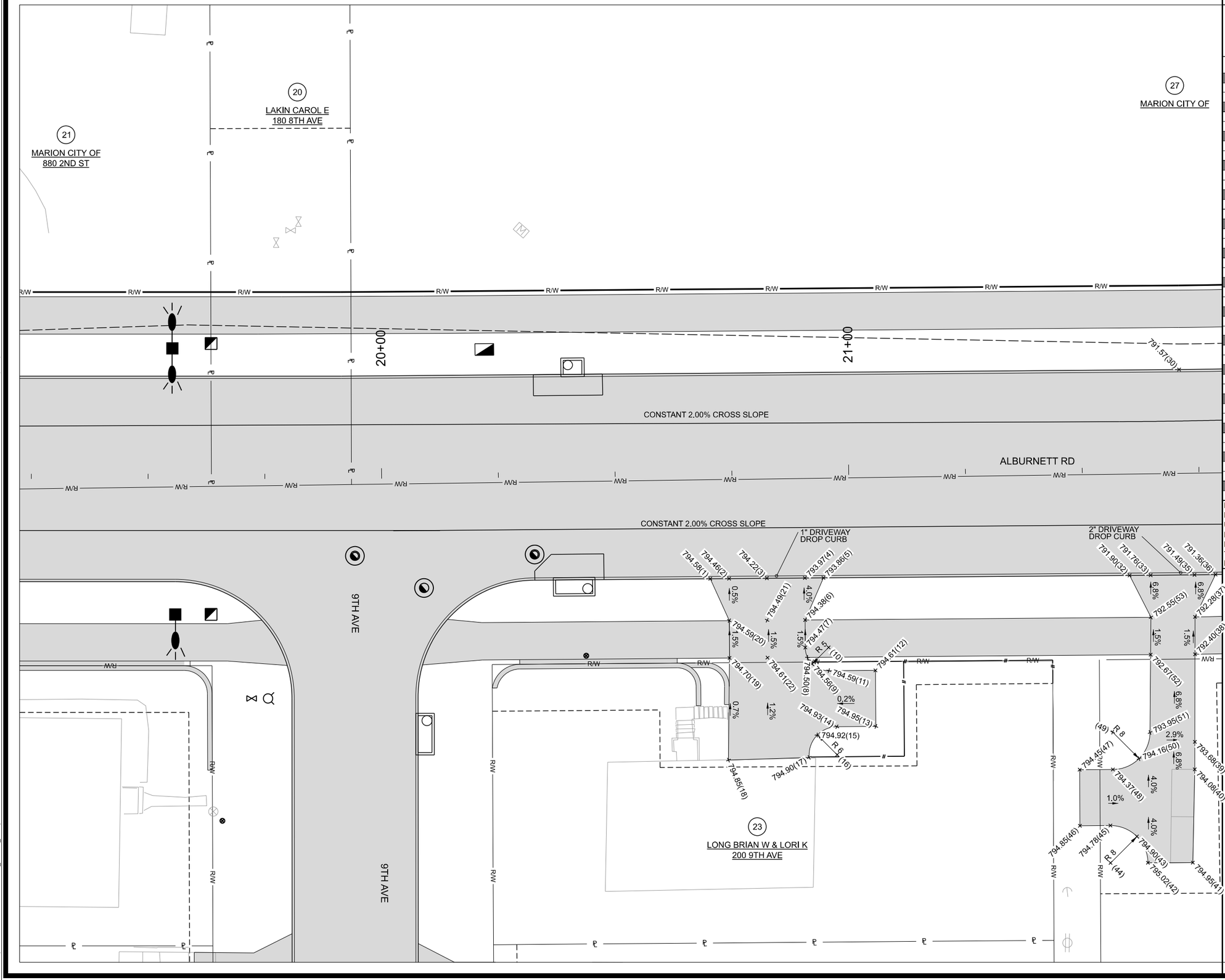
SNYDER & ASSOCIATES, INC.
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CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.8

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11	20+95.41	41.90	RT	EOR
12	21+05.40	41.90	RT	
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14	20+97.06	53.90	RT	EOR
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35	21+73.77	22.00	RT	
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38	21+73.66	39.00	RT	
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40	21+73.34	63.63	RT	
41	21+72.76	83.59	RT	
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47	21+48.96	63.50	RT	
48	21+56.06	63.53	RT	EOR
49	21+56.08	55.53	RT	RP
50	21+61.69	61.24	RT	MP
51	21+64.08	55.65	RT	EOR
52	21+64.34	39.00	RT	
53	21+64.47	31.00	RT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
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TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet L.9

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

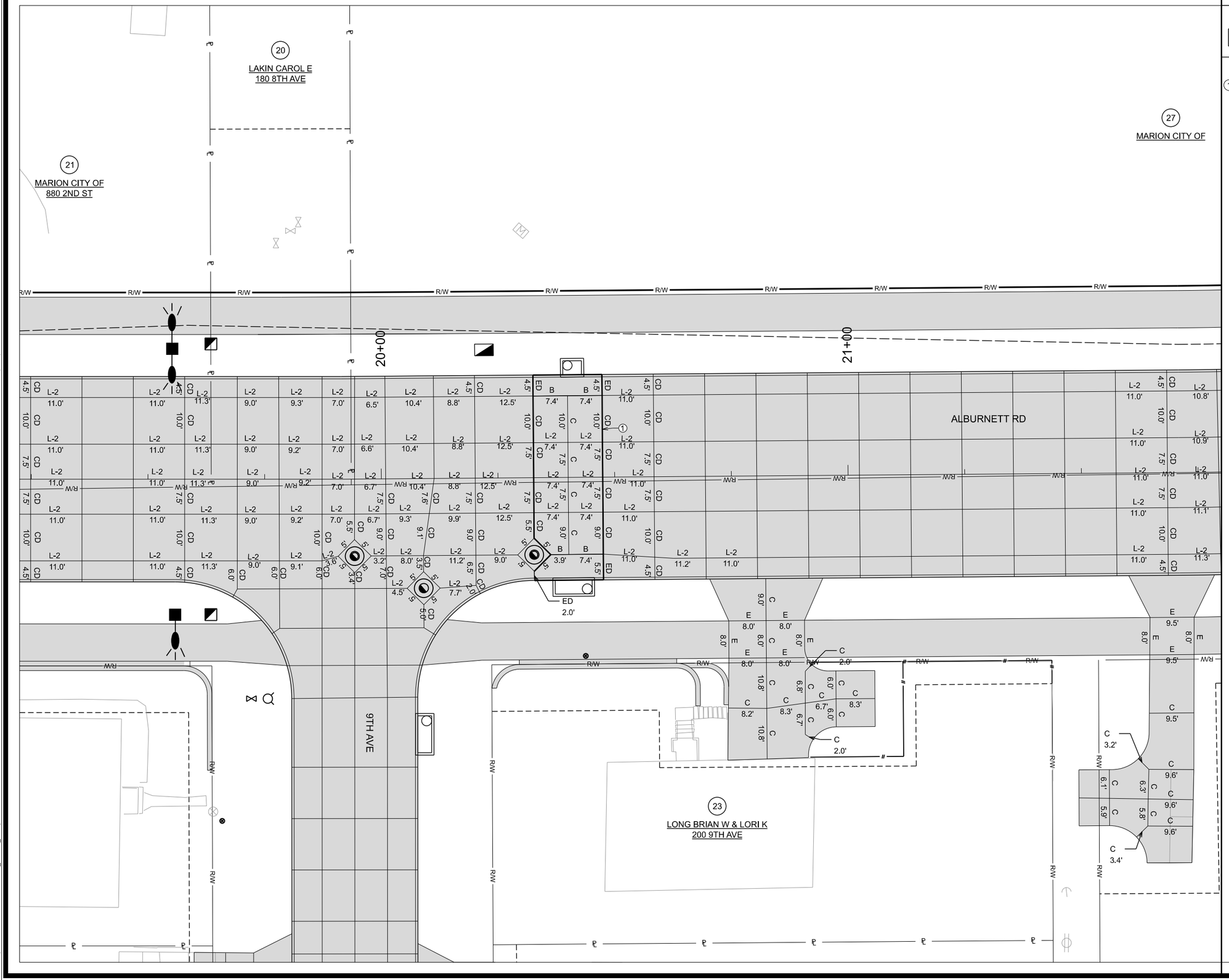
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CEDAR RAPIDS, IA 52404
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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.9

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

(1) UTILITY CROSSING REINFORCEMENT

- REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.

- KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.10

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

SNYDER & ASSOCIATES, INC.

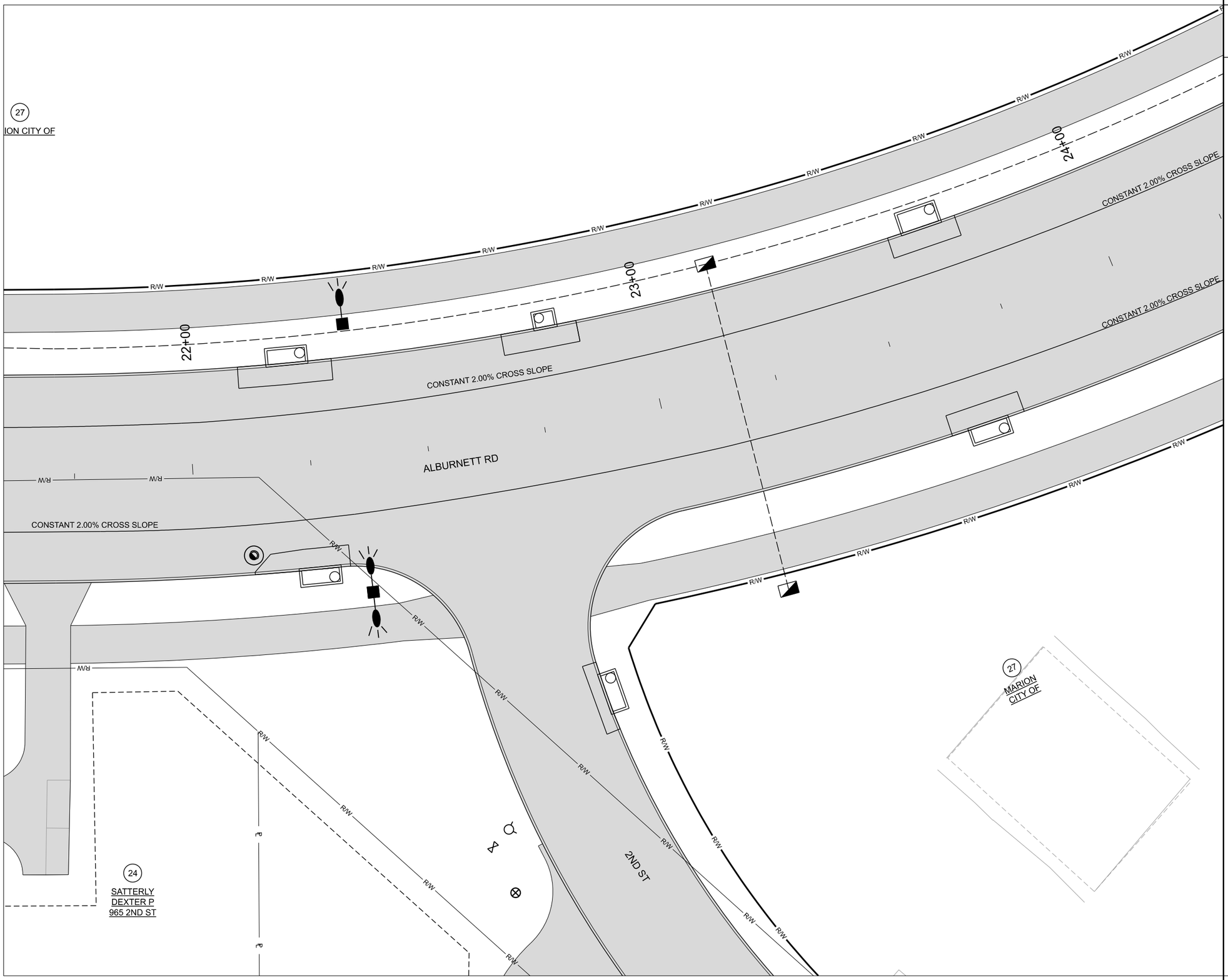
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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.10

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:

Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.11

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

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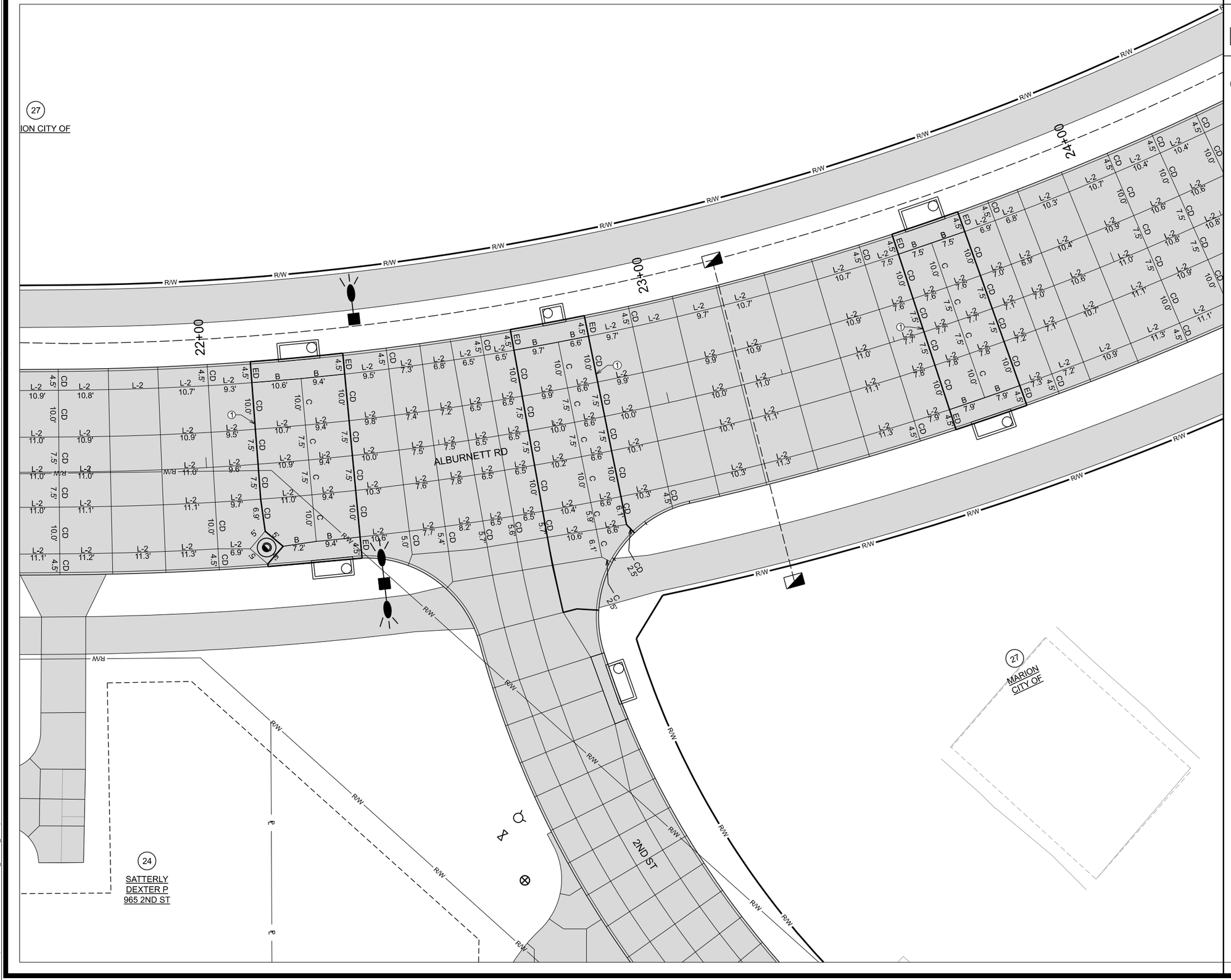
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Project No: 116.0663

Sheet L.11

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.12

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

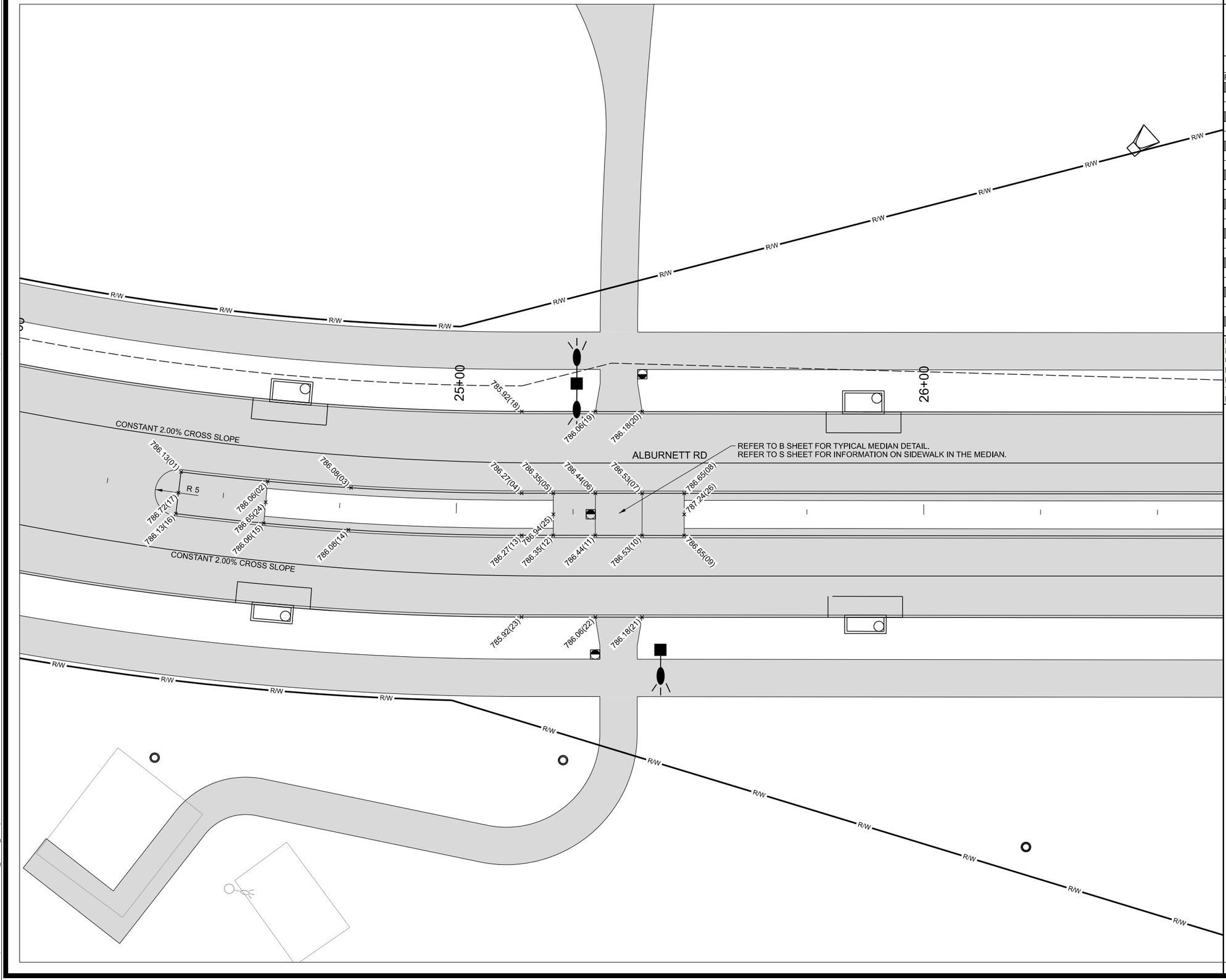
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Project No: 116.0663

Sheet L.12

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	24+40.40	-4.50	LT	EOR
2	24+59.18	-4.50	LT	
3	24+77.20	-4.50	LT	MP
4	25+13.99	-4.50	LT	EOR
5	25+20.76	-4.50	LT	
6	25+29.76	-4.50	LT	
7	25+39.76	-4.50	LT	
8	25+48.76	-4.50	LT	
9	25+48.76	4.50	RT	
10	25+39.76	4.50	RT	
11	25+29.76	4.50	RT	
12	25+20.76	4.50	RT	
13	25+13.99	4.50	RT	EOR
14	24+77.20	4.50	RT	MP
15	24+59.18	4.50	RT	
16	24+40.40	4.50	RT	EOR
17	24+40.40	0.00		RP
18	25+13.99	-22.00	LT	EOR
19	25+29.76	-22.00	LT	
20	25+39.76	-22.00	LT	
21	25+39.76	22.00	RT	
22	25+29.76	22.00	RT	
23	25+13.99	22.00	RT	EOR
24	24+59.18	0.00		TOM
25	25+20.81	0.00		TOM
26	25+48.76	0.00		TOM

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOM=TOP OF MEDIAN
MP=MIDPOINT OF RADIUS

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.13

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

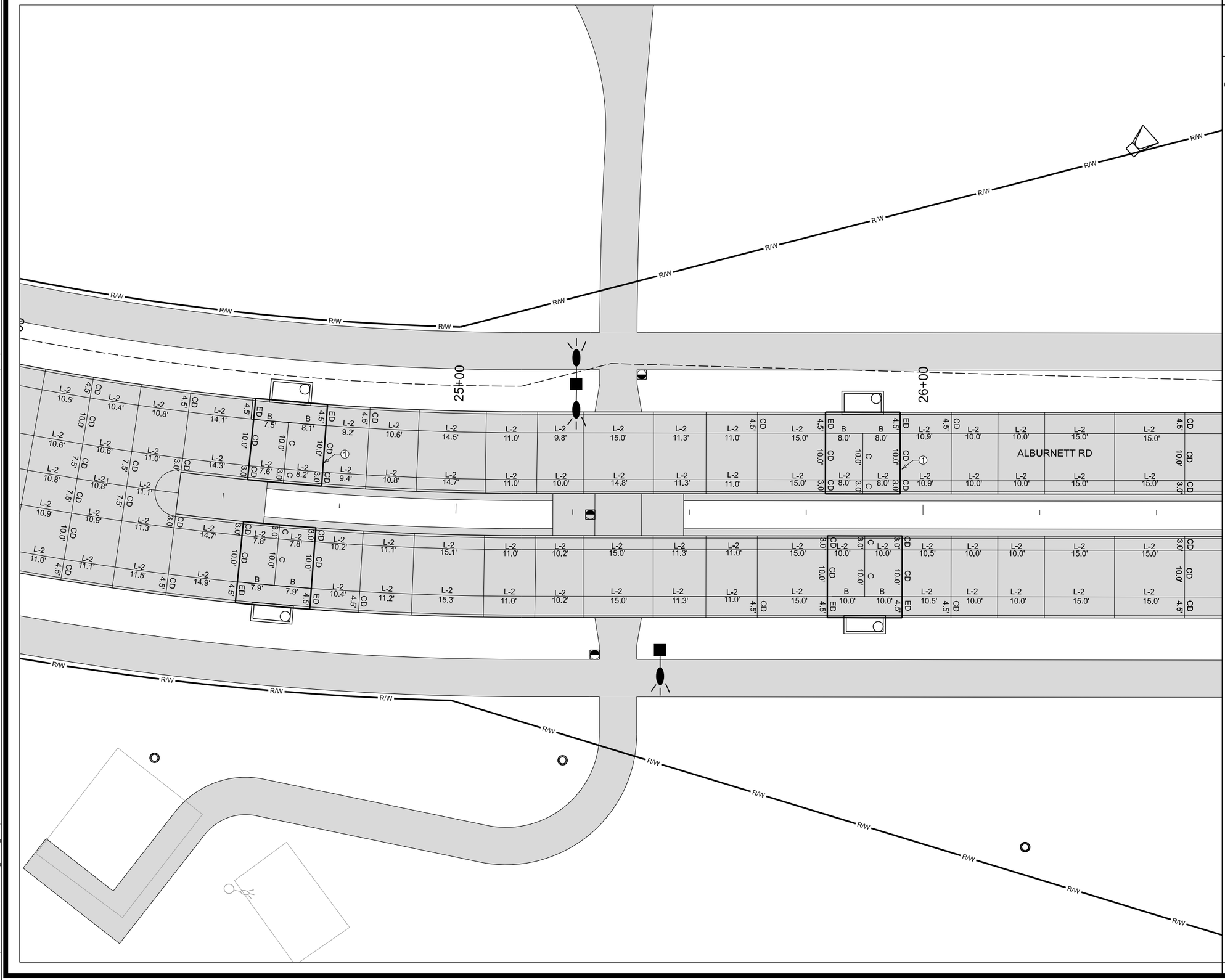
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Project No: 116.0663

Sheet L.13

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT

   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.

   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.14

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

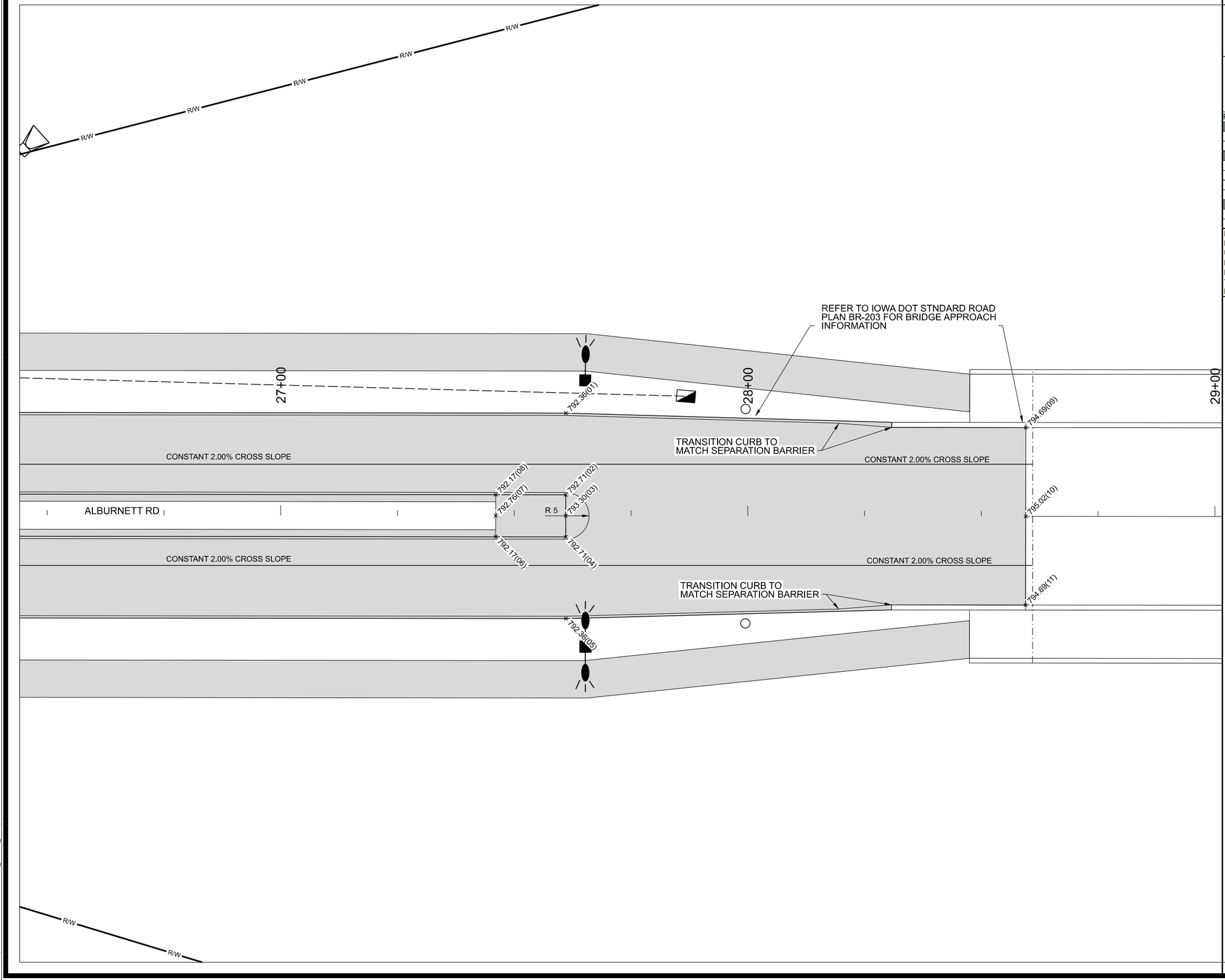
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Project No: 116.0663

Sheet L.14

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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

- REFER TO V SHEETS FOR BRIDGE INFORMATION

POINT #	STATION	OFFSET		NOTES
1	27+61.03	-22.00	LT	
2	27+61.03	-4.49	LT	
3	27+61.03	0.00		RP
4	27+61.03	4.51	RT	
5	27+61.09	22.00	RT	
6	27+46.03	4.51	RT	
7	27+46.08	0.00		
8	27+46.03	-4.49	LT	
9	28+59.50	-20.50	LT	
10	28+59.50	0.00	RT	
11	28+59.50	20.50	RT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet L.15

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

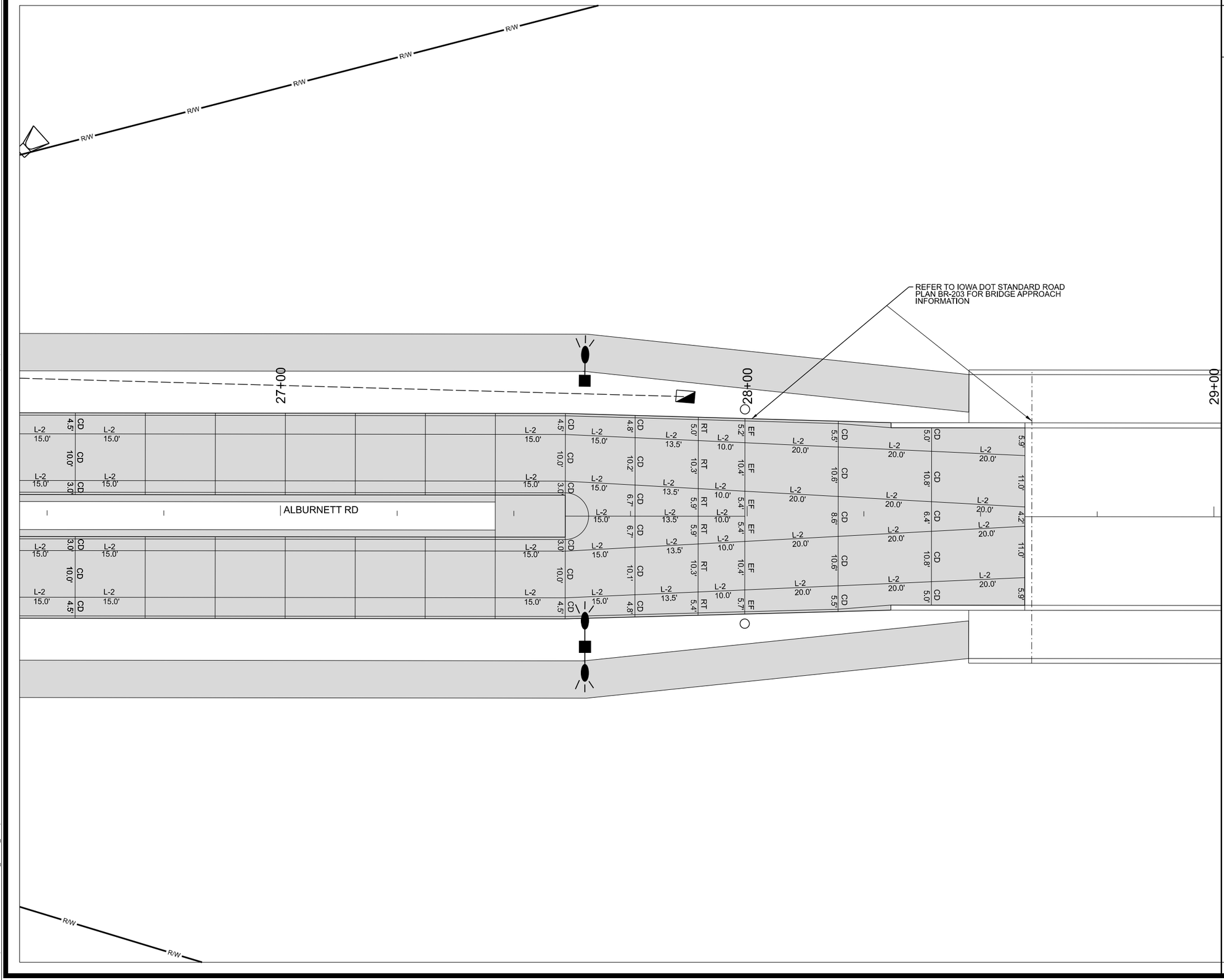
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Sheet L.15

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS
   - REFER TO V SHEETS FOR BRIDGE INFORMATION

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.16

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

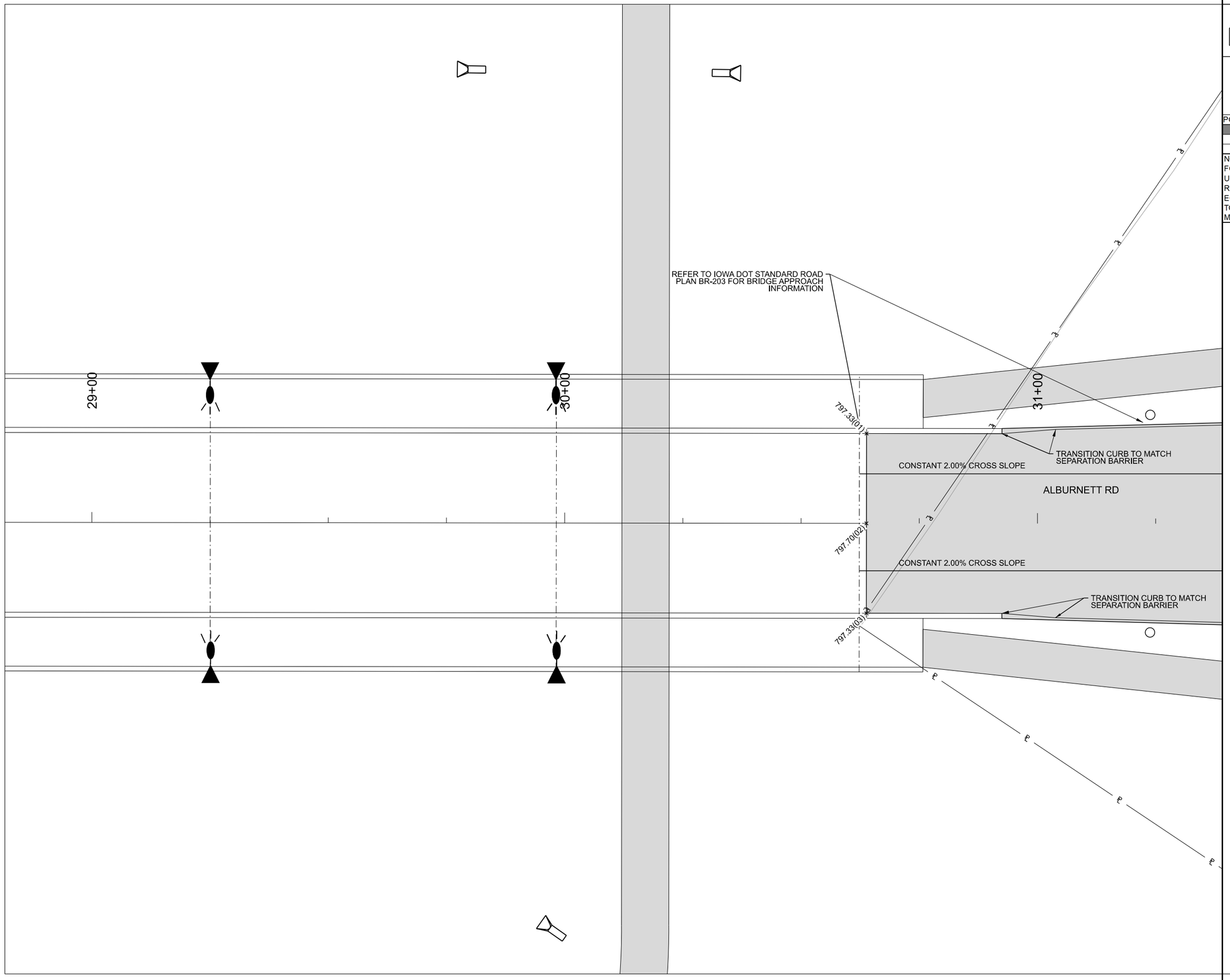
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Project No: 116.0663

Sheet L.16

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

- REFER TO V SHEETS FOR BRIDGE INFORMATION

POINT #	STATION	OFFSET		NOTES
1	30+63.83	20.50	LT	
2	30+63.83	0.00		
3	30+63.83	20.50	RT	

NOTE:ALL ELEVATIONS ARE
FORM GRADE OR TOP OF SLAB
UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.17

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

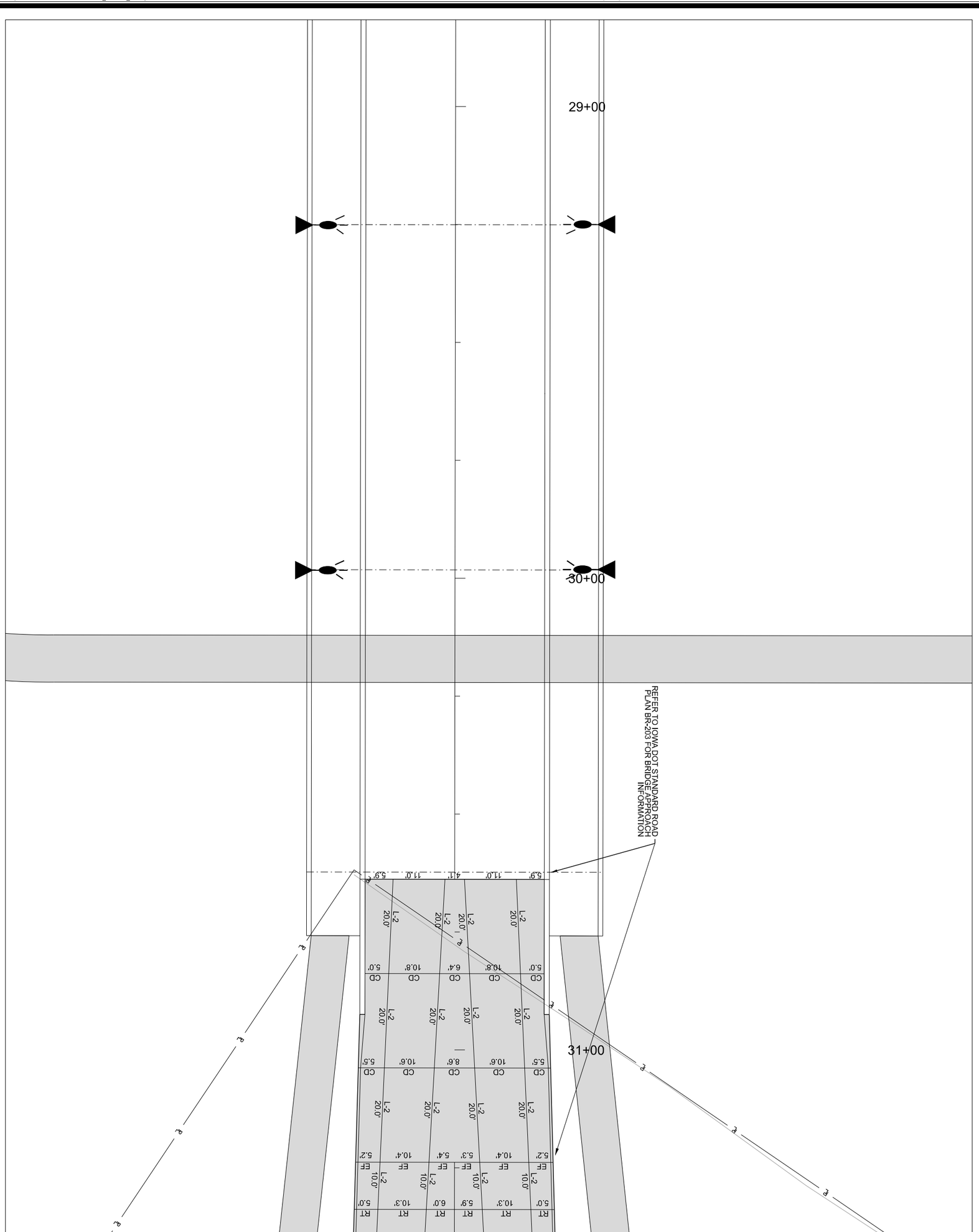
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Project No: 116.0663

Sheet L.17

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS
   - REFER TO V SHEETS FOR BRIDGE INFORMATION

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

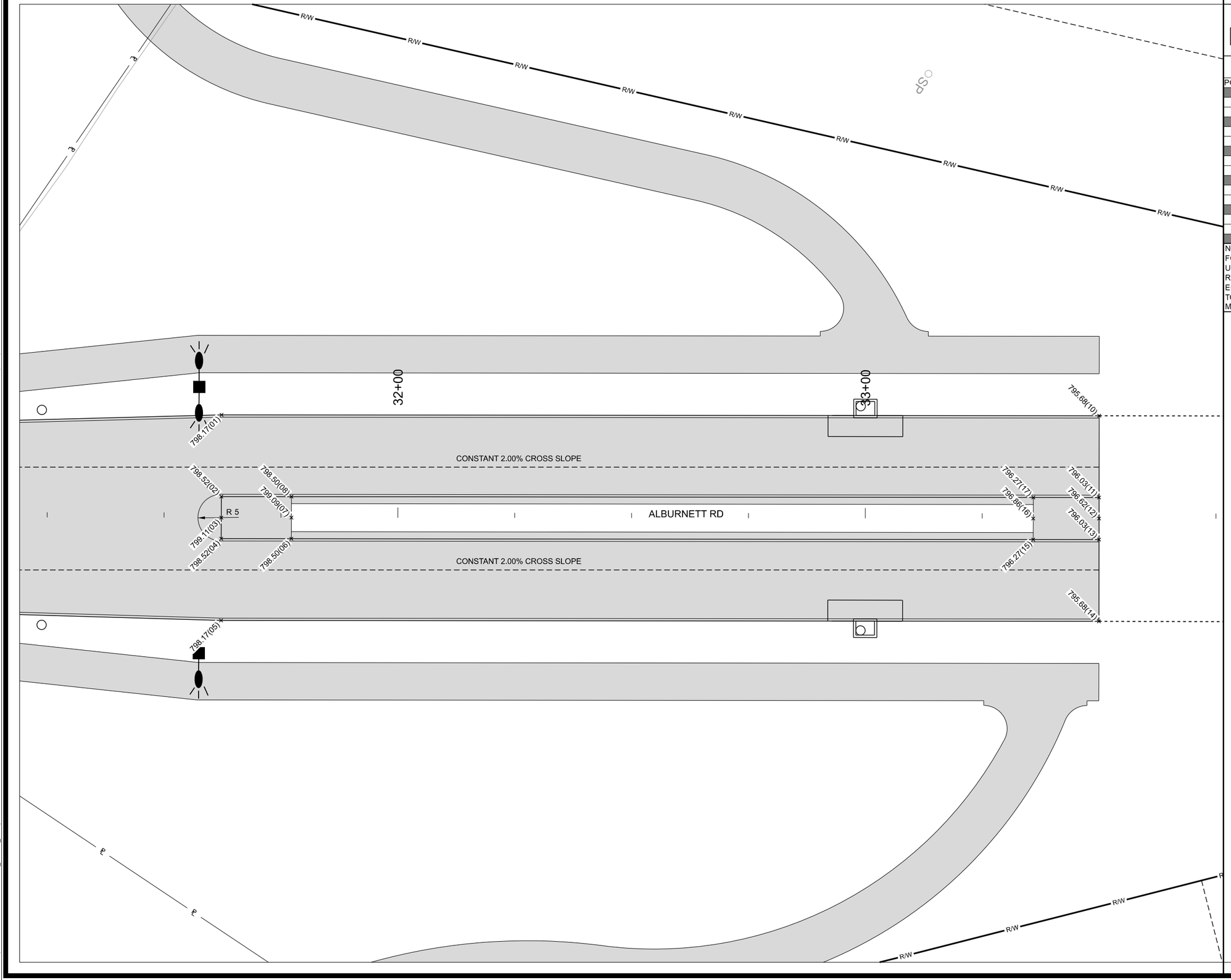
GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:
Project No: 116.0663		Sheet L.18	

Sheet L.18
Project No: 116.0663



LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	31+62.27	-22.00	LT	
2	31+62.24	-4.50	LT	
3	31+62.24	0.00		RP
4	31+62.23	4.50	RT	
5	31+62.21	22.00	RT	
6	31+77.23	4.50	RT	
7	31+77.24	0.00		TOM
8	31+77.24	-4.50	LT	
10	33+50.00	-22.00	LT	
11	33+50.00	-4.50	RT	
12	33+50.00	0.00		TOM
13	33+50.00	4.50	RT	
14	33+50.00	22.00	LT	
15	33+35.93	4.50	RT	
16	33+35.93	0.00		TOM
17	33+35.93	-4.50	LT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOM=TOP OF MEDIAN
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.19

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

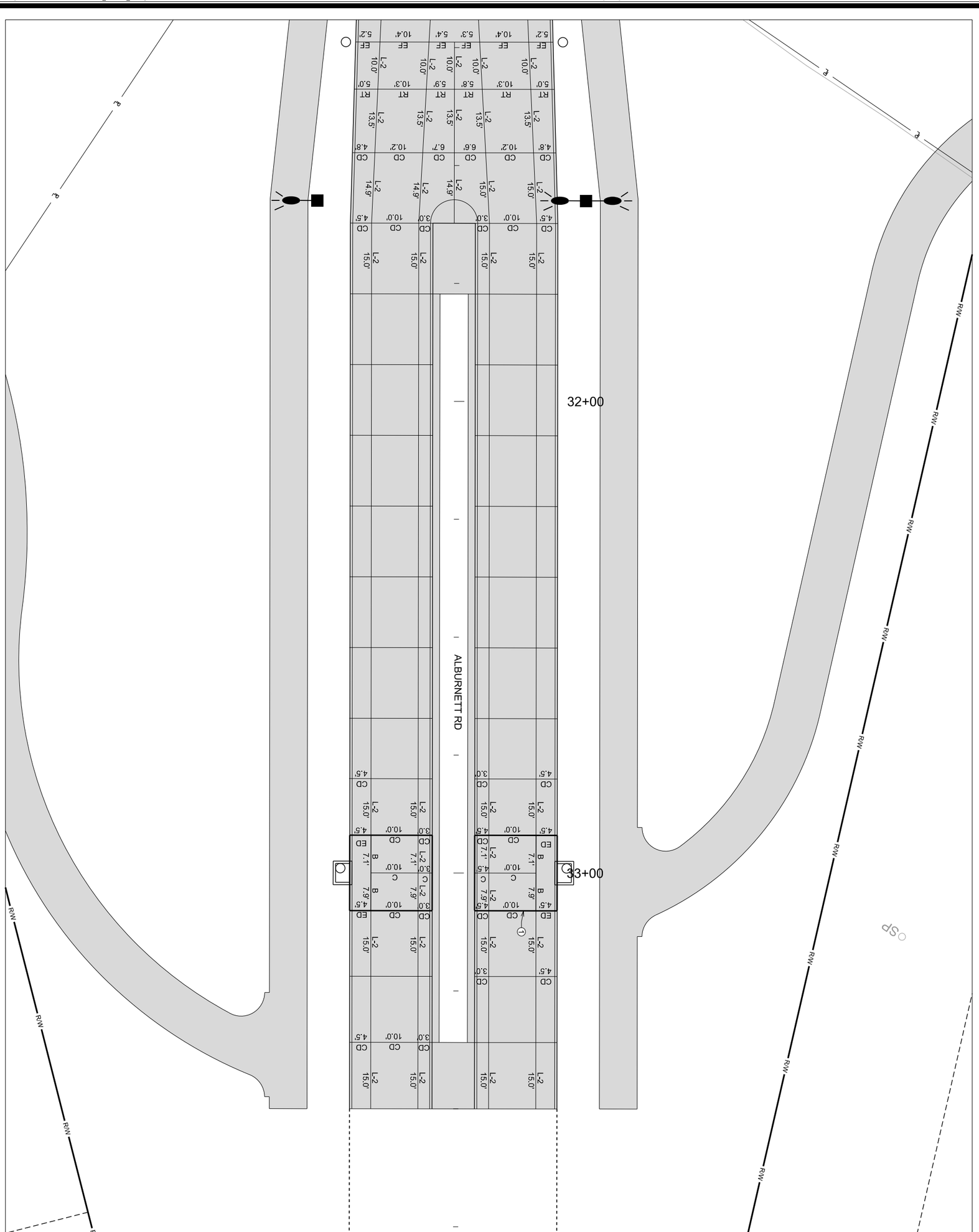
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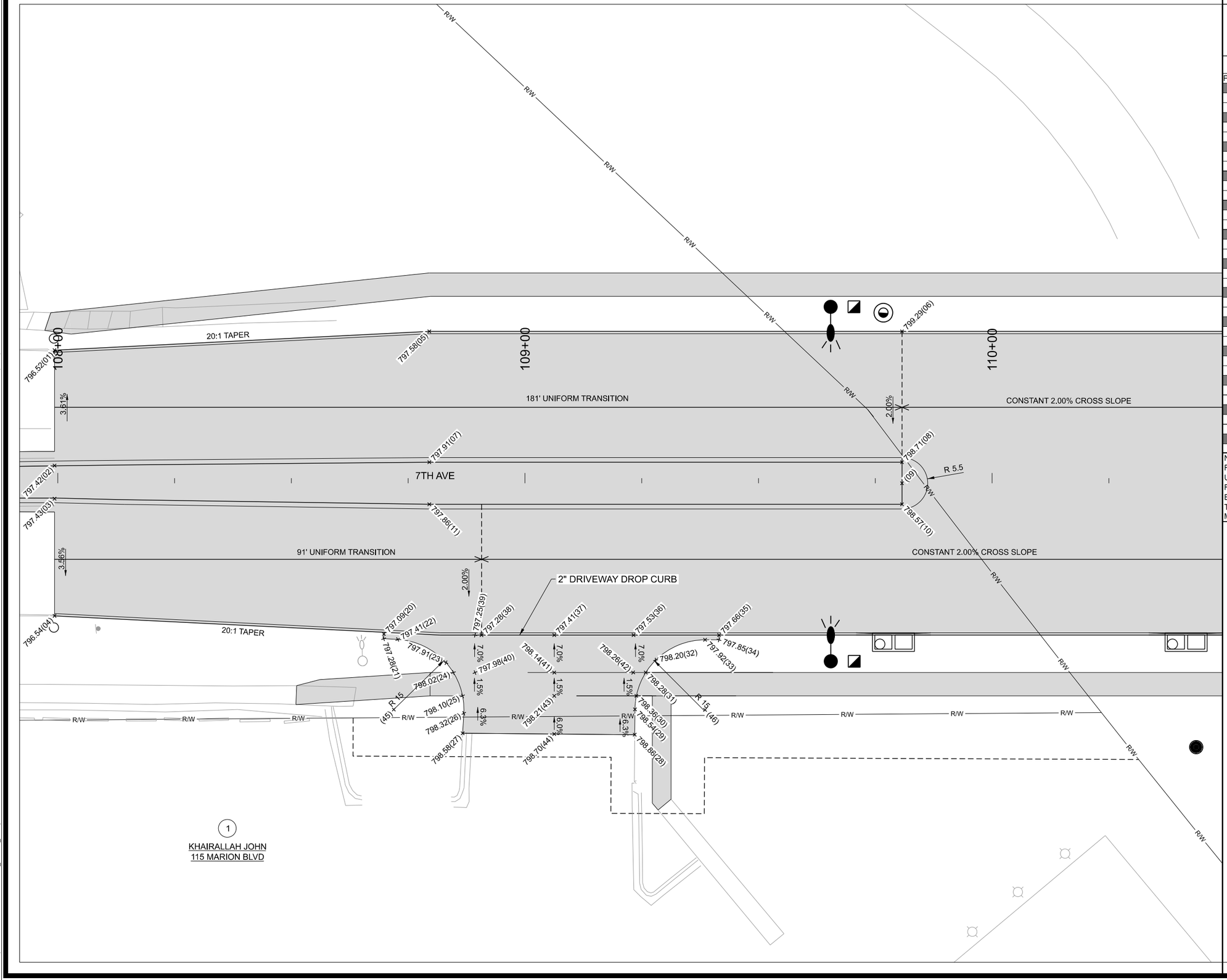
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Project No: 116.0663

Sheet L.19

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ALBURNETT RD
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RW



LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	107+99.30	28.49	LT	
2	107+99.30	3.80	LT	
3	107+99.30	3.30	RT	
4	107+99.30	28.37	RT	
5	108+79.52	32.50	LT	
6	109+80.70	32.50	LT	
7	108+79.52	4.50	LT	
8	109+80.70	4.50	LT	
9	109+80.70	0.00		RP
10	109+80.70	4.50	RT	
11	108+79.52	4.50	RT	
20	108+69.81	32.25	RT	
21	108+69.75	33.25	RT	
22	108+74.94	33.54	RT	EOR
23	108+83.10	38.39	RT	MP
24	108+84.68	40.50	RT	
25	108+86.64	45.50	RT	
26	108+86.90	49.23	RT	EOR
27	108+86.66	53.48	RT	
28	109+23.49	53.79	RT	
29	109+23.54	48.38	RT	EOR
30	109+23.84	45.50	RT	
31	109+25.85	40.50	RT	
32	109+27.98	37.85	RT	MP
33	109+38.54	33.50	RT	EOR
34	109+41.54	33.50	RT	
35	109+41.54	32.50	RT	
36	109+23.24	32.50	RT	
37	109+06.27	32.50	RT	
38	108+90.70	32.50	RT	
39	108+89.30	32.50	RT	
40	108+89.30	40.50	RT	
41	109+06.27	40.50	RT	
42	109+23.16	40.50	RT	
43	109+06.27	45.50	RT	
44	109+06.27	53.65	RT	
45	108+71.92	48.39	RT	RP
46	109+38.54	48.50	RT	RP

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.21

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

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Project No: 116.0663

Sheet L.21

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

1 KHAIRALLAH JOHN
115 MARION BLVD

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS	5/13/2026	
MARK:	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:
Project No: 116.0663		Sheet L.22	

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

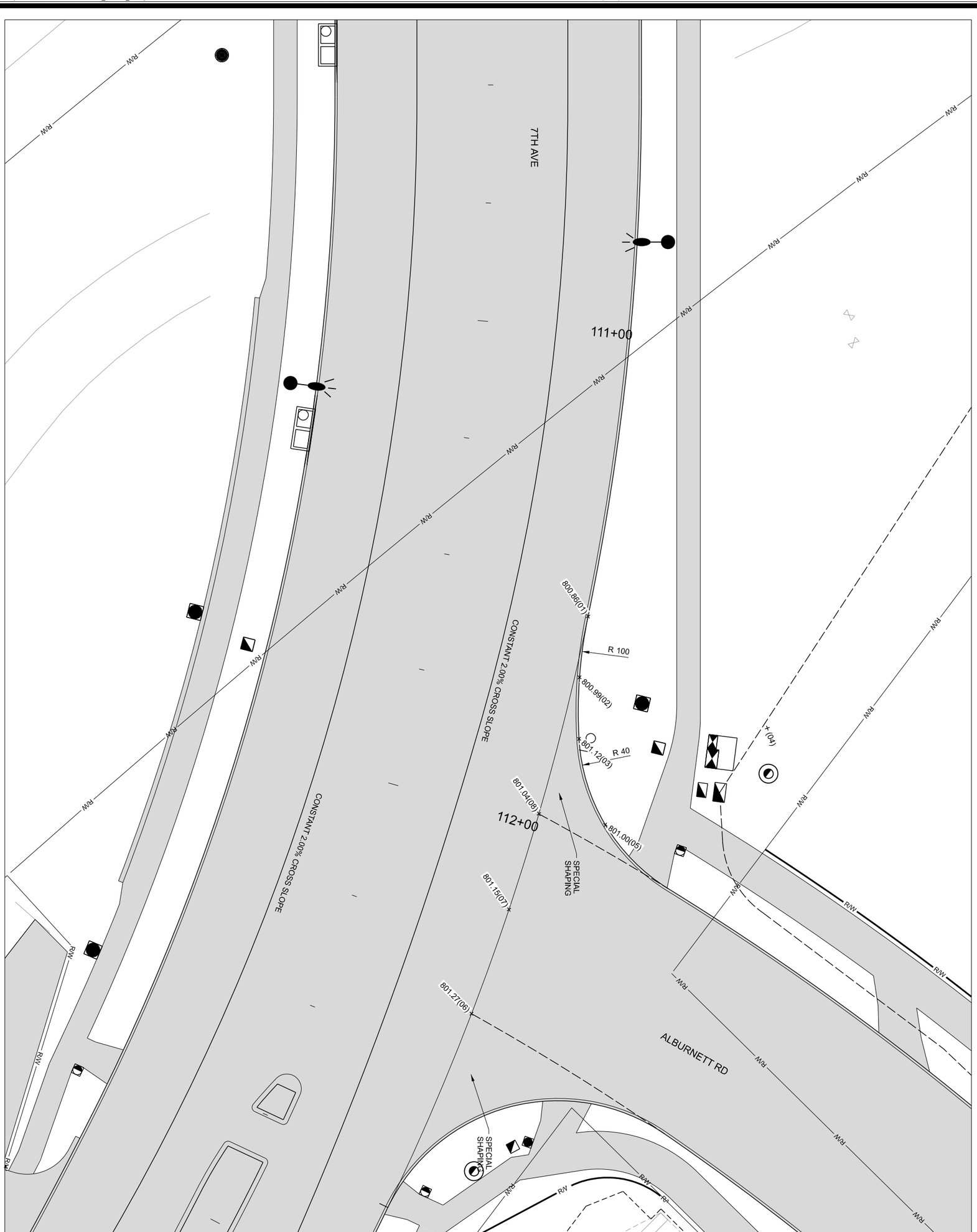
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Project No: 116.0663

Sheet L.22



NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

POINT #	STATION	OFFSET	NOTES
1	111+56.80	-32.50	RT EOR
2	111+69.01	-33.51	LT MP
3	111+80.89	-36.50	LT EOR
4	111+70.31	-74.74	LT RP
5	111+95.79	-46.68	LT MP
6	112+39.14	-30.50	LT MP
7	112+17.35	-30.50	LT
8	111+96.97	-30.50	LT

LEGEND
PROPOSED PAVEMENT IMPROVEMENTS

Sheet L.23
Project No: 116.0663

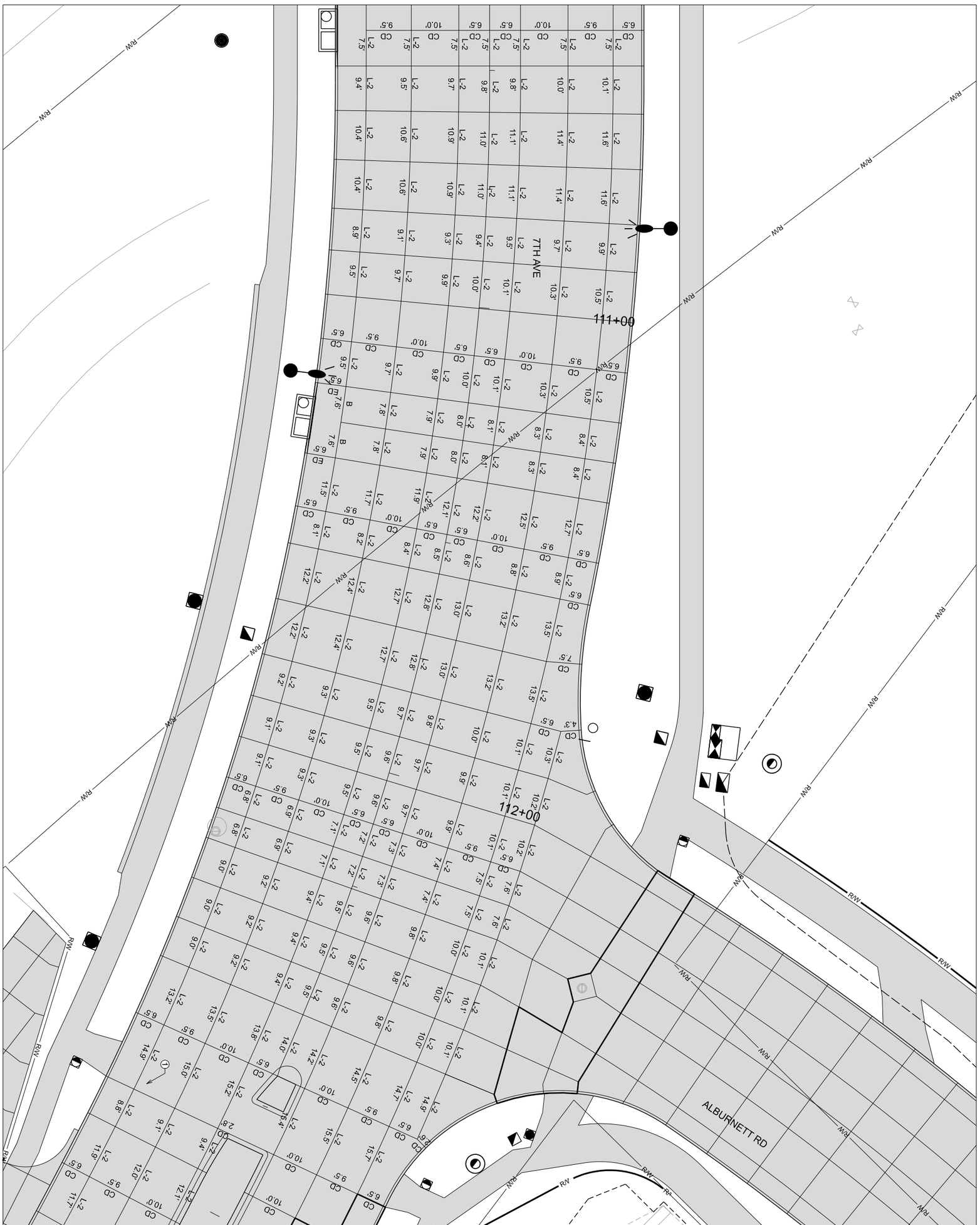
SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING — **CITY OF MARION, IOWA**

SNYDER & ASSOCIATES, INC. | 900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

DOT PROJECT NUMBER: HDP-4775(646)--71-57				
FINAL PLANS			5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/8/2026		Field Bk:	Pg:
Project No: 116.0663			Sheet L.23	



NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

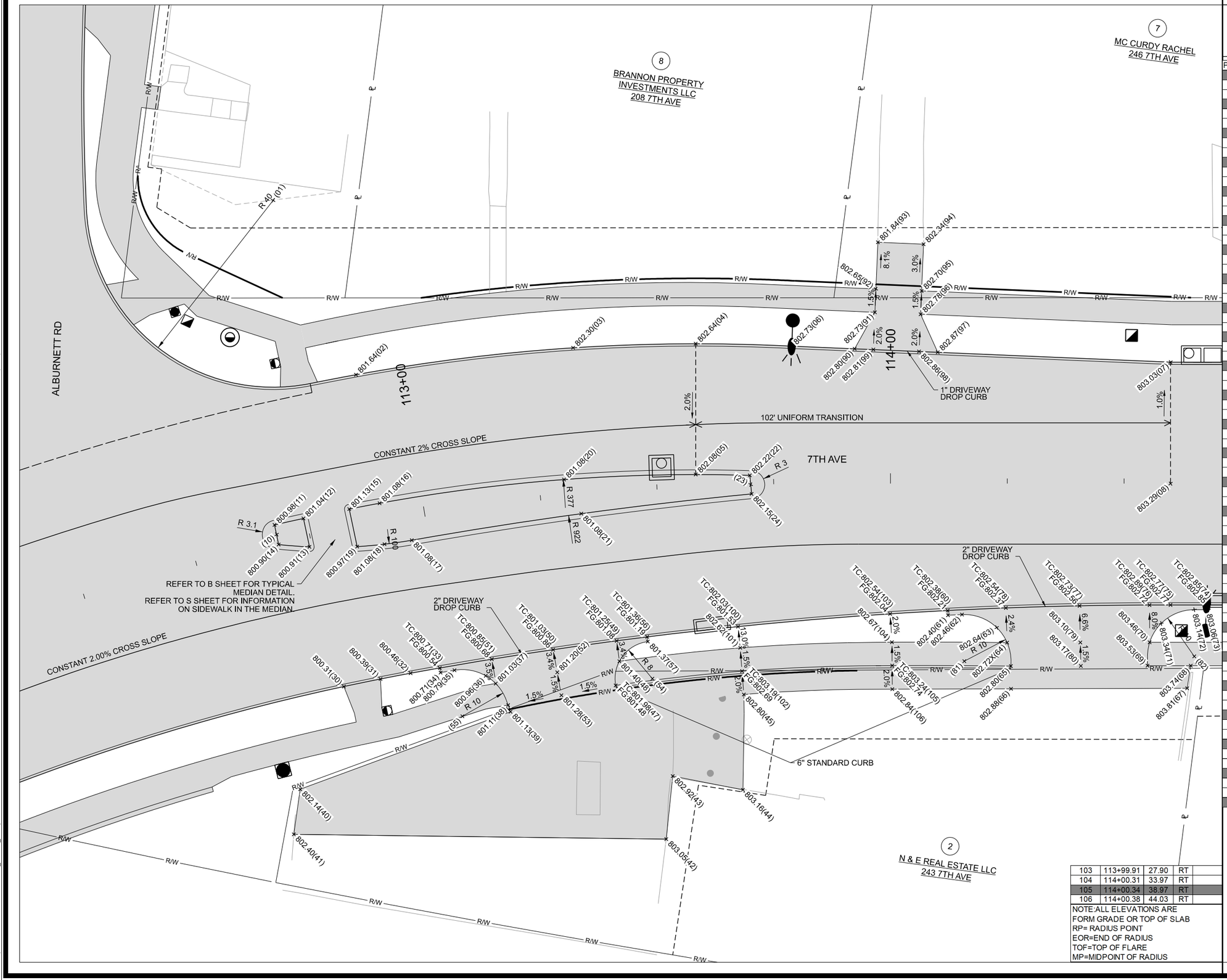
CITY OF MARION, IOWA

SNYDER & ASSOCIATES

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

DOT PROJECT NUMBER: HDP-4775(646)--71-57	
FINAL PLANS	5/13/2026
MARK / REVISION	DATE / BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026
Field Bk:	Pg:
Project No: 116.0663	Sheet L.24

Sheet L.24
Project No: 116.0663



POINT #	STATION	OFFSET		NOTES
1	112+81.51	72.50	LT	RP
2	112+90.91	32.50	LT	EOR
3	113+35.05	31.75	LT	MP
4	113+59.84	30.67	LT	
5	113+58.44	2.71	LT	
6	113+79.27	29.49	LT	EOR
7	114+59.95	26.00	LT	EOR
8	114+59.95	0.00		
10	112+68.15	2.41	LT	RP
11	112+68.14	4.50	LT	
12	112+74.44	4.50	LT	
13	112+74.41	1.72	RT	
14	112+68.07	0.22	LT	
15	112+84.35	4.50	LT	
16	112+90.91	4.50	LT	EOR
17	112+96.31	4.49	RT	EOR
18	112+90.38	4.31	RT	MP
19	112+84.48	3.72	RT	EOR
20	113+30.40	3.89	LT	MP
21	113+33.32	3.77	RT	MP
22	113+69.94	2.04	LT	EOR
23	113+70.07	0.04	LT	RP
24	113+70.20	1.95	RT	EOR
30	112+75.35	32.50	RT	
31	112+83.89	32.50	RT	
32	112+90.91	32.50	RT	
33	112+97.67	32.48	RT	
34	112+97.67	33.48	RT	
35	113+00.87	33.46	RT	EOR
36	113+07.76	35.67	RT	MP
37	113+09.76	37.61	RT	
38	113+11.88	42.54	RT	EOR
39	113+12.24	44.05	RT	
40	112+60.01	51.82	RT	
41	112+55.89	60.86	RT	
42	113+46.24	74.80	RT	
43	113+48.97	61.43	RT	
44	113+65.83	65.20	RT	
45	113+66.92	44.81	RT	
47	113+37.26	41.08	RT	EOR
48	113+38.62	36.01	RT	MP
49	113+38.43	31.60	RT	
50	113+23.83	32.07	RT	
51	113+09.69	32.36	RT	
52	113+24.15	36.97	RT	
53	113+24.48	41.96	RT	
54	113+45.89	40.31	RT	RP
55	113+00.98	43.46	RT	RP
56	113+45.44	31.32	RT	
57	113+45.49	32.32	RT	EOR
60	114+12.24	27.18	RT	
61	114+12.29	28.18	RT	
62	114+15.29	28.03	RT	EOR
63	114+22.73	30.82	RT	MP
64	114+24.97	34.05	RT	
65	114+25.78	39.07	RT	EOR
66	114+25.80	43.94	RT	
67	114+63.49	43.82	RT	
68	114+64.27	39.00	RT	
69	114+55.02	39.00	RT	EOR
70	114+55.47	34.00	RT	
71	114+57.93	29.94	RT	MP
72	114+65.01	27.00	RT	EOR
73	114+68.01	27.00	RT	
74	114+68.01	26.00	RT	
75	114+59.95	26.00	RT	
76	114+55.45	26.00	RT	
77	114+40.47	26.18	RT	
78	114+24.69	26.63	RT	
79	114+40.63	34.02	RT	
80	114+40.73	39.03	RT	
81	114+15.79	38.02	RT	RP
82	114+65.01	37.00	RT	RP
100	113+66.18	30.25	RT	
101	113+66.49	34.80	RT	
102	113+66.70	39.80	RT	
103	113+99.91	27.90	RT	
104	114+00.31	33.97	RT	
105	114+00.34	38.97	RT	
106	114+00.38	44.03	RT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.25

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.25

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8A
BRANNON PROPERTY INVESTMENTS LLC
200 7TH AVE

8
BRANNON PROPERTY INVESTMENTS LLC
208 7TH AVE

7
MC CURDY RACHEL
246 7TH AVE

ALBURNETT RD

7TH AVE

2
N & E REAL ESTATE LLC
243 7TH AVE

113+00

114+00

LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

0 10 20
FEET

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026

Project No: 116.0663

Sheet L.26

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

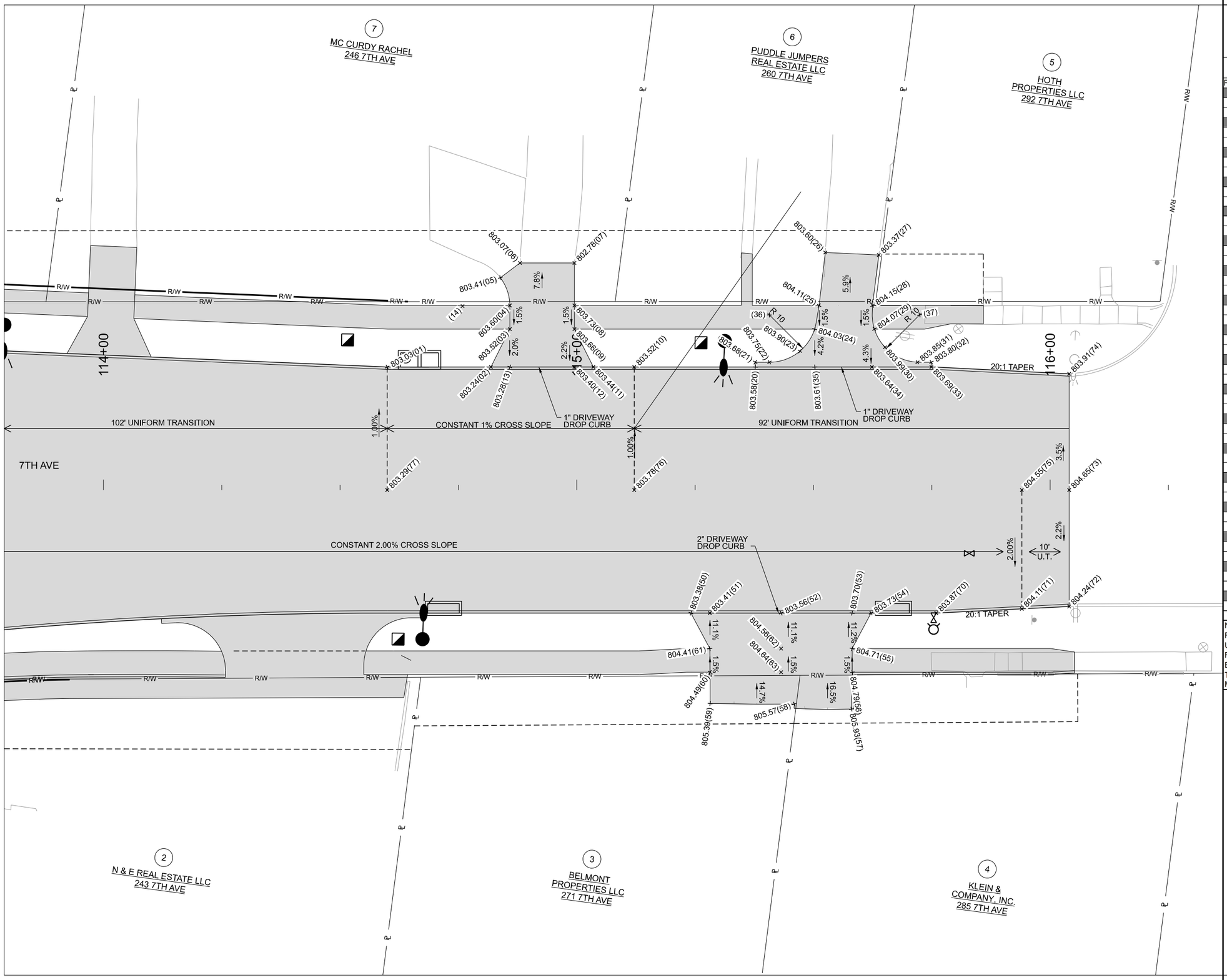
CITY OF MARION, IOWA

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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.26



LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	114+59.95	26.00	LT	
2	114+81.87	26.00	LT	
3	114+85.87	34.00	LT	
4	114+85.87	39.00	LT	EOR
5	114+83.87	44.88	LT	EOR
6	114+88.01	47.99	LT	
7	114+99.52	48.00	LT	
8	114+99.51	39.00	LT	
9	114+99.51	34.00	LT	
10	115+12.16	26.00	LT	
11	115+03.51	26.00	LT	
12	114+99.51	26.00	LT	
13	114+85.87	26.00	LT	
14	114+75.87	38.88	LT	RP
20	115+37.72	26.00	LT	
21	115+37.72	27.00	LT	
22	115+40.72	27.00	LT	EOR
23	115+47.16	29.35	LT	MP
24	115+50.26	34.00	LT	
25	115+51.22	39.00	LT	
26	115+52.52	50.19	LT	
27	115+63.81	49.67	LT	
28	115+62.48	39.00	LT	
29	115+62.89	34.00	LT	
30	115+65.13	30.17	LT	MP
31	115+71.98	27.01	LT	EOR
32	115+74.93	27.00	LT	
33	115+74.93	26.00	LT	
34	115+62.36	26.00	LT	
35	115+50.31	26.00	LT	
36	115+40.72	37.00	LT	RP
37	115+72.43	37.00	LT	RP
50	115+24.13	26.00	RT	
51	115+28.12	26.00	RT	
52	115+43.18	26.00	RT	
53	115+58.17	26.00	RT	
54	115+62.17	26.00	RT	
55	115+58.17	33.50	RT	
56	115+58.21	38.50	RT	
57	115+58.04	46.28	RT	
58	115+45.96	45.21	RT	
59	115+28.19	45.10	RT	
60	115+28.17	38.50	RT	
61	115+28.12	33.50	RT	
62	115+43.19	33.50	RT	
63	115+43.19	38.50	RT	
70	115+75.97	26.00	RT	
71	115+94.03	25.10	RT	
72	116+04.02	24.60	RT	
73	116+04.04	0.00		
74	116+04.05	24.57	LT	
75	115+03.51	0.00		
76	115+12.16	0.00		
77	114+59.95	0.00		

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.27

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

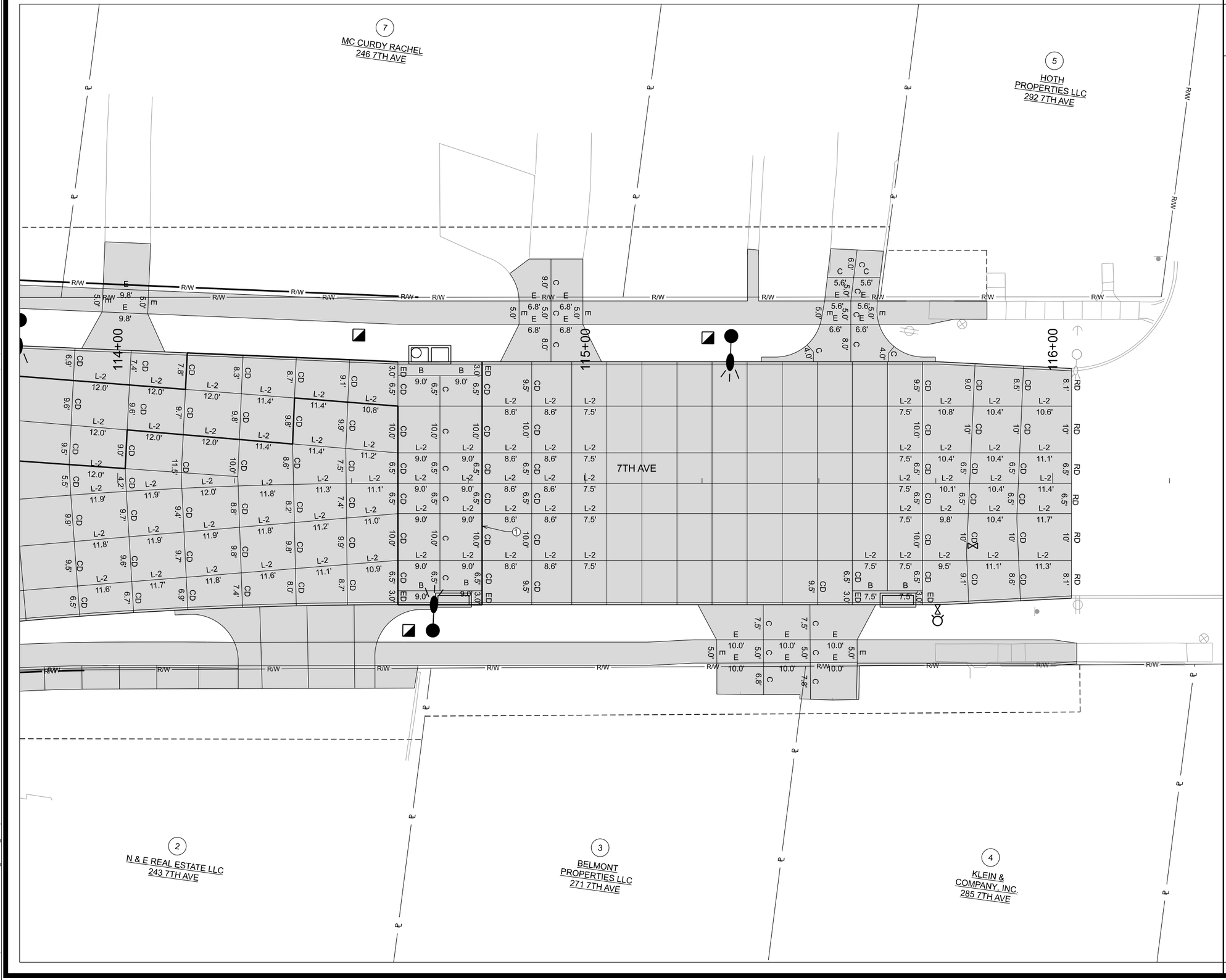
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.27

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT

   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.

   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.28

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

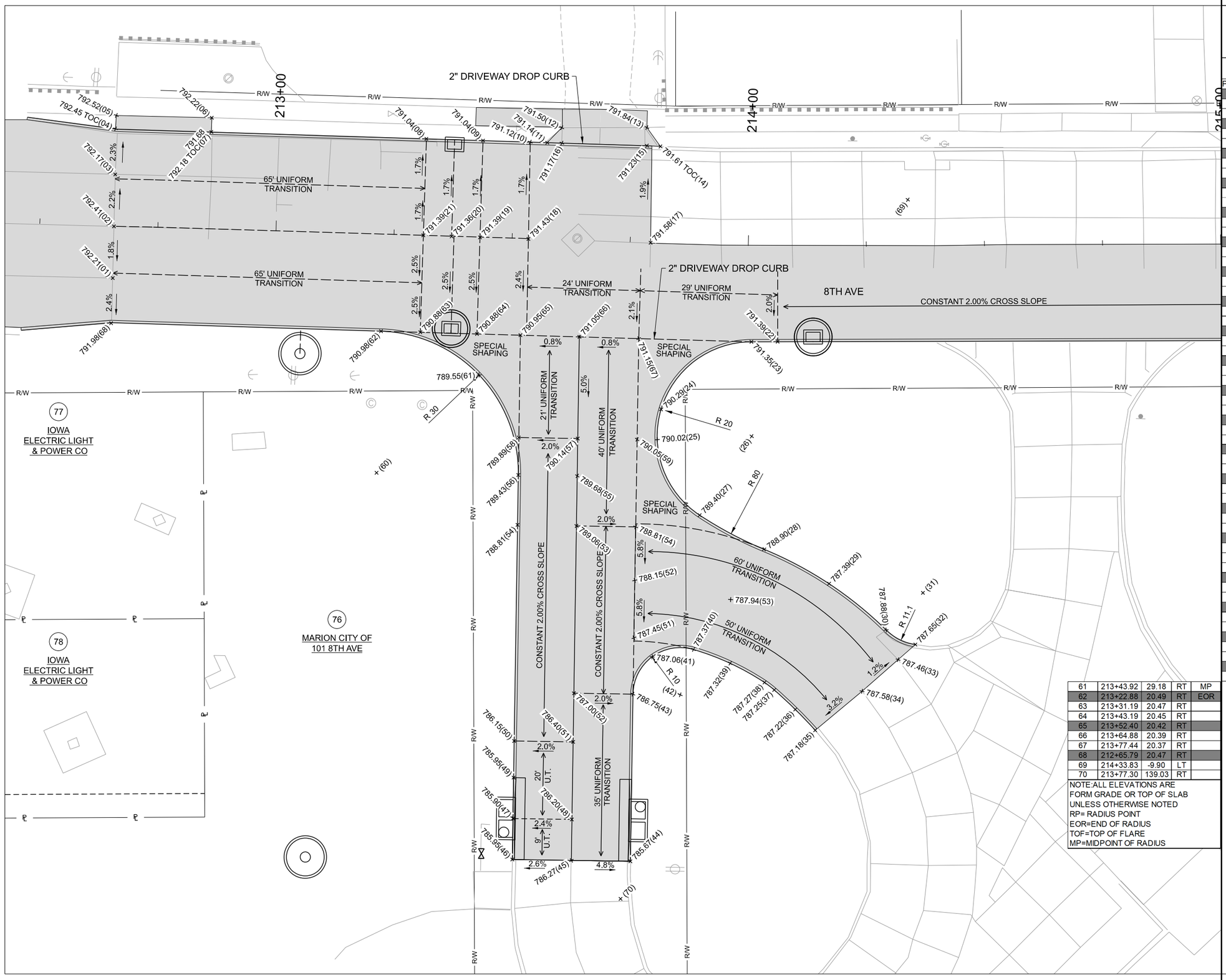
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CEDAR RAPIDS, IA 52404
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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.28

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	212+65.79	11.03	RT	
2	212+65.69	0.08	RT	
3	212+65.61	-10.91	LT	
4	212+65.39	-20.58	LT	
5	212+65.46	-23.41	LT	
6	212+85.67	-23.54	LT	
7	212+85.68	-20.52	LT	
8	213+31.21	-20.50	LT	
9	213+43.21	-20.50	LT	
10	213+53.21	-20.50	LT	
11	213+56.78	-20.49	LT	
12	123+59.92	23.89	LT	
13	213+77.78	-24.35	LT	
14	213+80.78	-20.42	LT	
15	213+77.91	-20.50	LT	
16	213+59.89	-20.49	LT	
17	213+79.32	0.00		
18	213+53.45	0.00		
19	213+43.21	0.00		
20	213+37.20	0.00		
21	213+31.20	-0.07	LT	
22	214+06.86	20.12	RT	
23	214+01.31	20.31	RT	EOR
24	213+82.66	35.17	RT	MP
25	213+82.03	41.64	RT	
26	214+01.99	40.30	RT	RP
27	213+91.50	57.33	RT	EOR
28	214+05.38	61.12	RT	EOR
29	214+16.75	71.29	RT	MP
30	214+28.78	81.16	RT	EOR
31	214+36.59	73.34	RT	RP
32	214+34.92	84.26	RT	EOR
33	214+31.26	87.45	RT	
34	214+23.60	94.11	RT	
35	214+13.64	102.30	RT	EOR
36	214+09.45	97.88	RT	MP
37	214+08.42	93.81	RT	EOR
38	214+06.32	92.31	RT	EOR
39	213+98.95	88.47	RT	MP
40	213+91.09	85.79	RT	EOR
41	213+82.39	87.62	RT	MP
42	213+88.58	95.47	RT	RP
43	213+78.58	95.63	RT	EOR
44	213+79.14	131.03	RT	
45	213+66.64	131.23	RT	
46	213+54.14	131.43	RT	
47	213+54.00	122.76	RT	
48	213+66.50	122.56	RT	
49	213+53.87	114.09	RT	
50	213+53.74	106.32	RT	
51	213+66.24	106.13	RT	
52	213+66.08	95.82	RT	
53	213+65.51	60.41	RT	
54	213+53.03	60.60	RT	
55	213+65.34	49.82	RT	
56	213+52.86	50.02	RT	EOR
57	213+65.22	41.90	RT	
58	213+52.74	42.10	RT	
59	213+77.77	41.71	RT	
60	213+22.86	50.49	RT	RP
61	213+43.92	29.18	RT	MP
62	213+22.86	20.49	RT	EOR
63	213+31.19	20.47	RT	
64	213+43.19	20.45	RT	
65	213+52.40	20.42	RT	
66	213+64.88	20.39	RT	
67	213+77.44	20.37	RT	
68	212+65.79	20.47	RT	
69	214+33.83	-9.90	LT	
70	213+77.30	139.03	RT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/8/2026
Project No: 116.0663 Sheet L.29

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663
Sheet L.29

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

213+00 214+00 215+00

8TH AVE

POSSIBLE 1'-9" SLEEPER SLAB (BR-205)

77 IOWA ELECTRIC LIGHT & POWER CO

78 IOWA ELECTRIC LIGHT & POWER CO

76 MARION CITY OF 101 8TH AVE

0 10 20 FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
	MARK:	REVISION	DATE BY
	Engineer: MGB	Checked By: DMS	T-R-S:
	Technician: KMM	Date: 5/8/2026	Sheet L.30
		Project No: 116.0663	

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

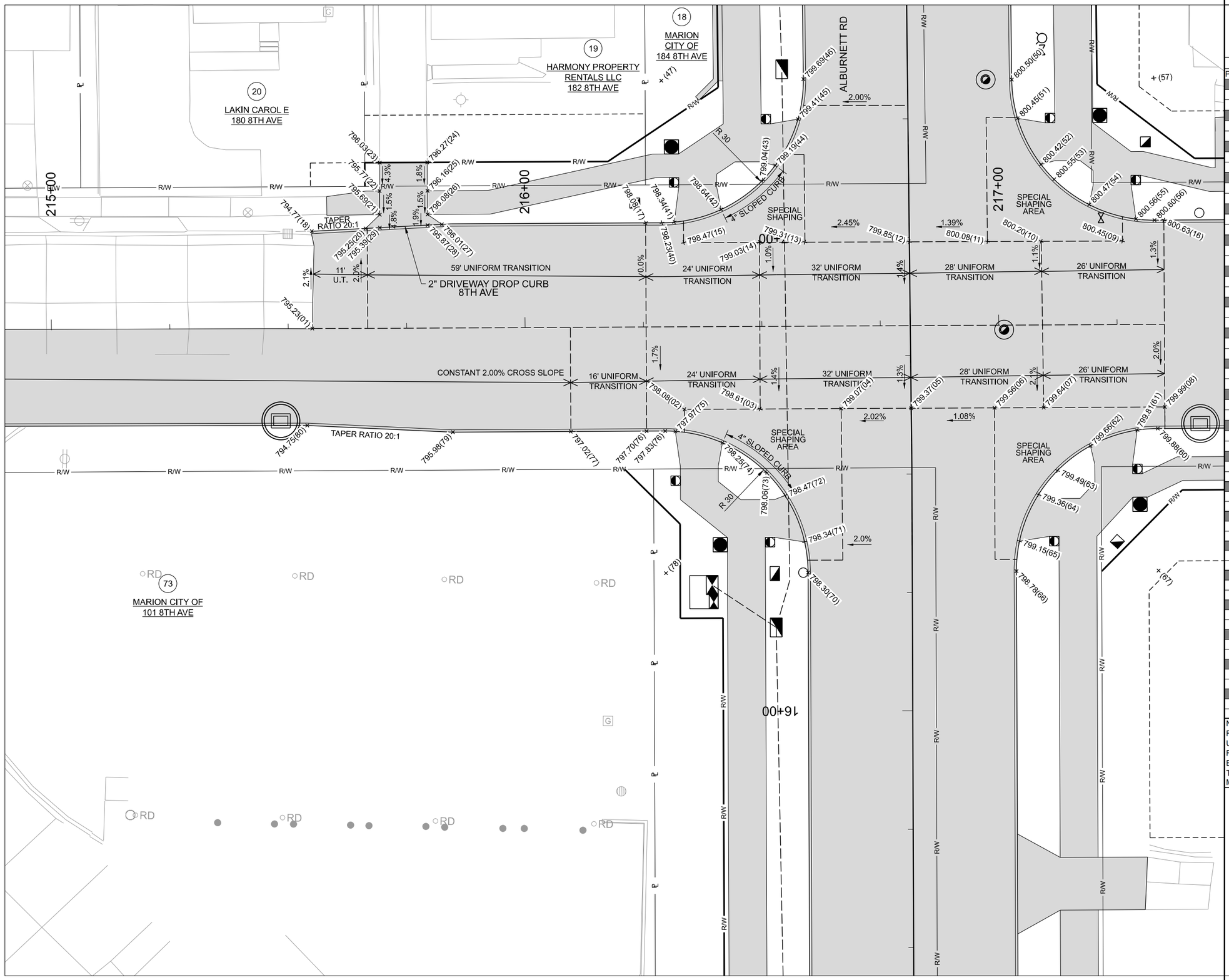
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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.30

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POINT #	STATION	OFFSET		NOTES
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2	216+33.56	17.44	RT	
3	216+49.56	17.44	RT	
4	216+66.64	17.44	RT	
5	216+81.44	17.45	RT	
6	216+99.04	17.45	RT	
7	217+09.43	17.45	RT	
8	217+34.98	17.46	RT	
9	217+26.25	17.63	LT	
10	217+09.07	17.76	LT	
11	216+97.73	17.76	LT	
12	216+81.23	17.76	LT	
13	216+59.17	17.76	LT	
14	216+49.58	17.76	LT	
15	216+33.58	17.76	LT	
16	217+34.98	22.00	LT	
17	216+25.58	22.00	LT	
18	215+55.08	20.59	LT	
20	215+66.45	21.12	LT	
21	215+69.45	24.00	LT	
22	215+69.45	29.00	LT	
23	215+69.50	35.00	LT	
24	215+79.53	35.00	LT	
25	215+79.55	29.00	LT	
26	215+79.55	24.00	LT	
27	215+82.55	21.90	LT	
28	215+79.55	21.76	LT	
29	215+69.45	21.27	LT	
40	216+29.02	22.00	LT	EOR
41	216+31.62	22.11	LT	
42	216+41.53	24.73	LT	
43	216+50.30	30.85	LT	MP
44	216+52.99	33.96	LT	
45	216+57.86	43.72	LT	
46	216+59.02	52.18	LT	EOR
47	216+29.02	52.00	LT	RP
50	217+03.03	51.82	LT	EOR
51	217+04.21	43.65	LT	
52	217+09.12	33.88	LT	
53	217+11.88	30.72	LT	MP
54	217+19.22	25.36	LT	
55	217+29.11	22.26	LT	
56	217+33.03	22.00	LT	EOR
57	217+33.03	52.00	LT	RP
60	217+33.48	22.00	RT	EOR
61	217+29.12	22.32	RT	
62	217+19.24	25.59	RT	
63	217+12.28	30.77	RT	MP
64	217+08.23	35.81	RT	
65	217+04.16	45.63	RT	
66	217+03.48	51.96	RT	EOR
67	217+33.48	52.00	RT	RP
70	216+59.48	52.04	RT	EOR
71	216+58.78	45.56	RT	
72	216+54.69	35.73	RT	
73	216+50.71	30.80	RT	MP
74	216+41.55	24.54	RT	
75	216+31.63	22.08	RT	
76	216+29.48	22.00	RT	EOR
77	216+14.52	22.00	RT	
78	216+29.48	52.00	RT	RP
79	215+84.65	22.00	RT	
80	215+53.90	20.42	RT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026 | Project No: 116.0663 | Sheet L.31

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

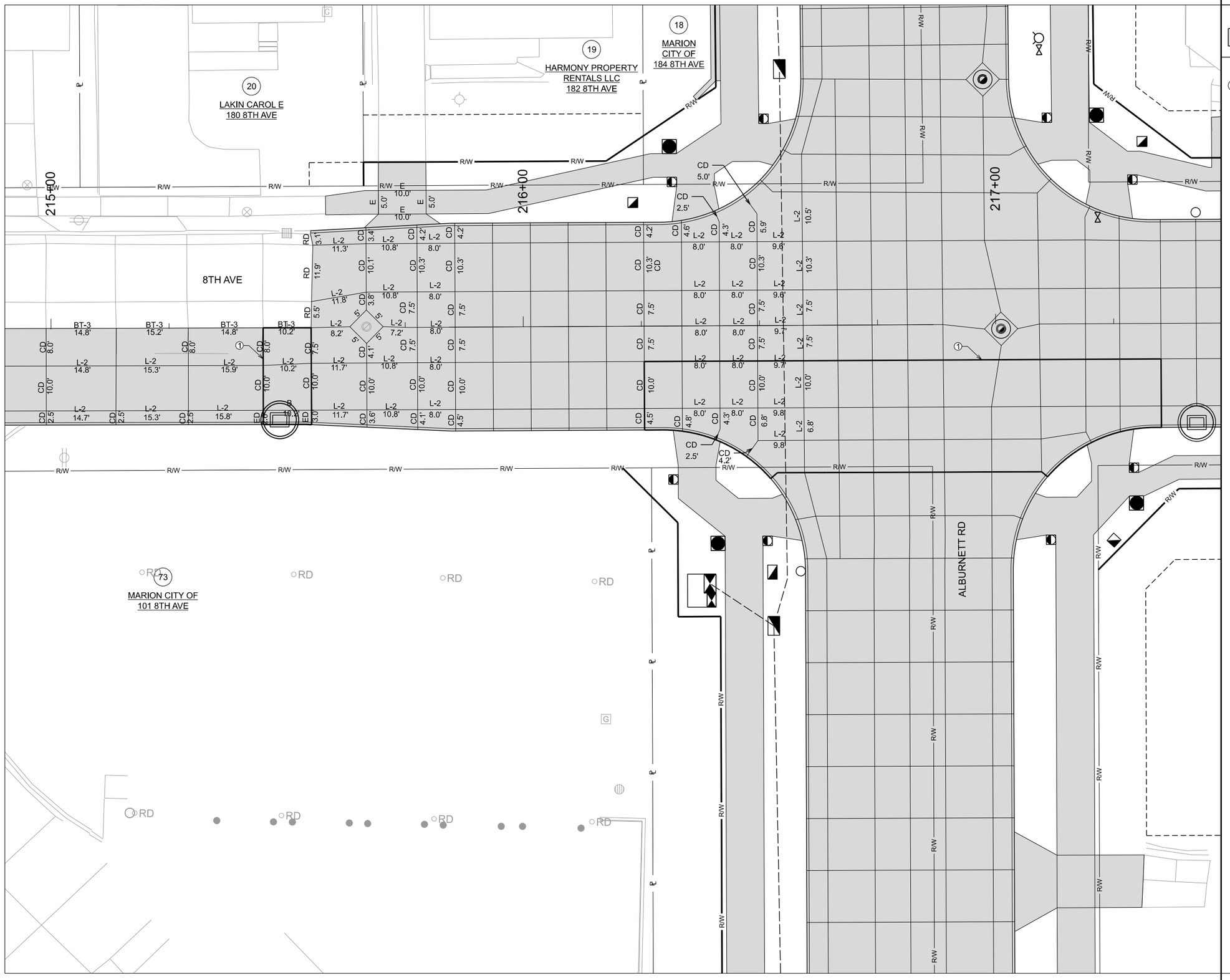
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Project No: 116.0663
Sheet L.31

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026
Project No: 116.0663
Sheet L.32

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

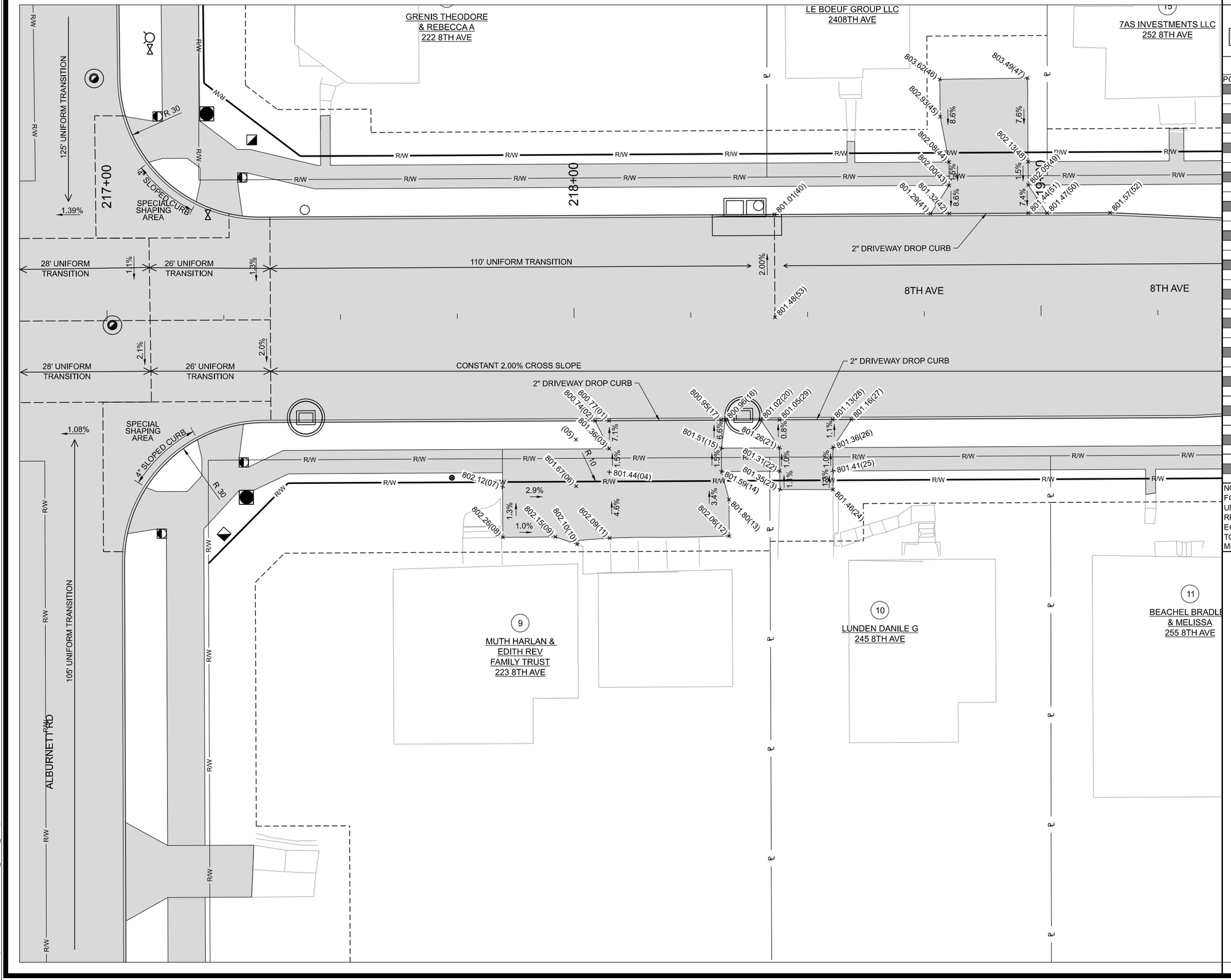
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Project No: 116.0663
Sheet L.32

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	218+07.40	22.00	RT	
2	218+04.40	22.00	RT	
3	218+07.40	28.00	RT	
4	218+07.40	33.00	RT	EOR
5	218+00.26	26.00	RT	RP
6	218+00.26	36.00	RT	EOR
7	217+84.51	36.00	RT	
8	217+84.51	46.85	RT	
9	217+95.77	46.80	RT	
10	218+00.46	48.43	RT	
11	218+07.40	47.13	RT	
12	218+32.99	46.84	RT	
13	218+32.99	39.00	RT	
14	218+31.40	33.00	RT	
15	218+31.40	28.00	RT	
16	218+32.29	22.00	RT	
17	218+31.40	22.00	RT	
20	218+39.88	22.00	RT	
21	218+43.88	28.00	RT	
22	218+43.88	33.00	RT	
23	218+43.88	36.91	RT	
24	218+55.26	36.99	RT	
25	218+55.26	33.00	RT	
26	218+55.26	28.00	RT	
27	218+59.26	22.00	RT	
28	218+55.26	22.00	RT	
29	218+43.88	22.00	RT	
40	218+43.02	-22.00	LT	
41	218+76.46	-22.00	LT	
42	218+80.46	-22.00	LT	
43	218+80.46	-28.00	LT	
44	218+80.46	-33.00	LT	
45	218+78.63	-42.75	LT	
46	218+78.59	-50.75	LT	
47	218+97.37	-50.90	LT	
48	218+97.37	-33.00	LT	
49	218+97.37	-28.00	LT	
50	219+01.37	-22.00	LT	
51	218+97.37	-22.00	LT	
52	219+14.88	22.00	LT	
53	218+43.02	0.00		

NOTE:ALL ELEVATIONS ARE
FORM GRADE OR TOP OF SLAB
UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026
Project No: 116.0663
Sheet L.33

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

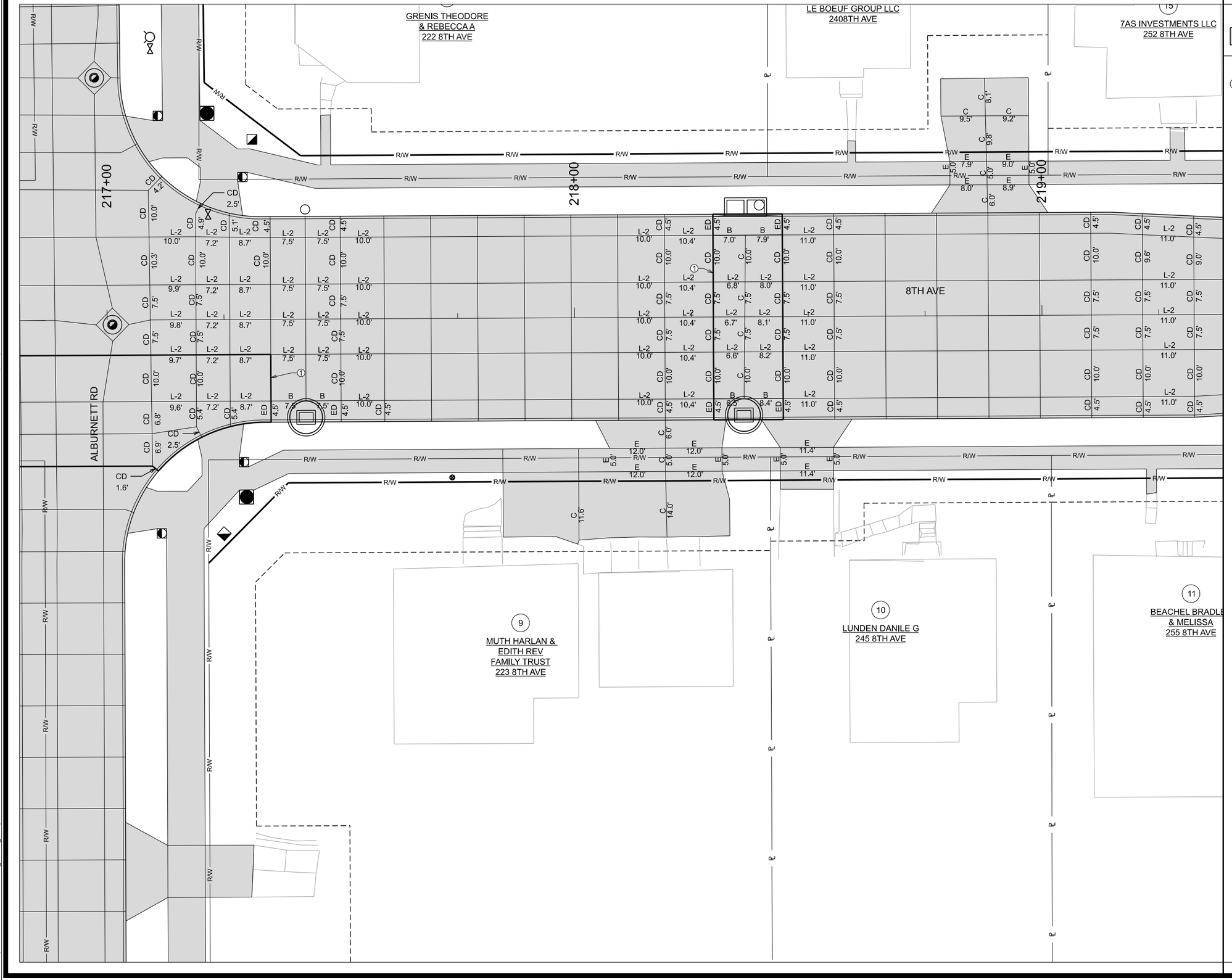
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Project No: 116.0663

Sheet L.33

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT

   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.

   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:

Technician: KMM | Date: 5/8/2026 | Project No: 116.0663 | Sheet L.34

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

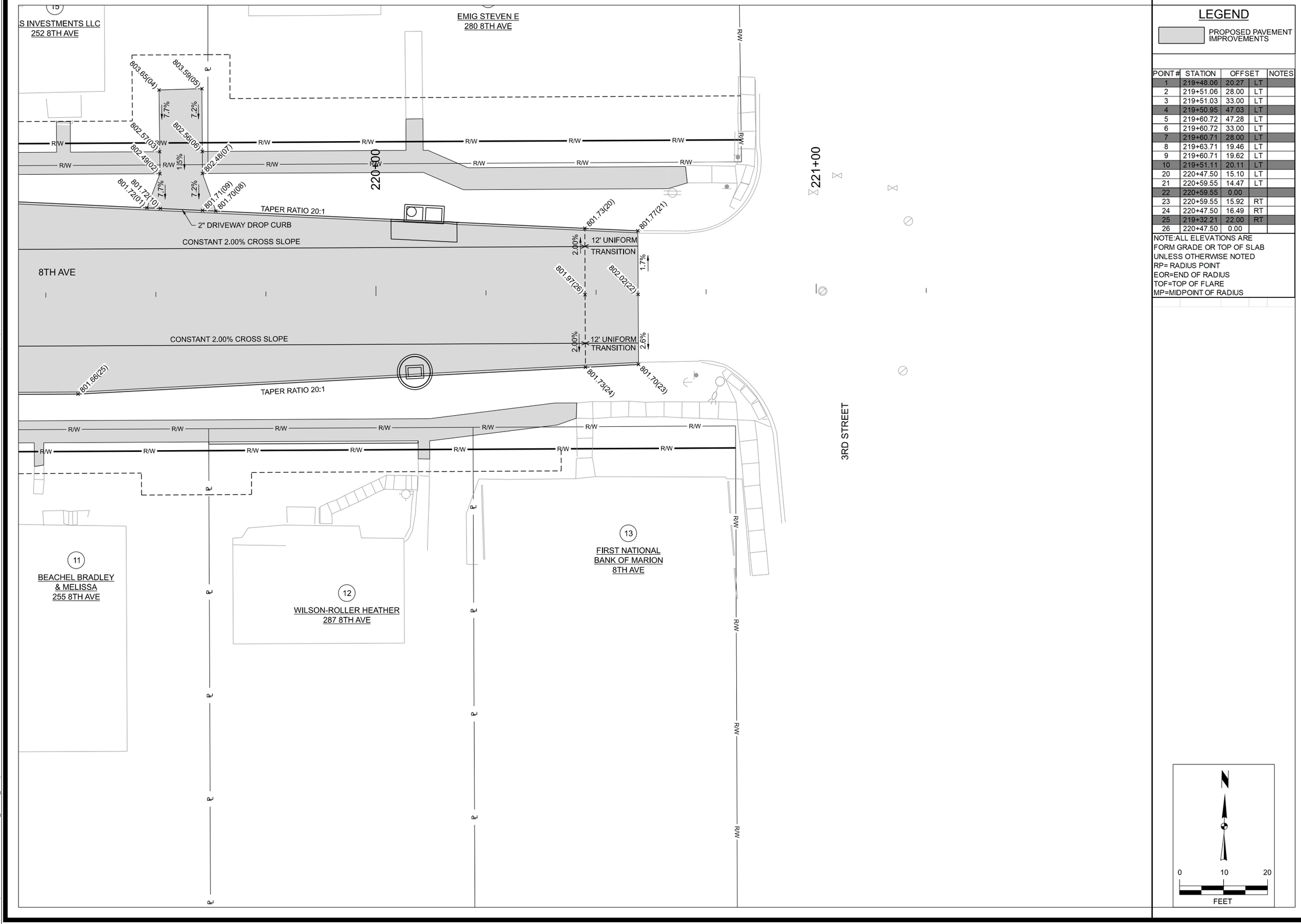
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Project No: 116.0663

Sheet L.34

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	219+48.06	20.27	LT	
2	219+51.06	28.00	LT	
3	219+51.03	33.00	LT	
4	219+50.95	47.03	LT	
5	219+60.72	47.28	LT	
6	219+60.72	33.00	LT	
7	219+60.71	28.00	LT	
8	219+63.71	19.46	LT	
9	219+60.71	19.62	LT	
10	219+51.11	20.11	LT	
20	220+47.50	15.10	LT	
21	220+59.55	14.47	LT	
22	220+59.55	0.00		
23	220+59.55	15.92	RT	
24	220+47.50	16.49	RT	
25	219+32.21	22.00	RT	
26	220+47.50	0.00		

NOTE:ALL ELEVATIONS ARE
FORM GRADE OR TOP OF SLAB
UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.35

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

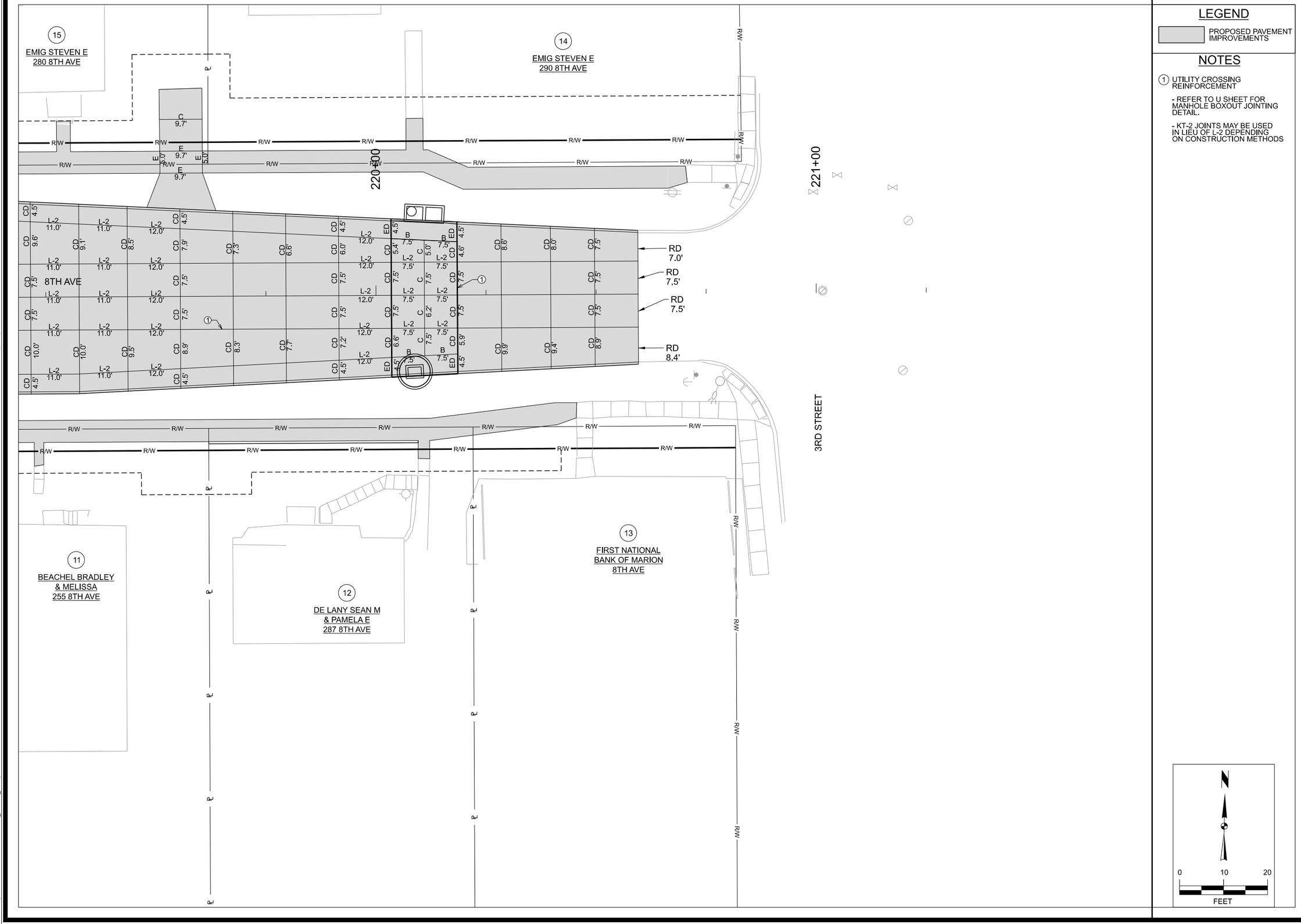
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Sheet L.35

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT

   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.

   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.36

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

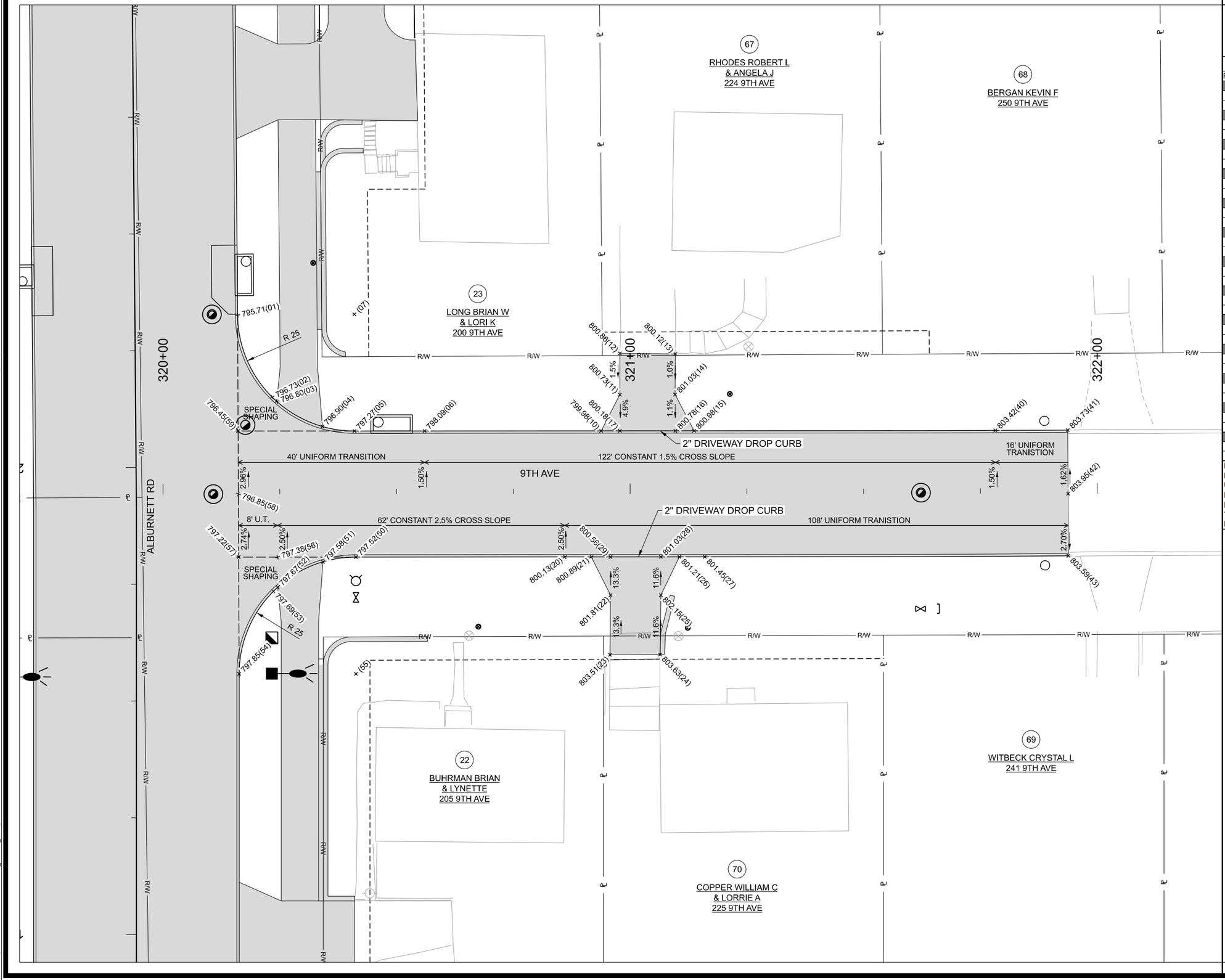
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Sheet L.36

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	320+16.01	38.32	LT	EOR
2	320+23.40	20.76	LT	MP
3	320+24.39	19.82	LT	
4	320+34.14	14.46	LT	
5	320+41.01	13.50	LT	EOR
6	320+56.01	13.50	LT	
7	320+41.01	38.50	LT	RP
10	320+93.82	13.50	LT	
11	320+97.81	21.25	LT	
12	320+97.82	30.06	LT	
13	321+09.71	29.95	LT	
14	321+09.66	21.27	LT	
15	321+13.71	13.50	LT	
16	321+09.71	13.49	LT	
17	320+97.81	13.50	LT	
20	320+86.01	13.50	RT	
21	320+91.70	13.50	RT	
22	320+95.80	21.68	RT	
23	320+95.68	34.44	RT	
24	321+06.41	34.41	RT	
25	321+06.57	21.68	RT	
26	321+10.55	13.50	RT	
27	321+16.01	13.50	RT	
28	321+06.58	13.50	RT	
29	320+95.80	13.50	RT	
40	321+78.21	13.56	LT	
41	321+93.71	13.61	LT	
42	321+93.77	0.00		
43	321+93.83	13.32	RT	
50	320+41.29	13.50	RT	EOR
51	320+34.25	14.51	RT	
52	320+24.54	19.94	RT	
53	320+23.62	20.82	RT	MP
54	320+16.29	38.49	RT	EOR
55	320+41.29	38.50	RT	RP
56	320+24.52	13.49	RT	
57	320+16.20	13.49	RT	
58	320+16.15	0.03	LT	
59	320+16.10	13.51	LT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026
Project No: 116.0663
Sheet L.37

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

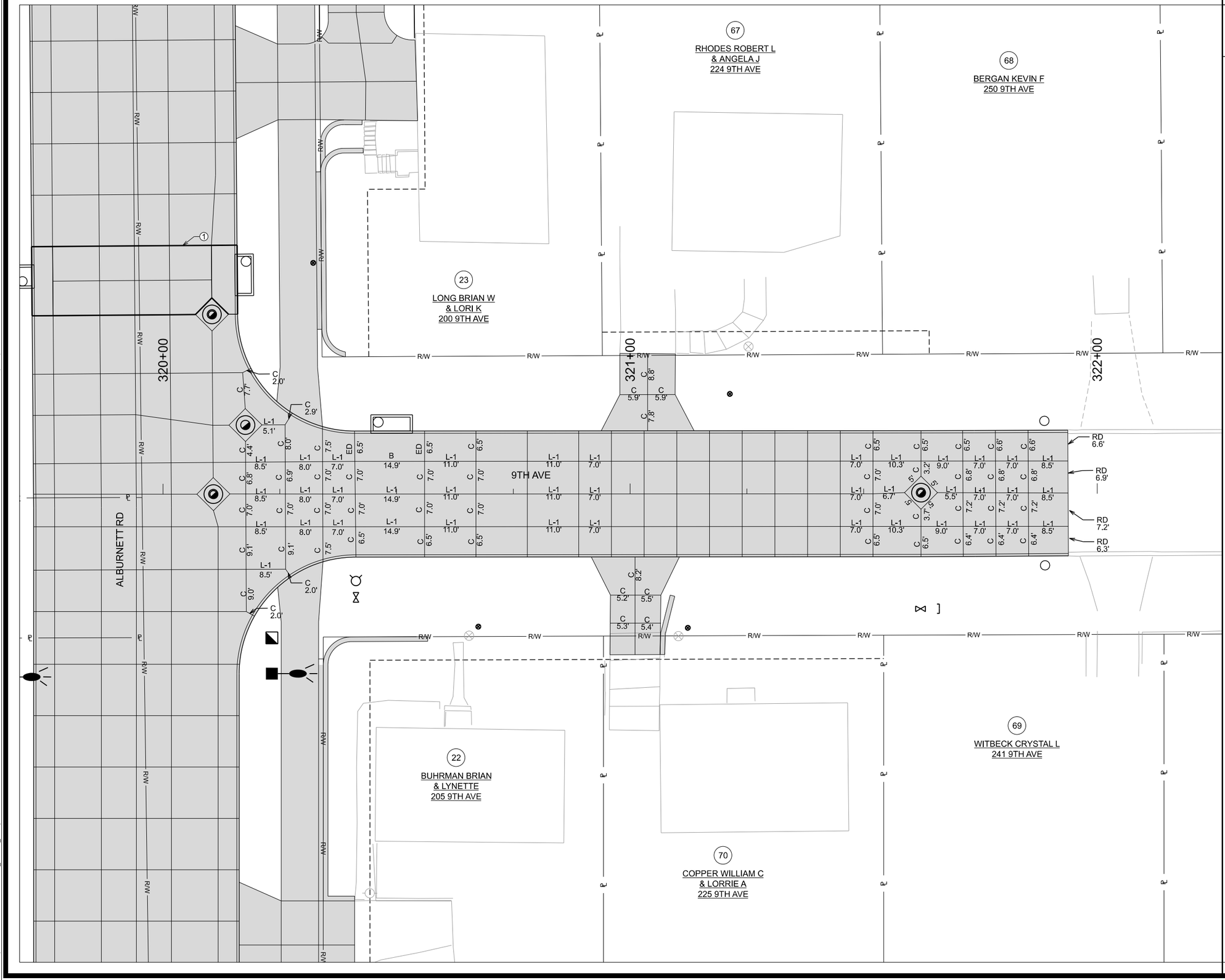
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Sheet L.37

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT

   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.

   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

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FEET

MARK	DATE	BY
	5/13/2026	

FINAL PLANS
REVISION

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Project No: 116.0663

Sheet L.38

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

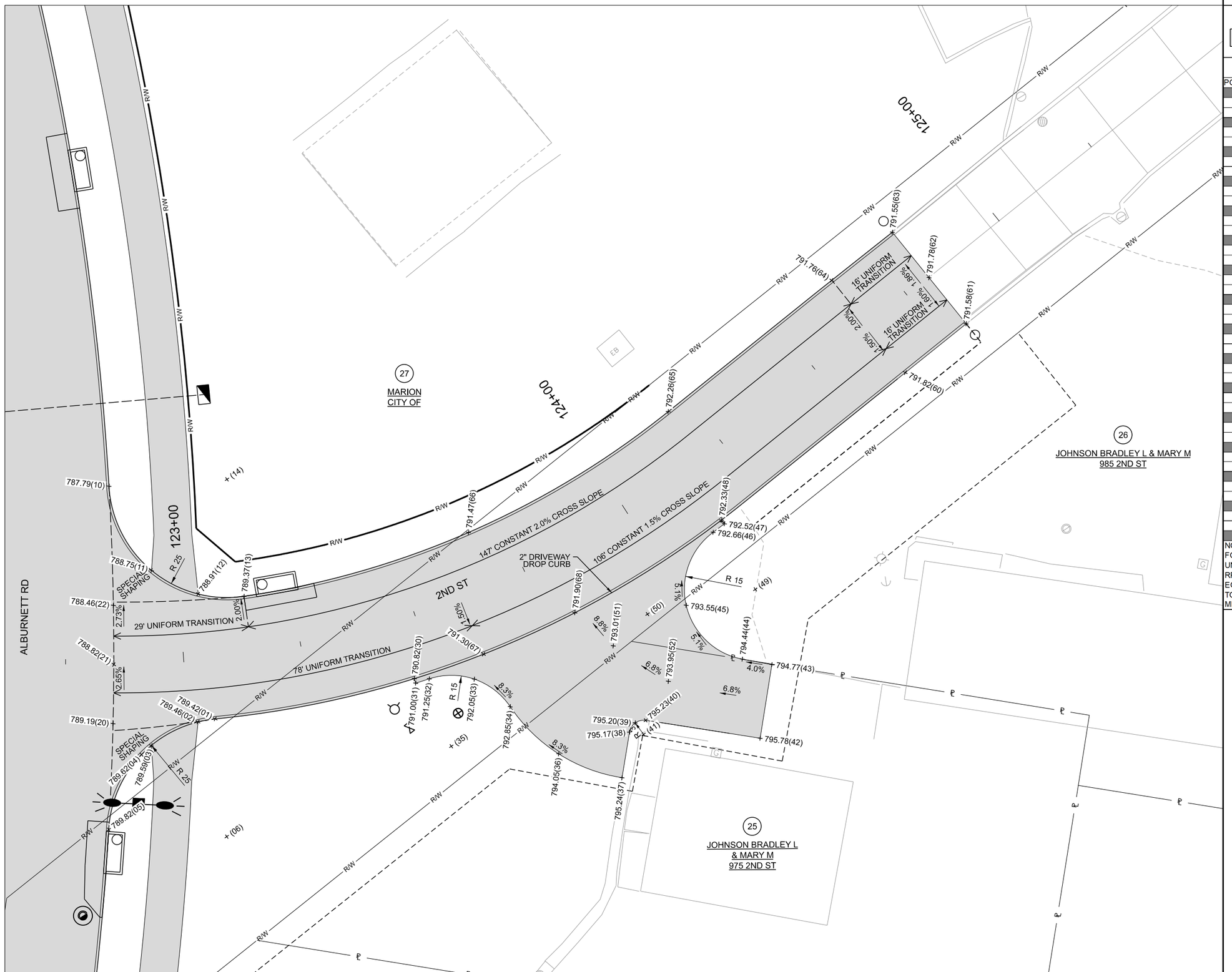
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Project No: 116.0663

Sheet L.38

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	123+05.43	12.50	RT	EOR
2	123+01.98	12.80	RT	
3	122+92.57	17.22	RT	
4	122+90.60	19.10	RT	MP
5	122+84.20	34.91	RT	EOR
6	123+05.43	37.50	RT	RP
10	122+84.04	37.71	LT	EOR
11	122+93.95	19.77	LT	
12	123+04.33	14.13	LT	
13	123+14.58	12.50	LT	EOR
14	123+14.58	37.50	LT	RP
20	122+85.05	12.50	RT	
21	122+85.18	0.00		
22	122+85.05	12.50	LT	
30	123+45.89	12.50	RT	
31	123+45.89	13.50	RT	
32	123+48.69	13.50	RT	EOR
33	123+57.03	16.72	RT	MP
34	123+61.52	24.87	RT	EOR
35	123+48.69	28.50	RT	RP
36	123+66.39	38.02	RT	MP
37	123+74.69	48.15	RT	EOR
38	123+79.36	40.21	RT	EOR
39	123+80.98	39.03	RT	MP
40	123+82.82	39.58	RT	EOR
41	123+81.35	42.00	RT	RP
42	123+98.17	55.05	RT	
43	124+06.72	43.45	RT	
44	124+03.00	38.98	RT	EOR
45	123+99.84	22.94	RT	MP
46	124+12.18	13.50	RT	EOR
47	124+14.99	13.50	RT	
48	124+14.99	12.50	RT	
49	124+12.18	28.50	RT	RP
50	123+92.70	20.21	RT	RP
51	123+84.01	22.47	RT	
52	123+89.71	34.70	RT	
60	124+64.45	12.50	RT	
61	124+80.94	12.50	RT	
62	124+80.93	0.00		
63	124+80.91	12.35	LT	
64	124+64.55	12.47	LT	
65	124+20.23	12.50	LT	EOR
66	123+67.41	12.50	LT	MP
67	123+60.49	12.50	LT	
68	123+80.44	12.50	LT	

NOTE:ALL ELEVATIONS ARE
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.39

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

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Project No: 116.0663

Sheet L.39

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
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Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.40

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

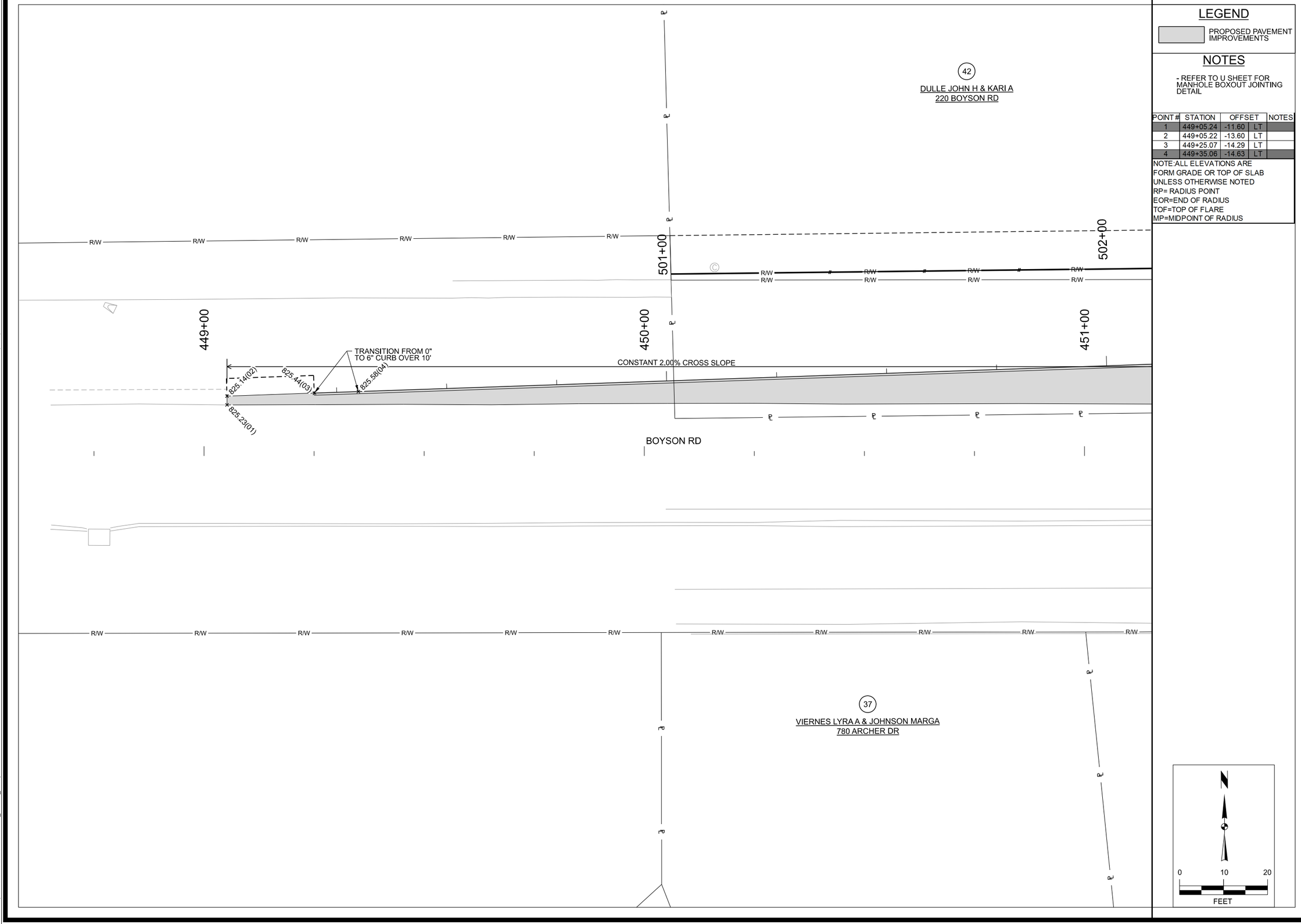
SNYDER & ASSOCIATES, INC.
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Project No: 116.0663

Sheet L.40

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

- REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL

POINT #	STATION	OFFSET		NOTES
1	449+05.24	-11.60	LT	
2	449+05.22	-13.60	LT	
3	449+25.07	-14.29	LT	
4	449+35.06	-14.63	LT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.41

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

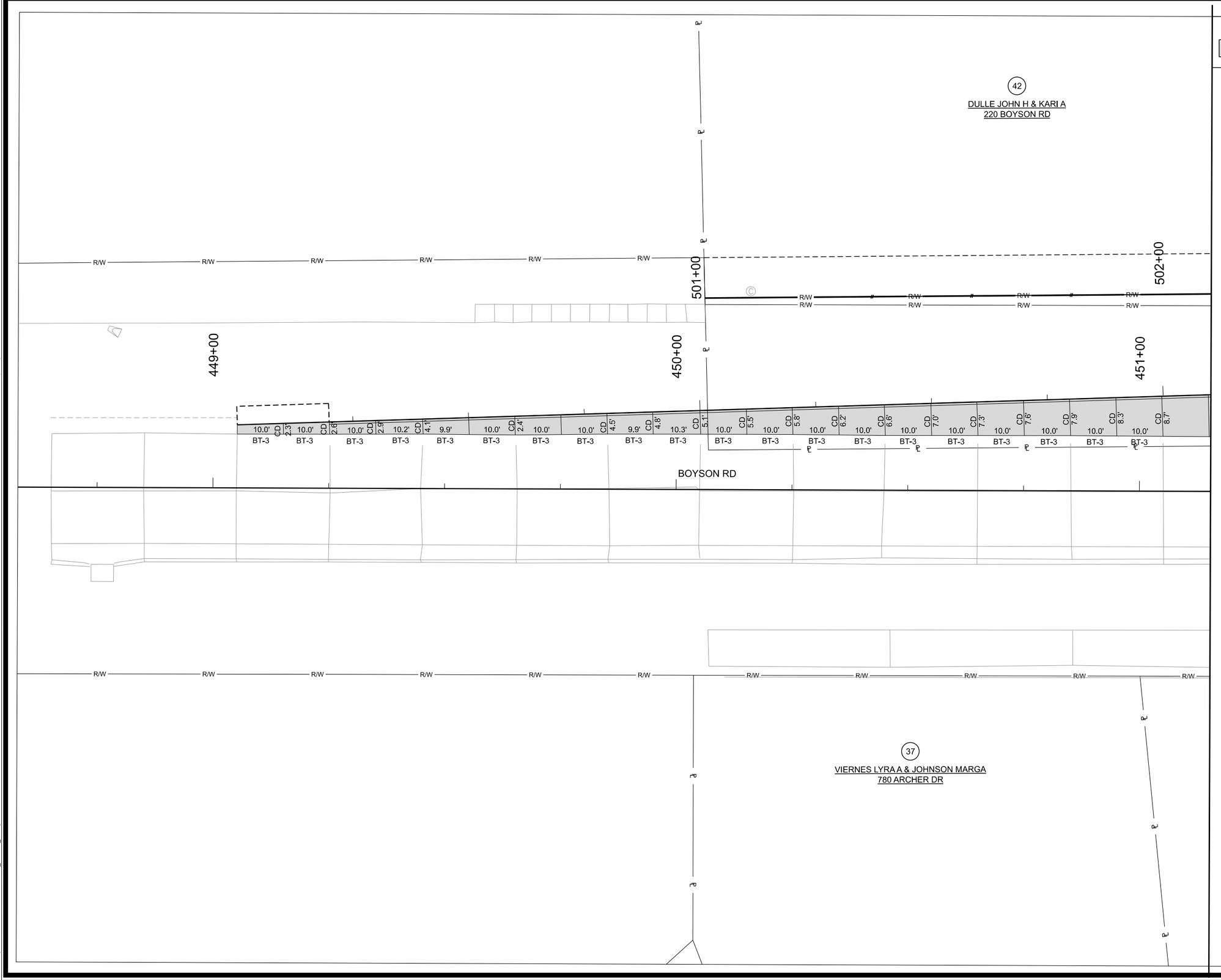
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Project No: 116.0663

Sheet L.41

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.42

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

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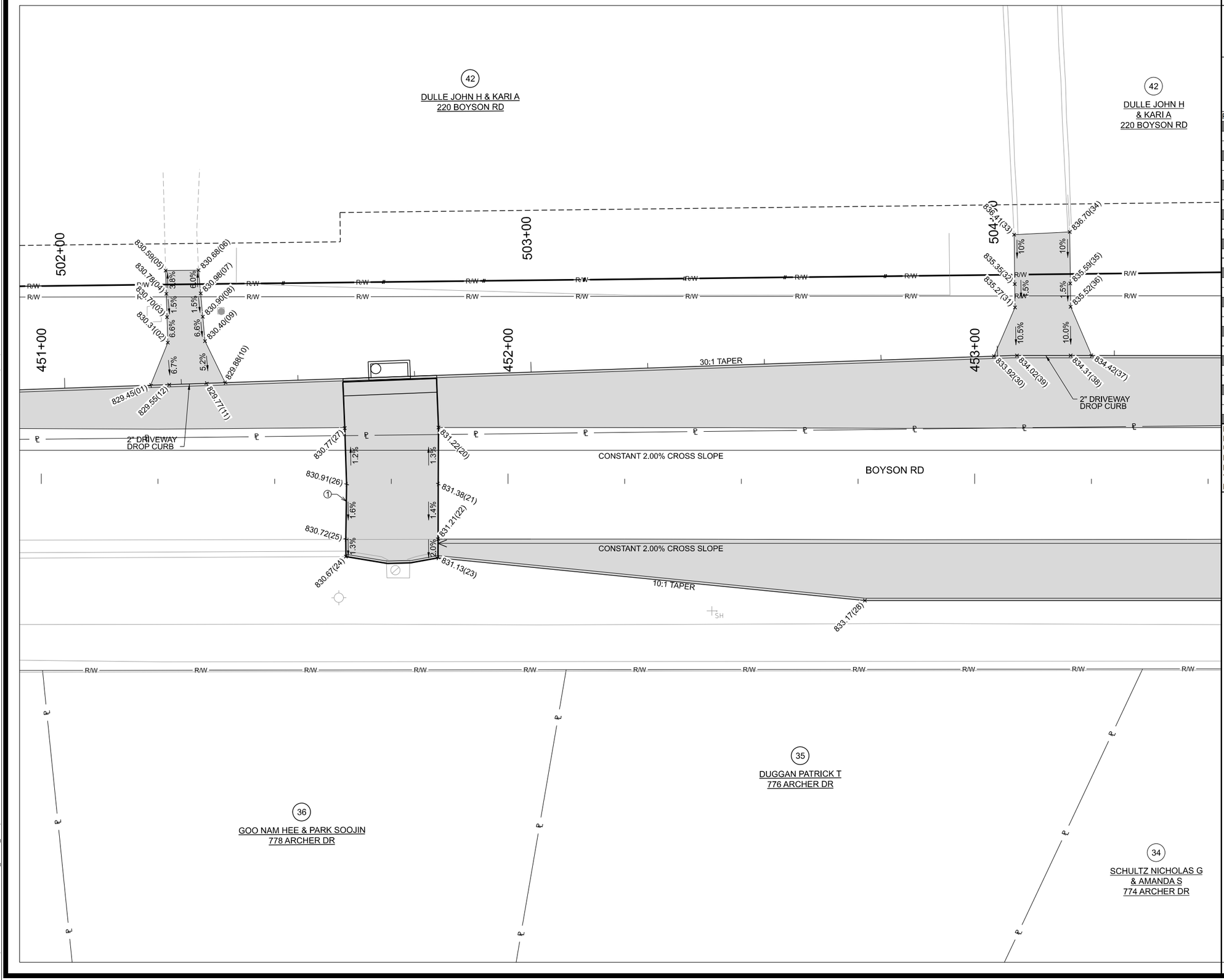
SNYDER & ASSOCIATES, INC.

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.42

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

① UTILITY CROSSING REINFORCEMENT

POINT #	STATION	OFFSET		NOTES
1	451+23.43	-21.13	LT	
2	451+27.11	-30.28	LT	
3	451+26.95	-35.72	LT	
4	451+26.81	-40.72	LT	
5	451+26.66	-45.72	LT	
6	451+33.71	-45.80	LT	
7	451+34.17	-40.81	LT	
8	451+34.63	-35.81	LT	
9	451+35.10	-30.59	LT	
10	451+39.41	-21.69	LT	
11	451+35.41	-21.55	LT	
12	451+27.42	-21.27	LT	
20	451+85.11	-12.08	LT	
21	451+85.07	0.03	RT	
22	451+85.03	11.82	RT	
23	451+85.02	15.85	RT	
24	451+65.27	15.56	RT	
25	451+65.26	11.83	RT	
26	451+65.44	0.08	RT	
27	451+65.02	-11.97	LT	
28	452+76.48	25.00	RT	
30	453+04.13	-27.37	LT	
31	453+08.64	-37.83	LT	
32	453+08.58	-42.83	LT	
33	453+08.45	-53.41	LT	
34	453+20.36	-53.99	LT	
35	453+20.49	-42.97	LT	
36	453+20.55	-37.97	LT	
37	453+25.05	-27.50	LT	
38	453+20.55	-27.50	LT	
39	453+09.05	-27.50	LT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.43

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

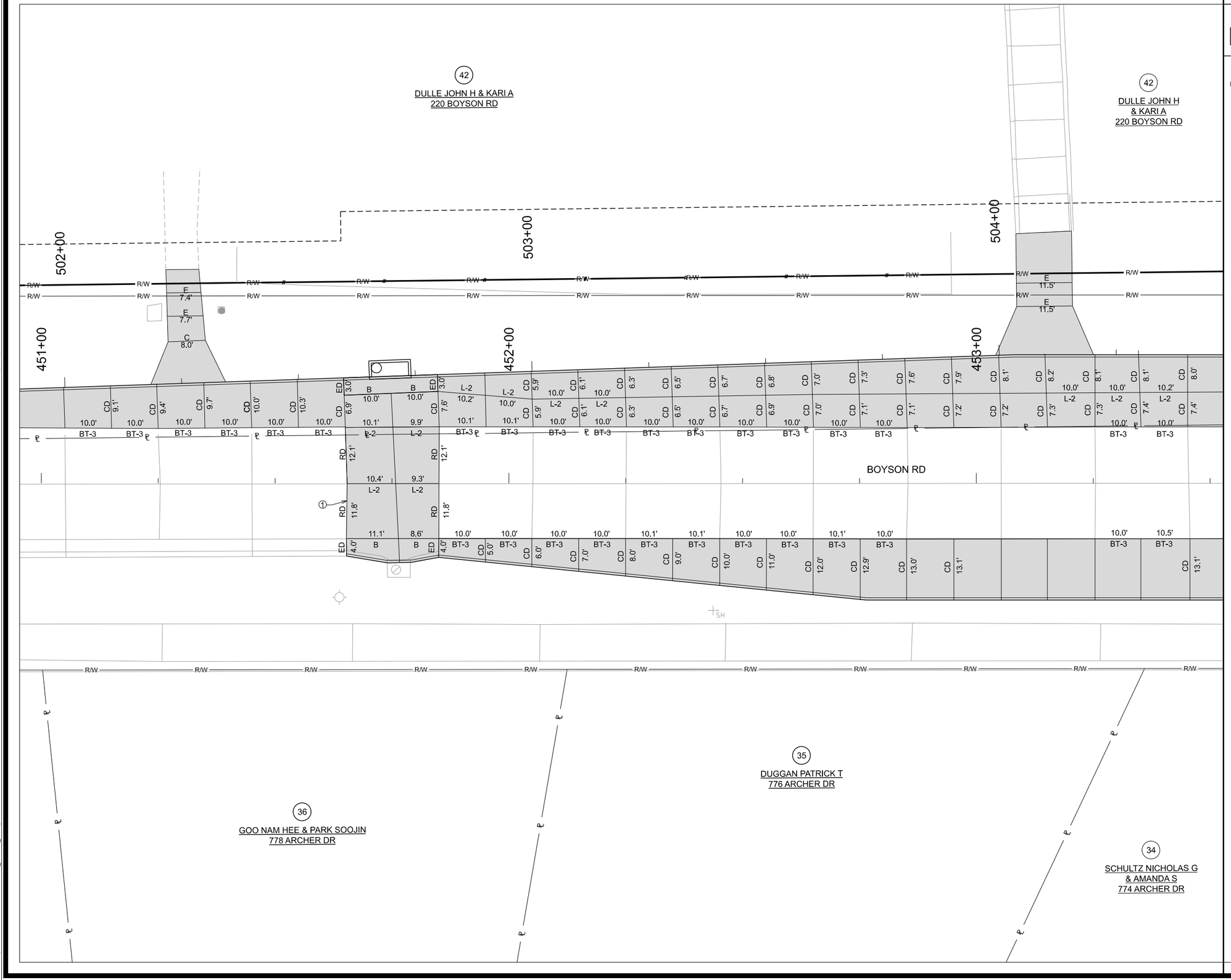
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Project No: 116.0663

Sheet L.43

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT

-REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.

-KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/8/2026

Project No: 116.0663 Sheet L.44

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

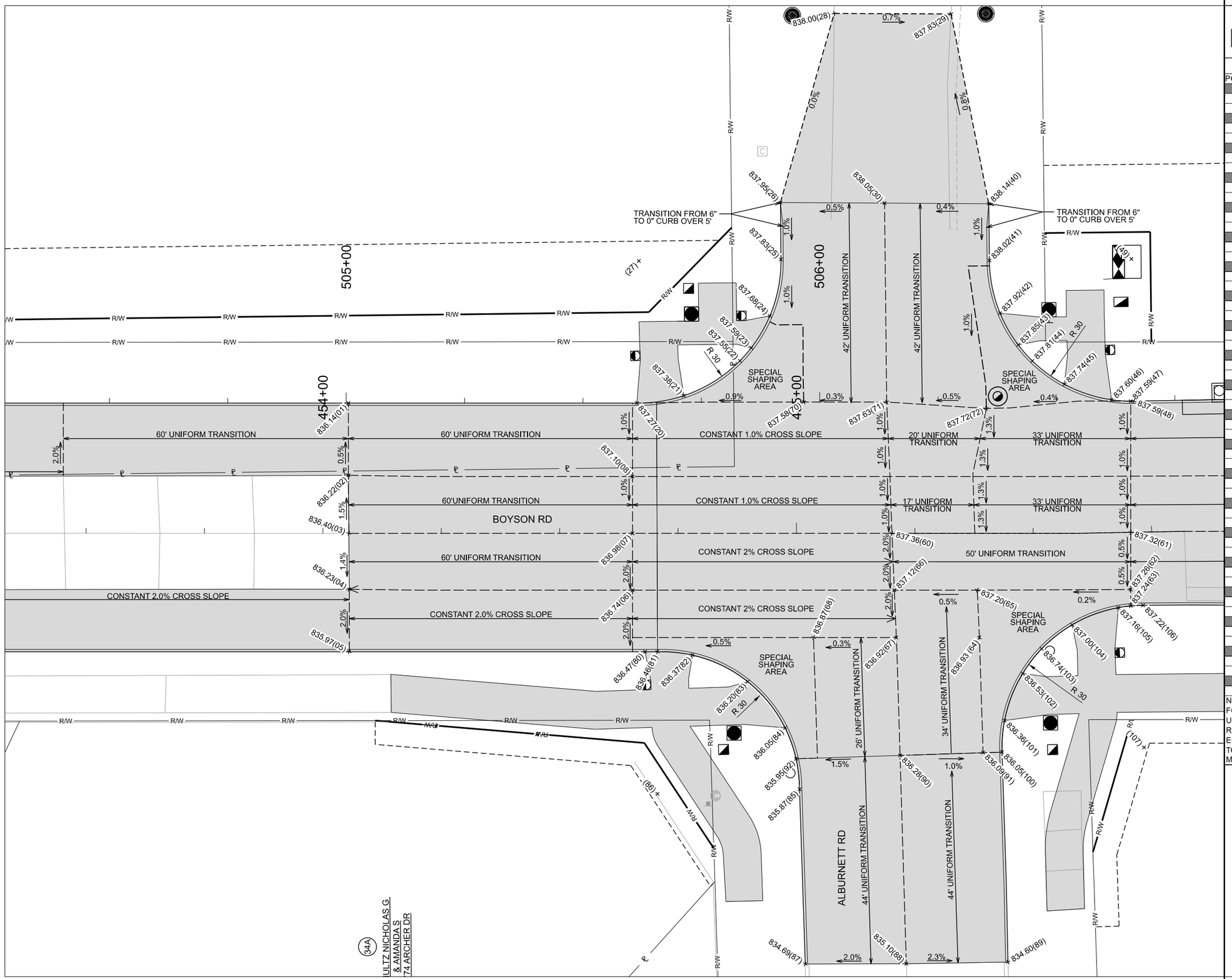
CITY OF MARION, IOWA

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Project No: 116.0663
Sheet L.44

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POINT #	STATION	OFFSET		NOTES
1	454+05.39	-27.50	LT	
2	454+05.39	-12.24	LT	
3	454+05.50	0.00		
4	454+05.59	11.82	RT	
5	454+05.59	25.00	RT	
6	454+65.39	12.00	RT	
7	454+65.39	0.00		
8	454+65.39	-12.00	LT	
20	454+66.32	27.50	LT	
21	454+76.24	29.04	LT	
22	454+88.06	36.40	LT	MP
23	454+90.47	39.14	LT	
24	454+94.40	45.89	LT	
25	454+96.74	57.81	LT	EOR
26	454+96.62	69.81	LT	
27	454+66.74	57.50	LT	RP
28	455+07.97	109.75	LT	
29	455+32.66	109.63	LT	
30	455+18.62	69.70	LT	
40	455+40.62	69.59	LT	
41	455+40.74	57.59	LT	EOR
42	455+43.01	46.47	LT	
43	455+46.83	39.78	LT	
44	455+50.46	36.36	LT	MP
45	455+57.13	31.30	LT	
46	455+67.04	27.87	LT	
47	455+71.07	27.51	LT	
48	455+71.75	27.50	LT	EOR
49	455+71.75	57.50	LT	RP
60	455+20.15	0.00		
61	455+70.59	0.19	RT	
62	455+70.38	12.27	RT	
63	455+70.32	15.71	RT	
64	455+38.64	22.00	RT	
65	455+38.20	12.00	RT	
66	455+20.68	12.00	RT	
67	455+21.10	22.00	RT	
68	455+03.63	22.00	RT	
70	455+01.55	-27.70	LT	
71	455+19.05	-27.70	LT	
72	455+40.10	-26.34	LT	
80	454+68.02	25.00	RT	
81	454+70.68	25.00	RT	EOR
82	454+78.02	25.91	RT	
83	454+89.53	31.67	RT	
84	454+97.20	40.98	RT	
85	455+00.66	54.03	RT	EOR
86	454+70.68	55.00	RT	RP
87	455+01.86	90.93	RT	
88	455+23.21	90.87	RT	
89	455+44.69	90.51	RT	
90	455+21.89	46.89	RT	
91	455+39.43	45.62	RT	
92	454+99.93	47.61	RT	
100	455+43.43	46.17	RT	EOR
101	455+43.95	39.54	RT	
102	455+47.79	29.60	RT	
103	455+51.36	24.46	RT	MP
104	455+57.88	19.50	RT	
105	455+67.70	16.03	RT	
106	455+72.94	15.63	RT	EOR
107	455+72.62	45.63	RT	RP

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.45

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

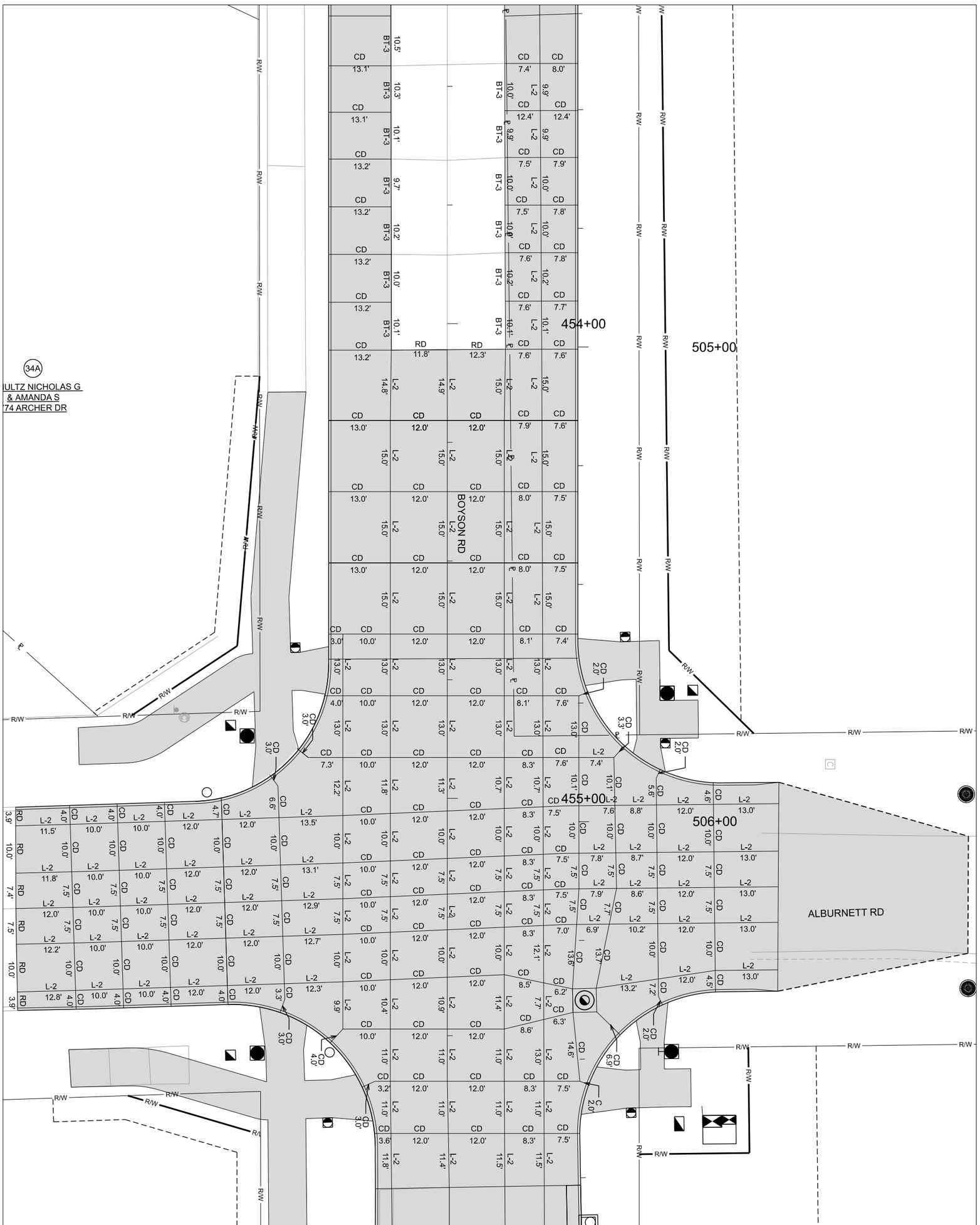
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Project No: 116.0663

Sheet L.45

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

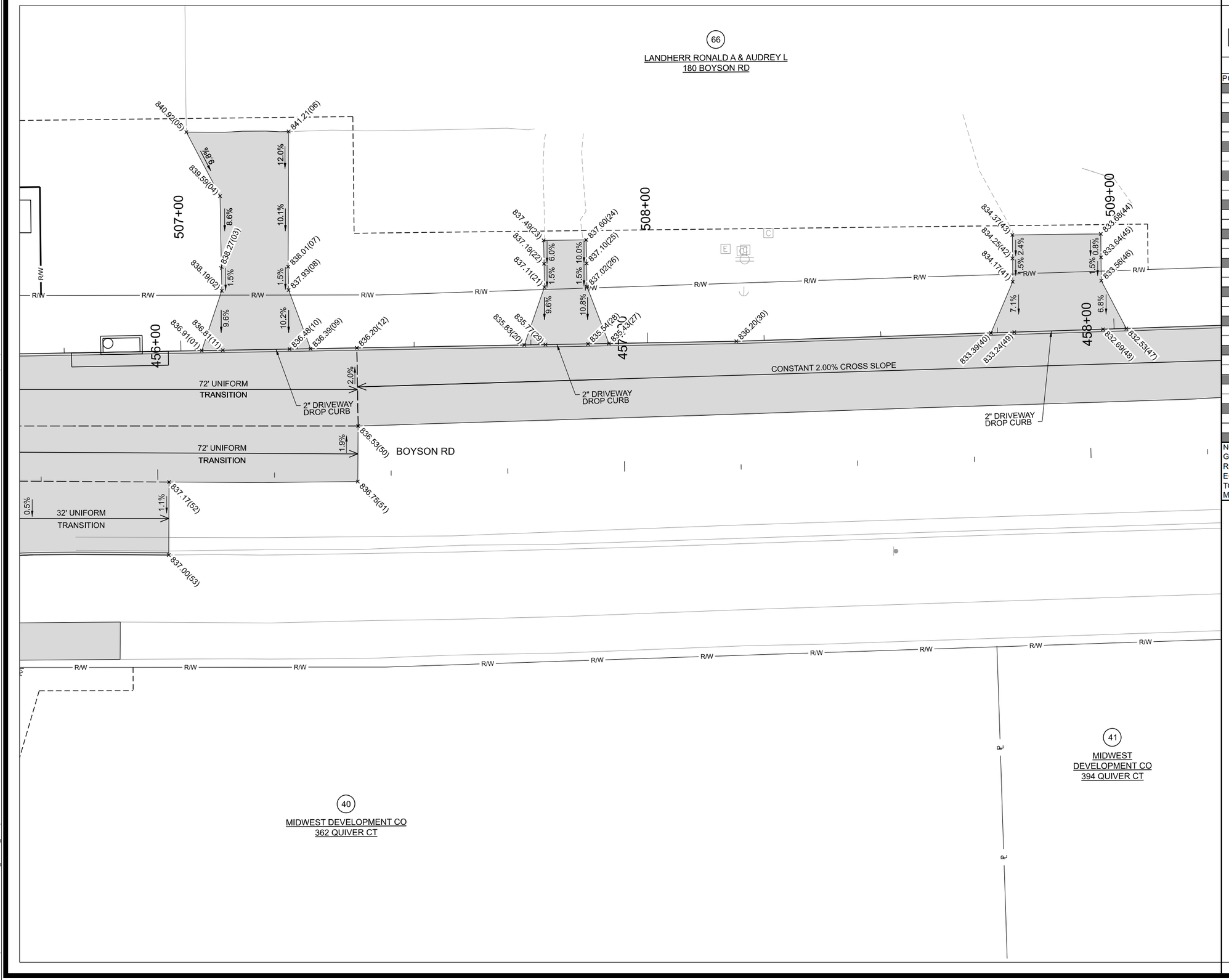
GEOMETRIC, STAKING, AND JOINTING

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57	
FINAL PLANS	5/13/2026
MARK REVISION	DATE BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026
Field Bk:	Pg:
Project No: 116.0663	Sheet L.46

Sheet L.46
Project No: 116.0663



LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

POINT #	STATION	OFFSET		NOTES
1	456+09.89	27.50	LT	
2	456+14.39	40.22	LT	
3	456+14.39	45.22	LT	
4	456+14.39	60.55	LT	
5	456+07.39	74.36	LT	
6	456+29.30	74.10	LT	
7	456+28.70	45.14	LT	
8	456+28.70	40.14	LT	
9	456+33.20	27.50	LT	
10	456+28.70	27.50	LT	
11	456+14.39	27.50	LT	
12	456+43.10	27.51	LT	
20	456+79.00	27.50	LT	
21	456+83.52	39.82	LT	
22	456+83.52	44.82	LT	
23	456+83.52	49.82	LT	
24	456+92.64	49.77	LT	
25	456+92.64	44.76	LT	
26	456+92.64	39.76	LT	
27	456+97.12	27.50	LT	
28	456+92.64	27.50	LT	
29	456+83.52	27.50	LT	
30	457+24.84	27.50	LT	
40	457+79.45	27.50	LT	
41	457+84.45	38.32	LT	
42	457+84.57	43.32	LT	
43	457+84.70	48.34	LT	
44	458+03.65	47.94	LT	
45	458+03.55	42.91	LT	
46	458+03.44	37.92	LT	
47	458+08.44	27.50	LT	
48	458+03.44	27.50	LT	
49	457+84.45	27.50	LT	
50	456+43.10	10.75	LT	
51	456+42.82	1.14	RT	
52	45602.38	0.54	RT	
53	45602.03	16.18	RT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.47

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

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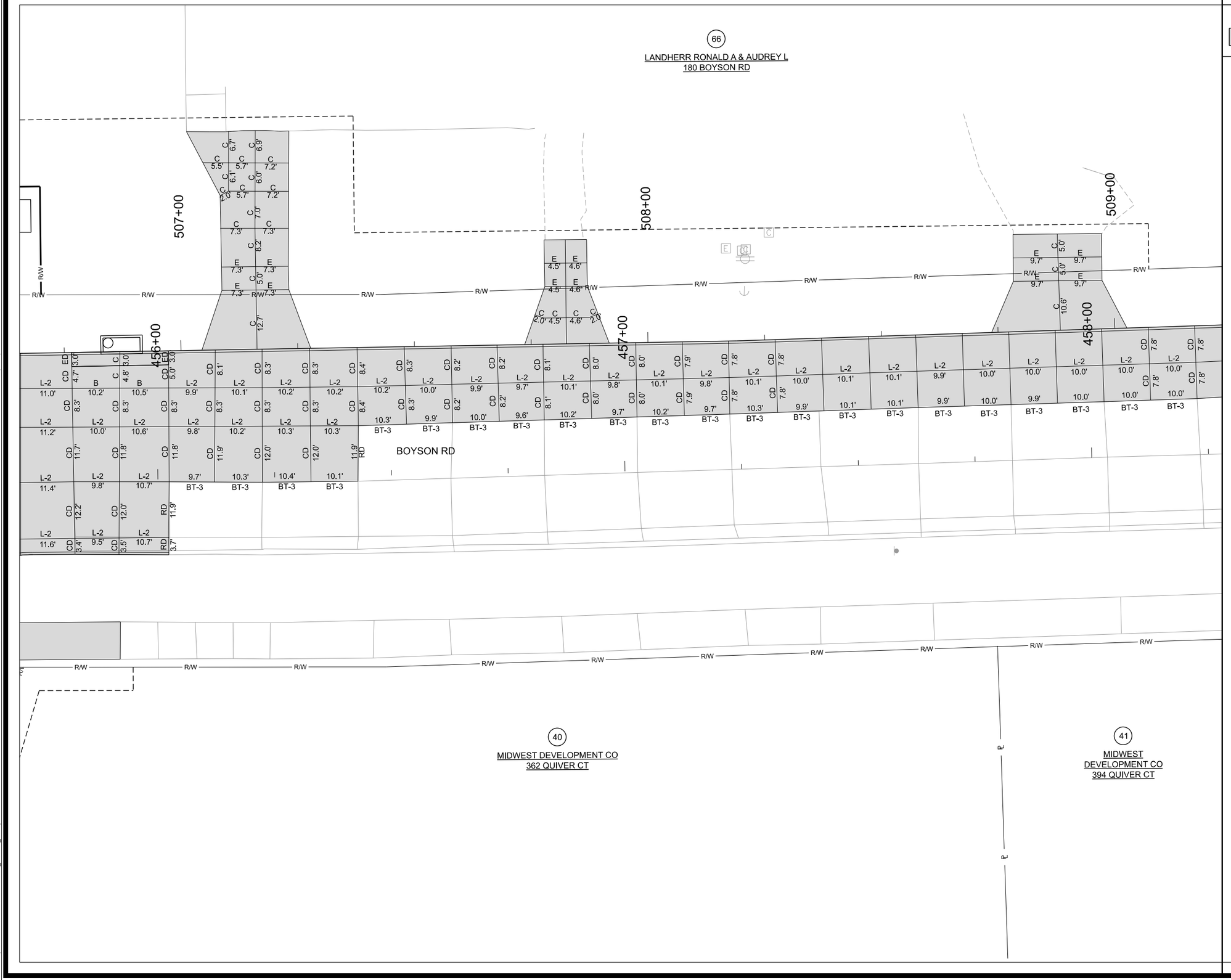
SNYDER & ASSOCIATES, INC.

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Project No: 116.0663

Sheet L.47

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT

   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.

   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.48

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

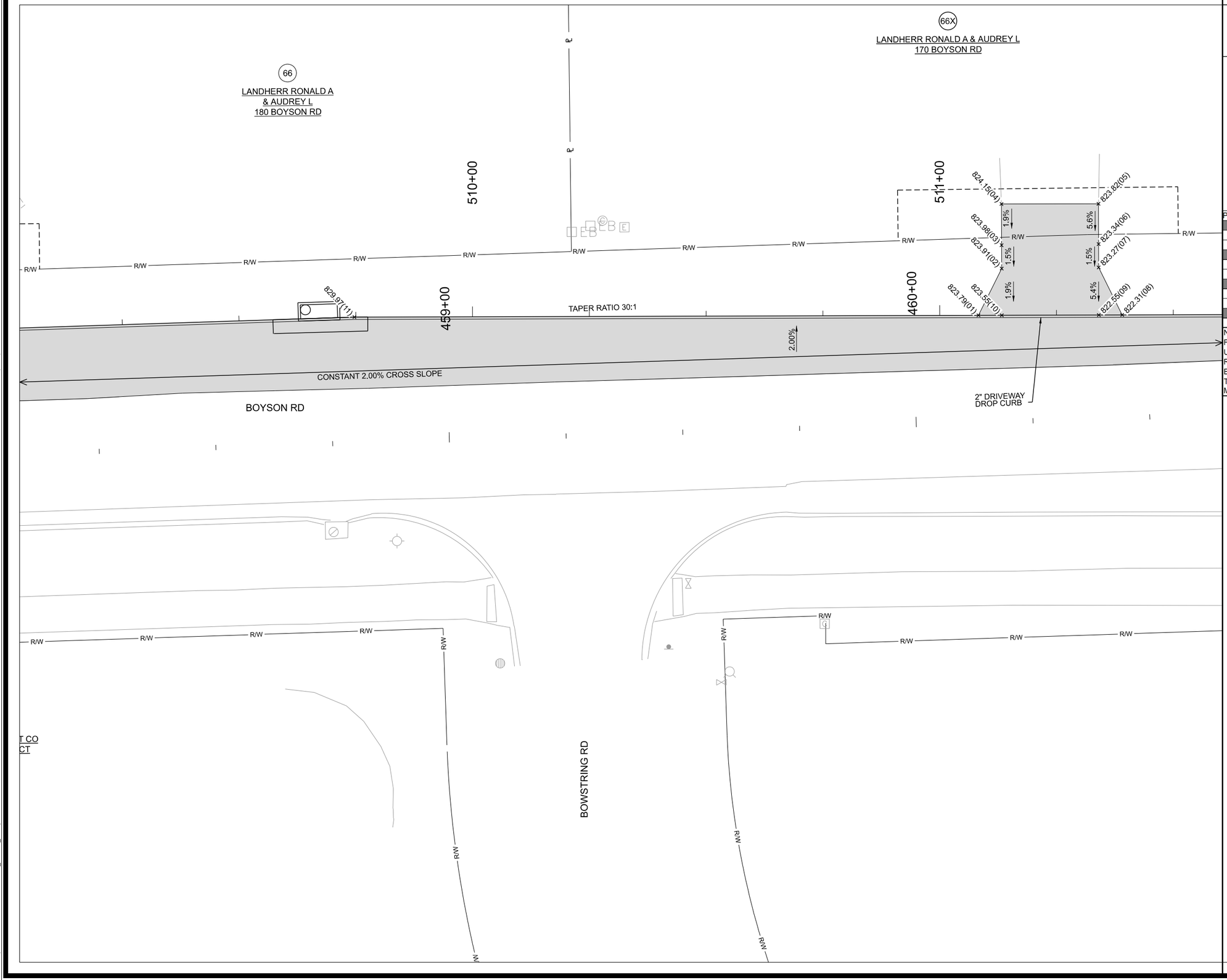
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Project No: 116.0663

Sheet L.48

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - REFER TO U SHEETS FOR MANHOLE BOXOUT JOINTING DETAIL
   - KT-2 AND L-2 JOINTS MAY BE USED INTERCHANGEABLY DEPENDING ON CONSTRUCTION METHODS

POINT #	STATION	OFFSET		NOTES
1	460+14.06	23.49	LT	
2	460+19.36	33.34	LT	
3	460+19.51	38.34	LT	
4	460+19.78	47.15	LT	
5	460+40.54	46.51	LT	
6	460+40.28	37.90	LT	
7	460+40.13	32.90	LT	
8	460+44.82	22.56	LT	
9	460+39.82	22.71	LT	
10	460+19.06	23.34	LT	
11	458+80.54	27.50	LT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.49

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

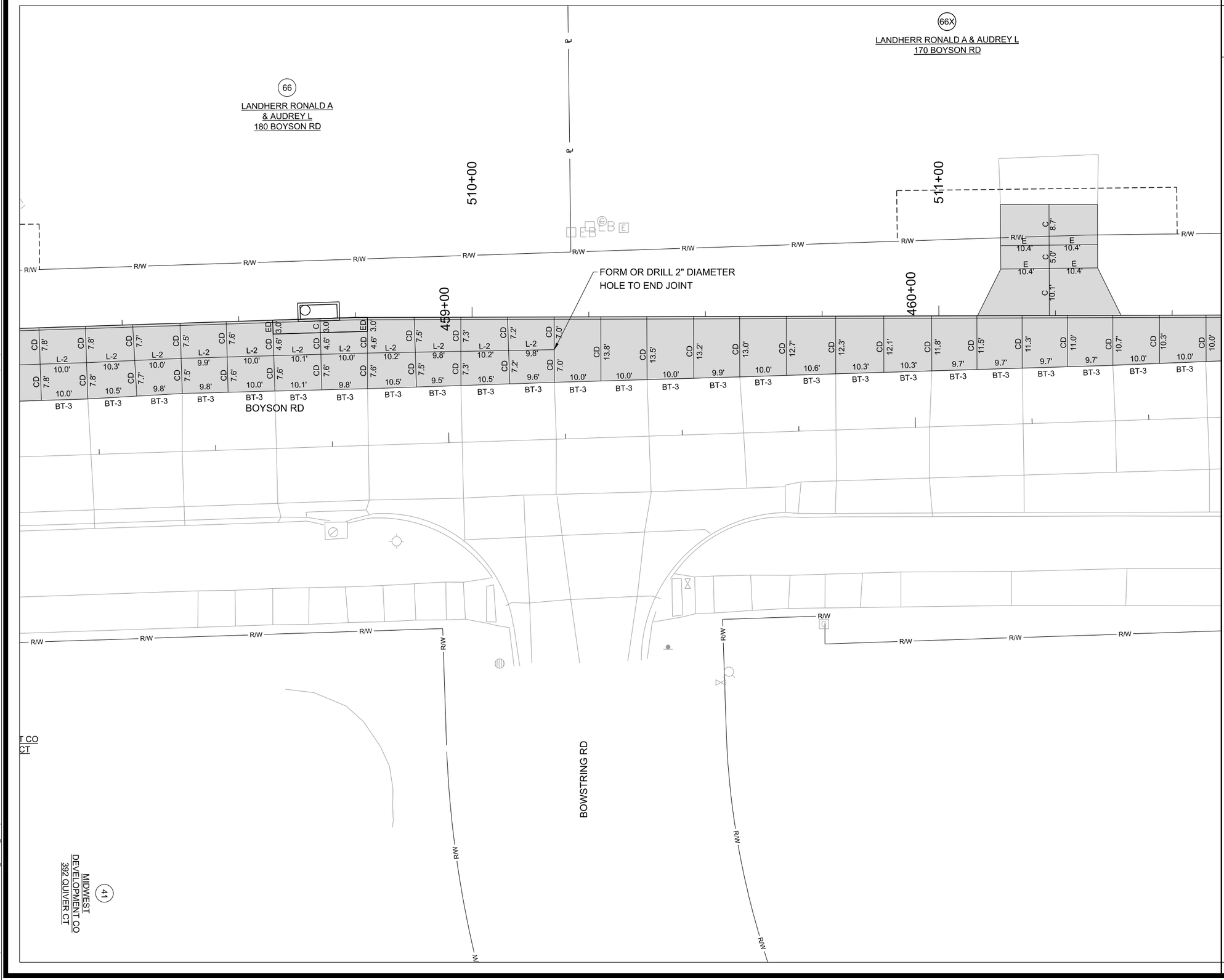
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CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

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Project No: 116.0663

Sheet L.49

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. UTILITY CROSSING REINFORCEMENT
   - REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
   - KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

0 10 20
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.50

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

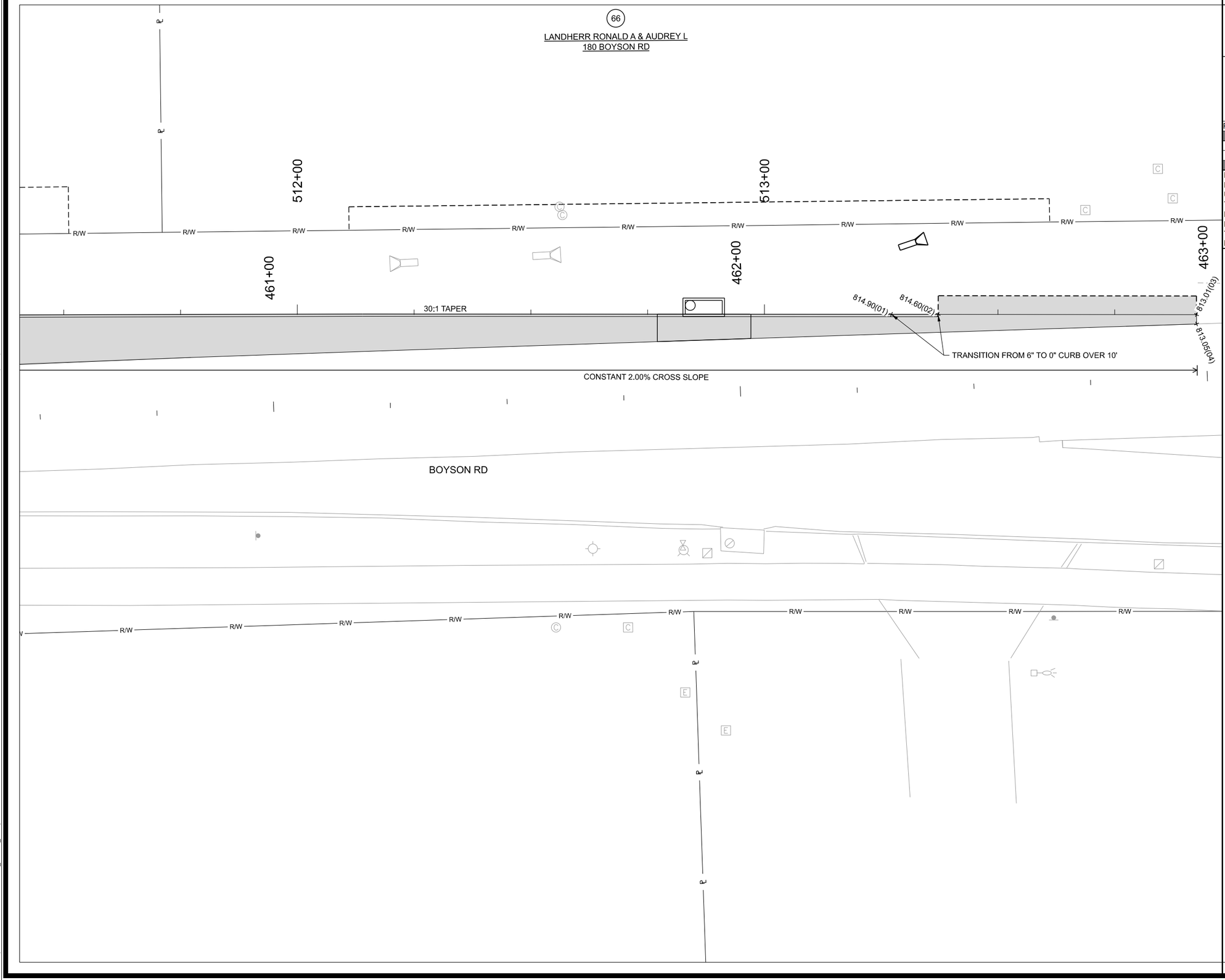
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet L.50

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

- REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL

POINT #	STATION	OFFSET		NOTES
1	462+32.86	-16.52	LT	
2	462+42.85	-16.19	LT	
3	462+98.12	-14.33	LT	
4	462+98.07	-12.33	LT	

NOTE:ALL ELEVATIONS ARE FORM GRADE OR TOP OF SLAB UNLESS OTHERWISE NOTED
TOS=TOP OF SLAB
RP= RADIUS POINT
EOR=END OF RADIUS
TOF=TOP OF FLARE
MP=MIDPOINT OF RADIUS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet L.51

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

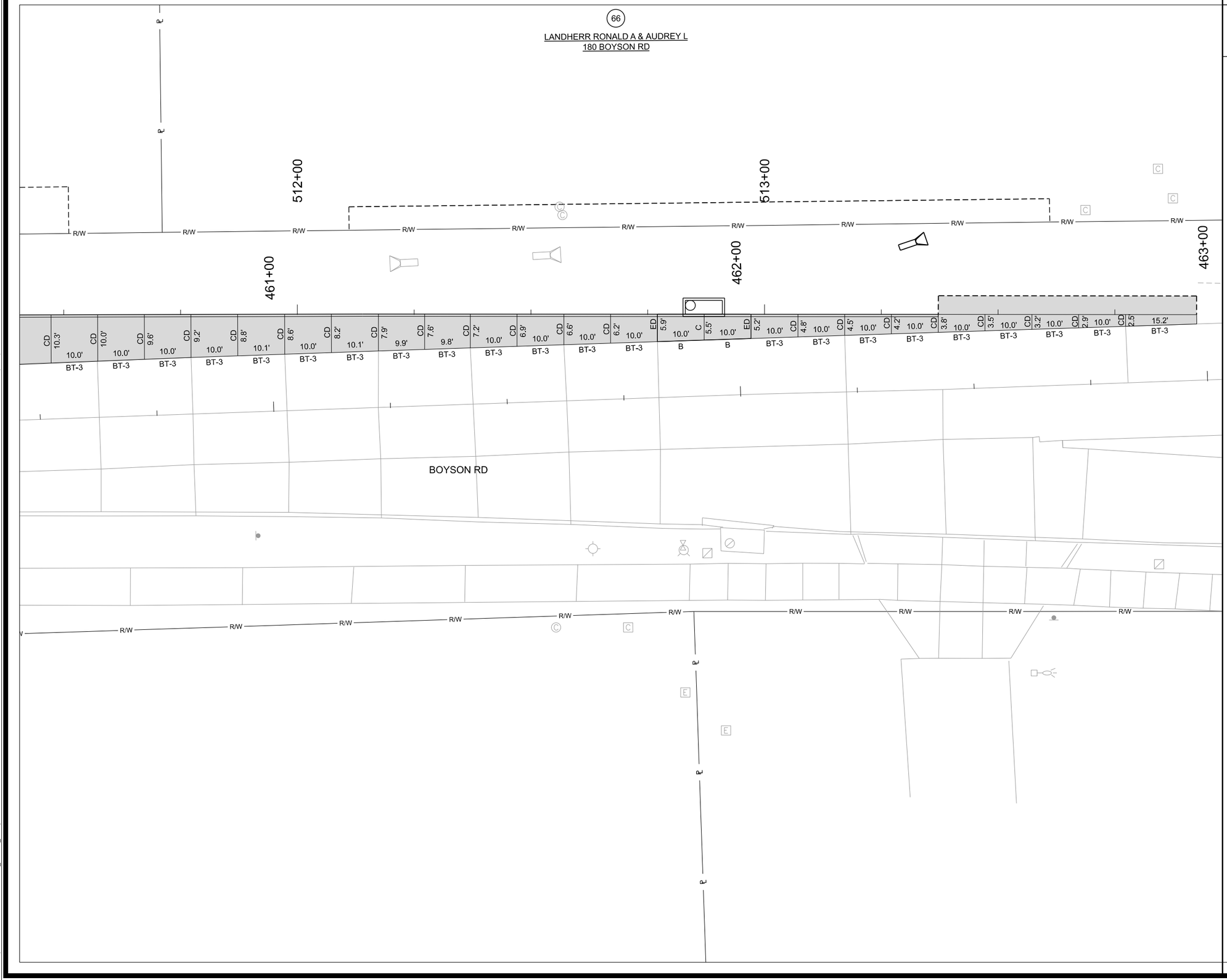
SNYDER & ASSOCIATES, INC.
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Project No: 116.0663

Sheet L.51

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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

- REFER TO U SHEET FOR MANHOLE BOXOUT JOINTING DETAIL.
- KT-2 JOINTS MAY BE USED IN LIEU OF L-2 DEPENDING ON CONSTRUCTION METHODS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet L.52

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

GEOMETRIC, STAKING, AND JOINTING

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Project No: 116.0663

Sheet L.52

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS

LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet M.2

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

900 BELL DRIVE S.W.
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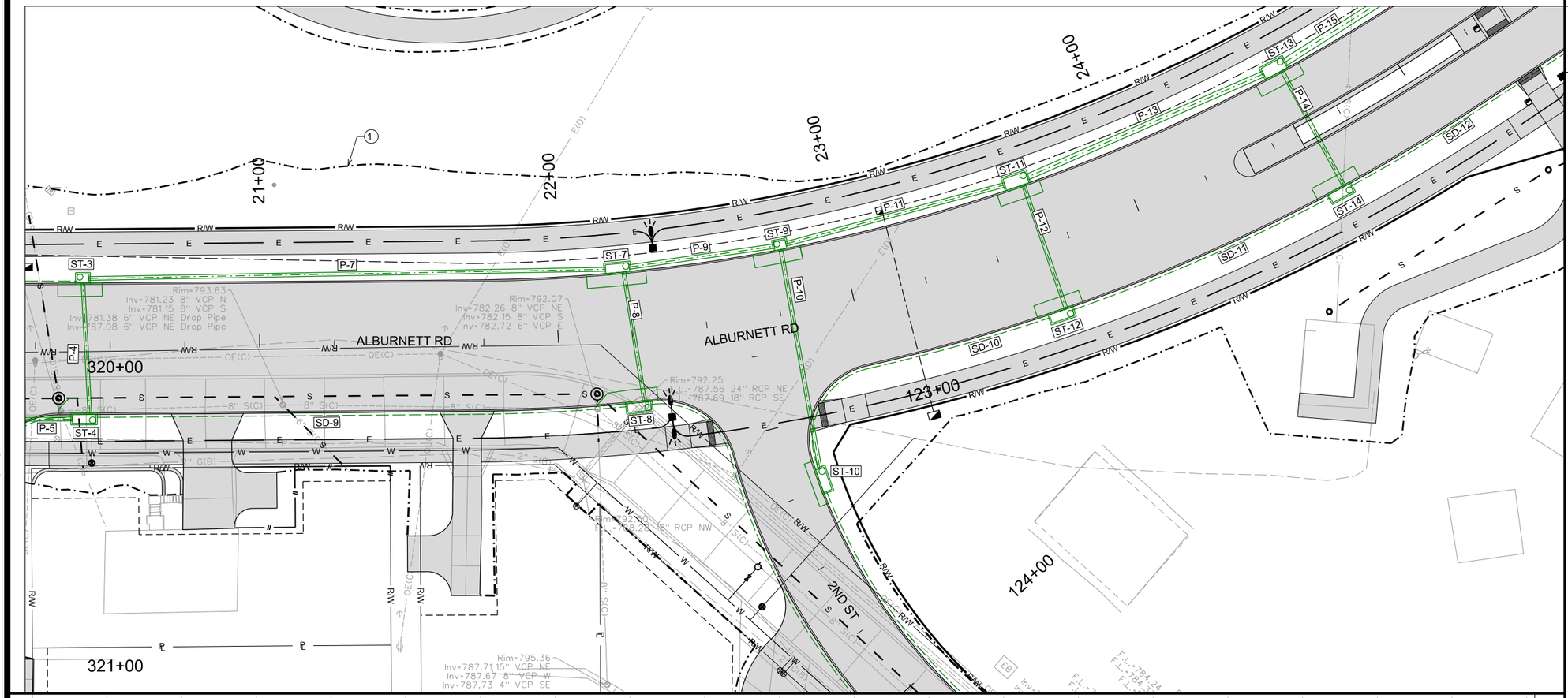
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet M.2

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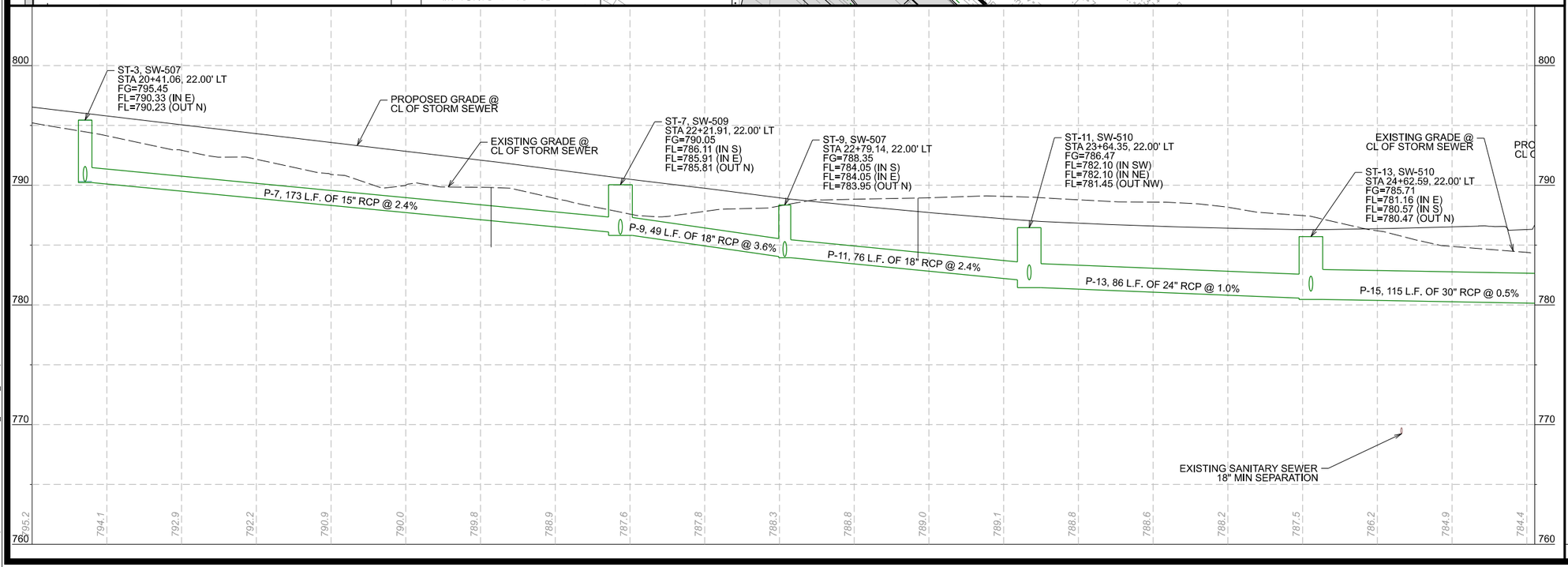


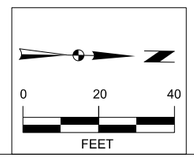
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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS





MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB | Checked By: DMS | Field Bk.: | Pg:

Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet M.3

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

CITY OF MARION, IOWA

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900 BELL DRIVE S.W.
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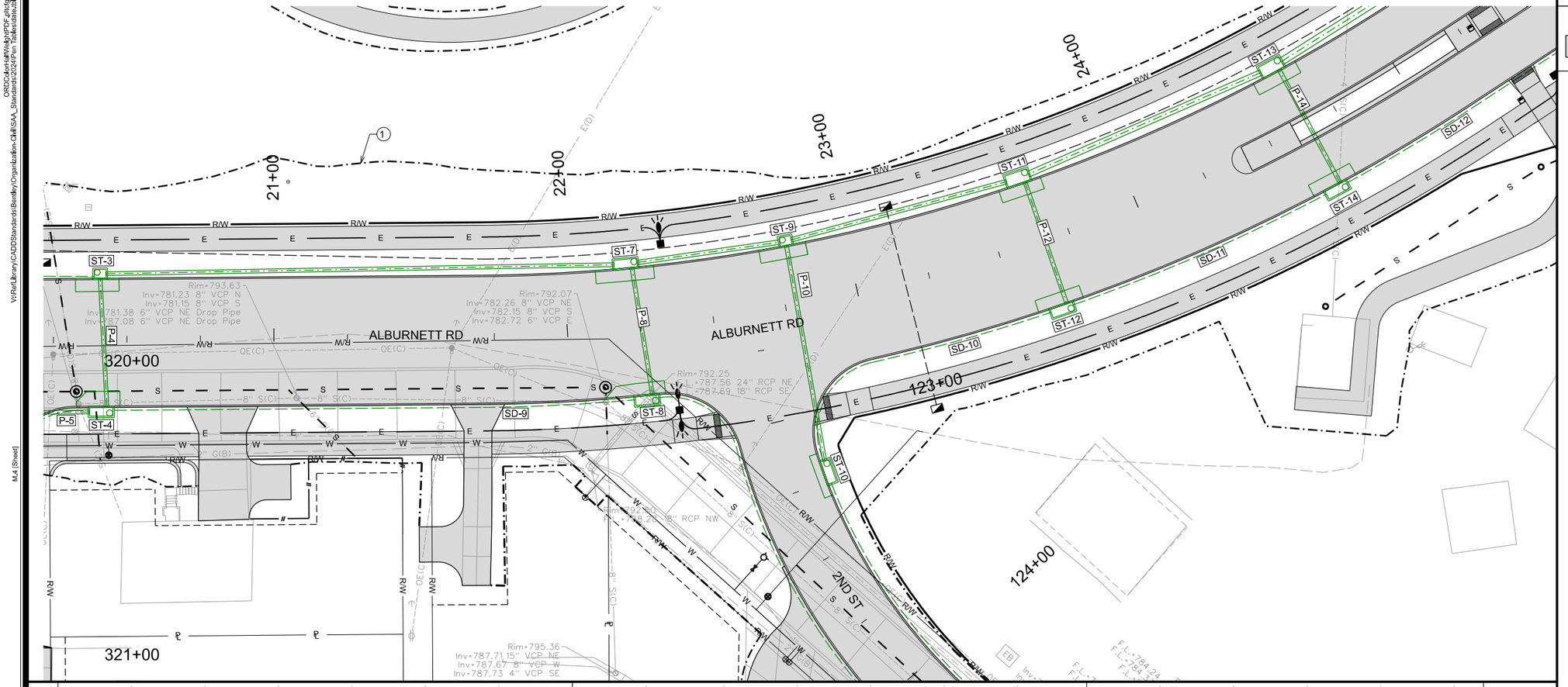
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Project No: 116.0663

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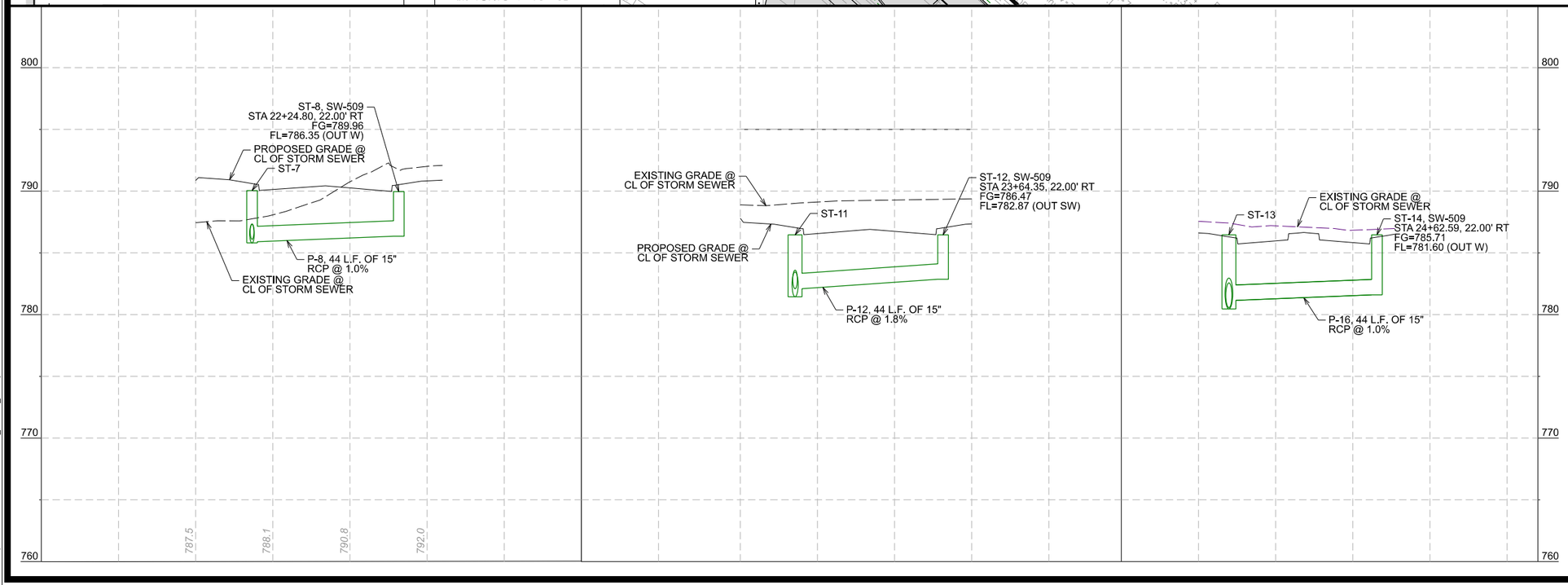


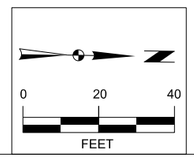
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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS





MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB | Checked By: DMS | Field Bk.:
Technician: KMM | Date: 5/8/2026 | Pg.:

Project No: 116.0663

Sheet M.4

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

BURIED PIPE SHEETS - STORM

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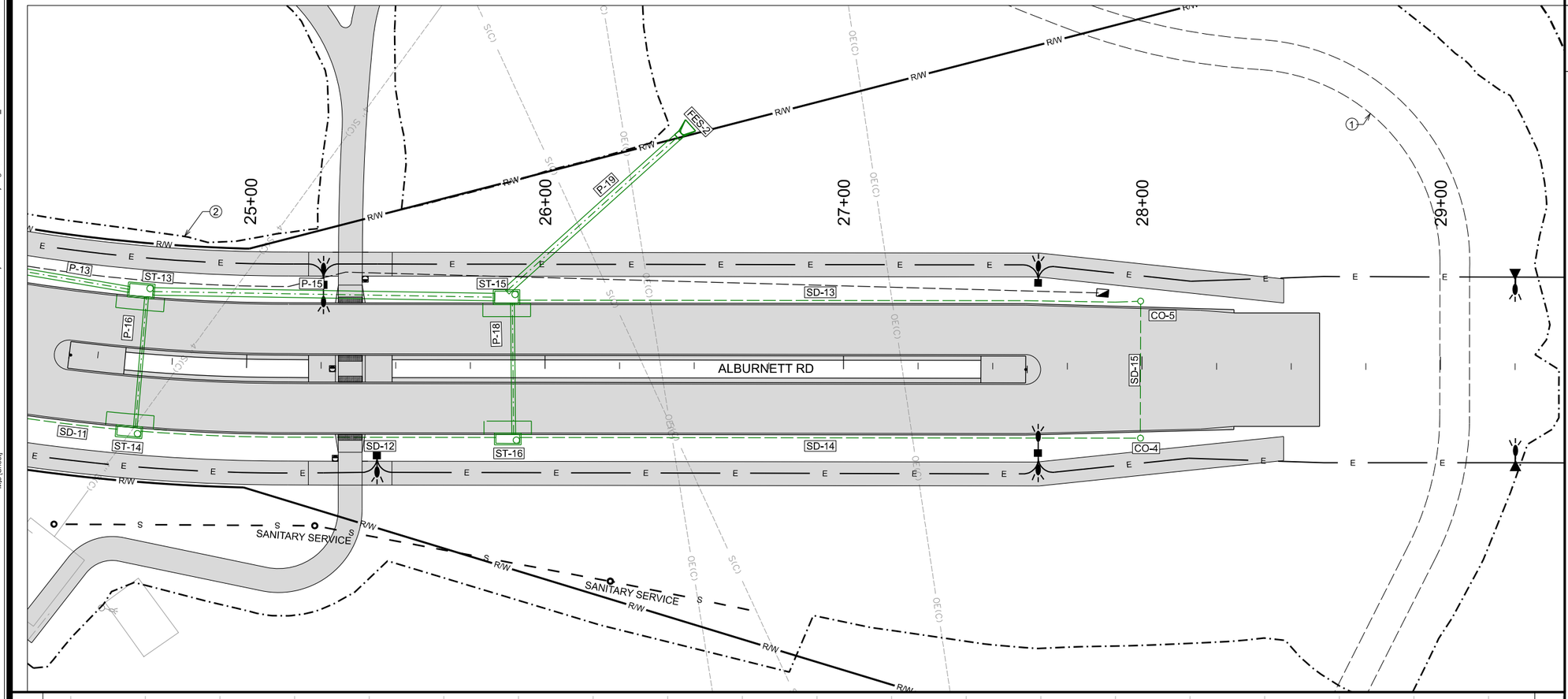
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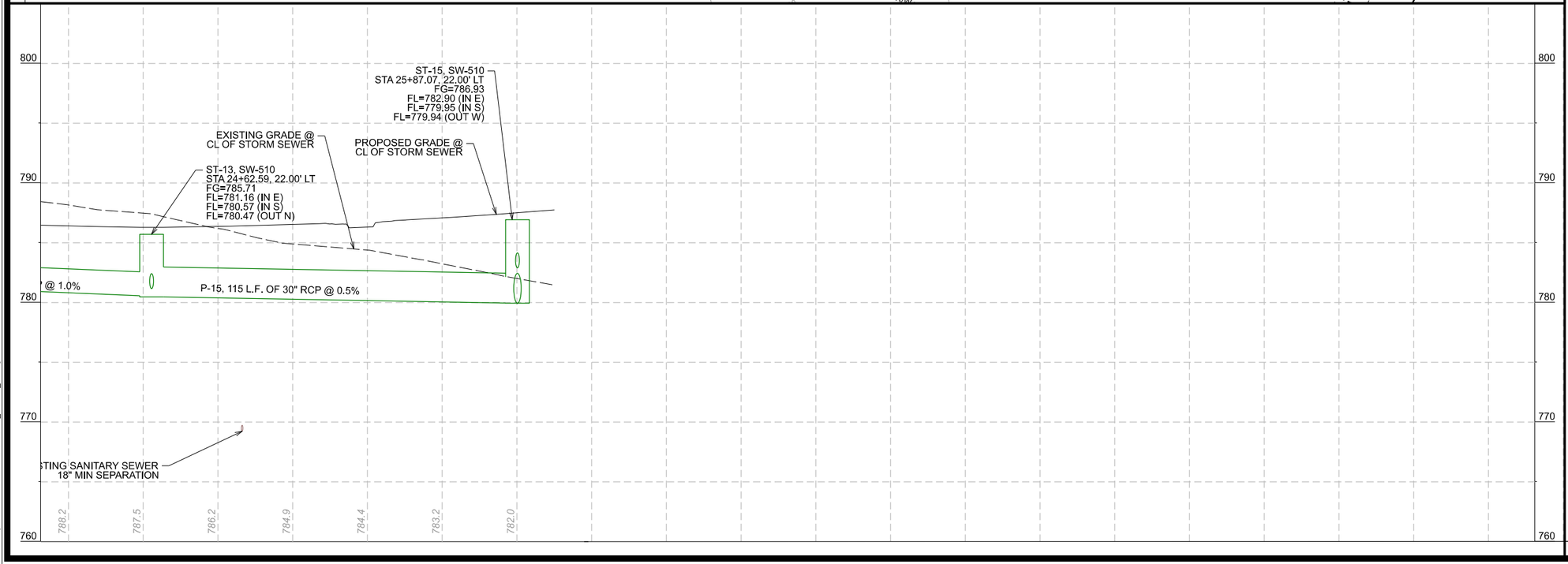
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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. FUTURE SIDEWALK
2. GRADING LIMITS

0 20 40
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:

Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663 Sheet M.5

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

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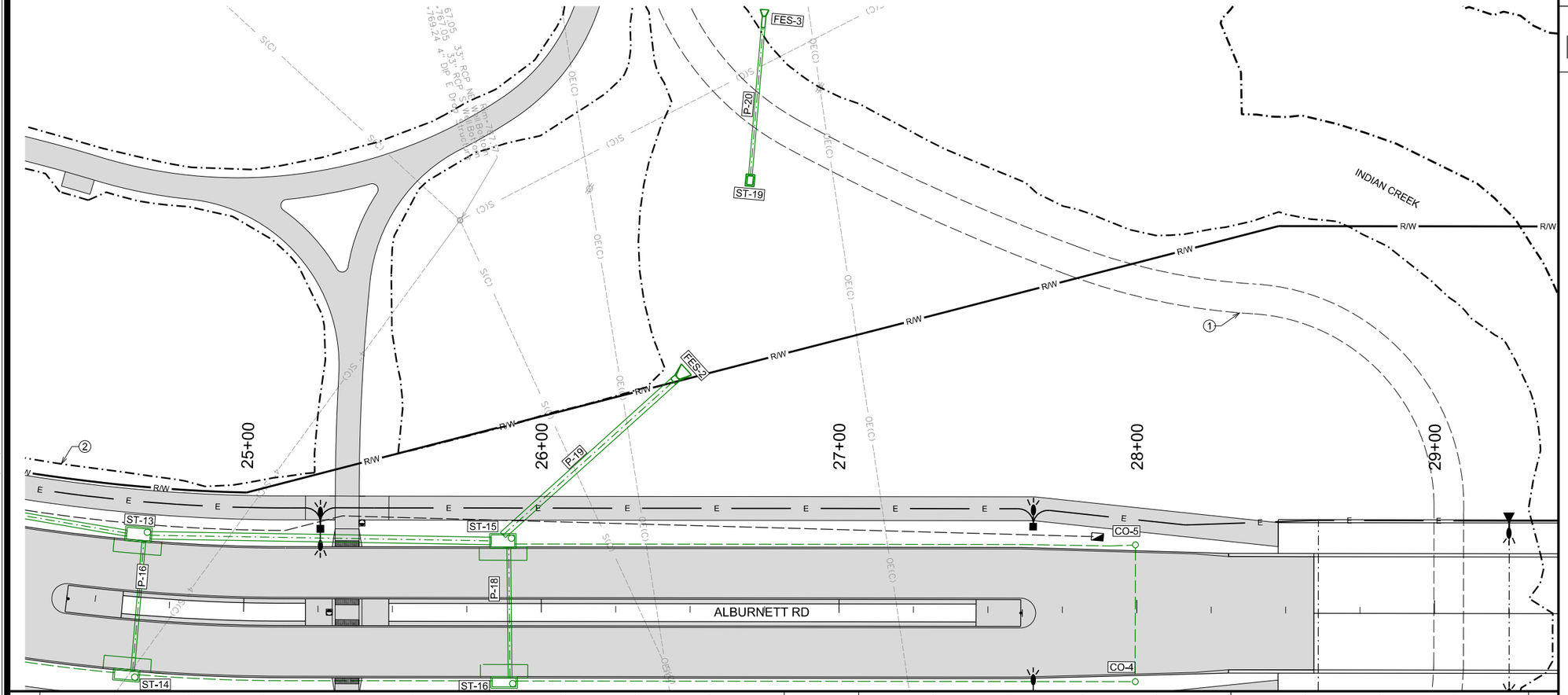
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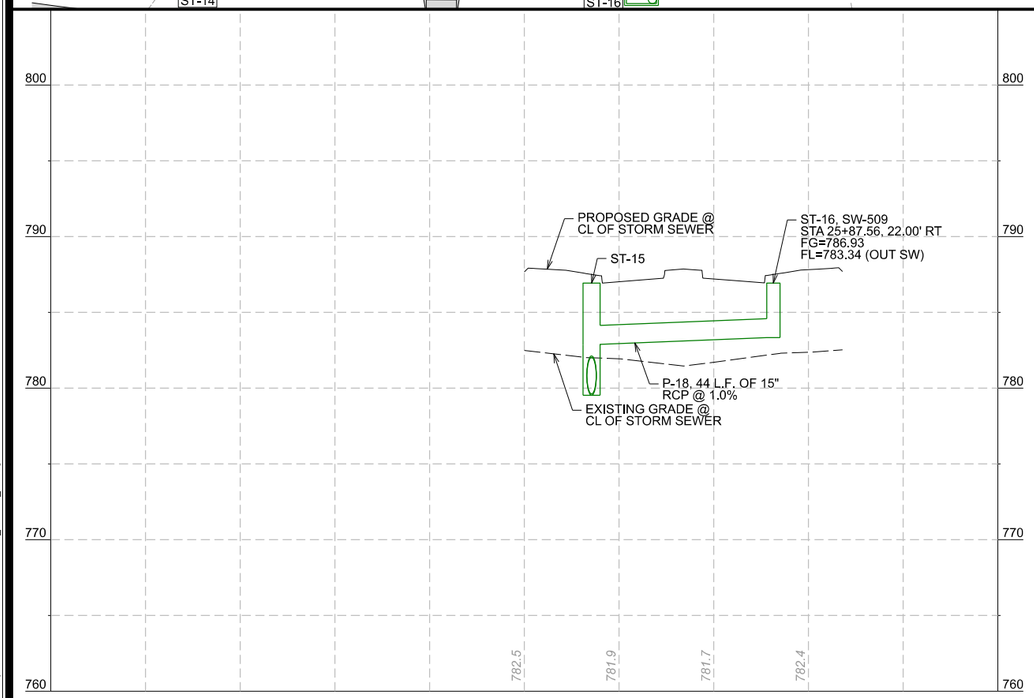
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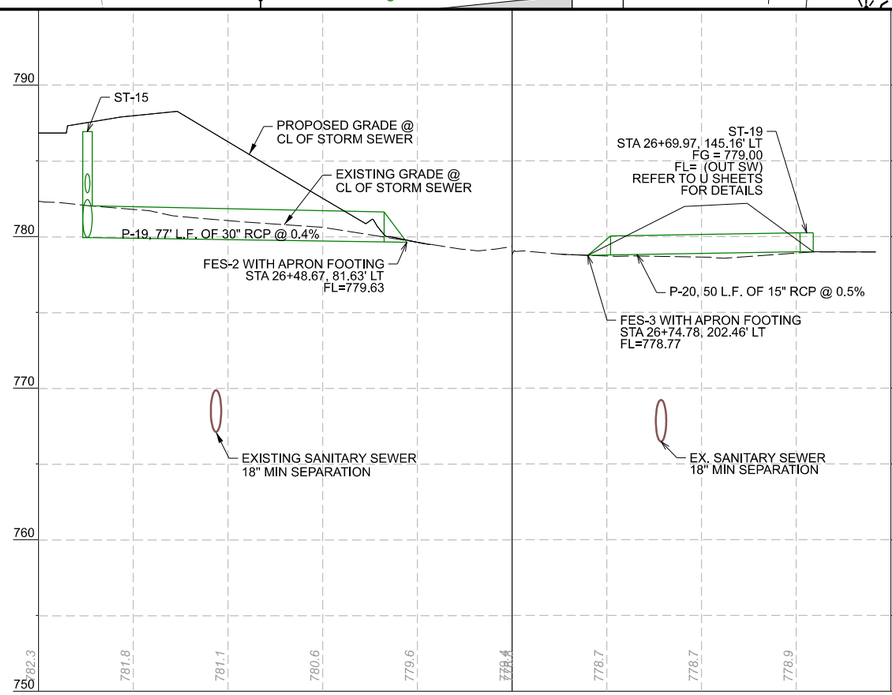
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Sheet M.5

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. FUTURE SIDEWALK
2. GRADING LIMITS

0 20 40
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:

Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet M.6

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

BURIED PIPE SHEETS - STORM

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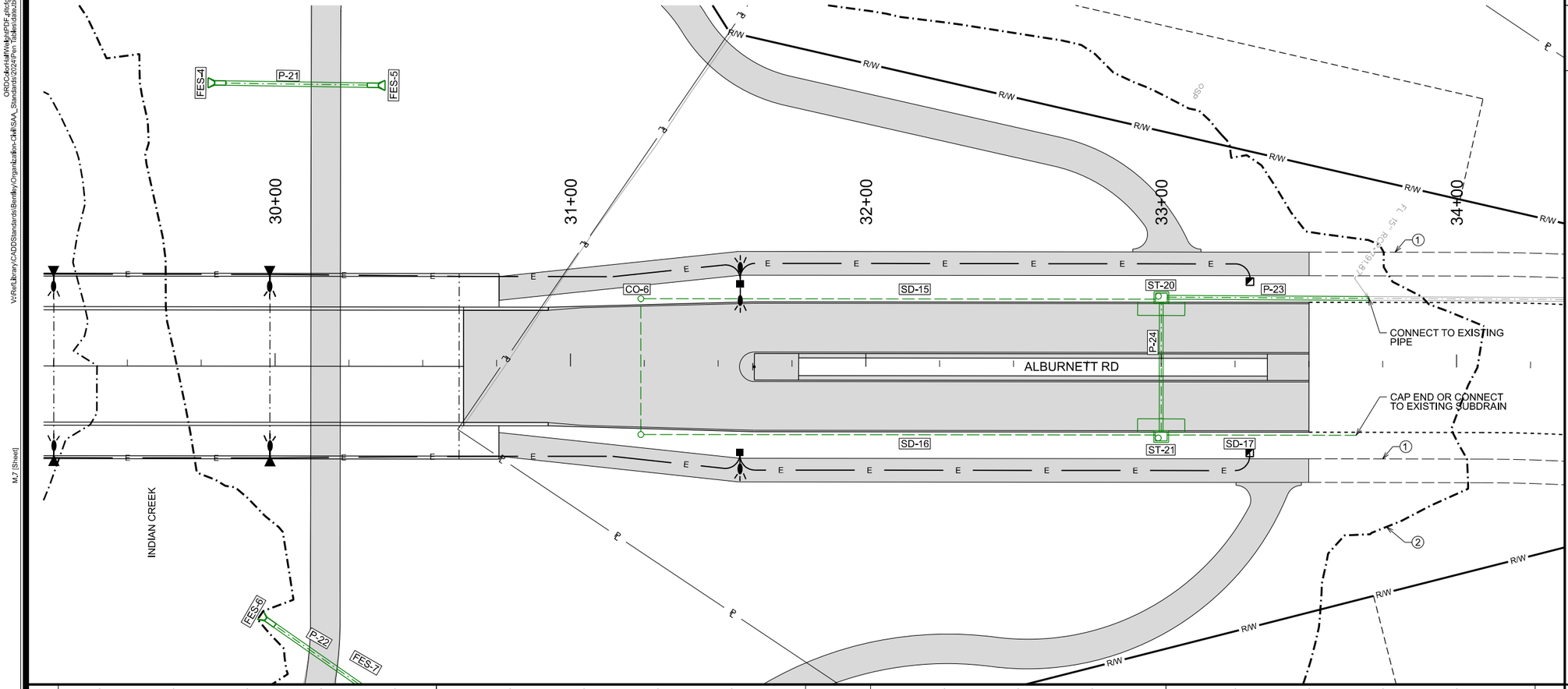
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Project No: 116.0663

Sheet M.6

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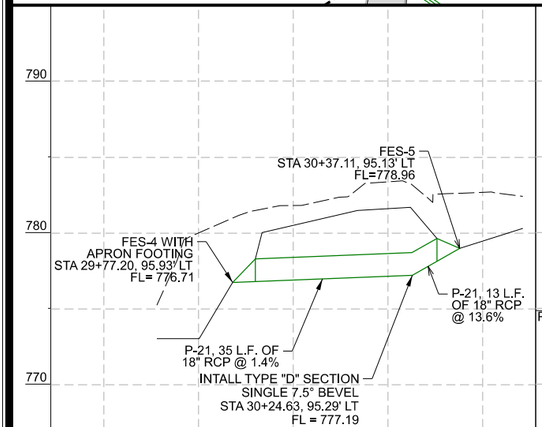


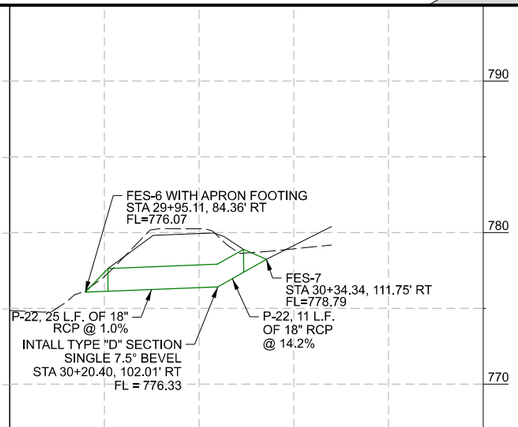
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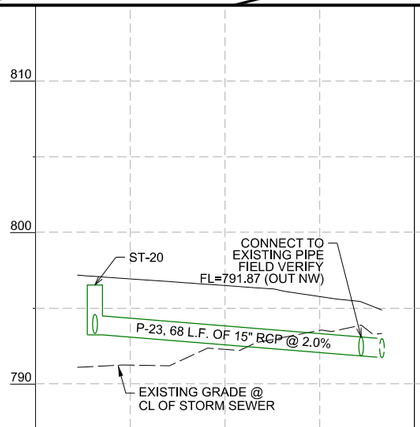
PROPOSED PAVEMENT IMPROVEMENTS

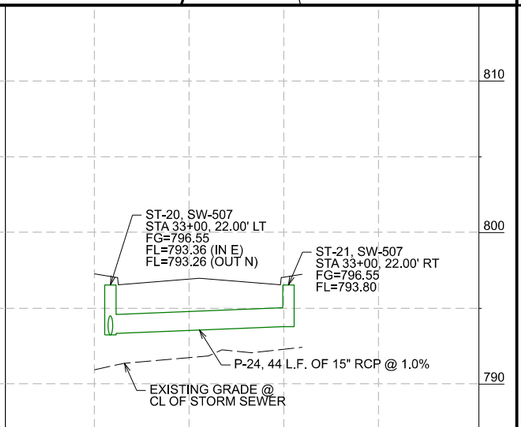
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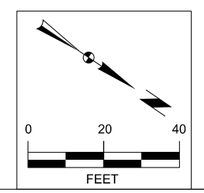
1. FUTURE SIDEWALK
2. GRADING LIMITS











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		FINAL PLANS	DATE	
MARK		REVISION		
Engineer:	MGB	Checked By:	DMS	Field Bk:
Technician:	KMM	Date:	5/8/2026	Pg:

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Project No: 116.0663

Sheet M.7

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

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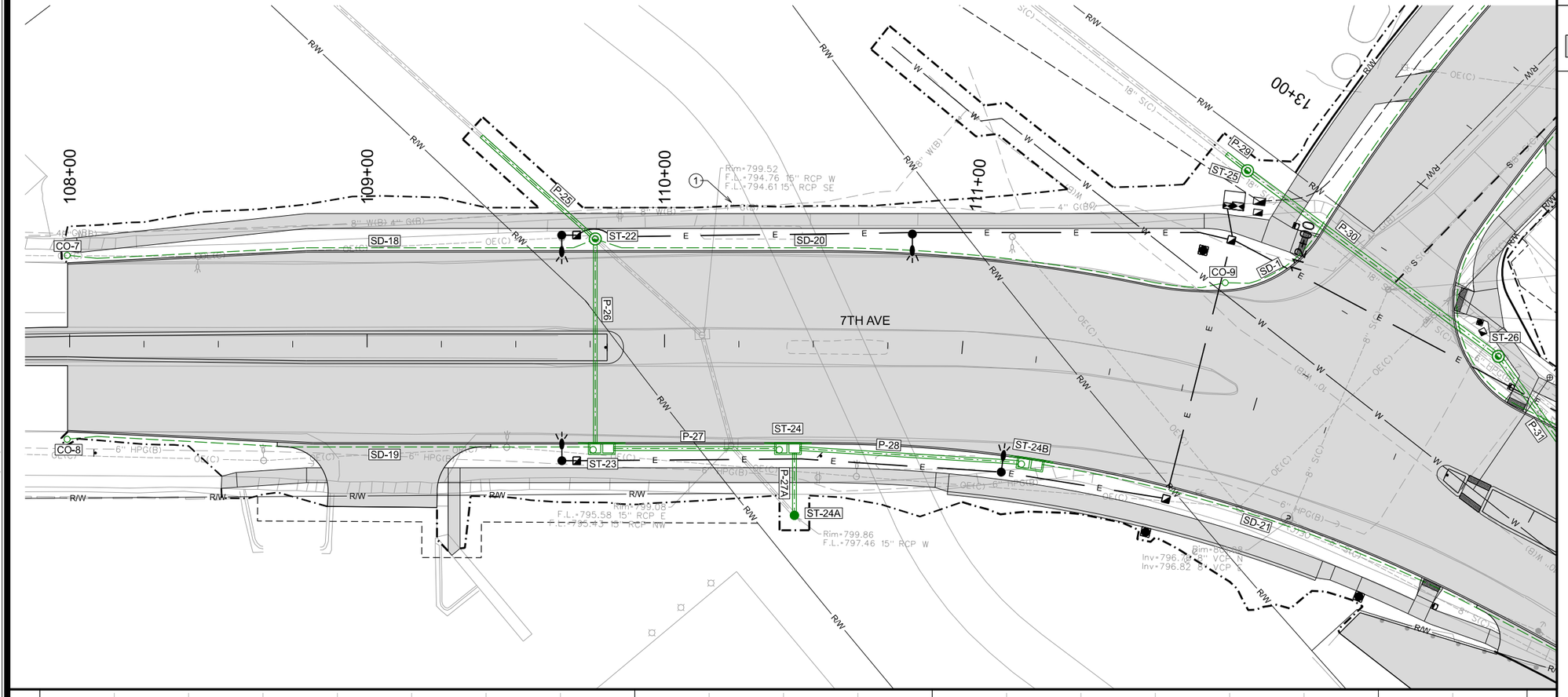
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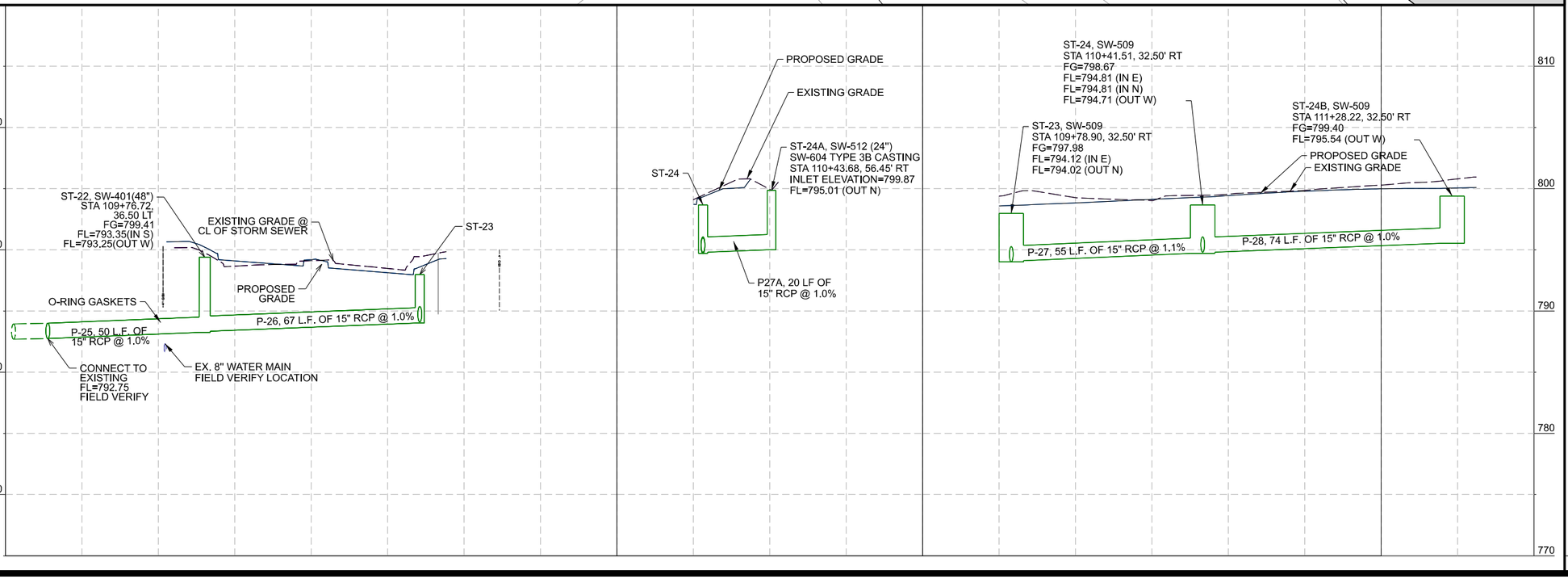
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Project No: 116.0663

Sheet M.7

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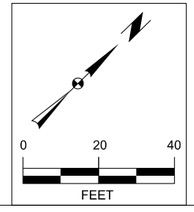


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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.: Pg:

Technician: KMM Date: 5/8/2026

Project No: 116.0663

Sheet M.8

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

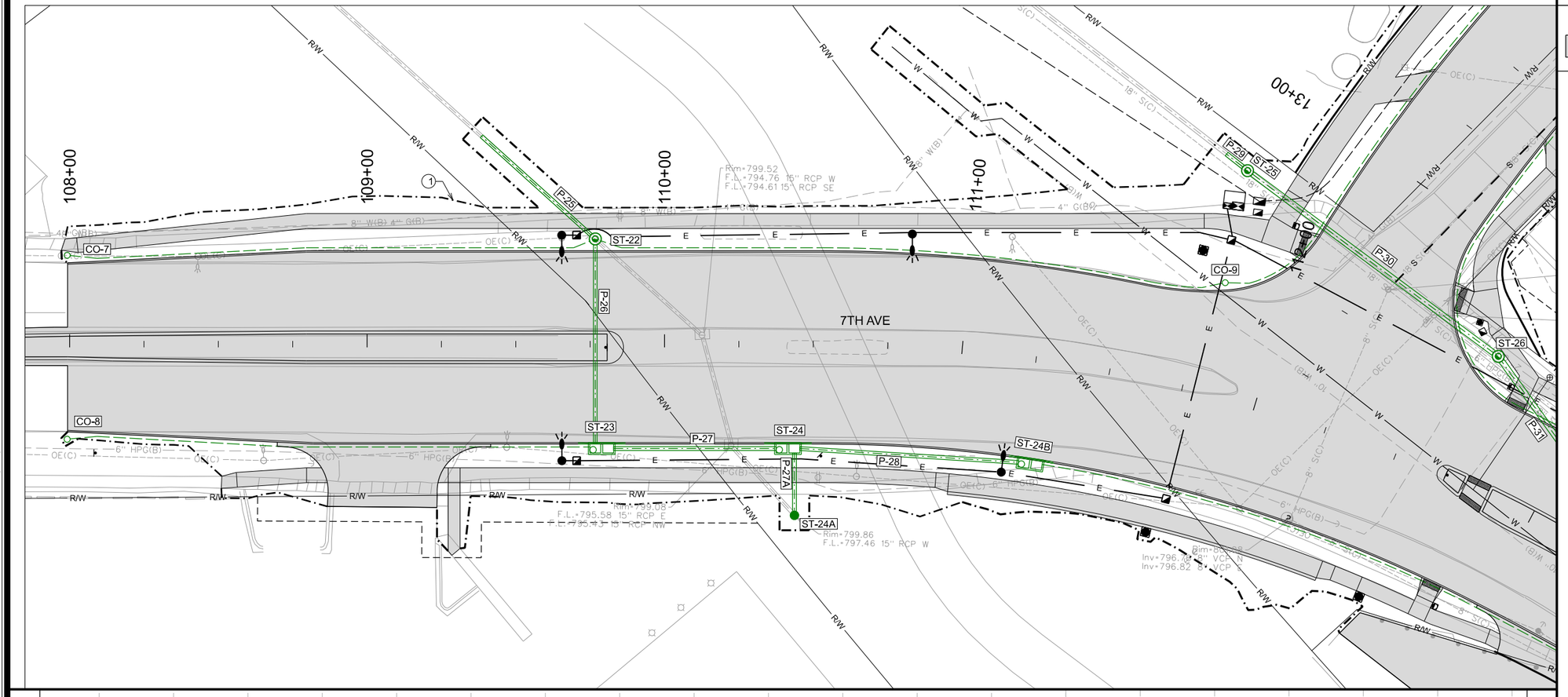
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900 BELL DRIVE S.W.
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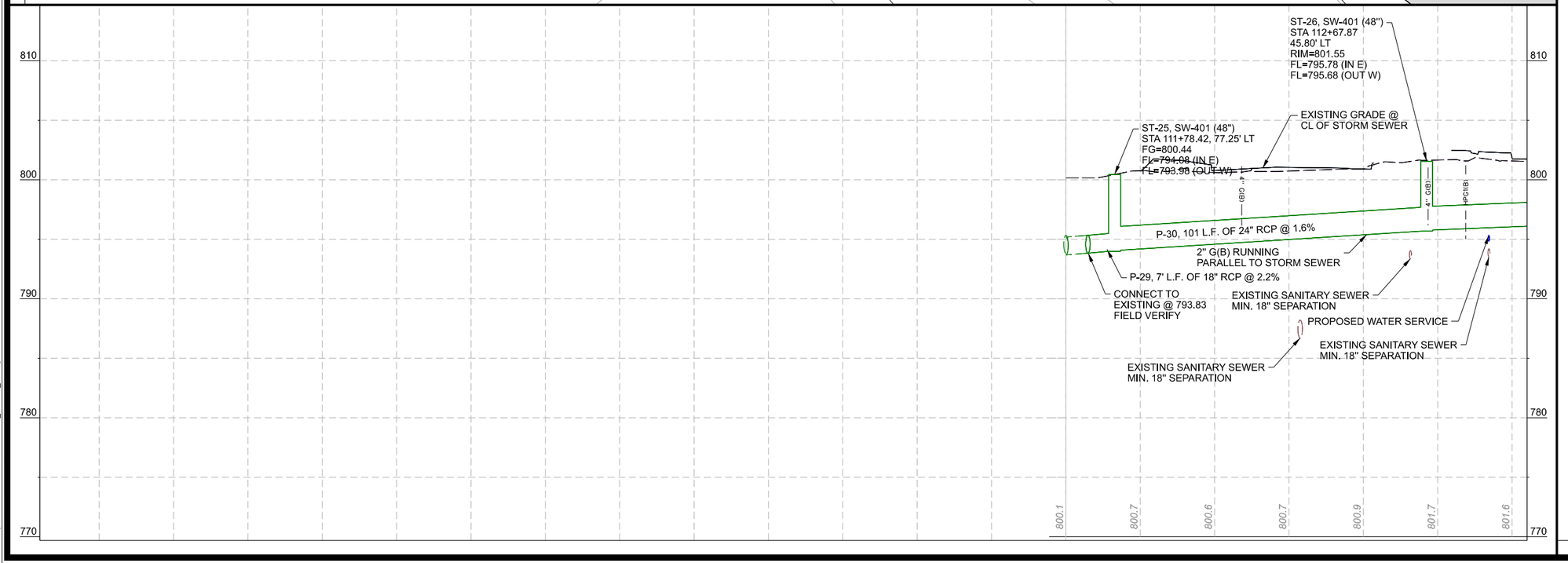
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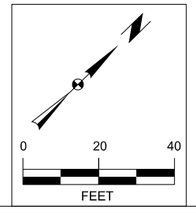
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	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.:
Technician: KMM Date: 5/8/2026 Pg.:

DOT PROJECT NUMBER: HDP-4775(646)--71-57

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

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Project No: 116.0663 Sheet M.9

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet M.9

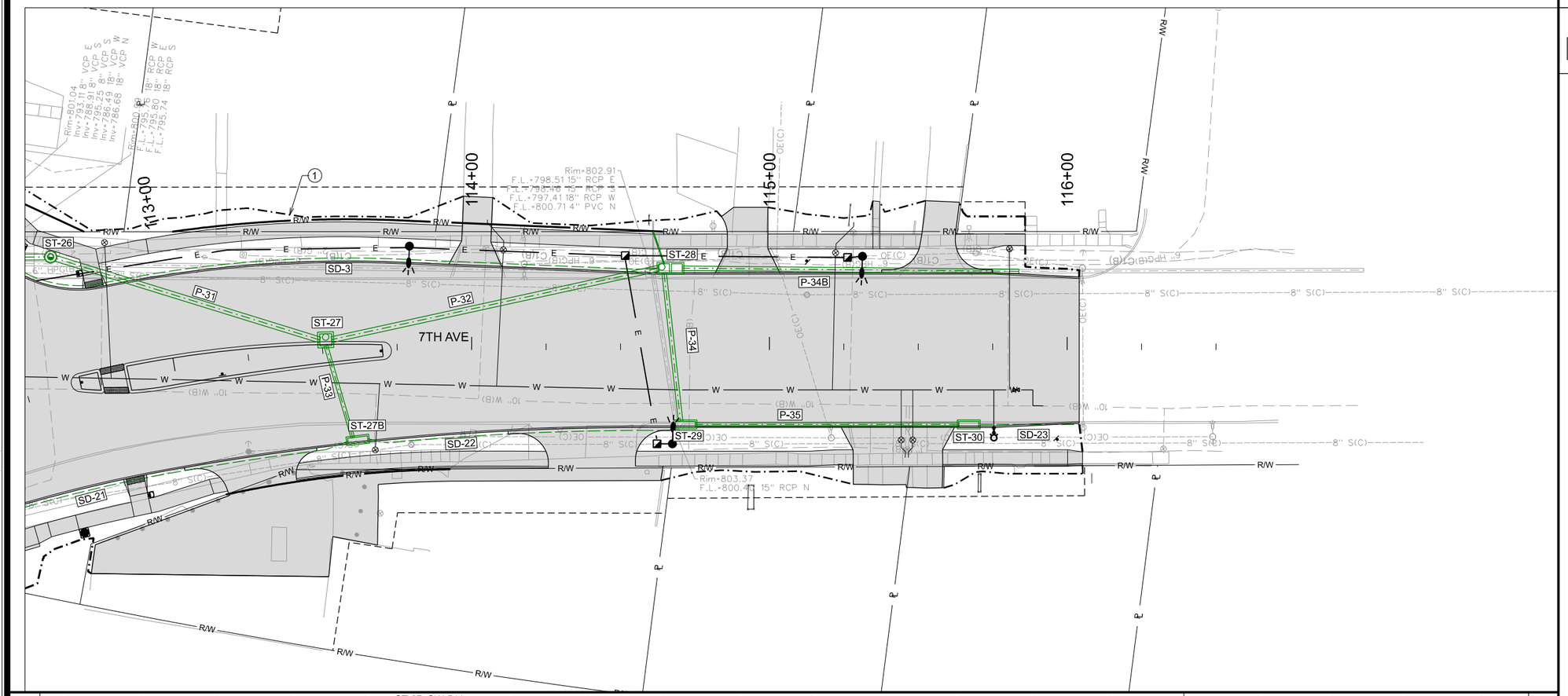
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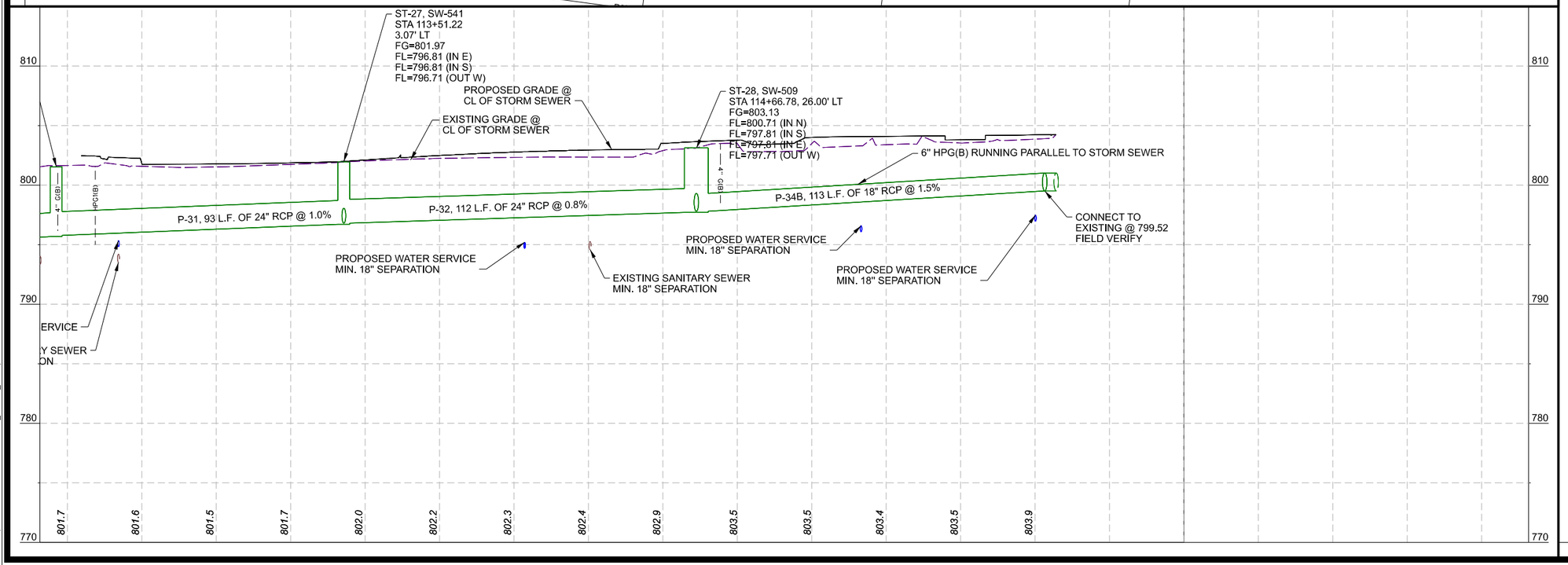
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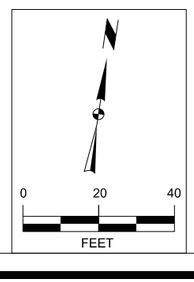
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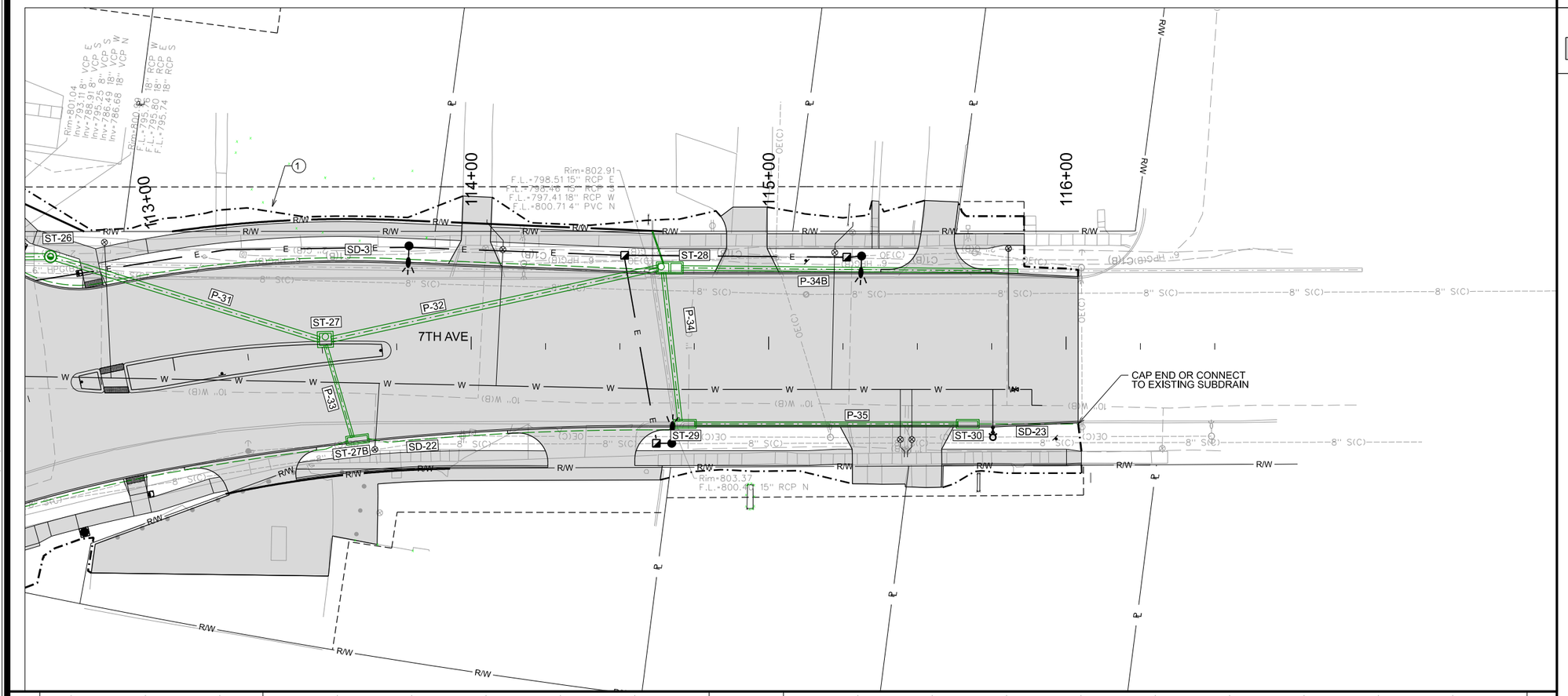


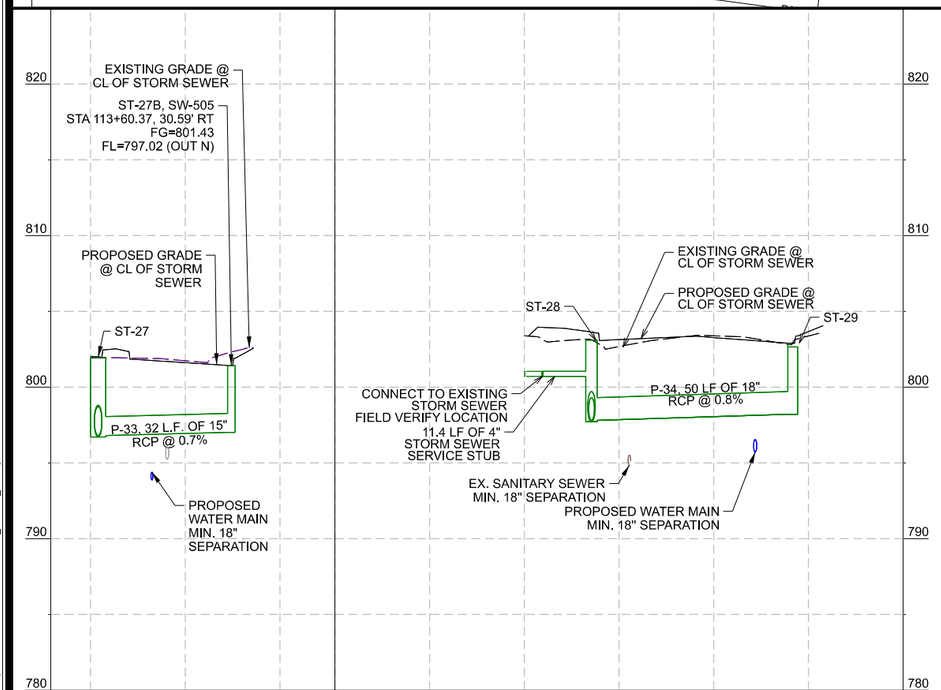


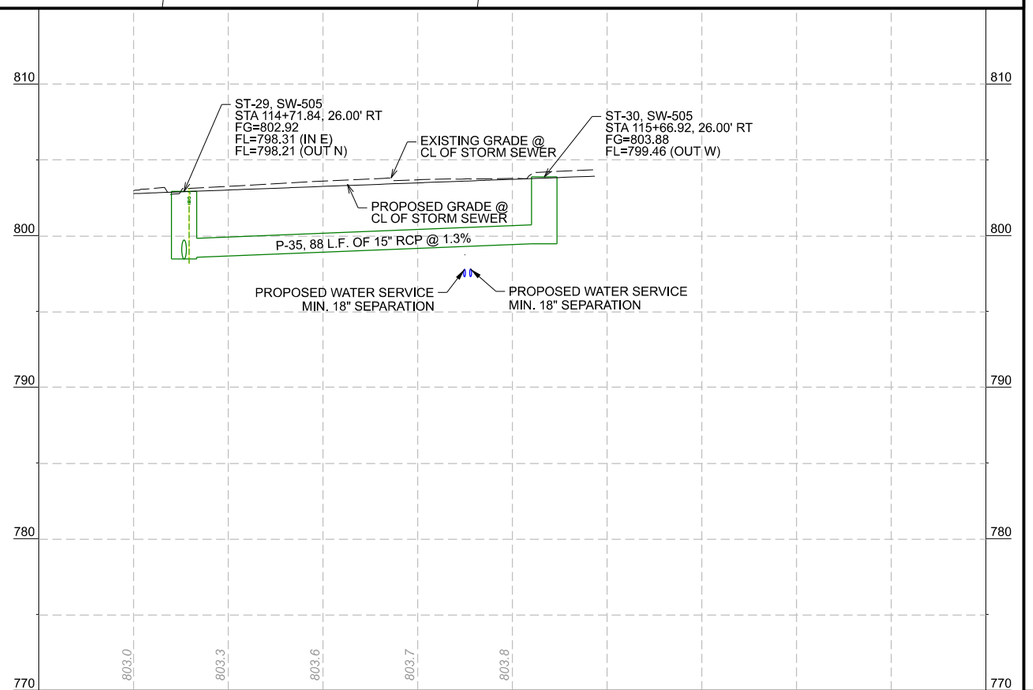


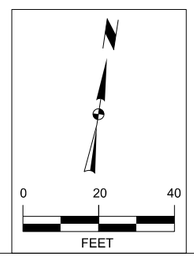
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet M.11

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

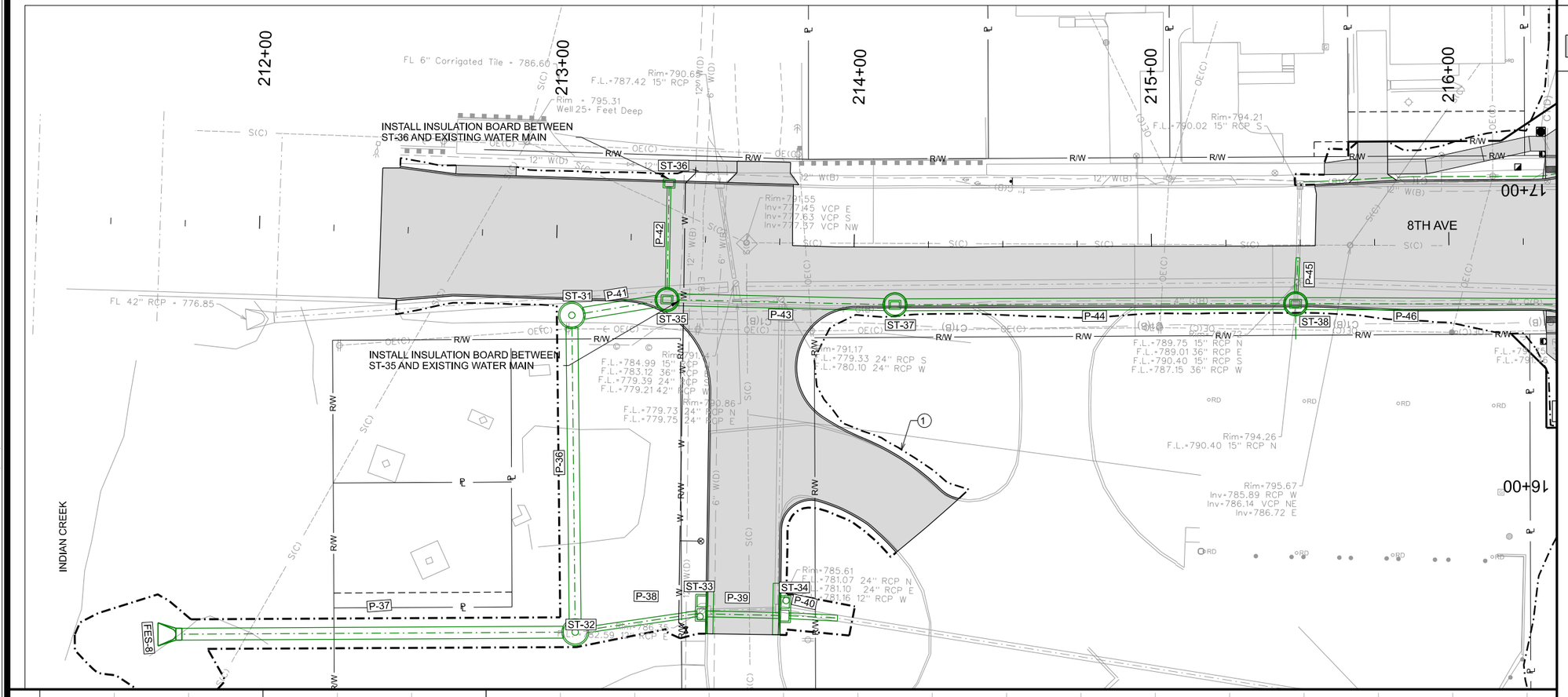
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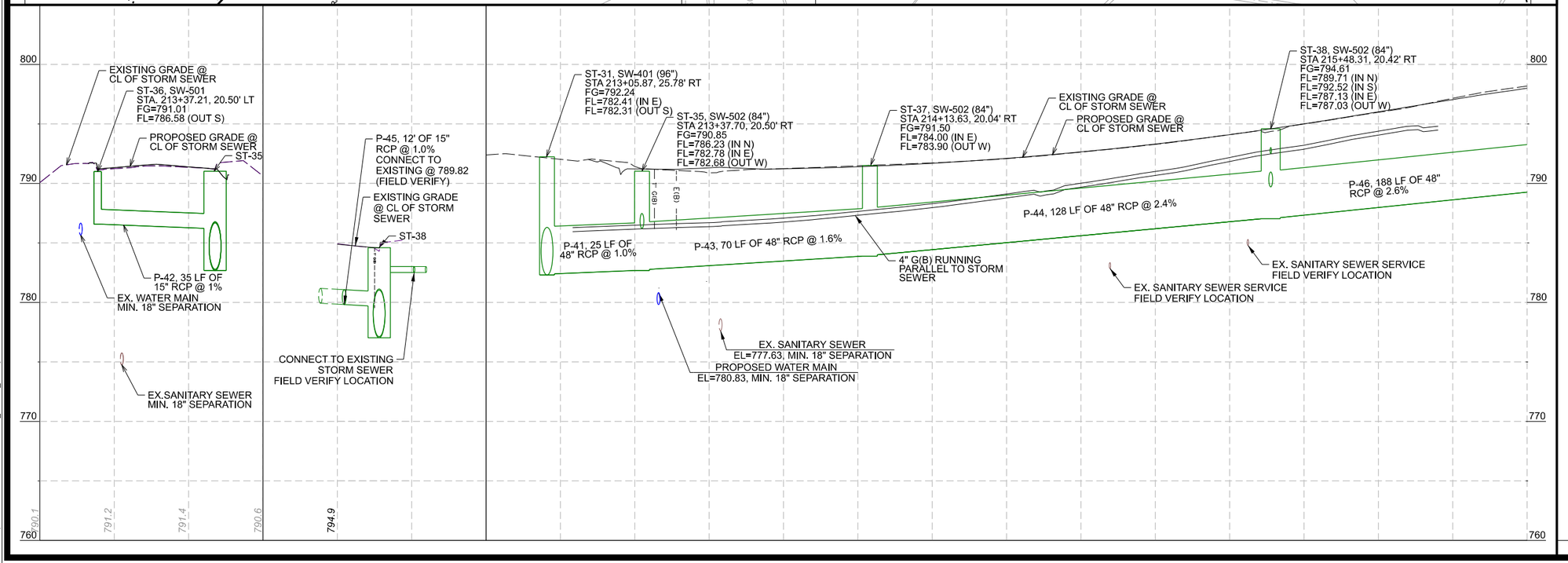
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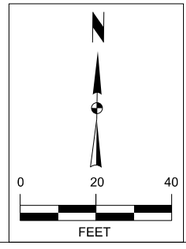


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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk.: | Pg:
Technician: KMM | Date: 5/8/2026 | Project No: 116.0663 | Sheet M.12

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

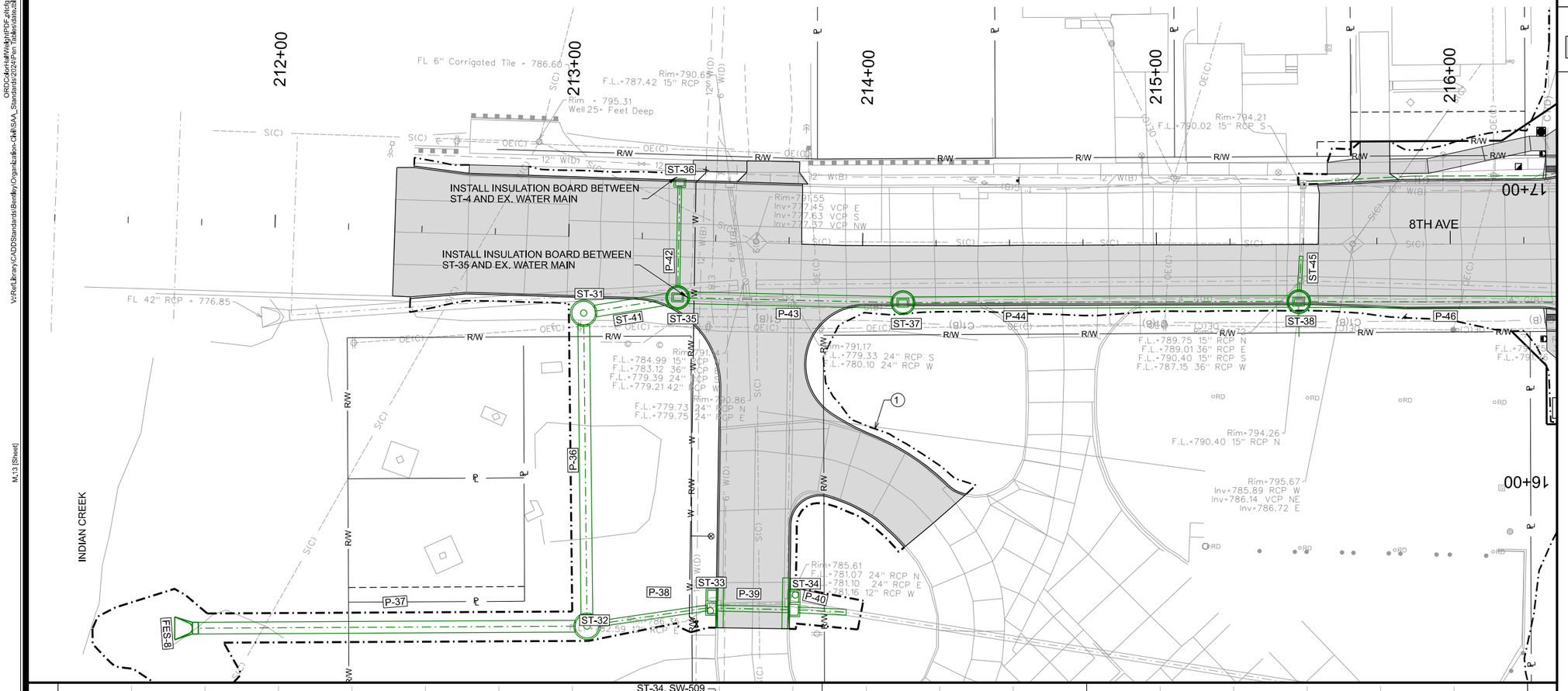
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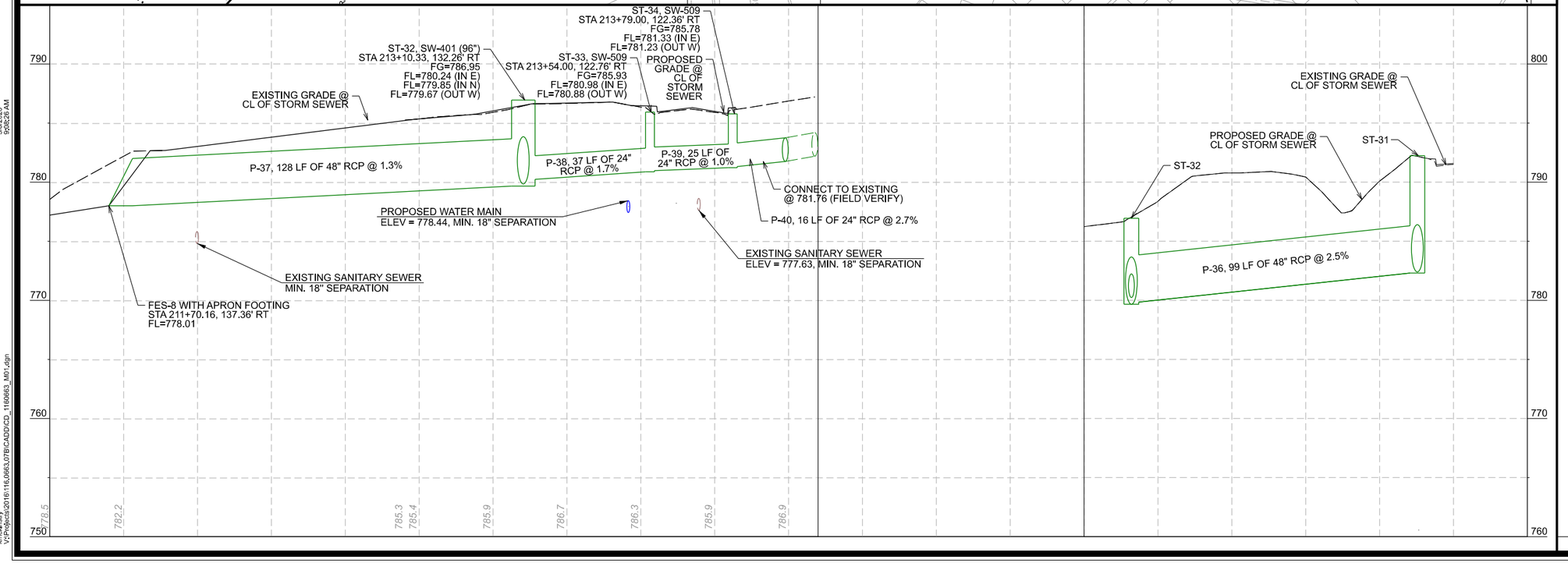
SNYDER & ASSOCIATES, INC.
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Project No: 116.0663
Sheet M.12

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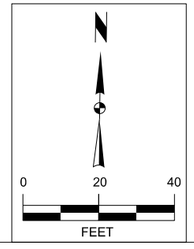


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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet M.13

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

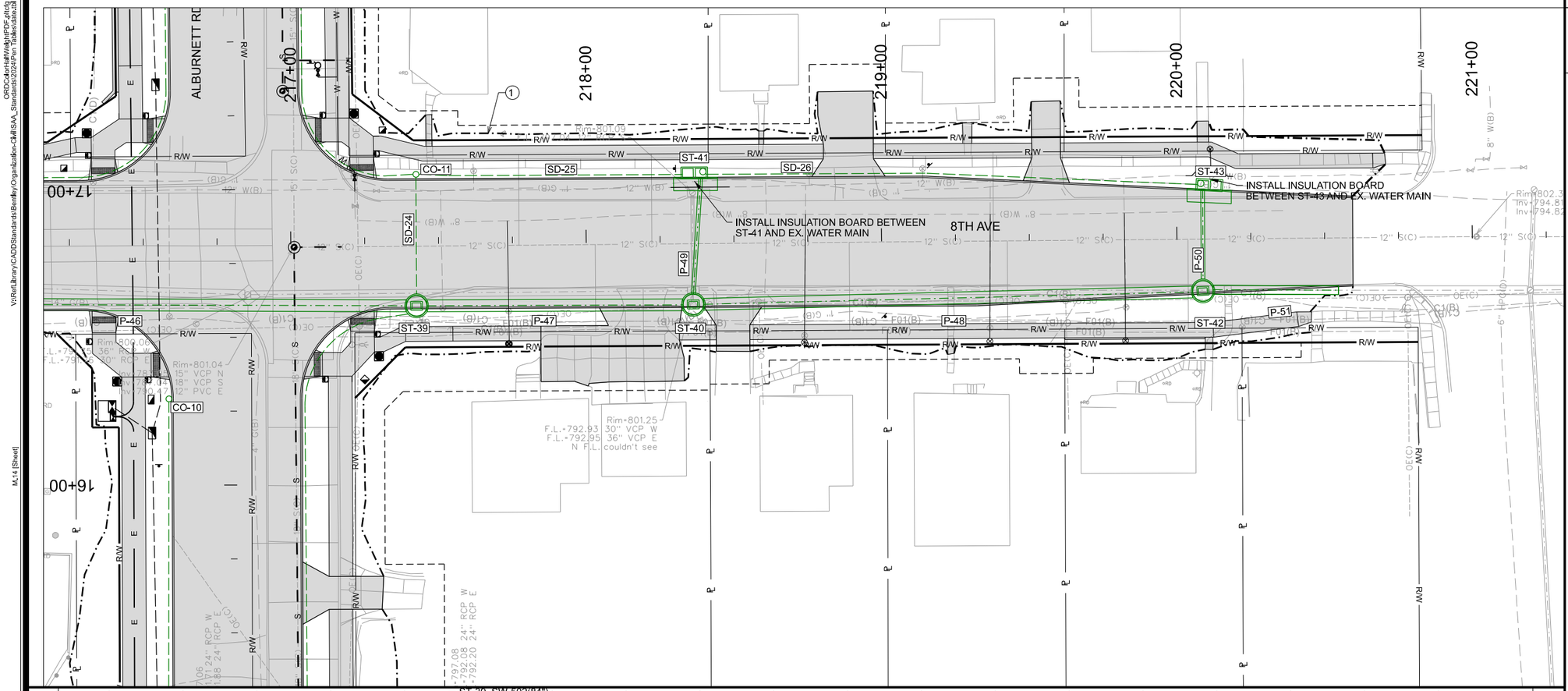
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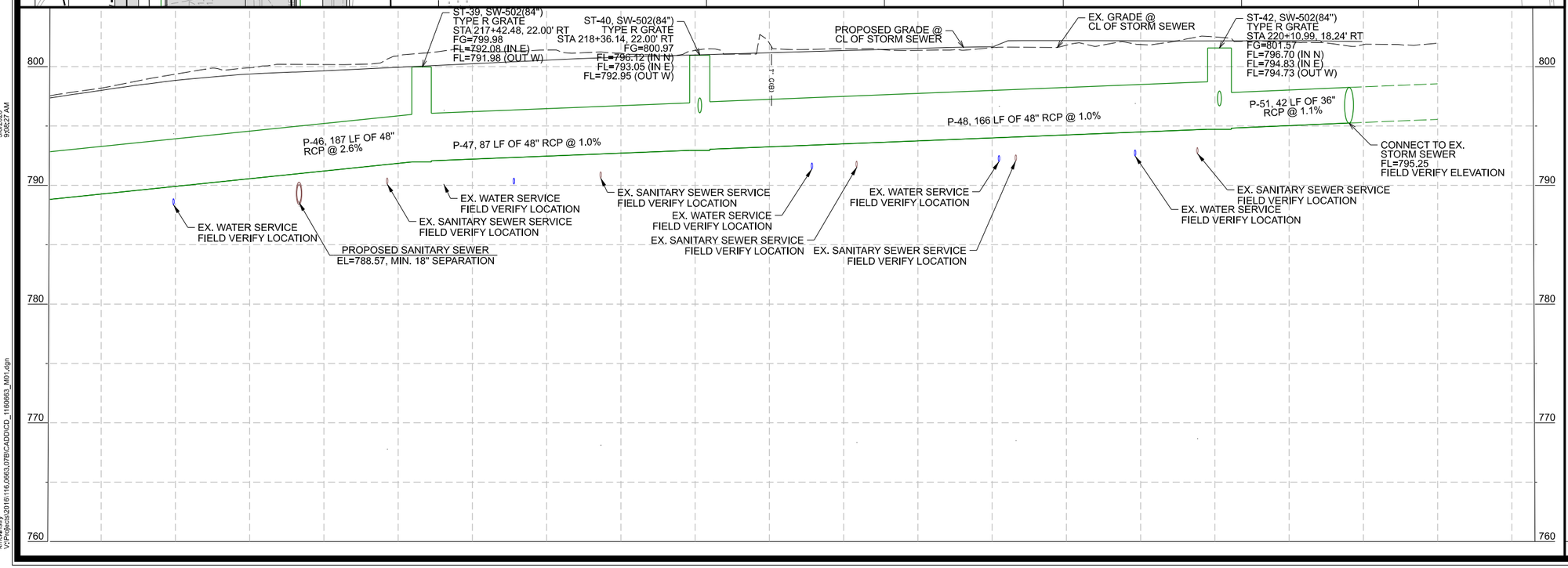
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Project No: 116.0663

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk.: | Pg:
Technician: KMM | Date: 5/8/2026 | Project No: 116.0663 | Sheet M.14

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

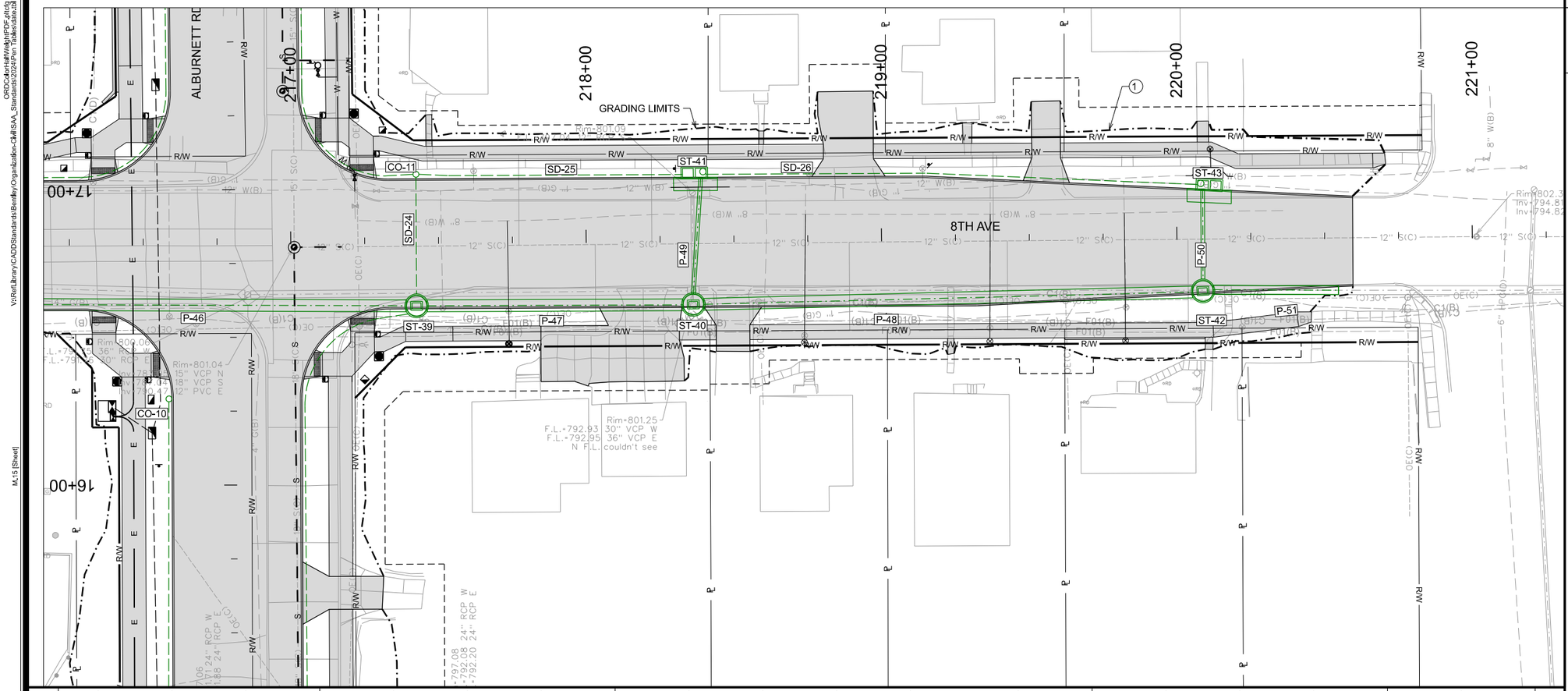
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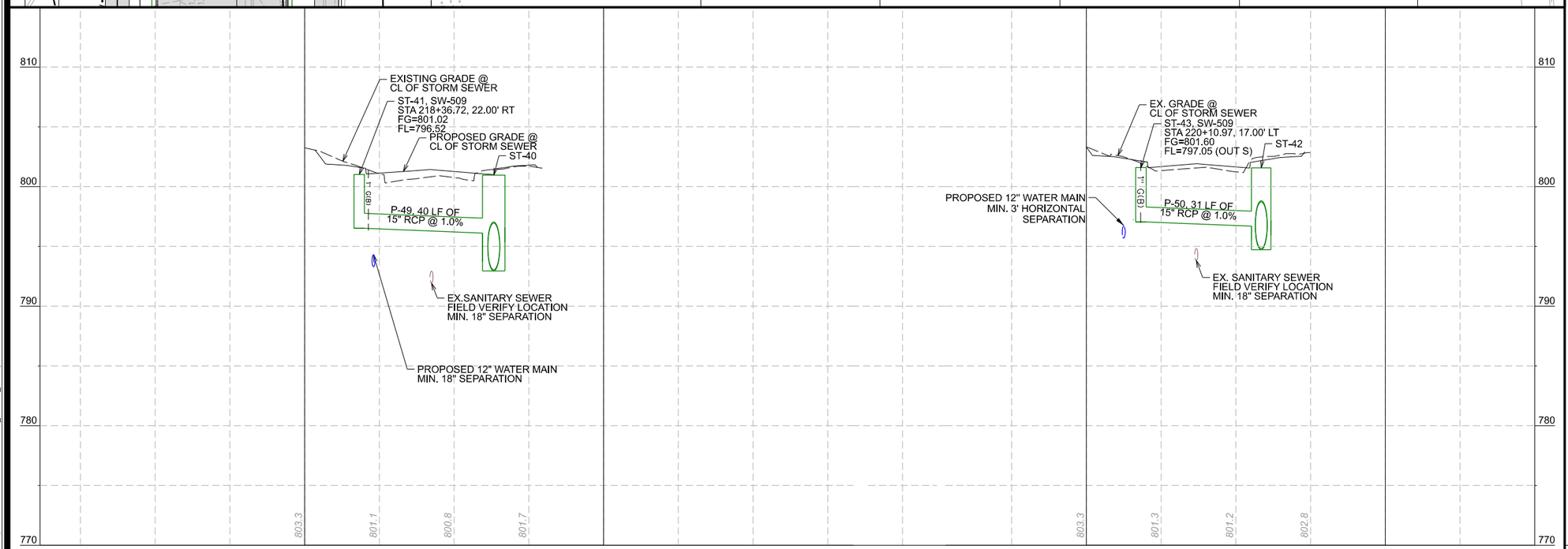
SNYDER & ASSOCIATES, INC.
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Project No: 116.0663
Sheet M.14

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet M.15

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

BURIED PIPE SHEETS - STORM

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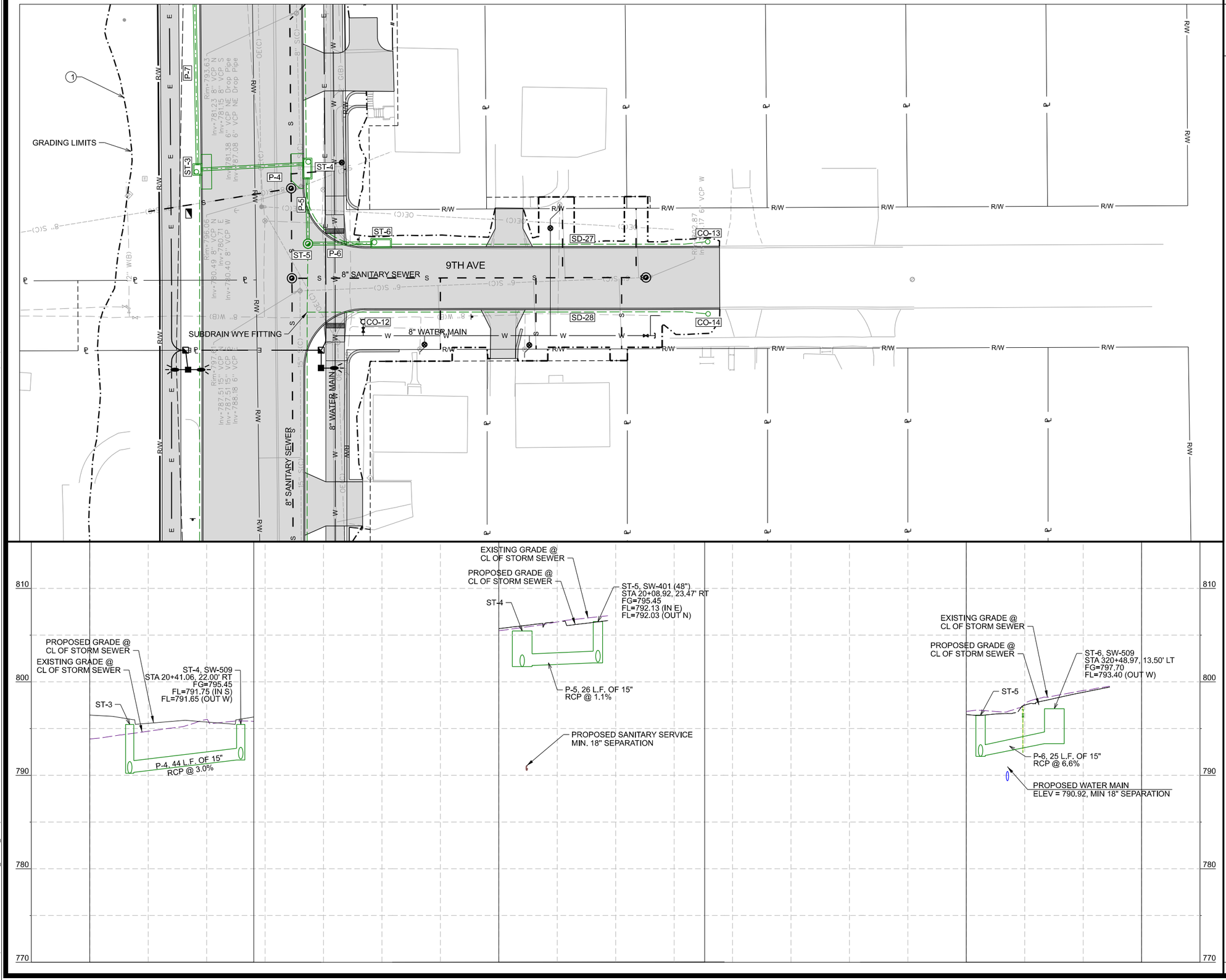
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Project No: 116.0663

Sheet M.15

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.: Pg:

Technician: KMM Date: 5/8/2026

Project No: 116.0663

Sheet M.16

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

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Project No: 116.0663

Sheet M.16

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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS

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MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB Checked By: DMS Field Bk:

Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet M.17

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

SNYDER & ASSOCIATES, INC.

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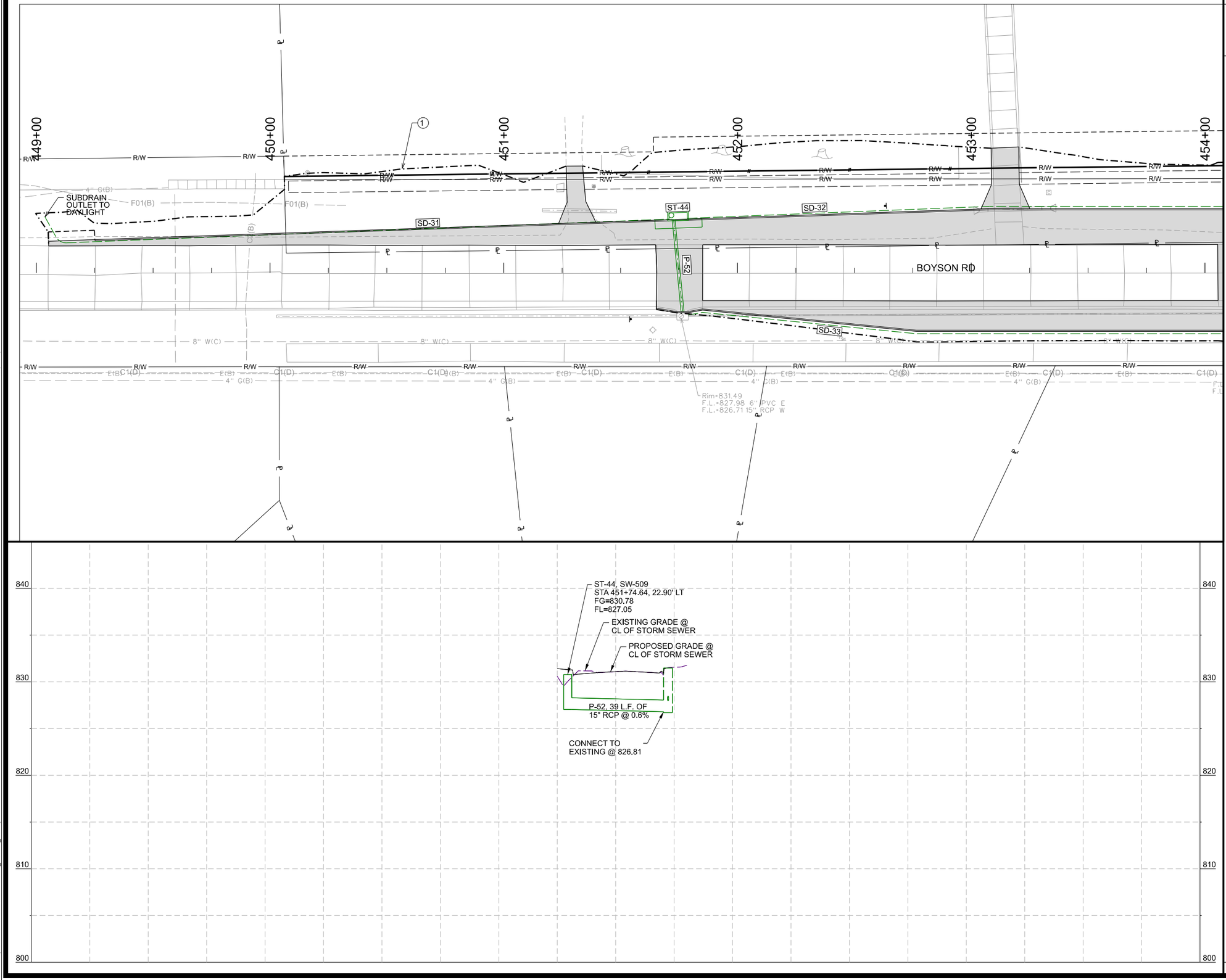
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Project No: 116.0663

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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet M.18

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
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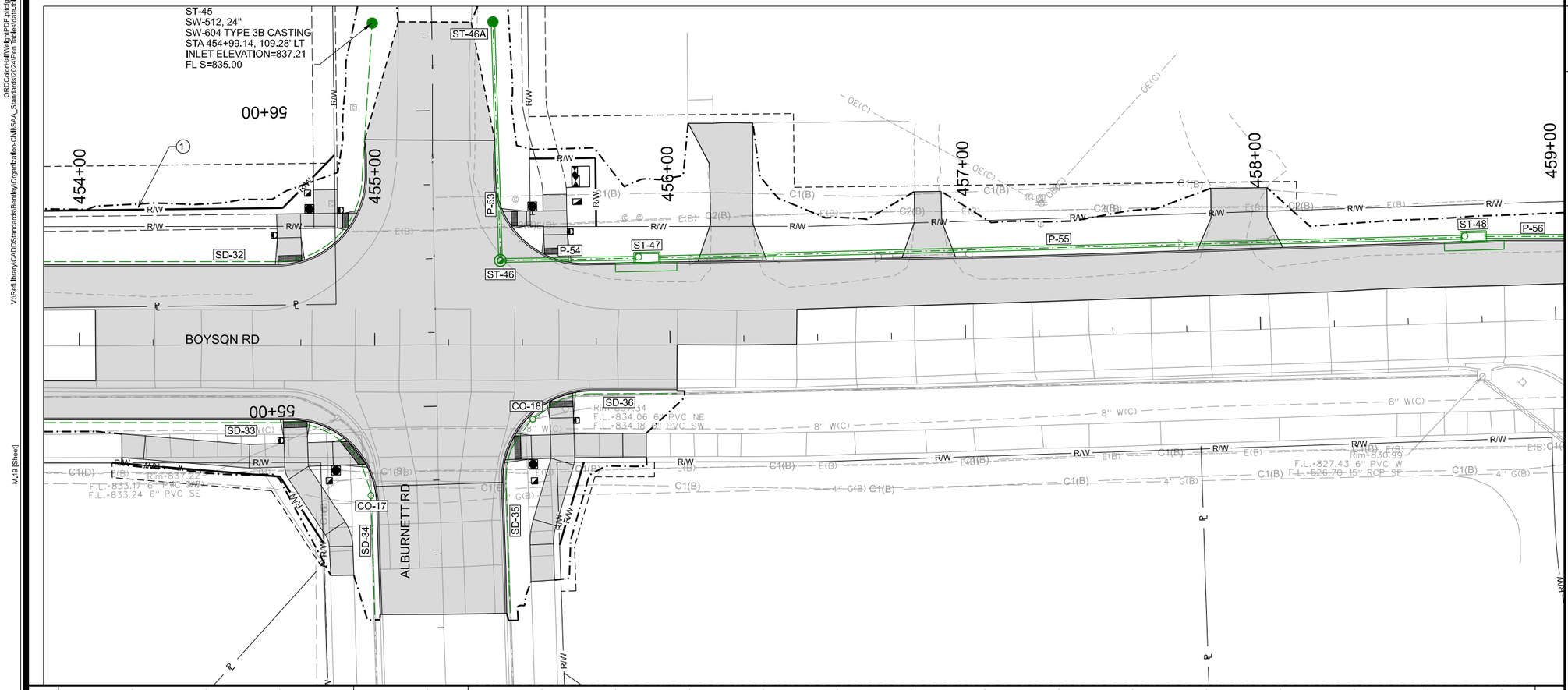
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SNYDER & ASSOCIATES

Project No: 116.0663

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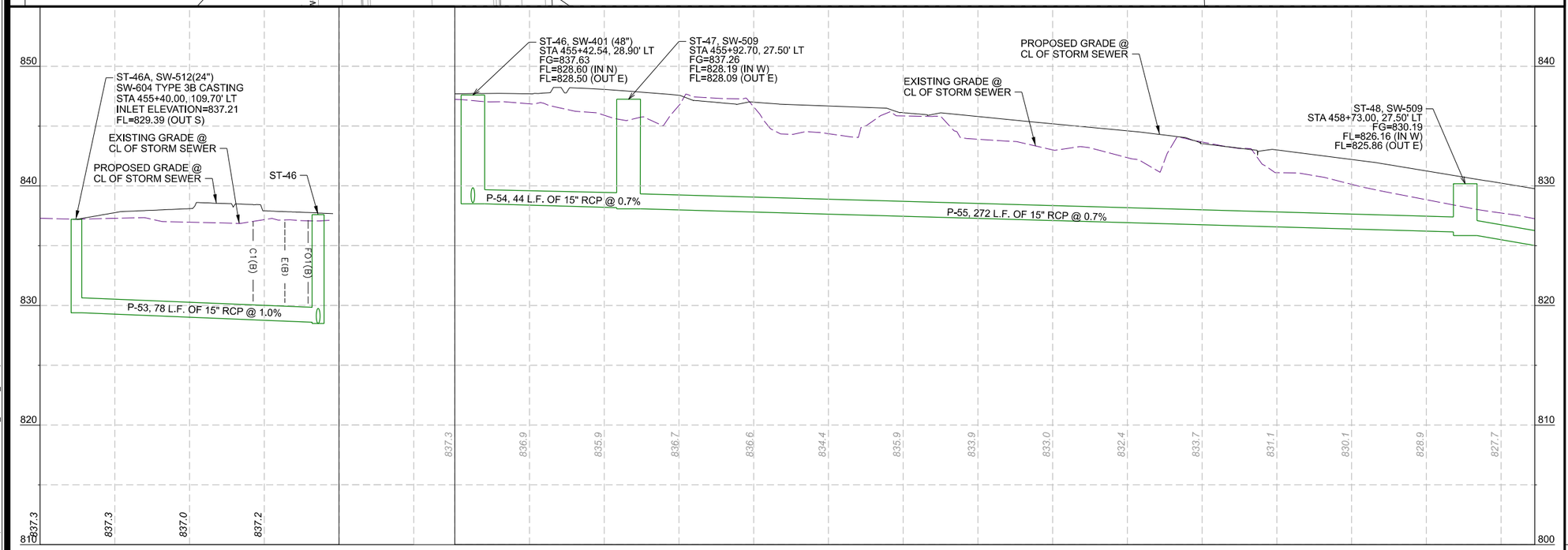


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PROPOSED PAVEMENT IMPROVEMENTS

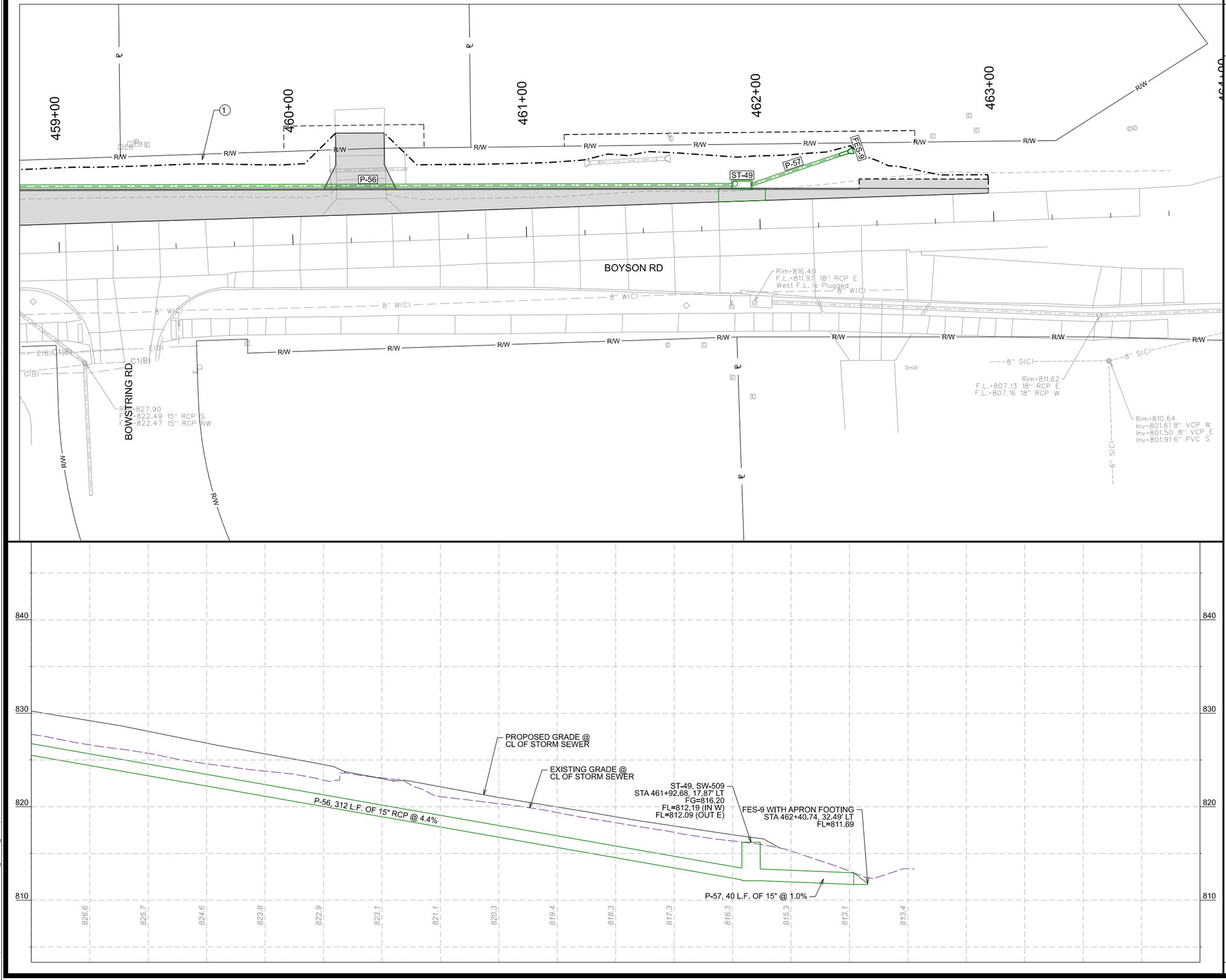
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1. GRADING LIMITS



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DOT PROJECT NUMBER: HDP-4775(646)--71-57					



LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS

0 20 40
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.: Pg:
Technician: KMM Date: 5/8/2026

Project No: 116.0663

Sheet M.20

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - STORM

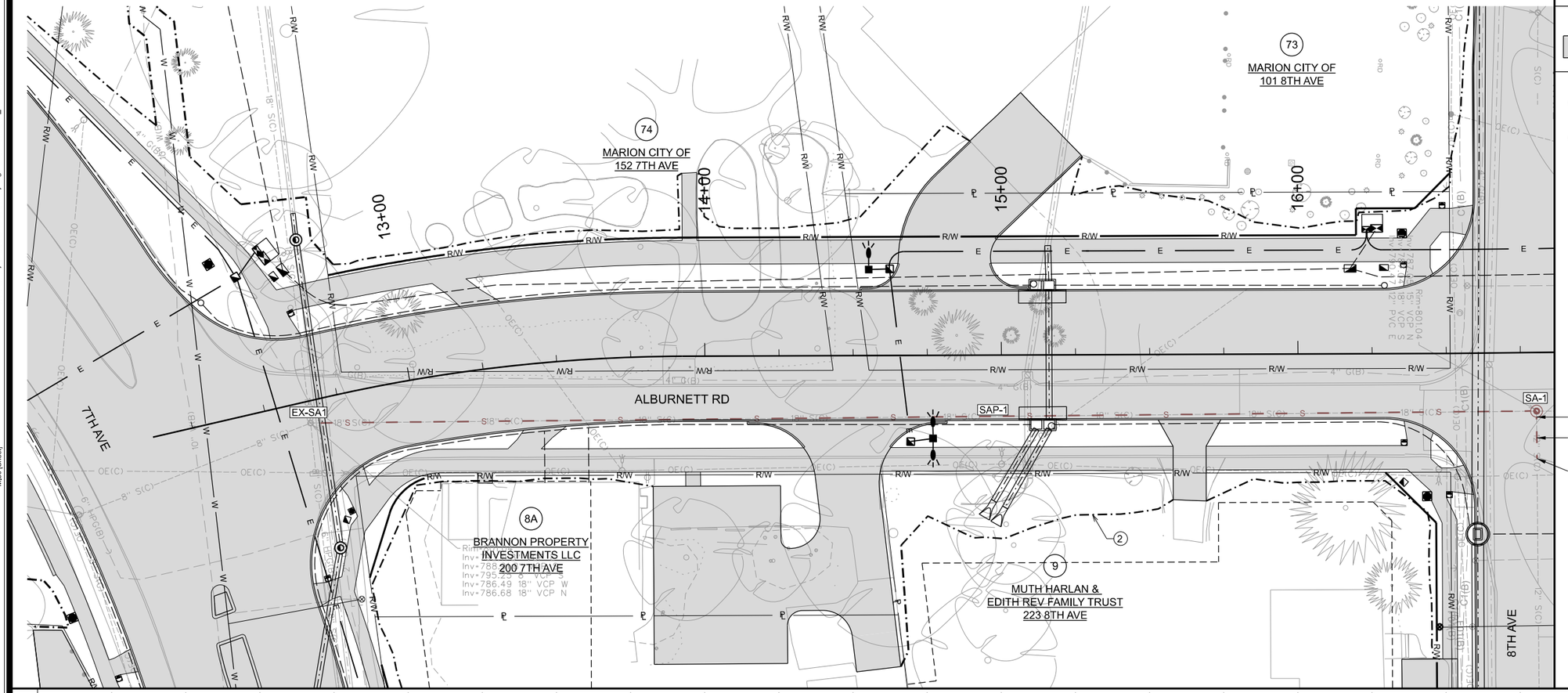
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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
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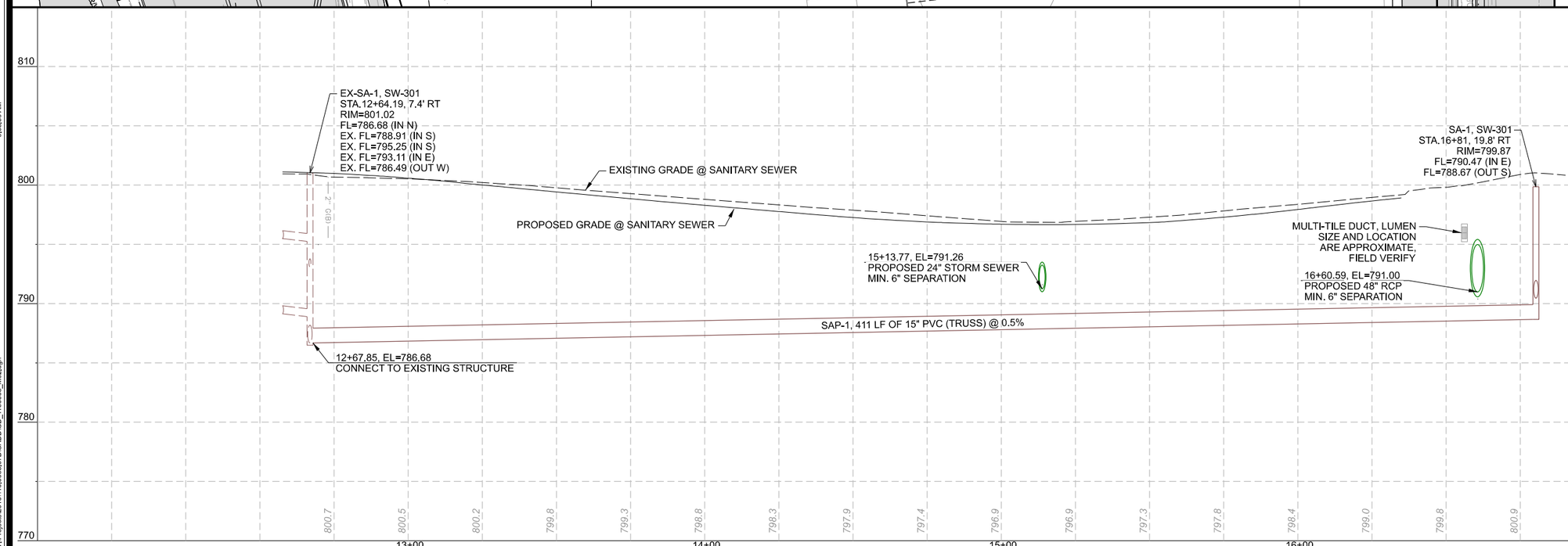
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Project No: 116.0663

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet M.30

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - SANITARY

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Project No: 116.0663

Sheet M.30

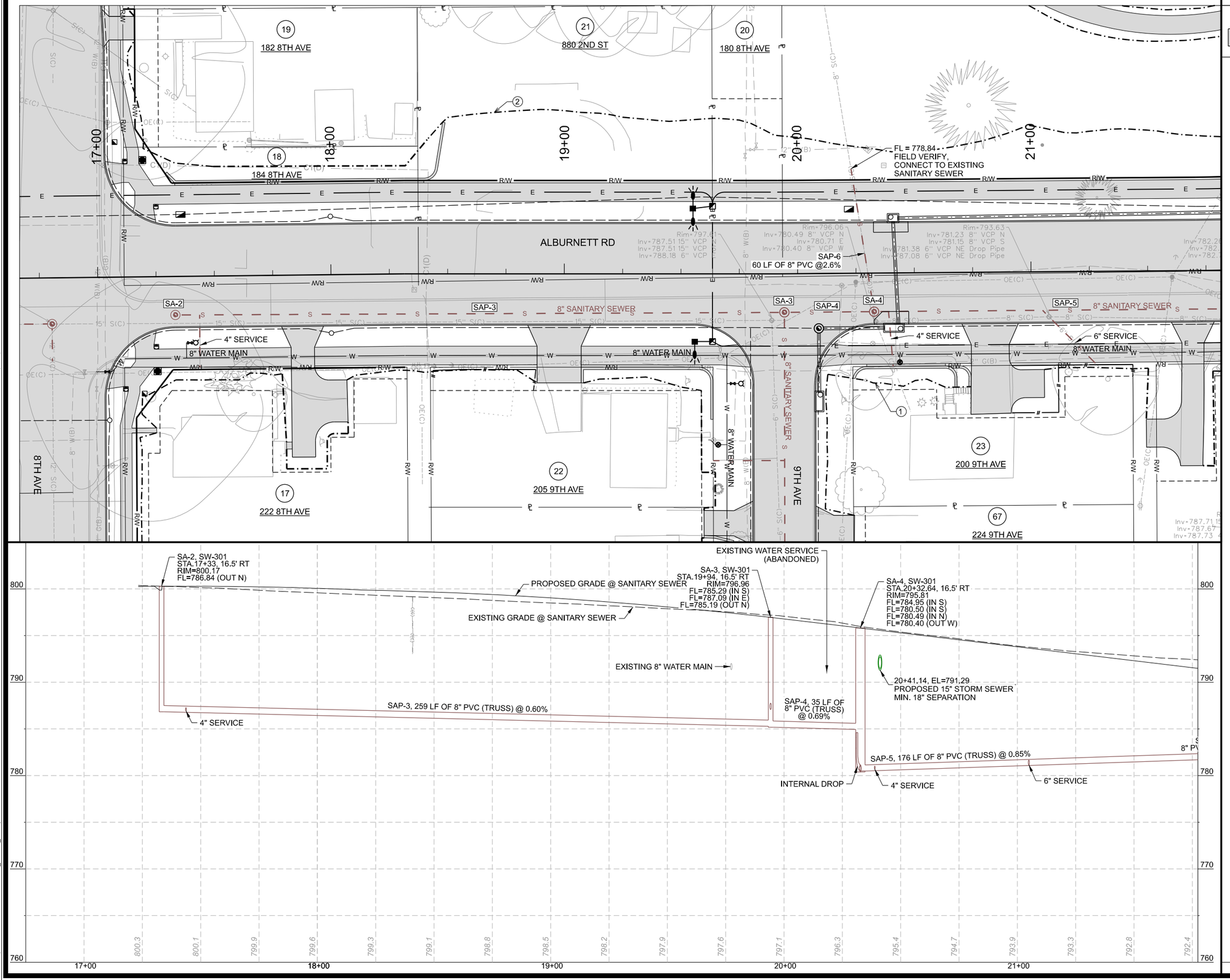
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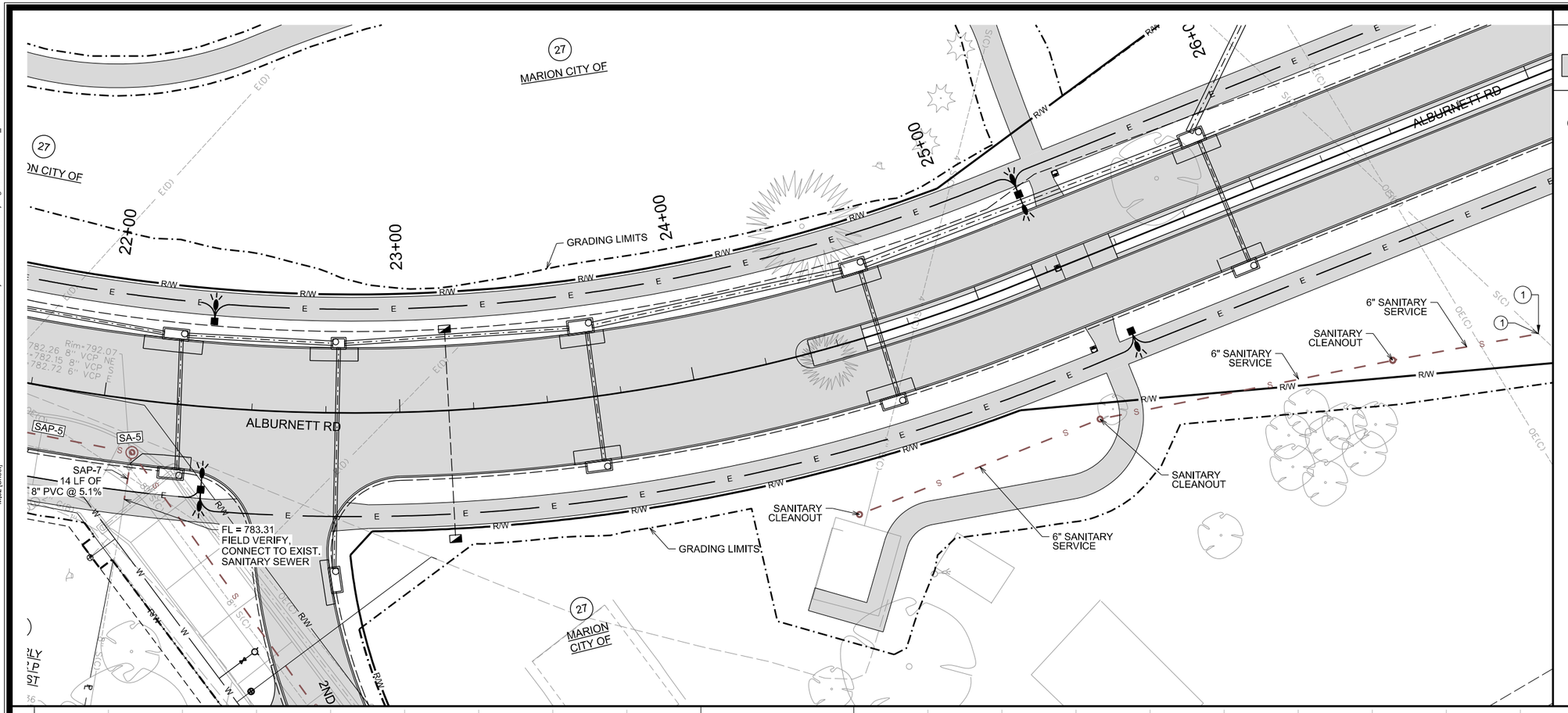
PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. GRADING LIMITS
2. FIELD VERIFY LOCATIONS OF ALL SANITARY SERVICES SHOWN.

DOT PROJECT NUMBER: HDP-4775(646)--71-57					

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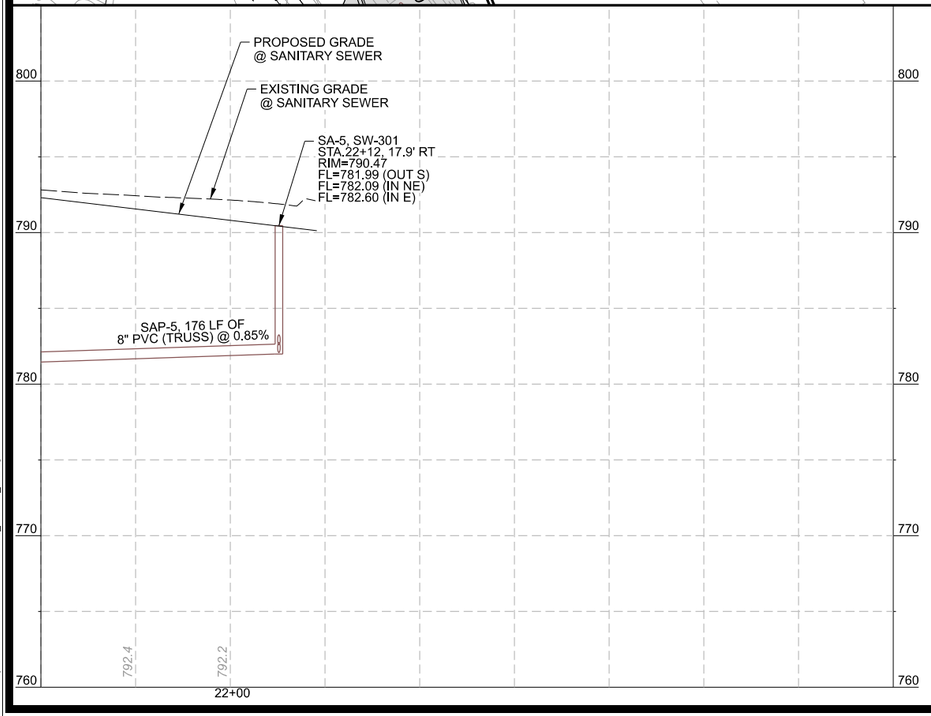
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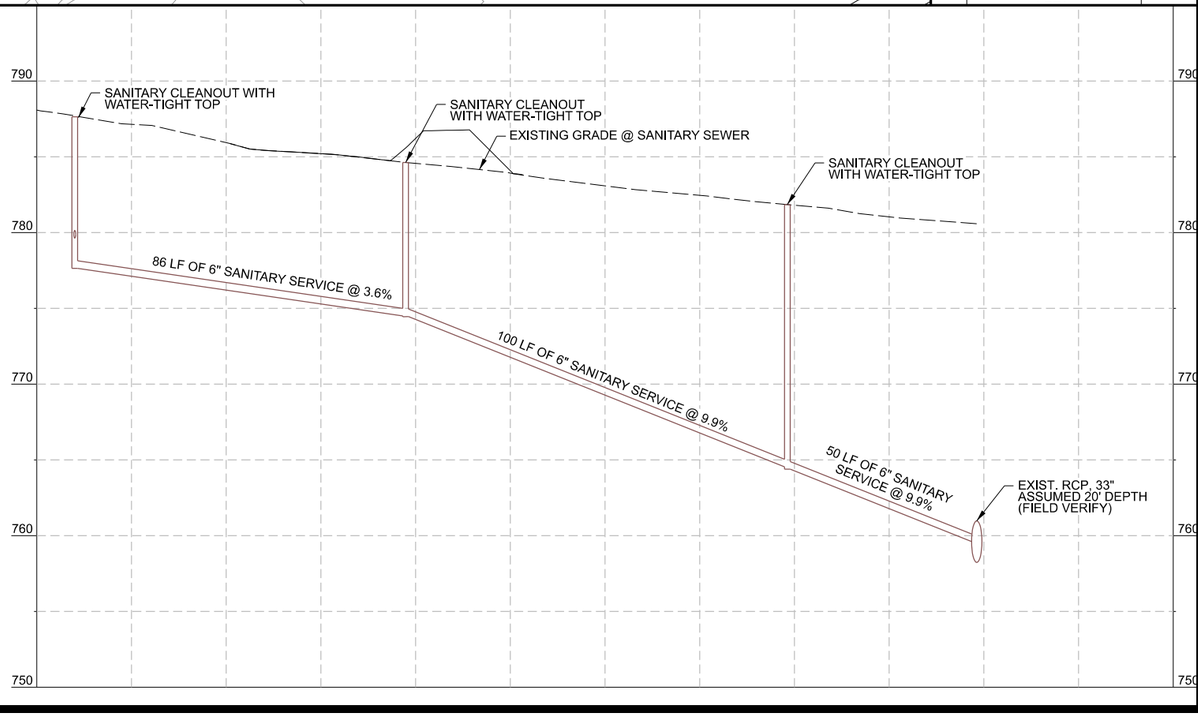
PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. CONNECT TO EXISTING 33" RCP SANITARY SEWER

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS	5/13/2026	BY
MARK:	REVISION	DATE	
Engineer: MGB	Checked By: DMS		Field Bk.: Pg:
Technician: KMM	Date: 5/8/2026		

Project No: 116.0663

Sheet M.32

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - SANITARY

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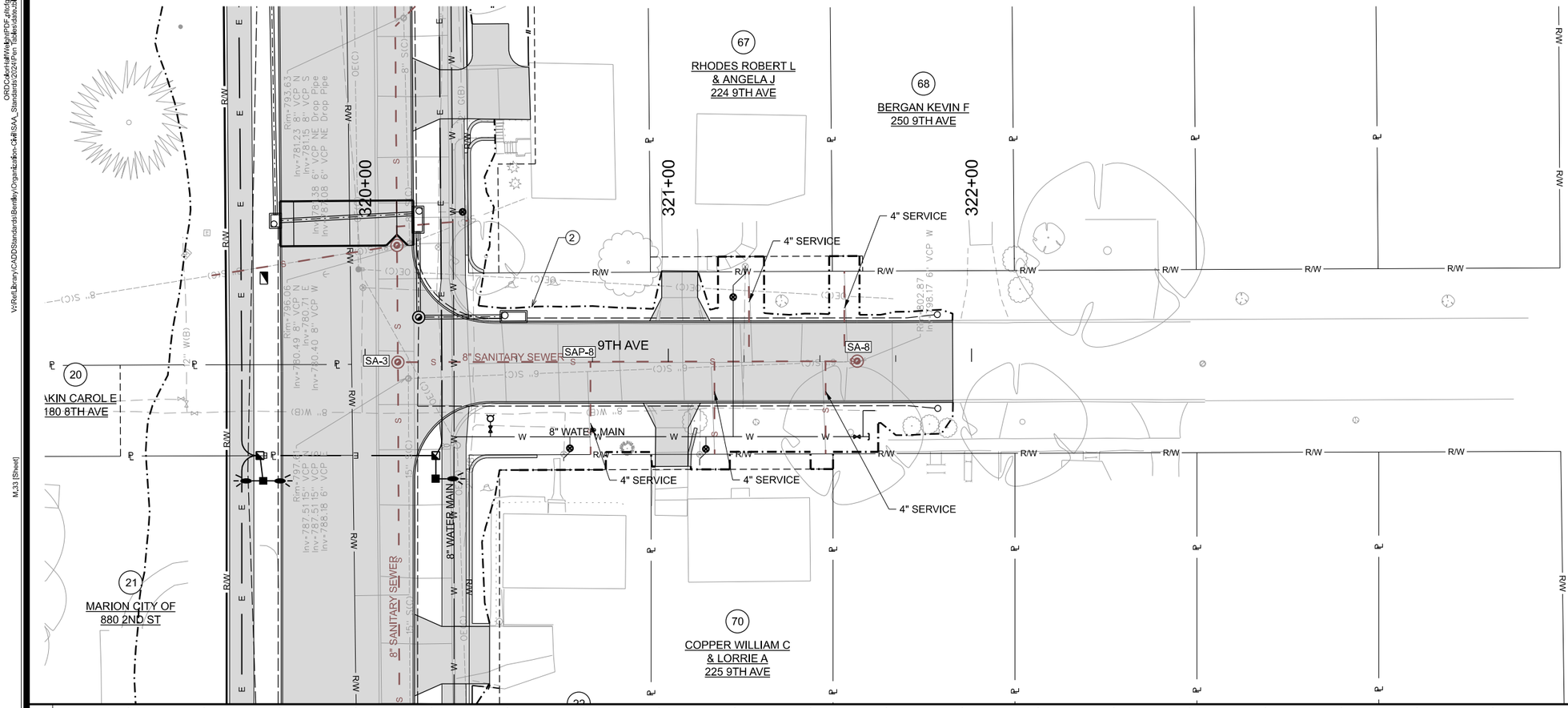
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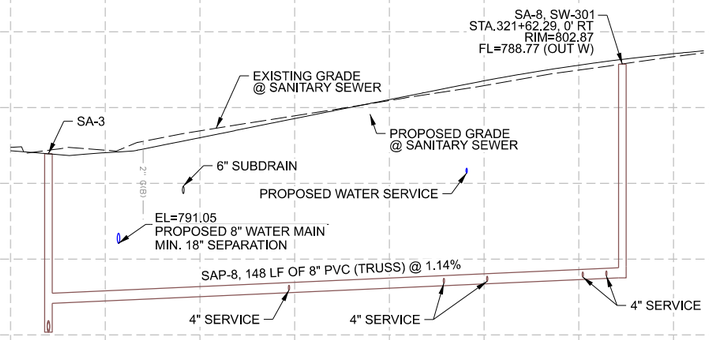
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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. FIELD VERIFY ALL LOCATION OF ALL SANITARY SERVICES SHOWN.
2. GRADING LIMITS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57					
		FINAL PLANS	5/13/2026	BY	
MARK:		REVISION	DATE		
Engineer:	MGB	Checked By:	DMS	Field Bk:	
Technician:	KMM	Date:	5/8/2026	Pg:	
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CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - SANITARY

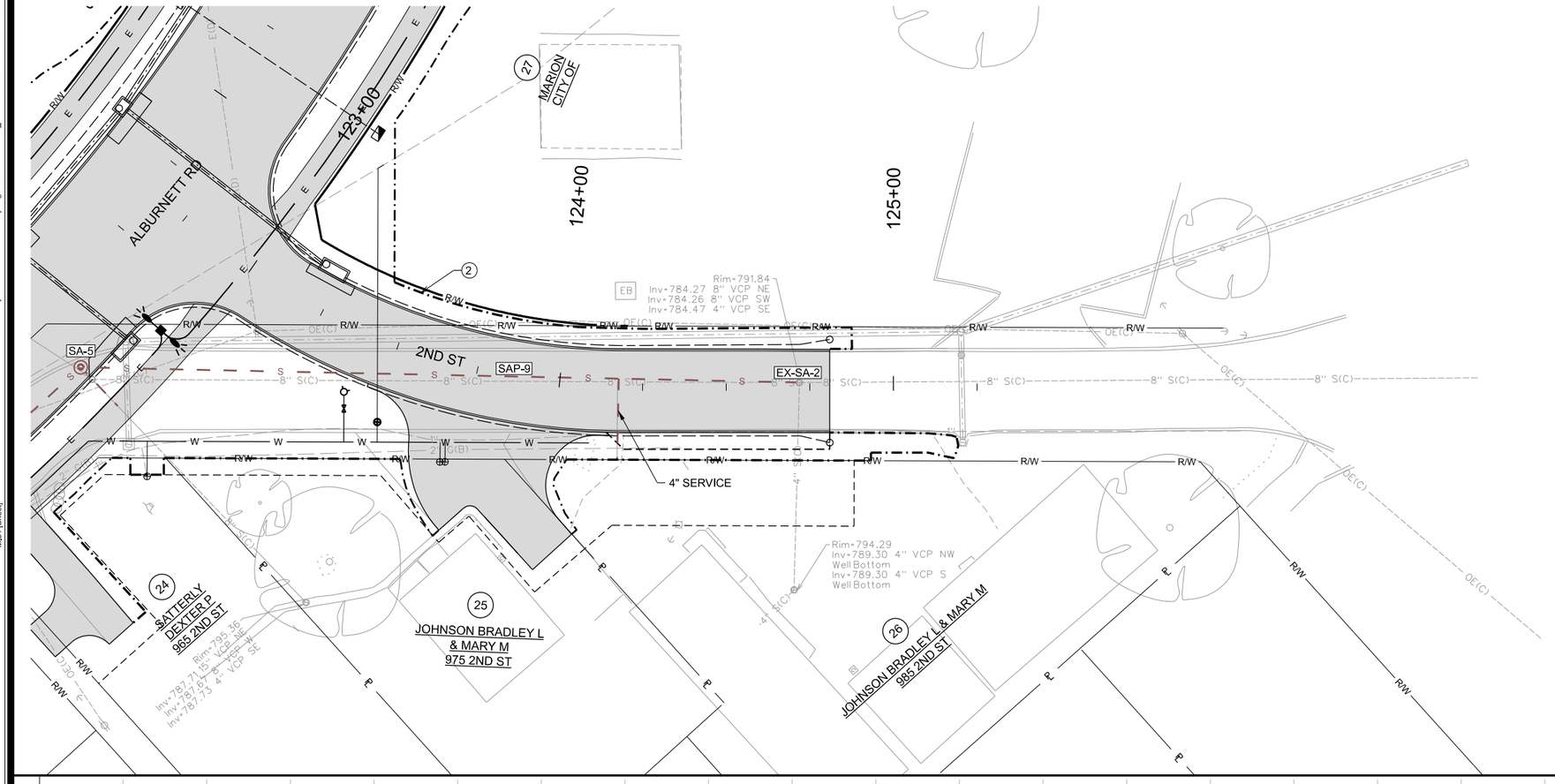
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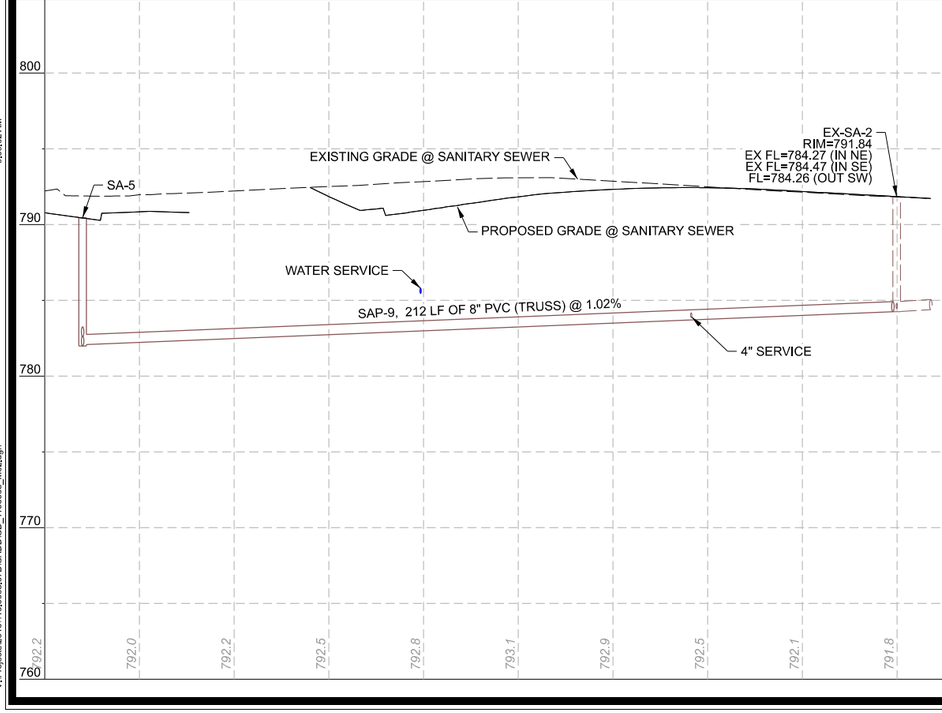


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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. FIELD VERIFY ALL LOCATION OF ALL SANITARY SERVICES SHOWN.
2. GRADING LIMITS



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
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Engineer: MGB Checked By: DMS Field Bk:

Technician: KMM Date: 5/8/2026 Pg:

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CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - SANITARY

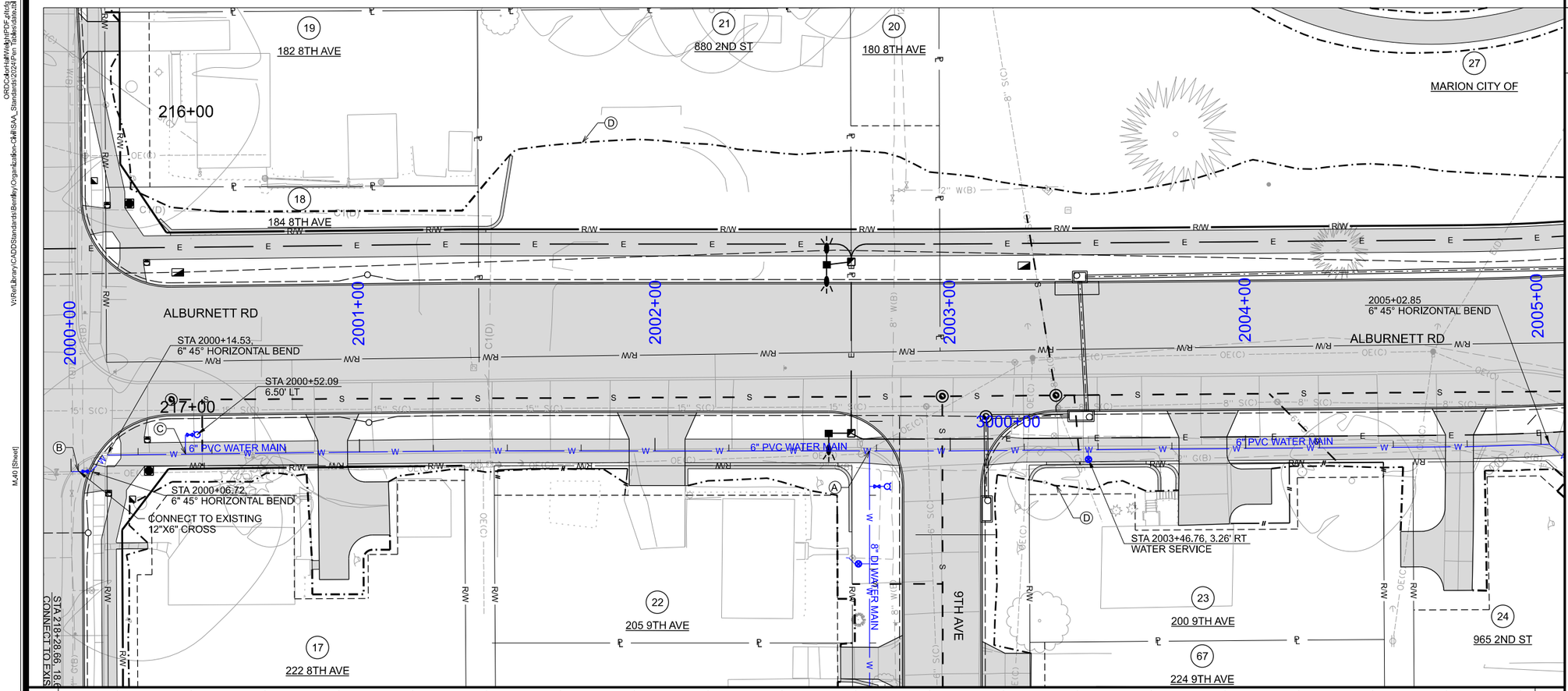
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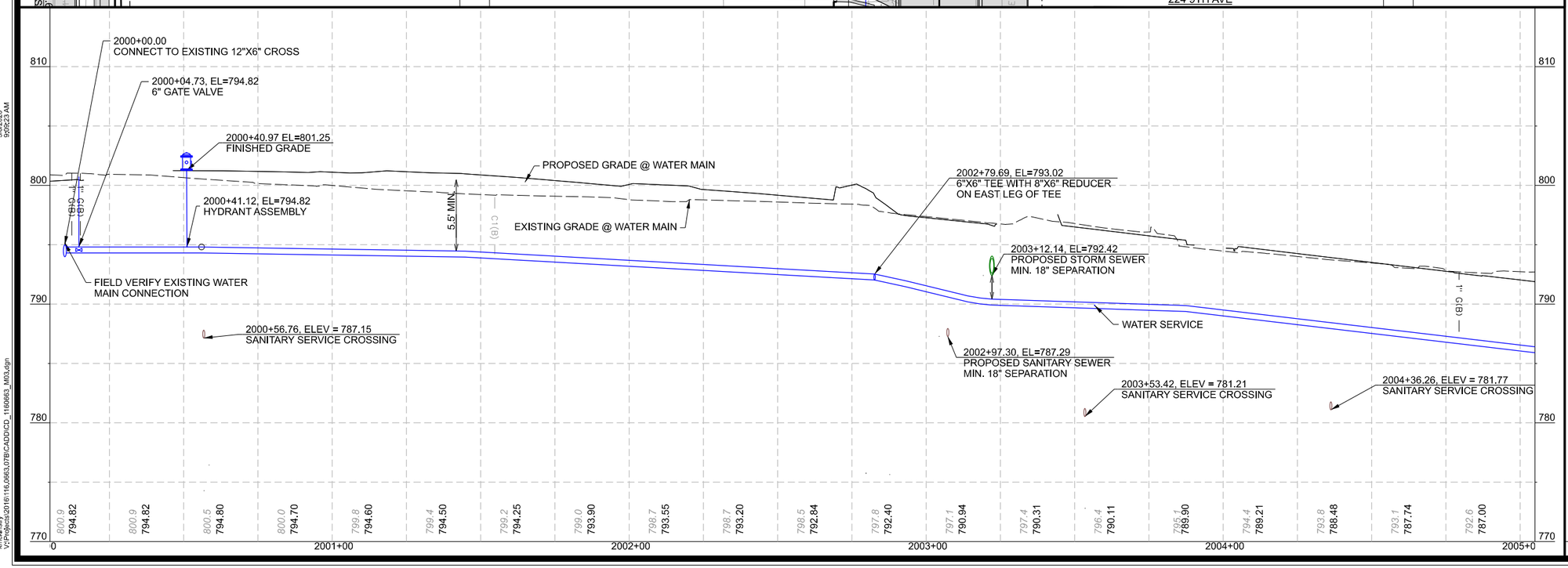
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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

(A) 6"X6" TEE WITH 8"X6" REDUCER ON EAST LEG OF TEE
(B) 6" GATE VALVE
(C) HYDRANT ASSEMBLY
(D) GRADING LIMITS

1. COMMUNICATION, OVERHEAD ELECTRIC LINES, AND OTHER UTILITY SERVICE LINES CROSS PROPOSED INFRASTRUCTURE (ELEVATIONS UNKNOWN AND CROSSINGS NOT SHOWN ON THE PROFILE.)
2. HYDRANT LOCATIONS SHOWN IN PROFILE VIEWS INDICATE LOCATION OF TEE.
3. PROPOSED PROFILE STRIP GRADE ELEVATIONS ARE TOP OF WATER MAIN.
4. EXISTING PROFILE STRIP GRADE ELEVATIONS ARE EXISTING GROUND AT CENTERLINE OF WATER MAIN.

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

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CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - WATER

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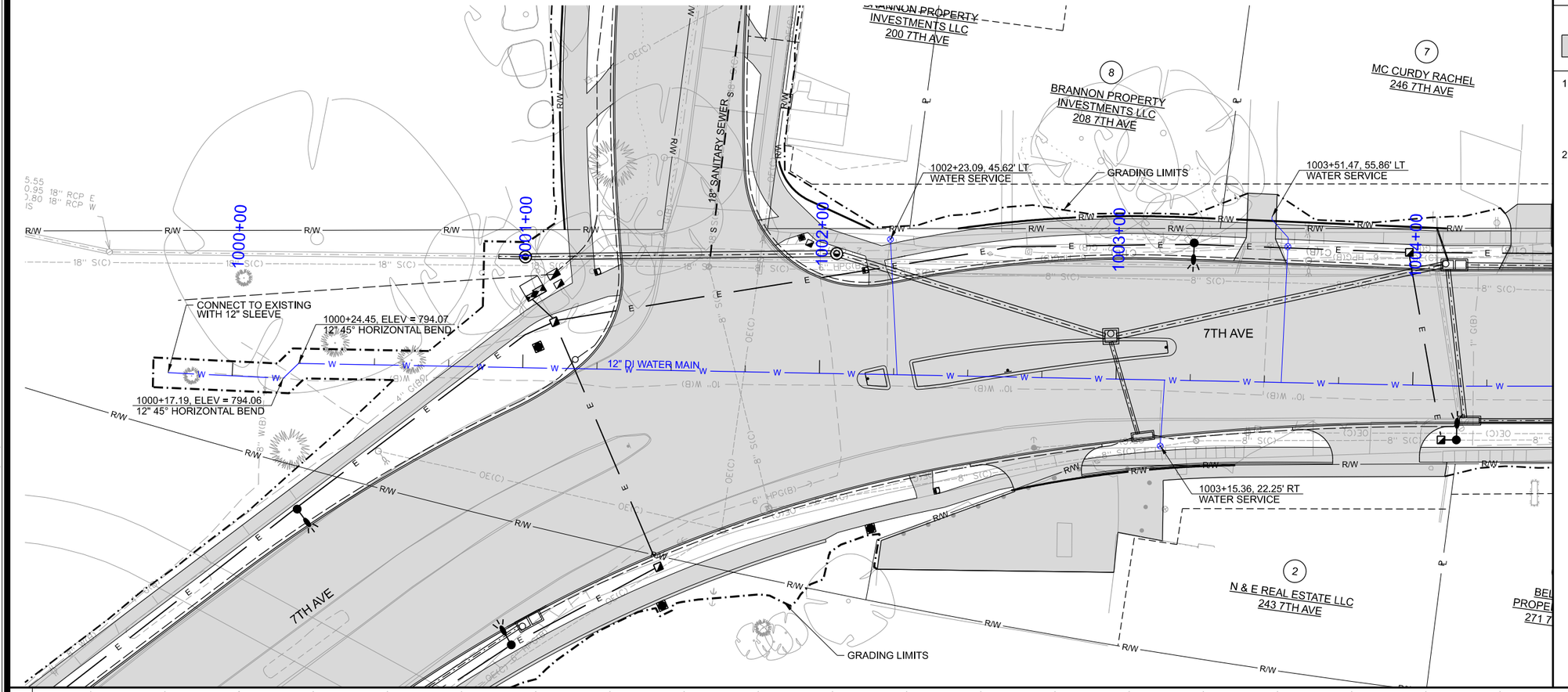
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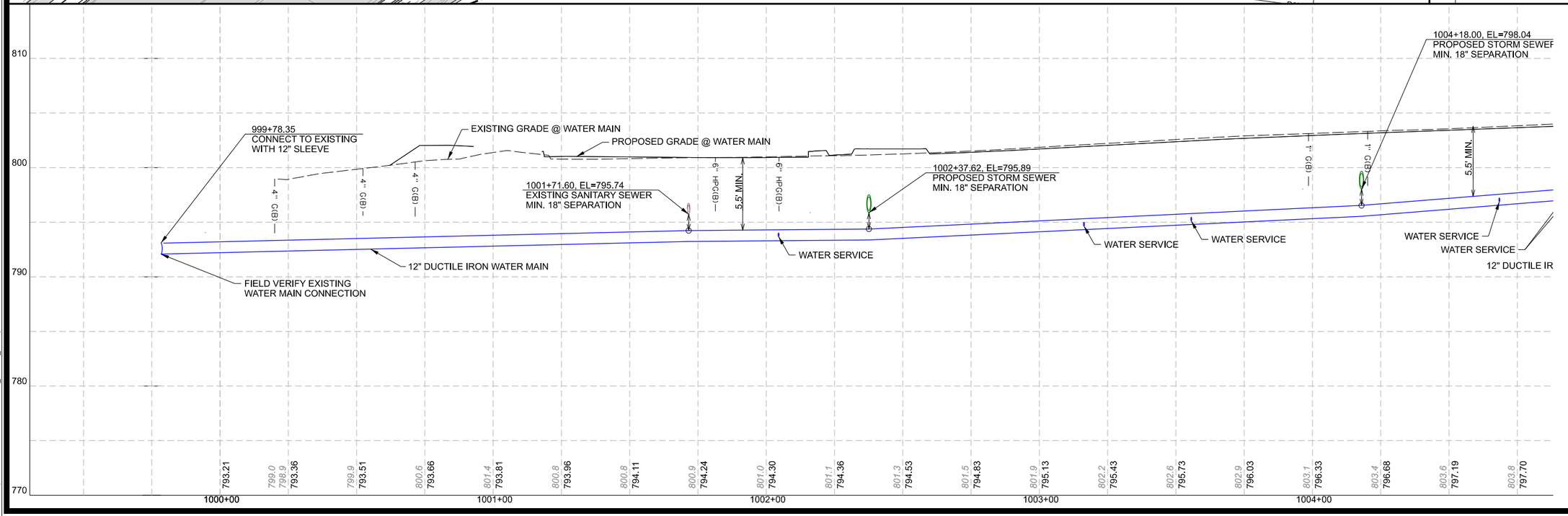
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PROPOSED PAVEMENT IMPROVEMENTS

1. COMMUNICATION, OVERHEAD ELECTRIC LINES, AND OTHER UTILITY SERVICE LINES CROSS PROPOSED INFRASTRUCTURE (ELEVATIONS UNKNOWN AND CROSSINGS NOT SHOWN ON THE PROFILE.)
2. HYDRANT LOCATIONS SHOWN IN PROFILE VIEWS INDICATE LOCATION OF TEE.



DOT PROJECT NUMBER: HDP-4775(646)--71-57				
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		FINAL PLANS	DATE	
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Technician: KMM	Date: 5/8/2026			Sheet M.41
Project No: 116.0663				

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - WATER

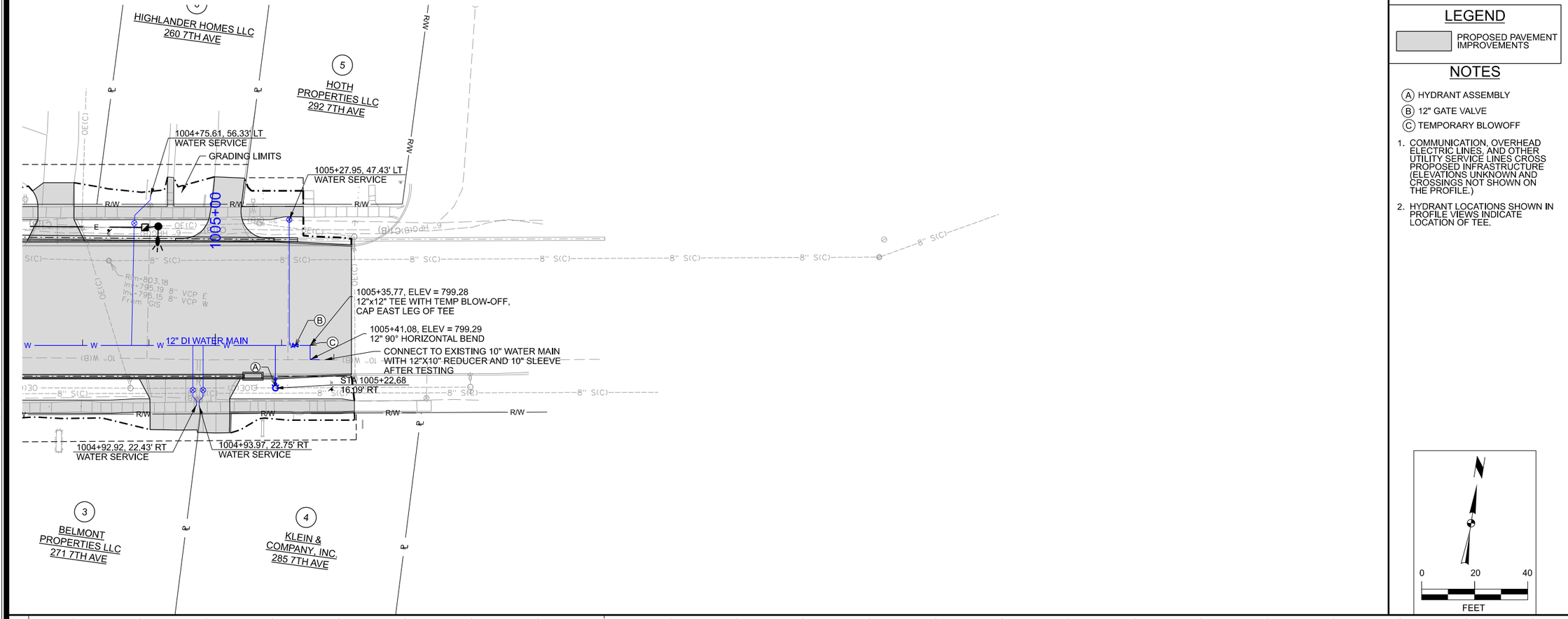
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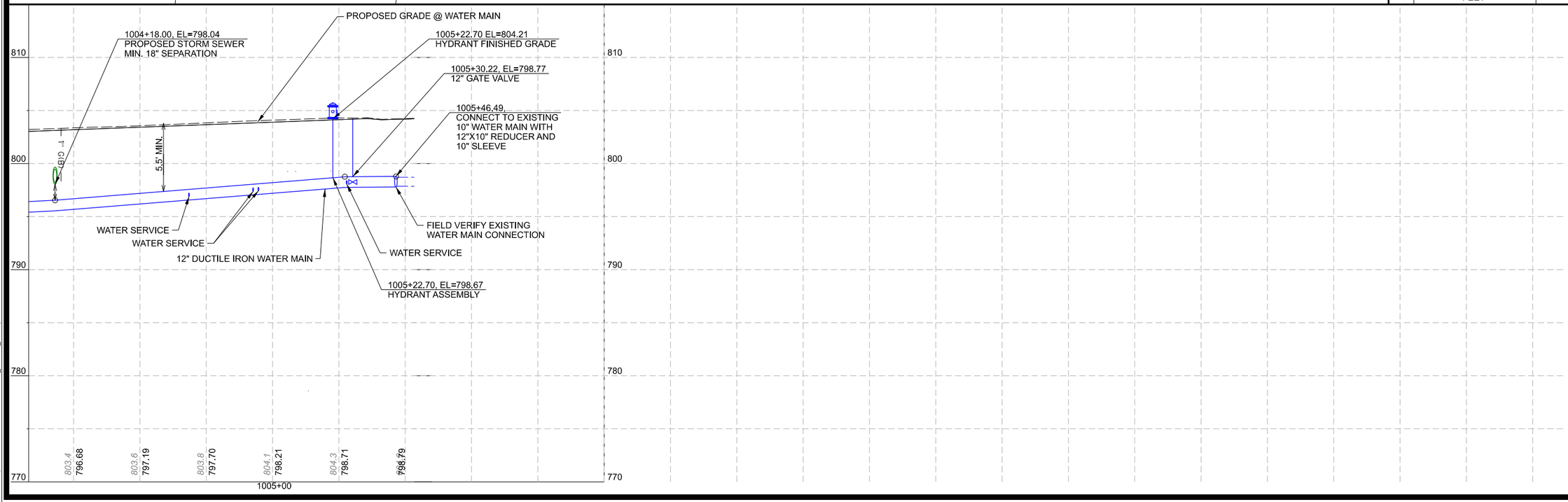
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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

- (A) HYDRANT ASSEMBLY
- (B) 12" GATE VALVE
- (C) TEMPORARY BLOWOFF

1. COMMUNICATION, OVERHEAD ELECTRIC LINES, AND OTHER UTILITY SERVICE LINES CROSS PROPOSED INFRASTRUCTURE (ELEVATIONS UNKNOWN AND CROSSINGS NOT SHOWN ON THE PROFILE.)
2. HYDRANT LOCATIONS SHOWN IN PROFILE VIEWS INDICATE LOCATION OF TEE.



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:

Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663 Sheet M.42

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - WATER

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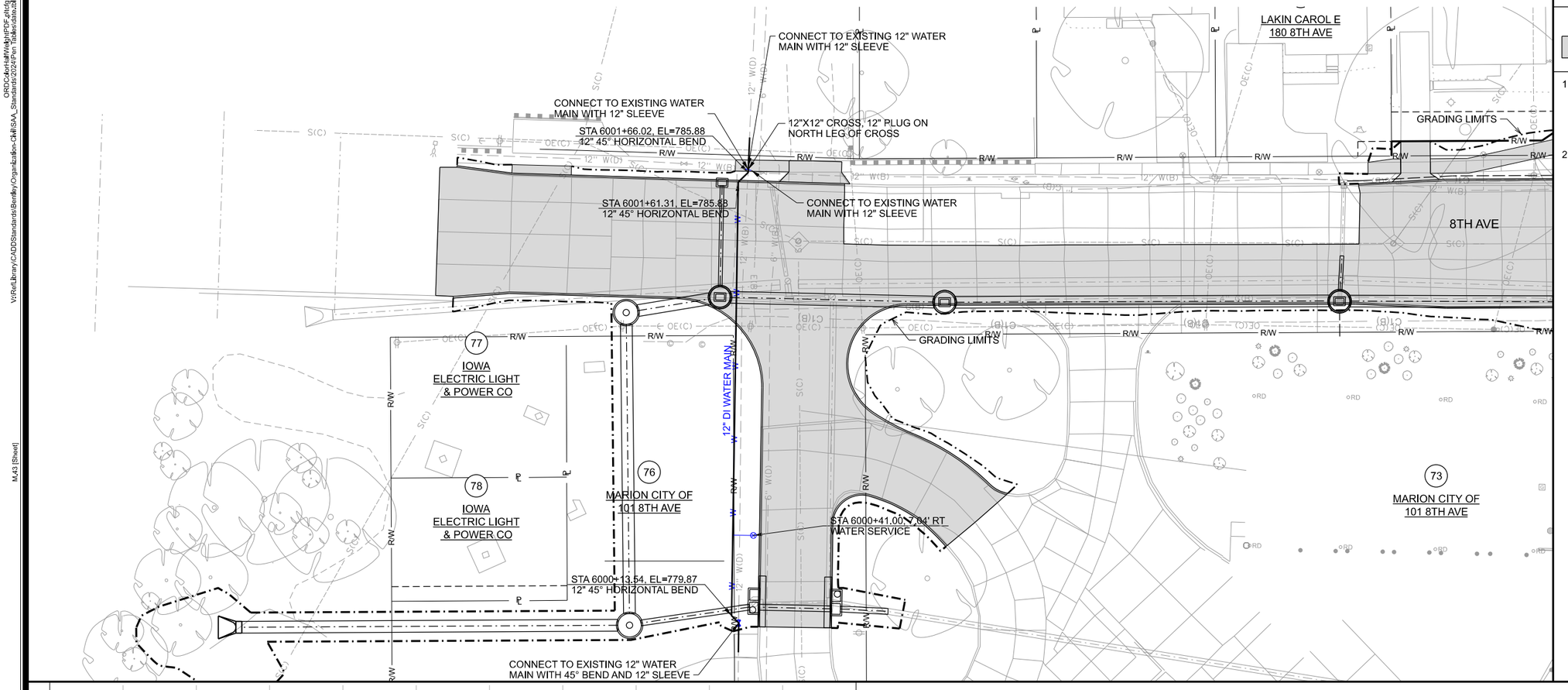
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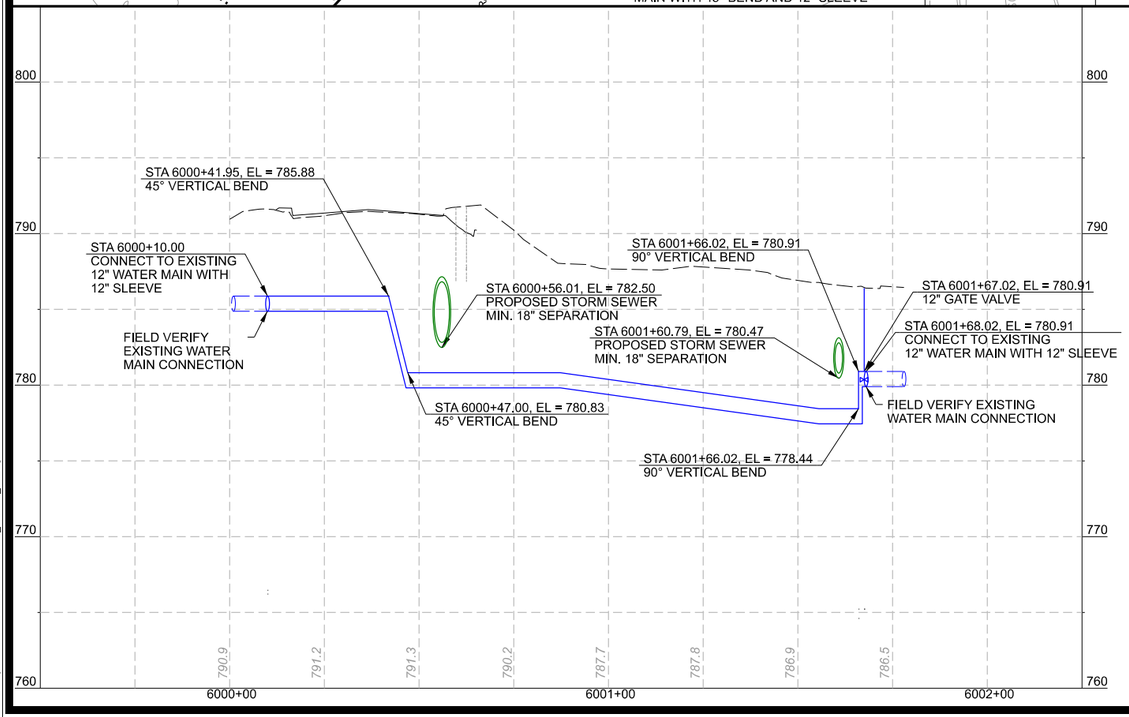
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PROPOSED PAVEMENT IMPROVEMENTS

1. COMMUNICATION, OVERHEAD ELECTRIC LINES, AND OTHER UTILITY SERVICE LINES CROSS PROPOSED INFRASTRUCTURE (ELEVATIONS UNKNOWN AND CROSSINGS NOT SHOWN ON THE PROFILE.)
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk.: | Pg:
Technician: KMM | Date: 5/8/2026 | Project No: 116.0663 | Sheet M.43

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

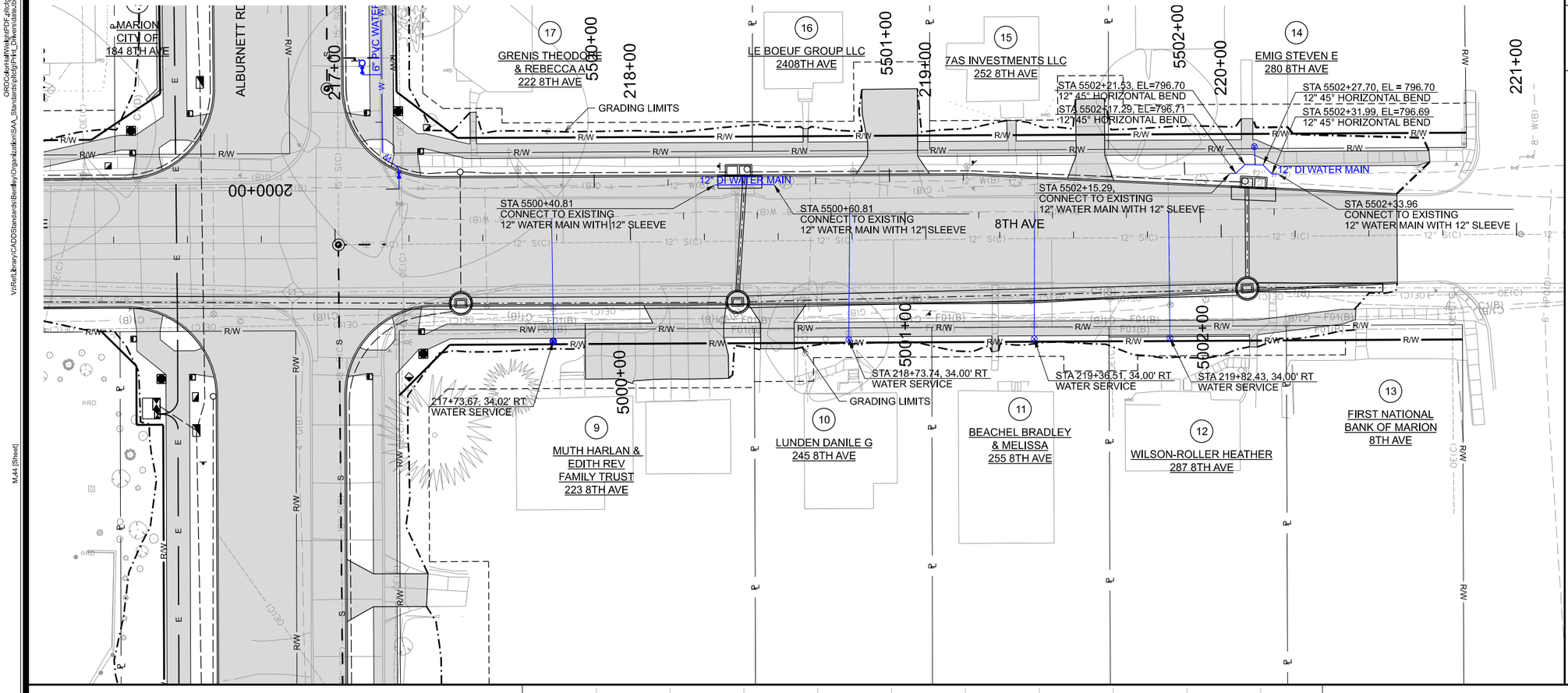
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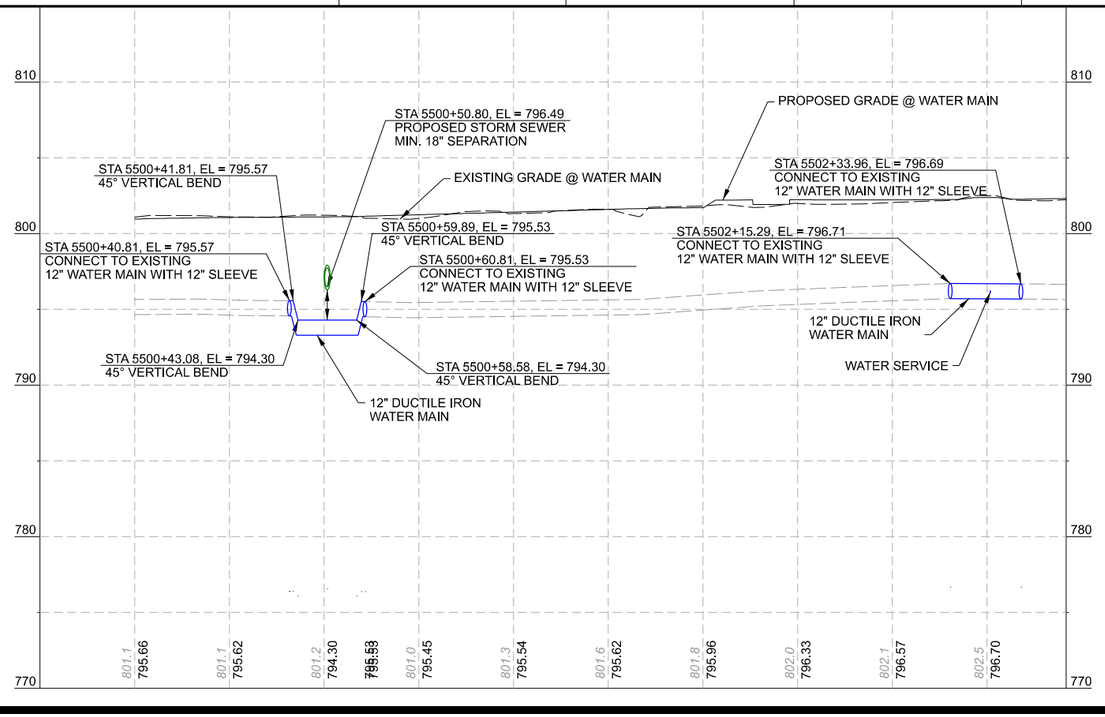
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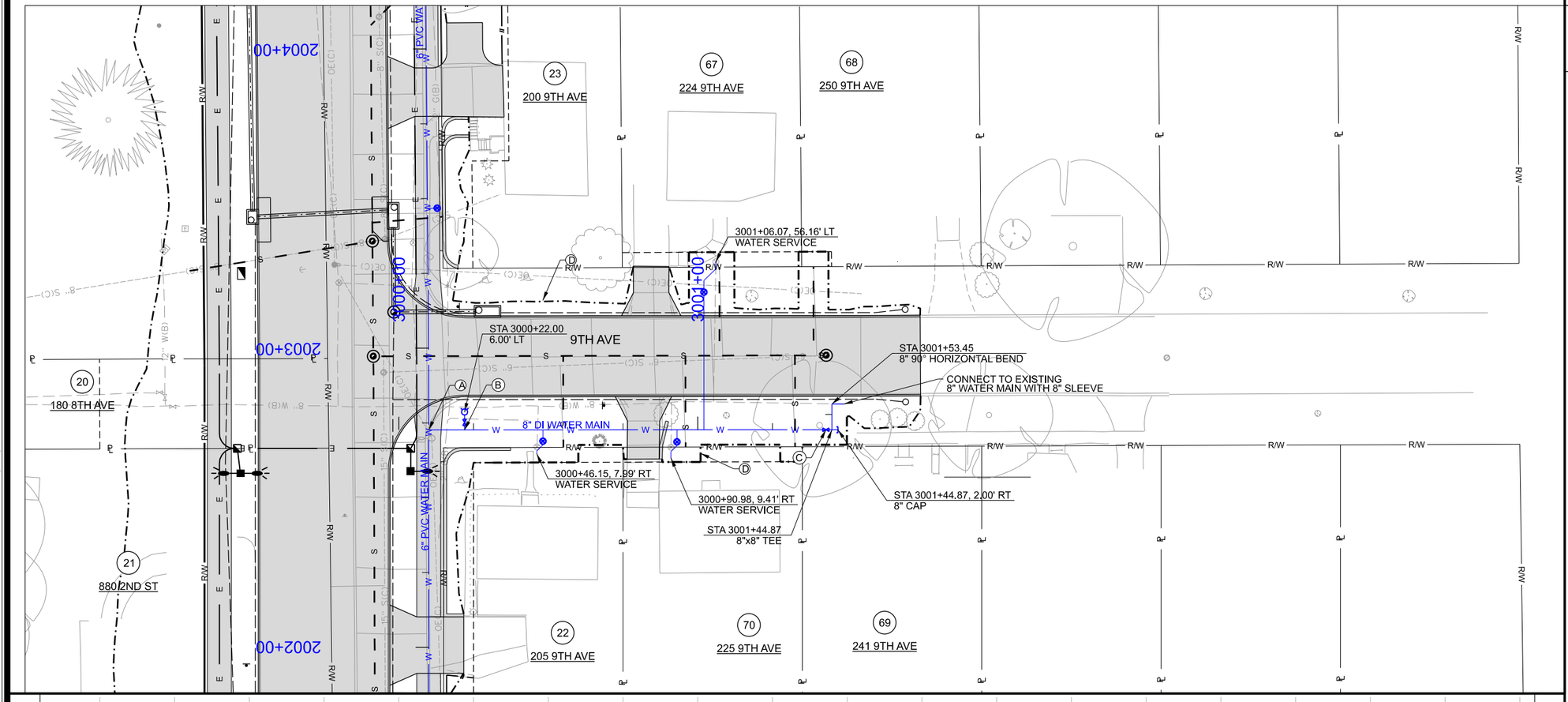
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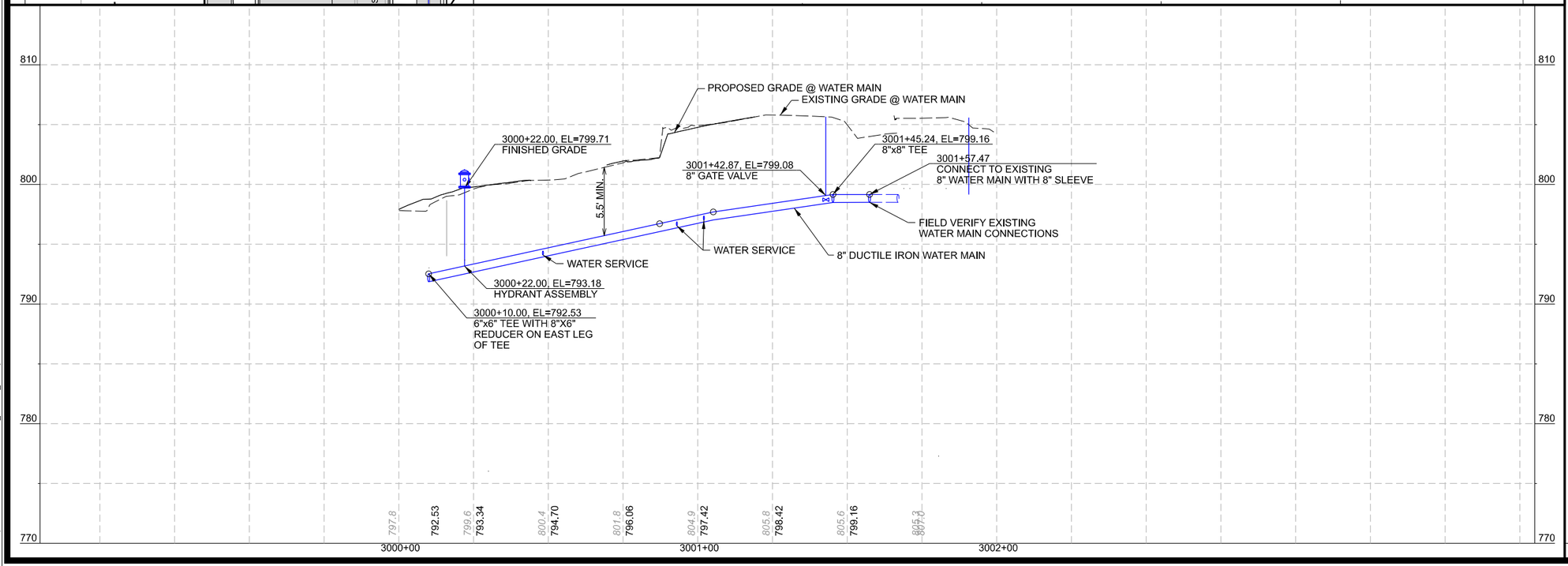
PROPOSED PAVEMENT IMPROVEMENTS

1. COMMUNICATION, OVERHEAD ELECTRIC LINES, AND OTHER UTILITY SERVICE LINES CROSS PROPOSED INFRASTRUCTURE (ELEVATIONS UNKNOWN AND CROSSINGS NOT SHOWN ON THE PROFILE.)
2. HYDRANT LOCATIONS SHOWN IN PROFILE VIEWS INDICATE LOCATION OF TEE.



DOT PROJECT NUMBER: HDP-4775(646)--71-57						





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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

- (A) 6"X6" TEE WITH 8"X6" REDUCER ON EAST LEG OF TEE
- (B) HYDRANT ASSEMBLY
- (C) 8" GATE VALVE
- (D) GRADING LIMITS

1. COMMUNICATION, OVERHEAD ELECTRIC LINES, AND OTHER UTILITY SERVICE LINES CROSS PROPOSED INFRASTRUCTURE (ELEVATIONS UNKNOWN AND CROSSINGS NOT SHOWN ON THE PROFILE.)
2. HYDRANT LOCATIONS SHOWN IN PROFILE VIEWS INDICATE LOCATION OF TEE.

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

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	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.: Pg:
Technician: KMM Date: 5/8/2026

Project No: 116.0663

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CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - WATER

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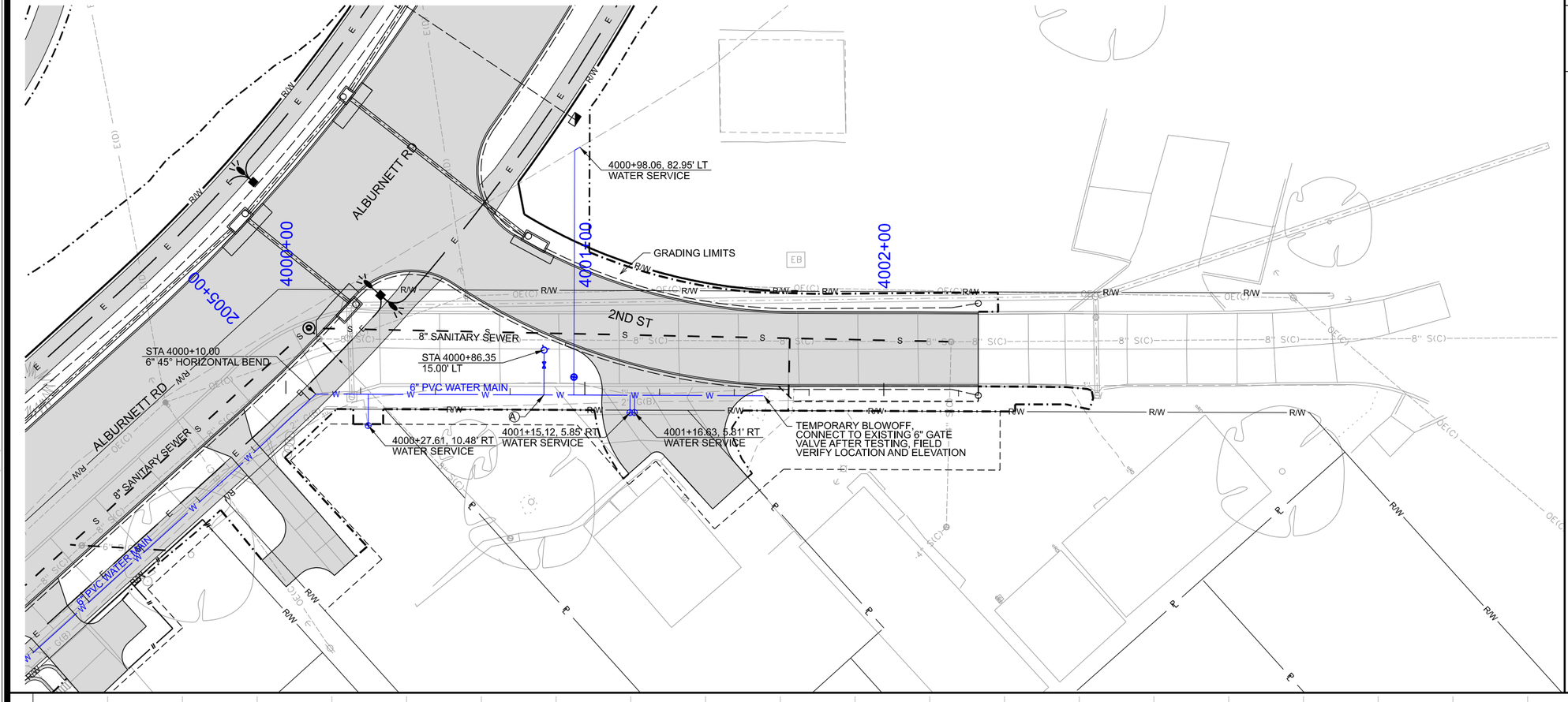
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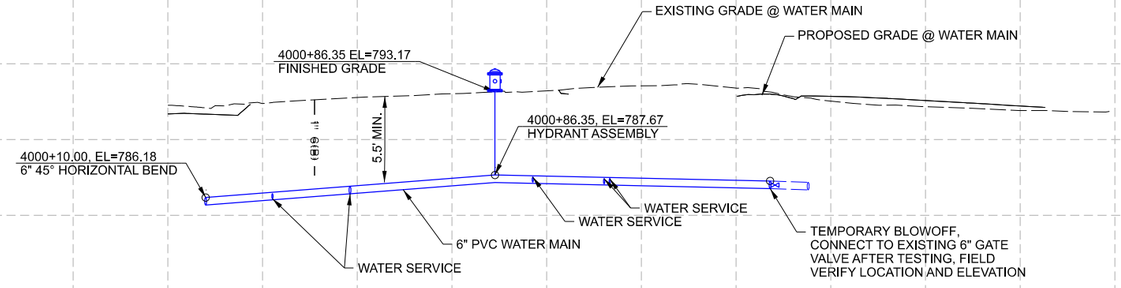
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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

(A) HYDRANT ASSEMBLY

1. COMMUNICATION, OVERHEAD ELECTRIC LINES, AND OTHER UTILITY SERVICE LINES CROSS PROPOSED INFRASTRUCTURE (ELEVATIONS UNKNOWN AND CROSSINGS NOT SHOWN ON THE PROFILE.)
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Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

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CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

BURIED PIPE SHEETS - WATER

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GENERAL NOTES:

1. THE PLAN LOCATIONS OF UNDERGROUND UTILTIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, INCLUDING CITY OWNED UTILITIES, PRIOR TO EXCAVATION ON THE PROJECT AND PRIOR TO ORDERING POLES FOR THE PURPOSE OF VERIFYING MAST ARM LENGTHS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL LOCATION AND ELEVATION.

2. ALL QUANTITIES SHOWN IN THE PLANS ARE FOR INFORMATIONAL AND ESTIMATING PURPOSES ONLY. THE CONTRACTOR'S LUMP SUM BID FOR THIS PROJECT SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND FUNCTIONAL TRAFFIC SIGNAL INSTALLATIONS IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.

3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING POWER SERVICE AND POWER METER LOCATION WITH POWER SERVICE PROVIDER PRIOR TO CONDUIT/CIRCUIT INSTALLATION.

4. AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

5. TRAFFIC SIGNALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT SUDAS STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY THE PLANS.

6. SIGNAL CABINET SHALL BE NEMA TS2-1 PER CURRENT ITE STANDARDS.

7. THE LOCATIONS OF ALL FOOTINGS, HANDHOLES, AND CONDUIT ARE TO BE COORDINATED WITH THE ENGINEER AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD BY THE ENGINEER. HANDHOLES SHALL NOT BE PLACED IN DITCH BOTTOMS.

8. CONTRACTOR SHALL FURNISH A SCHEDULE OF UNIT PRICES FOR ESTIMATED TRAFFIC SIGNAL QUANTITIES. PAYMENT WILL BE BASED ON PLAN QUANTITIES. QUANTITIES WILL NOT BE FIELD MEASURED.

9. ALL SIGNAL HEADS SHALL BE BLACK. ALL SIGNAL INDICATIONS SHALL BE LED IN ACCORDANCE WITH CURRENT ITE SPECIFICATIONS. PROVIDE BACKPLATES WITH RETROREFLECTIVE BORDERS FOR ALL SIGNAL HEADS.

10. FOR STREET LIGHTING POWER FEEDS, THE CONTRACTOR SHALL INSTALL FLOOD-SEAL IN-LINE AND WYE FUSED AND NON-FUSED KITS.

11. TRAFFIC SIGNAL POLE AND MAST ARM FINISH SHALL BE BLACK COLOR. FINISH MAY BE POWDER COAT OR ELECTROLYTICALLY APPLIED LIQUID FINISH SYSTEM. PROVIDE TRANSFORMER BASES FOR ALL POLES.

12. THE STATIONS AND OFFSETS LISTED ON THE SIGNAL PLANS ARE TO THE CENTER OF THE ITEM, UNLESS OTHERWISE NOTED.

13. A #6 A.W.G. BARE COPPER GROUND WIRE SHALL BE INSTALLED IN ALL CONDUITS THAT CARRY 120 VOLT SIGNAL CABLES. ALL POLES, PEDESTALS, AND THE CONTROLLER CABINET SHALL BE BONDED TO FORM A CONTINUOUS SYSTEM AND BE EFFECTIVELY GROUNDED. BONDING JUMPERS SHALL BE #6 A.W.G. BARE COPPER WIRE CONNECTED BY APPROVED CLAMPS.

14. TRAFFIC SIGNAL CABINETS AND CONTROLLERS SHALL BE NETWORK READY FOR FIBER OPTIC INTERCONNECTION. FIBER OPTIC CABLE, SPLICING, TERMINATIONS AND PANELS WILL BE FURNISHED AND INSTALLED BY THE CITY. CONTRACTOR SHALL PROVIDE COORDINATED OPERATION OF ALBURNETT RD SIGNALS AT 7TH AVE AND 8TH AVE WITH CITY-FURNISHED TIMING PLANS AT SIGNAL TURN-ON.

15. CONTRACTOR SHALL INSTALL ONE SIGNAL CABLE FROM EACH SIGNAL HEAD TO SIGNAL POLE BASE. A 5-CONDUCTOR CABLE SHALL BE USED FOR 3-SECTION HEADS AND PEDSTRIAN HEADS. A 7-CONDUCTOR SHALL BE USED FOR 4 OR 5-SECTION HEADS.

16. CONTRACTOR MAY SUBSTITUTE HDPE INNERDUCT CONDUIT FOR PVC ON LONG, STRAIGHT, CONTINUOUS CONDUIT RUNS TO BE INSTALLED WITH DIRECTIONAL BORING EQUIPMENT. LOCATION TO BE APPROVED BY THE ENGINEER. ALL PVC CONDUIT SHALL BE SCHEDULE 80 OR DIRECTIONAL BORED HDPE CONDUIT.

17. CONDUIT UNDER PAVEMENT SHALL BE BORED. PAVEMENT SHALL NOT BE DISTURBED BY CONSTRUCTION.

18. CONTRACTOR TO CONFIRM EXISTING OVERHEAD UTILITIES DO NOT INTERFERE WITH VIDEO CAMERA LINE OF VISION.

19. SIGNAL POLE FOUNDATIONS ADJACENT TO PAVED SURFACES SHALL HAVE SQUARE TOPS WITH CHAMFER ON TOP EDGE.

20. STREET LIGHT POLE AT MARION BLVD SHALL BE PER IOWA DOT SPECIFICATIONS, PAINTED BLACK PER SUPPLIER SPECIFICATIONS. LIGHT POLE FOUNDATION SHALL BE PER IOWA DOT STANDARD ROAD PLAN LI-201. REFER TO P-SHEETS FOR LIGHTING EQUIPMENT IN SIGNAL CABINETS AT MARION BLVD AND 8TH AVE.

21. ALL STREETLIGHT LUMINAIRE ARMS AT SIGNALIZED INTERSECTIONS SHALL BE 15' SINGLE TAPERED STYLE ARMS. CONTRACTOR SHALL PROVIDE AND INSTALL LIGHT FIXTURES ON LUMINAIRE ARMS. LUMINAIRE MOUNTING HEIGHTS SHALL BE THE STANDARD MOUNTING HEIGHT OF 40'. LUMINAIRES ON TRAFFIC SIGNALS SHALL BE RFM-160W48LED4K-G2-R3M-UNIV-DMG-RCD-BABAF-BK.

22. MAST ARM MOUNTING HEIGHTS FOR SHALL BE THE STANDARD MOUNTING HEIGHT OF 19.0' AND THE APPROPRIATE MINIMUM CLEARANCE OF 15.0' FROM THE ROADWAY TO THE BOTTOM OF THE SIGNAL HEADS.

23. THE CONTRACTOR SHALL USE CARE WHEN WRAPPING SIGNAL CABLE SLACK ON HANDHOLE HOOKS SO AS TO NOT WRAP THE CABLE SO TIGHTLY THAT CITY PERSONNEL CANNOT REMOVE THE CABLE FROM THE HOOKS WITHOUT UNWRAPPING THE CABLE.

24. SIGNAL WIRING SHALL ONLY BE SPLICED IN POLE BASES OR SIGNAL CABINETS. RUNS FOR VIDEO DETECTION CAMERA CABLE, EMERGENCY VEHICLE PREEMPTION CABLE, AND TRAFFIC MONITORING CABLE SHALL BE CONTINUOUS WITHOUT SPLICES.

25. NOTIFY THE PROJECT ENGINEER 7 DAYS IN ADVANCE OF PLACING THE PROPOSED TRAFFIC SIGNALS INTO OPERATION. CONTRACTOR SHALL FOLLOW THE TRAFFIC SIGNAL TURN ON PROCEDURE AS OUTLINED IN SECTION 4D-4 OF THE IOWA DOT TRAFFIC AND SAFETY MANUAL. CONTRACTOR TO PROVIDE SIGNAGE AS OUTLINED IN SECTION 4D-4.

26. STREET NAME SIGNS WILL BE FURNISHED BY THE CITY. CONTRACTOR SHALL PROVIDE MOUNTING BRACKETS AND INSTALL.

27. TRAFFIC SIGNAL POLES SHALL BE MILLERBERND RB2CT-210-350-MIA, OR APPROVED EQUAL. FINISH SHALL BE HOT DIP GALVANIZED WITH TOP COAT PAINTED BLACK SEMIGLOSS. POST, MAST ARM, AND LUMINAIRE ARM SHALL ALL BE ROUND TAPERED TUB. POSTS SHALL INCLUDE TRANSFORMER BASES. TRAFFIC SIGNAL MAST ARMS SHALL BE CURVED.

28. STREET SIGNS THAT ARE 96" OR LARGER NEED 2 ASTRO BRACKETS

29. AFTER MANUFACTURED, POLES AND MAST ARMS SHALL HAVE A MINIMUM YIELD STRENGTH OF 55,000 PSI.

30. CONTRACTOR SHALL COIL 100' OF FIBER IN EACH PROPOSED FIBER HANDHOLE WITHIN THE PROJECT LIMITS.

ESTIMATE OF TRAFFIC SIGNAL QUANTITIES

ITEM	DESCRIPTION	UNITS	7TH AVE	8TH AVE	BOYSON RD	CENTRAL AVE	TOTAL
CONTROLLER AND CABINET	CONTROLLER, CABINET, 18" RISER, AND ACCESSORIES	LS	1	1	1		3
	CABINET MODIFICATIONS	LS				1	1
	POWER SERVICE	LS	1	1	1		3
	UNINTERRUPTABLE POWER SUPPLY (BATTERY BACK-UP), ALPHA TECH BATTERIES, HEATING MATS, INCLUDES AUTOMATIC AND GENERATOR TRANSFER SWITCHES	LS	1	1	1		3
DETECTION	EMERGENCY VEHICLE PREEMPTION UNIT INTERFACE CARD AND RACK	LS	1	1	1		3
	VEHICLE DETECTION CAMERAS WITH PROCESSOR AND ACCESSORIES	LS	1	1	1		3
	APS PEDESTRIAN PUSHBUTTON WITH R10-3E SIGN	EACH	4	8	8		20
	PELCO TRAFFIC MONITORING CAMERA SYSTEM	EACH	1	1	1		3
TRAFFIC SIGNAL HEADS	12" <R,<Y,<FY,<G (ALL LED) W/ BACKPLATE, MAST-ARM MOUNTED	EACH	2	4	4	2	12
	12" <R,<Y,<FY,<G (ALL LED), W/ BACKPLATE, SIDE-OF-POLE MOUNTED	EACH	2	4	4		10
	12" R,Y,G (ALL LED) W/ BACKPLATE, MAST-ARM MOUNTED	EACH	4	4	4		12
	12" R,Y,G, (ALL LED), W/ BACKPLATE, SIDE-OF-POLE MOUNTED	EACH	2	4	4		10
	12" R,Y>,G> (ALL LED) W/ BACKPLATE, MAST-ARM MOUNTED	EACH	1				1
	12" R,Y>,G>, (ALL LED), W/ BACKPLATE, SIDE-OF-POLE MOUNTED	EACH	1				1
	16" PEDESTRIAN HEAD, HAND/PERSON, COUNTDOWN SIDE-OF-POLE MOUNTED	EACH	4	8	8		20
POWER SUPPLY	POWER SUPPLY	EACH	1	1	1		3
		EACH					
HANDHOLES	TYPE I - PRE-CAST CONCRETE HANDHOLE, 24" DIAMETER	EACH	3	3	3		9
	TYPE III - 24" x 36" PRE-CAST POLYMER-CONCRETE HANDHOLE	EACH	1	1	1		3
	TYPE IV - 30" x 48" PRE-CAST POLYMER-CONCRETE HANDHOLE	EACH	1	4	1		6
WIRE AND CABLE	SIGNAL CABLE - 12c #14 AWG	LIN FT	520	940	900		2360
	SIGNAL CABLE - 7c #14 AWG	LIN FT	170	360	430	130	1090
	SIGNAL CABLE - 5c #14 AWG	LIN FT	1030	480	460		1970
	SIGNAL CABLE - 2c #14 AWG	LIN FT	560	1080	1000		2640
	EMERGENCY VEHICLE PREEMPTION CABLE	LIN FT	80	70	70		220
	TRAFFIC MONITORING CAMERA CABLE	LIN FT	80	70	80		230
	VIDEO DETECTION CABLE	LIN FT	600	770	750		2120
	LUMINAIRE CABLE - 1c #8 AWG	LIN FT	700	690	660		2050
	LUMINAIRE CABLE - 1c #10 AWG	LIN FT	320	320	300		940
	POWER CABLE - 1c #4 AWG	LIN FT	110	150	150		410
	GROUND WIRE - 1c #6 BARE	LIN FT	470	580	470		1520
	TRACER WIRE - 1c #10	LIN FT	2190	600	500		3290
	24-FIBER SINGLE MODE - PRYSMIAN	LIN FT	1640				1640
	12-FIBER SINGLE MODE FLAT RIBBON PIGTAIL - PRYSMIAN	LIN FT	20	30	30		80
	PULL TAPE	LIN FT	2190	600	500		3290
CONDUIT	2" PVC, TRENCHED/BORED	LIN FT	1880	250	180		2310
	3" PVC, TRENCHED/BORED	LIN FT	380	380	370		1130
CONCRETE FOOTING	CONTROLLER CABINET AND POWER SERVICE/UPS CABINET FOOTING	EACH	1	1	1		3
	POLE FOOTING, 2' DIA x 4' DEPTH	EACH	3	8	5		16
	POLE FOOTING, 3' DIA x 12' DEPTH	EACH	2		2		4
	POLE FOOTING, 3' DIA x 14' DEPTH	EACH		4	2		6
	POLE FOOTING, 3' DIA x 16' DEPTH	EACH	1				1
	LIGHT POLE FOOTING, LI-201	EACH	1				1
TRAFFIC SIGNAL POLES	STEEL COMBINATION SIGNAL/LIGHTING - 22' MAST ARM - BLACK	EACH	1				1
	STEEL COMBINATION SIGNAL/LIGHTING - 35' MAST ARM - BLACK	EACH	1		2		3
	STEEL COMBINATION SIGNAL/LIGHTING - 38' MAST ARM - BLACK	EACH		2			2
	STEEL COMBINATION SIGNAL/LIGHTING - 40' MAST ARM - BLACK	EACH		2	1		3
	STEEL COMBINATION SIGNAL/LIGHTING - 45' MAST ARM - BLACK	EACH			1		1
	STEEL COMBINATION SIGNAL/LIGHTING - 48' MAST ARM - BLACK	EACH	1				1
	ALUMINUM PEDESTAL POLE - HEIGHT 10' - BLACK	EACH	3				3
	ALUMINUM PEDESTAL POLE - HEIGHT 5' - BLACK	EACH		8	5		13
	STEEL LIGHTING POLE - 40' MOUNTING HEIGHT - BLACK	EACH	1				1
LUMINAIRE	LUMINAIRE FIXTURE - BLACK	EACH	4	4	4		12
	CONNECTOR - Y-3, UNFUSED	EACH	6	6	6		18
	CONNECTOR - L-1, FUSED	EACH	8	8	8		24
MISC	STREET NAME SIGN - 84" x 24", MAST-ARM MOUNTED (CITY FURNISHED)	EACH	1	2			3
	STREET NAME SIGN - 102" x 24", MAST-ARM MOUNTED (CITY FURNISHED)	EACH			2		2
	STREET NAME SIGN - 120" x 24", MAST-ARM MOUNTED (CITY FURNISHED)	EACH	2	2	2		6
	TRAFFIC SIGN - R3-5L, 30" x 36", MAST-ARM MOUNTED	EACH	2	4	4		10
	TRAFFIC SIGN - R3-5R, 30" x 36", MAST-ARM MOUNTED	EACH	1		1		2
	TRAFFIC SIGN - W14-1, 30" x 30", POLE MOUNTED	EACH			1		1

TRAFFIC SIGNAL EQUIPMENT

EQUIPMENT	MANUFACTURER	MODEL NO.
CONTROLLER	ECONOLITE	COBALT OR COMPATIBLE
EMERGENCY VEHICLE PREEMPTION	GTT	OPTICOM 3101 GPS
VIDEO DETECTION	ECONOLITE	AUTOSCOPE VISION OR COMPATIBLE
PEDESTAL POLES	PELCO	PB SERIES, SCHEDULE 80
ACCESSIBLE PEDESTRIAN SIGNALS		
PUSHBUTTON STATION	CAMPBELL	GUARDIAN
CONTROL UNIT	CAMPBELL	ADVANCED CONTROLLER OR COMPATIBLE
TRAFFIC MONITORING CAMERA	PELCO	SPECTRA ENHANCED 7 SERIES, W/ 30x OPTICAL ZOOM W/ 2 TB SD CARD
ETHERNET SWITCH (BY OTHERS)		FURNISHED & INSTALLED BY OTHERS
BATTERY BACKUP CABINET	ALPHA TECH	SE48-2216 W/ TRAY KIT
UPS	ALPHA TECH	ALPHA FXM 1100
MMU	RENO	MMU2-1600GE OR COMPATIBLE
ABOVE EQUIPMENT IS INCLUDED IN OR INCIDENTAL TO ITEMS SHOWN IN THE ESTIMATE OF TRAFFIC SIGNAL QUANITITIES		

IOWA DOT STANDARD ROAD PLANS

NUMBER	DATE	IDENTIFICATION
TS-102	10-21-25	TRAFFIC SIGNAL POLE FOUNDATION
LI-103	10-21-25	CONDUIT AND PRECAST HANDHOLES
LI-201	04-18-17	LIGHT POLE FOUNDATION

TRAFFIC SIGNAL LEGEND

EXISTING	PROPOSED	FUTURE	
			TRAFFIC SIGNAL
			TRAFFIC SIGNAL WITH BACKPLATE
			PEDESTRIAN SIGNAL
	(XX)		MAST ARM SUSPENDED TRAFFIC SIGNAL (XX = LENGTH OF MAST ARM)
			METAL TRAFFIC SIGNAL PEDESTAL
			TRAFFIC SIGNAL HEAD NUMBER
	(X)	(X)	POLE OR SIGN NUMBER
			STREET LIGHT ON SIGNAL POLE
			CONDUIT TRENCHED, PUSHED, JACKED, OR BORED
			HANDHOLE

EXISTING	PROPOSED	
		CONTROLLER CABINET WITH FOOTING
		SECONDARY SERVICE POINT
		DETECTION ZONE (XX = NUMBER DESIGNATION)
		VIDEO DETECTION CAMERA
		TRAFFIC MONITORING CAMERA
		EMERGENCY VEHICLE DETECTOR
		POLE MOUNTED SIGN

LICENSED PROFESSIONAL ENGINEER
ANTHONY J. BOES
P12387
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Anthony J. Boes, P.E. 5/27/26
Date

License Number P12387

My License Renewal Date is December 31, 2027

Pages or sheets covered by this seal:
N.1-N.10, P.1-P.9

MARK	REVISION	DATE	BY

Engineer: AJB | Checked By: TPM | Scale: 1"= 10'
Technician: KMM | Date: 5/26/2026 | Field Bk: Pg:

Project No: HDP-4775(646)--71-57

Sheet N.1

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

TRAFFIC SIGNAL GENERAL NOTES AND QUANTITIES CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

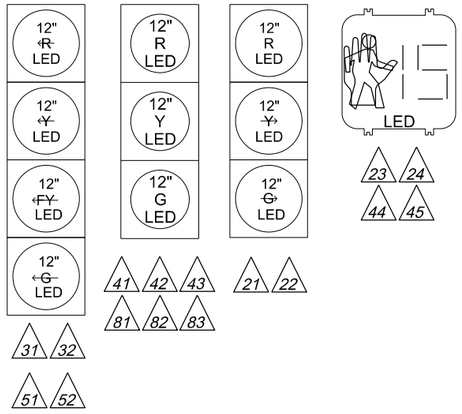
SNYDER & ASSOCIATES

Project No: HDP-4775(646)--71-57

Sheet N.1

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TRAFFIC SIGNAL FACES



LAYOUT NOTES

1) SEE SHEET N.3 FOR LOCATIONS OF ADVANCED DETECTION ZONES.
2) SEE SHEET N.4 FOR HH F02 LOCATION.
3) COORDINATE POWER SOURCE CONNECTION WITH ALLIANT ENERGY.
4) MATCH TOP OF SIGNAL POLE FOOTING WITH TOP OF RETAINING WALL. ELEVATION = 804.55

TRAFFIC SIGNS



R3-5L 30" X 36" (A) (2 EACH)



R3-5R 30" X 36" (B) (1 EACH)

STREET NAME SIGNS



120" X 24" (D) (2 EACH)



110" X 36" (F) (1 EACH)

NOTE:
CITY TO PROVIDE SIGNS

SIGN TO INCLUDE 2 ASTRO BRACKETS

NOTE 1

NOTE 2

NOTE 3

INSTALL 2" CONDUIT TO CONNECT TO CITY OWNED HANDHOLE

NOTE 4

ALBURNETT RD

MARION BLVD

7TH AVE

BRANNON E INVESTMEN 200 7TH

112+00

111+00

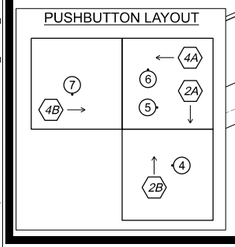
113+00

(35')

(48')

(22')

PUSHBUTTON LAYOUT



0 10 FEET

POLE, HANDHOLE, AND CABINET LOCATIONS

POLE NO.	STATION	OFFSET	RT/LT	COMMENTS
1	111+71.20	47.67'	LT	T/F ELEV. = 802.16
2	111+74.50	49.00'	RT	T/F ELEV. = MATCH RET WALL
3	112+57.21	47.00'	RT	T/F ELEV. = MATCH SIDEWALK
4	112+84.00	39.28'	RT	10' PEDESTAL POLE
5	112+75.53	38.24'	LT	10' PEDESTAL POLE
6	112+58.55	53.83'	LT	T/F ELEV = MATCH SIDEWALK
7	111+96.54	63.49'	LT	10' PEDESTAL POLE
HANDHOLE NO.	STATION	OFFSET	RT/LT	COMMENTS
1	111+84.85	64.61'	LT	TYPE III
2	111+82.88	50.06'	RT	TYPE I
3	112+48.85	48.69'	RT	TYPE I
4	112+60.50	51.28'	LT	TYPE I
F01	111+83.25	67.91'	LT	TYPE IV
CABINET	111+78.27	64.86'	LT	PER DETAIL

NOTE: STATIONS AND OFFSETS FROM THE 7TH AVE CHAIN

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
Engineer: AJB	Checked By: TPM	5/13/2026	
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:

Project No: HDP-4775(646)--71-57

Sheet N.2

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

TRAFFIC SIGNAL LAYOUT - 7TH AVE

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

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Project No: HDP-4775(646)--71-57

Sheet N.2

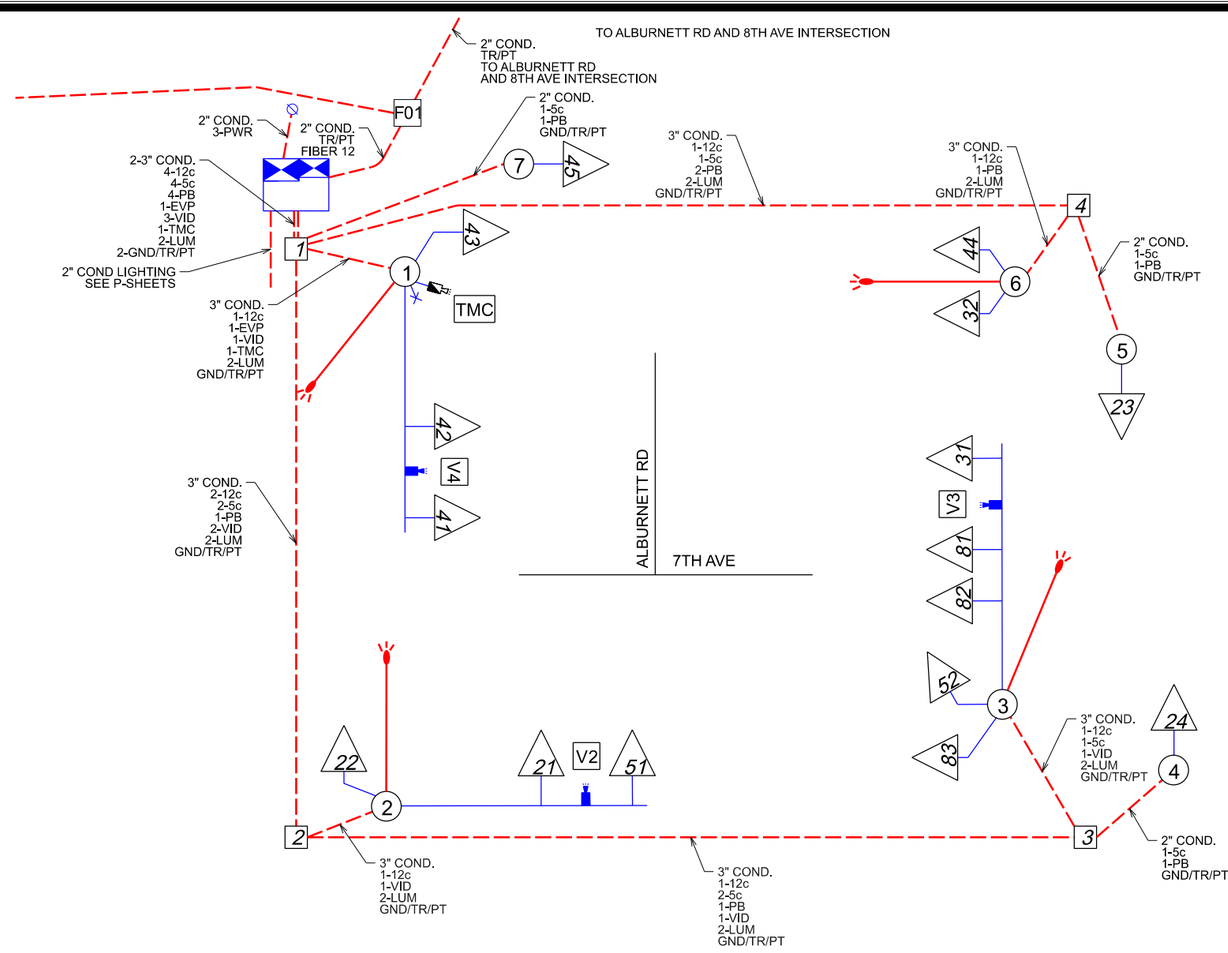
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DETECTOR SUMMARY

CAMERA NUMBER	DETECTION ZONE	ZONE LIMITS (DISTANCE FROM STOP LINE)	PHASE CALLED	PHASE EXTENDED	DETECTOR INPUT ASSIGNMENT	COMMENTS
V1	41	170' TO 210'	4	4		
	42	170' TO 210'	4	4		
	43	0' TO 40'	4	4		
	44	0' TO 40'	4	4		
V2	21	0' TO 40'	2	2		
	22	0' TO 40'	2	2		
	51	50' TO 70'	5			
	52	0' TO 40'	2	5,2		
V3	31	50' TO 70'	3			
	32	0' TO 40'	8	3,8		
	81	170' TO 210'	8	8		
	82	170' TO 210'	8	8		
	83	0' TO 40'	8	8		
	84	0' TO 40'	8	8		
2A,2B						PED PB
4A,4B						PED PB

DETECTION NOTES:

1. ZONE LIMITS ARE FOR DETECTION LIMITS ONLY. ACTUAL DETECTION AREAS FOR EACH ZONE WILL BE DETERMINED IN THE FIELD.



WIRING LEGEND

▷	SIGNAL NUMBER
(2)	POLE NUMBER
[2]	HANDHOLE NUMBER
22	EXISTING DETECTOR NUMBER
22	PROPOSED DETECTOR NUMBER
	VIDEO DETECTION CAMERA
	TMC CAMERA
V2	VIDEO CAMERA NUMBER
	EMERGENCY VEHICLE DETECTOR
COND	CONDUIT
PWR	POWER CABLE
LUM	LUMINAIRE (1c #8)
PB	PEDESTRIAN PUSHBUTTON (2c)
EVP	EMERGENCY VEHICLE PREEMPTION
TMC	TRAFFIC MONITOR CAMERA CABLE
VID	VIDEO OR DETECTION CABLE(S)
FO	FIBER OPTIC CABLE
GND	GROUND WIRE (1c #6)
TR	TRACER WIRE (1c #10)
PT	PULL TAPE

TRAFFIC SIGNAL POLE DATA

POLE NO.	POLE TYPE	MAST ARM LENGTH/ PEDESTAL HEIGHT (ft.)	TRAFFIC SIGNAL ① HEADS QTY.	TRAFFIC SIGNAL ① HEADS LOCATION ON ARM (ft.)	① TRAFFIC SIGNS QTY.	① TRAFFIC SIGNS LOCATION ON ARM (ft.)	① VIDEO CAMERAS LOCATION ON ARM (ft.)	② LUMINAIRE ARM SPREAD (ft.)	② LUMINAIRE ARM MOUNTING HEIGHT (ft.)	② LUMINAIRE ARM ORIENTATION (degrees)	FOOTINGS DIA. (ft.)	FOOTINGS DEPTH (ft.)	MISCELLANEOUS	TOTAL QUANTITY
1	COMBINATION SIGNAL / LIGHTING	35	2	35, 23	1	8	28	15	40	0	3	12	③④	1
2	COMBINATION SIGNAL / LIGHTING	22	2	22,11	3	19, 14, 5	16	15	40	270	3	12	③④⑤	1
3	COMBINATION SIGNAL / LIGHTING	48	3	47,35,23	2	44, 11	41	15	40	0	3	16	③④⑤	1
4,5,7	PEDESTAL	10									2	4	③④⑤	3
6	LIGHTING							15	40	NOTE 6	2.25	8	⑤⑥⑦	1

TRAFFIC SIGNAL POLE NOTES:

① LOCATION REPRESENTS APPROXIMATE LINEAR DISTANCE FROM POLE MEASURED OUTWARD TO END OF ARM.

② ORIENTATION OF LUMINAIRE ARM REPRESENTS A CLOCKWISE ANGLE MEASURED FROM THE CENTERLINE OF THE MAST ARM.

③ POLES SHALL BE DESIGNED AS PER THE SUDAS SPECIFICATIONS WITH A ONE-PIECE VERTICAL POLE.

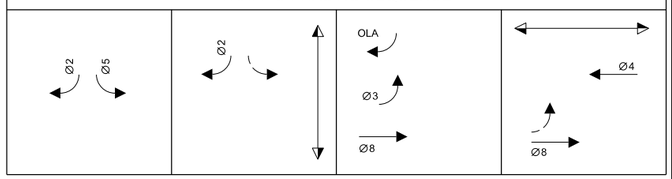
④ UNLESS OTHERWISE DIRECTED, TRAFFIC SIGNAL HEADS ON MAST ARMS ARE TO BE ALIGNED OVER THE CENTER OF INTERSECTION APPROACH LEFT TURN AND DEPARTURE THROUGH LANES. APPROXIMATE LOCATIONS ARE AS SHOWN IN THE TRAFFIC SIGNAL POLE DATA TABLE. CONTRACTOR SHALL FIELD VERIFY SIGNAL HEAD LOCATIONS.

⑤ TOP OF FOOTING TO BE FORMED SQUARE AND FLUSH WITH PROPOSED OR EXISTING SIDEWALK.

⑥ ORIENTATION OF LUMINAIRE ARM SHALL BE PARALLEL WITH ADJACENT CROSSWALK.

⑦ LIGHT POLE FOOTING PER IOWA DOT STANDARD ROAD PLAN LI-201.

TRAFFIC PHASING SEQUENCE



NOT TO SCALE

INITIAL RECOMMENDED TIMING (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MINIMUM GREEN		10	5	10	5	10		10
PASSAGE		2.0	2.0	2.0	2.0	2.0		2.0
MAXIMUM I		30	15	30	15	30		30
MAXIMUM II								
YELLOW CHANGE		3.7	3.2	4.1	3.0	3.7		4.1
RED CLEARANCE		1.4	2.1	1.2	2.1	1.4		1.2
WALK				7		7		
PEDESTRIAN CLEARANCE				10		14		

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
		5/13/2026	

Engineer: AJB | Checked By: TPM | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: HDP-4775(646)--71-57

Sheet N.3

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

TRAFFIC SIGNAL WIRING - 7TH AVE

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

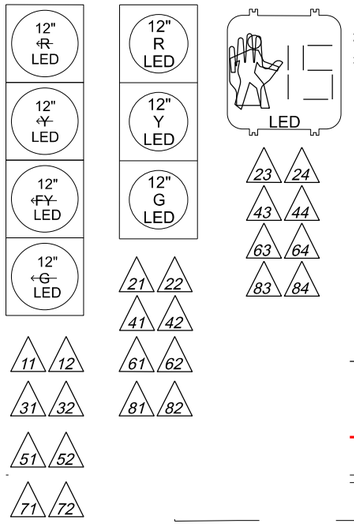
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Project No: HDP-4775(646)--71-57

Sheet N.3

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TRAFFIC SIGNAL FACES



LAYOUT NOTES

1) SEE SHEET N.5 FOR LOCATIONS OF ADVANCED DETECTION ZONES.
2) SEE SHEET N.2 FOR HH F01 LOCATION.
3) COORDINATE POWER SOURCE CONNECTION WITH ALLIANT ENERGY.

NOTE 1

SIGN TO INCLUDE 2 ASTRO BRACKETS

STREET NAME SIGNS

LOGO Alburnett Rd — 120" X 24" (D) (2 EACH)

LOGO 8th Ave — 84" X 24" (F) (2 EACH)

ALBURNETT RD

8TH AVE

17+00

16+00

(38')

(40')

NOTE 3

NOTE 1

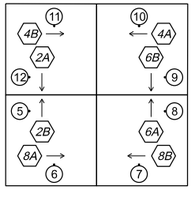
NOTE 2

TRAFFIC SIGNS



R3-5L
30" X 36"
(A)
(4 EACH)

PUSHBUTTON LAYOUT



POLE, HANDHOLE, AND CABINET LOCATIONS

POLE NO.	STATION	OFFSET	RT/LT	COMMENTS
1	16+35.21	40.50	LT	F/T ELEV. = MATCH SIDEWALK
2	16+43.40	48.13	RT	F/T ELEV. = MATCH SIDEWALK
3	17+25.27	40.50	RT	F/T ELEV. = MATCH SIDEWALK
4	17+19.63	50.00	LT	F/T ELEV. = MATCH SIDEWALK
5	16+48.76	49.88'	LT	5' PEDESTAL POLE
6	16+35.76	30.00'	LT	5' PEDESTAL POLE
7	16+35.71	30.00'	RT	5' PEDESTAL POLE
8	16+50.90	47.62'	RT	5' PEDESTAL POLE
9	17+11.84	47.96'	RT	5' PEDESTAL POLE
10	17+24.83	29.99'	RT	5' PEDESTAL POLE
11	17+25.28	29.99'	LT	5' PEDESTAL POLE
12	17+12.13	49.54'	LT	5' PEDESTAL POLE
HANDHOLE NO.	STATION	OFFSET	RT/LT	COMMENTS
1	16+28.64	28.94'	LT	TYPE III
2	16+35.51	43.40'	RT	TYPE I
3	17+19.58	50.08'	RT	TYPE I
4	17+07.85	57.86'	LT	TYPE I
F02	16+18.65	28.94'	LT	TYPE IV
F03	17+35.78	26.52'	LT	TYPE IV
F04	23+16.53	27.51'	LT	TYPE IV
F05	23+16.53	43.36'	RT	TYPE IV
CABINET	16+26.71	42.24'	LT	PER DETAIL

NOTE: STATIONS AND OFFSETS FROM THE ALBURNETT RD CHAIN

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
Engineer: AJB	Checked By: TPM		Field Bk: Pg:
Technician: KMM	Date: 5/8/2026	5/13/2026	

Project No: HDP-4775(646)--71-57

Sheet N.4

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

TRAFFIC SIGNAGE LAYOUT - 8TH AVE

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: HDP-4775(646)--71-57

Sheet N.4

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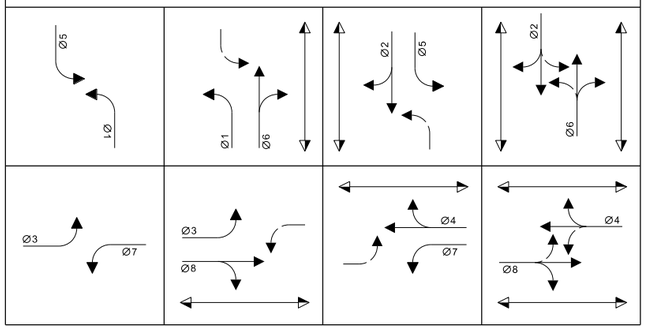
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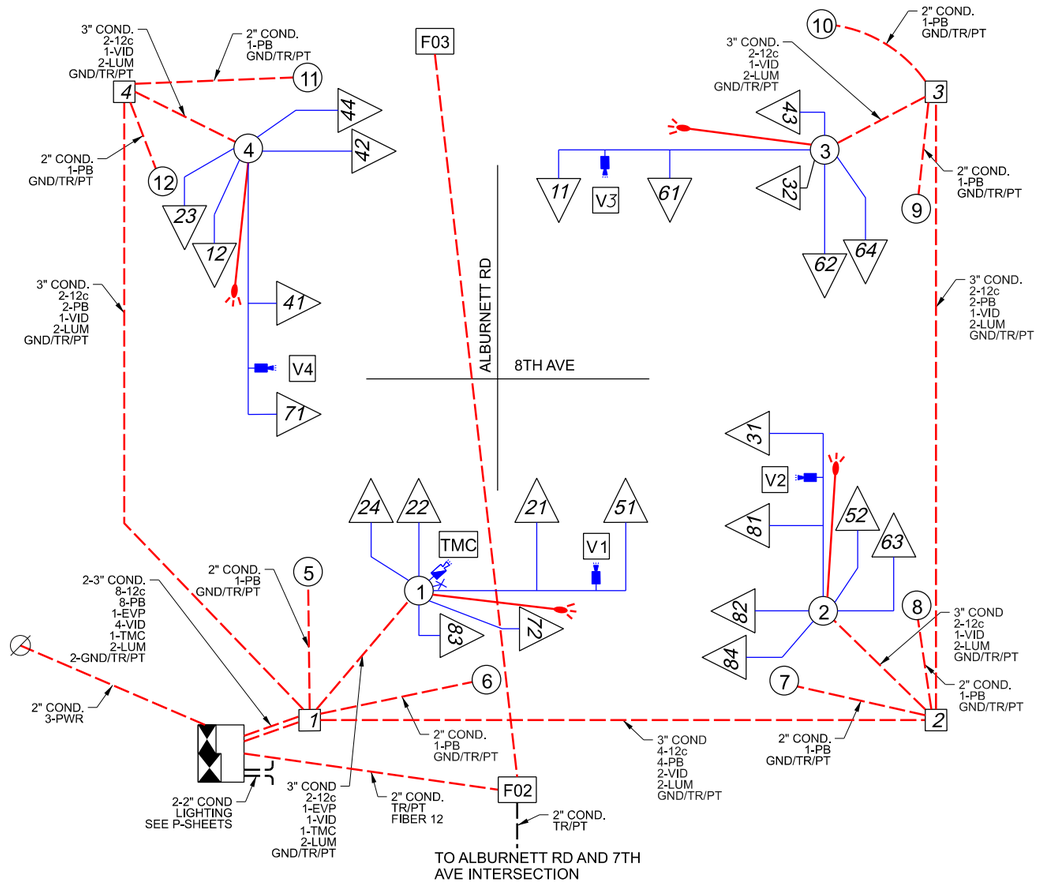
CAMERA NUMBER	DETECTION ZONE	ZONE LIMITS (DISTANCE FROM STOP LINE)	PHASE CALLED	PHASE EXTENDED	DETECTOR INPUT ASSIGNMENT	COMMENTS
V1	21	0' TO 40'	2	2		
	22	0' TO 40'	2	2		
	51	50' TO 70'	5			
	52	0' TO 40'	2	5,2		
V2	31	50' TO 70'	3			
	32	0' TO 40'	8	3,8		
	81	0' TO 40'	8	8		
	82	0' TO 40'	8	8		
V3	11	50' TO 70'	1			
	12	0' TO 40'	6	1,6		
	61	0' TO 40'	6	6		
	62	0' TO 40'	6	6		
V4	41	0' TO 40'	4	4		
	42	0' TO 40'	4	4		
	71	50' TO 70'	7			
	72	0' TO 40'	4	7,4		
2A,2B						PED PB
4A,4B						PED PB
6A,6B						PED PB
8A,8B						PED PB

DETECTION NOTES:

1. ZONE LIMITS ARE FOR DETECTION LIMITS ONLY. ACTUAL DETECTION AREAS FOR EACH ZONE WILL BE DETERMINED IN THE FIELD.
2. DELAYS SHALL BE ENTERED IN THE SIGNAL CONTROLLER BY THE CITY.

TRAFFIC PHASING SEQUENCE





WIRING LEGEND

	SIGNAL NUMBER
(2)	POLE NUMBER
[2]	HANDHOLE NUMBER
(2)	EXISTING DETECTOR NUMBER
(2)	PROPOSED DETECTOR NUMBER
	VIDEO DETECTION CAMERA
	TMC CAMERA
V2	VIDEO CAMERA NUMBER
	EMERGENCY VEHICLE DETECTOR
COND	CONDUIT
PWR	POWER CABLE
LUM	LUMINAIRE (1c #8)
PB	PEDESTRIAN PUSHBUTTON (2c)
EVP	EMERGENCY VEHICLE PREEMPTION
TMC	TRAFFIC MONITOR CAMERA CABLE
VID	VIDEO OR DETECTION CABLE(S)
FO	FIBER OPTIC CABLE
GND	GROUND WIRE (1c #6)
TR	TRACER WIRE (1c #10)
PT	PULL TAPE

TRAFFIC SIGNAL POLE DATA

POLE NO.	POLE TYPE	MAST ARM LENGTH/ PEDESTAL HEIGHT (ft.)	TRAFFIC SIGNAL ① HEADS		① TRAFFIC SIGNS		① VIDEO CAMERAS	② LUMINAIRE ARM			FOOTINGS		MISCELLANEOUS	TOTAL QUANTITY
			QTY.	LOCATION ON ARM (ft.)	QTY.	LOCATION ON ARM (ft.)	LOCATION ON ARM (ft.)	SPREAD (ft.)	MOUNTING HEIGHT (ft.)	ORIENTATION (degrees)	DIA. (ft.)	DEPTH (ft.)		
1	COMBINATION SIGNAL / LIGHTING	40	2	40, 29	2	40, 14	35	15	40	0	3	14	③④⑤	1
2	COMBINATION SIGNAL / LIGHTING	38	2	38, 27	2	38, 12	33	15	40	0	3	14	③④⑤	1
3	COMBINATION SIGNAL / LIGHTING	40	2	40, 29	2	40, 14	35	15	40	0	3	14	③④⑤	1
4	COMBINATION SIGNAL / LIGHTING	38	2	38, 27	2	38, 12	33	15	40	0	3	14	③④⑤	1
5-12	PEDESTAL	5									2	4	⑤	8

TRAFFIC SIGNAL POLE NOTES:

① LOCATION REPRESENTS APPROXIMATE LINEAR DISTANCE FROM POLE MEASURED OUTWARD TO END OF ARM.

② ORIENTATION OF LUMINAIRE ARM REPRESENTS A CLOCKWISE ANGLE MEASURED FROM THE CENTERLINE OF THE MAST ARM.

③ POLES SHALL BE DESIGNED AS PER THE SUDAS SPECIFICATIONS WITH A ONE-PIECE VERTICAL POLE.

④ UNLESS OTHERWISE DIRECTED, TRAFFIC SIGNAL HEADS ON MAST ARMS ARE TO BE ALIGNED OVER THE CENTER OF INTERSECTION APPROACH LEFT TURN AND DEPARTURE THROUGH LANES. APPROXIMATE LOCATIONS ARE AS SHOWN IN THE TRAFFIC SIGNAL POLE DATA TABLE. CONTRACTOR SHALL FIELD VERIFY SIGNAL HEAD LOCATIONS.

⑤ TOP OF FOOTING TO BE FORMED SQUARE AND FLUSH WITH PROPOSED OR EXISTING SIDEWALK.

NOT TO SCALE

INITIAL RECOMMENDED TIMING (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MINIMUM GREEN	5	10	5	10	5	10	5	10
PASSAGE	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MAXIMUM I	15	30	15	30	15	30	15	30
MAXIMUM II								
YELLOW CHANGE	3.0	3.7	3.0	3.7	3.0	3.7	3.0	3.7
RED CLEARANCE	1.8	1.1	1.8	1.1	1.8	1.1	1.8	1.1
WALK		7		7		7		7
PEDESTRIAN CLEARANCE		10		10		10		10

FINAL TIMINGS PROVIDED BY THE CITY OF MARION ENGINEERING DEPARTMENT.

MARK	REVISION	DATE	BY
		5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: AJB | Checked By: TPM | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: HDP-4775(646)--71-57

Sheet N.5

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

TRAFFIC SIGNAL WIRING - 8TH AVE

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

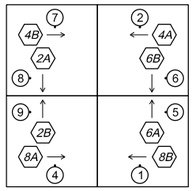
SNYDER & ASSOCIATES

Project No: HDP-4775(646)--71-57

Sheet N.5

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PUSHBUTTON LAYOUT



LAYOUT NOTES

1) SEE SHEET N.7 FOR LOCATIONS OF ADVANCED DETECTION ZONES.
2) COORDINATE POWER SOURCE CONNECTION WITH ALLIANT ENERGY.

STREET NAME SIGNS

LOGO **Alburnett Rd** 120" X 24" (D) (2 EACH)

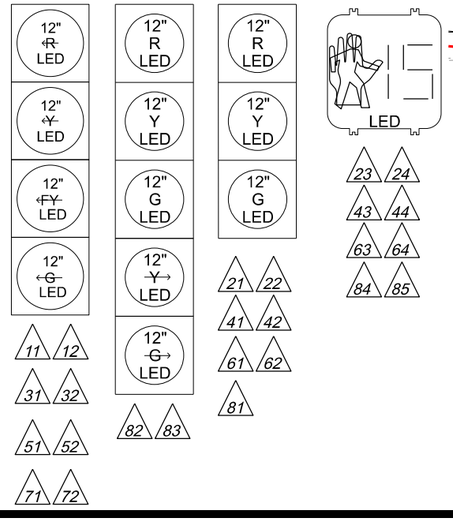
LOGO **Boyson Rd** 102" X 24" (F) (2 EACH)

SIGN TO INCLUDE 2 ASTRO BRACKETS

TRAFFIC SIGNS

ONLY	ONLY	DEAD END
R3-5L 30" X 36" (A) (4 EACH)	R3-5R 30" X 36" (B) (1 EACH)	W14-1 30" X 30" (C) (1 EACH)

TRAFFIC SIGNAL FACES



POLE, HANDHOLE, AND CABINET LOCATIONS

POLE NO.	STATION	OFFSET	RT/LT	COMMENTS
1	54+80.27	39.28'	RT	T/F ELEV. = MATCH SIDEWALK
2	55+66.36	40.95'	RT	T/F ELEV. = MATCH SIDEWALK
3	55+68.07	41.04'	LT	T/F ELEV. = MATCH SIDEWALK
4	54+82.42	39.01'	LT	T/F ELEV. = MATCH SIDEWALK
5	54+81.02	28.79'	RT	5' PEDESTAL POLE
6	54+93.67	47.04'	RT	5' PEDESTAL POLE
7	55+58.75	47.04'	RT	5' PEDESTAL POLE
8	55+66.01	33.43'	RT	5' PEDESTAL POLE
9	55+67.34	30.54'	LT	5' PEDESTAL POLE
10	55+60.83	53.11'	LT	5' PEDESTAL POLE
11	54+96.48	53.17'	LT	5' PEDESTAL POLE
12	54+82.63	28.49'	LT	5' PEDESTAL POLE
HANDHOLE NO.	STATION	OFFSET	RT/LT	COMMENTS
1	54+73.84	42.38'	RT	TYPE I
2	55+67.68	49.68'	RT	TYPE III
3	55+72.56	41.57'	LT	TYPE I
4	54+75.96	39.76'	LT	TYPE I
FO3	55+67.33	54.17'	RT	TYPE IV
FO6				
CABINET	55+77.26	44.50'	RT	PER DETAIL

NOTE: STATIONS AND OFFSETS FROM THE ALBURNETT RD CHAIN

DOT PROJECT NUMBER: HDP-4775(646)--71-57				
			5/13/2026	BY
			DATE	
MARK	REVISION		Field Bk:	Pg:
Engineer: AJB	Checked By: TPM			
Technician: KMM	Date: 5/8/2026			

Project No: HDP-4775(646)--71-57

Sheet N.6

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

TRAFFIC SIGNAL LAYOUT - BOYSON RD

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: HDP-4775(646)--71-57

Sheet N.6

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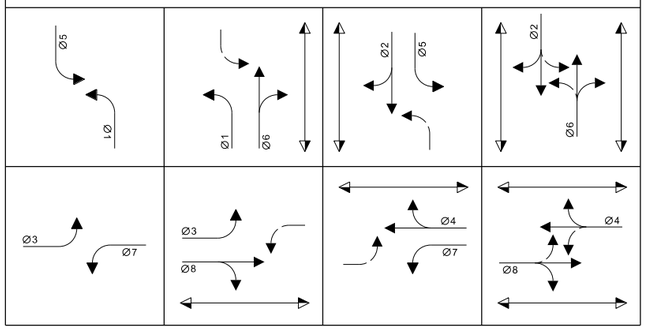
DETECTOR SUMMARY

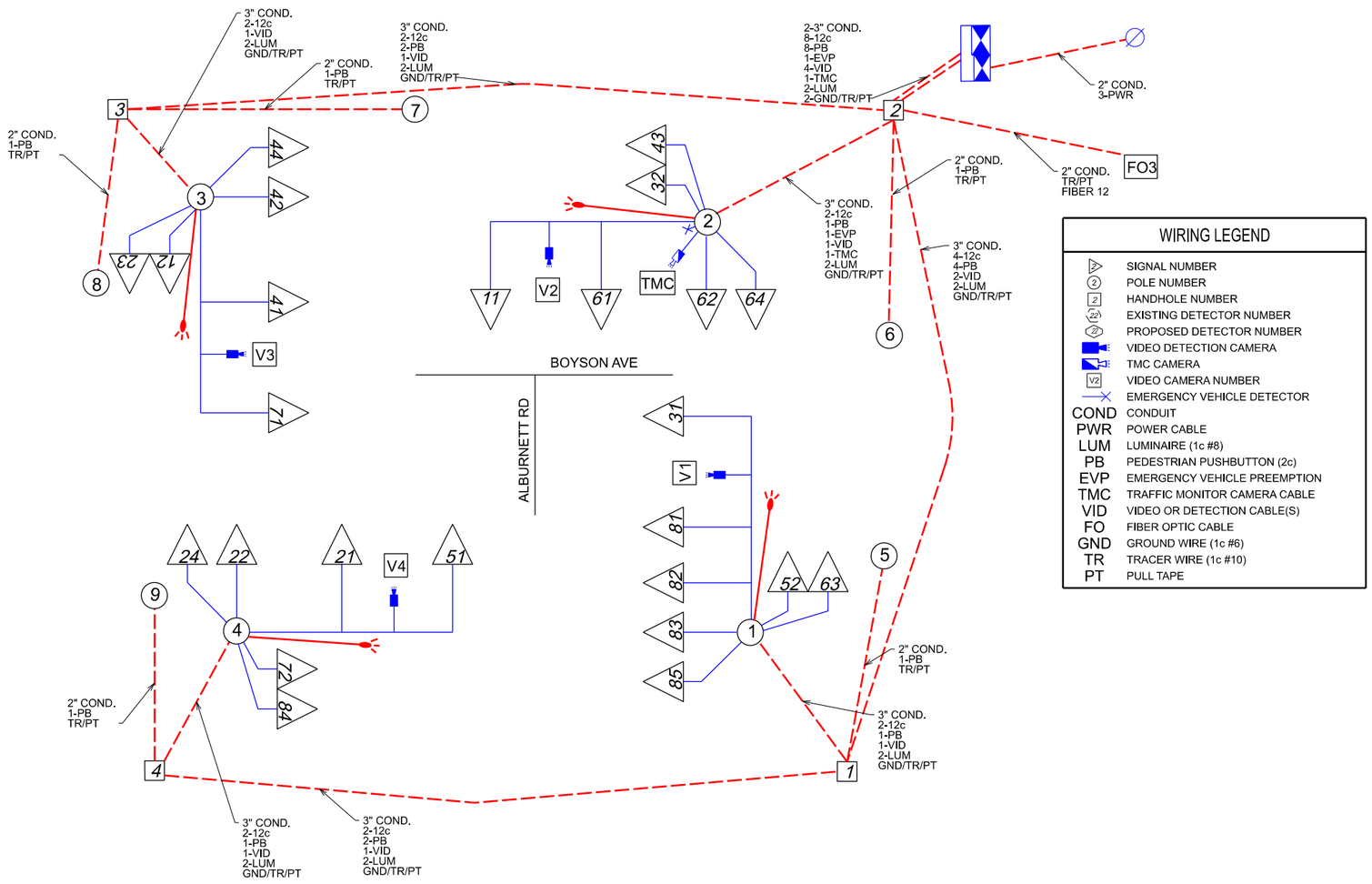
CAMERA NUMBER	DETECTION ZONE	ZONE LIMITS (DISTANCE FROM STOP LINE)	PHASE CALLED	PHASE EXTENDED	DETECTOR INPUT ASSIGNMENT	COMMENTS
V1	31	50' TO 70'	3			
	32	0' TO 40'	8	3,8		
	81	170' TO 210'	8	8		
	82	0' TO 40'	8	8		
	83	0' TO 40'	8	8		
V2	11	50' TO 70'	1			
	12	0' TO 40'	6	1,6		
	61	0' TO 40'	6	6		
	62	0' TO 40'	6	6		
V3	41	170' TO 210'	4	4		
	42	0' TO 40'	4	4		
	71	50' TO 70'	7			
	72	0' TO 40'	4	7,4		
V4	21	0' TO 40'	2	2		
	51	50' TO 70'	5			
	52	0' TO 40'	2	5,2		
2A,2B						PED PB
4A,4B						PED PB
6A,6B						PED PB
8A,8B						PED PB

DETECTION NOTES:

1. ZONE LIMITS ARE FOR DETECTION LIMITS ONLY. ACTUAL DETECTION AREAS FOR EACH ZONE WILL BE DETERMINED IN THE FIELD.

TRAFFIC PHASING SEQUENCE





WIRING LEGEND

	SIGNAL NUMBER
	POLE NUMBER
	HANDHOLE NUMBER
	EXISTING DETECTOR NUMBER
	PROPOSED DETECTOR NUMBER
	VIDEO DETECTION CAMERA
	TMC CAMERA
V2	VIDEO CAMERA NUMBER
	EMERGENCY VEHICLE DETECTOR
COND	CONDUIT
PWR	POWER CABLE
LUM	LUMINAIRE (1c #8)
PB	PEDESTRIAN PUSHBUTTON (2c)
EVP	EMERGENCY VEHICLE PREEMPTION
TMC	TRAFFIC MONITOR CAMERA CABLE
VID	VIDEO OR DETECTION CABLE(S)
FO	FIBER OPTIC CABLE
GND	GROUND WIRE (1c #6)
TR	TRACER WIRE (1c #10)
PT	PULL TAPE

TRAFFIC SIGNAL POLE DATA

POLE NO.	POLE TYPE	MAST ARM LENGTH/ PEDESTAL HEIGHT (ft.)	TRAFFIC SIGNAL ① HEADS		① TRAFFIC SIGNS		①VIDEO CAMERAS	② LUMINAIRE ARM			FOOTINGS		MISCELLANEOUS	TOTAL QUANTITY
			QTY.	LOCATION ON ARM (ft.)	QTY.	LOCATION ON ARM (ft.)	LOCATION ON ARM (ft.)	SPREAD (ft.)	MOUNTING HEIGHT (ft.)	ORIENTATION (degrees)	DIA. (ft.)	DEPTH (ft.)		
1	COMBINATION SIGNAL / LIGHTING	45	3	45,34,22	3	45,19,11	39	15	40	0	3	14	③④⑤	1
2	COMBINATION SIGNAL / LIGHTING	35	2	35,23	2	35,12	29	15	40	0	3	12	③④⑤	1
3	COMBINATION SIGNAL / LIGHTING	40	2	40,28	2	40,12	34	15	40	0	3	14	③④⑤	1
4	COMBINATION SIGNAL / LIGHTING	35	2	34,23	2	34,12	29	15	40	0	3	12	③④⑤	1
5-9	PEDESTAL	5									2	4	⑤	5

TRAFFIC SIGNAL POLE NOTES:

① LOCATION REPRESENTS APPROXIMATE LINEAR DISTANCE FROM POLE MEASURED OUTWARD TO END OF ARM.

② ORIENTATION OF LUMINAIRE ARM REPRESENTS A CLOCKWISE ANGLE MEASURED FROM THE CENTERLINE OF THE MAST ARM.

③ POLES SHALL BE DESIGNED AS PER THE IOWA DOT SPECIFICATIONS WITH A ONE-PIECE VERTICAL POLE.

④ UNLESS OTHERWISE DIRECTED, TRAFFIC SIGNAL HEADS ON MAST ARMS ARE TO BE ALIGNED OVER THE CENTER OF INTERSECTION APPROACH LEFT TURN AND DEPARTURE THROUGH LANES. APPROXIMATE LOCATIONS ARE AS SHOWN IN THE TRAFFIC SIGNAL POLE DATA TABLE. CONTRACTOR SHALL FIELD VERIFY SIGNAL HEAD LOCATIONS.

⑤ TOP OF FOOTING TO BE FORMED SQUARE AND FLUSH WITH PROPOSED OR EXISTING SIDEWALK.

NOT TO SCALE

INITIAL RECOMMENDED TIMING (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MINIMUM GREEN	5	10	5	10	5	10	5	10
PASSAGE	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MAXIMUM I	15	30	15	30	15	30	15	30
MAXIMUM II								
YELLOW CHANGE	3.0	3.7	3.2	4.1	3.0	3.7	3.2	4.1
RED CLEARANCE	1.8	1.1	2.2	1.3	1.8	1.1	2.2	1.3
WALK		7		7		7		7
PEDESTRIAN CLEARANCE		10		10		10		10

FINAL TIMINGS PROVIDED BY THE CITY OF MARION ENGINEERING DEPARTMENT.

MARK	REVISION	DATE	BY
		5/13/2026	

Engineer: AJB | Checked By: TPM | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Project No: HDP-4775(646)--71-57

Sheet N.7

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IMPROVEMENTS

CITY OF MARION, IOWA

TRAFFIC SIGNAL WIRING - BOYSON RD

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: HDP-4775(646)--71-57

Sheet N.7

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TRAFFIC SIGNAL MODIFICATIONS:

1. FURNISH AND INSTALL 4-SECTION FLASHING YELLOW ARROW LEFT TURN SIGNAL HEAD ON MAST ARM. REMOVE EXISTING ADJACENT "LEFT TURN YIELD ON GREEN" SIGN. INSTALL 1-7C#14 SIGNAL CABLE IN POLE FROM NEW SIGNAL HEAD TO POLE BASE. UTILIZE SPARE WIRES IN EXISTING CABLES FROM POLE BASE TO CONTROLLER CABINET
2. MODIFY LEFT TURN LANE VIDEO DETECTION ZONE TO CALL AND EXTEND PROTECTED LEFT TURN PHASE AND ADJACENT THROUGH PHASE.
3. PROVIDE CABINET MODIFICATIONS, EQUIPMENT, WIRING AND PROGRAMMING AS NEEDED TO PROVIDE PROTECTED-PERMISSIVE LEFT TURN OPERATION FOR THE EASTBOUND AND NORTHBOUND APPROACHES WITH NEW LEFT TURN SIGNAL HEADS. IMPLEMENT INITIAL RECOMMENDED TIMING. DO NOT ALLOW LAGGING PROTECTED LEFT TURN PHASING AT THIS INTERSECTION.

NOTE 1

NOTE 2

NOTE 3

BOYSON RD

CENTRAL AVE

TRAFFIC SIGNAL FACES

- 12" ~~R~~ LED
- 12" ~~Y~~ LED
- 12" ~~FY~~ LED
- 12" ~~G~~ LED

11 71

INITIAL RECOMMENDED TIMING (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBL	SB		EB		NB	EBL	WB
MINIMUM GREEN	5	10		10		10	5	10
PASSAGE	2.0	2.0		2.0		2.0	2.0	2.0
MAXIMUM I	15	30		30		30	15	30
MAXIMUM 2								
YELLOW CHANGE	3.2	4.1		4.1		4.1	3.2	4.1
RED CLEARANCE	3.0	2.1		1.2		2.1	2.1	1.2
WALK				11				
PEDESTRIAN CLEARANCE				23				

0 10 FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
		5/13/2026	

Engineer: AJB Checked By: TPM

Technician: KMM Date: 5/8/2026 T-R-S:

Project No: HDP-4775(646)--71-57 Sheet N.8

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

SIGNAL MODIFICATIONS - BOYSON RD & CENTRAL AVE **CITY OF MARION, IOWA**

SNYDER & ASSOCIATES

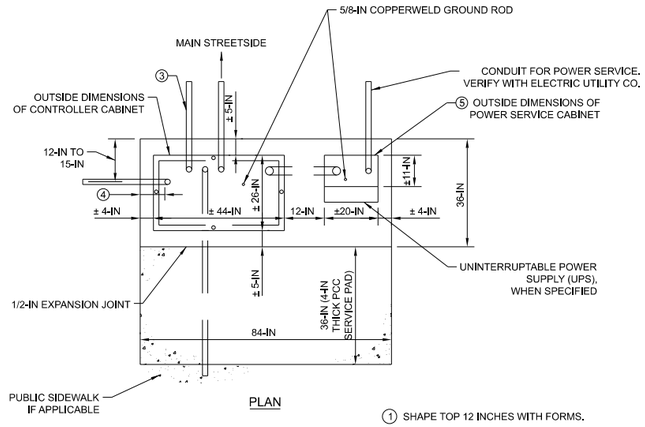
SNYDER & ASSOCIATES, INC.

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

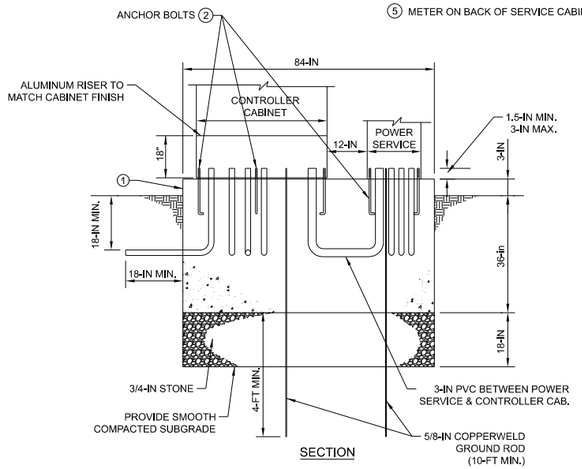
Project No: HDP-4775(646)--71-57

Sheet N.8

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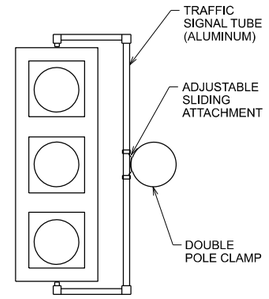
1. SHAPE TOP 12 INCHES WITH FORMS.
2. PLACEMENT OF ANCHOR BOLTS ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
3. SEE PLANS FOR NUMBER AND SIZE OF CONDUITS.
4. 10 INCHES MINIMUM CLEARANCE FROM SIDES.
5. METER ON BACK OF SERVICE CABINET.



1 N.9 CONTROLLER CABINET AND POWER SERVICE /UPS FOOTING

NO SCALE

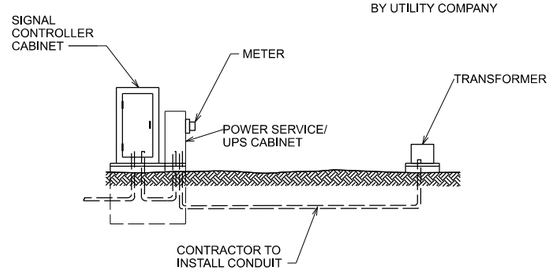
NOTE:
BRACKET SHALL PROVIDE FOR COMPLETELY CONCEALED WIRING OF SIGNAL HEADS.



2 N.9 MAST ARM SIGNAL BRACKET

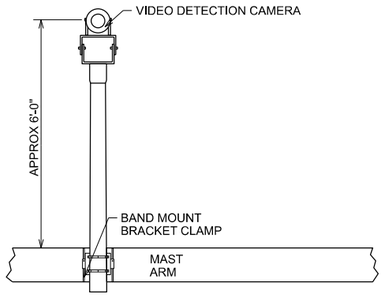
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NOTE: PROVIDE CONDUIT AND POWER CABLE TO TRANSFORMER AS DIRECTED BY UTILITY COMPANY



3 N.9 POWER SERVICE (FROM TRANSFORMER)

NO SCALE



4 N.9 VIDEO DETECTION CAMERA MOUNTING

NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
		5/13/2026	

Engineer: AJB | Checked By: TPM | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: HDP-4775(646)--71-57

Sheet N.9

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

TRAFFIC SIGNAL DETAILS

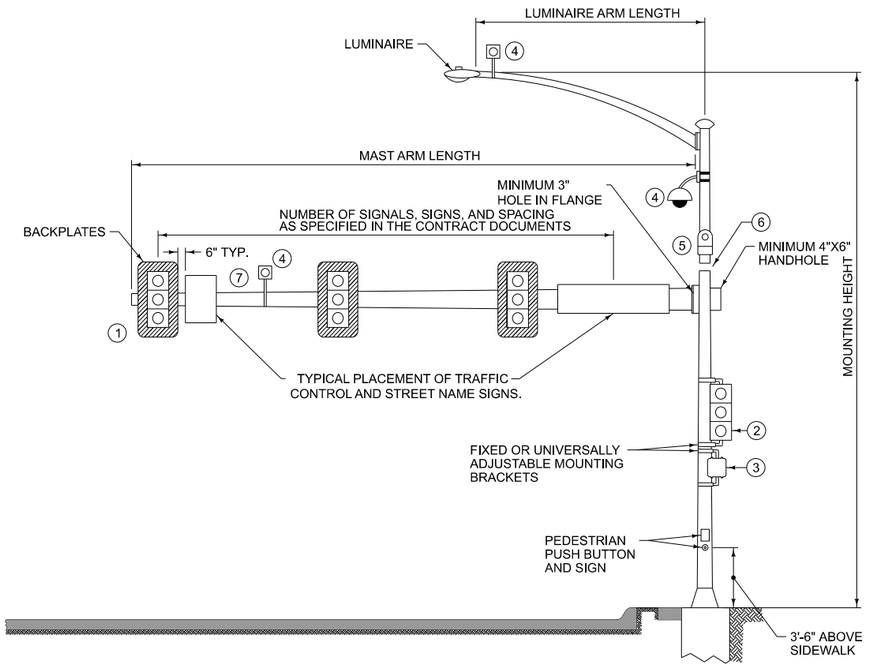
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SNYDER & ASSOCIATES

Project No: HDP-4775(646)--71-57

Sheet N.9

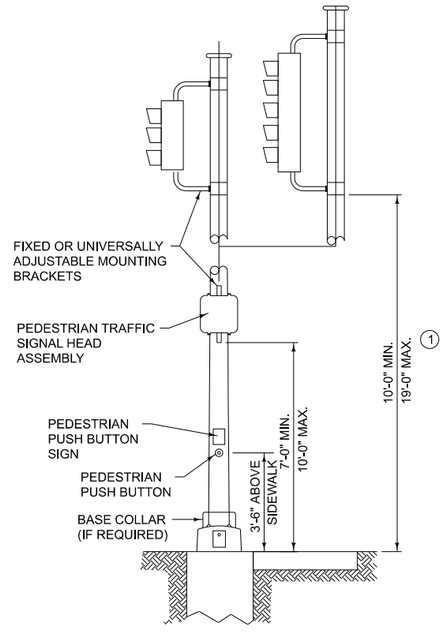
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1. ENSURE THE TOP OF THE SIGNAL HOUSING IS NO MORE THAN 25.6 FEET ABOVE THE PAVEMENT. ENSURE THE BOTTOM OF THE SIGNAL HOUSING AND RELATED ATTACHMENTS ARE AT LEAST 15 FEET ABOVE THE PAVEMENT.
2. ENSURE THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) THAT IS NOT LOCATED OVER A ROADWAY IS A MINIMUM OF 10 FEET AND A MAXIMUM OF 19 FEET ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. MOUNT PEDESTRIAN SIGNAL HEADS WITH THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) NO LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE THE SIDEWALK LEVEL. POSITION AND ADJUST HEADS TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
4. POSSIBLE VIDEO CAMERA LOCATION.
5. POSSIBLE EVP DETECTOR.
6. POLE CAP IF NO LUMINAIRE EXTENSION.
7. INSTALL WIND VIBRATION DAMPENING DEVICE ON MAST ARMS GREATER THAN 60 FEET IN LENGTH. LOCATON AND MOUNTING METHOD AS SPECIFIED BY MANUFACTURER.

1 N.10 MAST ARM POLE DETAILS

NO SCALE



1. FOR SIGNAL HEAD VISIBILITY AND POSSIBLE PEDESTRIAN HEAD INSTALLATION.

2 N.10 PEDESTAL POLE DETAILS

NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
		5/13/2026	

Engineer: AJB | Checked By: TPM | T-R-S:
Technician: KMM | Date: 5/8/2026
Project No: HDP-4775(646)--71-57 | Sheet N.10

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

TRAFFIC SIGNAL DETAILS

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Project No: HDP-4775(646)--71-57

Sheet N.10

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LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- HANDHOLE
- COMBINATION ROADWAY ANDTRAIL POLE AND LIGHTS
- TRAIL POLE AND LIGHT
- ROADWAY POLE AND LIGHT
- BRIDGE POLE AND LIGHT
- LIGHTING CONDUIT

14+00 15+00 16+00 17+00 18+00

8TH AVE

ALBURNETT RD

HH1 P1 HH4 P9 A-1 A-2 A-3 F02 F03

73 MARION CITY OF 101 8TH AVE

74 ION CITY OF 2 7TH AVE

20 LAKIN CAROL E 180 8TH AVE

19 HARMONY PROPERTY RENTALS LLC 182 8TH AVE

18 MARION CITY OF 184 8TH AVE

9 MUTH HARLAN & EDITH REV FAMILY TRUST 223 8TH AVE

10 LUNDEN DANILE G 245 8TH AVE

17 GRENIS THEODORE & REBECCA A 222 8TH AVE

16 LE BOEUF GROUP LLC 2408TH AVE

22 BUHRMAN BRIA & LYNETTE 205 9TH AVE

70 COPPER WILL & LORRIE 225 9TH AV

ERTY LLC

WIT

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57					
				5/13/2026	BY
MARK:	REVISION			DATE	
Engineer: AJB	Checked By: TPM			Field Bk:	Pg:
Technician: KMM	Date: 5/8/2026				

Project No: HDP-4775(646)--71-57

Sheet P.1

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

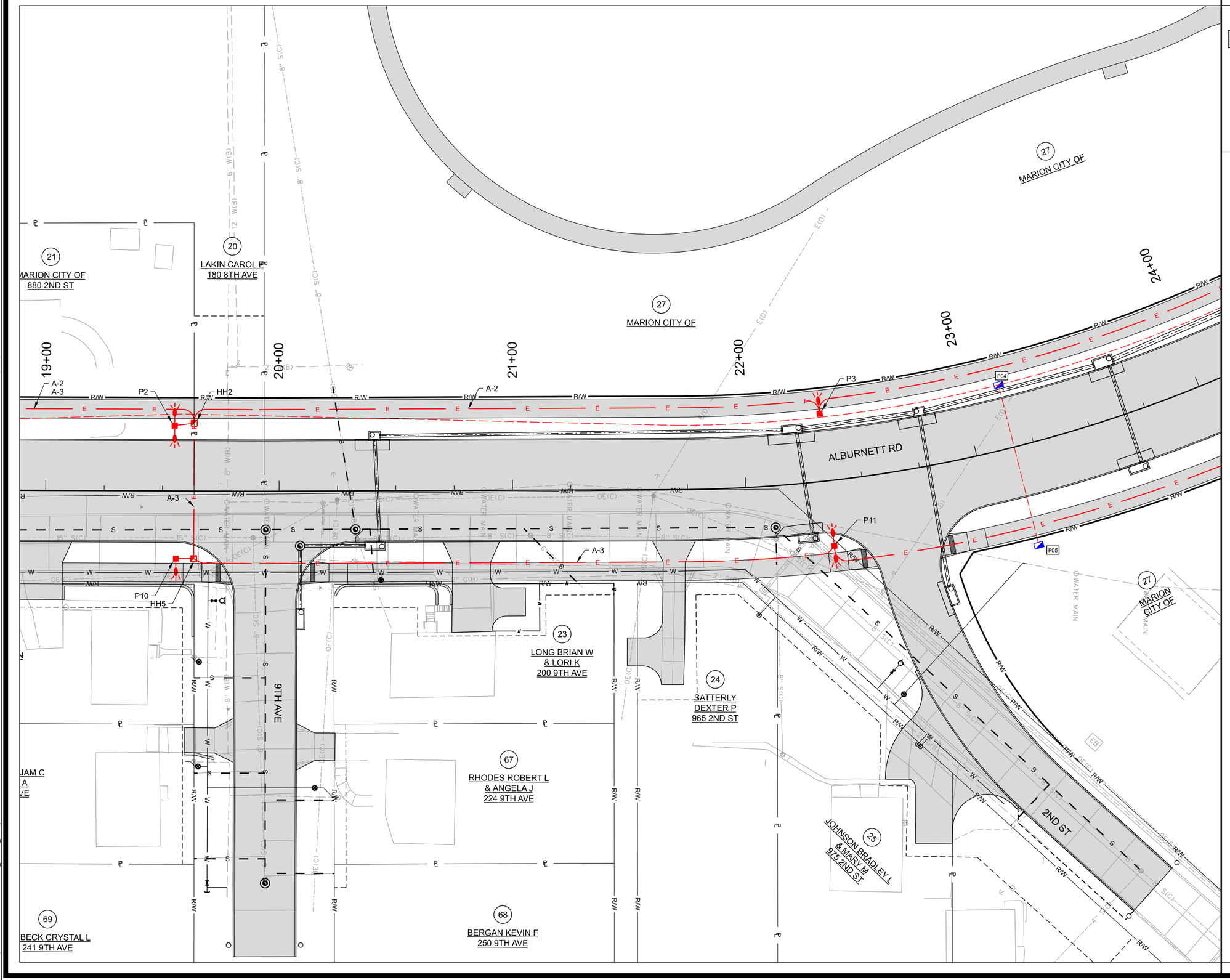
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Project No: HDP-4775(646)--71-57

Sheet P.1



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
		5/13/2026	

Engineer: AJB | Checked By: TPM | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: HDP-4775(646)--71-57

Sheet P.2

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

LIGHTING LAYOUT

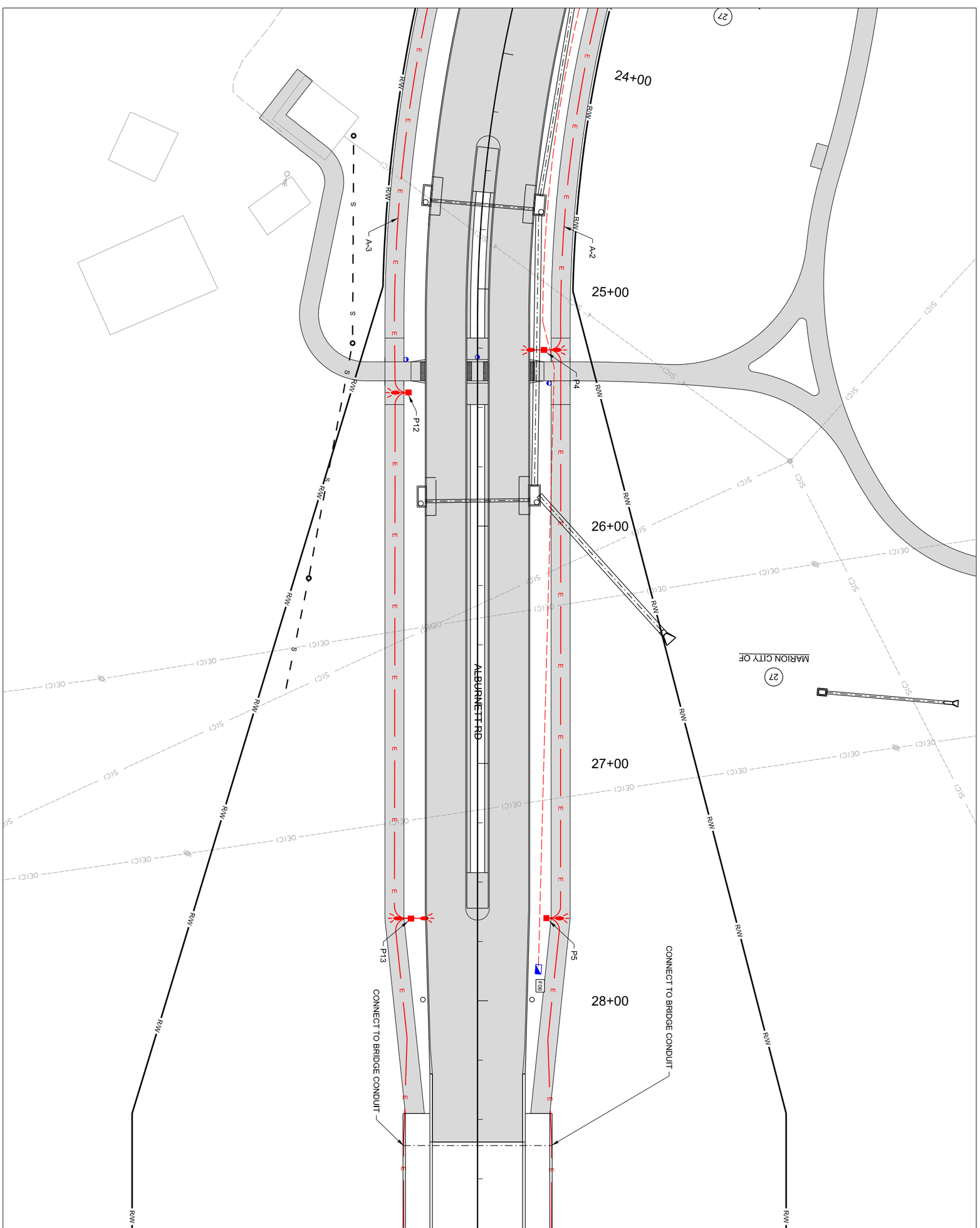
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Project No: HDP-4775(646)--71-57

Sheet P.2

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ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

LIGHTING LAYOUT

CITY OF MARION, IOWA

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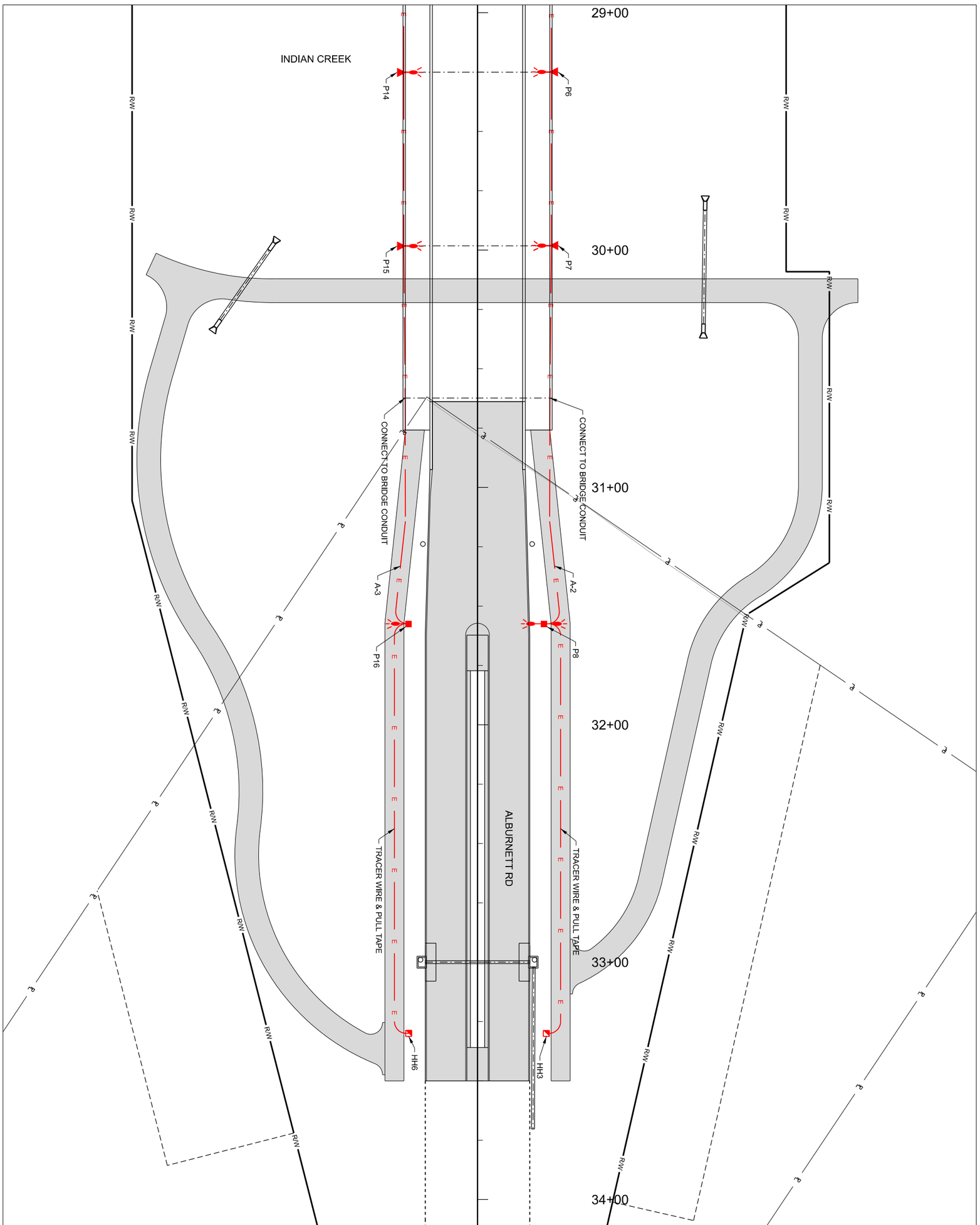
DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
		5/13/2026	

Engineer: AJB | Checked By: TPM
Technician: KMM | Date: 5/8/2026 | Field Bk: | Pg:

Project No: HDP-4775(646)--71-57 | Sheet P.3

Sheet P.3
Project No: HDP-4775(646)--71-57



ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

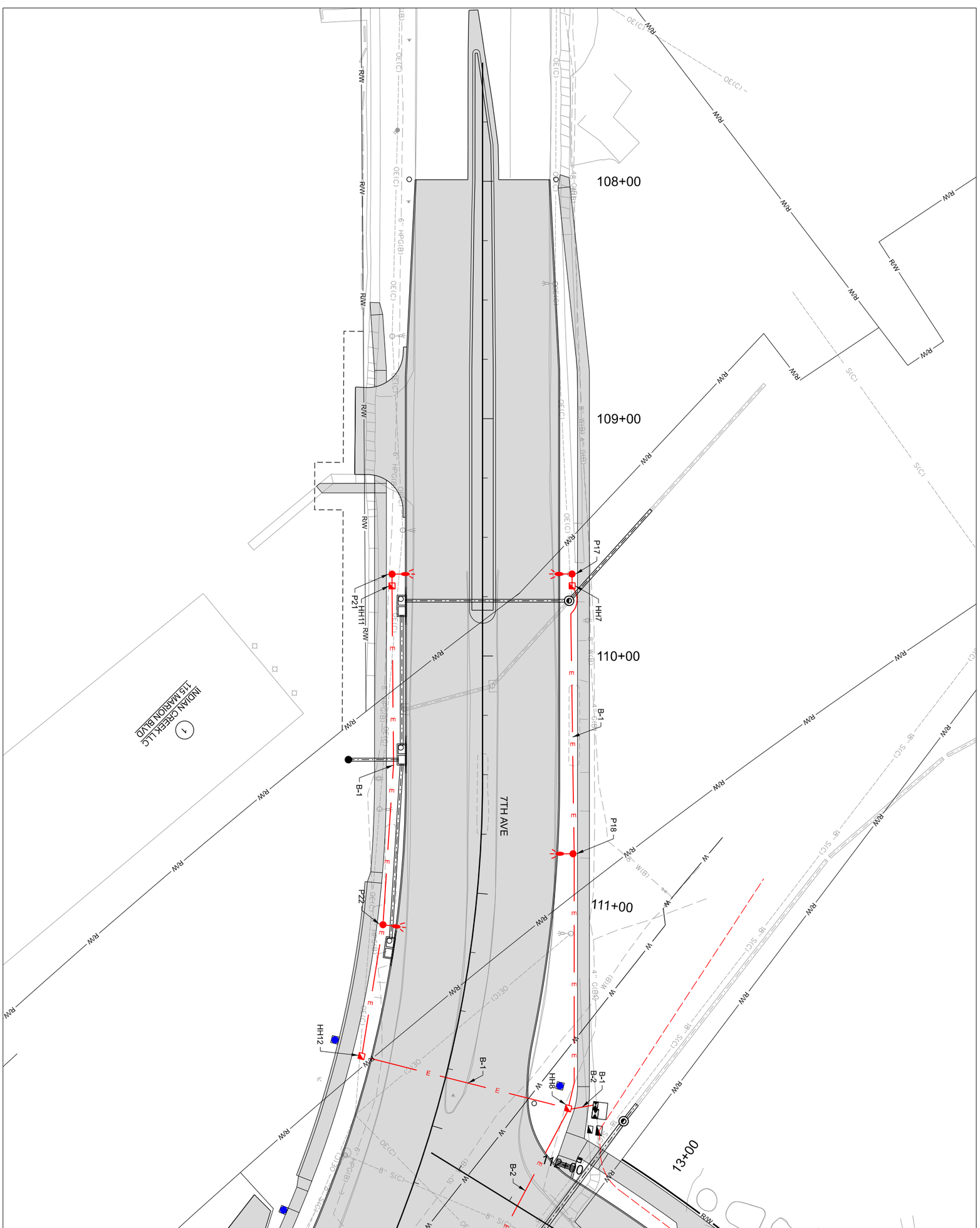
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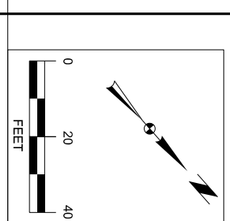
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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
			5/13/2026
MARK	REVISION	DATE	BY
Engineer: AJB	Checked By: TPM		
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:
Project No: HDP-4775(646)--71-57		Sheet	P.4

Sheet P.4
Project No: HDP-4775(646)--71-57





LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- HANDHOLE
- COMBINATION ROADWAY AND TRAIL POLE AND LIGHTS
- TRAIL POLE AND LIGHT
- ROADWAY POLE AND LIGHT
- BRIDGE POLE AND LIGHT
- LIGHTING CONDUIT

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ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

LIGHTING LAYOUT

CITY OF MARION, IOWA

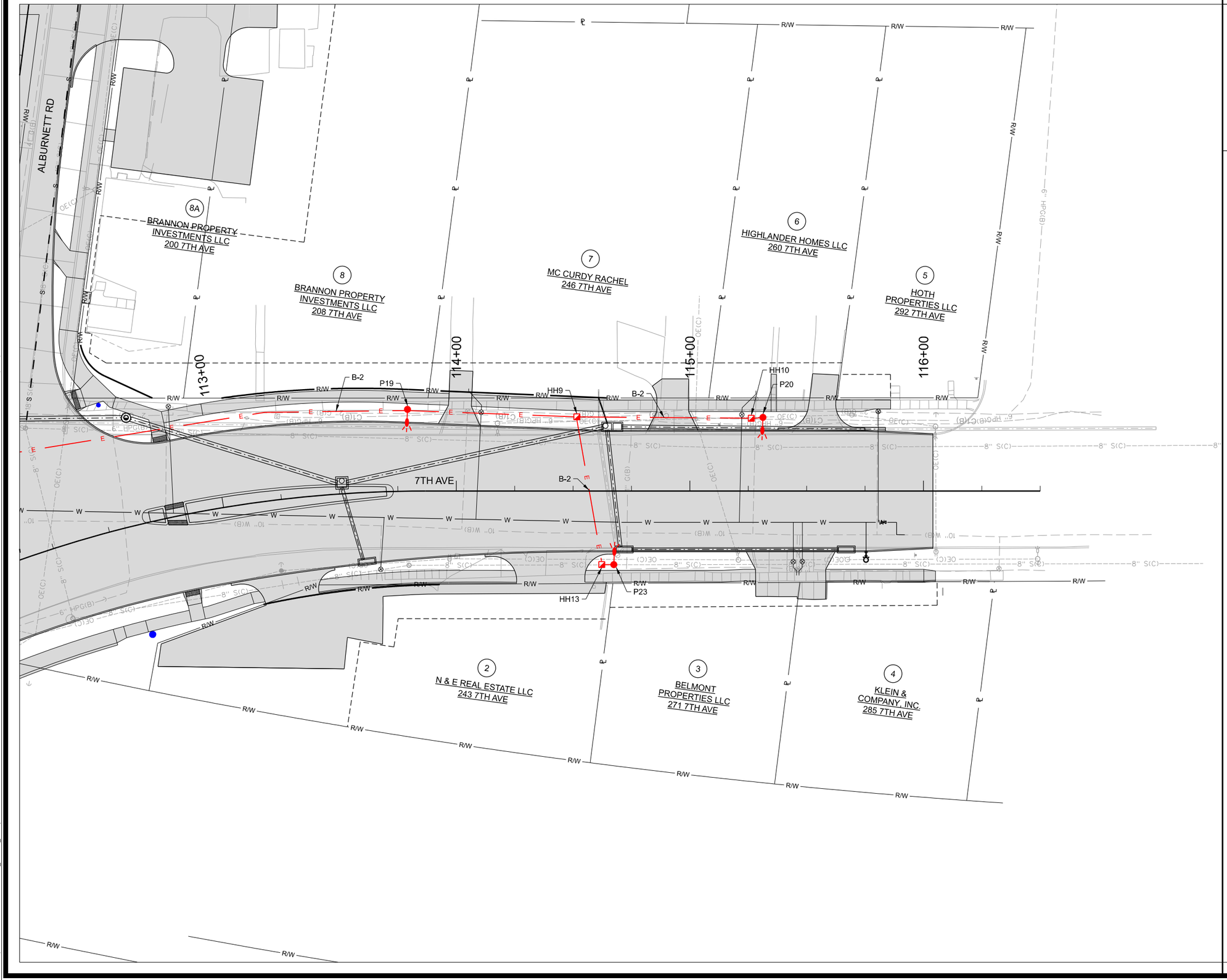
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Engineer: AJB	Checked By: TPM		
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:
Project No: HDP-4775(646)--71-57		Sheet	P.5

Sheet P.5

Project No: HDP-4775(646)--71-57

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LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- HANDHOLE
- COMBINATION ROADWAY ANDTRAIL POLE AND LIGHTS
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MARK	REVISION	DATE	BY
		5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: AJB | Checked By: TPM | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: HDP-4775(646)--71-57

Sheet P.6

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

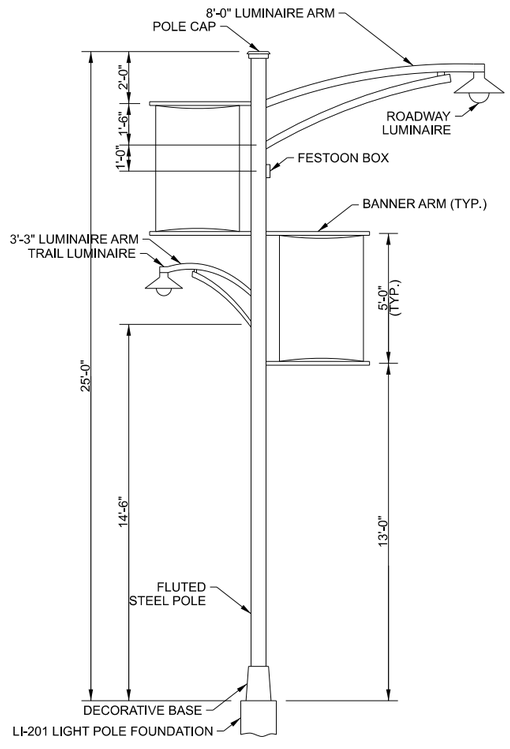
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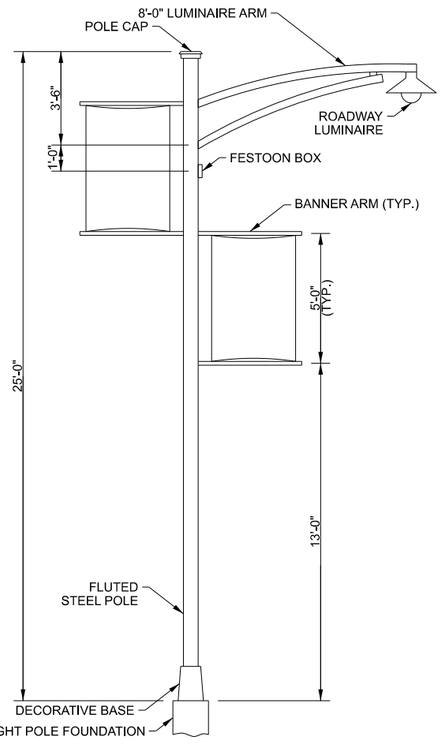
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Project No: HDP-4775(646)--71-57

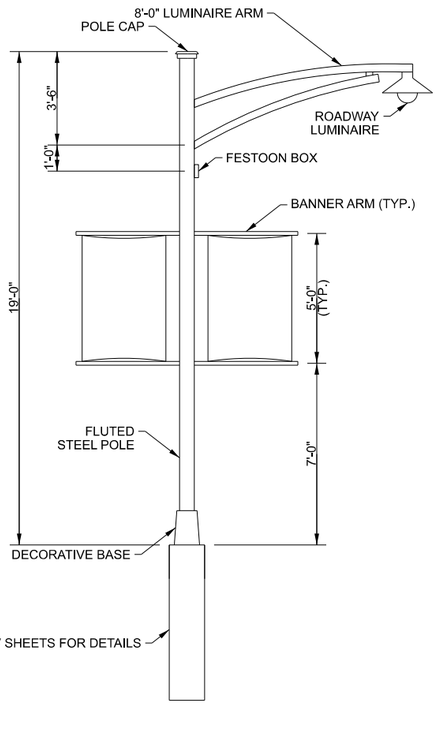
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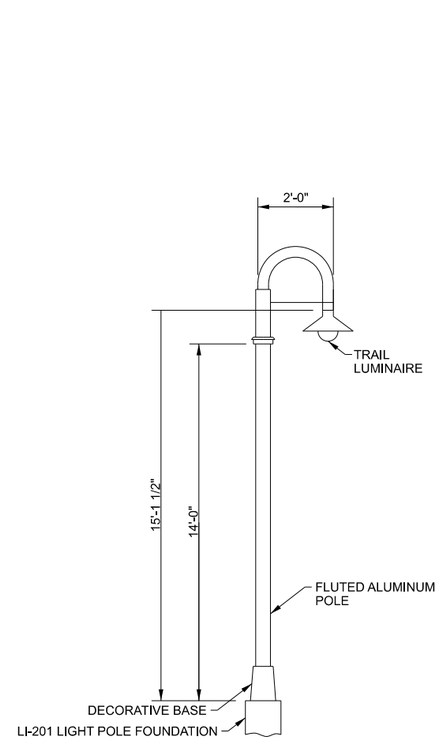
COMBINATION ROADWAY AND TRAIL POLE



ROADWAY POLE



BRIDGE POLE



TRAIL POLE

1 / P.7 LIGHT POLE DETAILS
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
		5/13/2026	

Engineer: AJB | Checked By: TPM | T-R-S:
Technician: KMM | Date: 5/8/2026
Project No: HDP-4775(646)--71-57 | Sheet P.7

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

LIGHTING DETAILS

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Project No: HDP-4775(646)--71-57

Sheet P.7

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108-11A
08-01-08

HIGHWAY LIGHTING DATA

LIGHT POLES SHALL BE VALMONT CITY OF MARION STANDARD POLES WITH BLACK FINISH.

ROADWAY LUMINAIRES SHALL BE ALUMILITE VK 5100 LED SERIES, 110W, TYPE 3, 4000K, BLACK FINISH.

TRAIL LUMINAIRES SHALL BE ALUMILITE VK 5100 LED SERIES, 55W, TYPE 3, 4000K, BLACK FINISH.

FURNISH AND INSTALL 1-GANG EXTRA DUTY NON-METALIC WHILE-IN-USE WEATHERPROOF RECEPTACLE COVER AND 15 AMPERE GFCI AT EACH POLE FESTOON BOX IN COMBINATION, ROADWAY AND BRIDGE POLES.

FURNISH AND INSTALL 100 AMP ELECTRICAL PANEL IN 7TH AVE AND 8TH AVE POWER SERVICE CABINET (SEE N-SHEETS).
PROVIDE NECESSARY CABINET EQUIPMENT AT EACH LOCATION INCLUDING THE FOLLOWING:
- PHOTOCELL MOUNTED FLUSH ON CABINET
- PHOTOCELL BYPASS SWITCH
- PROGRAMMABLE ELECTRONIC TIME SWITCH FOR USE WHEN PHOTOCELL BYPASS IS ACTIVE
- 3-POSTION CONTROL TEST SWITCH (AUTO, OFF, MANUAL)
- LINE BREAKER AND BRANCH CIRCUIT BREAKERS
- CONTROL FUSE
- SURGE PROTECTION DEVICE
- CONTACTORS

PROVIDE SEPARATE POWER FEEDS FROM METER TO LIGHTING PANEL AND TO TRAFFIC SIGNAL CONTROLLER CABINET.

ALL CONDUITS SHALL BE SCHEDULE 80 PVC OR DIRECTIONALLY BORED HDPE SDR 13.5.

PROVIDE #10 TRACER WIRE AND PULL TAPE IN EACH CONDUIT RUN

ENSURE THAT POWER IS CONNECTED TO THE GCFI ON LIGHT POLES

CONNECTORS:
L-1 CONNECTORS IN POLE BASES AT END OF CIRCUIT POLES, FUSED AT 5 AMPERES.
Y-1 CONNECTORS IN POLE BASES AT MID CIRCUIT POLES, FUSED AT 20 AMPERES.
Y-3 CONNECTORS IN HANDHOLES AS NEEDED FOR TAP CONNECTIONS, UNFUSED.

108-2A
08-01-08

LISTING OF LIGHTING AND SIGNAL WORK

Handholes			Conduits						
No.	Station	Type	Line No.	Location From	Location To	Conduit Type	Dia. IN	Length	Notes
HH1	14+61	II	A-1	HH1	P1	PVC	2.0	8.0	
HH2	19+64	II	A-1	HH1	HH4	PVC	2.0	60.0	
HH3	33+30	II	A-1	HH1	CABINET	PVC	2.0	160.0	
HH4	14+69	II	A-1	HH4	P9	PVC	2.0	8.0	
HH5	19+64	II	--	CABINET	HH2	PVC	3.0	342.0	LINE A-2 AND A-3
HH6	33+30	II	A-3	HH2	HH5	PVC	2.0	60.0	
HH7	109+71	II	A-3	HH5	P10	PVC	2.0	8.0	
HH8	111+79	II	A-2	HH2	P3	PVC	2.0	266.0	
HH9	114+52	II	A-2	P3	P4	PVC	2.0	292.0	
HH10	115+26	II	A-2	P4	P5	PVC	2.0	236.0	
HH11	109+70	II	A-2	P5	BRIDGE	PVC	2.0	95.0	
HH12	111+79	II	A-2	BRIDGE	P8	PVC	2.0	95.0	
HH13	114+62	II	--	P8	HH3	PVC	2.0	171.0	TRACER AND PULL TAPE ONLY
			A-3	HH5	P11	PVC	2.0	274.0	
			A-3	P11	P12	PVC	2.0	411.0	
			A-3	P12	P13	PVC	2.0	216.0	
			A-3	P13	BRIDGE	PVC	2.0	95.0	
			A-3	BRIDGE	P16	PVC	2.0	95.0	
			--	P16	HH6	PVC	2.0	171.0	TRACER AND PULL TAPE ONLY
			B-1	HH7	P17	PVC	2.0	5.0	
			B-1	P17	P18	PVC	2.0	117.0	
			B-1	P18	HH8	PVC	2.0	106.0	
			--	HH8	CABINET	PVC	3.0	11.0	LINE B-1 AND B-2
			B-1	HH8	HH12	PVC	2.0	90.0	
			B-1	P21	HH11	PVC	2.0	5.0	
			B-1	HH11	P22	PVC	2.0	141.0	
			B-1	P22	HH12	PVC	2.0	56.0	
			B-2	HH8	P19	PVC	2.0	215.0	
			B-2	P19	HH9	PVC	2.0	71.0	
			B-2	HH9	HH10	PVC	2.0	74.0	
			B-2	HH10	P20	PVC	2.0	5.0	
			B-2	HH9	HH13	PVC	2.0	64.0	
			B-2	HH13	P23	PVC	2.0	5.0	

108-12
10-21-14

WIRE, CABLE AND CONNECTORS

Circuit Number	Connectors								Phase Lines								Ground		Remarks
	Type	Quan. No.	Type	Quan. No.	Type	Quan. No.	Type	Quan. No.	Size A.W.G.	Quan. LF	Size A.W.G.	Quan. LF	Size A.W.G.	Quan. LF	Size A.W.G.	Quan. LF	Size A.W.G.	Quan. LF	
A-1	L-1	4			Y-3	2			4	500.0							4	250.0	
A-1											10	190.0					6	30.0	IN POLES, LIGHTING AND OUTLETS
A-2	L-1	4	Y-1	10	Y-3	2			4	5570.0							4	1400.0	
A-2											10	760.0					6	110.0	IN POLES, LIGHTING AND OUTLETS
A-3	L-1	4	Y-1	10	Y-3	2			4	6020.0							4	1150.0	
A-3											10	640.0					6	90.0	IN POLES, LIGHTING AND OUTLETS
B-1	L-1	4	Y-1	4	Y-3	2			4	2230.0							4	560.0	
B-1											10	450.0					6	90.0	IN POLES, LIGHTING AND OUTLETS
B-2	L-1	4	Y-1	2	Y-3	2			4	1870.0							4	460.0	
B-2											10	340.0					6	70.0	IN POLES, LIGHTING AND OUTLETS

108-1
10-21-14

LIGHTING INSTALLATIONS

Location No.	Location Station	LI-101 Type	LI-101 A	LI-101 E FT	LI-201 Type	Remarks
P1	14+55	4		7.0	A	TRAIL POLE
P2	19+55	4		6.0	A	COMBO POLE
P3	22+35	4		7.0	A	TRAIL POLE
P4	25+27	4		6.0	A	COMBO POLE
P5	27+65	4		7.0	A	TRAIL POLE
P6	29+25	5				BRIDGE POLE
P7	29+98	5				BRIDGE POLE
P8	31+57	4		6.0	A	COMBO POLE
P9	14+77	4		6.0	A	COMBO POLE
P10	19+56	4		7.0	A	TRAIL POLE
P11	22+36	4		6.0	A	COMBO POLE
P12	25+47	4		7.0	A	TRAIL POLE
P13	27+65	4		6.0	A	COMBO POLE
P14	29+25	5				BRIDGE POLE
P15	29+98	5				BRIDGE POLE
P16	31+57	4		7.0	A	TRAIL POLE
P17	109+65	4		5.0	A	ROADWAY POLE
P18	110+81	4		7.0	A	ROADWAY POLE
P19	113+80	4		5.0	A	ROADWAY POLE
P20	115+31	4		5.0	A	ROADWAY POLE
P21	109+65	4		5.0	A	ROADWAY POLE
P22	111+18	4		6.0	A	ROADWAY POLE
P23	114+67	4		5.0	A	ROADWAY POLE

NOTE: "E" MEASURED FROM BACK OF CURB TO CENTER OF FOUNDATION

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
Engineer: AJB		5/13/2026	
Technician: KMM	Checked By: TPM	T-R-S:	
	Date: 5/8/2026		

Project No: HDP-4775(646)--71-57

Sheet P.8

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

LIGHTING TABULATIONS

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: HDP-4775(646)--71-57

Sheet P.8

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PANEL A, 8TH AVE		VOLTS: 120/240		PHASE: 1			WIRE: 3			MAIN CAP: 100 AMPERES			
		AIC RATING: 22,000		GROUND BAR, TYPE WRITTEN PANEL, DIRECTORY, SERVICE RATED									
		MOUTING: SURFACE		FEEDER SIZE: SEE DIAGRAM						MAIN CONNECTION: BREAKER			
CCT NO	ITEM FED	LOAD WATTS	WIRE SIZE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	CIRCUIT BREAKER FRAME	NEUTRAL	CIRCUIT BREAKER FRAME	CIRCUIT BREAKER POLES	CIRCUIT BREAKER AMPS	WIRE SIZE	LOAD WATTS	ITEM FED	CCT NO
1	LIGHTING/OUTLET SOUTH	400	4	20	1	100	L1	100	1	20	4	825	LIGHTING NORTH W SIDE	2
3	LIGHTING NORTH E SIDE	715	4	20	1	100	L2	100	1	20	4	720	OUTLETS NORTH W SIDE	4
5	OUTLETS NORTH E SIDE	720	12	20	1	100	L1	100	1	20	12	200	TIME CLOCK	6
7	SPACE												SPACE	8
9	SPACE												SPACE	10
11	SURGE BREAKER/ ARRESTOR			20	2	100	L1						SPACE	12
13	22KA PER PHASE						L2						SPACE	14
15	SPACE												SPACE	16
17	SPACE												SPACE	18
19	SPACE												SPACE	20

PANEL B, 7TH AVE		VOLTS: 120/240		PHASE: 1			WIRE: 3			MAIN CAP: 100 AMPERES			
		AIC RATING: 22,000		GROUND BAR, TYPE WRITTEN PANEL, DIRECTORY, SERVICE RATED									
		MOUTING: SURFACE		FEEDER SIZE: SEE DIAGRAM						MAIN CONNECTION: BREAKER			
CCT NO	ITEM FED	LOAD WATTS	WIRE SIZE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	CIRCUIT BREAKER FRAME	NEUTRAL	CIRCUIT BREAKER FRAME	CIRCUIT BREAKER POLES	CIRCUIT BREAKER AMPS	WIRE SIZE	LOAD WATTS	ITEM FED	CCT NO
1	LIGHTING WEST	440	4	20	1	100	L1	100	1	20	4	330	LIGHTING EAST	2
3	OUTLETS WEST	720	4	20	1	100	L2	100	1	20	4	540	OUTLETS EAST	4
5	SPACE						L1	100	1	20	12	200	TIME CLOCK	6
7	SPACE												SPACE	8
9	SPACE												SPACE	10
11	SURGE BREAKER/ ARRESTOR			20	2	100	L1						SPACE	12
13	22KA PER PHASE						L2						SPACE	14
15	SPACE												SPACE	16
17	SPACE												SPACE	18
19	SPACE												SPACE	20

LIGHTING CIRCUITS	
CCT	CONDUCTORS
A-1	3#4 (1H, 1N, 1G), TRACER, PULL TAPE
A-2	5#4 (1H LIGHTING, 1H OUTLETS, 1N LIGHTING, 1N OUTLETS, 1G), TRACER, PULL TAPE
A-3	5#4 (1H LIGHTING, 1H OUTLETS, 1N LIGHTING, 1N OUTLETS, 1G), TRACER, PULL TAPE
B-1	5#4 (1H LIGHTING, 1H OUTLETS, 1N LIGHTING, 1N OUTLETS, 1G), TRACER, PULL TAPE
B-2	5#4 (1H LIGHTING, 1H OUTLETS, 1N LIGHTING, 1N OUTLETS, 1G), TRACER, PULL TAPE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
		5/13/2026	

Engineer: AJB | Checked By: TPM | T-R-S:
Technician: KMM | Date: 5/8/2026
Project No: HDP-4775(646)--71-57 | Sheet P.9

ALBURNETT ROAD EXTENSION -PHASE 1 FROM MARION BOULEVARD TO NORTH OF INDIAN CREEK AND BOYSON ROAD INTERSECTION IIMPROVEMENTS

CITY OF MARION, IOWA

LIGHTING TABULATIONS

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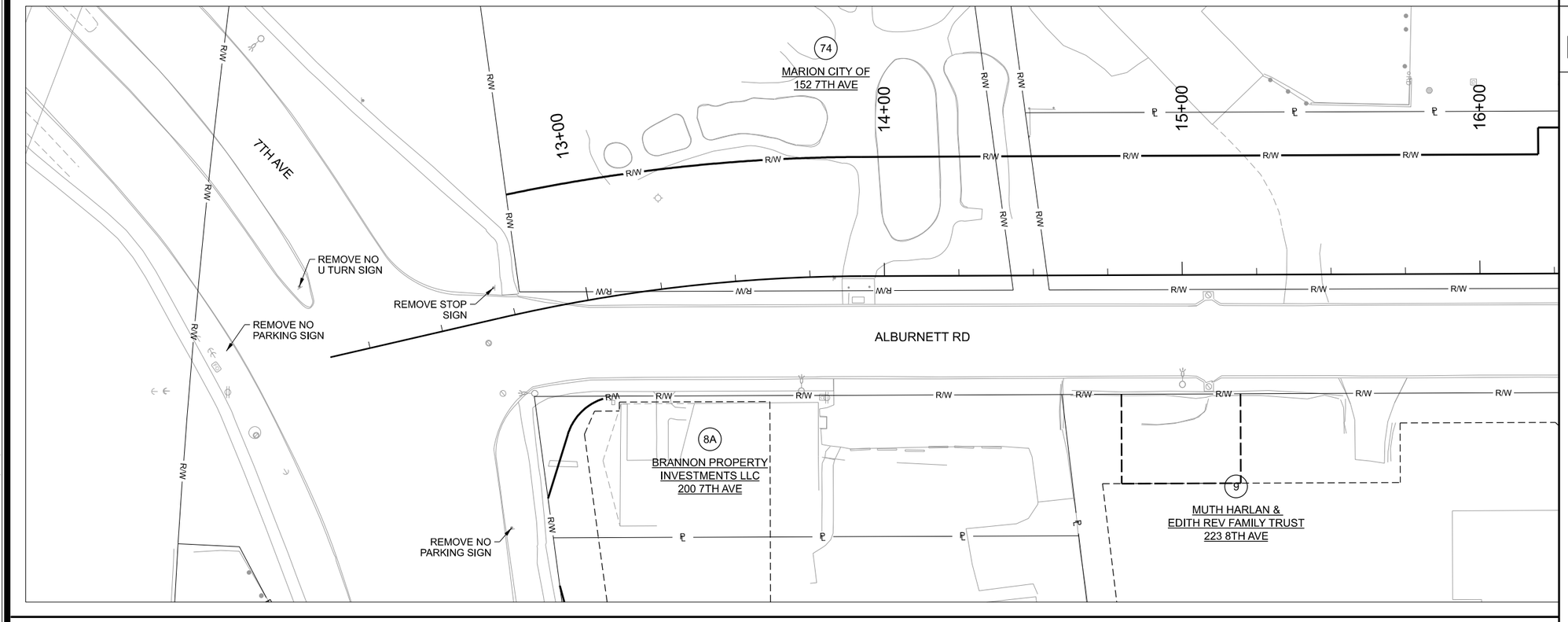
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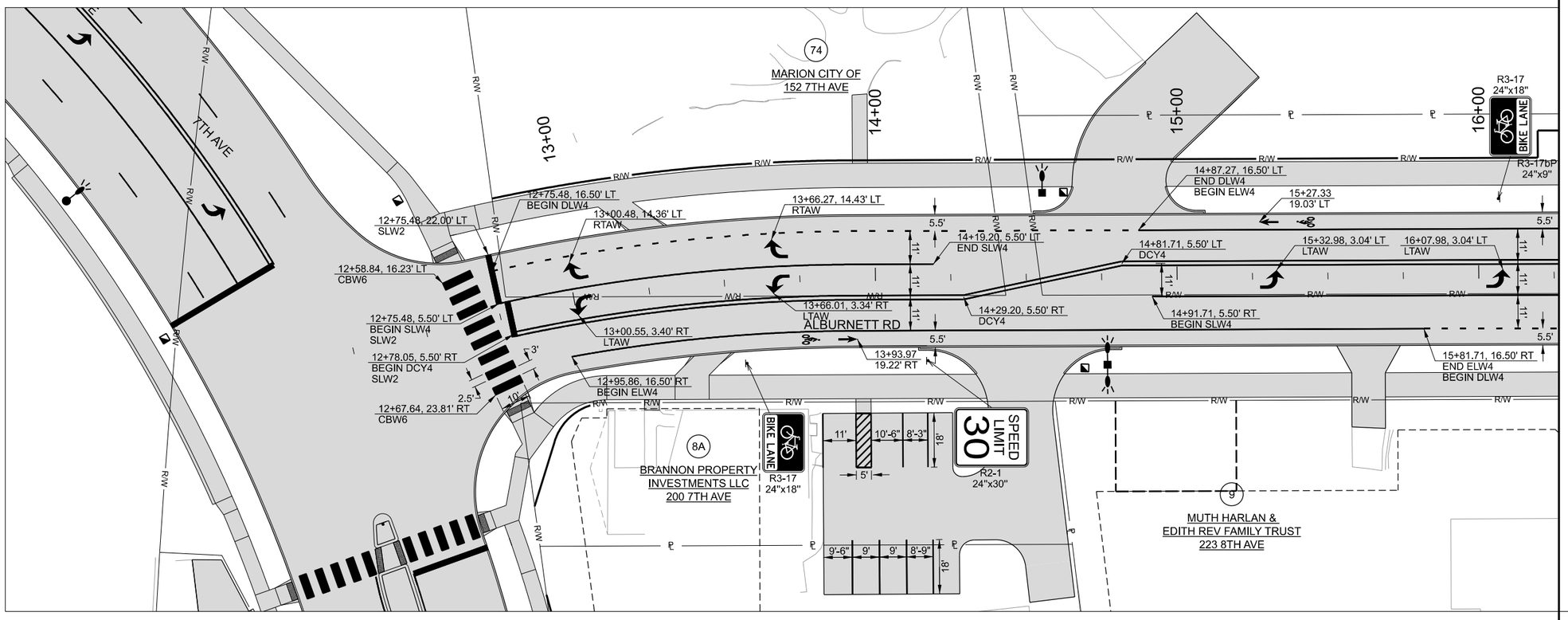
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Sheet P.9

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PROPOSED PAVEMENT IMPROVEMENTS

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet PM.1

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

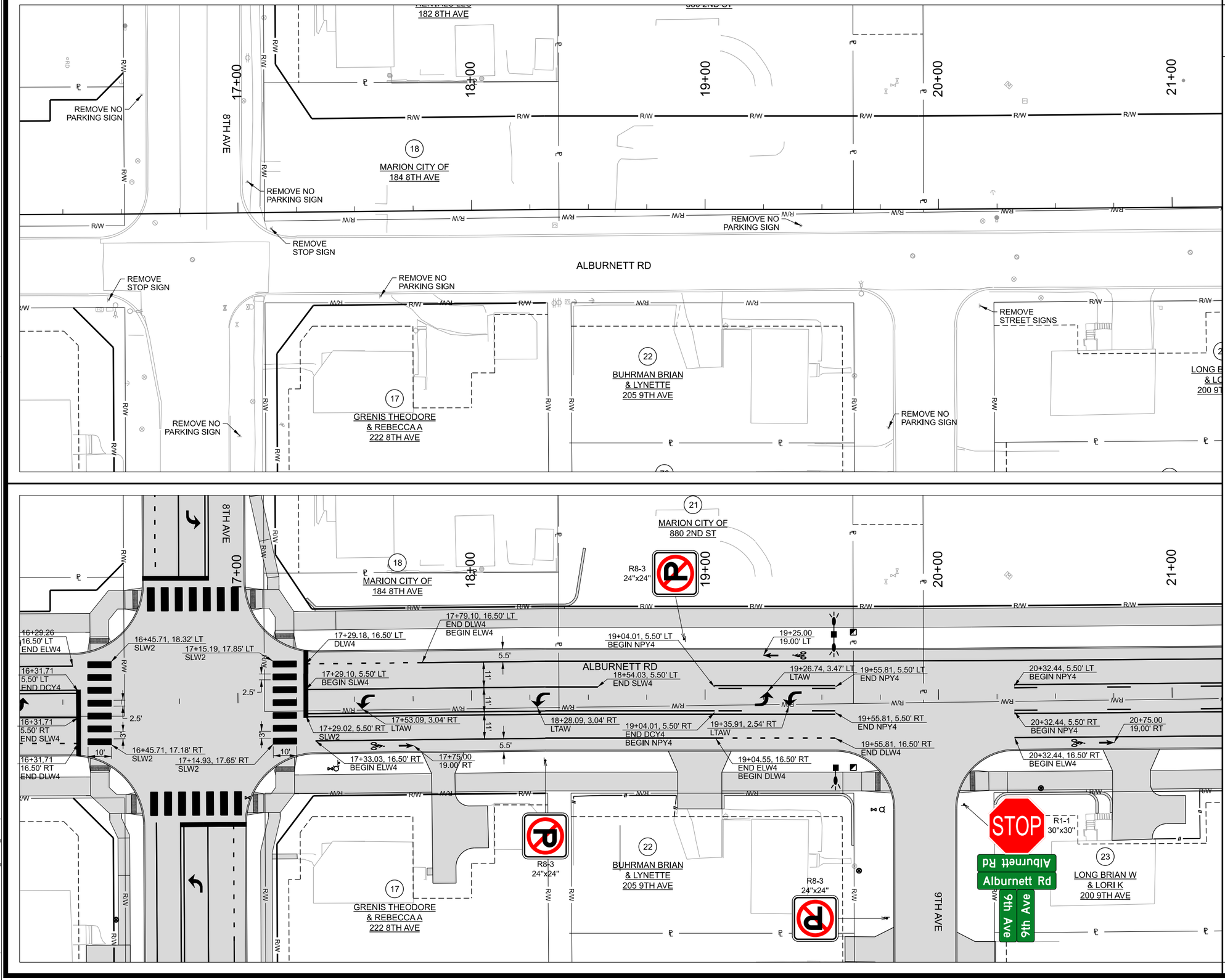
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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet PM.1

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS Field Bk:

Technician: KMM Date: 5/8/2026 Pg:

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Project No: 116.0663

Sheet PM.2

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

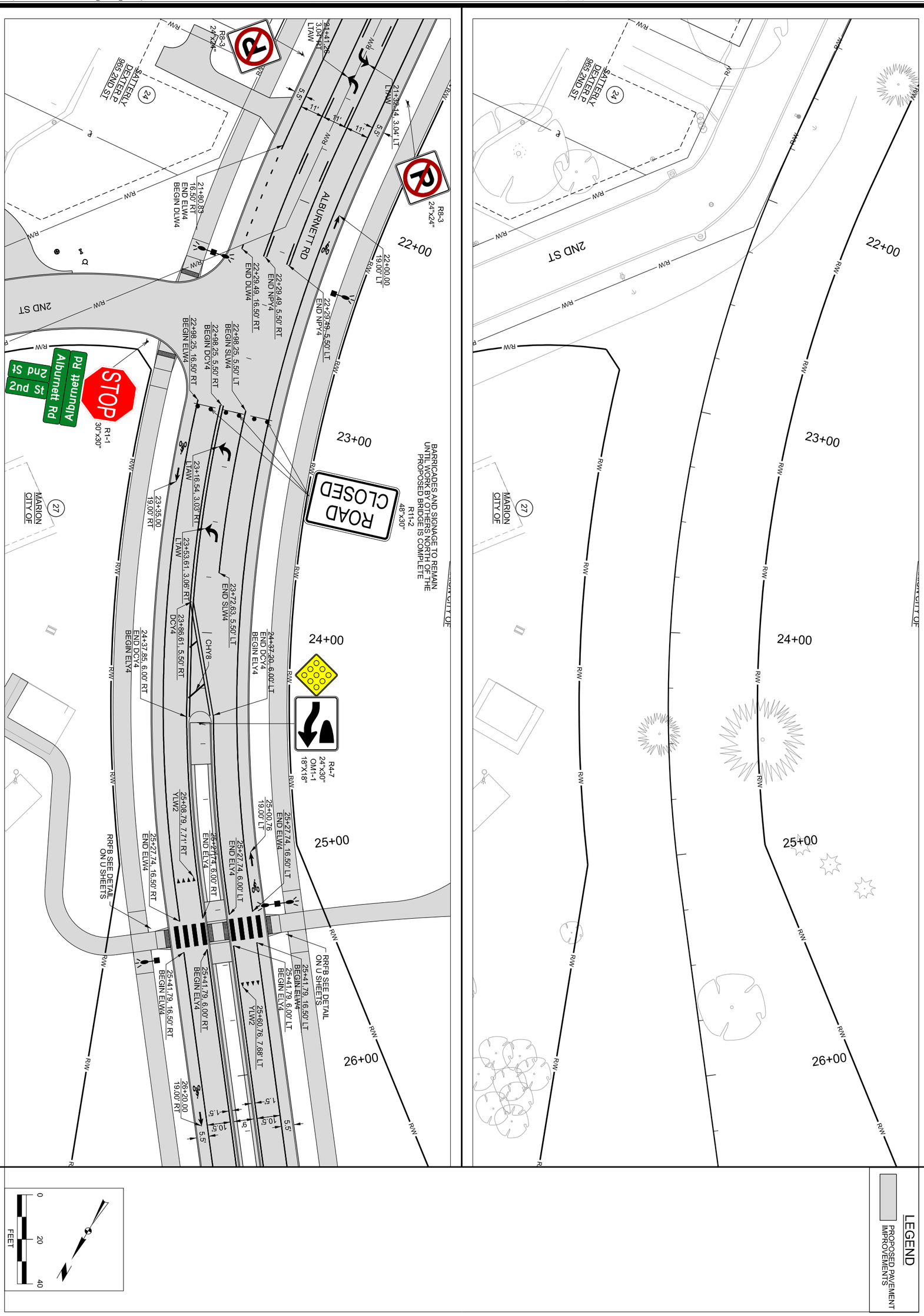
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Project No: 116.0663

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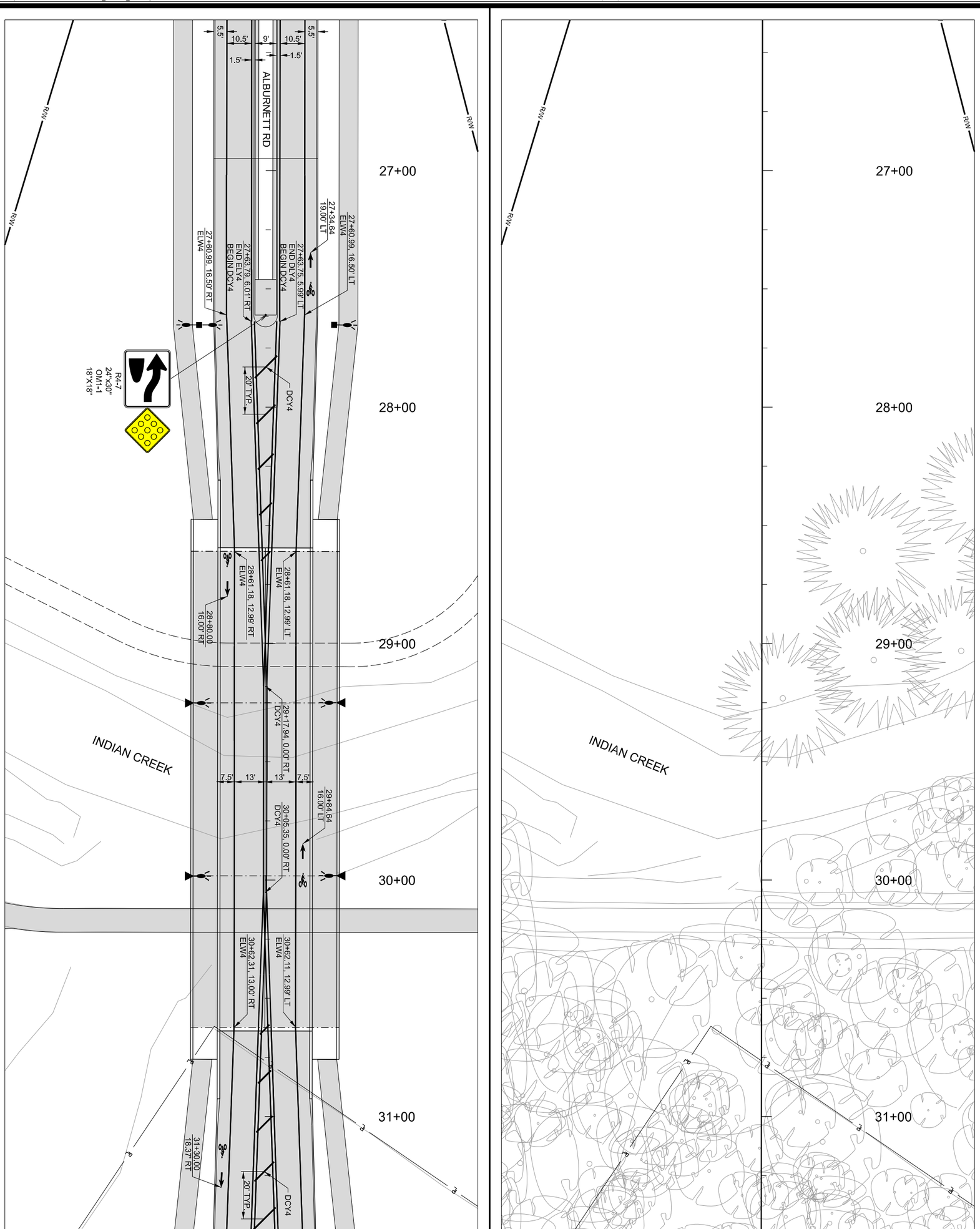
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE — **CITY OF MARION, IOWA**

DOT PROJECT NUMBER: HDP-4775(646)--71-57				
		FINAL PLANS	5/13/2026	
MARK		REVISION	DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:	
Project No: 116.0663		Sheet PM.3		

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Project No: 116.0663
Sheet PM.3



LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

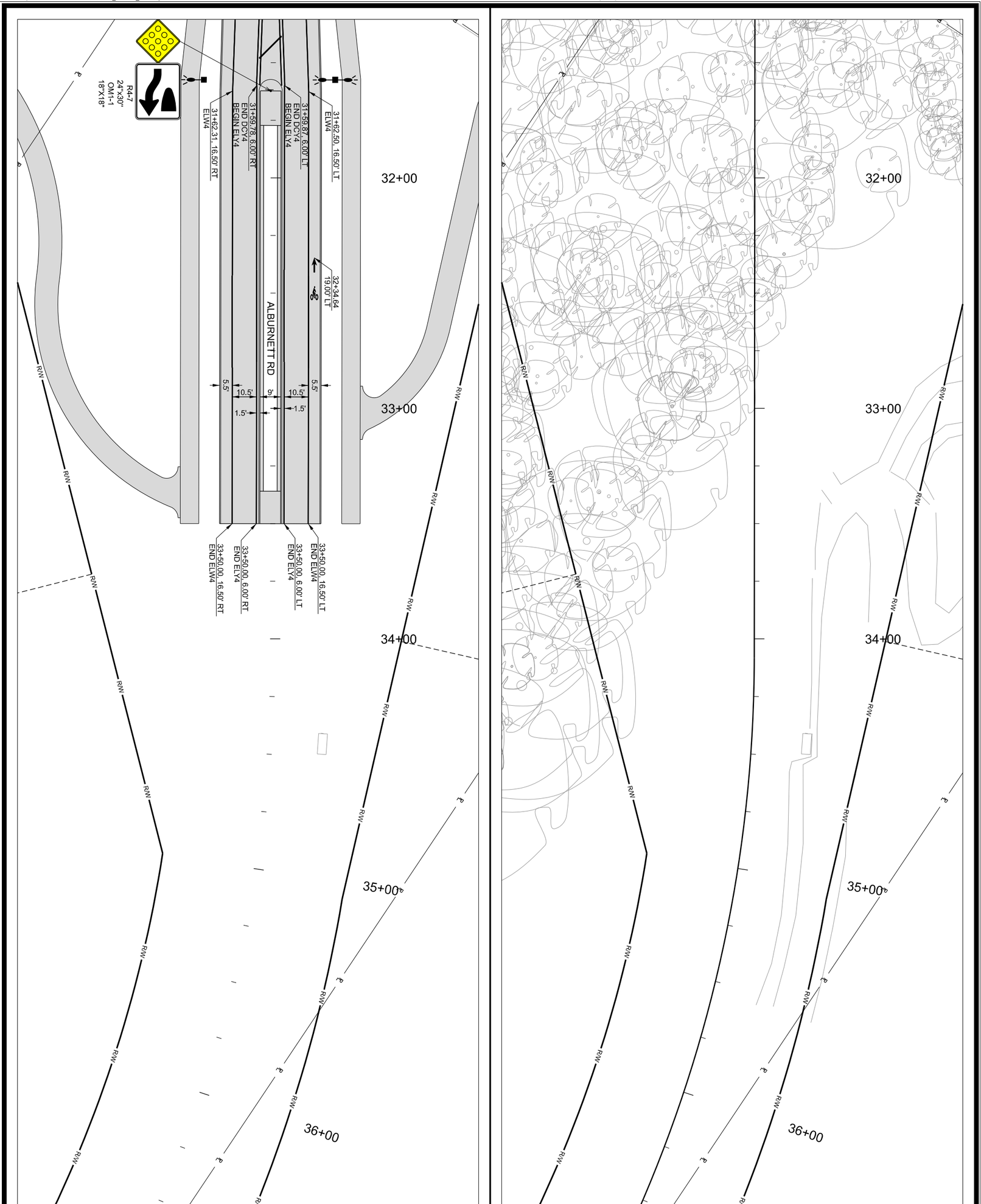
PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57	
FINAL PLANS	5/13/2026
MARK REVISION	DATE BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/8/2026
Field Bk:	Pg:
Project No: 116.0663	Sheet PM.4

Project No: 116.0663
Sheet PM.4



ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE — **CITY OF MARION, IOWA**

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION		DATE BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:
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Project No: 116.0663
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PROPOSED PAVEMENT IMPROVEMENTS

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet PM.6

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

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319-362-9394 | www.snyder-associates.com

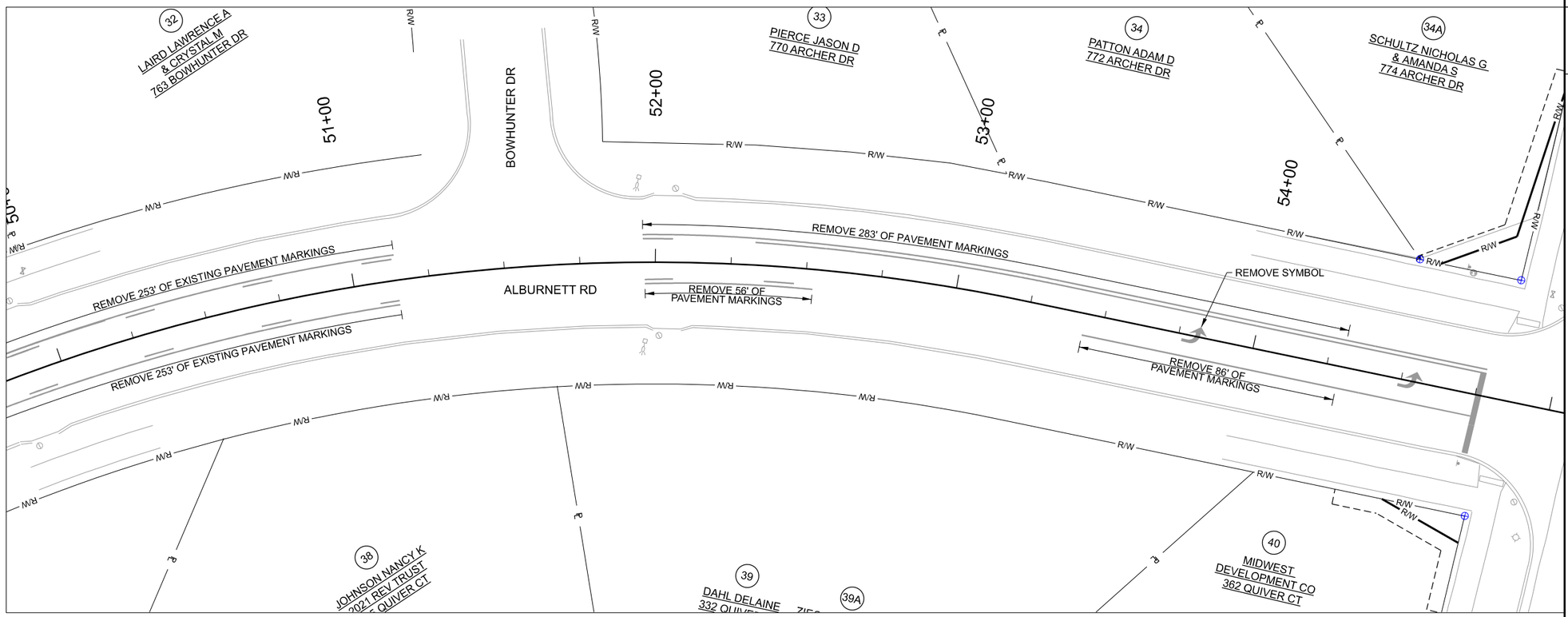
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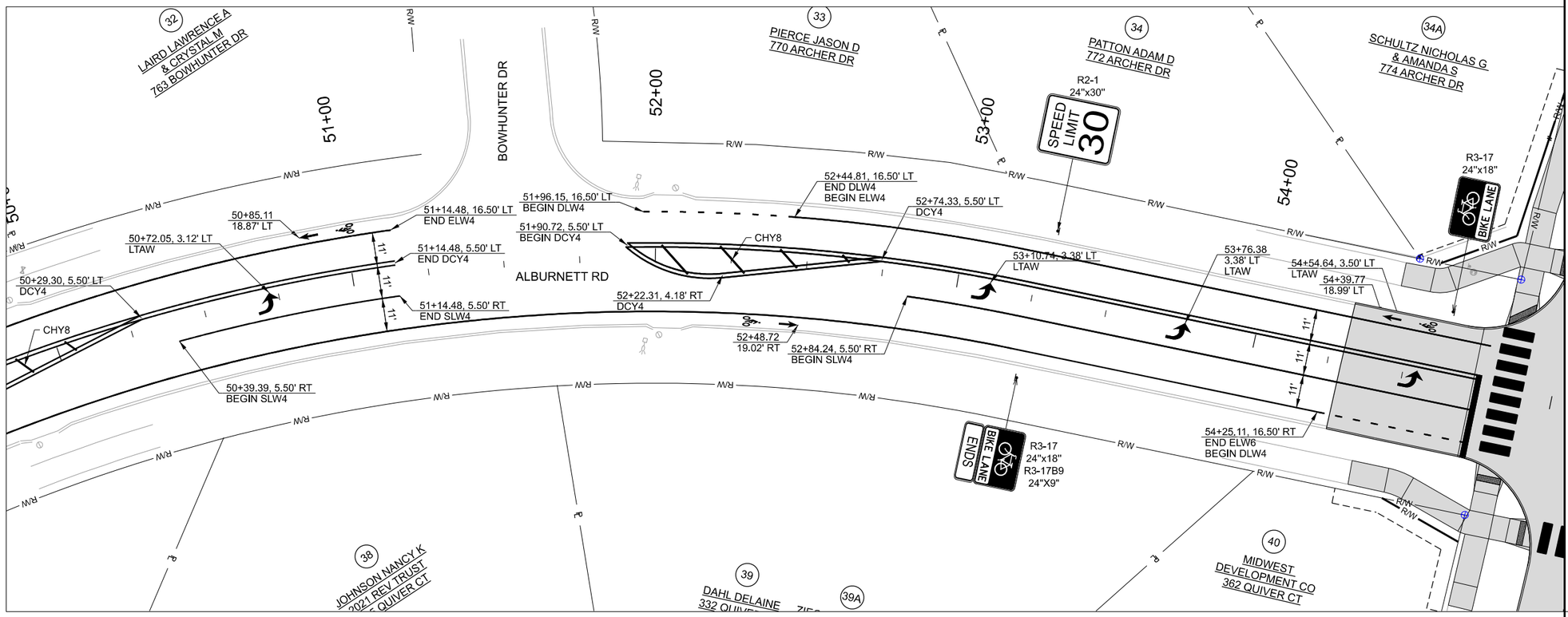
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PROPOSED PAVEMENT IMPROVEMENTS

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MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB Checked By: DMS Field Bk.: Pg.:
Technician: KMM Date: 5/8/2026

Project No: 116.0663

Sheet PM.7

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

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319-362-9394 | www.snyder-associates.com

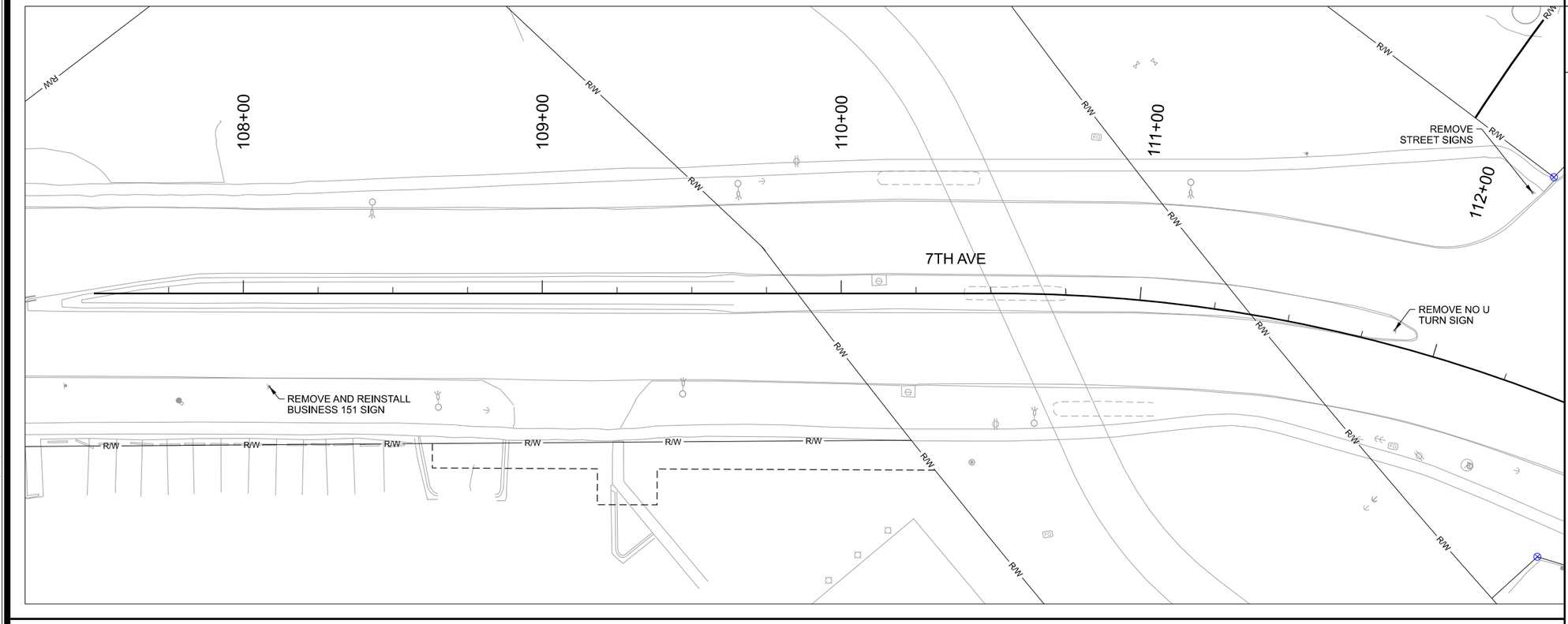
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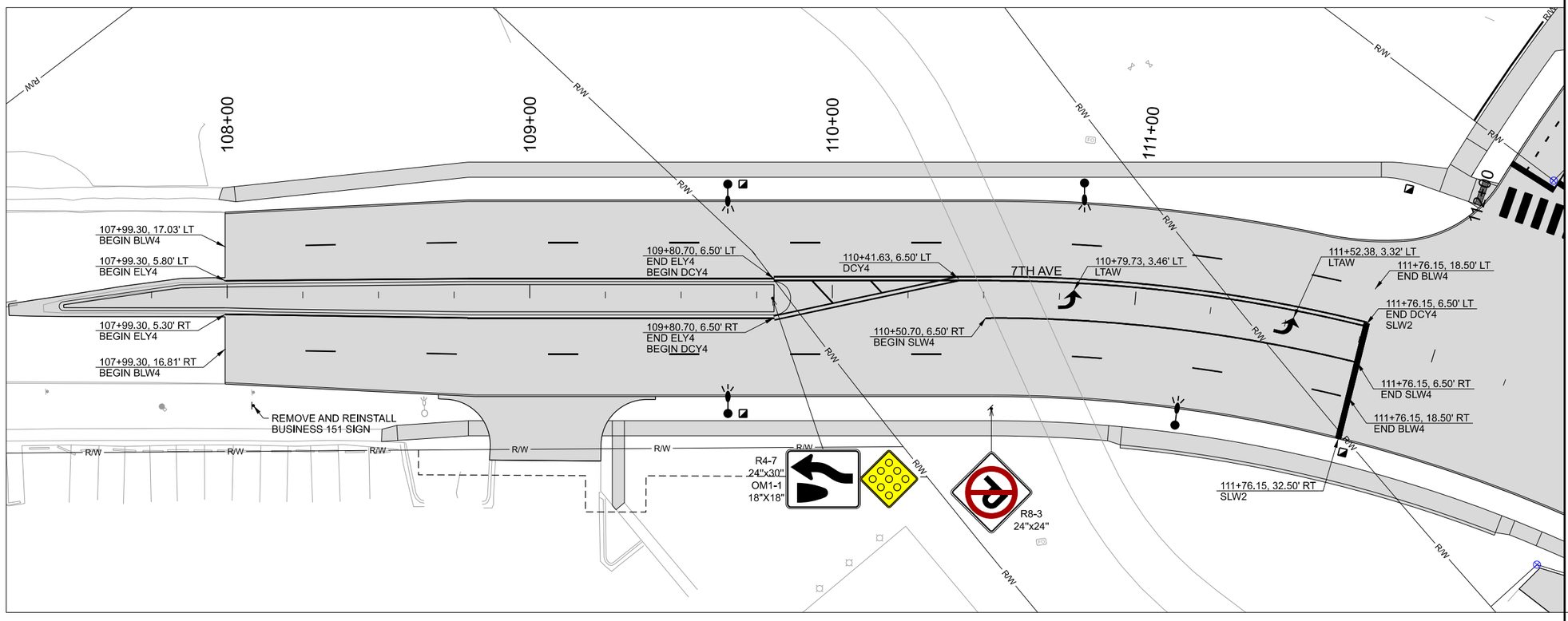
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PROPOSED PAVEMENT IMPROVEMENTS

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MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet PM.8

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

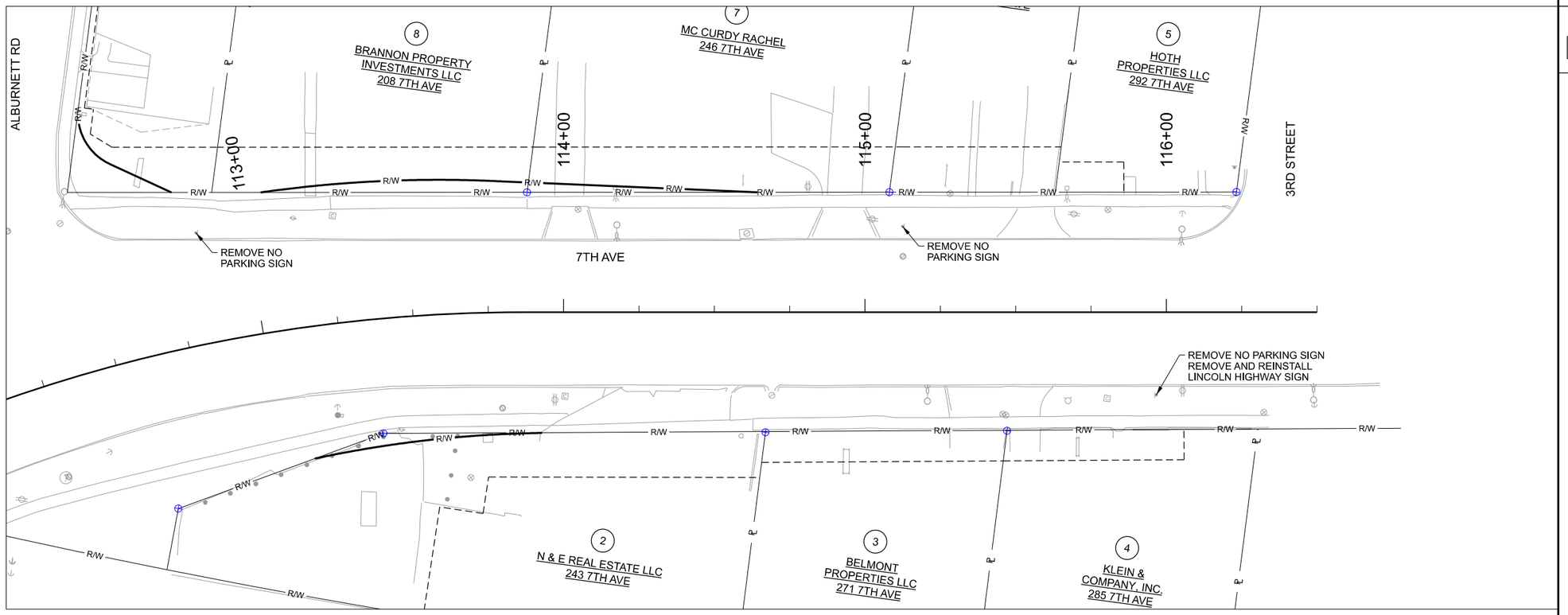
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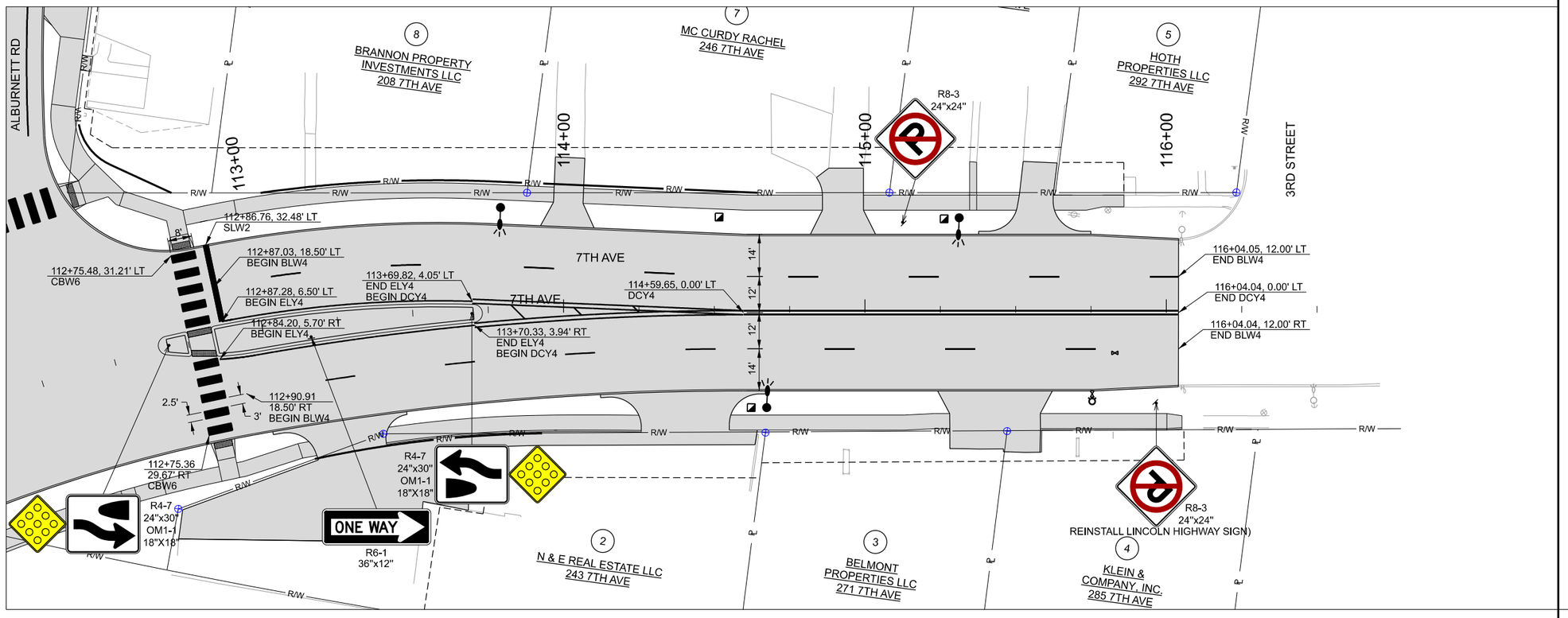
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Project No: 116.0663

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

0 20 40
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MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Project No: 116.0663

Sheet PM.9

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

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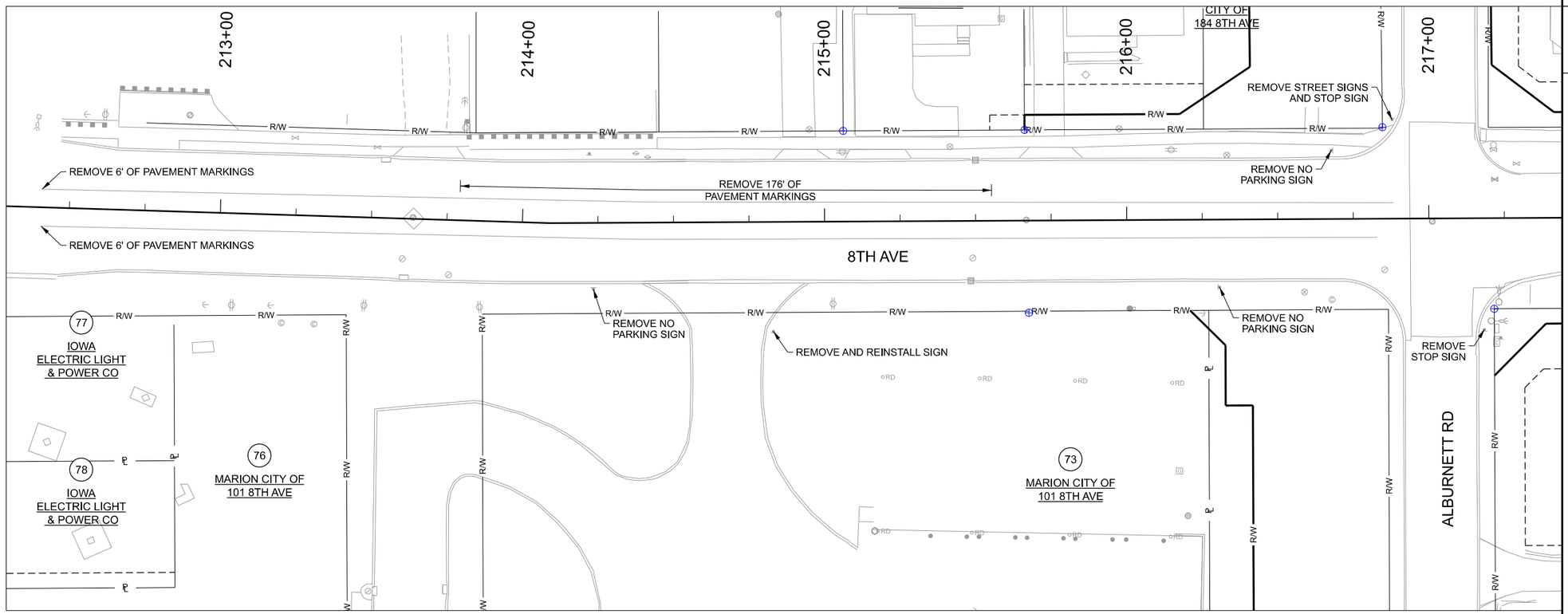
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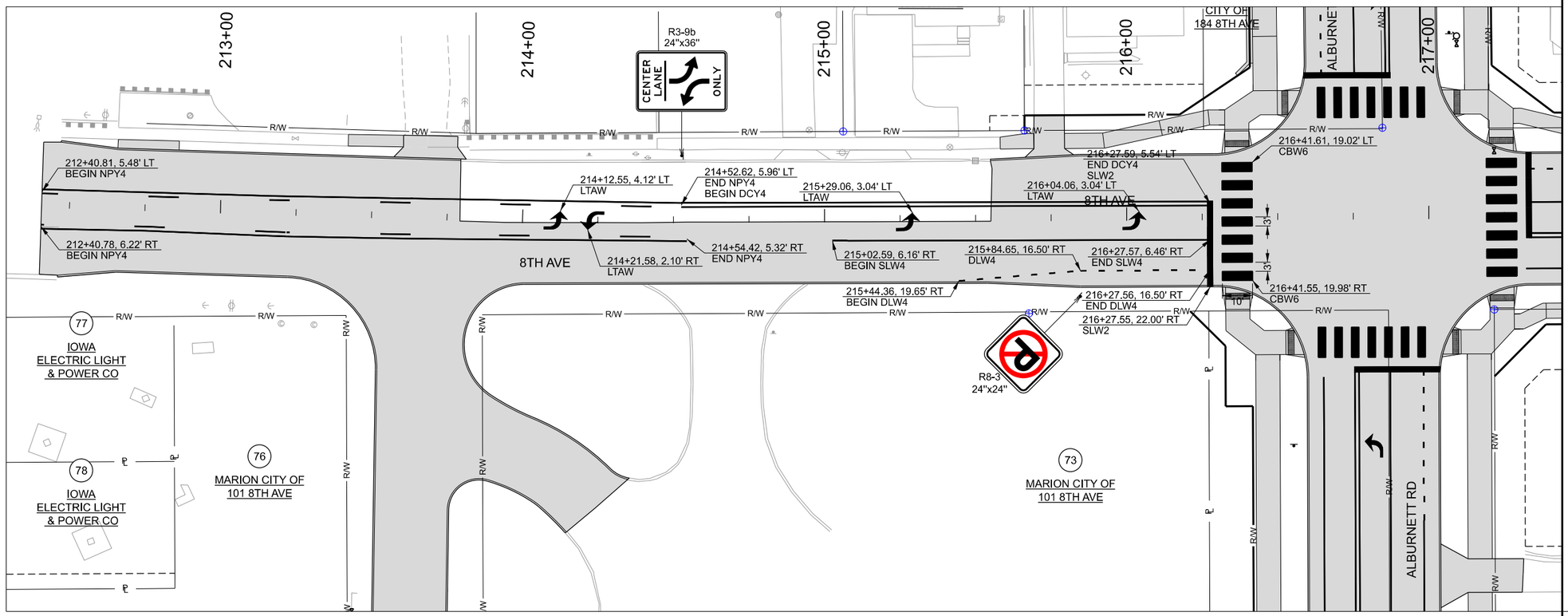
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PROPOSED PAVEMENT IMPROVEMENTS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet PM.10

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

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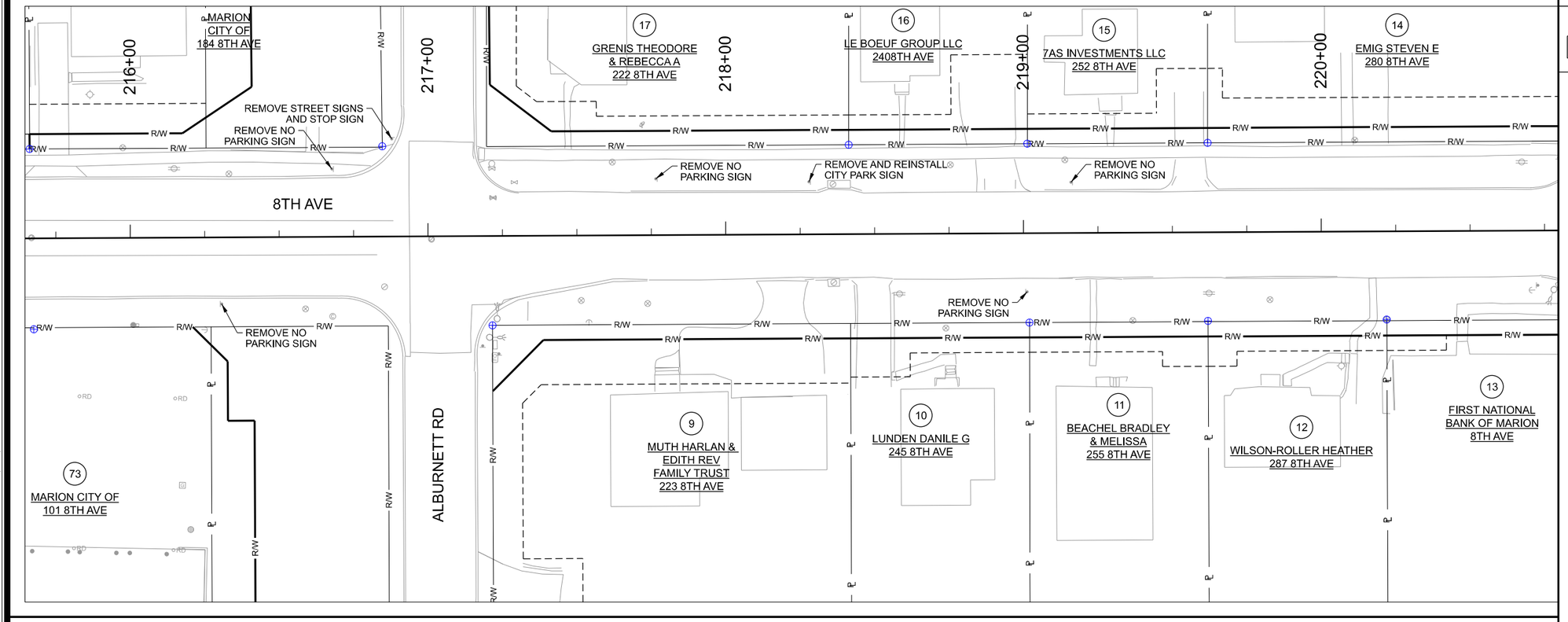
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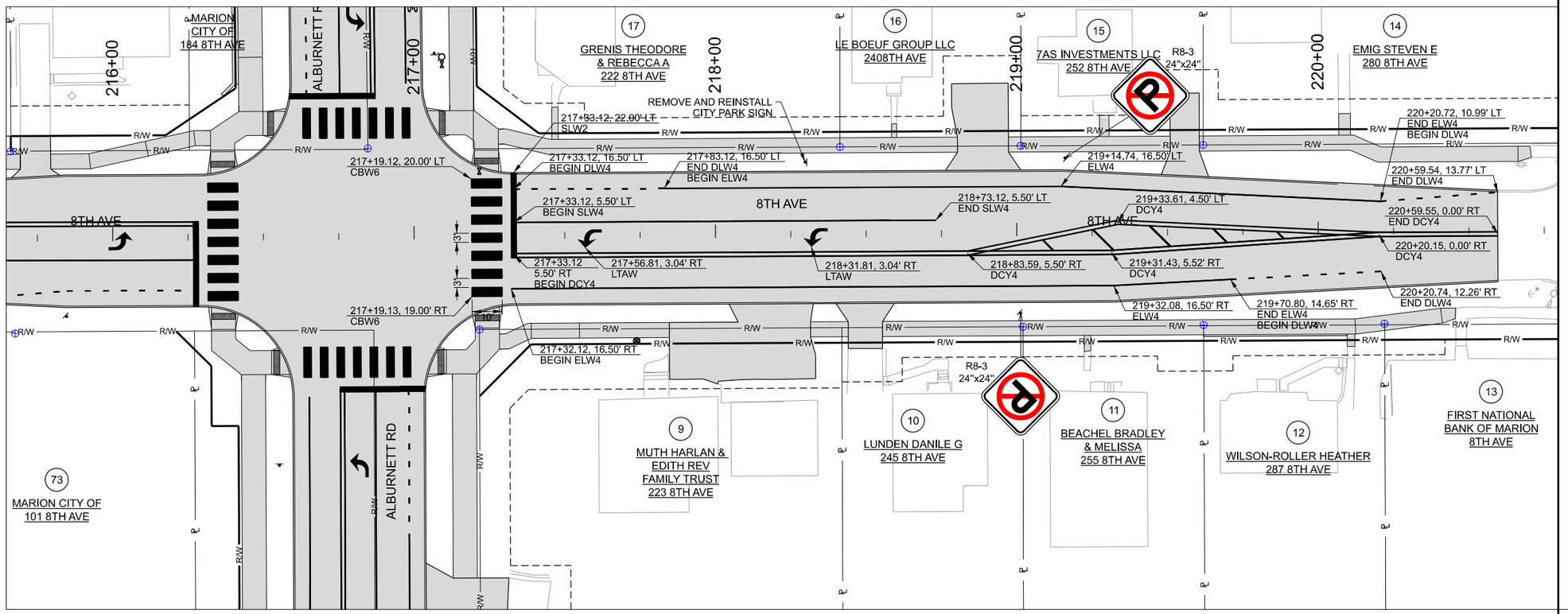
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PROPOSED PAVEMENT IMPROVEMENTS

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MARK	DATE	REVISION	BY
	5/13/2026	FINAL PLANS	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet PM.11

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

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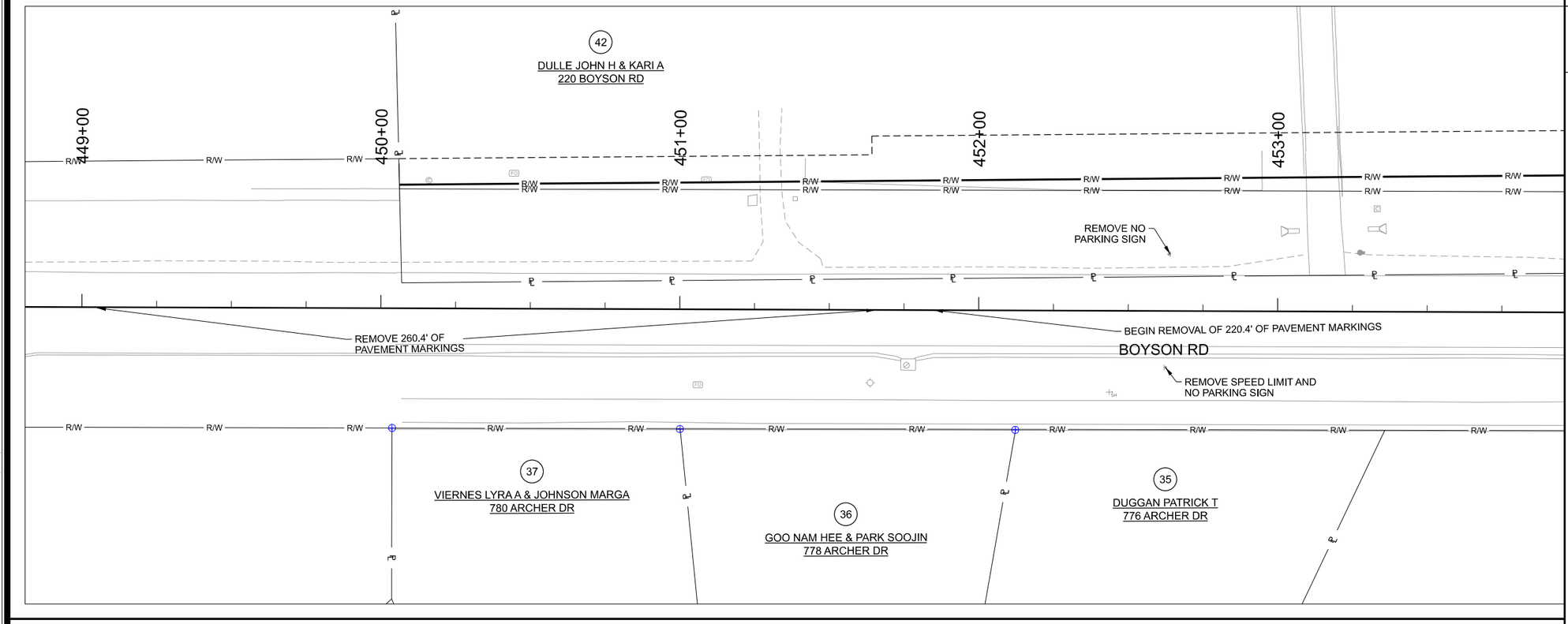
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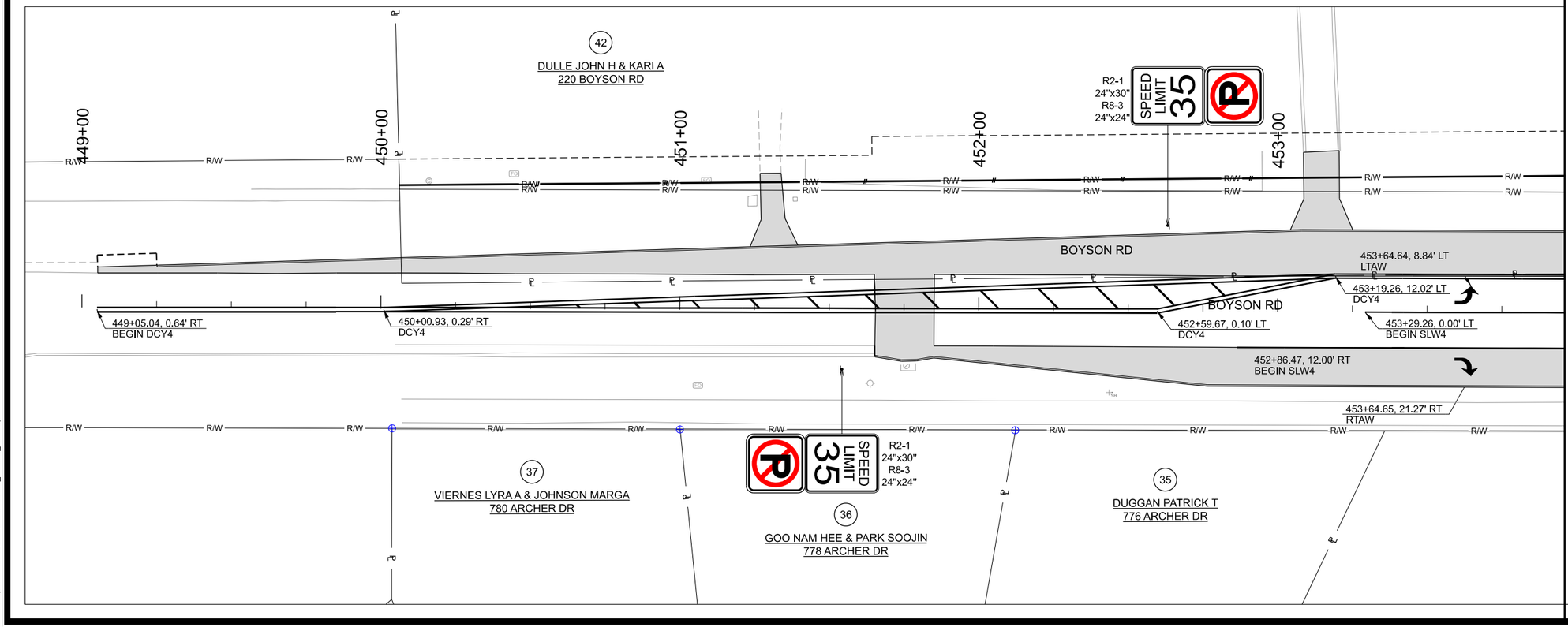
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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet PM.12

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

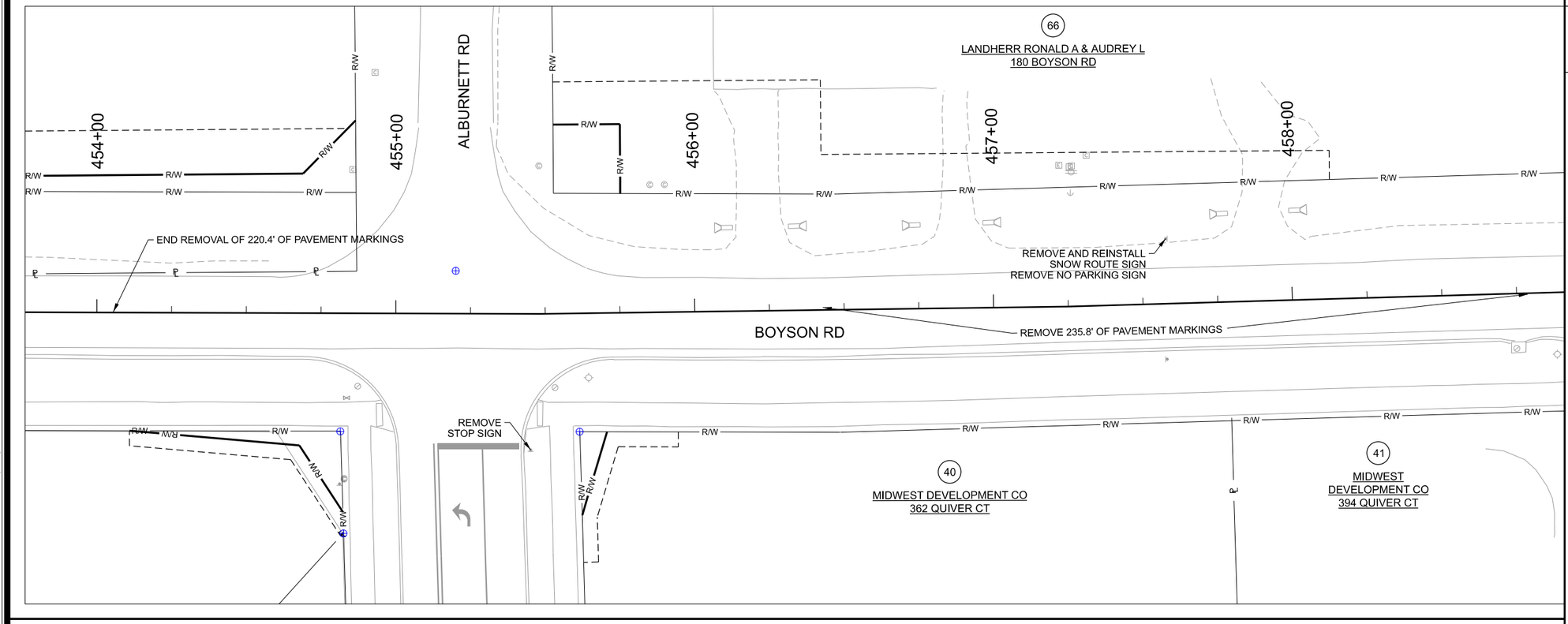
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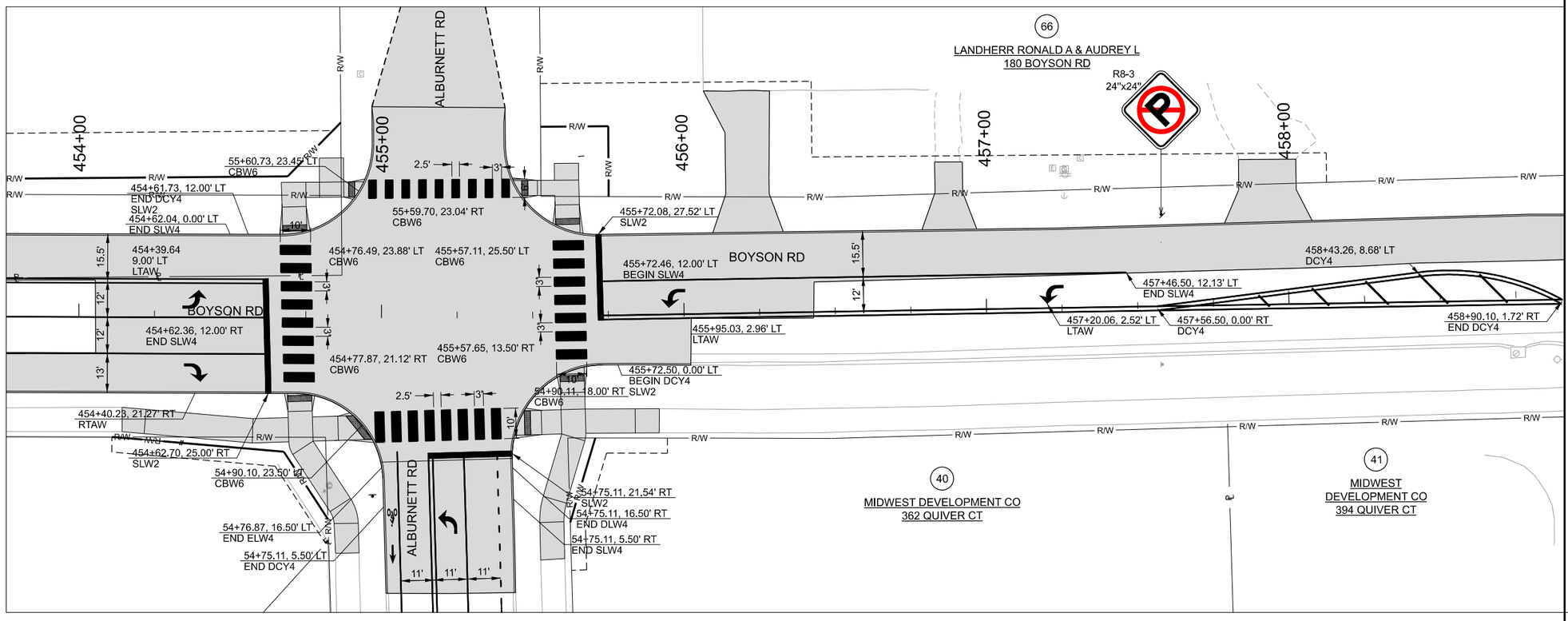
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet PM.12





LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION		

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Project No: 116.0663

Sheet PM.13

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

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CEDAR RAPIDS, IA 52404
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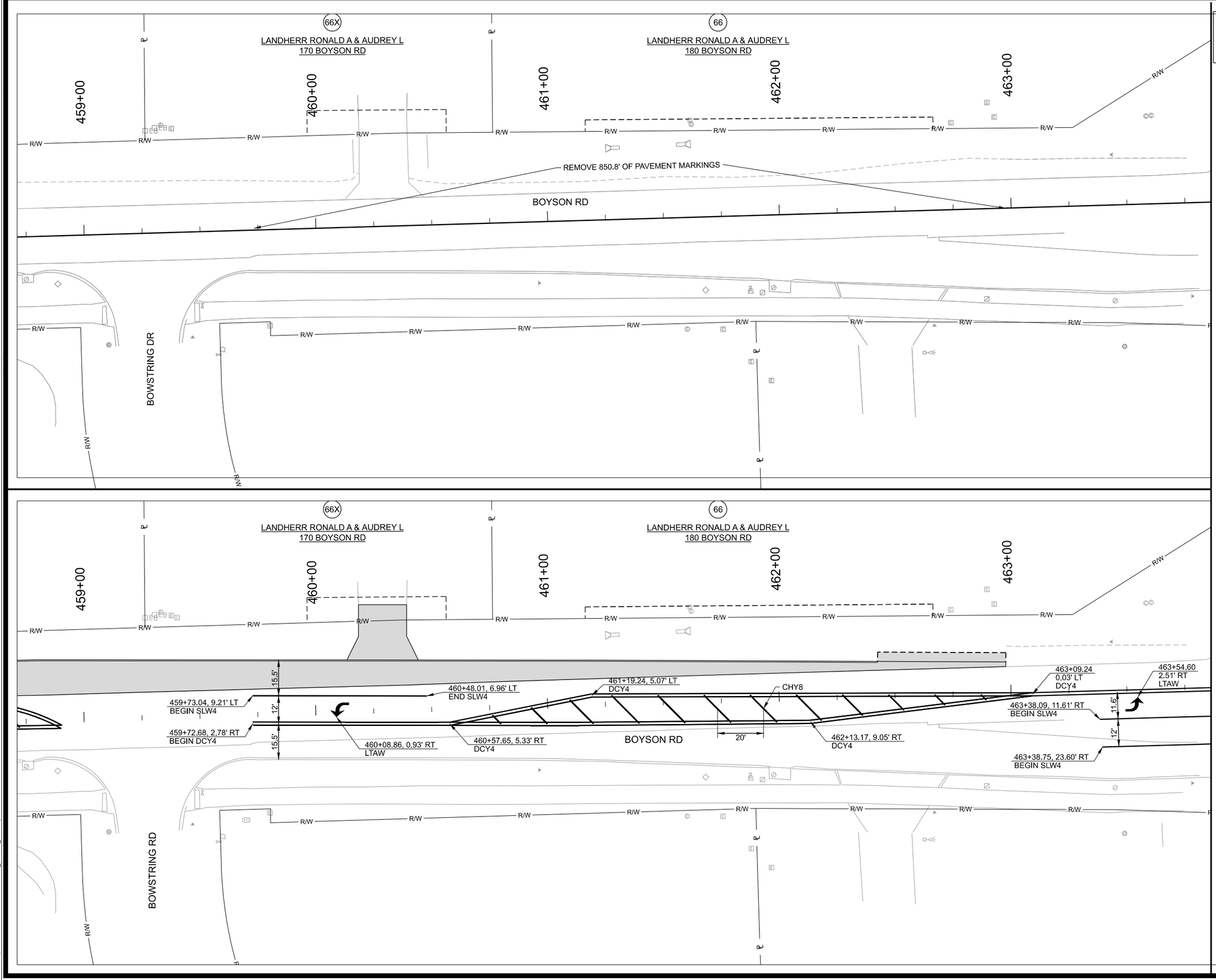
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Project No: 116.0663

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet PM.14

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

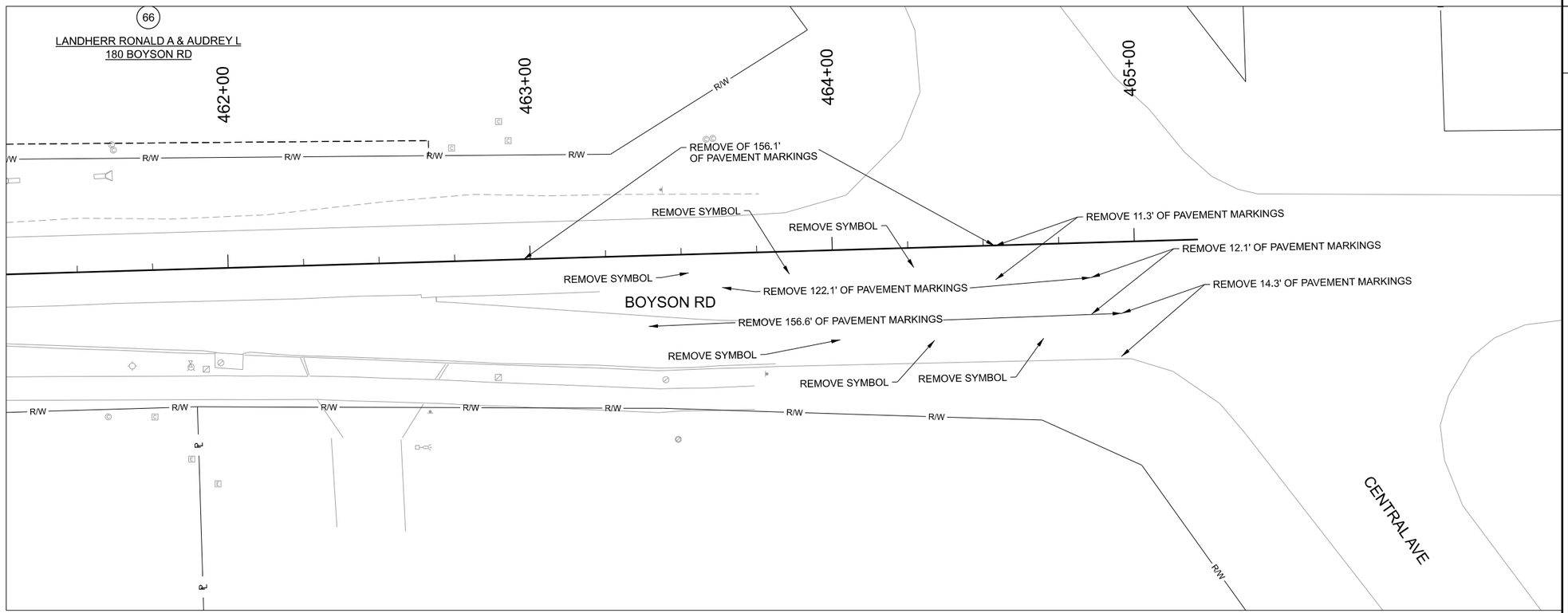
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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

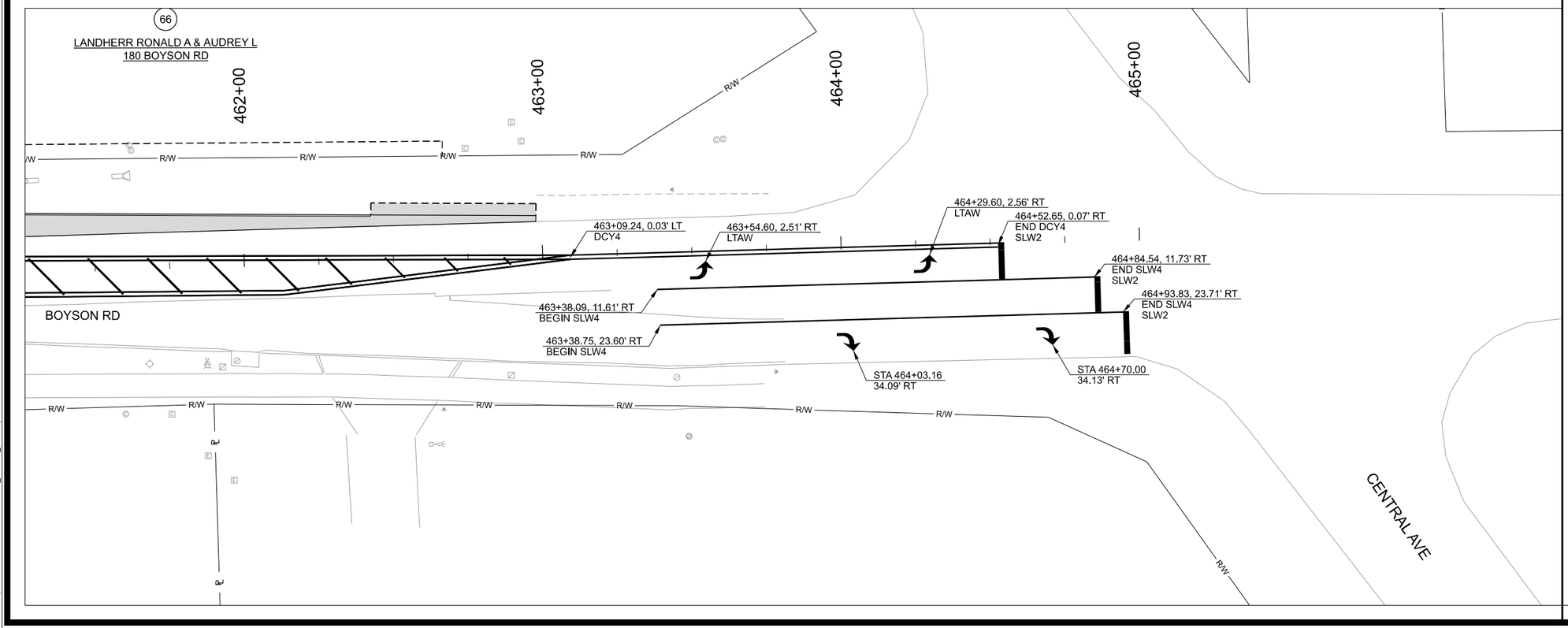
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Project No: 116.0663

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/8/2026
Project No: 116.0663 Sheet PM.15

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

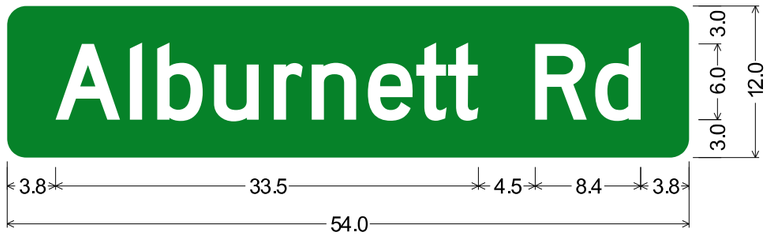
CITY OF MARION, IOWA

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CEDAR RAPIDS, IA 52404
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Project No: 116.0663
Sheet PM.15

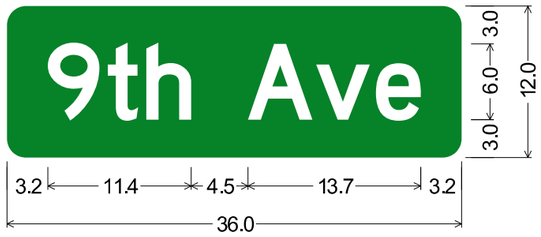
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1.5" Radius, No border, None on Green;
"Alburnett Rd" White, D 2K;
Table of widths and spaces

3.8	A 5.1	0.8	l 1.0	1.2	b 3.6	0.9	u 3.5	1.2	r 2.3	0.7	n 3.6	0.9	e 3.5	0.3	t 2.4	0.1	t 2.4		

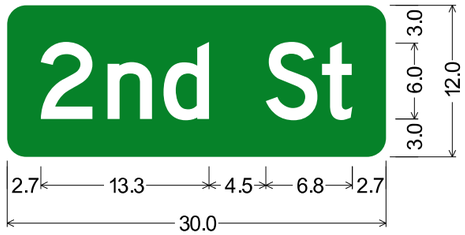
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1.5" Radius, No border, None on Green;
"9th Ave" White, D 2K;
Table of widths and spaces

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4.5	A 5.1	0.3	v 4.2	0.5	e 3.6	3.2



1.5" Radius, No border, None on Green;
"2nd St" White, D 2K;
Table of widths and spaces

2.7	2 4.1	1.2	n 3.5	0.9	d 3.6

4.5	S 4.1	0.3	t 2.4	2.7

DOT PROJECT NUMBER: HDP-4775(646)--71-57						
			FINAL PLANS	5/13/2026		
			REVISION	DATE	BY	
MARK:						
Engineer: MGB			Checked By: DMS		T-R-S:	
Technician: KMM			Date: 5/8/2026			
Project No: 116.0663					Sheet	PM.16

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PERMANENT PAVEMENT MARKINGS AND SIGNAGE

CITY OF MARION, IOWA

SNYDER & ASSOCIATES

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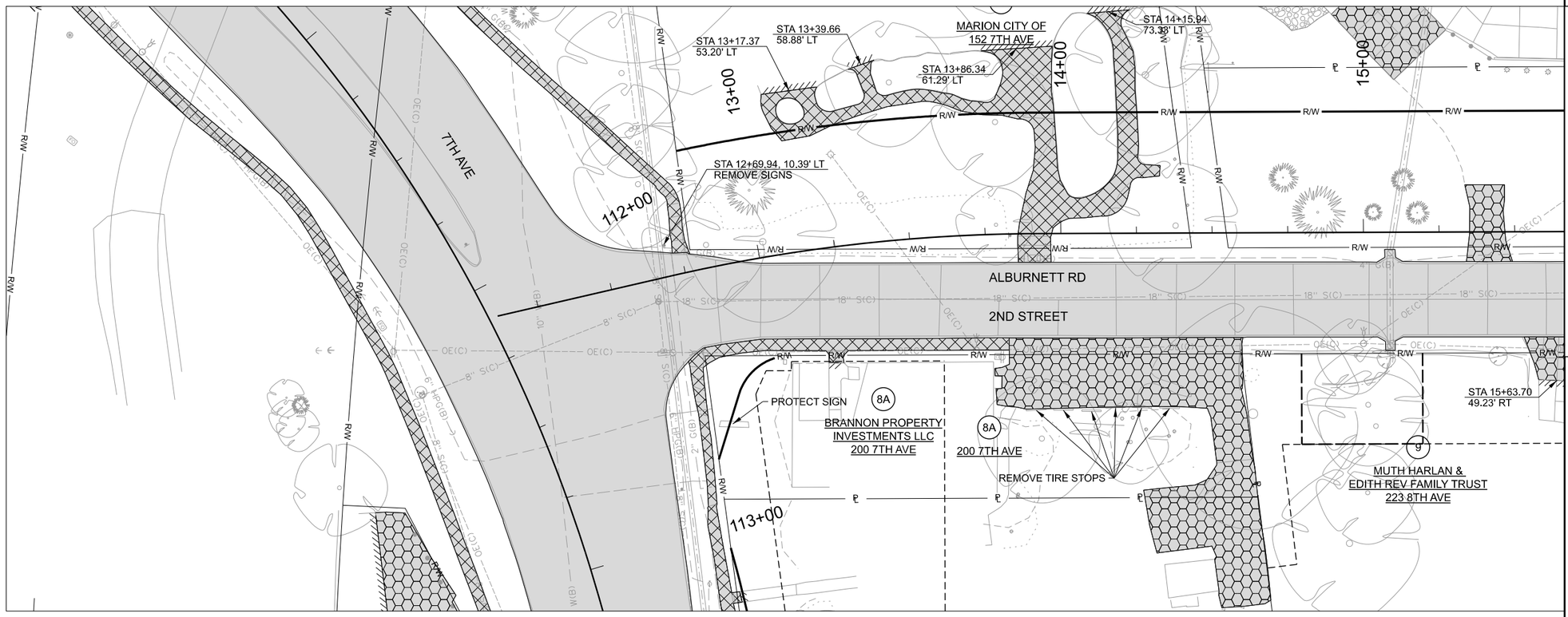
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

Project No: 116.0663

Sheet PM.16

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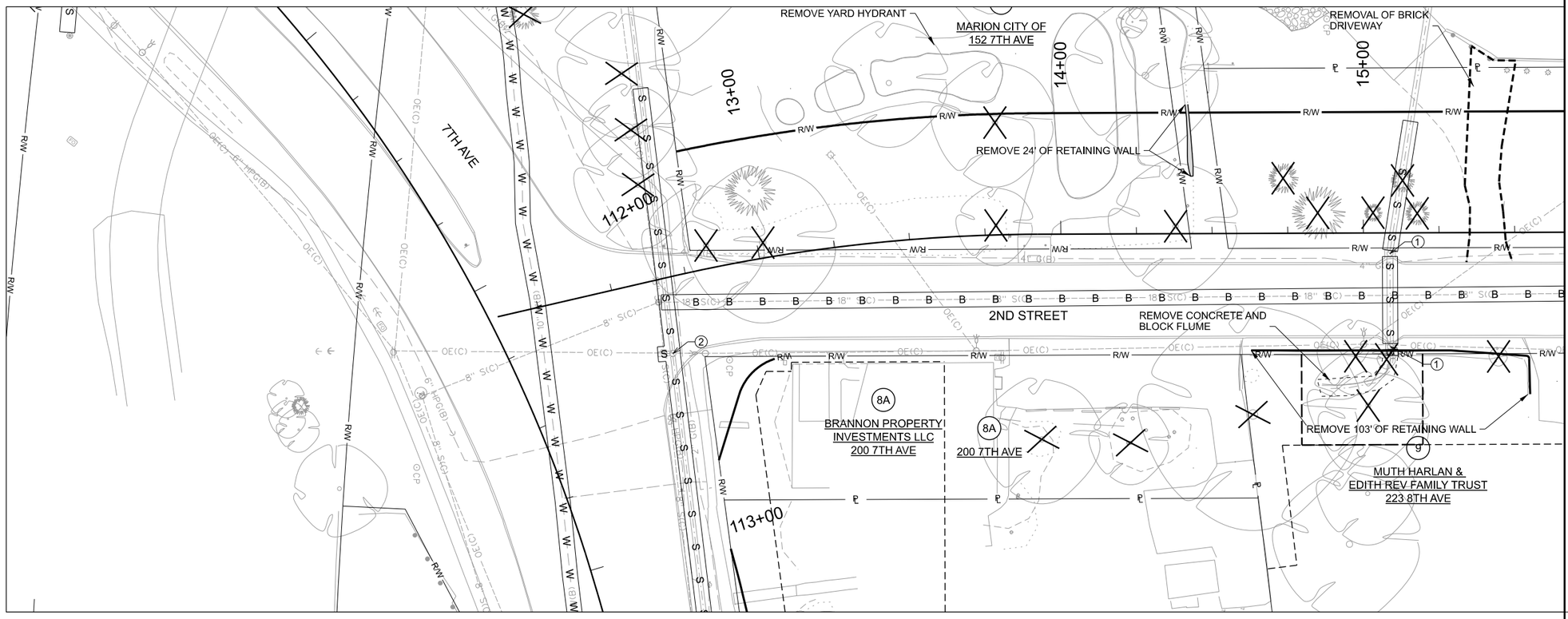


LEGEND

- PAVEMENT REMOVALS
- DRIVEWAY REMOVALS
- SIDEWALK REMOVALS
- CLEARING AND GRUBBING BY AREA
- W W — WATER MAIN ABANDONMENT, CAP
- B B — SANITARY SEWER REMOVAL
- B B — SANITARY SEWER ABANDONMENT
- S S — STORM SEWER REMOVAL
- S S — STORM SEWER ABANDONMENT
- RETAINING WALL REMOVAL
- SAW CUT LINES
- CLEARING AND GRUBBING
- CLEARING AND GRUBBING(BRUSH)

NOTES

1. REMOVAL OF INTAKE
2. REMOVAL OF UTILITY ACCESS



0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57					
				5/13/2026	BY
		FINAL PLANS		DATE	
MARK		REVISION			
Engineer:	MGB	Checked By:	DMS		Field Bk.:
Technician:	KMM	Date:	5/8/2026		Pg.:

Project No: 116.0663

Sheet Q.1

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet Q.1

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73
101 8TH AVE

8TH AVE

16+00

17+00

216+00

19
182 8TH AVE

18+00

19+00

20+00

21
880 2ND ST

20
180 8TH AVE

18
184 8TH AVE

STA 17+14.04, 6.87' RT
REMOVE SIGNS

STA 19+41.18, 6.93' RT
REMOVE SIGN

320+00

217+00

2ND STREET

STA 17+60.68, 36.40' RT
REMOVE SIGN

STA 18+06.39
49.09' RT

STA 17+78.17
70.06' RT

22
205 9TH AVE

STA 18+99.77
46.73' RT

LEGEND

- PAVEMENT REMOVALS
- DRIVEWAY REMOVALS
- SIDEWALK REMOVALS
- CLEARING AND GRUBBING BY AREA
- W W — WATER MAIN ABANDONMENT, CAP
- B B — SANITARY SEWER REMOVAL
- B B — SANITARY SEWER ABANDONMENT
- S S — STORM SEWER REMOVAL
- S S — STORM SEWER ABANDONMENT
- RETAINING WALL REMOVAL
- SAW CUT LINES
- CLEARING AND GRUBBING
- CLEARING AND GRUBBING(BRUSH)

NOTES

1. REMOVAL OF INTAKE
2. REMOVE SEWER TO INSTALL ONE SECTION OF PIPE TO RECONNECT. SEE M SHEETS
3. REMOVAL OF UTILITY ACCESS
4. REMOVE CURB STOP
5. REMOVE VALVE BOX

73
101 8TH AVE

8TH AVE

16+00

17+00

216+00

19
182 8TH AVE

18+00

19+00

20+00

21
880 2ND ST

20
180 8TH AVE

18
184 8TH AVE

4
45' OF RETAINING WALL REMOVAL

5
8" CAP

320+00

217+00

2ND STREET

TRIM BRANCHES

FIRE HYDRANT ASSEMBLY REMOVAL

REMOVE STEPS

22
205 9TH AVE

REMOVE 56' OF FENCE

58' OF RETAINING WALL REMOVAL

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet Q.2

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

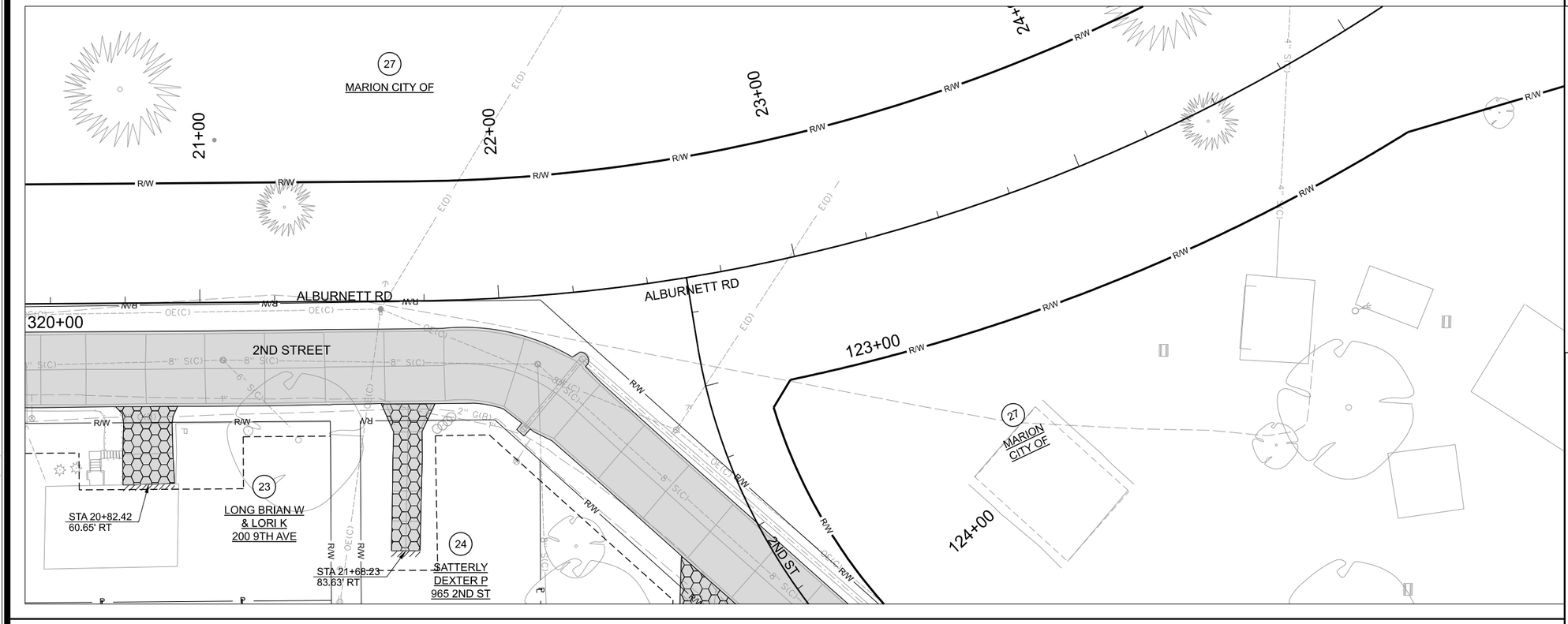
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet Q.2

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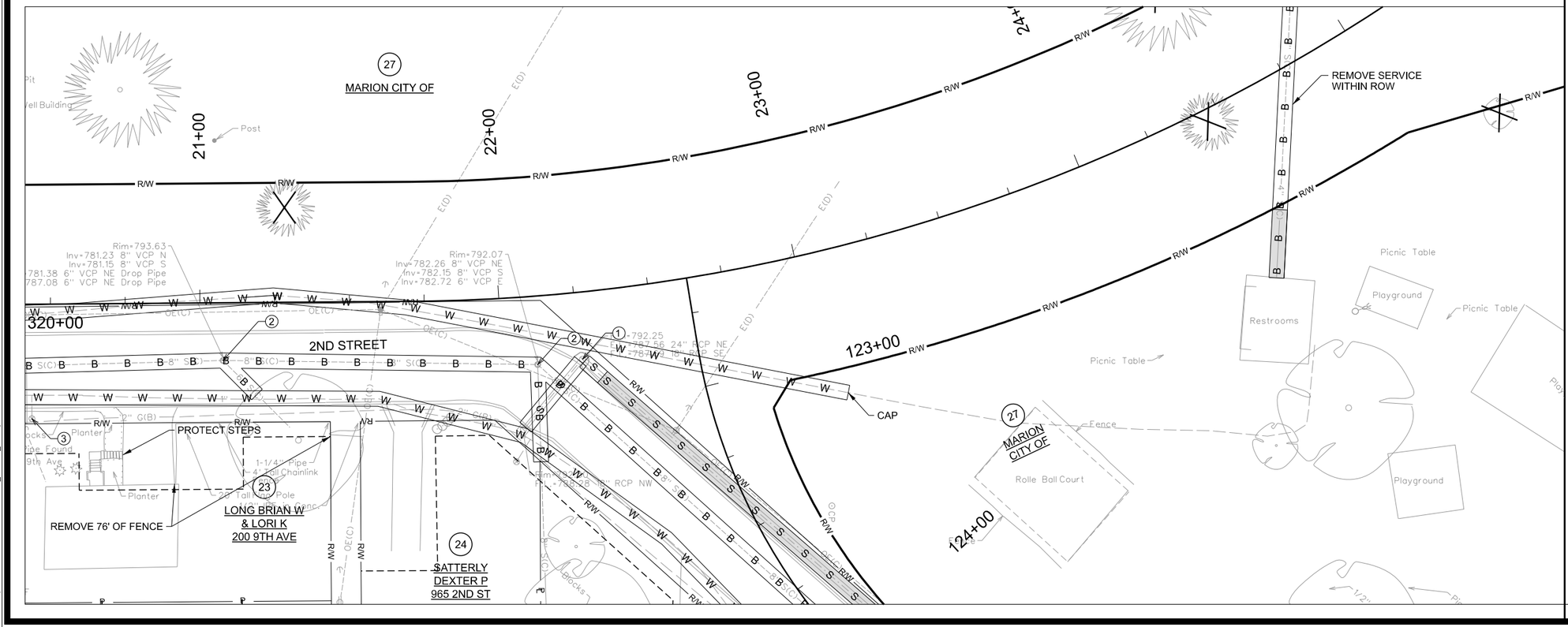


LEGEND

- PAVEMENT REMOVALS
- DRIVEWAY REMOVALS
- SIDEWALK REMOVALS
- CLEARING AND GRUBBING BY AREA
- W W WATER MAIN ABANDONMENT, CAP
- B B SANITARY SEWER REMOVAL
- B B SANITARY SEWER ABANDONMENT
- S S STORM SEWER REMOVAL
- S S STORM SEWER ABANDONMENT
- RETAINING WALL REMOVAL
- SAW CUT LINES
- CLEARING AND GRUBBING
- CLEARING AND GRUBBING(BRUSH)

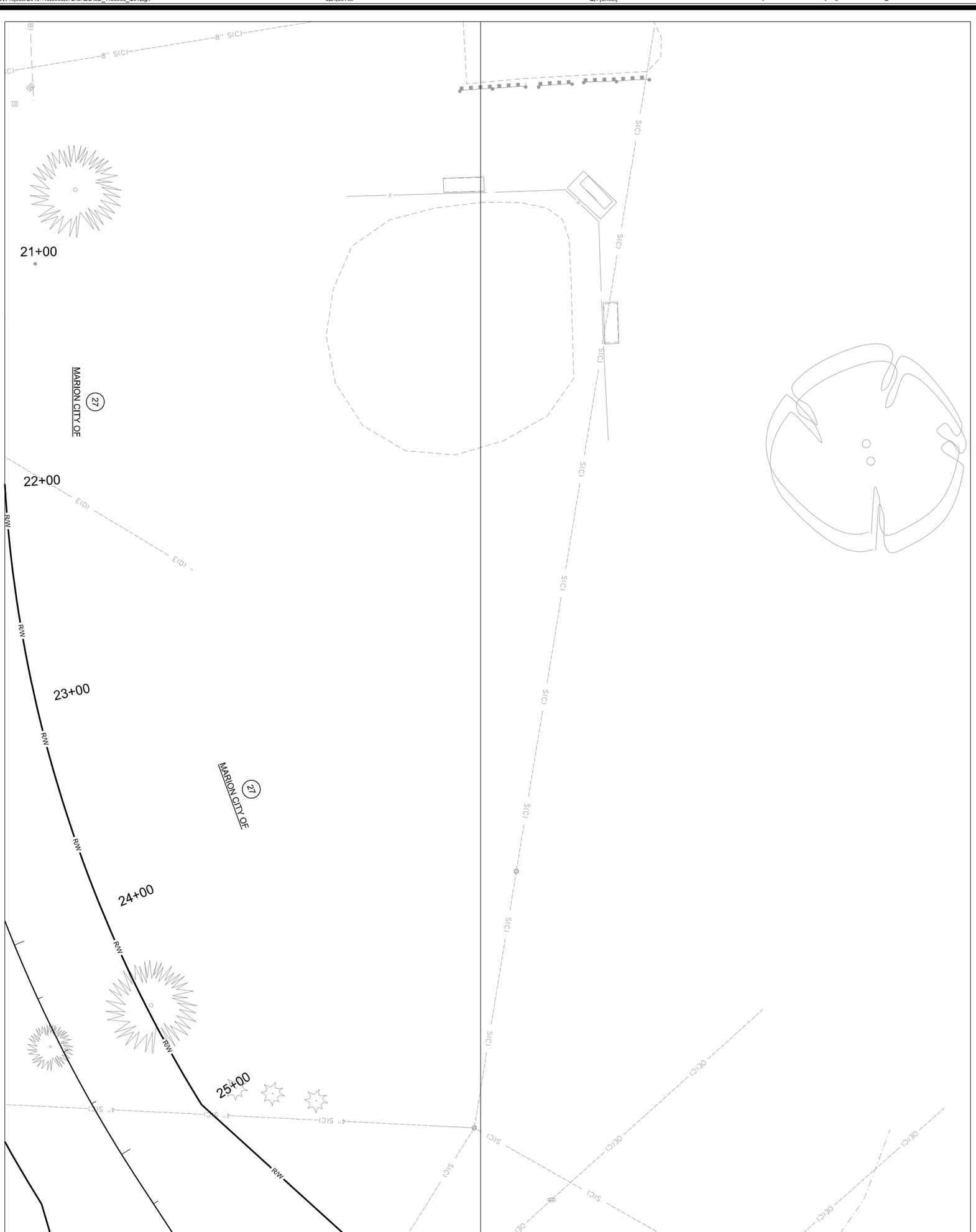
NOTES

1. REMOVAL OF INTAKE
2. REMOVAL OF UTILITY ACCESS
3. REMOVE CURB STOP



0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57						



LEGEND

- PAVEMENT REMOVALS
- DRIVEWAY REMOVALS
- SIDEWALK REMOVALS
- CLEARING AND GRUBBING BY AREA
- WATER MAIN ABANDONMENT, CAP
- SANITARY SEWER REMOVAL
- SANITARY SEWER ABANDONMENT
- STORM SEWER REMOVAL
- STORM SEWER ABANDONMENT
- RETAINING WALL REMOVAL
- SAW CUT LINES
- CLEARING AND GRUBBING
- CLEARING AND GRUBBING(BRUSH)

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

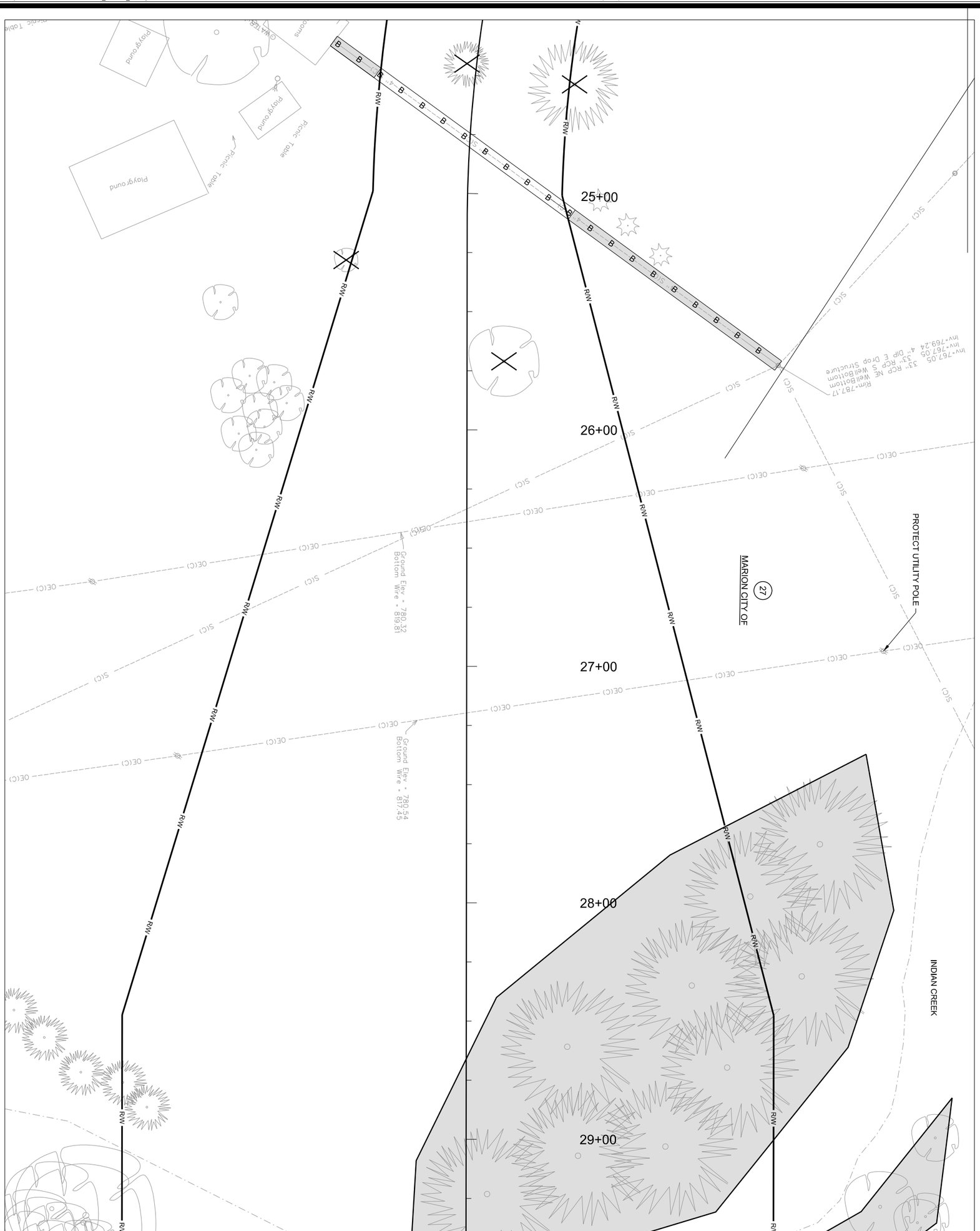
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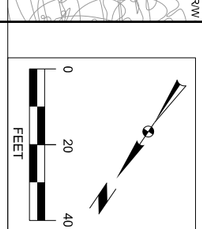
CITY OF MARION, IOWA

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900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		5/13/2026	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet Q.4		

Sheet Q.4
Project No: 116.0663





LEGEND

- PAVEMENT REMOVALS
- DRIVEWAY REMOVALS
- SIDEWALK REMOVALS
- CLEARING AND GRUBBING BY AREA
- WATER MAIN ABANDONMENT, CAP
- SANITARY SEWER REMOVAL
- SANITARY SEWER ABANDONMENT
- STORM SEWER REMOVAL
- STORM SEWER ABANDONMENT
- RETAINING WALL REMOVAL
- SAW CUT LINES
- CLEARING AND GRUBBING
- CLEARING AND GRUBBING(BRUSH)

SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

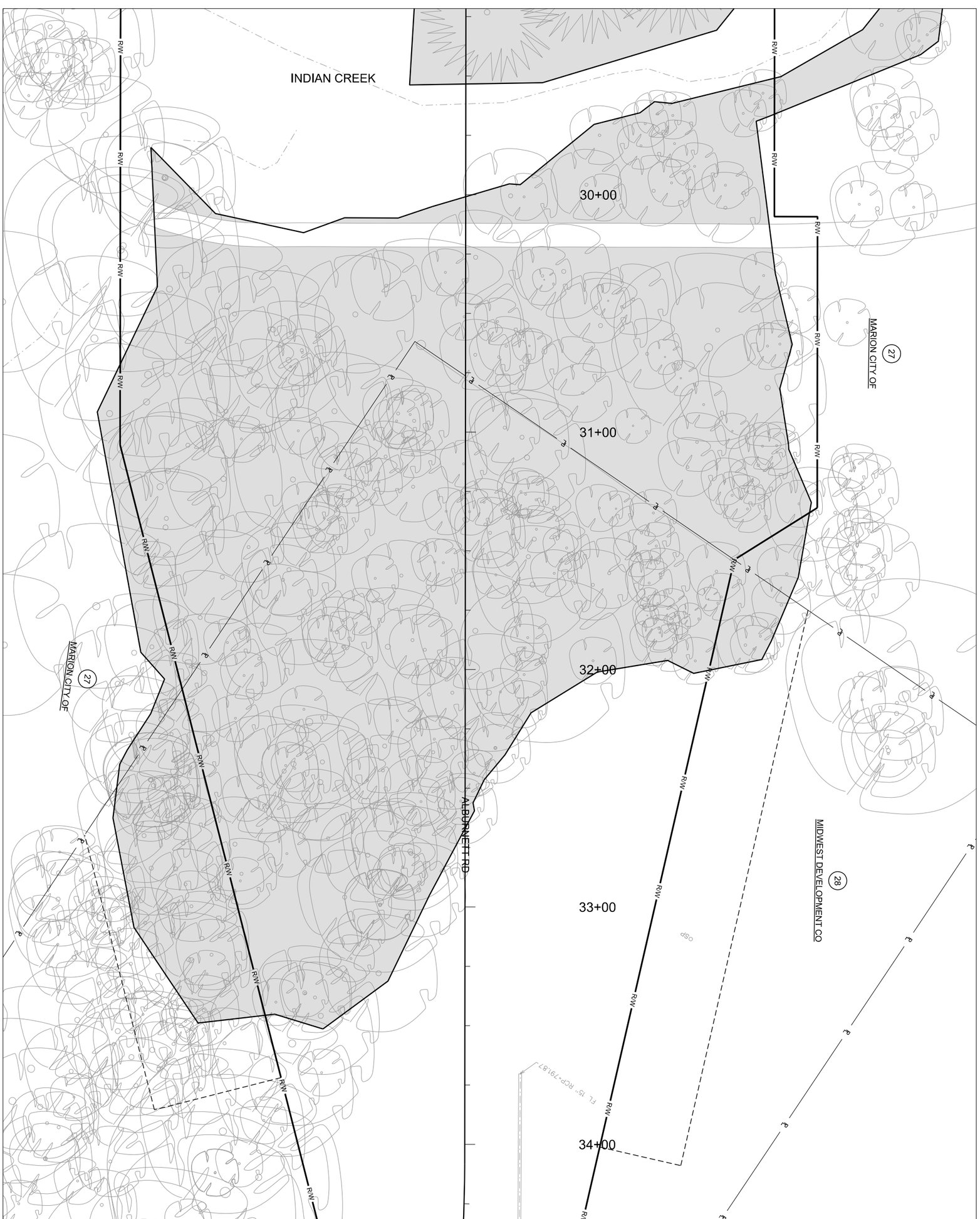
CITY OF MARION, IOWA

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CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

DOT PROJECT NUMBER: HDP-4775(646)--71-57				
FINAL PLANS			5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:	
Project No: 116.0663		Sheet Q.5		

Sheet Q.5
Project No: 116.0663



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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

CITY OF MARION, IOWA

Sheet Q.6

Project No: 116.0663

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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

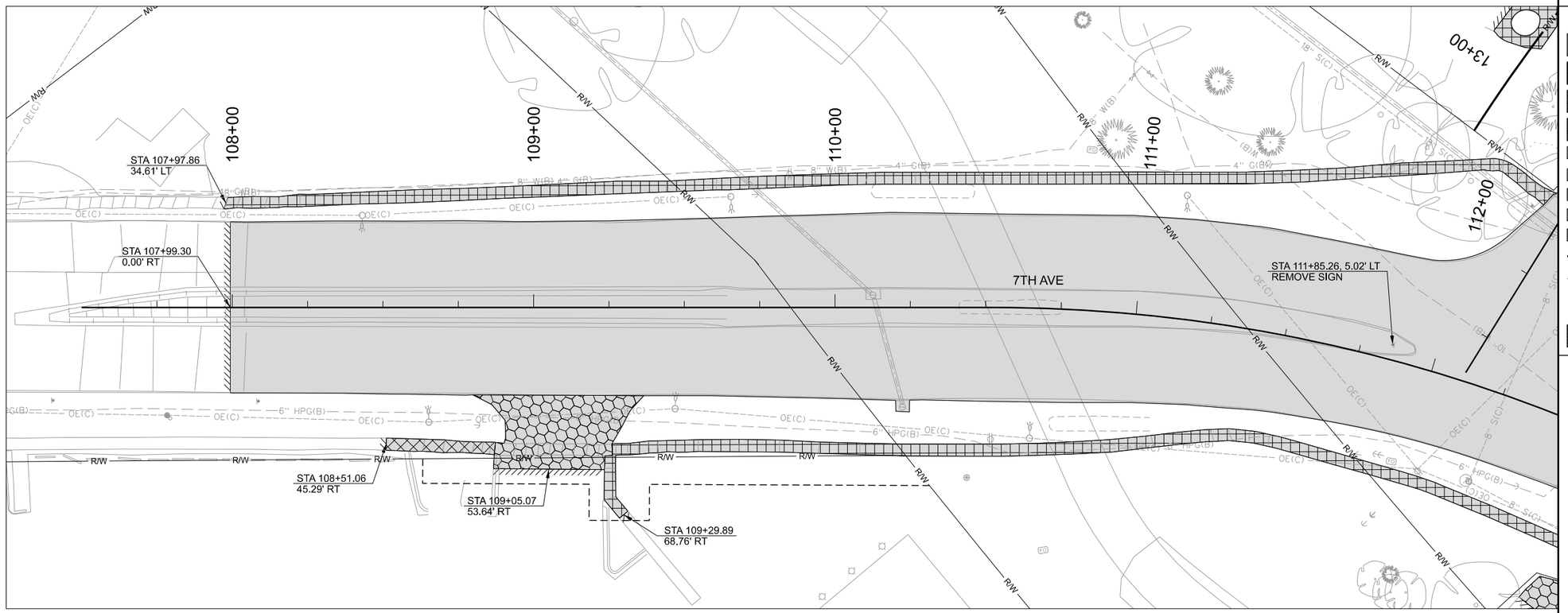
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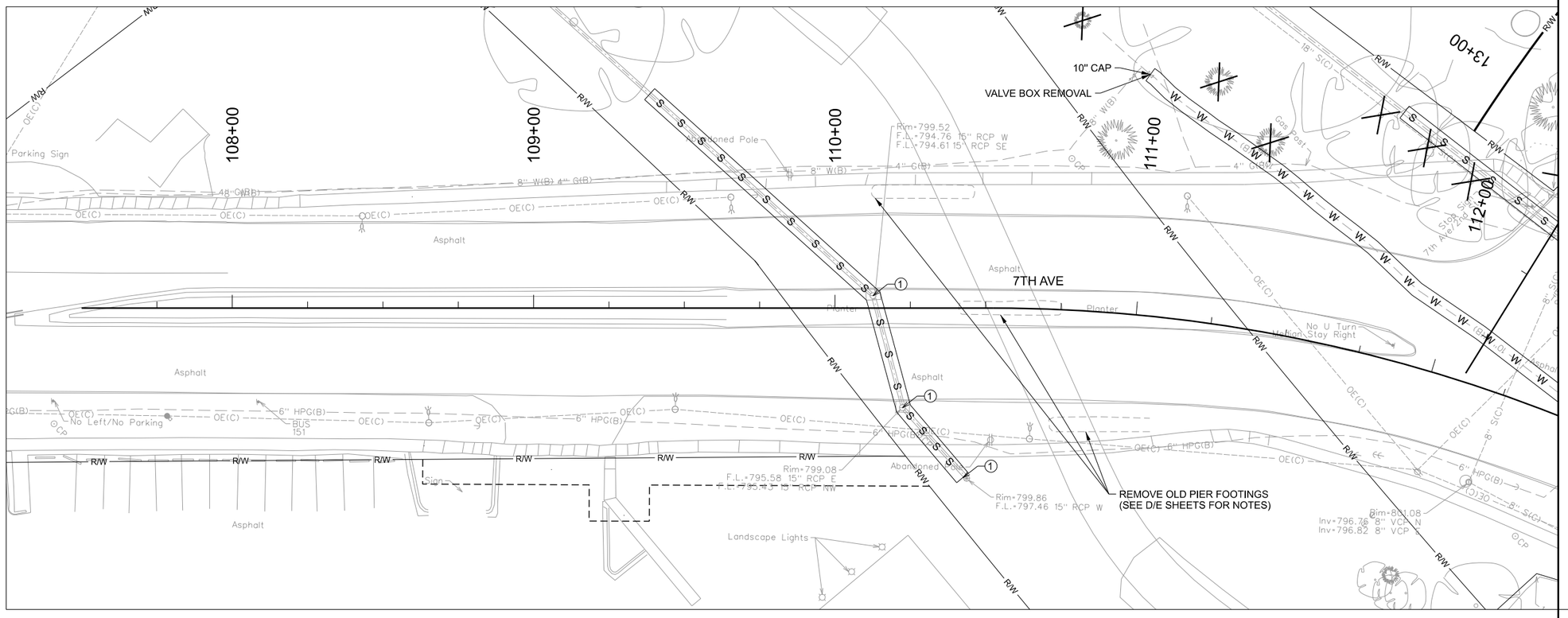
MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS
Technician: KMM | Date: 5/8/2026 | Field Bk: Pg:

Project No: 116.0663 | Sheet Q.6

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LEGEND

- PAVEMENT REMOVALS
- DRIVEWAY REMOVALS
- SIDEWALK REMOVALS
- CLEARING AND GRUBBING BY AREA
- W W — WATER MAIN ABANDONMENT, CAP
- B B — SANITARY SEWER REMOVAL
- B B — SANITARY SEWER ABANDONMENT
- S S — STORM SEWER REMOVAL
- S S — STORM SEWER ABANDONMENT
- RETAINING WALL REMOVAL
- SAW CUT LINES
- CLEARING AND GRUBBING
- CLEARING AND GRUBBING(BRUSH)

NOTES

(1) REMOVAL OF INTAKE

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet Q.7

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

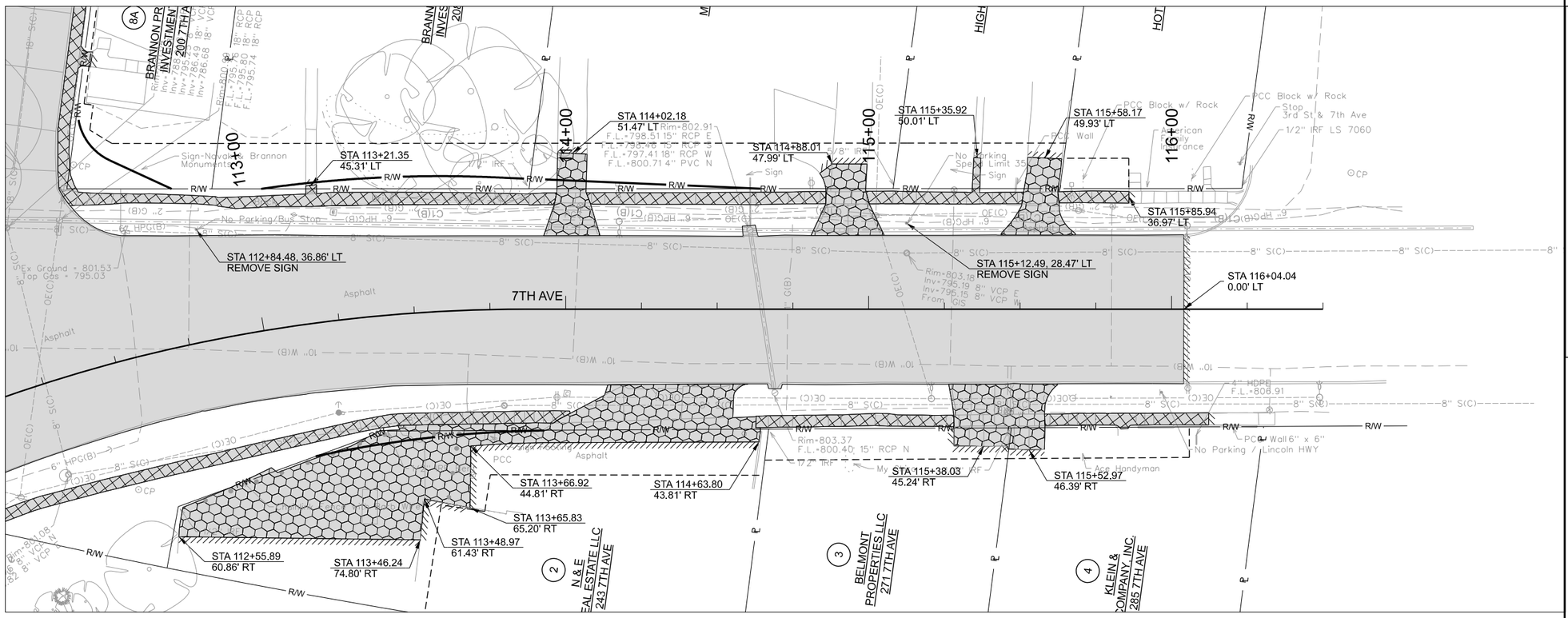
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CEDAR RAPIDS, IA 52404
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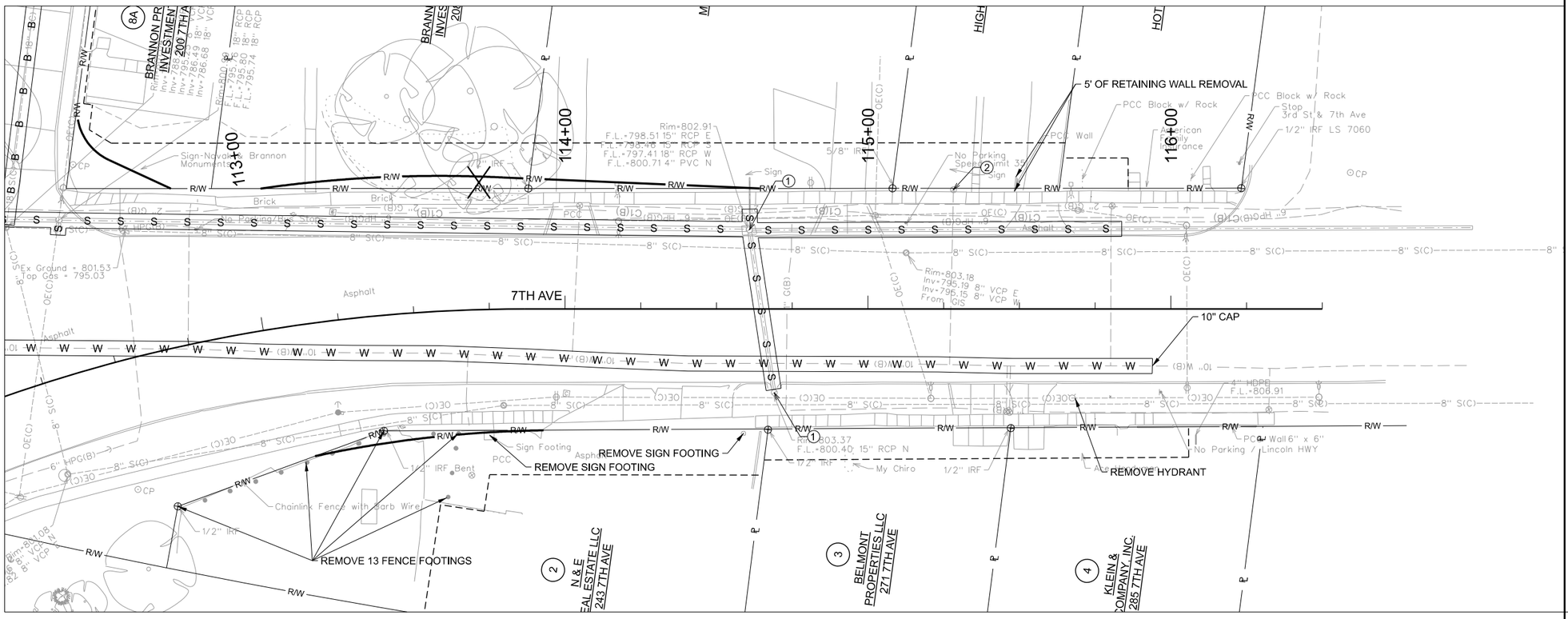
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LEGEND

- PAVEMENT REMOVALS
- DRIVEWAY REMOVALS
- SIDEWALK REMOVALS
- CLEARING AND GRUBBING BY AREA
- W W — WATER MAIN ABANDONMENT, CAP
- B B — SANITARY SEWER REMOVAL
- B B — SANITARY SEWER ABANDONMENT
- S S — STORM SEWER REMOVAL
- S S — STORM SEWER ABANDONMENT
- RETAINING WALL REMOVAL
- SAW CUT LINES
- CLEARING AND GRUBBING
- CLEARING AND GRUBBING(BRUSH)

NOTES

1. REMOVAL OF INTAKE
2. REMOVE CURB STOP

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MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet Q.8

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

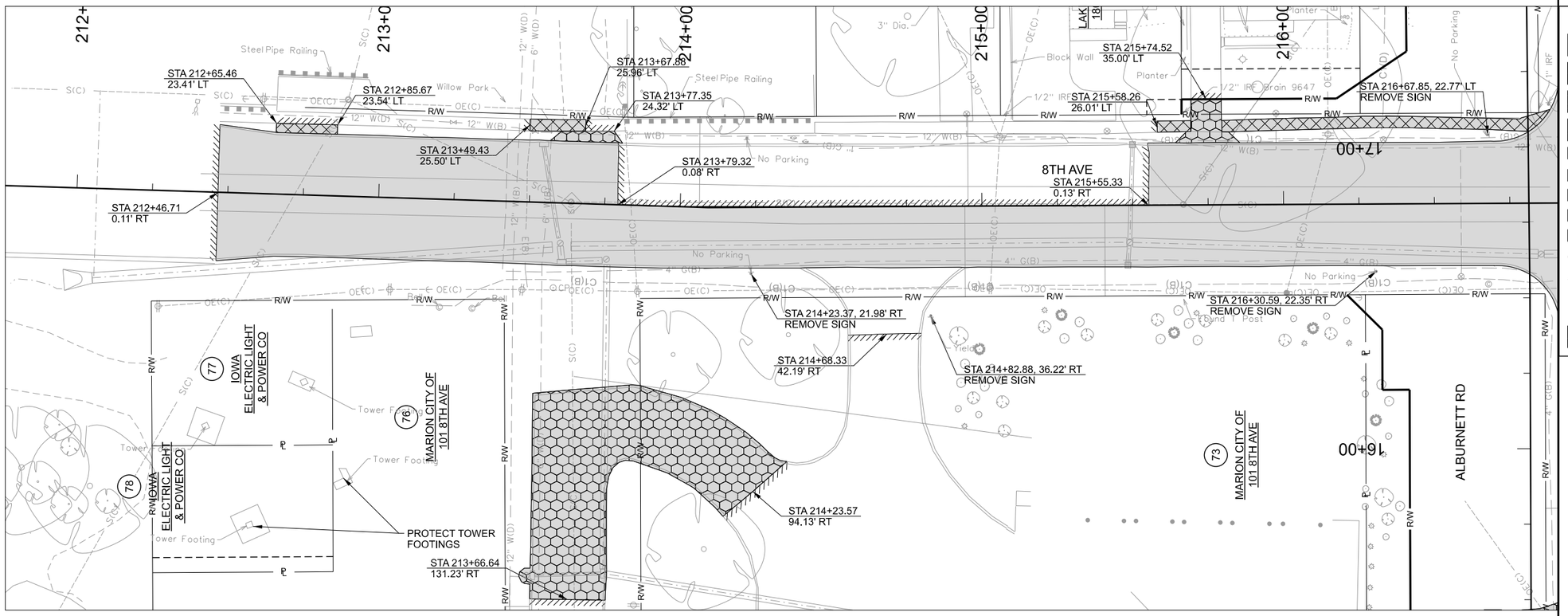
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Project No: 116.0663

Sheet Q.8

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LEGEND

- PAVEMENT REMOVALS
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- CLEARING AND GRUBBING(BRUSH)

NOTES

1. REMOVAL OF INTAKE
2. REMOVAL OF UTILITY ACCESS
3. REMOVE CURB STOP

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB | Checked By: DMS | Field Bk.: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet Q.9

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

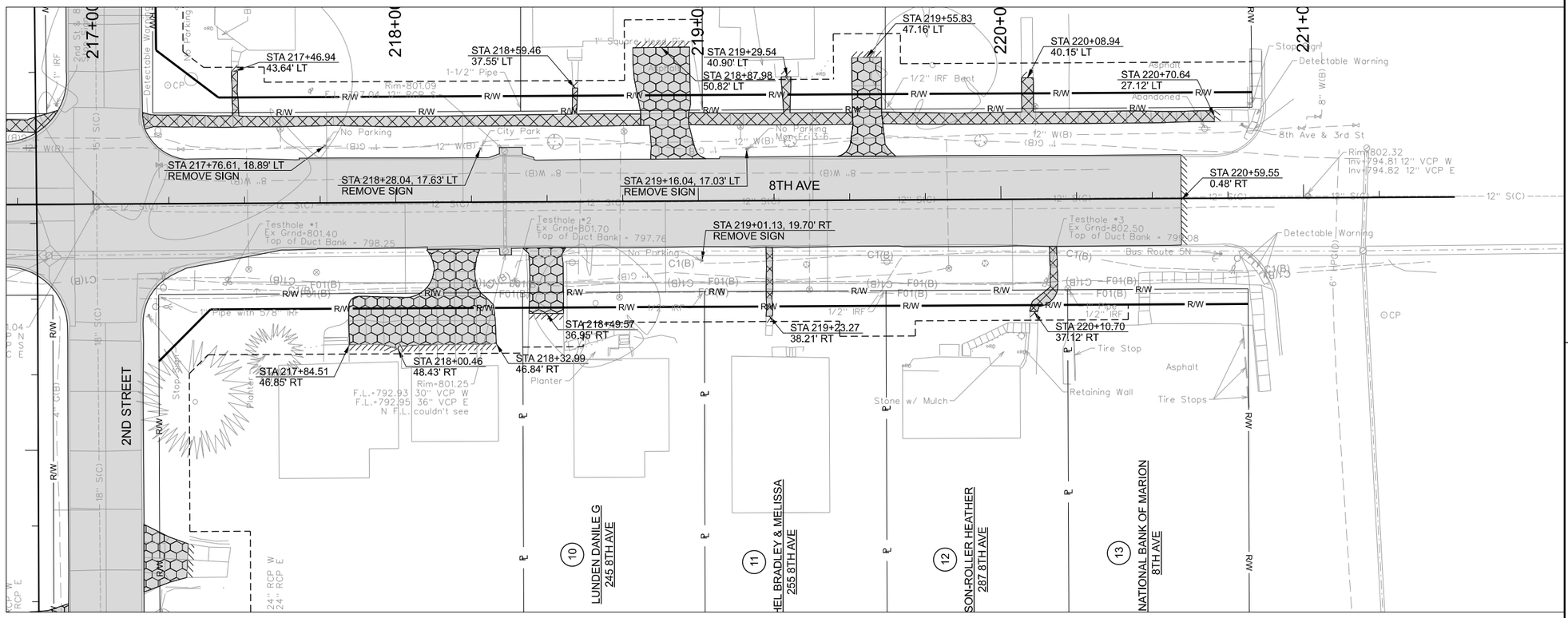
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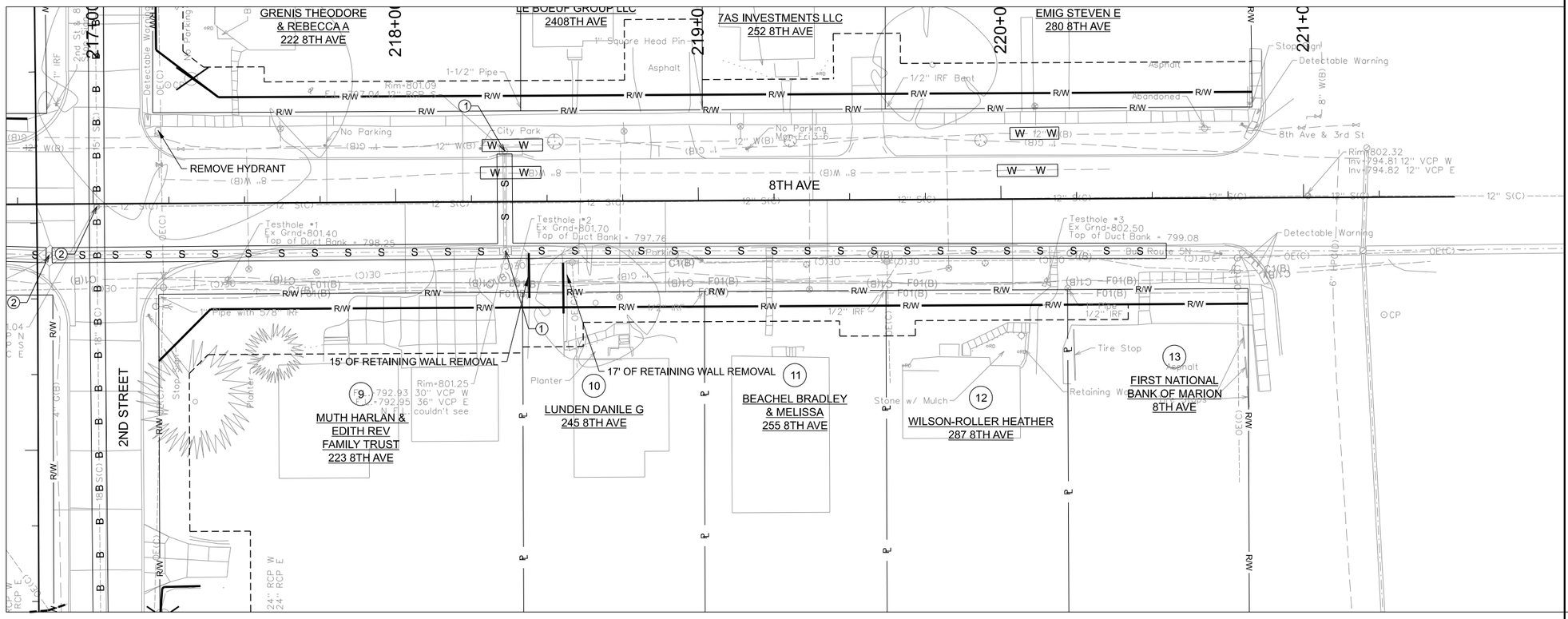
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Project No: 116.0663

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LEGEND

- PAVEMENT REMOVALS
- DRIVEWAY REMOVALS
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- SAW CUT LINES
- CLEARING AND GRUBBING
- CLEARING AND GRUBBING(BRUSH)

NOTES

1. REMOVAL OF INTAKE
2. REMOVAL OF UTILITY ACCESS

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet Q.10

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

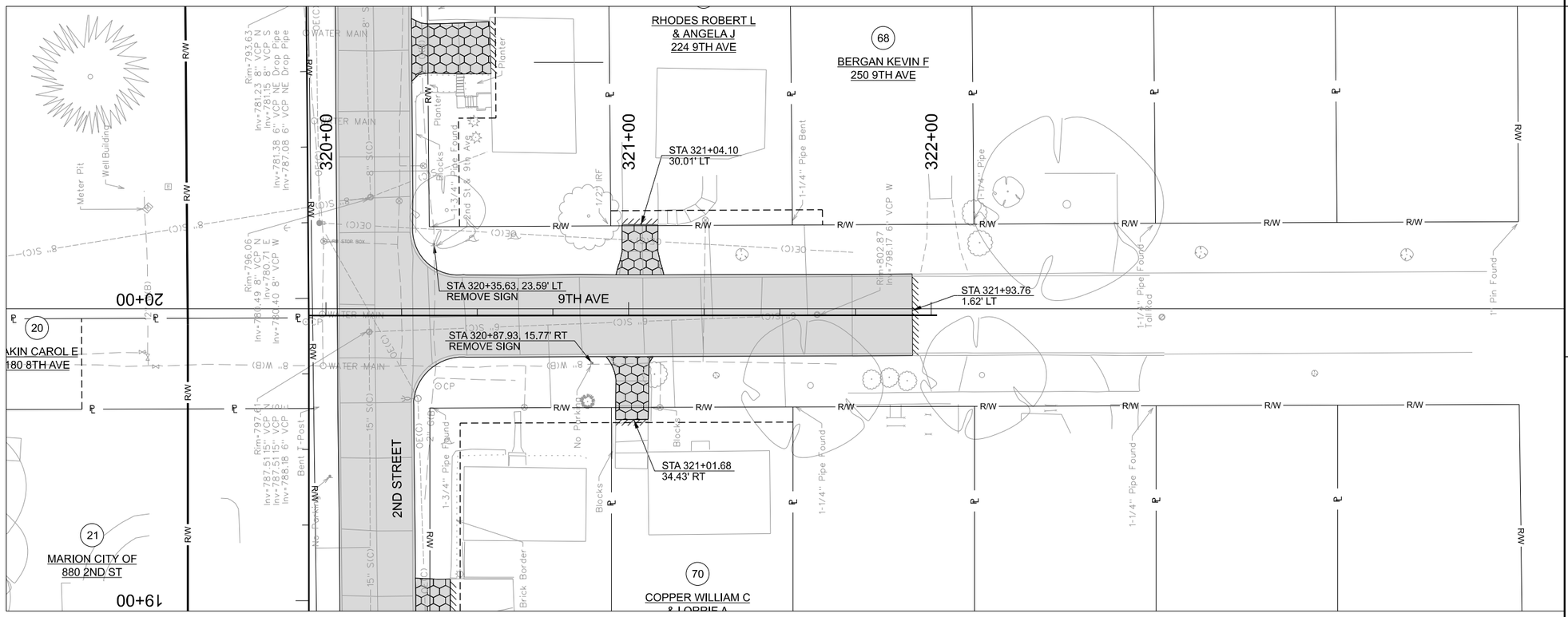
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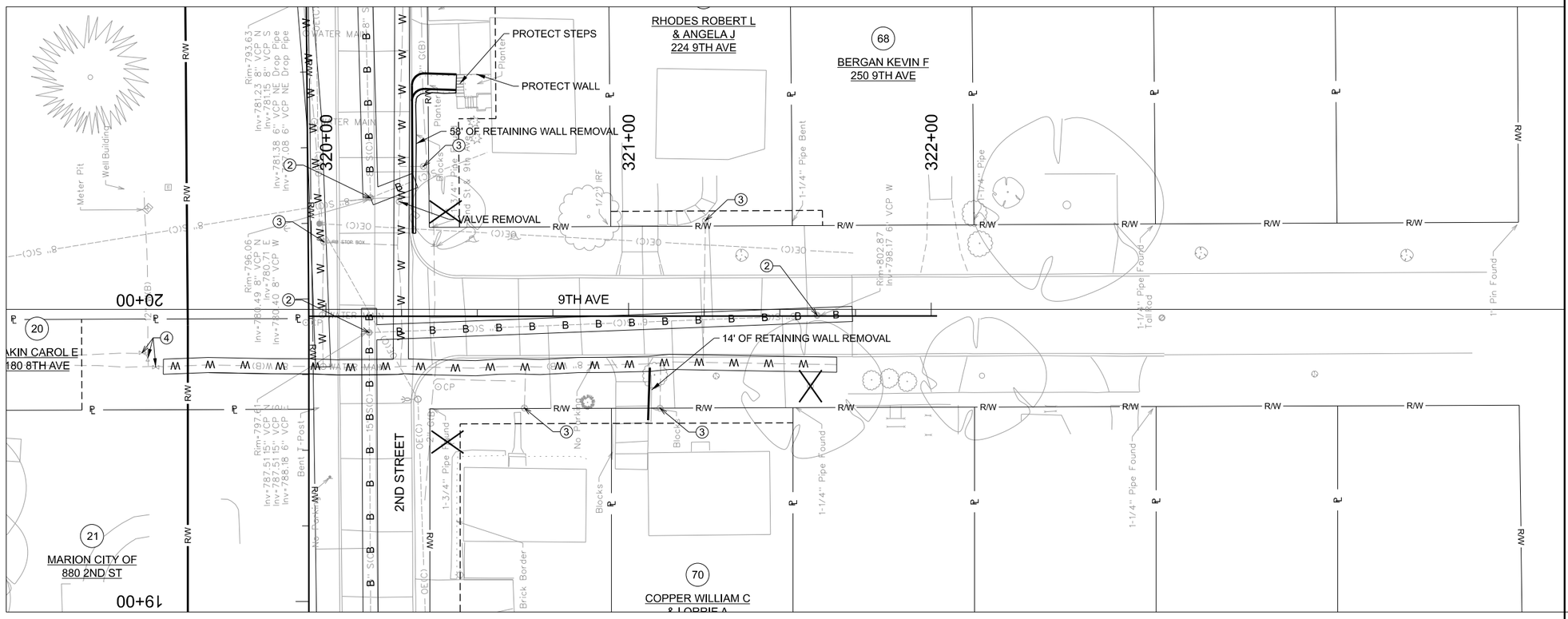
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Project No: 116.0663

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LEGEND

- PAVEMENT REMOVALS
- DRIVEWAY REMOVALS
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- CLEARING AND GRUBBING
- CLEARING AND GRUBBING(BRUSH)

NOTES

1. REMOVAL OF INTAKE
2. REMOVAL OF UTILITY ACCESS
3. REMOVE CURB STOP
4. REMOVE VALVE BOX

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663 Sheet Q.11

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

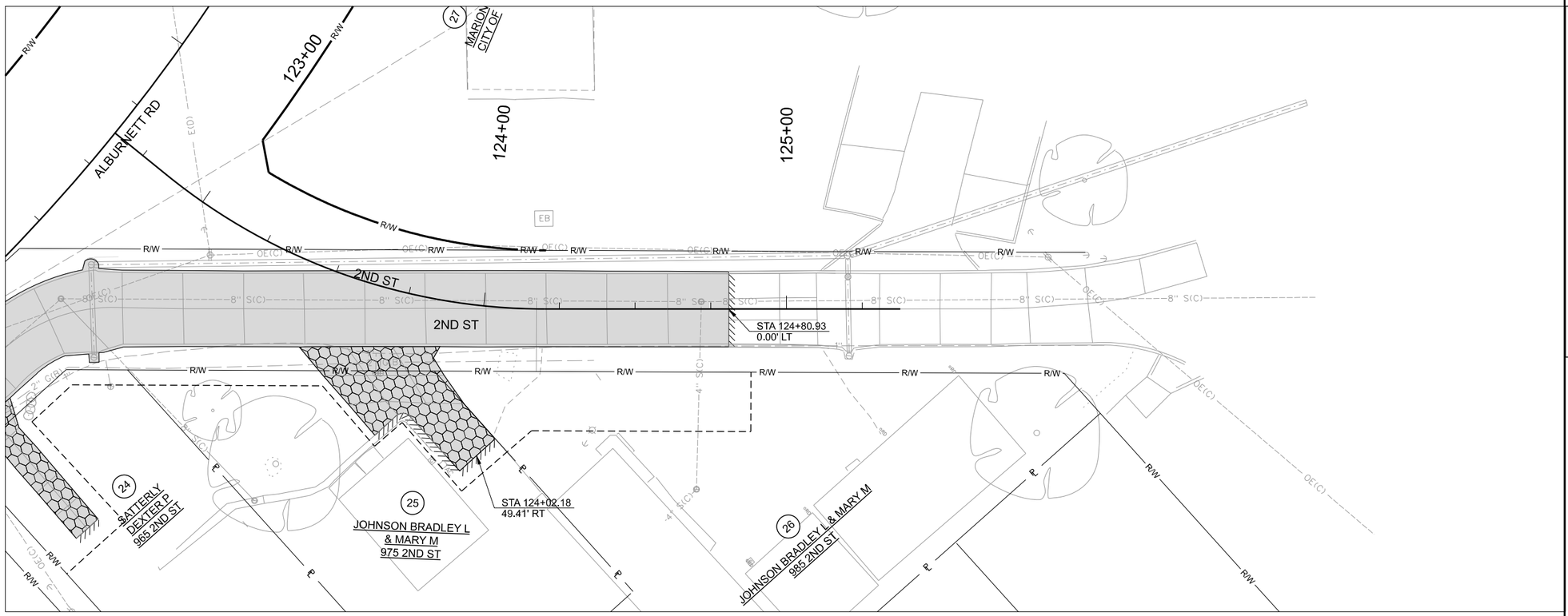
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Project No: 116.0663
Sheet Q.11

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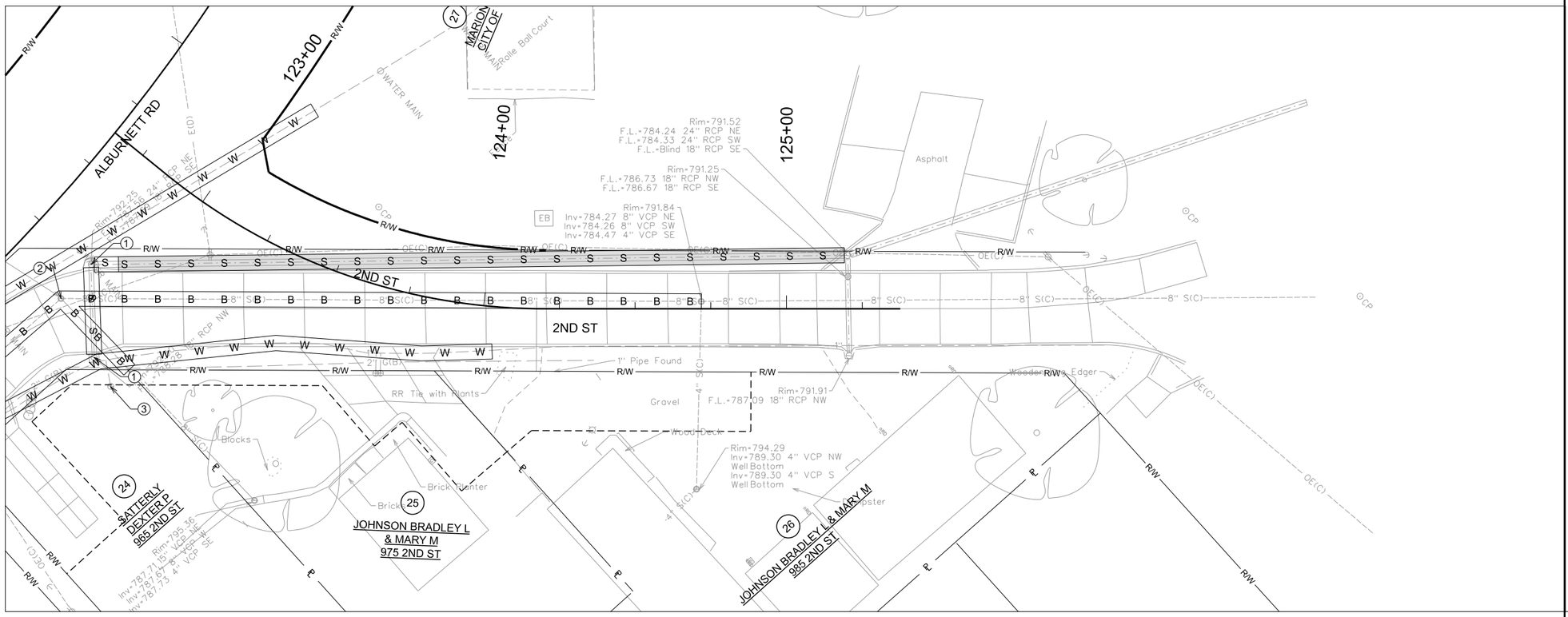


LEGEND

- PAVEMENT REMOVALS
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NOTES

1. REMOVAL OF INTAKE
2. REMOVAL OF UTILITY ACCESS
3. REMOVE CURB STOP



DOT PROJECT NUMBER: HDP-4775(646)--71-57						
		FINAL PLANS	5/13/2026			
MARK		REVISION	DATE	BY		
Engineer: MGB	Checked By: DMS				Field Bk:	Pg:
Technician: KMM	Date: 5/8/2026				Project No: 116.0663	Sheet Q.12

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

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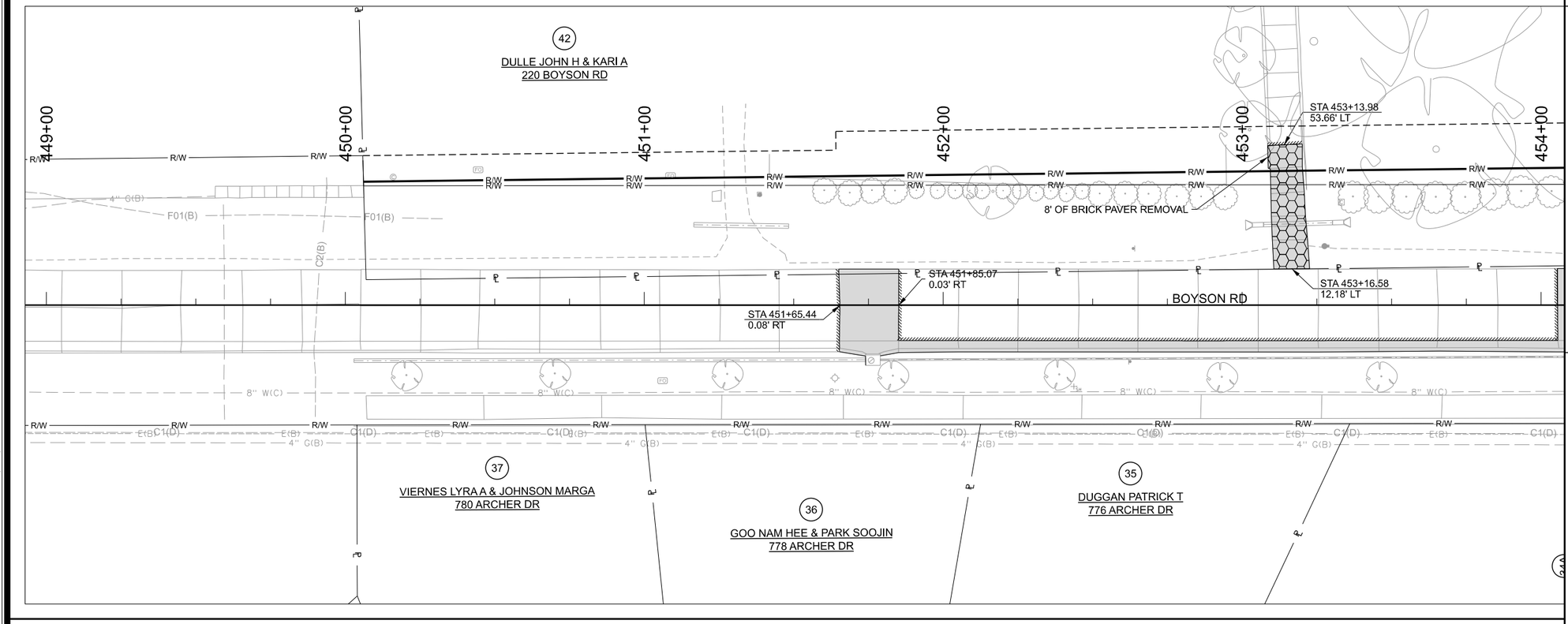
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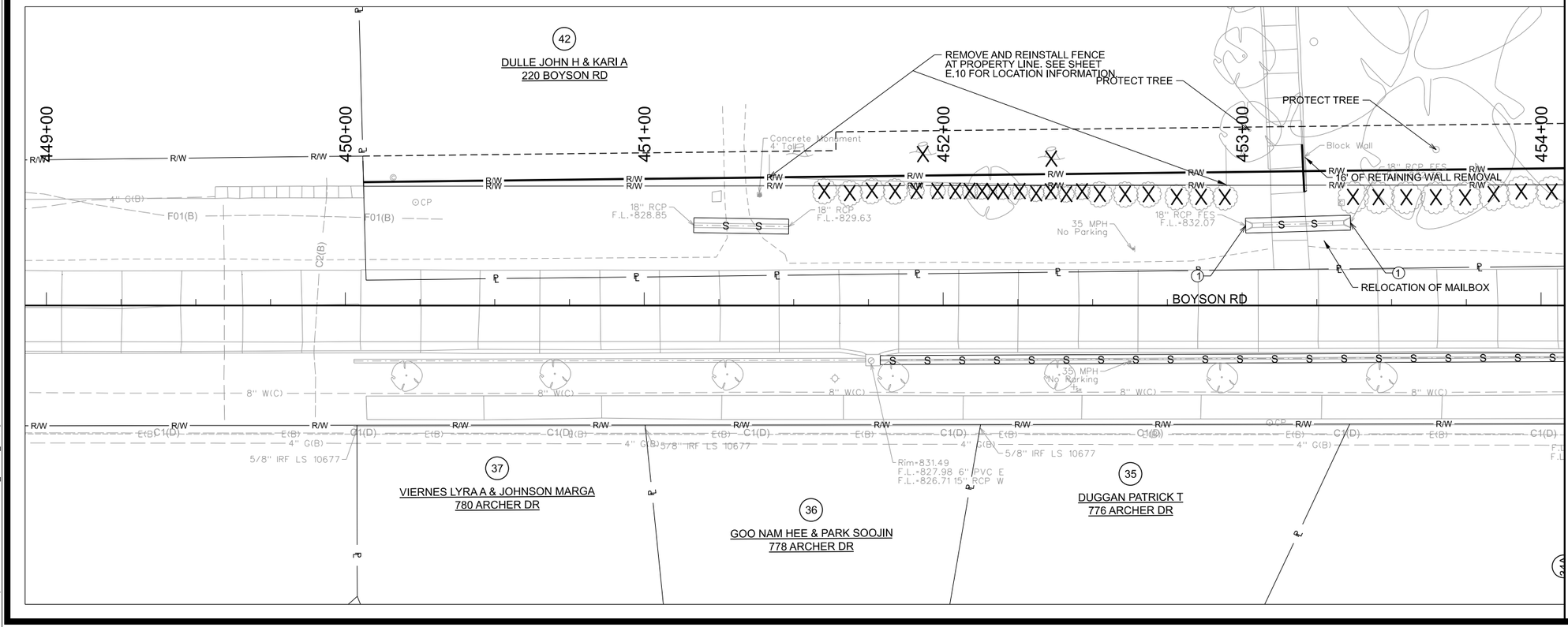
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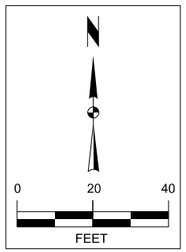


LEGEND

- PAVEMENT REMOVALS
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NOTES

1. REMOVAL OF APRON



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet Q.13

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

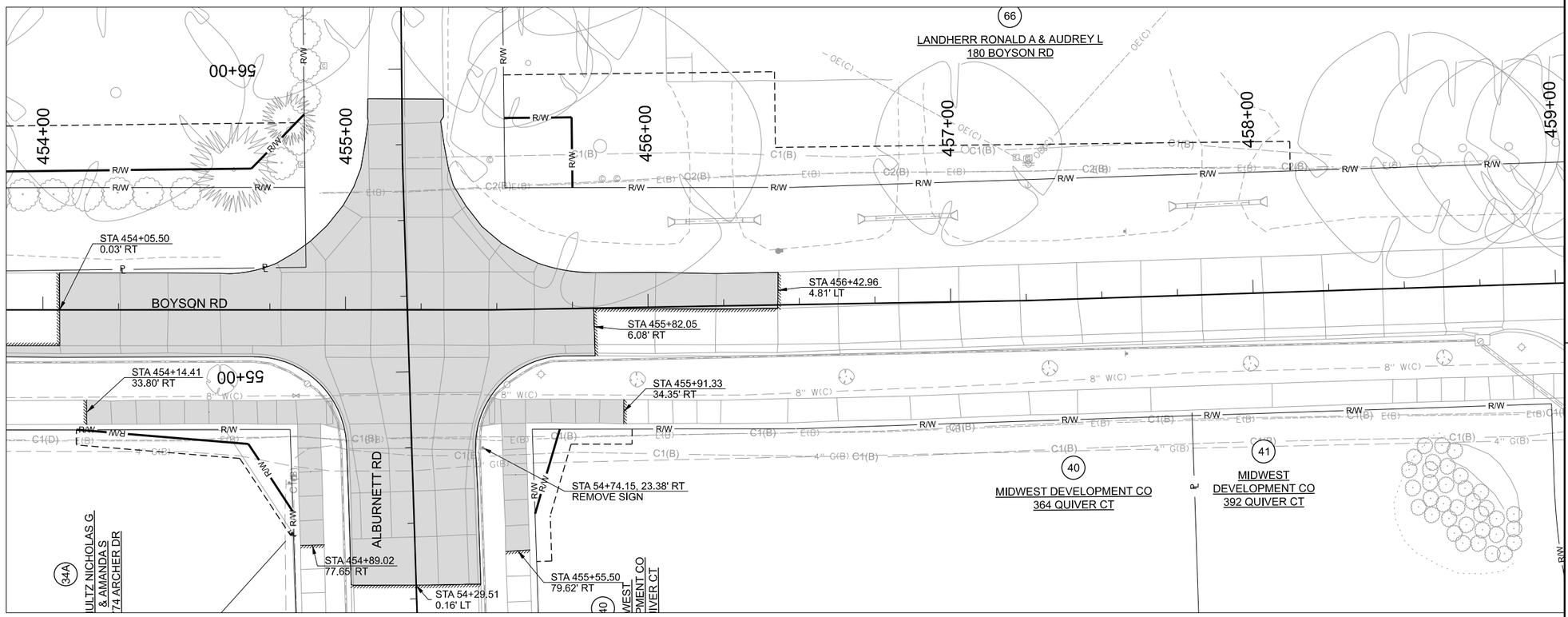
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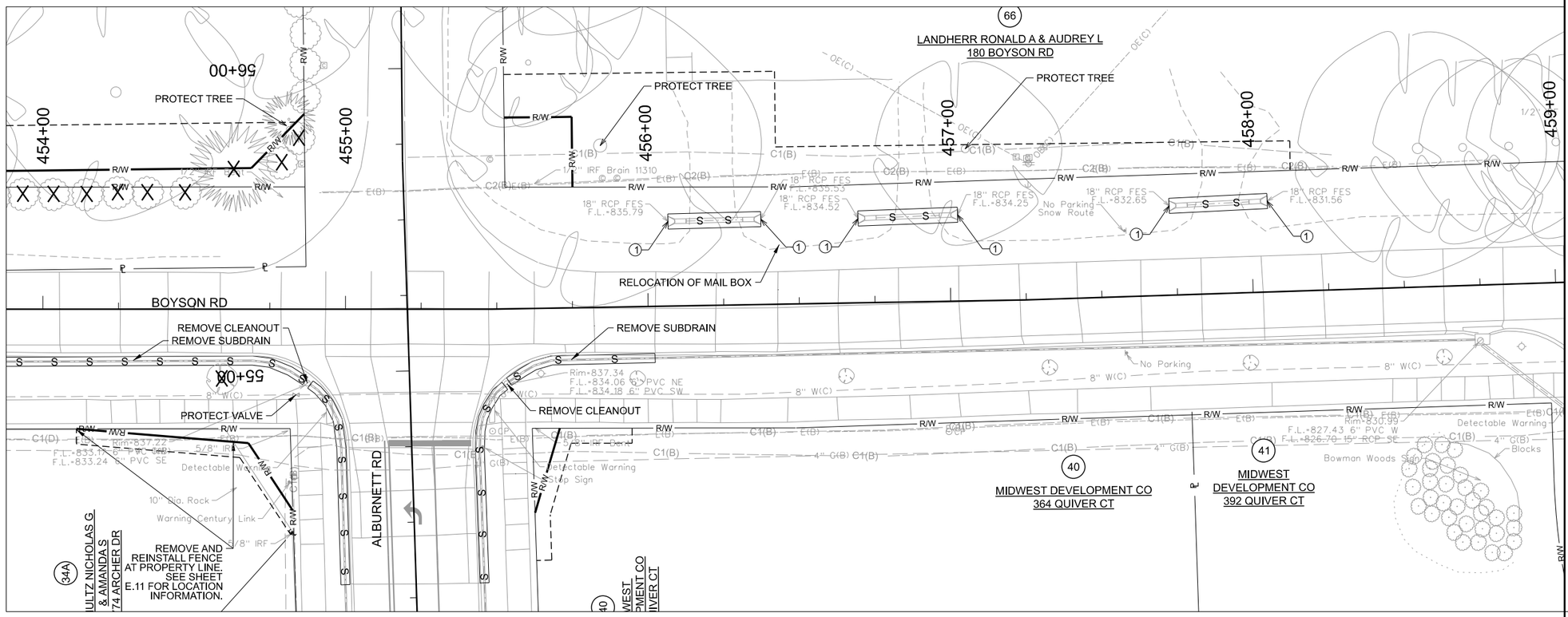
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Project No: 116.0663

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LEGEND

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NOTES

(1) REMOVAL OF APRON

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet Q.14

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

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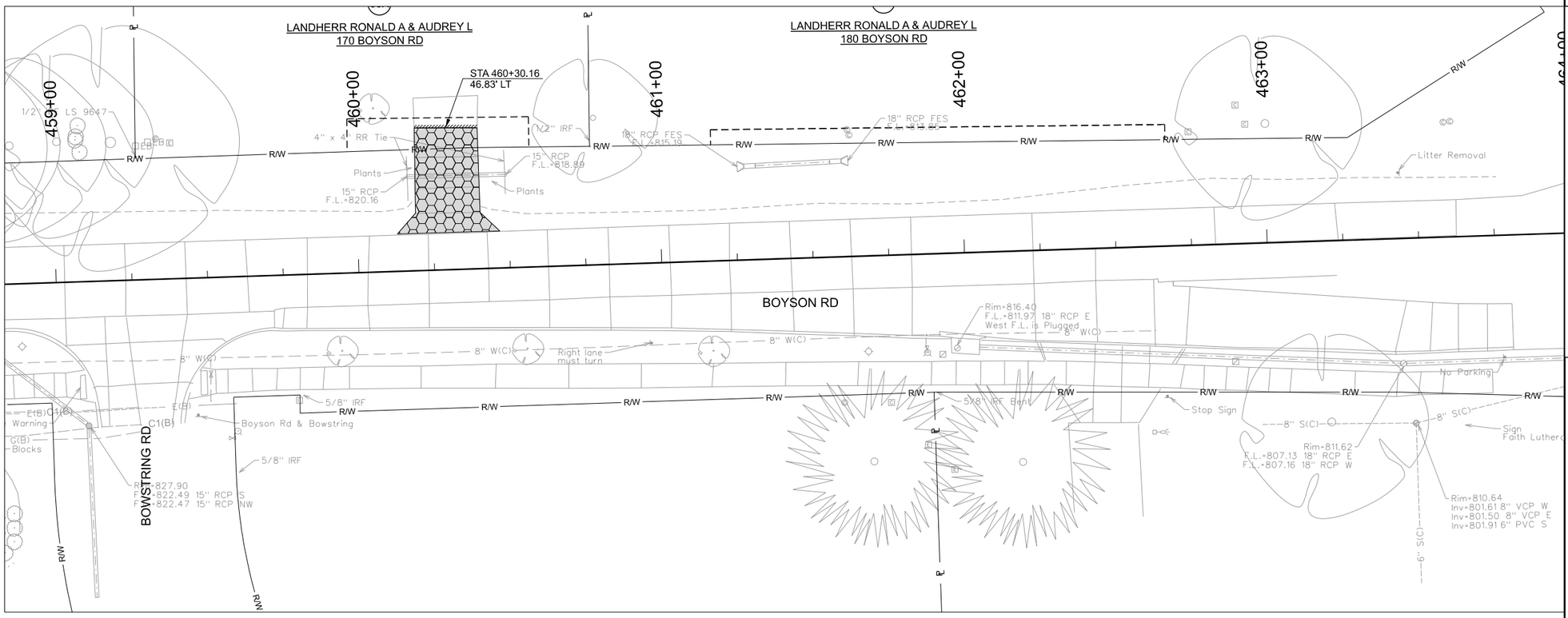
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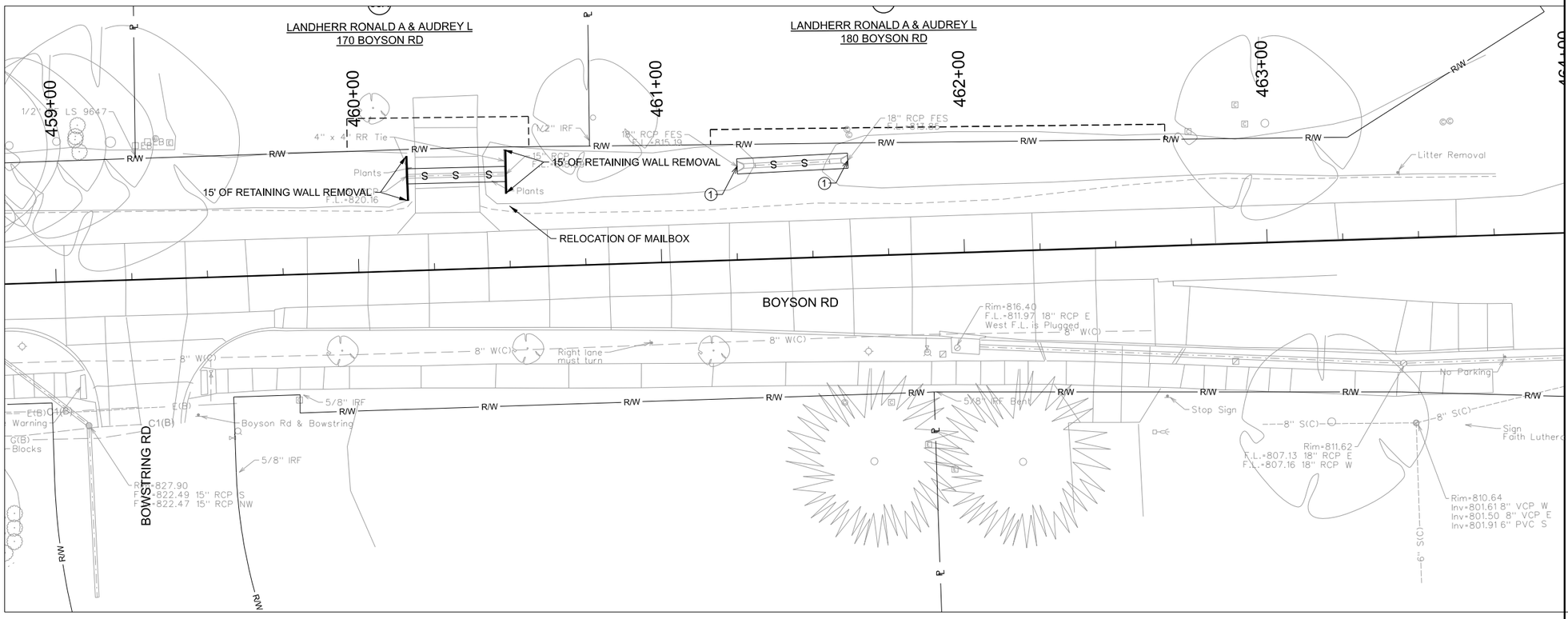
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Project No: 116.0663

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NOTES

(1) REMOVAL OF APRON

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

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	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.: Pg:
Technician: KMM Date: 5/8/2026
Project No: 116.0663
Sheet Q.15

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

PROJECT REMOVALS

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Project No: 116.0663
Sheet Q.15

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8/15/22

TABULATION OF SILT FENCES

Refer to EC-201

Line No.	Station From	Station To	Side	Length (FT)	Remarks
1.0	14+85.37	15+00.73	Right	21.30	
2.0	17+26.78	23+10.00	Left	608.80	
3.0	24+80.06	25+01.92		1010.40	
4.0	26+68.30	26+71.63	Left	14.00	
5.0	28+46.78	28+47.72		232.30	
6.0	29+98.96	29+90.20		285.60	
7.0	30+02.12	30+22.11		963.40	
8.0	30+34.34	32+69.69	Right	242.80	
9.0	30+37.11	32+75.91	Left	243.40	
10.0	30+44.63	30+49.85	Left	24.60	
11.0	30+52.16	30+45.64	Right	25.20	
12.0	30+75.24	31+55.27	Right	91.50	
13.0	30+86.96	30+86.23	Left	16.30	
14.0	30+87.85	30+88.22	Right	17.30	
15.0	31+26.46	31+26.04	Left	9.50	
16.0	31+24.64	31+30.40	Right	19.30	
17.0	31+66.29	31+65.32	Left	4.20	
18.0	31+65.00	31+66.78	Right	8.60	
19.0	32+05.38	32+04.27	Left	4.90	
20.0	32+04.21	32+05.03	Right	4.80	
21.0	32+44.48	32+43.23	Left	5.50	
22.0	32+44.75	32+44.00	Right	11.40	
23.0	33+17.50	33+20.00		748.10	
24.0	123+06.31	125+12.09	Left	199.70	

TOTAL SILT FENCE (LF) - 4812.9

100_37
4/16/24

GRATE INTAKE SEDIMENT FILTER BAG

Possible Standard Road Plan : EC-604

Line No.	Location Station	Side	Installation (Each)	Maintenance (Each)	Removal (Each)	Remarks
1.0	26+69.97	Left	1.0	1	1.0	
2.0	110+43.68	Right	1.0	1	1.0	
3.0	113+60.28	Right	1.0	1	1.0	
4.0	114+71.84	Right	1.0	1	1.0	
5.0	115+66.92	Right	1.0	1	1.0	
6.0	213+37.21	Left	1.0	1	1.0	
7.0	213+37.70	Right	1.0	1	1.0	
8.0	214+13.66	Right	1.0	1	1.0	
9.0	215+48.34	Right	1.0	1	1.0	
10.0	217+42.48	Right	1.0	1	1.0	
11.0	218+36.16	Right	1.0	1	1.0	
12.0	220+08.73	Right	1.0	1	1.0	
13.0	454+99.14	Left	1.0	1	1.0	
14.0	455+40.00	Left	1.0	1	1.0	

TOTAL GRATE INTAKE SEDIMENT FILTER BAG, EC-604 (EA) - 14

100_36
8/15/22

OPEN-THROAT CURB INTAKE SEDIMENT FILTER

Possible Standard: EC-602

Line No.	Station	Side	Installation (LF)	Maintenance (Each)	Removal (Each)	Remarks
1.0	15+13.88	Left	11.0	1	1.0	
2.0	15+14.02	Right	11.0	1	1.0	
3.0	20+41.18	Left	11.0	1	1.0	
4.0	20+41.35	Right	11.0	1	1.0	
5.0	22+21.87	Left	12.0	1	1.0	
6.0	22+24.55	Right	12.0	1	1.0	
7.0	22+79.57	Left	12.0	1	1.0	
8.0	23+63.20	Right	11.0	1	1.0	
9.0	23+64.21	Left	11.0	1	1.0	
10.0	24+62.55	Left	10.0	1	1.0	
11.0	24+62.74	Right	10.0	1	1.0	
12.0	25+86.95	Left	11.0	1	1.0	
13.0	25+88.22	Right	12.0	1	1.0	
14.0	33+00.59	Left	12.0	1	1.0	
15.0	33+00.48	Right	12.0	1	1.0	
16.0	109+74.25	Right	11.0	1	1.0	
17.0	110+36.90	Right	11.0	1	1.0	
18.0	111+23.24	Right	11.0	1	1.0	
19.0	113+51.40	Left	11.0	1	1.0	
20.0	114+66.96	Left	11.0	1	1.0	
21.0	213+54.61	Right	11.0	1	1.0	
22.0	213+78.22	Right	11.0	1	1.0	
23.0	217+37.81	Right	12.0	1	1.0	
24.0	218+36.81	Left	11.0	1	1.0	
25.0	220+11.26	Left	11.0	1	1.0	
26.0	320+48.80	Left	11.0	1	1.0	
27.0	123+22.73	Left	12.0	1	1.0	
28.0	451+74.71	Left	11.0	1	1.0	
29.0	451+74.71	Right	11.0	1	1.0	
30.0	455+92.54	Left	11.0	1	1.0	
31.0	458+73.29	Left	11.0	1	1.0	
32.0	461+92.25	Left	11.0	1	1.0	

TOTAL OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602 (LF) - 358
TOTAL MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER (EA) - 32
TOTAL REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER (EA) - 32

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FLOATING SILT CURTAINS

Refer to EC-202

Line No.	Station	Hanging (LF)	Maintenance of Floating Silt Curtain (LF)	Remarks
1.0	26+39.60	569.0	285.0	26+39.60 to 28+92.87
2.0	28+23.84	493.0	247.0	28+23.84 to 29+81.53

TOTAL FLOATING SILT CURTAIN (HANGING) (LF) - 1062
TOTAL MAINTENANCE OF FLOATING SILT CURTAIN (LF) - 532

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet RC.1

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EROSION AND SEDIMENT CONTROL - NOTES

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

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Project No: 116.0663

Sheet RC.1

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ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	Rock Erosion Control Type	Engineering Fabric (SY)	Class E Revetment (TON)	Remarks
1.0	Alburnett	26+44.13	26+56.91	Left	10.00	12.0	Type 4 - Rock Splash Basin	7.6	3.800	
2.0	Alburnett	26+67.06	26+72.04	Left	3.00	5.0	Type 4 - Rock Splash Basin	1.3	0.700	
3.0	Alburnett	26+69.23	26+81.21	Left	10.00	12.0	Type 4 - Rock Splash Basin	8.4	4.100	
4.0	Alburnett	26+45.70	27+06.63	Left	26.00	58.0	Type 5 - Rock Slope Protection	165.2	81.800	
5.0	Alburnett	29+69.37	29+79.48	Left	10.00	12.0	Type 4 - Rock Splash Basin	8.3	4.100	
6.0	Alburnett	29+85.40	29+98.06	Right	10.00	12.0	Type 4 - Rock Splash Basin	8.3	4.100	
7.0	Alburnett	30+34.83	30+44.94	Left	10.00	12.0	Type 4 - Rock Splash Basin	8.3	4.100	
8.0	Alburnett	30+31.35	30+44.13	Right	10.00	12.0	Type 4 - Rock Splash Basin	8.3	4.100	
9.0	8th Ave	211+65.49	211+76.50	Left	10.00	14.3	Type 4 - Rock Splash Basin	7.6	3.800	
10.0	Boyson	462+38.08	462+49.81	Left	10.00	12.0	Type 4 - Rock Splash Basin	8.1	4.000	

TOTAL REVETMENT, CLASS E (TON) - 114.6
TOTAL ENGINEERING FABRIC (SY) - 231.4

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ROLLED EROSION CONTROL

Refer to EC-101, EC-103 and EC-104.

Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	Slope Protection (EC-103) (Squares)	Remarks
1.0	Alburnett	12+61.19	13+92.50	Left	141.0	5.0	6.0	
2.0	Alburnett	13+97.50	14+68.57	Left	71.0	7.0	4.0	
3.0	Alburnett	14+58.75	15+57.80	Right	96.0	31.0	30.0	
4.0	Alburnett	14+98.43	16+29.25	Left	115.0	13.0	13.0	
5.0	Alburnett	18+48.85	25+30.83	Left	660.0	24.0	100.0	
6.0	Alburnett	123+15.43	124+33.41	Right	274.0	7.0	19.0	
7.0	Alburnett	25+38.13	28+99.77		889.0	40.0	339.0	BOTH SIDES
8.0	Alburnett	30+10.43	34+03.92	Right	466.0	30.0	129.0	
9.0	Alburnett	30+22.11	33+91.61	Left	405.0	20.0	83.0	
10.0	Alburnett	30+31.24	32+57.58	Right	233.0	25.0	59.0	
11.0	Alburnett	30+32.62	32+70.67	Left	242.0	17.0	60.0	
12.0	7th Ave	108+60.00	111+55.33	Left	306.0	4.0	13.0	
13.0	7th Ave	109+31.29	110+99.50	Right	182.0	6.0	10.0	
14.0	7th Ave	112+81.95	113+30.00	Left	53.0	5.0	3.0	
15.0	7th Ave	114+65.00	114+85.87	Left	21.0	5.0	1.0	
16.0	7th Ave	114+99.50	115+34.76	Left	35.0	9.0	3.0	
17.0	7th Ave	115+37.09	115+52.26	Left	15.2	9.0	1.0	
18.0	7th Ave	115+63.23	115+72.26	Left	9.0	6.0	1.0	
19.0	8th Ave	215+55.49	216+32.63	Right	76.2	6.0	4.0	
20.0	Boyson	462+41.06	462+98.40	Left	55.0	9.0	5.0	

TOTAL SLOPE PROTECTION, WOOD EXCELSIOR MAT (SQ) - 883

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/12/2026 Pg:

Project No: 116.0663

Sheet RC.2

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EROSION AND SEDIMENT CONTROL - NOTES

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

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Project No: 116.0663

Sheet RC.2

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PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
1.0	13+25.66	14+63.48	Left	Perimeter and Slope	12 inch	147.00	
2.0	13+44.42	14+31.32	Right	Perimeter and Slope	12 inch	89.00	
3.0	14+63.31	15+56.92	Right	Perimeter and Slope	12 inch	105.00	
4.0	14+97.08	16+33.87	Left	Perimeter and Slope	12 inch	151.00	
5.0	15+70.26	16+34.11	Right	Perimeter and Slope	12 inch	74.00	
6.0	17+26.48	17+81.89	Right	Perimeter and Slope	12 inch	67.00	
7.0	17+27.47	28+40.86	Left	Perimeter and Slope	12 inch	1150.00	
8.0	17+93.21	18+87.68	Right	Perimeter and Slope	12 inch	105.00	
9.0	19+07.85	19+72.96	Right	Perimeter and Slope	12 inch	72.00	
10.0	20+14.65	20+73.52	Right	Perimeter and Slope	12 inch	74.00	
11.0	20+91.08	21+63.82	Right	Perimeter and Slope	12 inch	83.00	
12.0	21+74.46	22+45.66	Right	Perimeter and Slope	12 inch	89.00	
13.0	22+83.23	25+29.26	Right	Perimeter and Slope	12 inch	272.00	
14.0	25+40.32	28+40.59	Right	Perimeter and Slope	12 inch	308.00	
15.0	30+82.65	33+50.00	Right	Perimeter and Slope	12 inch	276.00	
16.0	30+82.69	33+50.00	Left	Perimeter and Slope	12 inch	274.00	
17.0	54+20.91	54+79.25	Right	Perimeter and Slope	12 inch	65.00	
18.0	54+21.48	54+80.81	Left	Perimeter and Slope	12 inch	65.00	
19.0	55+50.44	56+49.33	Left	Perimeter and Slope	12 inch	129.00	
20.0	55+67.80	56+49.52	Right	Perimeter and Slope	12 inch	90.00	
21.0	107+98.57	111+96.94	Left	Perimeter and Slope	12 inch	416.00	
22.0	107+99.92	108+85.85	Right	Perimeter and Slope	12 inch	90.00	
23.0	109+27.06	112+73.16	Right	Perimeter and Slope	12 inch	353.00	
24.0	112+84.77	113+94.90	Left	Perimeter and Slope	12 inch	124.00	
25.0	112+86.20	113+95.31	Right	Perimeter and Slope	12 inch	107.00	
26.0	114+07.87	114+84.35	Left	Perimeter and Slope	12 inch	87.73	
27.0	114+56.70	115+25.94	Right	Perimeter and Slope	12 inch	75.71	
28.0	115+01.03	115+49.06	Left	Perimeter and Slope	12 inch	54.67	
29.0	115+59.91	116+04.25	Right	Perimeter and Slope	12 inch	47.95	
30.0	115+63.73	116+04.63	Left	Perimeter and Slope	12 inch	43.98	
31.0	215+49.65	216+41.13	Right	Perimeter and Slope	12 inch	111.53	
32.0	215+55.58	215+65.85	Left	Perimeter and Slope	12 inch	11.30	
33.0	215+81.16	216+31.69	Left	Perimeter and Slope	12 inch	50.72	
34.0	215+83.28	216+41.44	Left	Perimeter and Slope	12 inch	62.13	
35.0	217+21.57	218+06.46	Right	Perimeter and Slope	12 inch	107.21	
36.0	217+30.91	218+79.62	Left	Perimeter and Slope	12 inch	164.25	
37.0	218+27.88	218+42.81	Right	Perimeter and Slope	12 inch	20.53	
38.0	218+56.22	220+81.16	Right	Perimeter and Slope	12 inch	245.30	
39.0	218+98.32	219+50.11	Left	Perimeter and Slope	12 inch	57.00	
40.0	219+61.41	220+82.04	Left	Perimeter and Slope	12 inch	135.00	
41.0	320+33.60	320+97.37	Left	Perimeter and Slope	12 inch	88.00	
42.0	320+33.80	320+95.34	Right	Perimeter and Slope	12 inch	77.00	
43.0	321+07.03	321+81.56	Right	Perimeter and Slope	12 inch	79.00	
44.0	321+10.12	321+80.49	Left	Perimeter and Slope	12 inch	75.00	
45.0	123+05.12	124+87.47	Left	Perimeter and Slope	12 inch	184.00	
46.0	123+05.37	123+60.52	Right	Perimeter and Slope	12 inch	71.00	
47.0	123+99.96	124+87.55	Right	Perimeter and Slope	12 inch	101.00	
48.0	449+05.37	451+26.16	Left	Perimeter and Slope	12 inch	243.00	
49.0	451+34.22	453+08.61	Left	Perimeter and Slope	12 inch	225.00	
50.0	451+85.01	454+68.14	Right	Perimeter and Slope	12 inch	284.00	
51.0	453+21.60	454+64.08	Left	Perimeter and Slope	12 inch	165.00	
52.0	454+13.94	454+82.83	Right	Perimeter and Slope	12 inch	96.00	
53.0	455+53.45	456+13.91	Left	Perimeter and Slope	12 inch	99.00	
54.0	455+59.58	455+98.04	Right	Perimeter and Slope	12 inch	55.00	
55.0	455+69.95	455+84.61	Right	Perimeter and Slope	12 inch	27.00	

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10/15/24

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
56.0	456+29.17	456+83.03	Left	Perimeter and Slope	12 inch	71.00	
57.0	456+93.09	457+83.97	Left	Perimeter and Slope	12 inch	106.00	
58.0	458+04.42	460+19.78	Left	Perimeter and Slope	12 inch	248.00	
59.0	460+41.02	462+42.45	Left	Perimeter and Slope	12 inch	233.00	

TOTAL PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA. (LF) - 8577

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet RC.3

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EROSION AND SEDIMENT CONTROL - NOTES

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663
Sheet RC.3

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:

1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.

B. Contractor:

1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.

C. Subcontractors:

1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or perorming work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices according to Paragraph III, C, 2.

D. RCE/Project Engineer:

1. Is Project Storm Water Manager.
2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
3. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
4. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
6. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
7. Is familiar with the Project PPP and storm water site map.
8. On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.
9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
10. Is signature authority on Notice of Discontinuation.
11. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
12. Makes information to determine permit compliance available to the DNR upon their request.

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POLLUTION PREVENTION PLAN

E. Inspector:

1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Makes information to determine permit compliance available to the DNR upon their request.
3. Conducts joint required inspections of the site with the contractor/subcontractor.
4. Completes an inspection report after each inspection.
5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the construction of a roadway and a new bridge, as well as the reconstruction of the adjacent side streets.

B. This PPP covers approximately 17.6 acres with an estimated 22.6 acres being disturbed. The portion of the PPP covered by this contract has 22.6 acres disturbed.

C. The PPP is located in an area of B-B/D-B and B-B soil association Kenyon - Clyde - Floyd and Dinsdale - Klinger. The estimated weighted average runoff coefficient number for this PPP after completion will be .40.

D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets.

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.

F. Runoff from this work will flow into *List Outlets for Runoff*.

III. CONTROLS

A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.

B. Preserve vegetation in areas not needed for construction.

C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices

1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
   a) Permanently ceased on any portion of the site, or
   b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
4) Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C or R sheets.
5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets. Additional information may be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.

b. Structural Practices

1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
2) Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS
Technician: KMM | Date: 5/12/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet RC.4

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EROSION AND SEDIMENT CONTROL - NOTES

CITY OF MARION, IOWA

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Project No: 116.0663
Sheet RC.4

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POLLUTION PREVENTION PLAN

found on the B or R sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C or R sheets.

c. Storm Water Management
Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS
Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
g. Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
j. Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS
During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES
The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS
A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:
1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
6. Major observations related to the implementation of the PPP.
7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water site inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

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POLLUTION PREVENTION PLAN

VI. NON-STORM WATER DISCHARGES
This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION
Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS
A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
C. Fieldbook Entries – This contains the inspector's daily diary and bid item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

CONSULTANT SIGNATURE

DAX SUNTKEN
PRINTED OR TYPED NAME

CITY SIGNATURE

MICHAEL D. BARKALOW
PRINTED OR TYPED NAME

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet RC.5

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EROSION AND SEDIMENT CONTROL - NOTES

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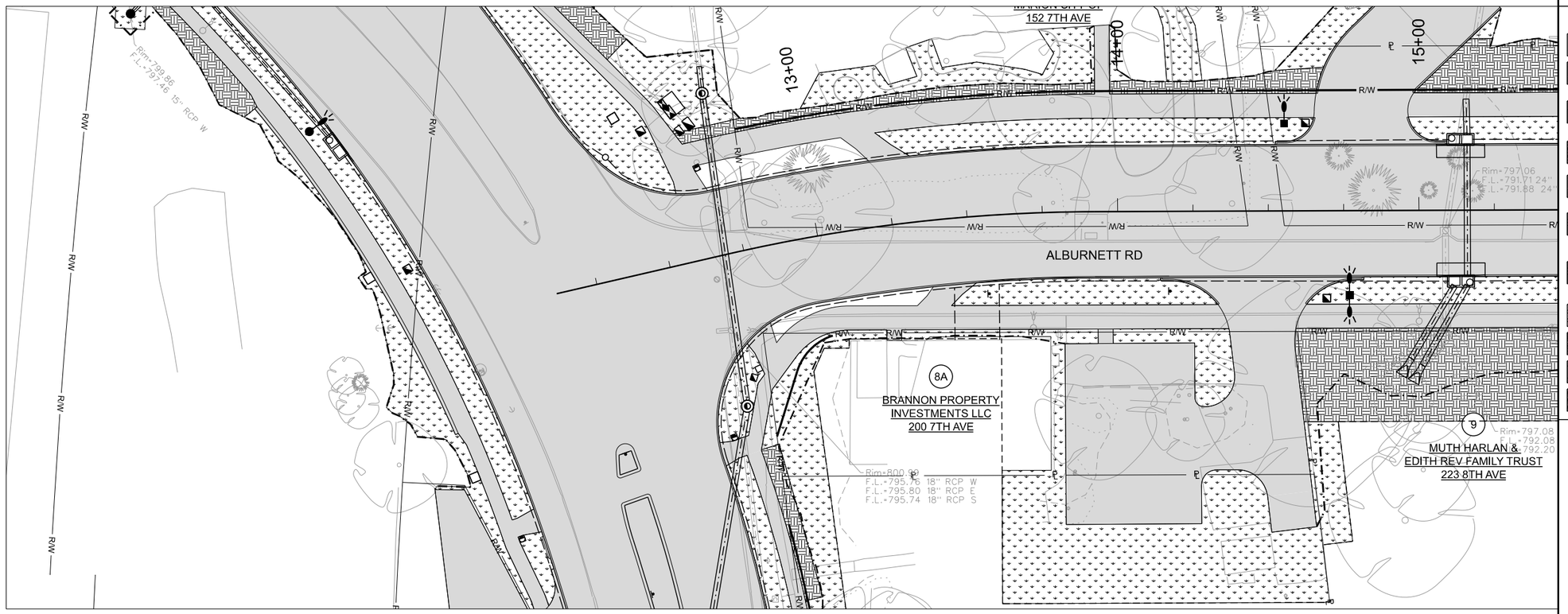
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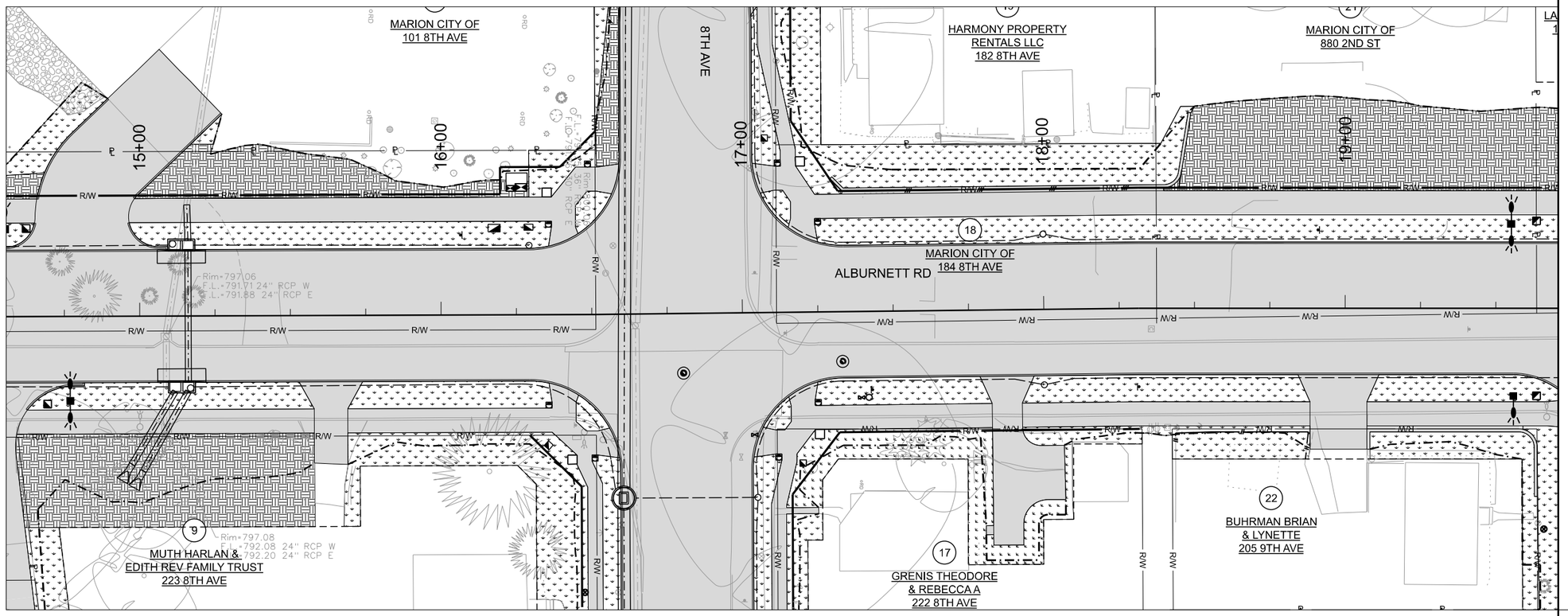
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- PROPOSED PAVEMENT IMPROVEMENTS
- SEEDING AND FERTILIZING (URBAN)
- SEEDING AND FERTILIZING (RURAL)
- WETLAND GRASS SEEDING,WITH AMENDED TOPSOIL
- NATIVE GRASS SEEDING
- WOOD EXCELSIOR MAT WITH SEEDING AND FERTILIZING (URBAN)
- WOOD EXCELSIOR MAT WITH SEEDING AND FERTILIZING (RURAL)
- MULCHING, WOOD CELLULOSE FIBER
- SURFACING, DRIVEWAY, CLASS A CRUSHED STONE
- RIP-RAP
- GRANULAR SHOULDERS, TYPE A



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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

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Technician: KMM Date: 5/8/2026 Pg.:

Project No: 116.0663 Sheet RR.10

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - EROSION CONTROL PLAN

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Technician: KMM | Date: 5/8/2026 | Pg.:

Project No: 116.0663

Sheet RR.11

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - EROSION CONTROL PLAN

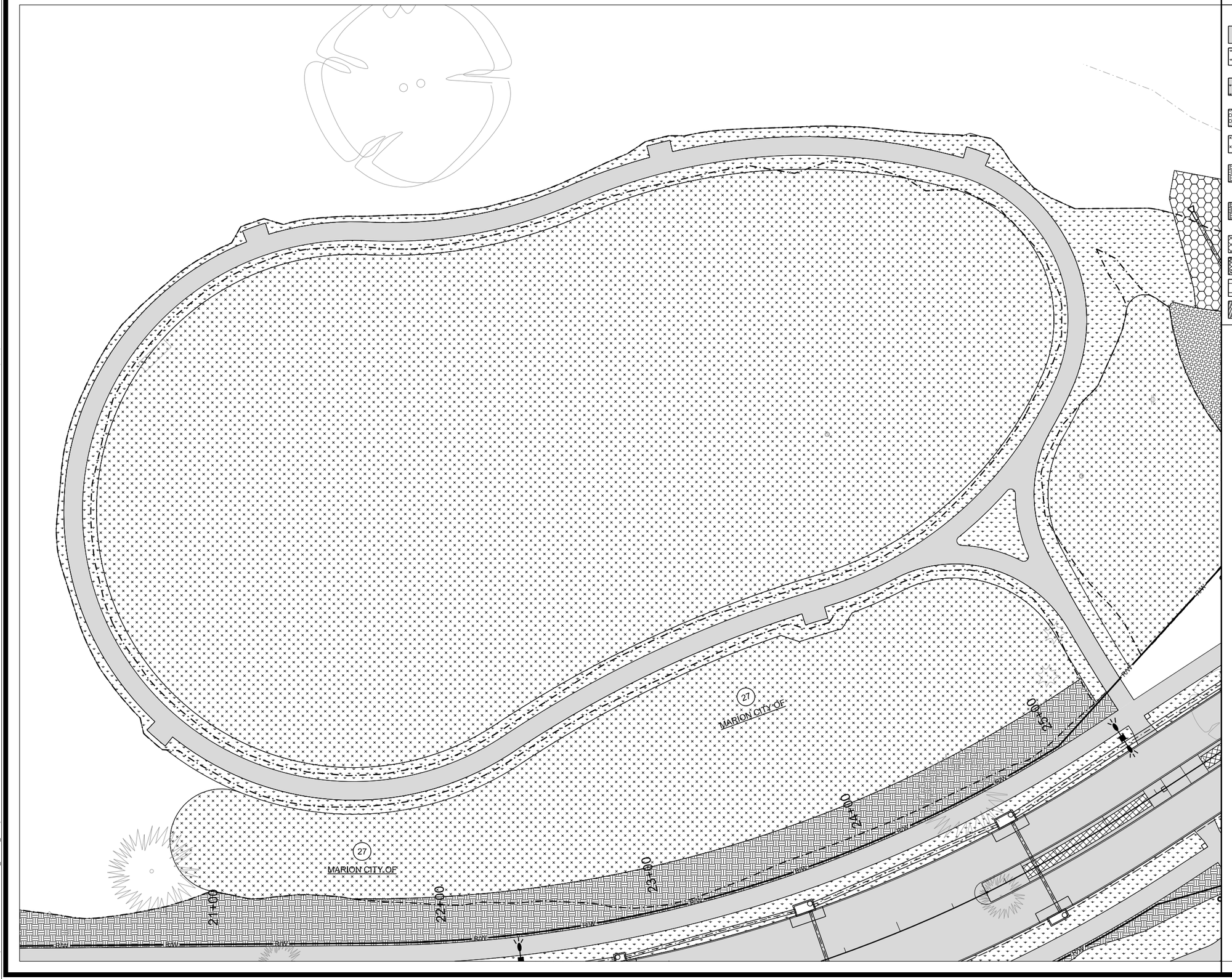
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Technician: KMM | Date: 5/8/2026

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CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - EROSION CONTROL PLAN

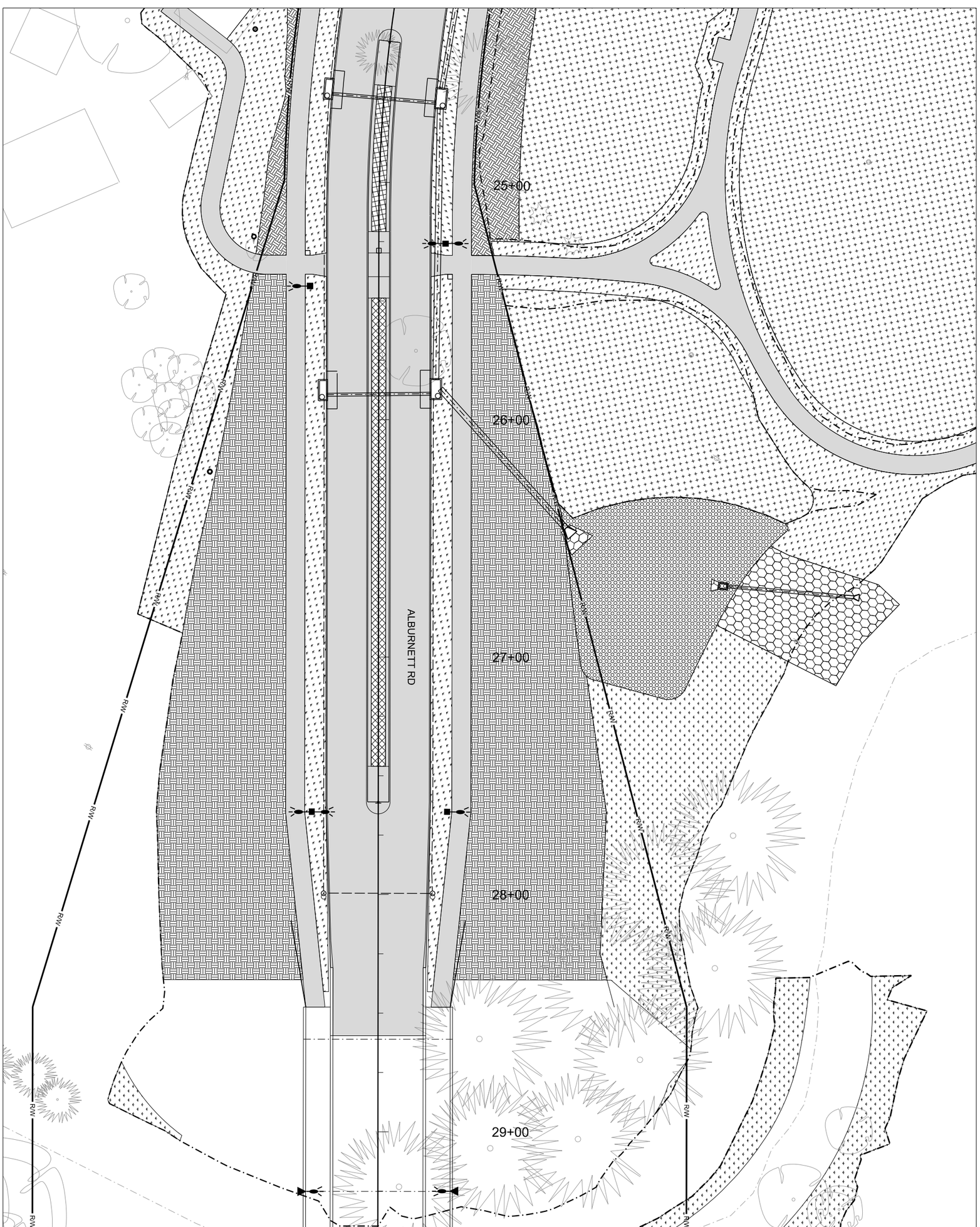
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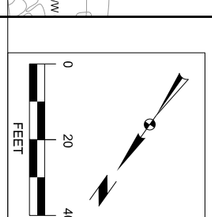
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LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- SEEDING AND FERTILIZING (URBAN)
- SEEDING AND FERTILIZING (RURAL)
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- WOOD EXCELSIOR MATTING WITH SEEDING AND FERTILIZING (URBAN)
- WOOD EXCELSIOR MATTING WITH SEEDING AND FERTILIZING (RURAL)
- MULCHING, WOOD CELLULOSE FIBER
- SURFACING, CRUSHED CLASS A CRUSHED STONE
- RIP-RAP
- GRANULAR SHOULDERS, TYPE A

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

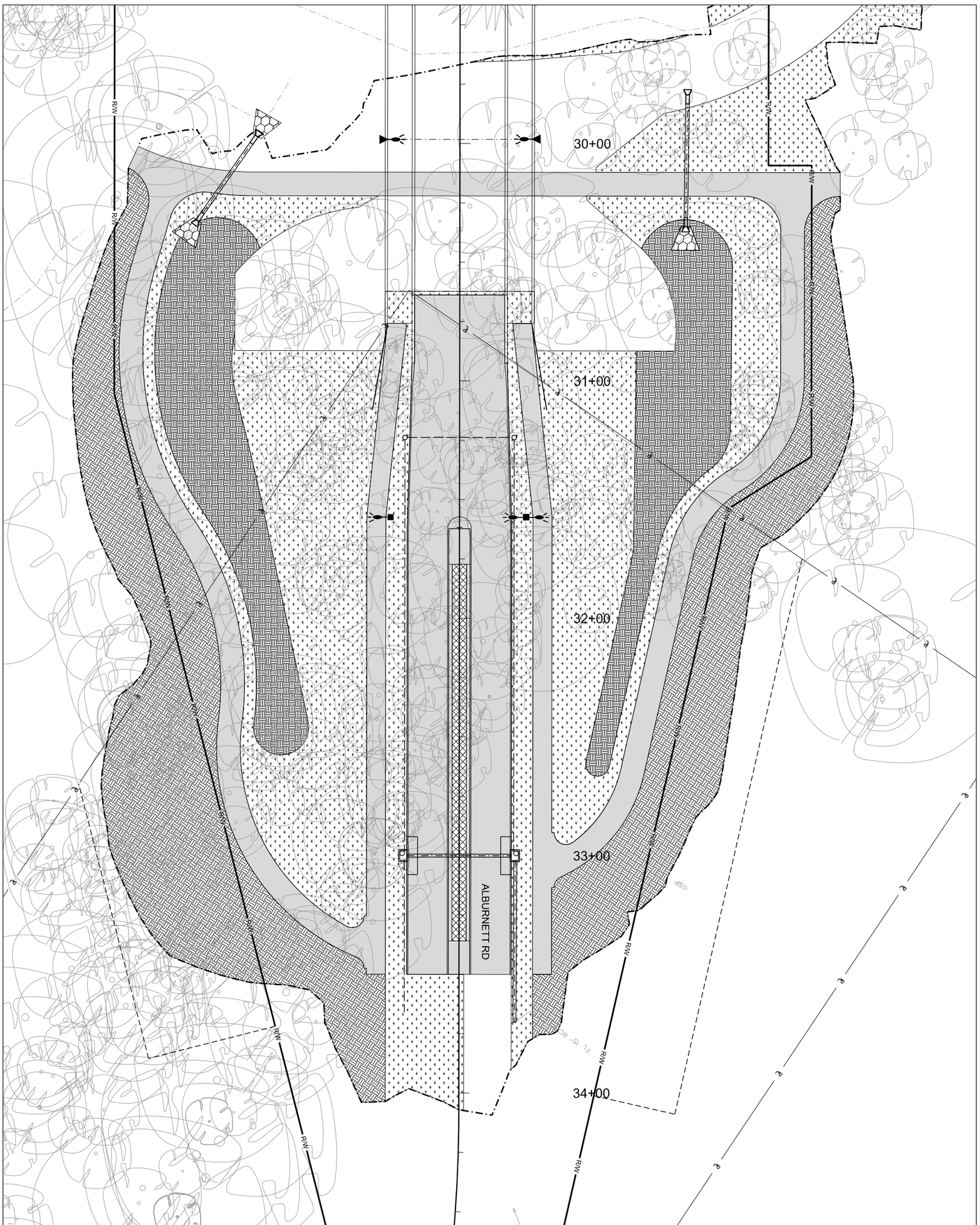
SWPPP - EROSION CONTROL PLAN

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LEGEND

- GRANULAR SHOULDERS, TYPE A
- RIP-RAP
- SURFACING, CRUSHED CLASS A STONE
- MULCHING, WOOD CELLULOSE FIBER
- WOOD EXCELSIOR MATTING, SEEDING AND FERTILIZING (RURAL)
- WOOD EXCELSIOR MATTING, SEEDING AND FERTILIZING (URBAN)
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- SEEDING AND FERTILIZING (RURAL)
- SEEDING AND FERTILIZING (URBAN)
- PROPOSED PAVEMENT IMPROVEMENTS

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

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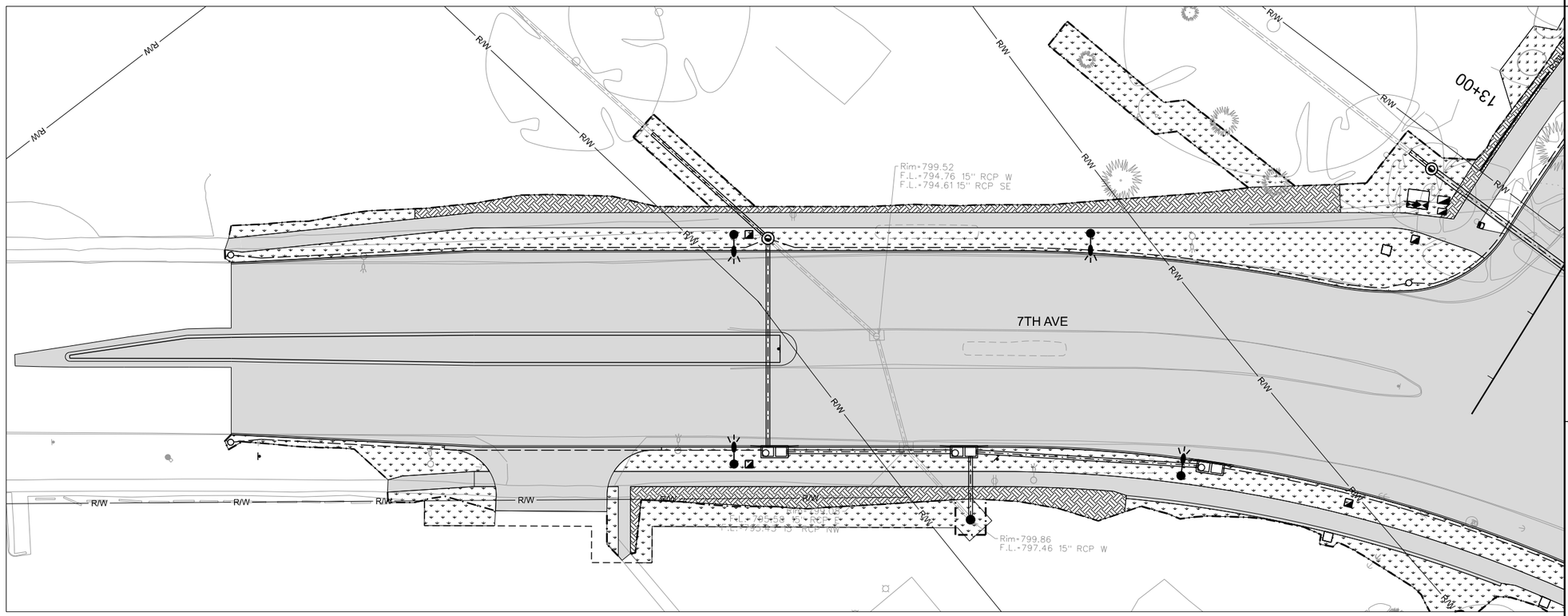
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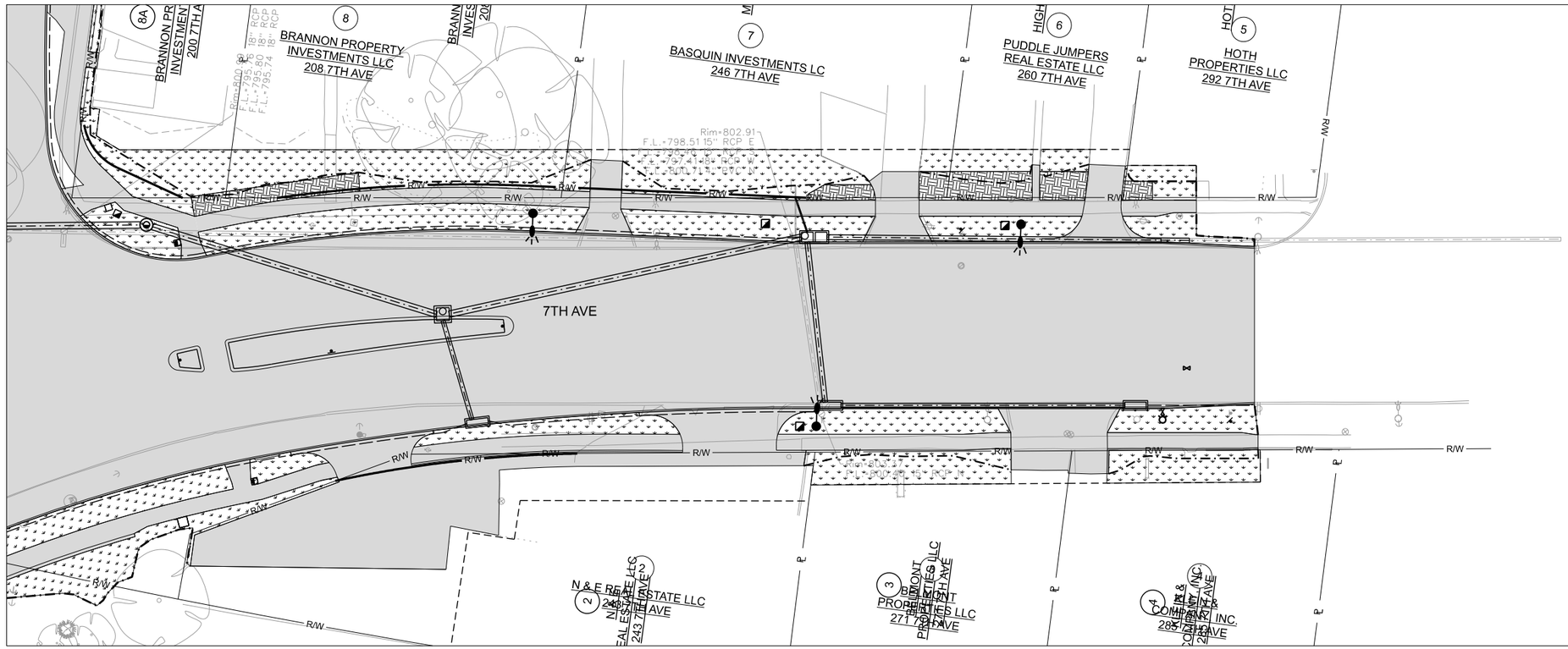
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- PROPOSED PAVEMENT IMPROVEMENTS
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- RIP-RAP
- GRANULAR SHOULDERS, TYPE A

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CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - EROSION CONTROL PLAN

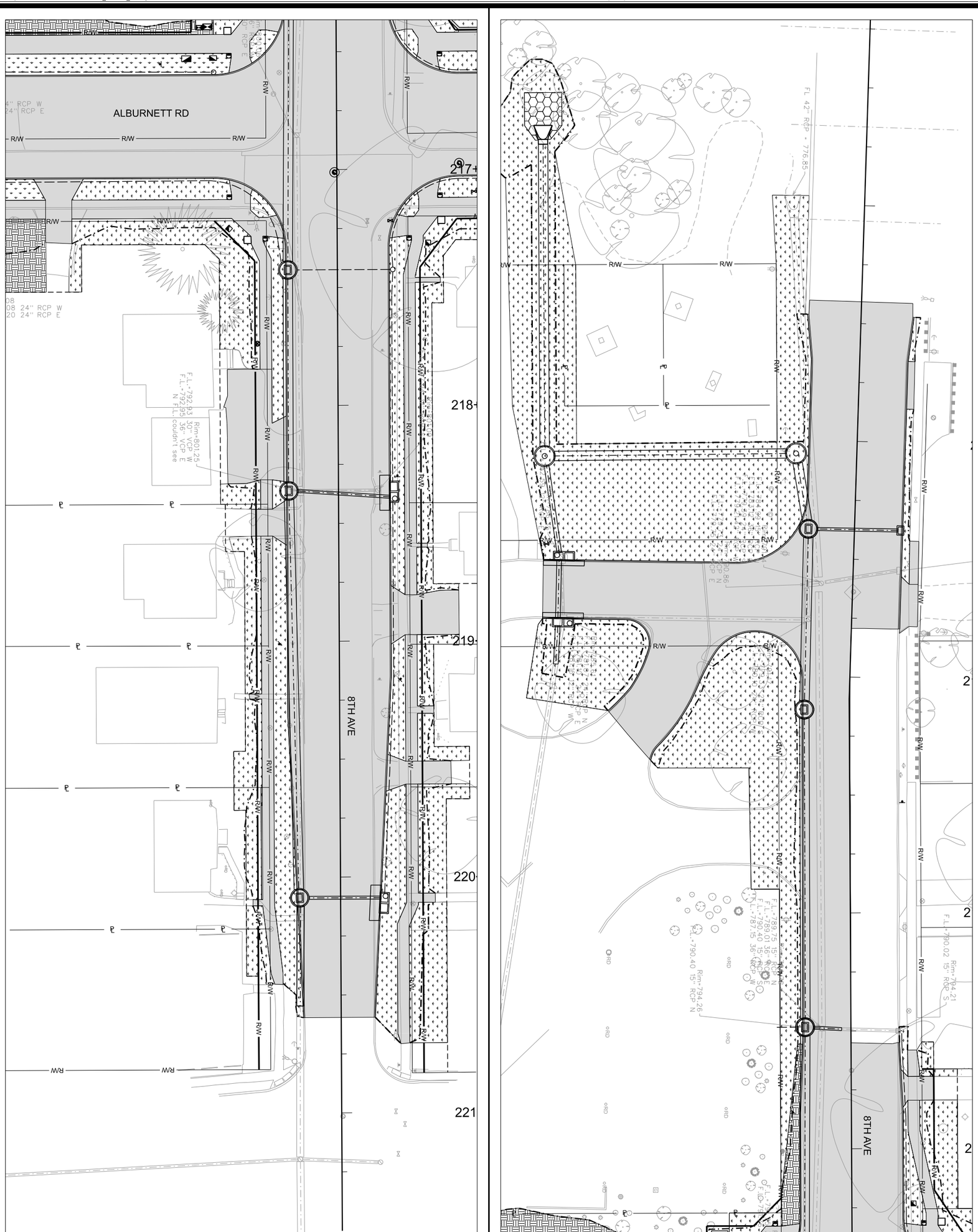
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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - EROSION CONTROL PLAN

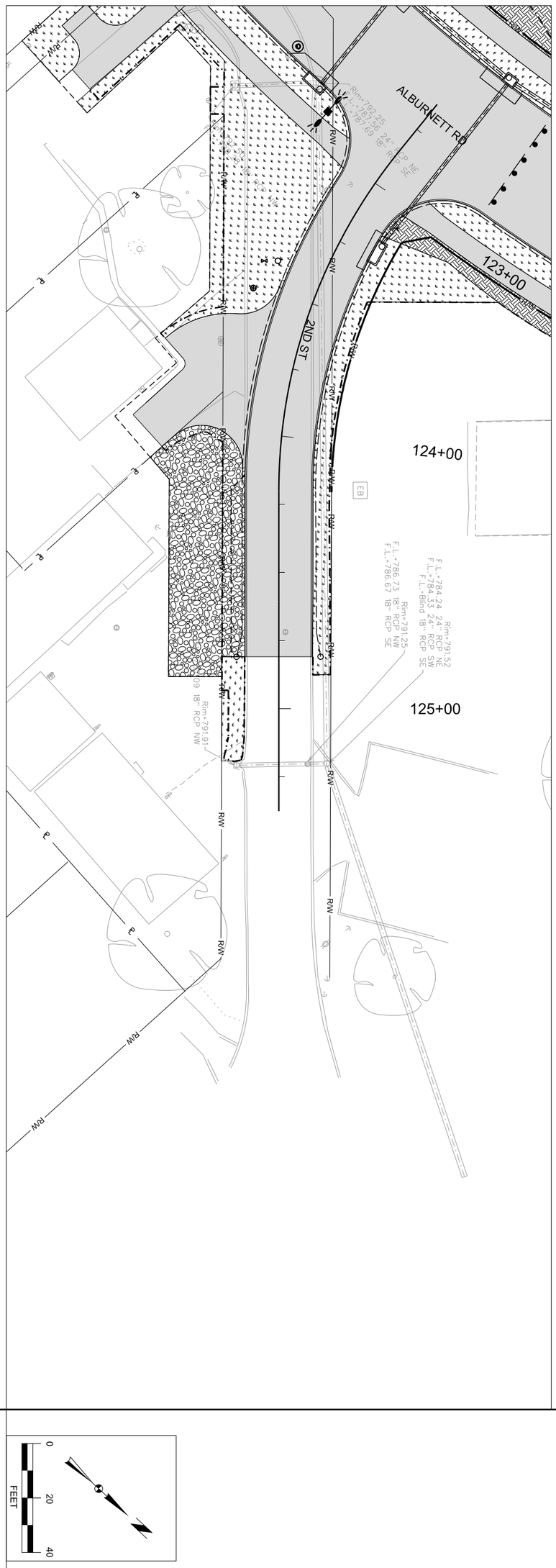
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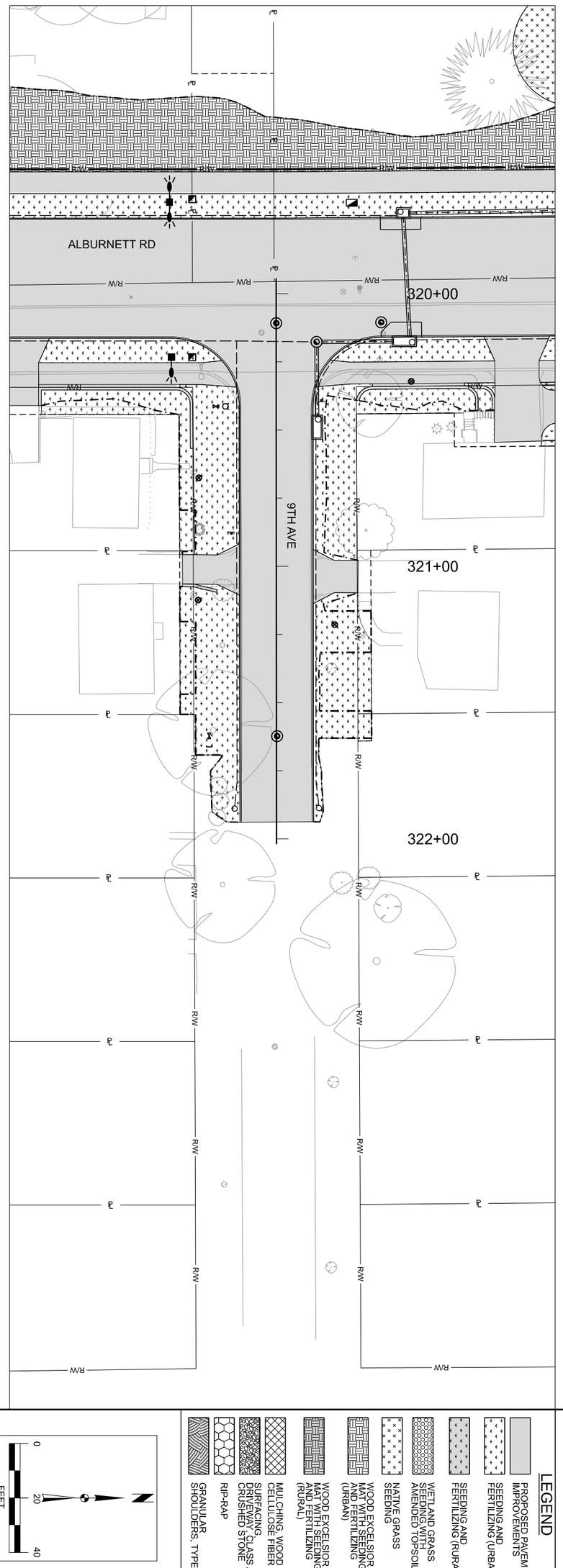
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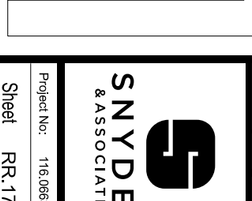
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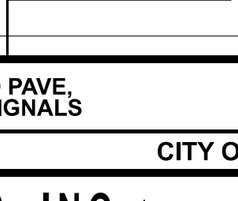
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Technician: KMM	Date: 5/8/2026
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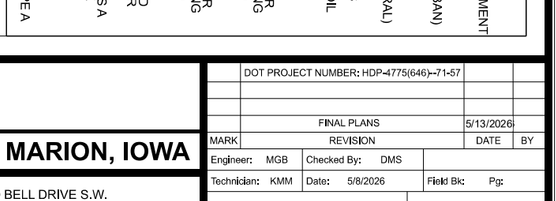
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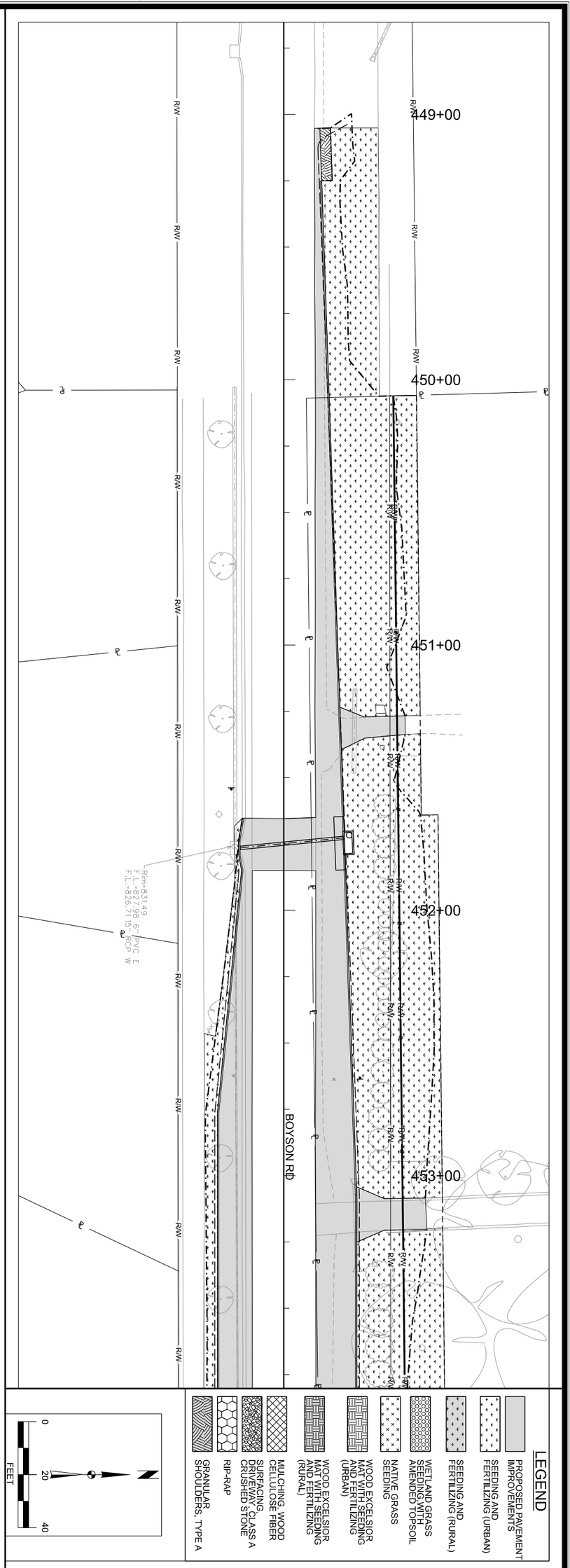
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - EROSION CONTROL PLAN

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Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

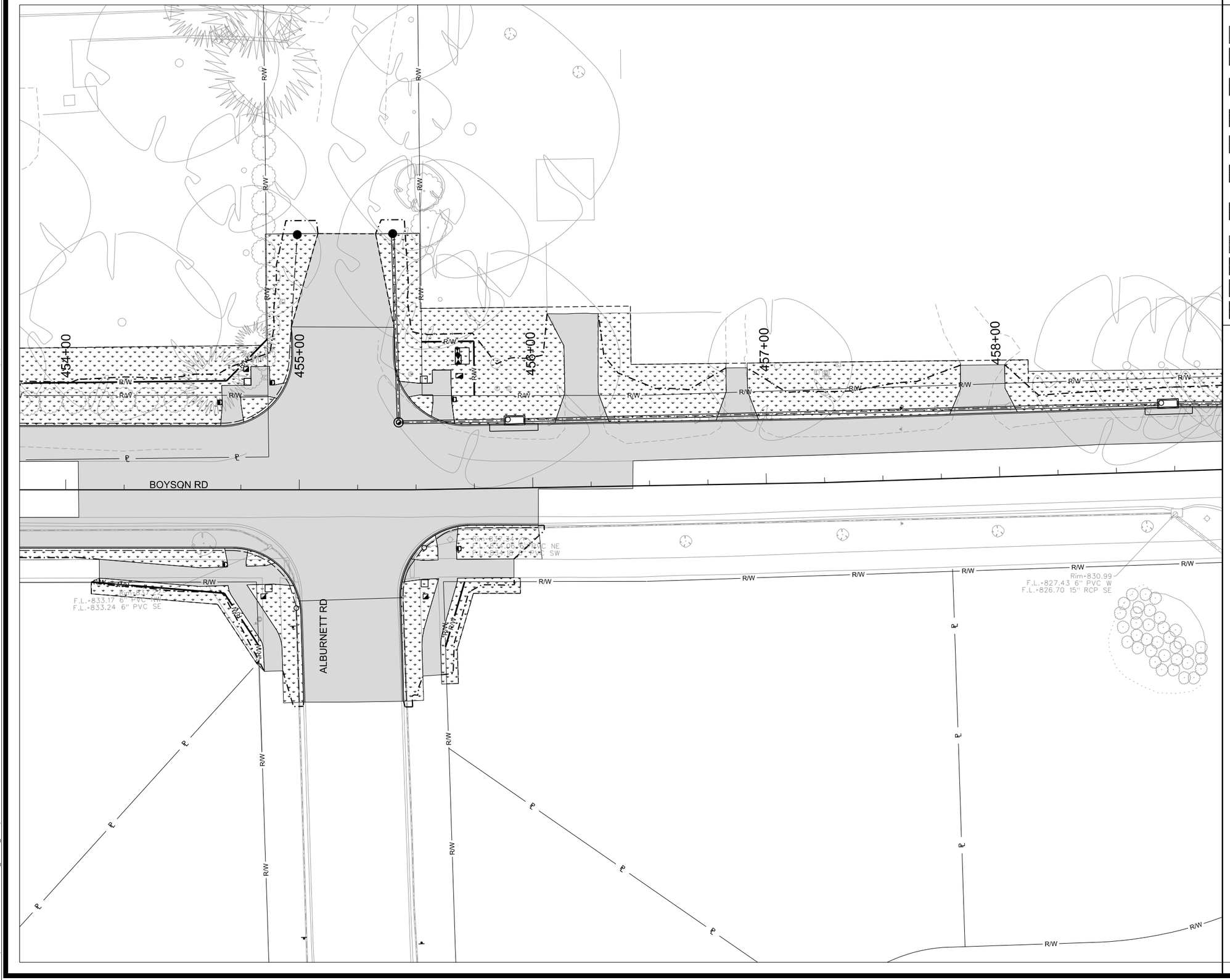
SWPPP - EROSION CONTROL PLAN

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- PROPOSED PAVEMENT IMPROVEMENTS
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Technician: KMM | Date: 5/8/2026

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CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

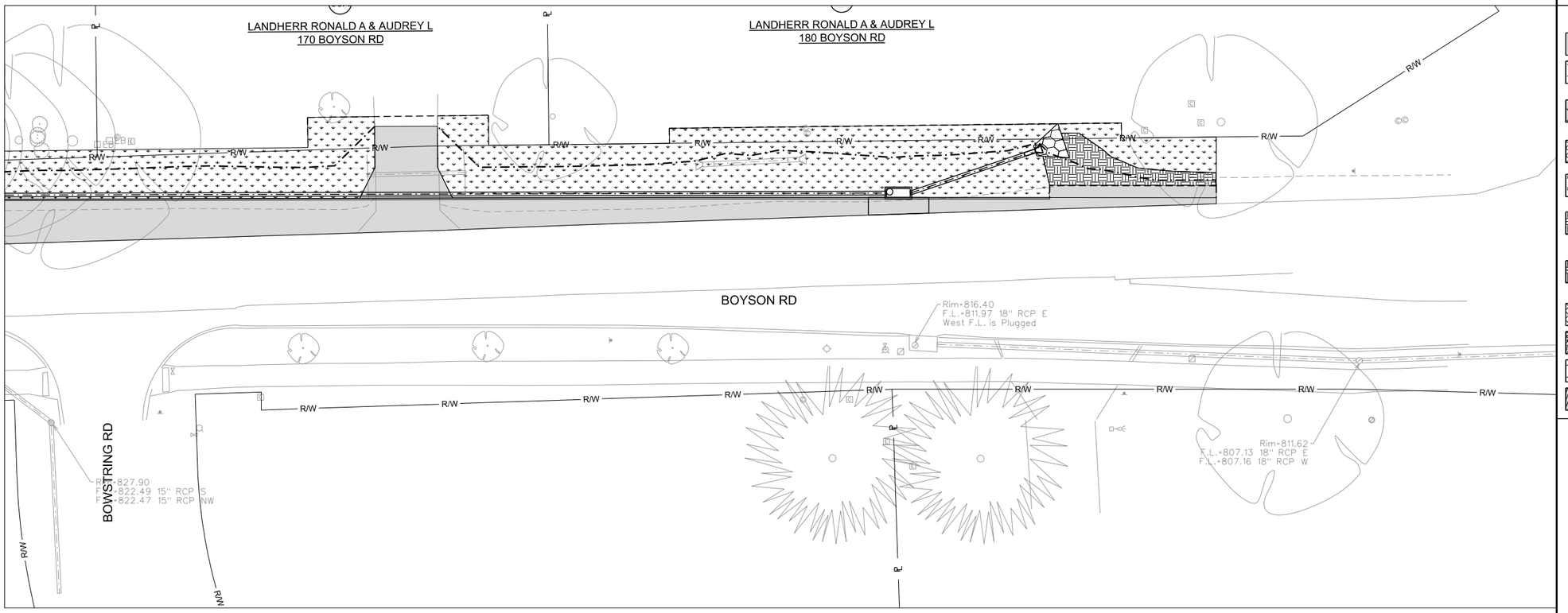
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LEGEND

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- WETLAND GRASS SEEDING WITH AMENDED TOPSOIL
- NATIVE GRASS SEEDING
- WOOD EXCELSIOR MAT WITH SEEDING AND FERTILIZING (URBAN)
- WOOD EXCELSIOR MAT WITH SEEDING AND FERTILIZING (RURAL)
- MULCHING, WOOD CELLULOSE FIBER
- SURFACING, DRIVEWAY, CLASS A CRUSHED STONE
- RIP-RAP
- GRANULAR SHOULDERS, TYPE A

0 20 40
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.: Pg:
Technician: KMM Date: 5/8/2026

Project No: 116.0663

Sheet RR.20

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - EROSION CONTROL PLAN

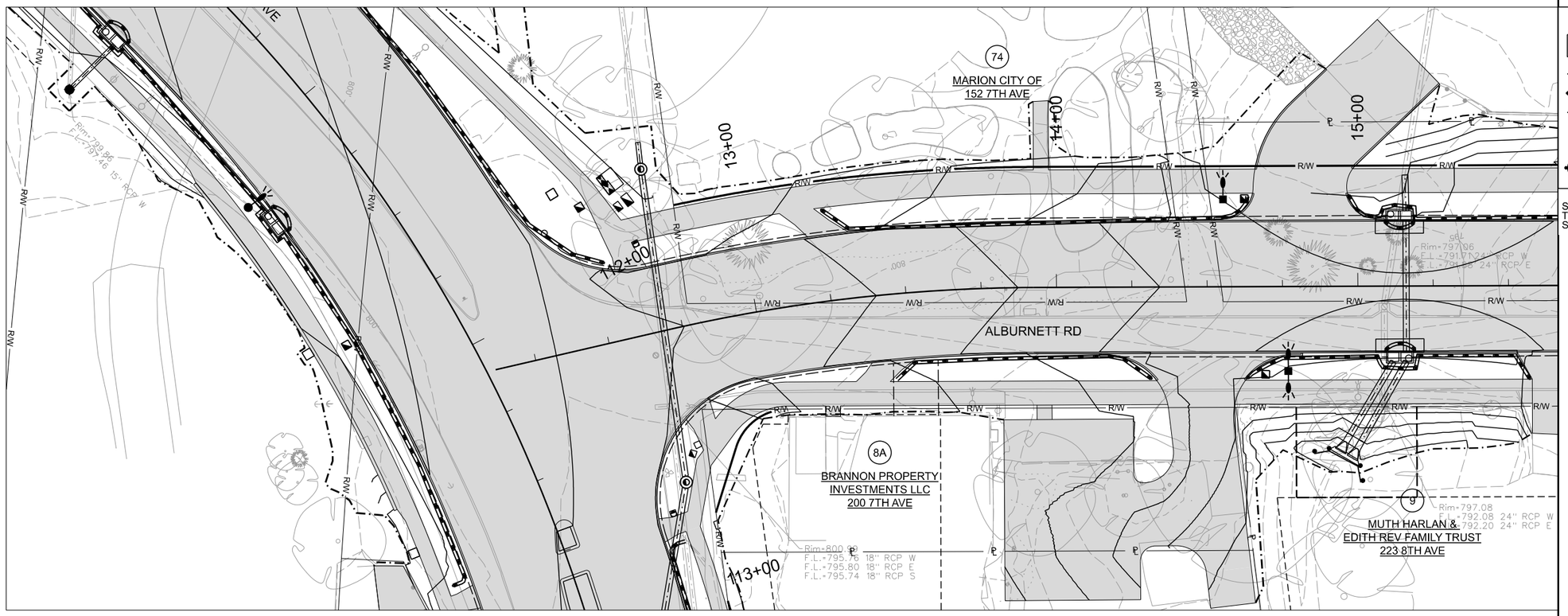
SNYDER & ASSOCIATES, INC.
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319-362-9394 | www.snyder-associates.com

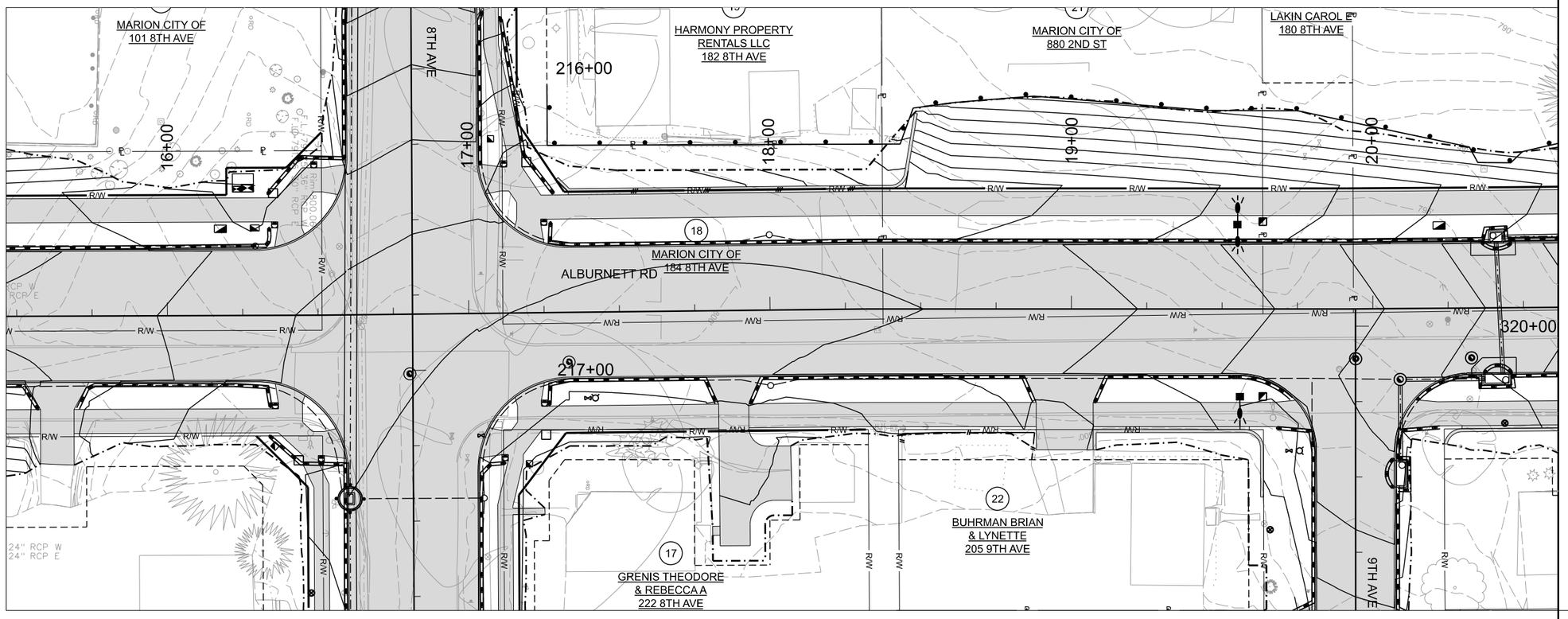
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Project No: 116.0663

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LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- SILT FENCE
- FILTER SOCKS
- FLOATING SILT CURTAIN
- EC-602 (OPEN THROAT INLET PROTECTION DEVICE)
- EC-604 (GRATE INLET PROTECTION DEVICE)

NOTE:
STORM SEWER INTAKE PROTECTION TO BE INSTALLED WITH APPROPRIATE STAGE OF CONSTRUCTION

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk.:
Technician: KMM Date: 5/8/2026 Pg.:

Project No: 116.0663 Sheet RR.21

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - SEDIMENT CONTROL PLAN

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Project No: 116.0663
Sheet RR.21

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LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- SILT FENCE
- FILTER SOCKS
- FLOATING SILT CURTAIN
- EC-602 (OPEN THROAT INLET PROTECTION DEVICE)
- EC-604 (GRATE INLET PROTECTION DEVICE)

NOTE:
STORM SEWER INTAKE PROTECTION TO BE INSTALLED WITH APPROPRIATE STAGE OF CONSTRUCTION

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk.: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet RR.22

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - SEDIMENT CONTROL PLAN

CITY OF MARION, IOWA

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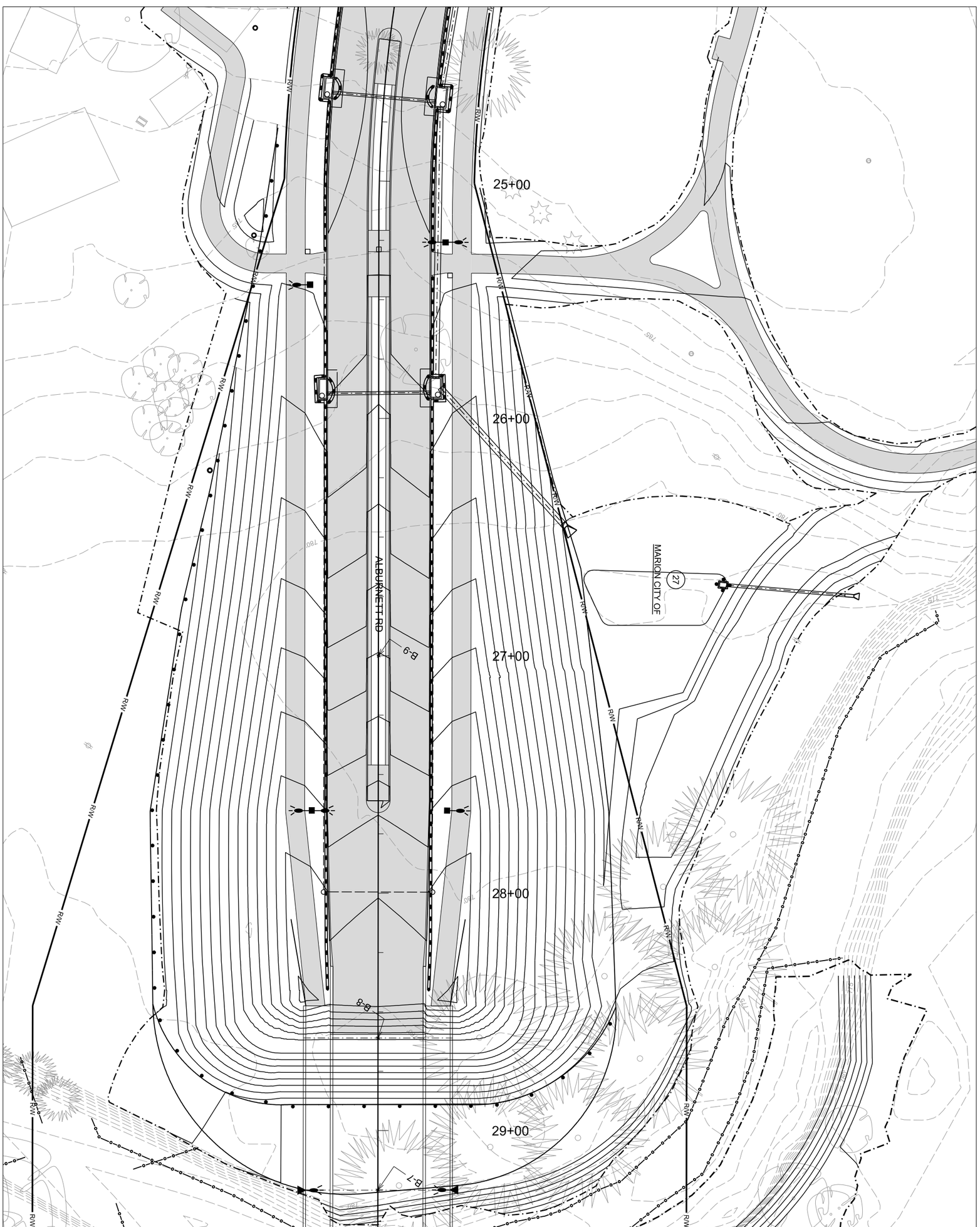
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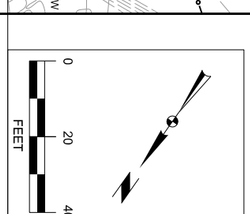
SNYDER & ASSOCIATES

Project No: 116.0663

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

SILT FENCE

FILTER SOCKS

FLOATING SILT CURTAIN

EC-602 (OPEN THROAT INLET PROTECTION DEVICE)

EC-604 (GRATE INLET PROTECTION DEVICE)

NOTE: STORM SEWER INTAKE PROTECTION TO BE INSTALLED WITH APPROPRIATE STAGE OF CONSTRUCTION

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

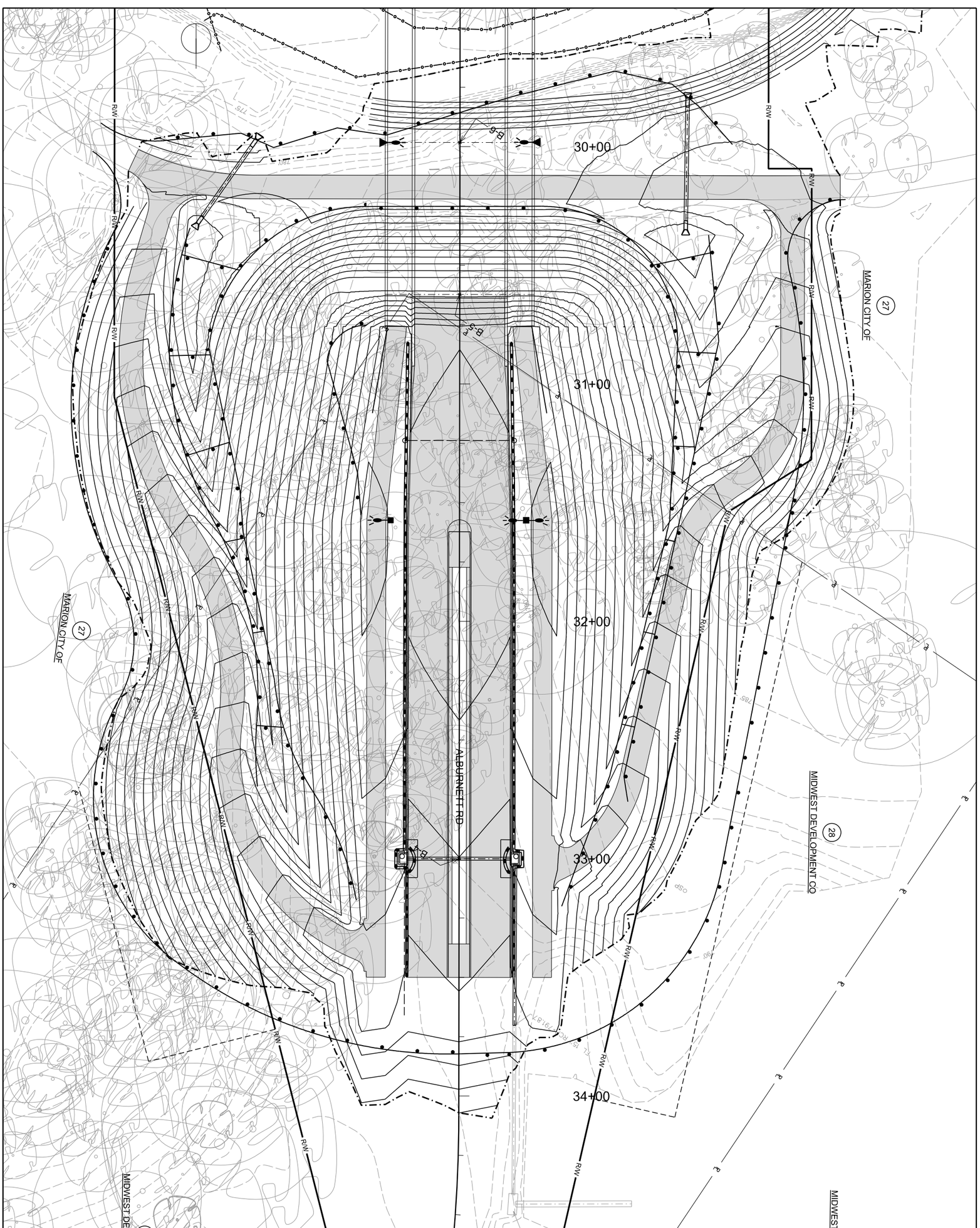
SWPPP - SEDIMENT CONTROL PLAN

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:
Project No: 116.0663		Sheet	RR.23

Project No: 116.0663
Sheet RR.23



LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- SILT FENCE
- FILTER SOCKS
- FLOATING SILT CURTAIN
- EC-602 (OPEN THROAT INLET PROTECTION DEVICE)
- EC-604 (GRATE INLET PROTECTION DEVICE)

NOTE: STORM SEWER INTAKE PROTECTION TO BE INSTALLED WITH APPROPRIATE STAGE OF CONSTRUCTION

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - SEDIMENT CONTROL PLAN

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

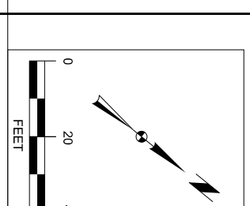
MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS
Technician: KMM | Date: 5/8/2026 | Field Bk: | Pg:

Project No: 116.0663 | Sheet RR.24

Project No: 116.0663
Sheet RR.24





NOTE:
STORM SEWER INTAKE PROTECTION TO BE INSTALLED WITH APPROPRIATE STAGE OF CONSTRUCTION

LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- SILT FENCE
- FILTER SOCKS
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- EC-604 (GRATE INLET PROTECTION DEVICE)

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - SEDIMENT CONTROL PLAN

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	Field Bk:	Pg:
Project No: 116.0663		Sheet	RR.25

Project No: 116.0663
Sheet RR.25

LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- SILT FENCE
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- EC-602 (OPEN THROAT INLET PROTECTION DEVICE)
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NOTE:
STORM SEWER INTAKE PROTECTION TO BE INSTALLED WITH APPROPRIATE STAGE OF CONSTRUCTION

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet RR.26

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - SEDIMENT CONTROL PLAN

CITY OF MARION, IOWA

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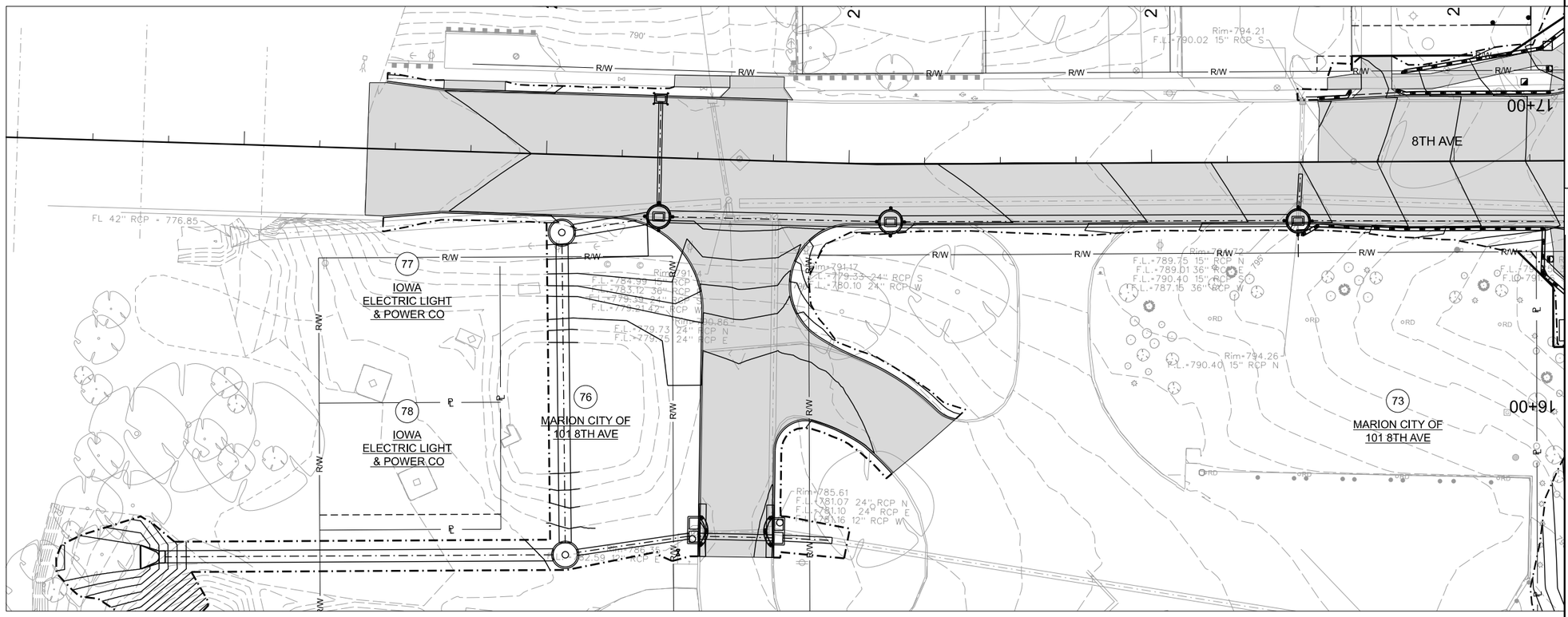
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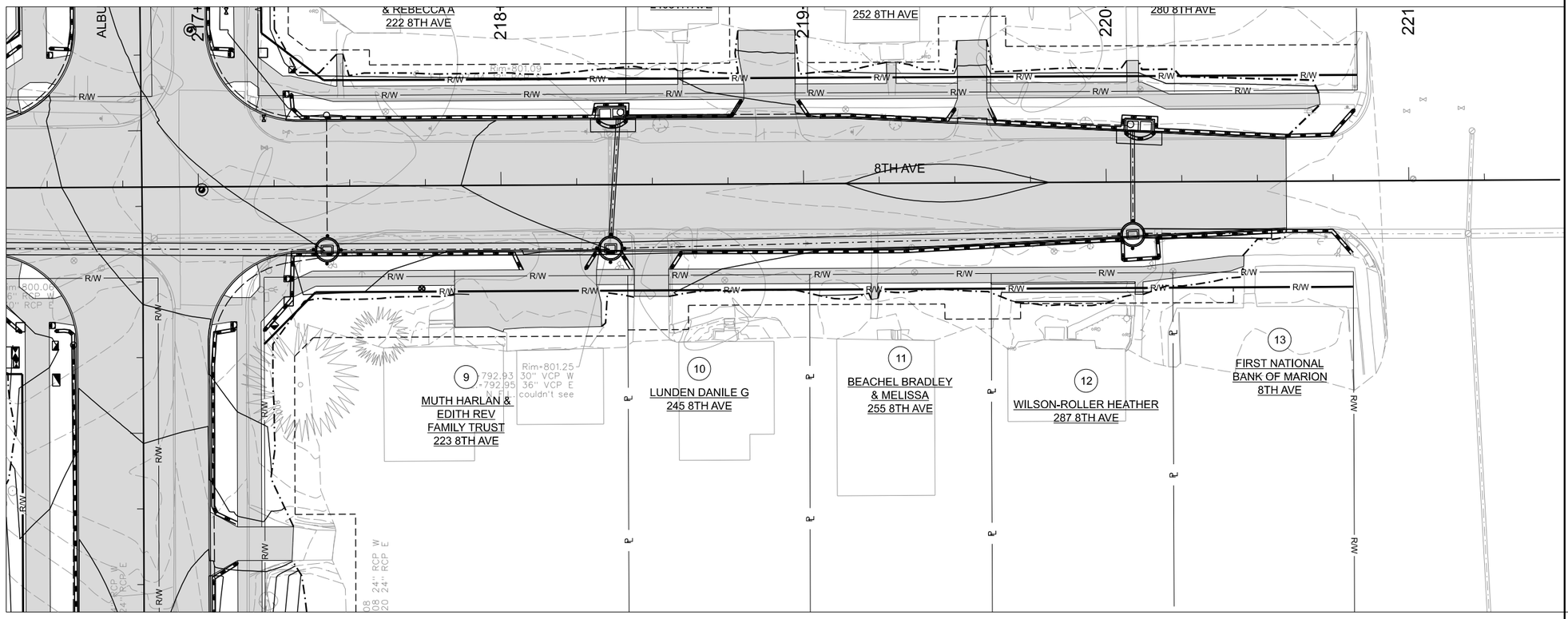
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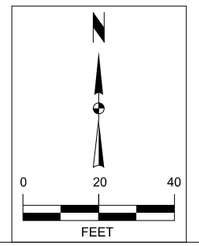




LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- SILT FENCE
- FILTER SOCKS
- FLOATING SILT CURTAIN
- EC-602 (OPEN THROAT INLET PROTECTION DEVICE)
- EC-604 (GRATE INLET PROTECTION DEVICE)

NOTE:
STORM SEWER INTAKE PROTECTION TO BE INSTALLED WITH APPROPRIATE STAGE OF CONSTRUCTION



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk.: | Pg:
Technician: KMM | Date: 5/8/2026 | Project No: 116.0663 | Sheet RR.27

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

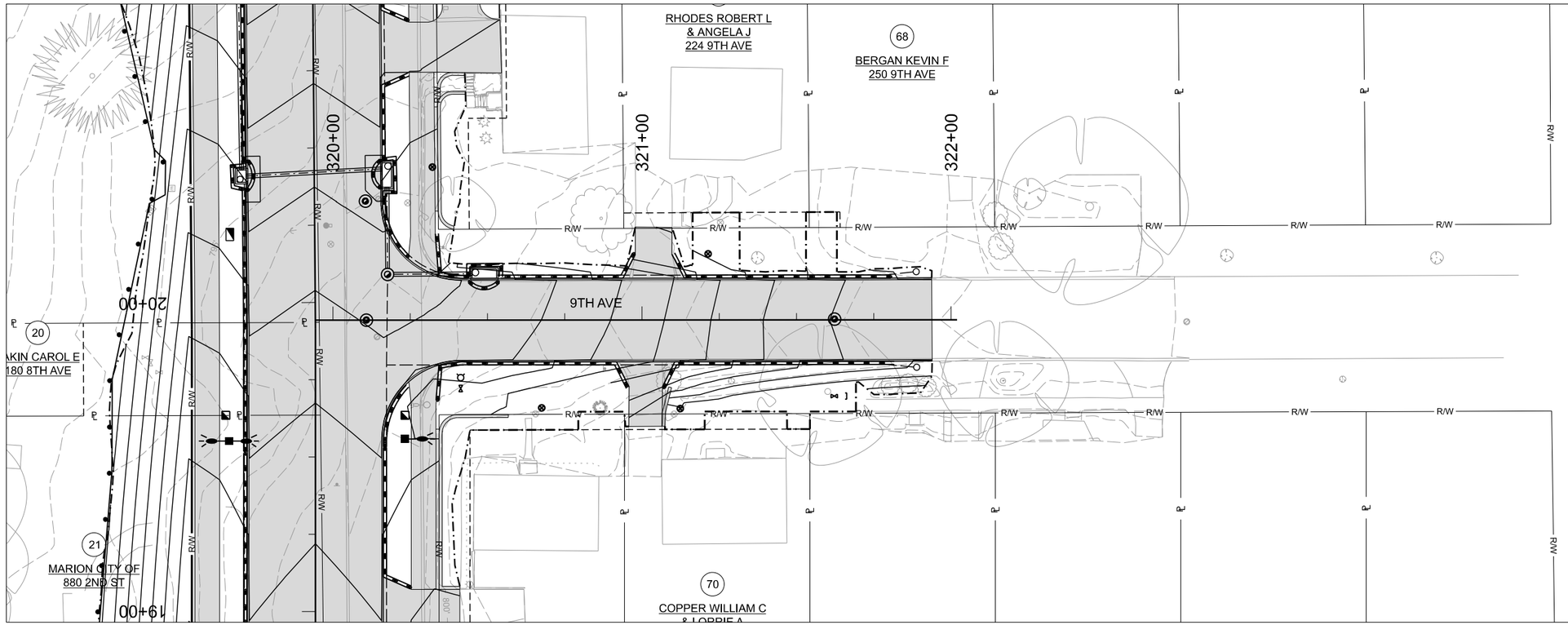
SWPPP - SEDIMENT CONTROL PLAN

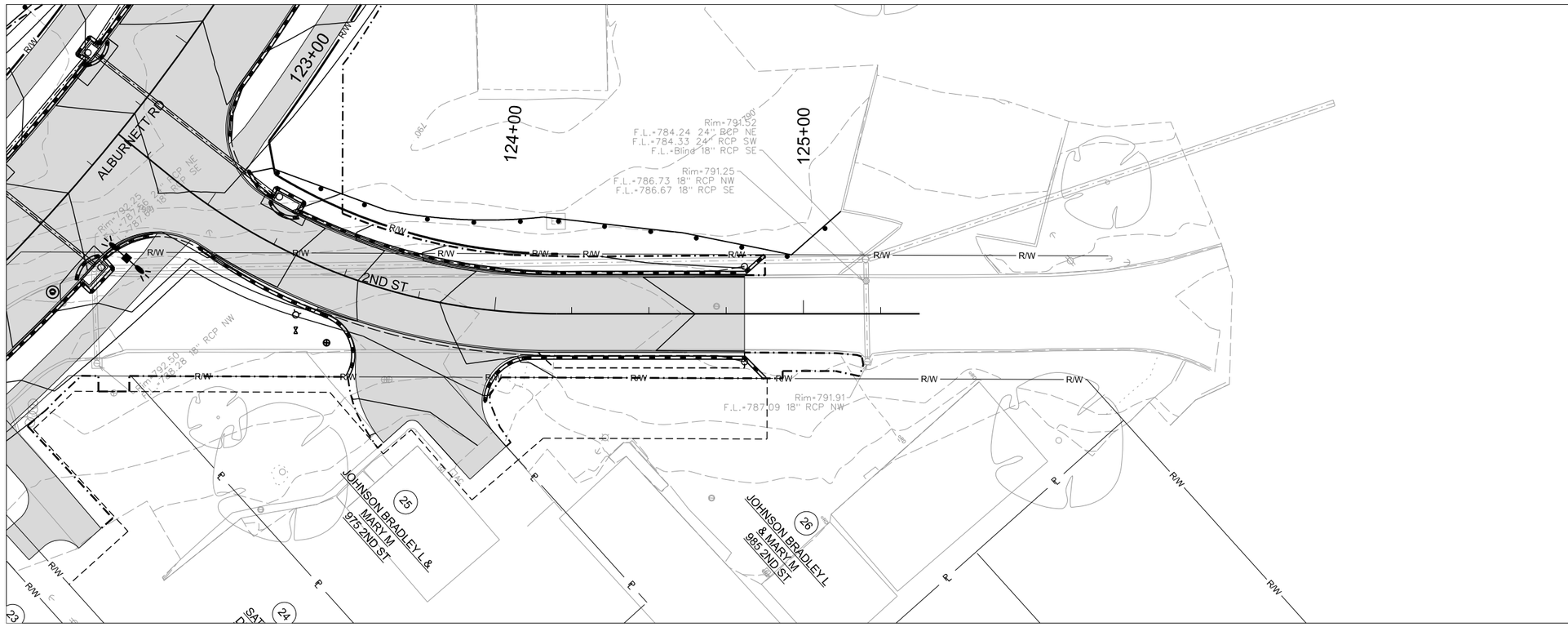
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Project No: 116.0663
Sheet RR.27





LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
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NOTE:
STORM SEWER INTAKE PROTECTION TO BE INSTALLED WITH APPROPRIATE STAGE OF CONSTRUCTION

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk.: | Pg:
Technician: KMM | Date: 5/8/2026 | Project No: 116.0663 | Sheet RR.28

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - SEDIMENT CONTROL PLAN

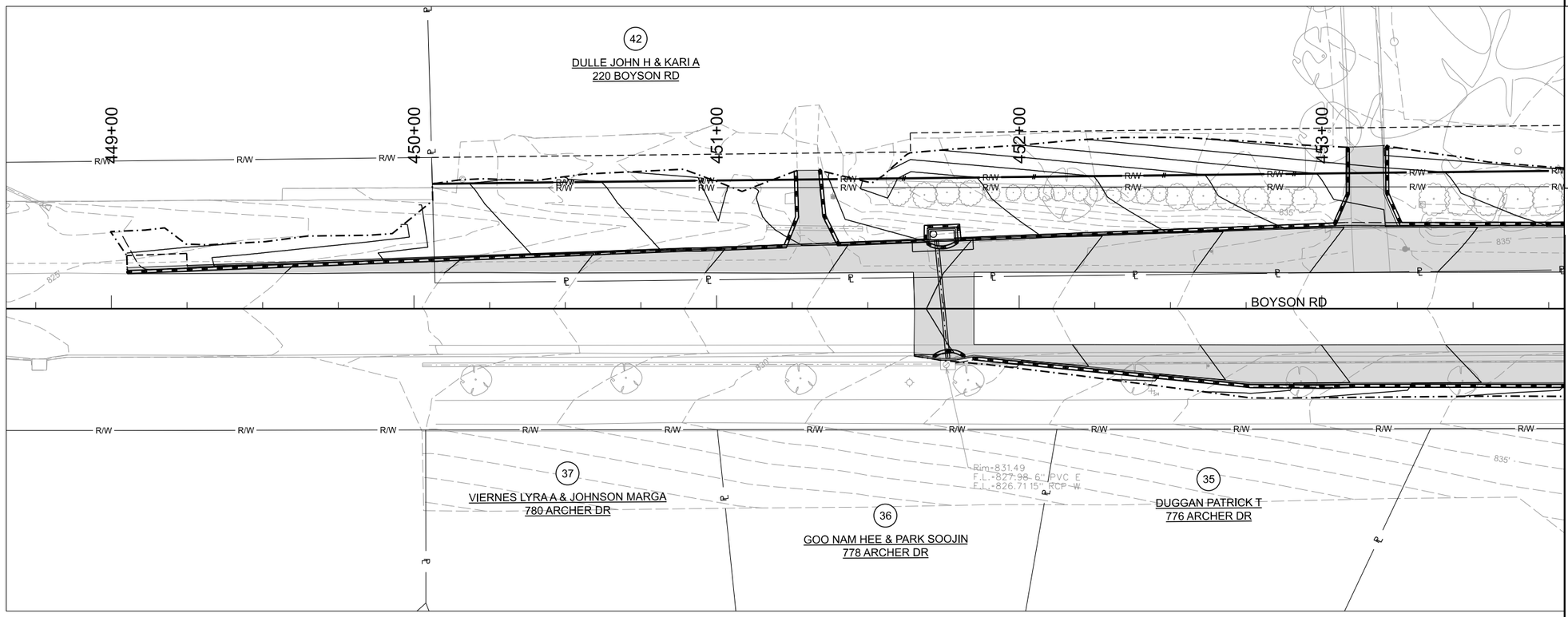
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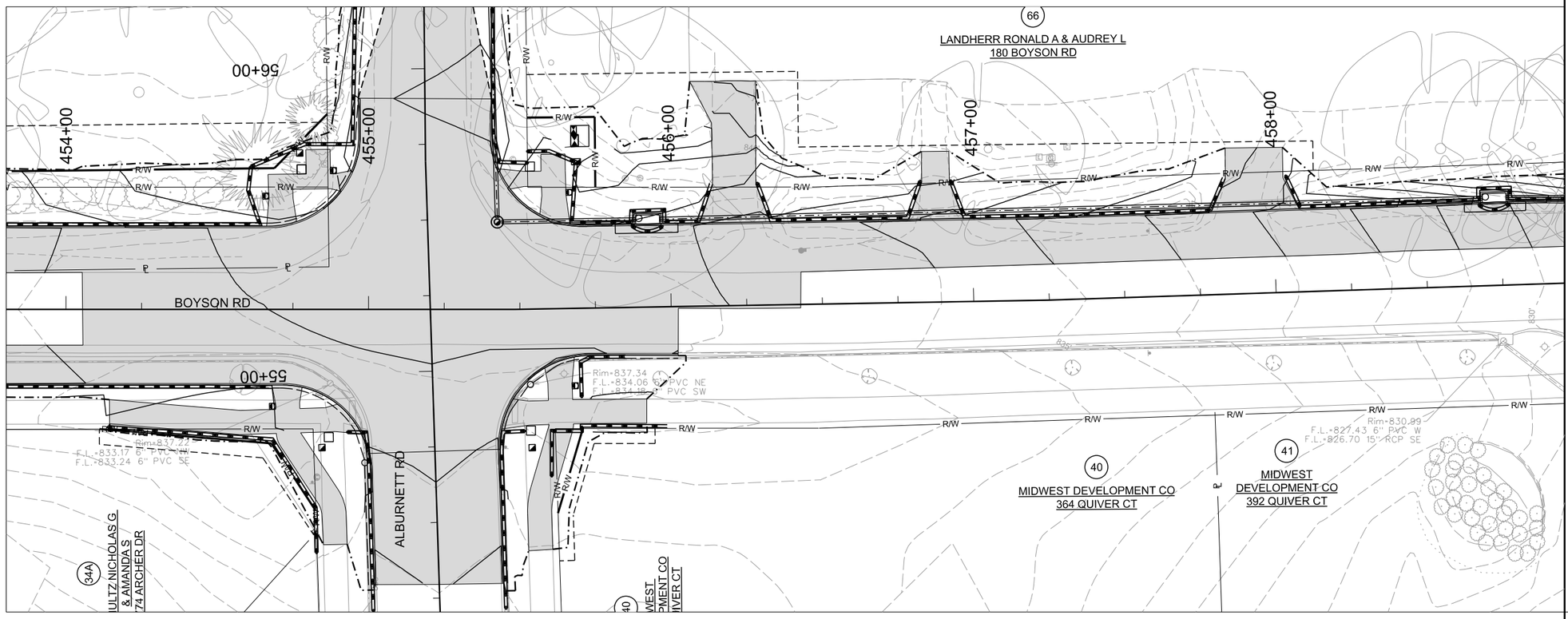
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Project No: 116.0663
Sheet RR.28

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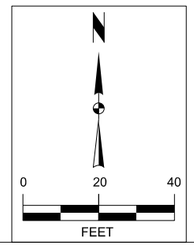




LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- SILT FENCE
- FILTER SOCKS
- FLOATING SILT CURTAIN
- EC-602 (OPEN THROAT INLET PROTECTION DEVICE)
- EC-604 (GRATE INLET PROTECTION DEVICE)

NOTE:
STORM SEWER INTAKE PROTECTION TO BE INSTALLED WITH APPROPRIATE STAGE OF CONSTRUCTION



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet RR.29

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - SEDIMENT CONTROL PLAN

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Project No: 116.0663

Sheet RR.29

LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- SILT FENCE
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk.:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet RR.30

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SWPPP - SEDIMENT CONTROL PLAN

CITY OF MARION, IOWA

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Project No: 116.0663

Sheet RR.30

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ALBURNETT RD

7TH AVE

113+00

R/W

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R 30

R 22

LEGEND

- SIDEWALK
- LANDING AREA
- RAMP
- TRANSITION PANEL
- CURB FLARE
- DETECTABLE WARNING (TRUNCATED DOMES)
- PAVEMENT/ RETAINING WALL SPECIAL SHAPING /ROADWAY
- COLORED SIDEWALK, PCC, 6" (BROWN)
- COLORED AND STAMPED SIDEWALK, PCC, 6" (GREY)

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.1

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

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Project No: 116.0663

Sheet S.1

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Northing	Easting	Elevation
				FT	FT	%	Pos. or Neg.		%						
S1-10	S1-11	Ramp Running Slope	6	5.99	0.39	6.5%	0.5% to 8.3%					S1-10	112+76.42	32.55	800.36
S1-10	S1-23	Ramp Cross Slope	6	6.00	0.06	1.0%	0.1% to 2.0%					S1-11	112+76.42	38.54	800.75
S1-11	S1-12	Landing/Turning Space	4	1.96	0.03	1.5%	0.1% to 2.0%					S1-12	112+76.42	40.50	800.78
S1-11	S1-22	Landing/Turning Space	4	6.00	0.06	1.0%	0.1% to 2.0%					S1-13	112+55.56	40.50	801.97
S1-12	S1-13	Ramp Running Slope	6	19.20	1.19	6.2%	0.5% to 8.3%					S1-14	112+55.56	45.50	802.04
S1-12	S1-15	Landing/Turning Space	4	5.00	0.07	1.4%	0.1% to 2.0%					S1-15	112+76.42	45.50	800.85
S1-12	S1-21	Landing/Turning Space	4	6.00	0.06	1.0%	0.1% to 2.0%					S1-16	112+83.01	45.50	800.91
S1-13	S1-14	Ramp Cross Slope	6	5.00	0.07	1.4%	0.1% to 2.0%					S1-17	112+85.20	45.50	800.93
S1-14	S1-15	Ramp Running Slope	6	19.00	-1.19	-6.3%	0.5% to 8.3%					S1-18	113+05.44	42.93	801.06
S1-15	S1-16	Landing/Turning Space	4	6.00	0.06	1.0%	0.1% to 2.0%					S1-19	113+04.85	37.95	800.98
S1-16	S1-17	Sidewalk Running Slope	4	2.00	0.02	1.0%	0.5% to 5.0%					S1-20	112+85.11	40.50	800.86
S1-16	S1-21	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%					S1-21	112+82.94	40.50	800.84
S1-17	S1-18	Sidewalk Running Slope	4	18.70	0.13	0.7%	0.5% to 5.0%					S1-22	112+82.91	38.50	800.81
S1-17	S1-20	Sidewalk Cross Slope	4	6.00	-0.07	-1.2%	0.5% to 2.0%					S1-23	112+82.83	32.50	800.42
S1-18	S1-19	Sidewalk Cross Slope	4	5.00	-0.08	-1.6%	0.5% to 2.0%	Yes				S1-30	112+75.43	-5.49	801.04
S1-19	S1-20	Sidewalk Cross Slope	4	18.43	-0.12	-0.7%	0.5% to 2.0%					S1-31	112+75.41	2.95	800.91
S1-20	S1-21	Sidewalk Running Slope	4	2.00	-0.02	-1.0%	0.5% to 5.0%					S1-32	112+83.48	4.54	800.96
S1-21	S1-22	Landing/Turning Space	4	2.00	-0.03	-1.5%	0.1% to 2.0%					S1-33	112+83.34	-5.49	801.11
S1-22	S1-23	Ramp Running Slope	6	6.00	-0.39	-6.5%	0.5% to 8.3%					S1-40	112+76.42	-32.90	801.75
S1-30	S1-31	Landing/Turning Space	4	8.44	-0.13	-1.5%	0.1% to 2.0%					S1-41	112+76.42	-37.24	801.84
S1-30	S1-33	Landing/Turning Space	4	8.00	0.07	0.9%	0.1% to 2.0%					S1-42	112+76.42	-42.84	801.90
S1-31	S1-32	Landing/Turning Space	4	8.17	0.05	0.6%	0.1% to 2.0%					S1-43	112+63.43	-51.22	801.29
S1-32	S1-33	Landing/Turning Space	4	10.04	0.15	1.5%	0.1% to 2.0%					S1-44	112+62.53	-51.83	801.28
S1-40	S1-41	Ramp Running Slope	6	4.34	0.09	2.1%	0.5% to 8.3%					S1-45	112+60.72	-55.00	801.24
S1-40	S1-61	Ramp Cross Slope	6	6.00	-0.04	-0.7%	0.1% to 2.0%					S1-46	112+53.77	-54.51	801.12
S1-40	S1-62	Crosswalk Cross Slope - No Yield Condition	6	6.02	-0.06	-1.0%	0.0% to 5.0%					S1-47	112+49.83	-54.28	800.85
S1-41	S1-42	Landing/Turning Space	4	5.61	0.06	1.1%	0.1% to 2.0%					S1-48	112+47.37	-62.16	800.70
S1-41	S1-60	Landing/Turning Space	4	6.00	-0.06	-1.0%	0.1% to 2.0%					S1-49	112+49.47	-62.27	800.77
S1-42	S1-43	Ramp Running Slope	6	16.47	-0.61	-3.7%	0.5% to 8.3%					S1-50	112+53.36	-62.50	801.01
S1-42	S1-55	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					S1-51	112+51.48	-89.40	800.73
S1-43	S1-44	Landing/Turning Space	4	1.16	-0.01	-0.9%	0.1% to 2.0%					S1-52	112+57.81	-86.41	800.85
S1-43	S1-54	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					S1-53	112+59.40	-66.71	801.13
S1-44	S1-45	Landing/Turning Space	4	3.76	-0.04	-1.1%	0.1% to 2.0%					S1-54	112+65.78	-55.50	801.32
S1-45	S1-46	Landing/Turning Space	4	7.71	-0.12	-1.6%	0.1% to 2.0%	Yes				S1-55	112+78.70	-47.18	801.93
S1-46	S1-47	Ramp Running Slope	6	4.37	-0.27	-6.2%	0.5% to 8.3%					S1-56	112+81.93	-45.19	801.89
S1-46	S1-50	Landing/Turning Space	4	8.00	-0.11	-1.4%	0.1% to 2.0%					S1-57	112+97.76	-45.43	802.63
S1-47	S1-48	Crosswalk Cross Slope - No Yield Condition	6	8.36	-0.15	-1.8%	0.0% to 5.0%					S1-58	112+97.79	-40.43	802.56
S1-47	S1-49	Ramp Cross Slope	6	8.00	-0.08	-1.0%	0.1% to 2.0%					S1-59	112+81.98	-40.19	801.81
S1-48	S1-49	Sidewalk Running Slope	4	2.36	0.07	3.0%	0.5% to 5.0%					S1-60	112+82.01	-37.27	801.78
S1-49	S1-50	Ramp Running Slope	6	4.39	0.24	5.5%	0.5% to 8.3%					S1-61	112+82.05	-32.94	801.71
S1-50	S1-51	Sidewalk Running Slope	4	27.99	-0.28	-1.0%	0.5% to 5.0%					S1-62	112+82.06	-32.50	801.69
S1-50	S1-53	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%								
S1-51	S1-52	Sidewalk Cross Slope	4	8.00	0.12	1.5%	0.5% to 2.0%								
S1-52	S1-53	Sidewalk Running Slope	4	20.53	0.28	1.4%	0.5% to 5.0%								
S1-53	S1-54	Landing/Turning Space	4	13.29	0.19	1.4%	0.1% to 2.0%								
S1-54	S1-55	Ramp Running Slope	6	16.47	0.61	3.7%	0.5% to 8.3%								
S1-55	S1-56	Landing/Turning Space	4	4.05	-0.04	-1.0%	0.1% to 2.0%								
S1-56	S1-57	Sidewalk Running Slope	4	17.22	0.74	4.3%	0.5% to 5.0%	Yes							
S1-56	S1-59	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
S1-57	S1-58	Sidewalk Cross Slope	4	5.00	-0.07	-1.4%	0.5% to 2.0%								
S1-58	S1-59	Sidewalk Running Slope		19.83	-0.75	-3.8%	0.5% to 5.0%								
S1-59	S1-60	Landing/Turning Space	4	2.93	-0.03	-1.0%	0.1% to 2.0%								
S1-60	S1-61	Ramp Running Slope	6	4.33	-0.07	-1.6%	0.5% to 8.3%								
S1-61	S1-62	Sidewalk Running Slope	4	0.44	-0.02	-4.6%	0.5% to 5.0%	Yes							

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.2

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

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900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

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Project No: 116.0663

Sheet S.2

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.3

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

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Project No: 116.0663

Sheet S.3

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Northing	Easting	Elevation
				FT	FT	%	Pos. or Neg.		%						
S3-10	S3-11	Ramp Running Slope	6	4.22	0.10	2.4%	0.5% to 8.3%					S3-10	12+58.33	-23.19	800.98
S3-10	S3-24	Ramp Cross Slope	6	8.00	-0.08	-1.0%	0.1% to 2.0%					S3-11	12+57.42	-27.31	801.08
S3-10	S3-25	Crosswalk Cross Slope - No Yield Condition	6	8.54	-0.14	-1.6%	0.0% to 5.0%					S3-12	12+55.24	-37.25	801.16
S3-11	S3-12	Landing/Turning Space	4	10.18	0.08	0.8%	0.1% to 2.0%					S3-13	12+53.50	-45.17	801.63
S3-11	S3-23	Landing/Turning Space	4	8.00	0.08	1.0%	0.1% to 2.0%					S3-14	12+49.07	-56.07	802.32
S3-12	S3-13	Ramp Running Slope	6	8.11	0.47	5.8%	0.5% to 8.3%					S3-15	12+53.32	-58.70	802.39
S3-12	S3-18	Landing/Turning Space	4	8.00	0.08	1.0%	0.1% to 2.0%					S3-16	12+54.83	-56.27	802.24
S3-13	S3-14	Ramp Running Slope	6	11.83	0.69	5.8%	0.5% to 8.3%					S3-17	12+56.90	-52.41	802.01
S3-14	S3-15	Ramp Cross Slope	6	5.00	0.07	1.4%	0.1% to 2.0%					S3-18	12+63.05	-38.97	801.24
S3-15	S3-16	Ramp Running Slope	6	2.87	-0.15	-5.2%	0.5% to 8.3%					S3-19	12+64.74	-38.98	801.25
S3-16	S3-17	Ramp Running Slope	6	4.38	-0.23	-5.3%	0.5% to 8.3%					S3-20	12+74.56	-39.00	801.65
S3-17	S3-18	Ramp Running Slope	6	14.79	-0.77	-5.2%	0.5% to 8.3%					S3-21	12+74.56	-31.00	801.53
S3-18	S3-19	Landing/Turning Space	4	1.69	0.01	0.6%	0.1% to 2.0%					S3-22	12+64.81	-30.98	801.18
S3-19	S3-20	Sidewalk Running Slope	4	10.18	0.40	3.9%	0.5% to 5.0%					S3-23	12+65.24	-29.03	801.16
S3-19	S3-22	Landing/Turning Space	4	8.00	-0.07	-0.9%	0.1% to 2.0%					S3-24	12+66.14	-24.92	800.90
S3-20	S3-21	Sidewalk Cross Slope	4	8.00	-0.12	-1.5%	0.5% to 2.0%					S3-25	12+66.78	-22.02	800.84
S3-21	S3-22	Sidewalk Running Slope	4	10.05	-0.35	-3.5%	0.5% to 5.0%					S3-30	13+21.11	-22.00	799.83
S3-22	S3-23	Landing/Turning Space	4	2.00	-0.02	-1.0%	0.1% to 2.0%					S3-31	13+12.40	-31.00	800.83
S3-23	S3-24	Ramp Running Slope	6	4.21	-0.26	-6.2%	0.5% to 8.3%					S3-32	13+23.21	-31.00	800.61
S3-24	S3-25	Sidewalk Running Slope	4	2.97	-0.06	-2.0%	0.5% to 5.0%					S3-33	13+32.27	-22.00	799.60
S3-30	S3-31	Ramp Running Slope	6	12.82	1.00	7.8%	0.5% to 8.3%	Yes				S3-40	13+50.52	22.00	799.23
S3-30	S3-33	Crosswalk Cross Slope - No Yield Condition	6	11.61	-0.23	-2.0%	0.0% to 5.0%					S3-41	13+42.06	28.82	800.23
S3-31	S3-32	Ramp Cross Slope	6	11.42	-0.22	-1.9%	0.1% to 2.0%	Yes				S3-42	13+30.19	27.66	800.47
S3-32	S3-33	Ramp Running Slope	6	13.09	-1.01	-7.7%	0.5% to 8.3%	Yes				S3-43	13+37.54	22.00	799.50
S3-40	S3-41	Ramp Running Slope	6	10.57	1.00	9.5%	0.5% to 10.5%				Bicycle Ramp	S3-50	13+23.66	34.98	800.65
S3-40	S3-43	Crosswalk Cross Slope - No Yield Condition	6	12.46	0.27	2.2%	0.0% to 5.0%					S3-51	13+23.19	38.50	800.59
S3-41	S3-42	Ramp Cross Slope	6	11.31	0.24	2.1%	0.1% to 3.1%				Bicycle Ramp	S3-52	13+17.96	37.74	800.74
S3-42	S3-43	Ramp Running Slope	6	9.02	-0.97	-10.8%	0.5% to 11.8%				Bicycle Ramp	S3-53	13+18.45	34.35	800.71
S3-50	S3-51	Sidewalk Cross Slope	4	3.55	-0.06	-1.7%	0.5% to 2.0%	Yes							
S3-50	S3-53	Sidewalk Running Slope	4	4.92	0.06	1.2%	0.5% to 5.0%								
S3-51	S3-52	Sidewalk Running Slope	4	4.92	0.15	3.0%	0.5% to 5.0%								
S3-52	S3-53	Sidewalk Cross Slope	4	3.42	-0.03	-0.9%	0.5% to 2.0%								

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:
Project No: 116.0663
Sheet S.4

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

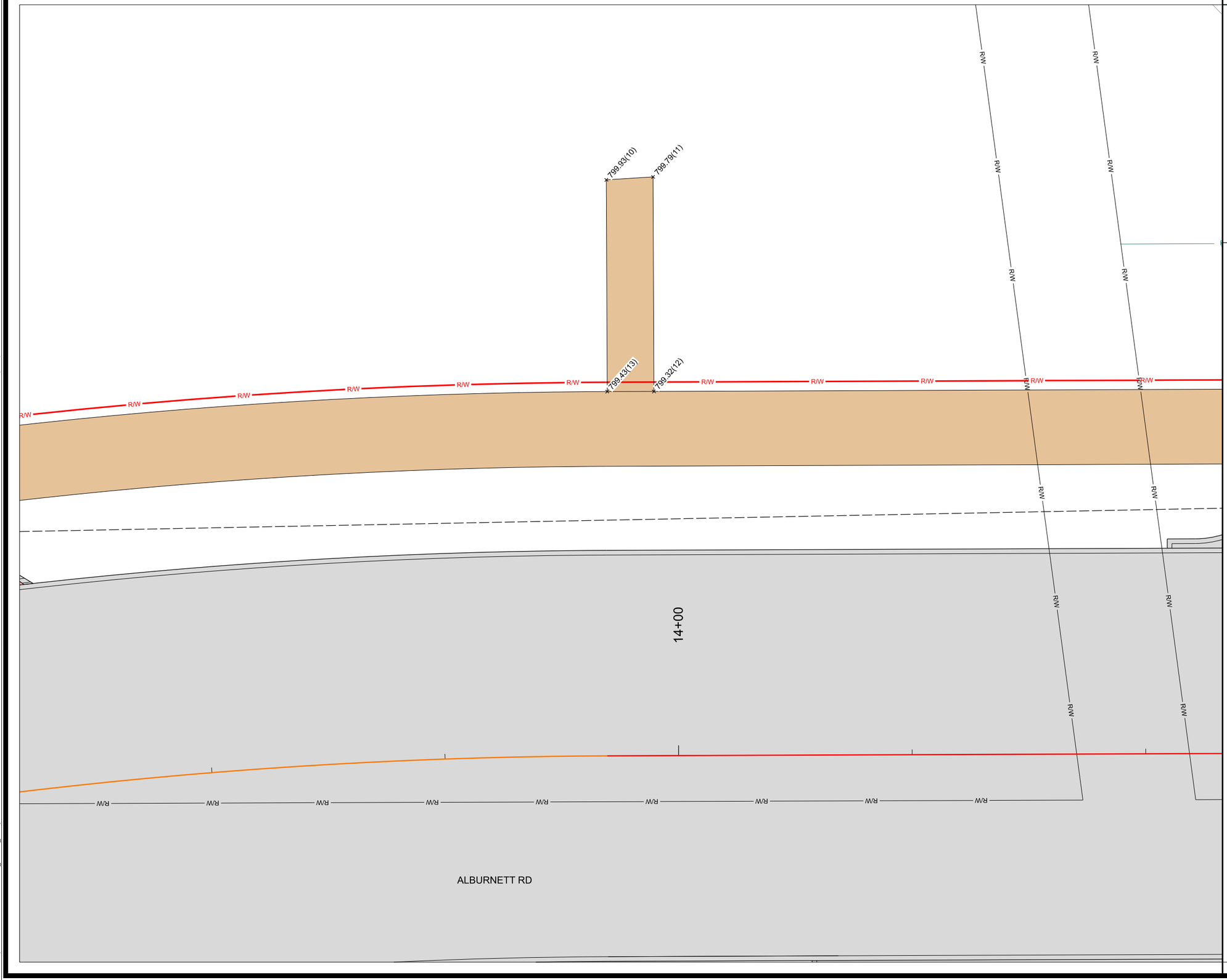
SIDEWALK SHEETS

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Sheet S.4

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:

Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet S.5

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

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Sheet S.5

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
				FT	FT	%	Pos. or Neg.		%			Point	Northing	Easting	Elevation
S5-10	S5-11	Match Existing Cross Slope	4	5.01	-0.14	-2.8%	Match Existing					S5-10	13+92.50	61.66	799.93
S5-10	S5-13	Sidewalk Running Slope	4	22.67	-0.50	-2.2%	0.5% to 5.0%					S5-11	13+97.50	61.97	799.79
S5-11	S5-12	Sidewalk Running Slope	4	22.97	-0.43	-1.9%	0.5% to 5.0%					S5-12	13+97.50	39.00	799.36
S5-12	S5-13	Sidewalk Cross Slope	4	5.00	0.07	1.4%	0.5% to 2.0%					S5-13	13+92.50	39.00	799.43

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.6

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

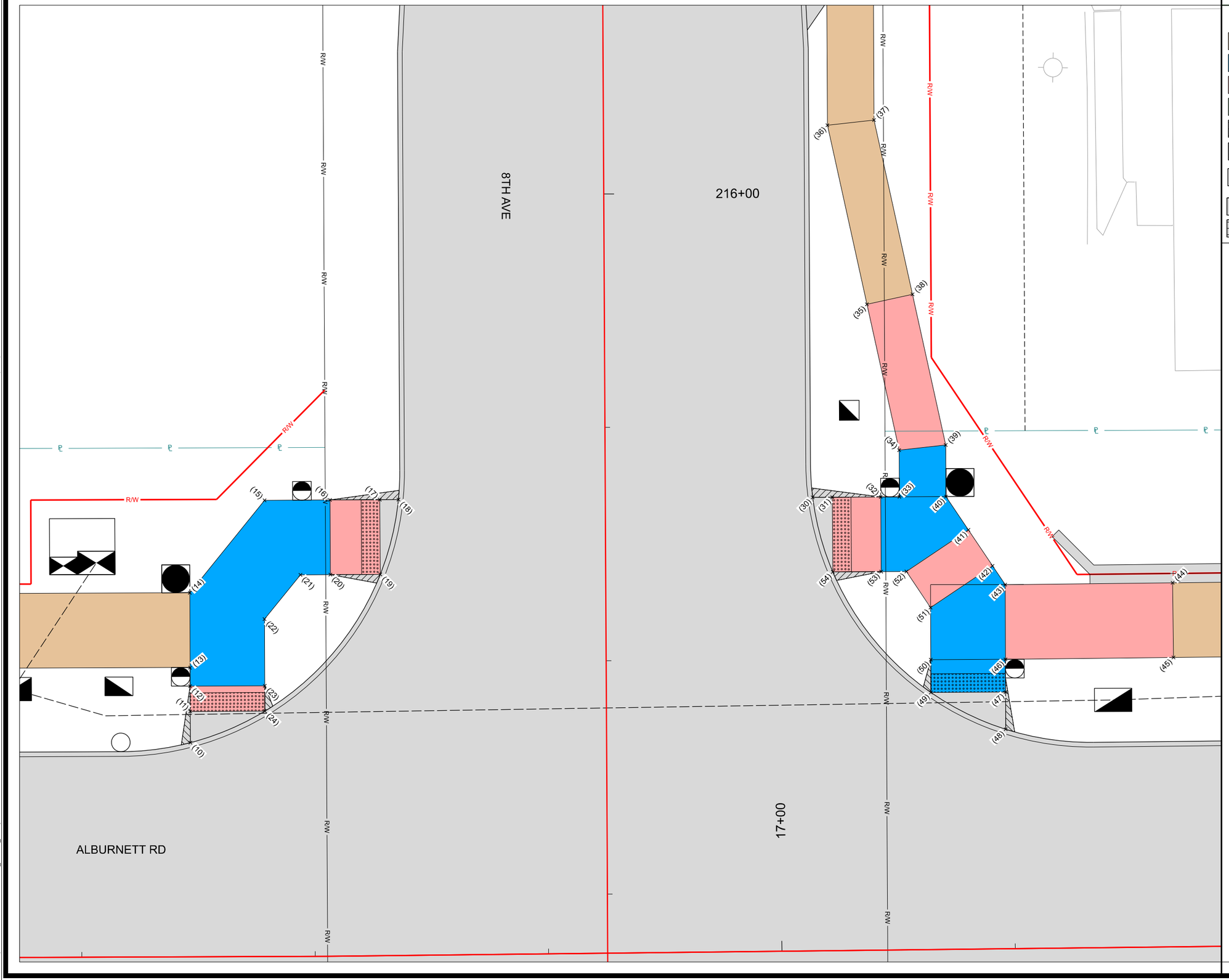
SIDEWALK SHEETS

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Project No: 116.0663
Sheet S.6

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.7

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

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Project No: 116.0663

Sheet S.7

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
S7-10	S7-11	Sidewalk Running Slope	4	3.33	0.03	0.9%	0.5% to 5.0%					S7-10	16+36.71	-22.94	798.39
S7-10	S7-24	Crosswalk Cross Slope - No Yield Condition	6	8.70	0.11	1.3%	0.0% to 5.0%					S7-11	16+36.71	-26.27	798.42
S7-11	S7-12	Ramp Running Slope	6	2.73	0.11	4.0%	0.5% to 8.3%					S7-12	16+36.71	-29.00	798.53
S7-11	S7-24	Ramp Cross Slope	6	8.00	0.08	1.0%	0.1% to 2.0%					S7-13	16+36.71	-30.97	798.55
S7-12	S7-13	Landing/Turning Space	4	1.97	0.02	1.0%	0.1% to 2.0%					S7-14	16+36.71	-39.00	798.67
S7-12	S7-23	Landing/Turning Space	4	8.00	0.08	1.0%	0.1% to 2.0%					S7-15	16+44.76	-48.87	798.61
S7-13	S7-14	Landing/Turning Space	4	8.03	0.12	1.5%	0.1% to 2.0%					S7-16	16+52.12	-48.88	798.51
S7-14	S7-15	Landing/Turning Space	4	12.74	-0.06	-0.5%	0.1% to 2.0%					S7-17	16+57.46	-48.85	798.13
S7-15	S7-16	Landing/Turning Space	4	7.00	-0.10	-1.4%	0.1% to 2.0%					S7-18	16+59.46	-48.84	798.04
S7-16	S7-17	Ramp Running Slope	6	5.34	-0.38	-7.1%	0.5% to 8.3%					S7-19	16+57.43	-40.85	798.26
S7-16	S7-20	Landing/Turning Space	4	8.00	0.08	1.0%	0.1% to 2.0%					S7-20	16+52.08	-40.88	798.59
S7-17	S7-18	Sidewalk Running Slope	4	2.00	-0.09	-4.5%	0.5% to 5.0%	Yes				S7-21	16+48.57	-40.88	798.62
S7-17	S7-19	Ramp Cross Slope	6	8.00	0.13	1.6%	0.1% to 2.0%	Yes				S7-22	16+44.71	-36.15	798.64
S7-18	S7-19	Crosswalk Cross Slope - No Yield Condition	6	8.27	0.22	2.7%	0.0% to 5.0%					S7-23	16+44.71	-29.00	798.61
S7-19	S7-20	Ramp Running Slope	6	5.35	0.33	6.2%	0.5% to 8.3%					S7-24	16+44.71	-26.29	798.50
S7-20	S7-21	Landing/Turning Space	4	3.21	0.03	0.9%	0.1% to 2.0%					S7-30	17+03.84	-48.59	798.45
S7-21	S7-22	Landing/Turning Space	4	6.10	0.02	0.3%	0.1% to 2.0%					S7-31	17+05.94	-48.57	798.53
S7-22	S7-23	Landing/Turning Space	4	7.15	-0.03	-0.4%	0.1% to 2.0%					S7-32	17+11.12	-48.55	798.92
S7-23	S7-24	Ramp Running Slope	6	2.71	-0.11	-4.1%	0.5% to 8.3%					S7-33	17+13.12	-48.53	798.94
S7-30	S7-31	Sidewalk Running Slope	4	2.10	0.08	3.8%	0.5% to 5.0%					S7-34	17+13.15	-53.53	798.89
S7-30	S7-54	Crosswalk Cross Slope - No Yield Condition	6	8.30	0.20	2.4%	0.0% to 5.0%					S7-35	17+09.88	-69.20	797.47
S7-31	S7-32	Ramp Running Slope	6	5.19	0.39	7.5%	0.5% to 8.3%	Yes				S7-36	17+05.86	-88.43	796.61
S7-31	S7-54	Ramp Cross Slope	6	8.00	0.12	1.5%	0.1% to 2.0%					S7-37	17+10.86	-88.93	796.68
S7-32	S7-33	Landing/Turning Space	4	2.00	0.02	1.0%	0.1% to 2.0%					S7-38	17+14.77	-70.22	797.54
S7-32	S7-53	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%					S7-39	17+18.15	-54.04	798.93
S7-33	S7-34	Landing/Turning Space	4	5.00	-0.05	-1.0%	0.1% to 2.0%					S7-40	17+18.12	-48.51	798.99
S7-33	S7-40	Landing/Turning Space	4	5.00	0.05	1.0%	0.1% to 2.0%					S7-41	17+09.14	-33.83	799.03
S7-34	S7-35	Ramp Running Slope	6	16.00	-1.42	-8.9%	0.5% to 9.9%				Length constructed must exceed 15 feet at a uniform running s	S7-42	17+23.02	-41.02	799.23
S7-34	S7-39	Landing/Turning Space	4	5.03	0.04	0.8%	0.1% to 2.0%					S7-43	17+24.35	-39.00	799.25
S7-35	S7-36	Sidewalk Running Slope	4	19.65	-0.86	-4.4%	0.5% to 5.0%	Yes				S7-44	17+42.29	-39.00	800.38
S7-35	S7-38	Ramp Cross Slope	6	5.00	0.07	1.4%	0.1% to 2.0%					S7-45	17+42.29	-31.00	800.32
S7-36	S7-37	Sidewalk Cross Slope	4	5.03	0.07	1.4%	0.5% to 2.0%					S7-46	17+24.29	-31.00	799.33
S7-37	S7-38	Sidewalk Running Slope	4	19.12	0.86	4.5%	0.5% to 5.0%	Yes				S7-47	17+24.26	-27.50	799.37
S7-38	S7-39	Ramp Running Slope	6	16.53	1.39	8.4%					Length constructed must exceed 15 feet at a uniform running s	S7-48	17+24.23	-23.51	799.43
S7-39	S7-40	Landing/Turning Space	4	5.53	0.06	1.1%	0.1% to 2.0%					S7-49	17+16.26	-27.55	799.25
S7-40	S7-41	Landing/Turning Space	4	4.29	0.04	0.9%	0.1% to 2.0%					S7-50	17+16.29	-31.06	799.21
S7-40	S7-52	Landing/Turning Space	4	9.08	0.02	0.2%	0.1% to 2.0%					S7-51	17+16.33	-36.64	799.15
S7-41	S7-42	Ramp Running Slope	6	4.65	0.20	4.3%	0.5% to 8.3%					S7-52	17+13.78	-40.53	799.01
S7-41	S7-52	Landing/Turning Space	4	8.00	-0.02	-0.2%	0.1% to 2.0%					S7-53	17+11.08	-40.55	799.04
S7-42	S7-43	Landing/Turning Space	4	2.42	0.02	0.8%	0.1% to 2.0%					S7-54	17+05.90	-40.57	798.65
S7-42	S7-51	Ramp Cross Slope	6	8.00	-0.08	-1.0%	0.1% to 2.0%								
S7-43	S7-44	Ramp Running Slope	6	17.94	1.13	6.3%	0.5% to 8.3%								
S7-43	S7-46	Ramp Cross Slope	6	8.00	0.08	1.0%	0.1% to 2.0%								
S7-44	S7-45	Ramp Cross Slope	6	8.00	-0.06	-0.7%	0.1% to 2.0%								
S7-45	S7-46	Ramp Running Slope	6	18.00	-0.99	-5.5%	0.5% to 8.3%								
S7-46	S7-47	Landing/Turning Space	4	3.50	0.04	1.1%	0.1% to 2.0%								
S7-46	S7-50	Landing/Turning Space	4	8.00	-0.12	-1.5%	0.1% to 2.0%								
S7-47	S7-48	Sidewalk Running Slope	4	3.99	0.06	1.5%	0.5% to 5.0%								
S7-47	S7-49	Ramp Cross Slope	6	8.00	-0.12	-1.5%	0.1% to 2.0%								
S7-48	S7-49	Crosswalk Cross Slope - No Yield Condition	6	8.97	-0.18	-2.0%	0.0% to 5.0%								
S7-49	S7-50	Landing/Turning Space	4	3.51	-0.04	-1.1%	0.1% to 2.0%								
S7-50	S7-51	Landing/Turning Space	4	5.58	-0.06	-1.1%	0.1% to 2.0%								
S7-51	S7-52	Ramp Running Slope	6	4.65	-0.14	-3.0%	0.5% to 8.3%								
S7-52	S7-53	Landing/Turning Space	4	2.71	0.03	1.1%	0.1% to 2.0%								
S7-53	S7-54	Ramp Running Slope	6	5.17	-0.39	-7.5%	0.5% to 8.3%	Yes							

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.8

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

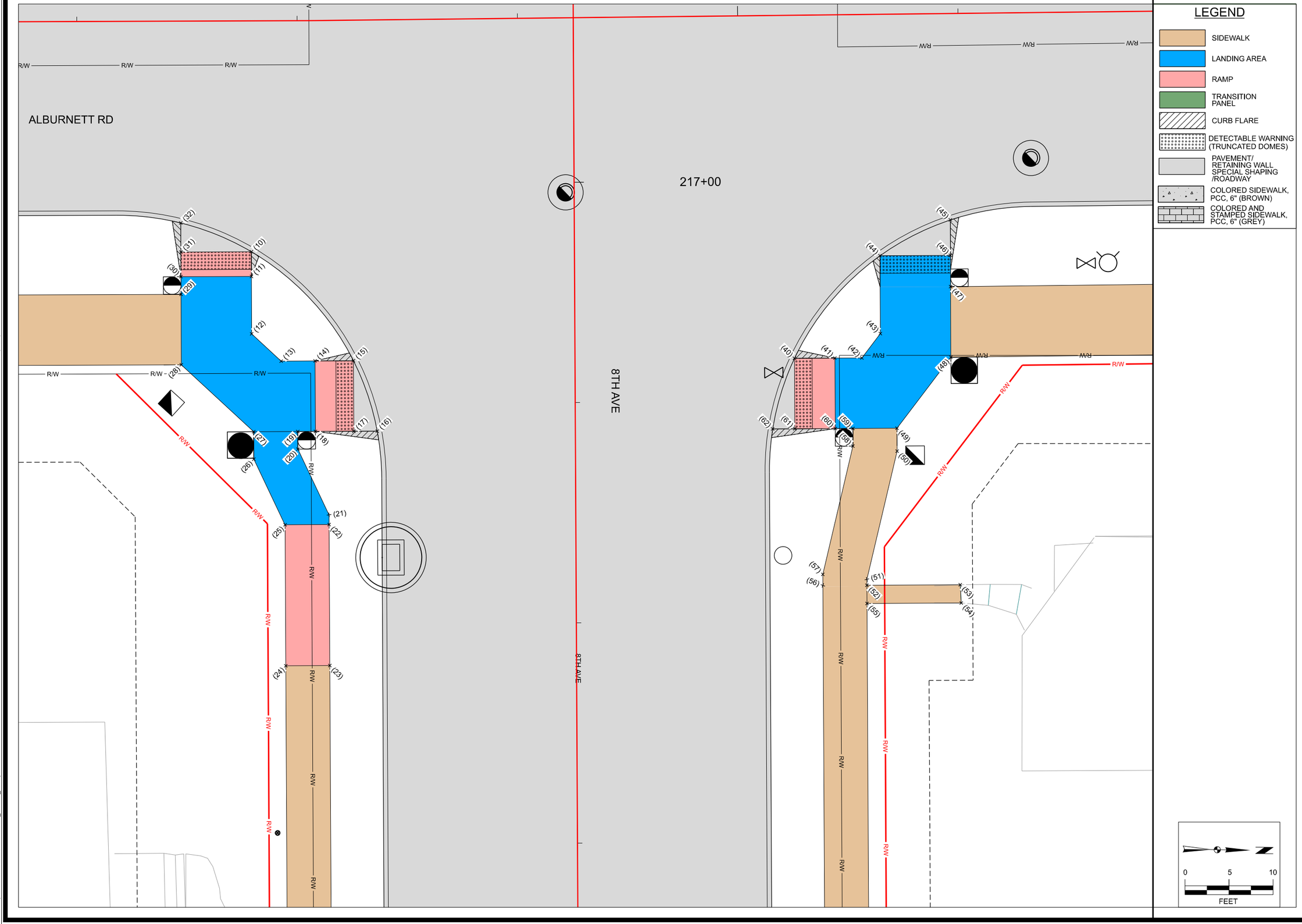
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Project No: 116.0663

Sheet S.8

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:

Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet S.9

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

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Project No: 116.0663

Sheet S.9

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Northing	Easting	Elevation
				FT	FT	%	Pos. or Neg.		%						
S9-10	S9-11	Ramp Running Slope	6	2.80	0.20	7.1%	0.5% to 8.3%					S9-10	16+44.71	26.20	799.38
S9-10	S9-31	Ramp Cross Slope	6	8.00	-0.08	-1.0%	0.1% to 2.0%					S9-11	16+44.71	29.00	799.58
S9-10	S9-32	Crosswalk Cross Slope - Yield Condition	6	8.68	-0.17	-2.0%	0.0% to 2.0%					S9-12	16+44.71	35.52	799.68
S9-11	S9-12	Landing/Turning Space	4	6.52	0.10	1.5%	0.1% to 2.0%					S9-13	16+48.04	38.63	799.75
S9-11	S9-30	Landing/Turning Space	4	8.00	-0.10	-1.3%	0.1% to 2.0%					S9-14	16+51.60	38.62	799.80
S9-12	S9-13	Landing/Turning Space	4	4.56	0.07	1.5%	0.1% to 2.0%					S9-15	16+55.97	38.65	799.72
S9-13	S9-14	Landing/Turning Space	4	3.84	0.05	1.3%	0.1% to 2.0%					S9-16	16+58.57	46.66	799.83
S9-14	S9-15	Ramp Running Slope	6	4.37	-0.08	-1.8%	0.5% to 8.3%					S9-17	16+55.92	46.65	799.85
S9-14	S9-18	Landing/Turning Space	4	8.00	0.10	1.3%	0.1% to 2.0%					S9-18	16+51.56	46.62	799.90
S9-15	S9-16	Crosswalk Cross Slope - Yield Condition	6	8.46	0.11	1.3%	0.0% to 2.0%					S9-19	16+49.90	46.62	799.87
S9-15	S9-17	Ramp Cross Slope	6	8.00	0.13	1.6%	0.1% to 2.0%	Yes				S9-20	16+49.90	48.62	799.89
S9-16	S9-17	Sidewalk Running Slope	4	2.65	0.02	0.8%	0.5% to 5.0%					S9-21	16+53.00	56.10	799.97
S9-17	S9-18	Ramp Running Slope	6	4.37	0.05	1.1%	0.5% to 8.3%					S9-22	16+52.99	57.20	799.98
S9-18	S9-19	Landing/Turning Space	4	2.00	-0.03	-1.5%	0.1% to 2.0%					S9-23	16+52.90	73.20	800.88
S9-19	S9-20	Landing/Turning Space	4	2.00	0.02	1.0%	0.1% to 2.0%					S9-24	16+48.44	73.20	800.95
S9-19	S9-27	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%					S9-25	16+48.41	57.20	799.91
S9-20	S9-21	Landing/Turning Space	4	8.25	0.08	1.0%	0.1% to 2.0%					S9-26	16+44.90	49.74	799.83
S9-21	S9-22	Landing/Turning Space	4	1.10	0.01	0.9%	0.1% to 2.0%					S9-27	16+44.90	46.63	799.80
S9-22	S9-23	Ramp Running Slope	6	16.00	0.90	5.6%	0.5% to 8.3%					S9-28	16+36.71	39.00	799.63
S9-22	S9-25	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%					S9-29	16+36.71	31.00	799.51
S9-23	S9-24	Ramp Cross Slope	6	5.00	0.07	1.4%	0.1% to 2.0%					S9-30	16+36.71	29.00	799.48
S9-24	S9-25	Ramp Running Slope	6	16.00	-1.04	-6.5%	0.5% to 8.3%					S9-31	16+36.71	26.21	799.30
S9-25	S9-26	Landing/Turning Space	4	8.24	-0.08	-1.0%	0.1% to 2.0%					S9-32	16+36.71	22.90	799.21
S9-26	S9-27	Landing/Turning Space	4	3.11	-0.03	-1.0%	0.1% to 2.0%					S9-40	17+06.01	38.93	800.50
S9-27	S9-28	Landing/Turning Space	4	11.19	-0.17	-1.5%	0.1% to 2.0%					S9-41	17+10.60	38.95	800.58
S9-28	S9-29	Landing/Turning Space	4	8.00	-0.12	-1.5%	0.1% to 2.0%					S9-42	17+13.66	38.97	800.55
S9-29	S9-30	Landing/Turning Space	4	2.00	-0.03	-1.5%	0.1% to 2.0%					S9-43	17+15.79	36.23	800.51
S9-30	S9-31	Ramp Running Slope	6	2.79	-0.18	-6.5%	0.5% to 8.3%					S9-44	17+15.85	27.39	800.43
S9-31	S9-32	Sidewalk Running Slope	4	3.31	-0.09	-2.7%	0.5% to 5.0%					S9-45	17+23.88	23.42	800.48
S9-40	S9-41	Ramp Running Slope	6	4.59	0.08	1.7%	0.5% to 8.3%					S9-46	17+23.85	27.45	800.55
S9-40	S9-61	Ramp Cross Slope	6	8.00	0.12	1.5%	0.1% to 2.0%					S9-47	17+23.83	30.99	800.59
S9-40	S9-62	Crosswalk Cross Slope - Yield Condition	6	8.42	0.09	1.1%	0.0% to 2.0%					S9-48	17+23.77	39.00	800.63
S9-41	S9-42	Landing/Turning Space	4	3.06	-0.03	-1.0%	0.1% to 2.0%					S9-49	17+17.56	46.99	800.73
S9-41	S9-60	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%					S9-50	17+17.54	49.59	800.83
S9-42	S9-43	Landing/Turning Space	4	3.47	-0.04	-1.2%	0.1% to 2.0%					S9-51	17+13.95	64.10	801.41
S9-43	S9-44	Landing/Turning Space	4	8.84	-0.08	-0.9%	0.1% to 2.0%					S9-52	17+13.95	64.77	801.44
S9-44	S9-45	Crosswalk Cross Slope - Yield Condition	6	8.98	0.05	0.6%	0.0% to 2.0%					S9-53	17+24.54	64.83	802.28
S9-44	S9-46	Ramp Running Slope	6	8.00	0.12	1.5%	0.5% to 8.3%					S9-54	17+24.63	66.91	802.20
S9-45	S9-46	Sidewalk Running Slope	4	4.03	0.07	1.7%	0.5% to 5.0%					S9-55	17+13.94	66.85	801.51
S9-46	S9-47	Landing/Turning Space	4	3.54	0.04	1.1%	0.1% to 2.0%					S9-56	17+08.95	64.74	801.37
S9-47	S9-48	Landing/Turning Space	4	8.00	0.04	0.5%	0.1% to 2.0%					S9-57	17+08.96	63.48	801.32
S9-48	S9-49	Landing/Turning Space	4	10.12	0.10	1.0%	0.1% to 2.0%					S9-58	17+12.54	48.97	800.75
S9-49	S9-50	Sidewalk Running Slope	4	2.60	0.10	3.9%	0.5% to 5.0%					S9-59	17+12.55	46.97	800.68
S9-49	S9-59	Landing/Turning Space	4	5.00	-0.05	-1.0%	0.1% to 2.0%					S9-60	17+10.55	46.95	800.70
S9-50	S9-51	Sidewalk Running Slope	4	14.95	0.58	3.9%	0.5% to 5.0%					S9-61	17+05.97	46.93	800.62
S9-51	S9-52	Sidewalk Running Slope	4	0.66	0.03	4.5%	0.5% to 5.0%	Yes				S9-62	17+03.46	46.91	800.59
S9-52	S9-53	Ramp Running Slope	6	10.60	0.84	7.9%	0.5% to 8.3%	Yes							
S9-52	S9-55	Sidewalk Running Slope	4	2.08	0.07	3.4%	0.5% to 5.0%								
S9-52	S9-56	Sidewalk Cross Slope	4	5.00	-0.07	-1.4%	0.5% to 2.0%								
S9-53	S9-54	Match Existing Cross Slope	4	2.08	-0.08	-3.8%	Match Existing								
S9-54	S9-55	Ramp Running Slope	6	10.69	-0.69	-6.5%	0.5% to 8.3%								
S9-56	S9-57	Sidewalk Running Slope	4	1.26	-0.05	-4.0%	0.5% to 5.0%								
S9-57	S9-58	Sidewalk Running Slope	4	14.95	-0.57	-3.8%	0.5% to 5.0%								
S9-58	S9-59	Sidewalk Running Slope	4	2.00	-0.07	-3.5%	0.5% to 5.0%								
S9-59	S9-60	Landing/Turning Space	4	2.00	0.02	1.0%	0.1% to 2.0%								
S9-60	S9-61	Ramp Running Slope	6	4.59	-0.08	-1.7%	0.5% to 8.3%								
S9-61	S9-62	Sidewalk Running Slope	4	2.52	-0.03	-1.2%	0.5% to 5.0%								

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.10

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

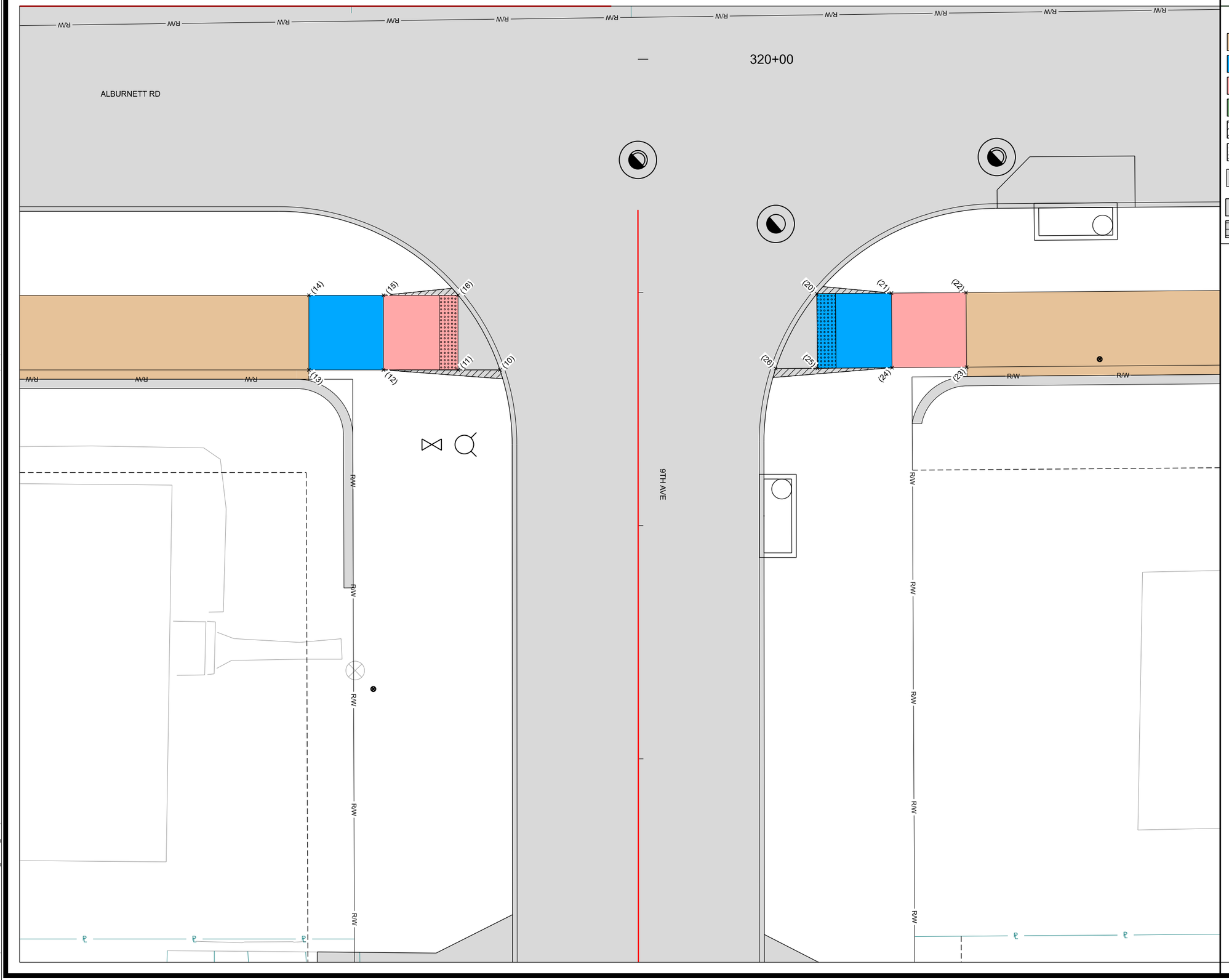
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Project No: 116.0663

Sheet S.10

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LEGEND

- SIDEWALK
- LANDING AREA
- RAMP
- TRANSITION PANEL
- CURB FLARE
- DETECTABLE WARNING (TRUNCATED DOMES)
- PAVEMENT/ RETAINING WALL SPECIAL SHAPING /ROADWAY
- COLORED SIDEWALK, PCC, 6" (BROWN)
- COLORED AND STAMPED SIDEWALK, PCC, 6" (GREY)

0 5 10
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/8/2026

Project No: 116.0663

Sheet S.11

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet S.11

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
S11-10	S11-11	Sidewalk Running Slope	4	4.49	0.06	1.3%	0.5% to 5.0%					S11-10	19+79.497	39.00	797.63
S11-10	S11-16	Crosswalk Cross Slope - Yield Condition	6	9.23	0.12	1.3%	0.0% to 2.0%					S11-11	19+75.008	39.00	797.69
S11-11	S11-12	Ramp Running Slope	6	8.00	0.30	3.7%	0.5% to 8.3%					S11-12	19+67.008	39.00	797.99
S11-11	S11-16	Ramp Cross Slope	6	8.00	0.06	0.7%	0.1% to 2.0%					S11-13	19+59.008	39.00	798.11
S11-12	S11-13	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%					S11-14	19+59.008	31.00	798.15
S11-12	S11-15	Landing/Turning Space	4	8.00	0.04	0.5%	0.1% to 2.0%					S11-15	19+67.008	31.00	798.03
S11-13	S11-14	Landing/Turning Space	4	8.00	0.04	0.5%	0.1% to 2.0%					S11-16	19+75.008	31.00	797.75
S11-14	S11-15	Landing/Turning Space	4	8.00	-0.12	-1.5%	0.1% to 2.0%					S11-20	20+13.232	31.00	796.84
S11-15	S11-16	Ramp Running Slope	6	8.01	-0.28	-3.5%	0.5% to 8.3%					S11-21	20+21.232	31.00	796.91
S11-20	S11-21	Landing/Turning Space	4	8.00	0.07	0.9%	0.1% to 2.0%					S11-22	20+29.232	31.00	796.66
S11-20	S11-25	Landing/Turning Space	4	8.00	0.13	1.6%	0.1% to 2.0%	Yes				S11-23	20+29.232	39.00	796.78
S11-20	S11-26	Crosswalk Cross Slope - Yield Condition	6	9.22	0.10	1.1%	0.0% to 2.0%					S11-24	20+21.232	39.00	797.03
S11-21	S11-22	Ramp Running Slope	6	8.00	-0.25	-3.1%	0.5% to 8.3%					S11-25	20+13.232	39.00	796.97
S11-21	S11-24	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%					S11-26	20+08.756	39.00	796.94
S11-22	S11-23	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%								
S11-23	S11-24	Ramp Running Slope	6	8.00	0.25	3.1%	0.5% to 8.3%								
S11-24	S11-25	Landing/Turning Space	4	8.00	-0.06	-0.7%	0.1% to 2.0%								
S11-25	S11-26	Sidewalk Running Slope	4	4.48	-0.03	-0.7%	0.5% to 5.0%								

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.12

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

SIDEWALK SHEETS

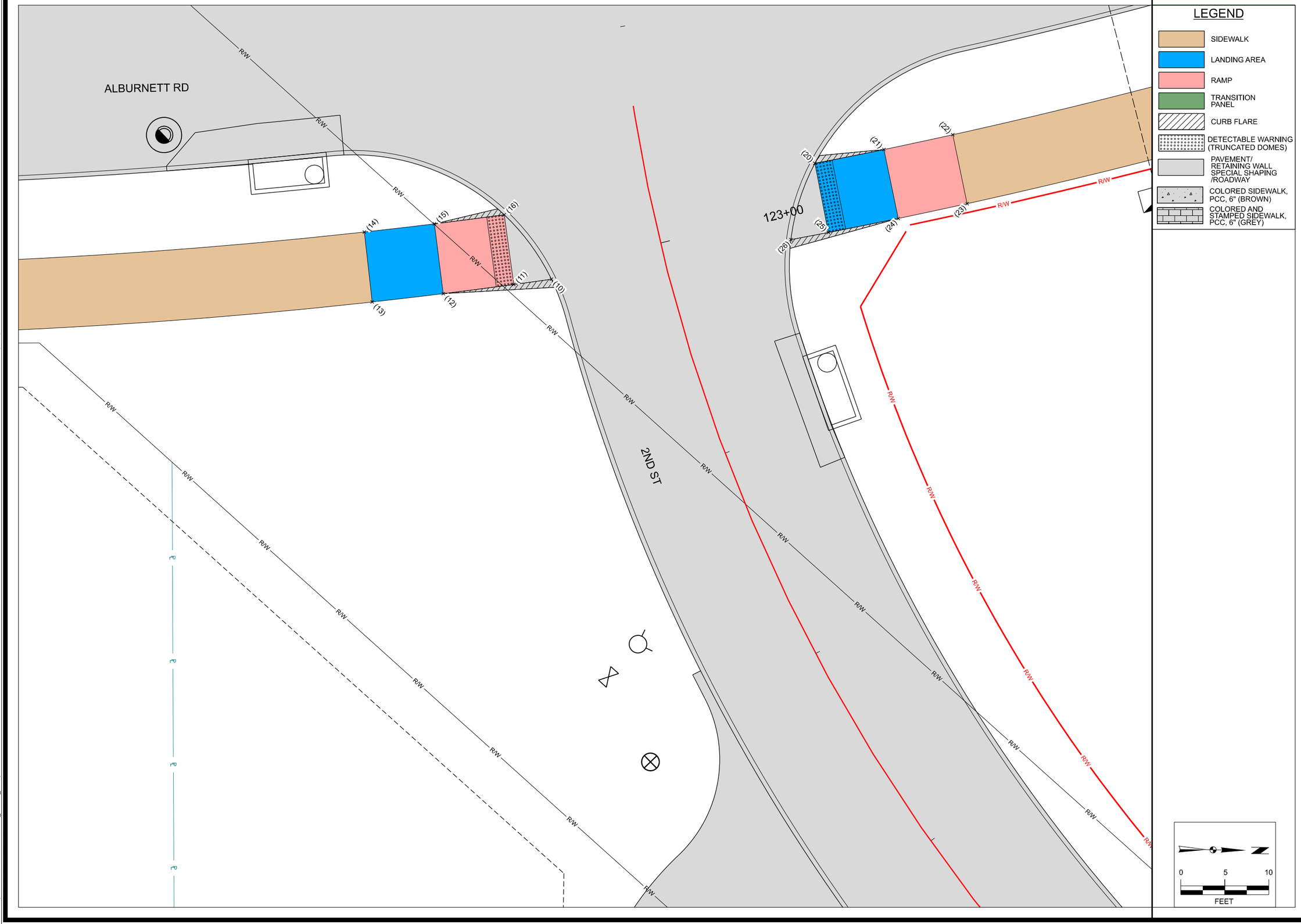
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Project No: 116.0663

Sheet S.12

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.13

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

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Project No: 116.0663

Sheet S.13

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES Point	Station	Offset	Elevation
S13-10	S13-11	Sidewalk Running Slope	4	4.33	0.03	0.7%	0.5% to 5.0%					S13-10	22+51.595	39.00	789.51
S13-10	S13-16	Crosswalk Cross Slope - Yield Condition	6	9.13	0.11	1.2%	0.0% to 2.0%					S13-11	22+47.531	39.00	789.54
S13-11	S13-12	Ramp Running Slope	6	8.08	0.55	6.8%	0.5% to 8.3%					S13-12	22+39.948	39.00	790.09
S13-11	S13-16	Ramp Cross Slope	6	8.00	0.08	1.0%	0.1% to 2.0%					S13-13	22+32.317	39.00	790.21
S13-12	S13-13	Landing/Turning Space	4	8.13	0.12	1.5%	0.1% to 2.0%					S13-14	22+32.317	31.00	790.29
S13-12	S13-15	Landing/Turning Space	4	8.00	0.08	1.0%	0.1% to 2.0%					S13-15	22+39.924	31.00	790.17
S13-13	S13-14	Landing/Turning Space	4	8.00	0.08	1.0%	0.1% to 2.0%					S13-16	22+47.531	31.00	789.62
S13-14	S13-15	Landing/Turning Space	4	8.00	-0.12	-1.5%	0.1% to 2.0%					S13-20	22+81.542	31.00	788.84
S13-15	S13-16	Ramp Running Slope	6	8.00	-0.55	-6.9%	0.5% to 8.3%					S13-21	22+89.149	31.00	788.97
S13-20	S13-21	Landing/Turning Space	4	8.00	0.13	1.6%	0.1% to 2.0%	Yes				S13-22	22+96.756	31.00	788.88
S13-20	S13-25	Landing/Turning Space	4	8.00	0.13	1.6%	0.1% to 2.0%	Yes				S13-23	22+96.661	39.00	789.00
S13-20	S13-26	Crosswalk Cross Slope - Yield Condition	6	9.13	0.10	1.1%	0.0% to 2.0%					S13-24	22+89.149	39.00	789.09
S13-21	S13-22	Ramp Running Slope	6	8.00	-0.09	-1.1%	0.5% to 8.3%					S13-25	22+81.542	39.00	788.97
S13-21	S13-24	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%					S13-26	22+77.478	39.00	788.94
S13-22	S13-23	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%								
S13-23	S13-24	Ramp Running Slope	6	8.00	0.09	1.1%	0.5% to 8.3%								
S13-24	S13-25	Landing/Turning Space	4	8.10	-0.12	-1.5%	0.1% to 2.0%								
S13-25	S13-26	Sidewalk Running Slope	4	4.33	-0.03	-0.7%	0.5% to 5.0%								

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.14

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

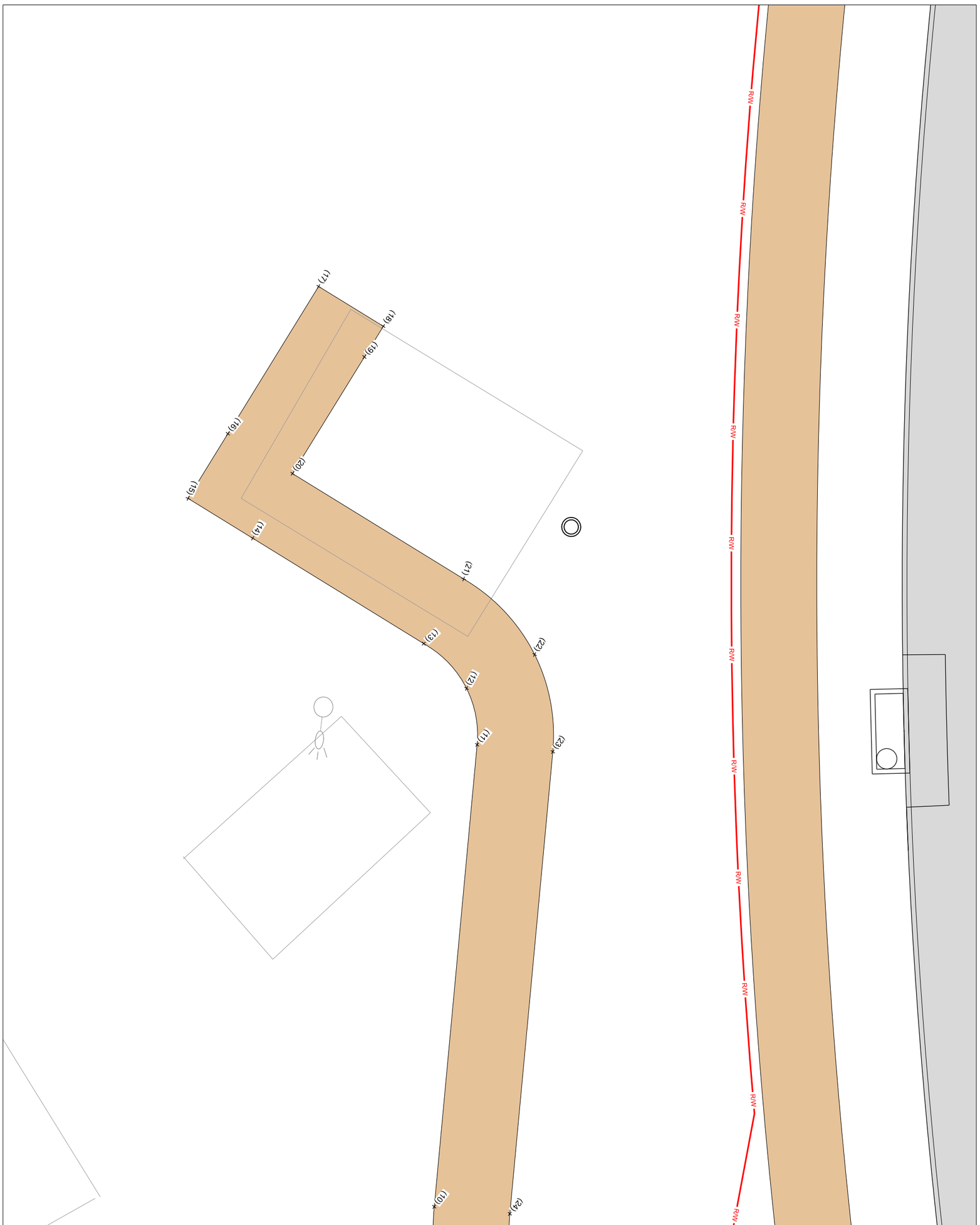
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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet S.14

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Sheet S.15 | Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS

Technician: KMM | Date: 5/8/2026 | T-R-S:

Project No: 116.0663 | Sheet S.15

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Northing	Easting	Elevation
				FT	FT	%	Pos. or Neg.		%						
S15-10	S15-11	Sidewalk Running Slope	4	48.87	0.59	1.2%	0.5% to 5.0%					S15-10	25+06.09	74.48' RT	787.40
S15-10	S15-24	Sidewalk Cross Slope	4	8.00	-0.08	-1.0%	0.5% to 2.0%					S15-11	24+62.89	66.98' RT	787.99
S15-11	S15-12	Sidewalk Running Slope	4	6.11	0.07	1.1%	0.5% to 5.0%					S15-12	24+57.54	67.97' RT	788.06
S15-11	S15-23	Sidewalk Cross Slope	4	8.00	-0.08	-1.0%	0.5% to 2.0%					S15-13	24+53.26	72.41' RT	788.13
S15-12	S15-13	Sidewalk Running Slope	4	6.62	0.07	1.1%	0.5% to 5.0%					S15-14	24+43.47	90.42' RT	788.25
S15-12	S15-22	Sidewalk Cross Slope	4	8.00	-0.08	-1.0%	0.5% to 2.0%					S15-15	24+39.90	97.27' RT	788.16
S15-13	S15-14	Sidewalk Running Slope	4	21.16	0.12	0.6%	0.5% to 5.0%					S15-16	24+33.96	93.20' RT	788.25
S15-13	S15-21	Sidewalk Cross Slope	4	8.00	0.08	1.0%	0.5% to 2.0%					S15-17	24+20.16	84.18' RT	788.54
S15-14	S15-15	Sidewalk Running Slope	4	8.00	-0.09	-1.1%	0.5% to 5.0%					S15-18	24+23.50	77.20' RT	788.62
S15-14	S15-20	Sidewalk Cross Slope	4	8.00	0.08	1.0%	0.5% to 2.0%					S15-19	24+26.53	79.06' RT	788.70
S15-15	S15-16	Sidewalk Running Slope	4	8.00	0.09	1.1%	0.5% to 5.0%					S15-20	24+37.49	86.30' RT	788.33
S15-16	S15-17	Sidewalk Running Slope	4	18.22	0.29	1.6%	0.5% to 5.0%					S15-21	24+47.18	68.19' RT	788.21
S15-16	S15-20	Sidewalk Cross Slope	4	8.00	0.08	1.0%	0.5% to 2.0%					S15-22	24+54.40	60.76' RT	787.98
S15-17	S15-18	Sidewalk Cross Slope	4	8.00	0.08	1.0%	0.5% to 2.0%					S15-23	24+63.75	59.04' RT	787.91
S15-18	S15-19	Sidewalk Running Slope	4	3.80	0.08	2.1%	0.5% to 5.0%					S15-24	25+07.45	66.63' RT	787.32
S15-19	S15-20	Sidewalk Running Slope	4	14.42	-0.37	-2.6%	0.5% to 5.0%								
S15-20	S15-21	Sidewalk Running Slope	4	21.16	-0.12	-0.6%	0.5% to 5.0%								
S15-21	S15-22	Sidewalk Running Slope	4	11.07	-0.23	-2.1%	0.5% to 5.0%								
S15-22	S15-23	Sidewalk Running Slope	4	10.56	-0.07	-0.7%	0.5% to 5.0%								
S15-23	S15-24	Sidewalk Running Slope	4	48.87	-0.59	-1.2%	0.5% to 5.0%								

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/8/2026 | Sheet S.16
Project No: 116.0663

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

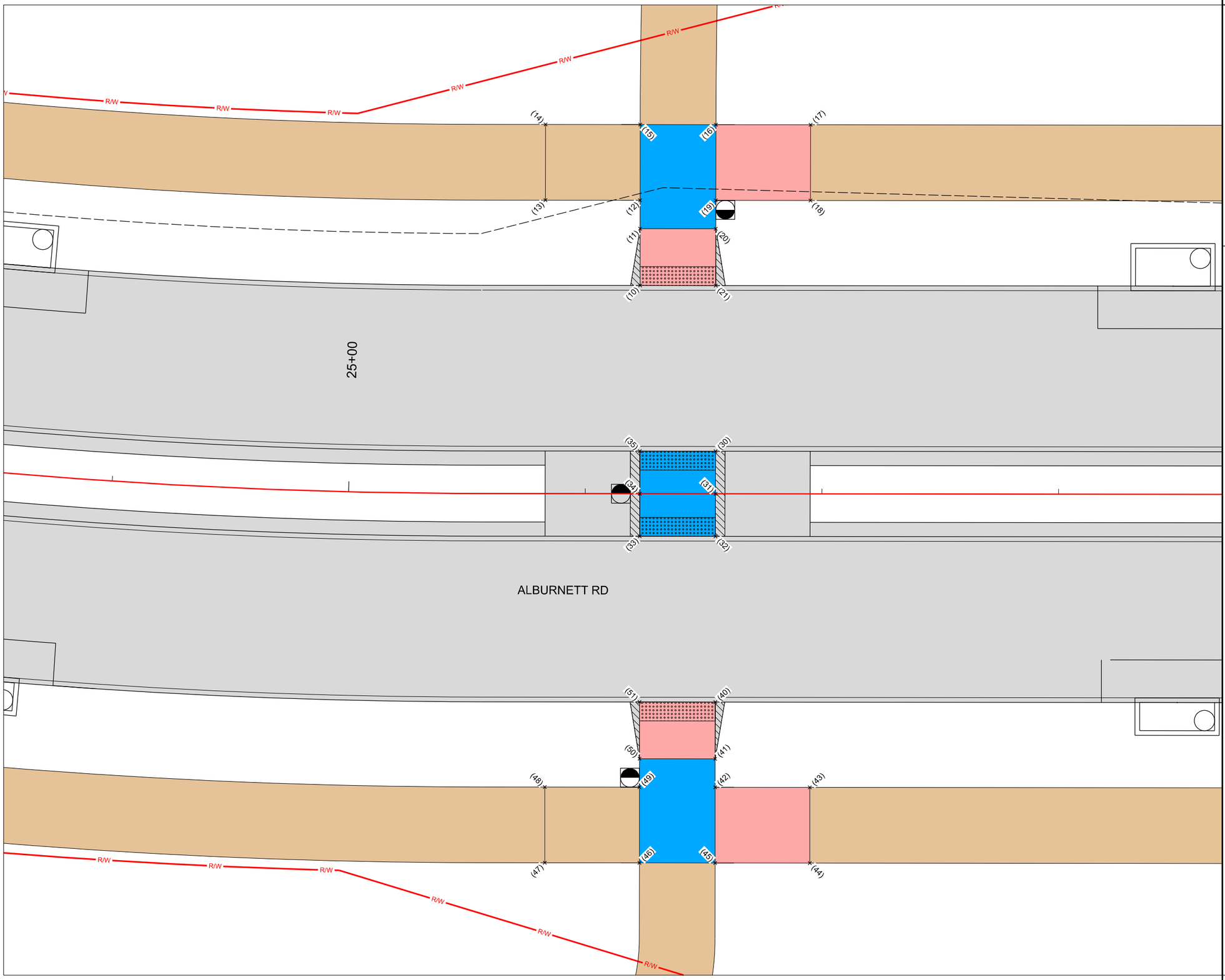
SIDEWALK SHEETS

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CEDAR RAPIDS, IA 52404
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Project No: 116.0663
Sheet S.16

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LEGEND

- SIDEWALK
- LANDING AREA
- RAMP
- TRANSITION PANEL
- CURB FLARE
- DETECTABLE WARNING (TRUNCATED DOMES)
- PAVEMENT/ RETAINING WALL SPECIAL SHAPING /ROADWAY
- COLORED SIDEWALK, PCC, 6" (BROWN)
- COLORED AND STAMPED SIDEWALK, PCC, 6" (GREY)

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:
Technician: KMM Date: 5/8/2026 Pg:

Project No: 116.0663

Sheet S.17

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

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SNYDER & ASSOCIATES

Project No: 116.0663

Sheet S.17

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Northing	Easting	Elevation
				FT	FT	%	Pos. or Neg.		%						
S17-10	S17-11	Ramp Running Slope	6	6.00	0.38	6.3%	0.5% to 8.3%					S17-10	25+30.76	-22.00	786.12
S17-10	S17-21	Ramp Cross Slope	6	8.00	0.09	1.1%	0.1% to 2.0%					S17-11	25+30.76	-28.00	786.50
S17-11	S17-12	Landing/Turning Space	4	3.00	0.03	1.0%	0.1% to 2.0%					S17-12	25+30.76	-31.00	786.53
S17-11	S17-20	Landing/Turning Space	4	8.00	0.09	1.1%	0.1% to 2.0%					S17-13	25+20.76	-31.00	786.85
S17-12	S17-13	Sidewalk Running Slope	4	10.00	0.32	3.2%	0.5% to 5.0%					S17-14	25+20.76	-39.00	786.97
S17-12	S17-15	Landing/Turning Space	4	8.00	0.08	1.0%	0.1% to 2.0%					S17-15	25+30.76	-39.00	786.61
S17-13	S17-14	Sidewalk Cross Slope	4	8.00	0.12	1.5%	0.5% to 2.0%					S17-16	25+38.76	-39.00	786.70
S17-14	S17-15	Sidewalk Running Slope	4	10.00	-0.36	-3.6%	0.5% to 5.0%					S17-17	25+48.76	-39.00	787.28
S17-15	S17-16	Landing/Turning Space	4	8.00	0.09	1.1%	0.1% to 2.0%					S17-18	25+48.76	-31.00	787.16
S17-16	S17-17	Ramp Running Slope	6	10.00	0.58	5.8%	0.5% to 8.3%					S17-19	25+38.76	-31.00	786.62
S17-16	S17-19	Landing/Turning Space	4	8.00	-0.08	-1.0%	0.1% to 2.0%					S17-20	25+38.76	-28.00	786.59
S17-17	S17-18	Sidewalk Cross Slope	4	8.00	-0.12	-1.5%	0.5% to 2.0%					S17-21	25+38.76	-22.00	786.21
S17-18	S17-19	Ramp Running Slope	6	10.00	-0.54	-5.4%	0.5% to 8.3%					S17-30	25+38.76	-4.50	786.56
S17-19	S17-20	Landing/Turning Space	4	3.00	-0.03	-1.0%	0.1% to 2.0%					S17-31	25+38.76	0.00	786.61
S17-20	S17-21	Ramp Running Slope	6	6.00	-0.38	-6.3%	0.5% to 8.3%					S17-32	25+38.76	4.50	786.56
S17-30	S17-31	Landing/Turning Space	4	4.50	0.05	1.1%	0.1% to 2.0%					S17-33	25+30.76	4.50	786.47
S17-30	S17-35	Crosswalk Cross Slope - Yield Condition	6	8.00	-0.09	-1.1%	0.0% to 2.0%					S17-34	25+30.76	0.00	786.52
S17-31	S17-32	Landing/Turning Space	4	4.50	-0.05	-1.1%	0.1% to 2.0%					S17-35	25+30.76	-4.50	786.47
S17-31	S17-34	Landing/Turning Space	4	8.00	-0.09	-1.1%	0.1% to 2.0%					S17-40	25+38.76	22.00	786.21
S17-32	S17-33	Landing/Turning Space	4	8.00	-0.09	-1.1%	0.1% to 2.0%					S17-41	25+38.76	28.00	786.59
S17-33	S17-34	Landing/Turning Space	4	4.50	0.05	1.1%	0.1% to 2.0%					S17-42	25+38.76	31.00	786.62
S17-34	S17-35	Landing/Turning Space	4	4.50	-0.05	-1.1%	0.1% to 2.0%					S17-43	25+48.76	31.00	787.16
S17-40	S17-41	Ramp Running Slope	6	6.00	0.38	6.3%	0.5% to 8.3%					S17-44	25+48.76	39.00	787.28
S17-40	S17-51	Ramp Cross Slope	6	8.00	-0.09	-1.1%	0.1% to 2.0%					S17-45	25+38.76	39.00	786.70
S17-41	S17-42	Landing/Turning Space	4	3.00	0.03	1.0%	0.1% to 2.0%					S17-46	25+30.76	39.00	786.61
S17-41	S17-50	Landing/Turning Space	4	8.00	-0.09	-1.1%	0.1% to 2.0%					S17-47	25+20.76	39.00	786.97
S17-42	S17-43	Ramp Running Slope	6	10.00	0.54	5.4%	0.5% to 8.3%					S17-48	25+20.76	31.00	786.85
S17-43	S17-44	Sidewalk Cross Slope	4	8.00	0.12	1.5%	0.5% to 2.0%					S17-49	25+30.76	31.00	786.53
S17-44	S17-45	Ramp Running Slope	6	10.00	-0.58	-5.8%	0.5% to 8.3%					S17-50	25+30.76	28.00	786.50
S17-45	S17-46	Landing/Turning Space	4	8.00	-0.09	-1.1%	0.1% to 2.0%					S17-51	25+30.76	22.00	786.12
S17-46	S17-47	Sidewalk Running Slope	4	10.00	0.36	3.6%	0.5% to 5.0%								
S17-46	S17-49	Landing/Turning Space	4	8.00	-0.08	-1.0%	0.1% to 2.0%								
S17-47	S17-48	Sidewalk Cross Slope	4	8.00	-0.12	-1.5%	0.5% to 2.0%								
S17-48	S17-49	Sidewalk Running Slope	4	10.00	-0.32	-3.2%	0.5% to 5.0%								
S17-49	S17-50	Landing/Turning Space	4	3.00	-0.03	-1.0%	0.1% to 2.0%								
S17-50	S17-51	Ramp Running Slope	6	6.00	-0.38	-6.3%	0.5% to 8.3%								

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/8/2026 | Pg:

Project No: 116.0663

Sheet S.18

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

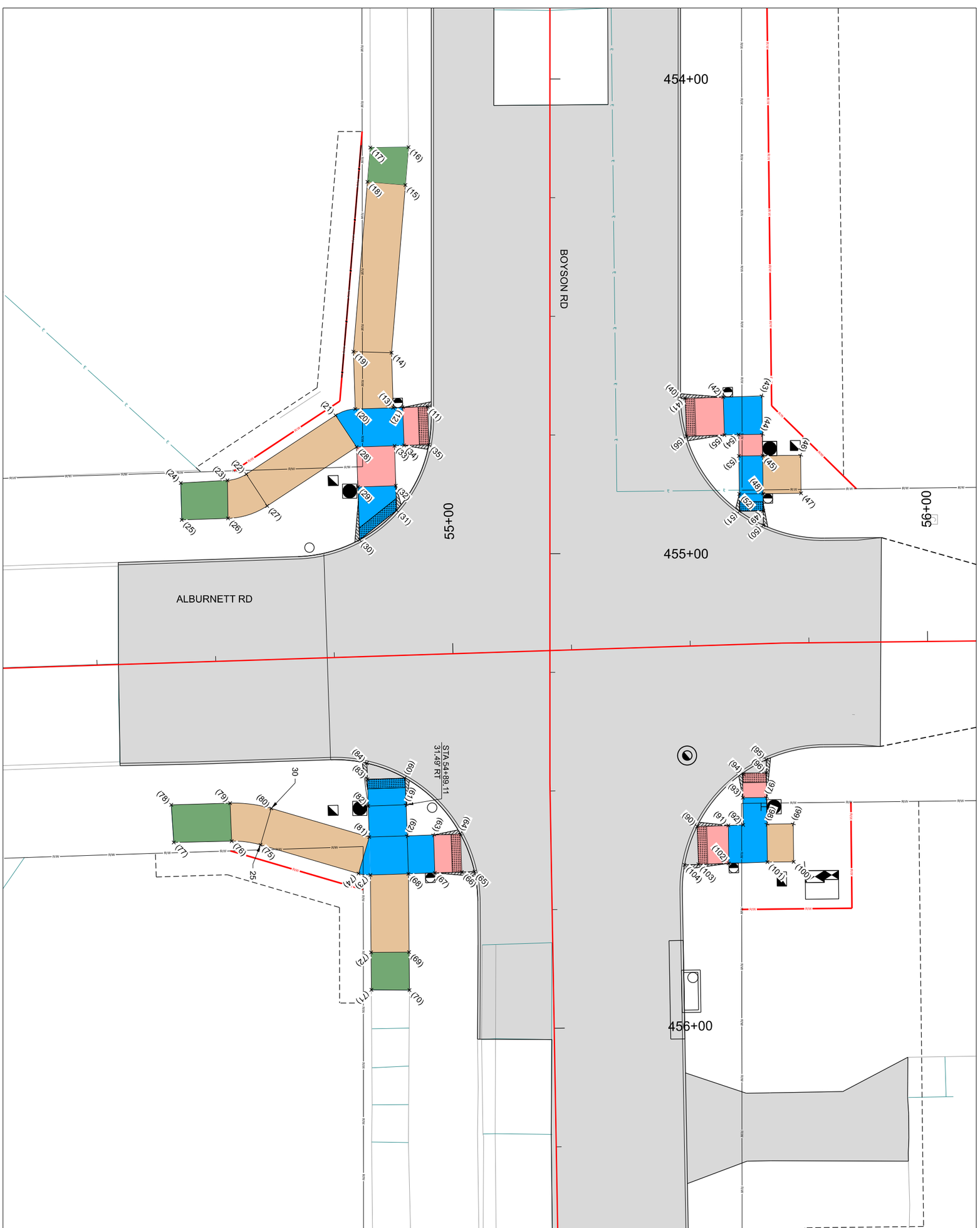
SNYDER & ASSOCIATES, INC.
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Project No: 116.0663

Sheet S.18

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Sheet S.19 | Project No: 116.0663

SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/8/2026	T-R-S:	
Project No: 116.0663	Sheet S.19		

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
				FT	FT	%	Pos. or Neg.		%			Point	Northing	Easting	Elevation
S19-10	S19-11	Sidewalk Running Slope	4	0.95	0.01	1.1%	0.5% to 5.0%					S19-10	54+97.10	-52.18	836.51
S19-10	S19-35	Crosswalk Cross Slope - No Yield Condition	6	8.08	-0.09	-1.1%	0.0% to 5.0%					S19-11	54+96.32	-52.18	836.52
S19-11	S19-12	Ramp Running Slope	6	5.05	0.38	7.5%	0.5% to 8.3%	Yes				S19-12	54+91.11	-52.18	836.90
S19-11	S19-35	Ramp Cross Slope	6	8.00	-0.10	-1.3%	0.1% to 2.0%					S19-13	54+89.11	-52.18	836.88
S19-12	S19-13	Landing/Turning Space	4	2.00	-0.02	-1.0%	0.1% to 2.0%					S19-14	54+89.11	-63.80	836.81
S19-12	S19-34	Landing/Turning Space	4	8.00	-0.10	-1.3%	0.1% to 2.0%					S19-15	54+93.17	-99.01	837.16
S19-13	S19-14	Sidewalk Running Slope	4	11.62	-0.07	-0.6%	0.5% to 5.0%					S19-16	54+94.09	-106.95	837.29
S19-13	S19-20	Landing/Turning Space	4	8.00	-0.08	-1.0%	0.1% to 2.0%					S19-17	54+86.06	-107.15	837.31
S19-14	S19-15	Sidewalk Running Slope	4	35.44	0.35	1.0%	0.5% to 5.0%					S19-18	54+85.22	-99.92	837.24
S19-14	S19-19	Sidewalk Cross Slope	4	8.01	0.10	1.2%	0.5% to 2.0%					S19-19	54+81.11	-64.26	836.91
S19-15	S19-16	Sidewalk Running Slope	4	8.00	0.13	1.6%	0.5% to 5.0%					S19-20	54+81.11	-52.18	836.80
S19-15	S19-18	Sidewalk Cross Slope	4	8.00	0.08	1.0%	0.5% to 2.0%					S19-21	54+76.92	-51.00	836.82
S19-16	S19-17	Match Existing Cross Slope	4	8.03	0.02	0.2%	Match Existing					S19-22	54+57.71	-39.21	836.49
S19-17	S19-18	Sidewalk Running Slope	4	7.27	-0.07	-1.0%	0.5% to 5.0%					S19-23	54+53.72	-38.04	836.38
S19-18	S19-19	Sidewalk Running Slope	4	35.90	-0.33	-0.9%	0.5% to 5.0%					S19-24	54+43.86	-37.80	836.12
S19-19	S19-20	Sidewalk Running Slope	4	12.08	-0.11	-0.9%	0.5% to 5.0%					S19-25	54+43.79	-30.01	836.02
S19-20	S19-21	Landing/Turning Space	4	4.40	0.02	0.5%	0.1% to 2.0%					S19-26	54+53.55	-30.03	836.30
S19-21	S19-22	Sidewalk Running Slope	4	22.54	-0.33	-1.5%	0.5% to 5.0%					S19-27	54+61.89	-32.39	836.41
S19-21	S19-28	Landing/Turning Space	4	8.00	-0.12	-1.5%	0.1% to 2.0%					S19-28	54+81.11	-44.18	836.70
S19-22	S19-23	Sidewalk Running Slope	4	4.21	-0.11	-2.6%	0.5% to 5.0%					S19-29	54+81.11	-35.76	836.21
S19-22	S19-27	Sidewalk Cross Slope	4	8.00	-0.08	-1.0%	0.5% to 2.0%					S19-30	54+81.11	-24.61	836.10
S19-23	S19-24	Sidewalk Running Slope	4	9.86	-0.26	-2.6%	0.5% to 5.0%					S19-31	54+89.11	-30.58	836.23
S19-23	S19-26	Sidewalk Cross Slope	4	8.00	-0.08	-1.0%	0.5% to 2.0%					S19-32	54+89.11	-35.76	836.28
S19-24	S19-25	Sidewalk Cross Slope	4	7.79	-0.10	-1.3%	0.5% to 2.0%					S19-33	54+89.11	-44.18	836.78
S19-25	S19-26	Sidewalk Running Slope	4	9.76	0.28	2.9%	0.5% to 5.0%					S19-34	54+91.11	-44.18	836.80
S19-26	S19-27	Sidewalk Running Slope	4	8.77	0.11	1.3%	0.5% to 5.0%					S19-35	54+96.33	-44.18	836.42
S19-27	S19-28	Sidewalk Running Slope	4	22.54	0.29	1.3%	0.5% to 5.0%					S19-40	55+49.63	-52.18	837.32
S19-28	S19-29	Ramp Running Slope	6	8.42	-0.49	-5.8%	0.5% to 8.3%					S19-41	55+50.60	-52.18	837.33
S19-28	S19-33	Ramp Cross Slope	6	8.00	0.08	1.0%	0.1% to 2.0%					S19-42	55+58.64	-52.18	837.71
S19-29	S19-30	Ramp Running Slope	6	10.77	-0.11	-1.0%	0.5% to 8.3%					S19-43	55+66.80	-52.08	837.79
S19-29	S19-32	Ramp Cross Slope	6	8.00	0.07	0.9%	0.1% to 2.0%					S19-44	55+66.63	-44.08	837.71
S19-30	S19-31	Crosswalk Cross Slope - No Yield Condition	6	10.15	0.13	1.3%	0.0% to 5.0%					S19-45	55+66.54	-39.57	837.66
S19-31	S19-32	Ramp Running Slope	6	4.61	0.05	1.1%	0.5% to 8.3%					S19-46	55+73.66	-39.50	837.77
S19-32	S19-33	Ramp Running Slope	6	8.42	0.50	5.9%	0.5% to 8.3%					S19-47	55+73.66	-31.50	837.69
S19-33	S19-34	Landing/Turning Space	4	2.00	0.02	1.0%	0.1% to 2.0%					S19-48	55+66.37	-31.57	837.62
S19-34	S19-35	Ramp Running Slope	6	5.05	-0.38	-7.5%	0.5% to 8.3%	Yes				S19-49	55+66.29	-27.94	837.72
S19-40	S19-41	Sidewalk Running Slope	4	0.97	0.01	1.0%	0.5% to 5.0%					S19-50	55+66.23	-24.94	837.70
S19-40	S19-56	Crosswalk Cross Slope - No Yield Condition	6	8.08	0.09	1.1%	0.0% to 5.0%					S19-51	55+61.30	-28.04	837.64
S19-41	S19-42	Ramp Running Slope	6	8.04	0.38	4.7%	0.5% to 8.3%					S19-52	55+61.37	-31.68	837.54
S19-41	S19-56	Ramp Cross Slope	6	8.00	0.08	1.0%	0.1% to 2.0%					S19-53	55+61.54	-39.67	837.61
S19-42	S19-43	Landing/Turning Space	4	8.16	0.08	1.0%	0.1% to 2.0%					S19-54	55+61.63	-44.18	837.66
S19-42	S19-55	Landing/Turning Space	4	8.00	-0.08	-1.0%	0.1% to 2.0%					S19-55	55+58.64	-44.18	837.63
S19-43	S19-44	Landing/Turning Space	4	8.11	-0.08	-1.0%	0.1% to 2.0%					S19-56	55+50.61	-44.18	837.41
S19-44	S19-45	Sidewalk Running Slope	4	4.51	-0.05	-1.1%	0.5% to 5.0%					S19-60	54+89.11	25.86	836.56
S19-44	S19-54	Landing/Turning Space	4	5.00	-0.05	-1.0%	0.1% to 2.0%					S19-61	54+89.11	31.49	836.64
S19-45	S19-46	Sidewalk Running Slope	4	8.00	0.11	1.4%	0.5% to 5.0%					S19-62	54+89.11	38.04	836.74
S19-45	S19-48	Landing/Turning Space	4	8.00	-0.04	-0.5%	0.1% to 2.0%					S19-63	54+94.67	38.04	836.82
S19-45	S19-53	Landing/Turning Space	4	5.00	-0.05	-1.0%	0.1% to 2.0%					S19-64	55+00.34	38.04	837.06
S19-46	S19-47	Sidewalk Cross Slope	4	8.00	-0.08	-1.0%	0.5% to 2.0%					S19-65	55+03.03	46.04	837.19
S19-47	S19-48	Sidewalk Running Slope	4	7.99	-0.07	-0.9%	0.5% to 5.0%					S19-66	55+00.35	46.04	837.17
S19-48	S19-49	Ramp Running Slope	6	3.64	0.10	2.7%	0.5% to 8.3%					S19-67	54+94.67	46.04	836.94
S19-48	S19-52	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				S19-68	54+89.11	46.04	836.86
S19-49	S19-50	Sidewalk Running Slope	4	2.99	-0.02	-0.7%	0.5% to 5.0%					S19-69	54+88.72	62.53	837.68
S19-49	S19-51	Ramp Cross Slope	6	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				S19-70	54+88.53	70.53	838.05
S19-50	S19-51	Crosswalk Cross Slope - No Yield Condition	6	5.84	-0.06	-1.0%	0.0% to 5.0%					S19-71	54+80.52	70.23	838.17
S19-51	S19-52	Ramp Running Slope	6	3.64	-0.10	-2.7%	0.5% to 8.3%					S19-72	54+80.71	62.34	837.80
S19-52	S19-53	Landing/Turning Space	4	8.00	0.07	0.9%	0.1% to 2.0%					S19-73	54+81.11	46.04	836.80
S19-53	S19-54	Sidewalk Running Slope	4	4.50	0.05	1.1%	0.5% to 5.0%					S19-74	54+78.61	45.64	836.82
S19-54	S19-55	Landing/Turning Space	4	3.00	-0.03	-1.0%	0.1% to 2.0%					S19-75	54+58.18	38.94	836.36
S19-55	S19-56	Ramp Running Slope	6	8.02	-0.22	-2.7%	0.5% to 8.3%					S19-76	54+52.12	37.94	836.23
S19-60	S19-61	Landing/Turning Space	4	5.63	0.08	1.4%	0.1% to 2.0%					S19-77	54+39.92	37.84	835.96
S19-60	S19-83	Landing/Turning Space	4	8.00	-0.06	-0.7%	0.1% to 2.0%					S19-78	54+39.67	29.90	835.97
S19-60	S19-84	Crosswalk Cross Slope - No Yield Condition	6	8.72	-0.14	-1.6%	0.0% to 5.0%					S19-79	54+52.05	29.94	836.11
S19-61	S19-62	Landing/Turning Space	4	6.55	0.10	1.5%	0.1% to 2.0%					S19-80	54+60.68	31.34	836.24
S19-61	S19-82	Landing/Turning Space	4	8.00	-0.06	-0.7%	0.1% to 2.0%					S19-81	54+81.11	38.04	836.68
S19-62	S19-63	Landing/Turning Space	4	5.57	0.08	1.4%	0.1% to 2.0%					S19-82	54+81.11	31.49	836.58
S19-62	S19-68	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%					S19-83	54+81.11	25.86	836.50
S19-62	S19-81	Landing/Turning Space	4	8.00	-0.06	-0.8%	0.1% to 2.0%					S19-84	54+81.11	22.47	836.42
S19-63	S19-64	Ramp Running Slope	6	5.67	0.24	4.2%	0.5% to 8.3%					S19-90	55+50.20	38.04	837.77
S19-63	S19-67	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%					S19-91	55+56.79	38.04	838.04
S19-64	S19-65	Crosswalk Cross Slope - No Yield Condition	6	8.47	0.13	1.5%	0.0% to 5.0%					S19-92	55+59.92	38.04	838.01
S19-64	S19-66	Ramp Cross Slope	6	8.00	0.11	1.4%	0.1% to 2.0%					S19-93	55+60.04	32.31	837.95
S19-65	S19-66	Sidewalk Running Slope	4	2.68	-0.02	-0.7%	0.5% to 5.0%					S19-94	55+60.14	27.13	837.90
S19-66	S19-67	Ramp Running Slope	6	5.68	-0.23	-4.1%	0.5% to 8.3%					S19-95	55+65.20	24.45	837.95
S19-67	S19-68	Landing/Turning Space	4	5.57	-0.08	-1.4%	0.1% to 2.0%					S19-96	55+65.14	27.23	837.97
S19-68	S19-69	Ramp Running Slope	6	16.50	0.82	5.0%	0.5% to 8.3%					S19-97	55+65.04	32.41	838.02

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/8/2026 Sheet S.20
Project No: 116.0663

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SIDEWALK SHEETS

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Project No: 116.0663
Sheet S.20

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut			Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink									
Alburnett																						
12+50.00	0	0	0	4	4	5	-5	0	0	0	0	0	0									
12+75.00	87	87	87	5	5	6	81	0	0	0	0	0	0									
13+00.00	80	80	80	2	2	3	77	0	0	0	0	0	0									
13+25.00	90	90	90	3	3	4	86	0	0	0	0	0	0									
13+50.00	94	94	94	4	4	5	89	0	0	0	0	0	0									
13+75.00	94	94	94	5	5	7	87	0	0	0	0	0	0									
14+00.00	112	112	112	7	7	9	102	0	0	0	0	0	0									
14+25.00	120	120	120	15	15	20	101	0	0	0	0	0	0									
14+50.00	128	128	128	28	28	36	92	0	0	0	0	0	0									
14+75.00	95	95	95	33	33	43	52	0	0	0	0	0	0									
15+00.00	43	43	43	56	56	73	-29	0	0	0	0	0	0									
15+25.00	44	44	44	73	73	95	-51	0	0	0	0	0	0									
15+50.00	54	54	54	39	39	51	4	0	0	0	0	0	0									
15+75.00	84	84	84	5	5	7	77	0	0	0	0	0	0									
16+00.00	109	109	109	2	2	2	107	0	0	0	0	0	0									
16+25.00	125	125	125	1	1	2	123	0	0	0	0	0	0									
16+50.00	170	170	170	0	0	0	170	0	0	0	0	0	0									
16+75.00	101	101	101	0	0	0	101	0	0	0	0	0	0									
17+00.00	0	0	0	0	0	0	0	0	0	0	0	0	0									
17+25.00	60	60	60	4	4	5	55	0	0	0	0	0	0									
17+50.00	115	115	115	13	13	17	97	0	0	0	0	0	0									
17+75.00	93	93	93	25	25	33	61	0	0	0	0	0	0									
18+00.00	85	85	85	41	41	53	32	0	0	0	0	0	0									
18+25.00	66	66	66	99	99	129	-63	0	0	0	0	0	0									
18+50.00	28	28	28	155	155	202	-174	0	0	0	0	0	0									
18+75.00	21	21	21	158	158	206	-185	0	0	0	0	0	0									
19+00.00	29	29	29	141	141	184	-155	0	0	0	0	0	0									
19+25.00	39	39	39	139	139	181	-142	0	0	0	0	0	0									
19+50.00	42	42	42	133	133	173	-132	0	0	0	0	0	0									
19+75.00	38	38	38	87	87	113	-75	0	0	0	0	0	0									
20+00.00	52	52	52	50	50	65	-14	0	0	0	0	0	0									
20+25.00	68	68	68	48	48	62	6	0	0	0	0	0	0									
20+50.00	75	75	75	56	56	73	2	0	0	0	0	0	0									
20+75.00	94	94	94	74	74	96	-2	0	0	0	0	0	0									
21+00.00	92	92	92	88	88	115	-23	0	0	0	0	0	0									
21+25.00	70	70	70	94	94	122	-52	0	0	0	0	0	0									
21+50.00	77	77	77	84	84	109	-33	0	0	0	0	0	0									
21+75.00	87	87	87	69	69	89	-2	0	0	0	0	0	0									
22+00.00	92	92	92	74	74	96	-5	0	0	0	0	0	0									
22+25.00	93	93	93	67	67	88	6	0	0	0	0	0	0									
22+50.00	64	64	64	38	38	50	14	0	0	0	0	0	0									
22+75.00	60	60	60	13	13	17	43	0	0	0	0	0	0									
23+00.00	121	121	121	3	3	4	117	0	0	0	0	0	0									
23+25.00	186	186	186	4	4	5	182	0	0	0	0	0	0									
23+50.00	228	228	228	3	3	4	224	0	0	0	0	0	0									
23+75.00	252	252	252	2	2	2	250	0	0	0	0	0	0									
24+00.00	262	262	262	1	1	1	261	0	0	0	0	0	0									
24+25.00	262	262	262	2	2	3	259	0	0	0	0	0	0									
24+50.00	225	225	225	12	12	15	211	0	0	0	0	0	0									
24+75.00	157	157	157	43	43	57	101	0	0	0	0	0	0									
25+00.00	90	90	90	102	102	133	-43	0	0	0	0	0	0									
25+25.00	38	38	38	176	176	229	-192	0	0	0	0	0	0									
25+50.00	19	19	19	286	286	372	-353	0	0	0	0	0	0									
25+75.00	15	15	15	441	441	573	-558	0	0	0	0	0	0									
26+00.00	5	5	5	616	616	801	-796	0	0	0	0	0	0									
26+25.00	1	1	1	657	657	854	-853	0	0	0	0	0	0									
26+29.20	1	1	1	854	854	1,111	-1,110	0	0	0	0	0	0									
26+50.00	1	1	1	1,105	1,105	1,436	-1,435	0	0	0	0	0	0									
26+75.00	1	1	1	1,271	1,271	1,652	-1,651	0	0	0	0	0	0									
27+00.00	0	0	0	1,418	1,418	1,843	-1,843	0	0	0	0	0	0									
27+25.00	0	0	0	1,552	1,552	2,018	-2,018	0	0	0	0	0	0									
27+50.00	0	0	0	1,631	1,631	2,120	-2,120	0	0	0	0	0	0									
27+75.00	0	0	0	1,657	1,657	2,154	-2,154	0	0	0	0	0	0									
28+00.00	0	0	0	1,649	1,649	2,144	-2,144	0	0	0	0	0	0									
28+25.00	0	0	0	1,671	1,671	2,173	-2,173	0	0	0	0	0	0									
28+50.00	3	3	3	1,250	1,250	1,625	-1,622	0	0	0	0	0	0									
28+75.00	27	27	27	482	482	627	-600	0	0	0	0	0	0									
29+00.00																						
Subtotals:	5,062	5,062	5,062	18,920	18,920	24,599	-19,538	0	0	0	0	0	0									

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	05/13/26	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026

Project No: 116.0663 | Sheet T.1

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EARTHWORK QUANTITIES

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet T.1

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut			Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink									
29+00.00	58	58	58	140	140	182	-124	0	0	0	0	0	0									
29+25.00	67	67	67	71	71	92	-26	0	0	0	0	0	0									
29+50.00	92	92	92	13	13	17	75	0	0	0	0	0	0									
29+75.00	335	335	335	7	7	9	326	0	0	0	0	0	0									
30+00.00	495	495	495	26	26	34	462	0	0	0	0	0	0									
30+25.00	545	545	545	112	112	145	400	0	0	0	0	0	0									
30+50.00	395	395	395	705	705	916	-521	0	0	0	0	0	0									
30+75.00	72	72	72	1,315	1,315	1,710	-1,638	0	0	0	0	0	0									
31+00.00	12	12	12	1,469	1,469	1,910	-1,899	0	0	0	0	0	0									
31+25.00	33	33	33	1,461	1,461	1,900	-1,866	0	0	0	0	0	0									
31+50.00	57	57	57	1,269	1,269	1,650	-1,593	0	0	0	0	0	0									
31+75.00	57	57	57	1,075	1,075	1,398	-1,341	0	0	0	0	0	0									
32+00.00	33	33	33	994	994	1,292	-1,260	0	0	0	0	0	0									
32+25.00	10	10	10	994	994	1,292	-1,282	0	0	0	0	0	0									
32+50.00	2	2	2	1,012	1,012	1,316	-1,314	0	0	0	0	0	0									
32+75.00	1	1	1	979	979	1,273	-1,272	0	0	0	0	0	0									
33+00.00	0	0	0	818	818	1,063	-1,063	0	0	0	0	0	0									
33+25.00	0	0	0	521	521	678	-678	0	0	0	0	0	0									
33+50.00	0	0	0	275	275	357	-357	0	0	0	0	0	0									
33+75.00	0	0	0	116	116	151	-151	0	0	0	0	0	0									
34+00.00																						
Alburnett																						
Totals:	7,325	7,325	7,325	32,293	32,293	41,984	-34,660	0	0	0	0	0	0									

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	05/13/26	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026 | Sheet T.2
Project No: 116.0663

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EARTHWORK QUANTITIES

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663
Sheet T.2

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
8 • 21 • 15

Station	Cut			Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink									
Marion																						
108+00.00	108	108	108	0	0	0	108	0	0	0	0	0	0									
108+25.00	117	117	117	1	1	1	116	0	0	0	0	0	0									
108+50.00	123	123	123	0	0	0	123	0	0	0	0	0	0									
108+75.00	126	126	126	0	0	1	126	0	0	0	0	0	0									
109+00.00	126	126	126	2	2	3	123	0	0	0	0	0	0									
109+25.00	130	130	130	4	4	6	124	0	0	0	0	0	0									
109+50.00	134	134	134	4	4	5	129	0	0	0	0	0	0									
109+75.00	131	131	131	2	2	3	128	0	0	0	0	0	0									
110+00.00	126	126	126	3	3	3	123	0	0	0	0	0	0									
110+25.00	121	121	121	3	3	4	118	0	0	0	0	0	0									
110+50.00	118	118	118	2	2	3	116	0	0	0	0	0	0									
110+75.00	114	114	114	1	1	2	113	0	0	0	0	0	0									
111+00.00	110	110	110	4	4	5	105	0	0	0	0	0	0									
111+25.00	108	108	108	10	10	13	95	0	0	0	0	0	0									
111+50.00	110	110	110	20	20	26	83	0	0	0	0	0	0									
111+75.00	114	114	114	13	13	17	98	0	0	0	0	0	0									
112+00.00	121	121	121	0	0	0	121	0	0	0	0	0	0									
112+25.00	120	120	120	1	1	1	119	0	0	0	0	0	0									
112+50.00	123	123	123	1	1	1	121	0	0	0	0	0	0									
112+75.00	120	120	120	0	0	0	120	0	0	0	0	0	0									
113+00.00	122	122	122	2	2	3	119	0	0	0	0	0	0									
113+25.00	120	120	120	7	7	10	110	0	0	0	0	0	0									
113+50.00	103	103	103	8	8	10	93	0	0	0	0	0	0									
113+75.00	98	98	98	6	6	8	90	0	0	0	0	0	0									
114+00.00	94	94	94	3	3	4	90	0	0	0	0	0	0									
114+25.00	90	90	90	4	4	6	84	0	0	0	0	0	0									
114+50.00	87	87	87	8	8	11	76	0	0	0	0	0	0									
114+75.00	84	84	84	9	9	12	72	0	0	0	0	0	0									
115+00.00	86	86	86	10	10	13	73	0	0	0	0	0	0									
115+25.00	92	92	92	10	10	13	79	0	0	0	0	0	0									
115+50.00	95	95	95	10	10	13	83	0	0	0	0	0	0									
115+75.00	93	93	93	8	8	10	83	0	0	0	0	0	0									
116+00.00																						
Marion Totals:	3,563	3,563	3,563	158	158	207	3,358	0	0	0	0	0	0									

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	05/13/26	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet T.3

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EARTHWORK QUANTITIES

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet T.3

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
8 4 - 2 1 - 1 5

	Cut			Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink									
8thAve																						
212+50.00	0	0	0	0	0	0	0	0	0	0	0	0	0									
212+75.00	72	72	72	0	0	0	72	0	0	0	0	0	0									
213+00.00	69	69	69	0	0	0	69	0	0	0	0	0	0									
213+25.00	67	67	67	0	0	0	67	0	0	0	0	0	0									
213+50.00	96	96	96	0	0	0	96	0	0	0	0	0	0									
213+75.00	142	142	142	0	0	0	142	0	0	0	0	0	0									
214+00.00	97	97	97	0	0	0	97	0	0	0	0	0	0									
214+25.00	37	37	37	0	0	0	37	0	0	0	0	0	0									
214+50.00	36	36	36	0	0	0	36	0	0	0	0	0	0									
214+75.00	36	36	36	0	0	0	36	0	0	0	0	0	0									
215+00.00	36	36	36	0	0	0	36	0	0	0	0	0	0									
215+25.00	36	36	36	0	0	0	36	0	0	0	0	0	0									
215+50.00	36	36	36	0	0	0	36	0	0	0	0	0	0									
215+75.00	56	56	56	0	0	0	56	0	0	0	0	0	0									
216+00.00	76	76	76	1	1	2	74	0	0	0	0	0	0									
216+25.00	76	76	76	3	3	4	72	0	0	0	0	0	0									
216+50.00	75	75	75	2	2	3	73	0	0	0	0	0	0									
216+75.00	80	80	80	0	0	0	80	0	0	0	0	0	0									
217+00.00	94	94	94	0	0	0	94	0	0	0	0	0	0									
217+25.00	98	98	98	0	0	0	98	0	0	0	0	0	0									
217+50.00	104	104	104	0	0	0	104	0	0	0	0	0	0									
217+75.00	105	105	105	0	0	0	105	0	0	0	0	0	0									
218+00.00	89	89	89	0	0	0	89	0	0	0	0	0	0									
218+25.00	79	79	79	0	0	0	79	0	0	0	0	0	0									
218+50.00	69	69	69	0	0	0	69	0	0	0	0	0	0									
218+75.00	60	60	60	0	0	0	60	0	0	0	0	0	0									
219+00.00	55	55	55	1	1	2	53	0	0	0	0	0	0									
219+25.00	50	50	50	2	2	3	47	0	0	0	0	0	0									
219+50.00	46	46	46	3	3	4	43	0	0	0	0	0	0									
219+75.00	50	50	50	2	2	3	48	0	0	0	0	0	0									
220+00.00	59	59	59	1	1	1	58	0	0	0	0	0	0									
220+25.00	61	61	61	1	1	1	60	0	0	0	0	0	0									
220+50.00																						
8thAve																						
Totals:	2,144	2,144	2,144	17	17	23	2,123	0	0	0	0	0	0									

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	05/13/26	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026 | Sheet T.4
Project No: 116.0663

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EARTHWORK QUANTITIES

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet T.4

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut			Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink									
9th																						
320+25.00	0	0	0	0	0	0	0	0	0	0	0	0	0									
320+50.00	68	68	68	0	0	0	68	0	0	0	0	0	0									
320+75.00	54	54	54	0	0	0	54	0	0	0	0	0	0									
321+00.00	47	47	47	0	0	0	47	0	0	0	0	0	0									
321+25.00	42	42	42	0	0	0	41	0	0	0	0	0	0									
321+50.00	36	36	36	0	0	0	36	0	0	0	0	0	0									
321+75.00																						
9th																						
Totals:	247	247	247	1	1	2	246	0	0	0	0	0	0									

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/13/2026
Project No: 116.0663

Sheet T.5

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EARTHWORK QUANTITIES

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet T.5

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
8-21-15

Station	Cut			Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink									
2nd																						
123+00.00	0	0	0	0	0	0	0	0	0	0	0	0	0									
123+25.00	86	86	86	0	0	0	85	0	0	0	0	0	0									
123+50.00	87	87	87	0	0	0	86	0	0	0	0	0	0									
123+75.00	92	92	92	0	0	0	92	0	0	0	0	0	0									
124+00.00	84	84	84	0	0	0	84	0	0	0	0	0	0									
124+25.00	57	57	57	0	0	0	57	0	0	0	0	0	0									
124+50.00	44	44	44	1	1	1	43	0	0	0	0	0	0									
124+75.00																						
2nd Totals:	449	449	449	1	1	2	448	0	0	0	0	0	0									

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	05/13/26	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/13/2026

Project No: 116.0663 | Sheet T.6

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EARTHWORK QUANTITIES

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet T.6

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
8-21-15

Station	Cut			Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink									
Boyson																						
449+25.00	0	0	0	0	0	0	0	0	0	0	0	0	0									
449+50.00	8	8	8	1	1	2	6	0	0	0	0	0	0									
449+75.00	9	9	9	2	2	3	6	0	0	0	0	0	0									
450+00.00	10	10	10	3	3	4	6	0	0	0	0	0	0									
450+25.00	11	11	11	12	12	16	-5	0	0	0	0	0	0									
450+50.00	14	14	14	18	18	23	-9	0	0	0	0	0	0									
450+75.00	18	18	18	14	14	18	0	0	0	0	0	0	0									
451+00.00	18	18	18	14	14	18	-1	0	0	0	0	0	0									
451+25.00	18	18	18	8	8	11	7	0	0	0	0	0	0									
451+50.00	19	19	19	7	7	9	11	0	0	0	0	0	0									
451+75.00	57	57	57	9	9	12	45	0	0	0	0	0	0									
452+00.00	80	80	80	5	5	7	74	0	0	0	0	0	0									
452+25.00	77	77	77	2	2	3	74	0	0	0	0	0	0									
452+50.00	93	93	93	1	1	1	92	0	0	0	0	0	0									
452+75.00	95	95	95	0	0	1	94	0	0	0	0	0	0									
453+00.00	87	87	87	0	0	1	87	0	0	0	0	0	0									
453+25.00	82	82	82	0	0	0	82	0	0	0	0	0	0									
453+50.00	71	71	71	1	1	1	70	0	0	0	0	0	0									
453+75.00	57	57	57	4	4	5	52	0	0	0	0	0	0									
454+00.00	52	52	52	11	11	14	38	0	0	0	0	0	0									
454+25.00	71	71	71	18	18	24	48	0	0	0	0	0	0									
454+50.00	92	92	92	21	21	27	65	0	0	0	0	0	0									
454+75.00	87	87	87	10	10	14	73	0	0	0	0	0	0									
455+00.00	154	154	154	13	13	17	138	0	0	0	0	0	0									
455+25.00	247	247	247	13	13	17	230	0	0	0	0	0	0									
455+50.00	182	182	182	1	1	1	180	0	0	0	0	0	0									
455+75.00	81	81	81	18	18	23	59	0	0	0	0	0	0									
456+00.00	70	70	70	23	23	29	41	0	0	0	0	0	0									
456+25.00	87	87	87	6	6	8	80	0	0	0	0	0	0									
456+50.00	60	60	60	6	6	8	52	0	0	0	0	0	0									
456+75.00	23	23	23	9	9	12	11	0	0	0	0	0	0									
457+00.00	26	26	26	6	6	8	18	0	0	0	0	0	0									
457+25.00	25	25	25	7	7	10	16	0	0	0	0	0	0									
457+50.00	24	24	24	9	9	11	13	0	0	0	0	0	0									
457+75.00	27	27	27	4	4	6	21	0	0	0	0	0	0									
458+00.00	33	33	33	0	0	0	33	0	0	0	0	0	0									
458+25.00	29	29	29	3	3	4	25	0	0	0	0	0	0									
458+50.00	21	21	21	8	8	10	11	0	0	0	0	0	0									
458+75.00	20	20	20	10	10	13	7	0	0	0	0	0	0									
459+00.00	22	22	22	13	13	16	6	0	0	0	0	0	0									
459+25.00	22	22	22	14	14	18	4	0	0	0	0	0	0									
459+50.00	18	18	18	14	14	18	0	0	0	0	0	0	0									
459+75.00	17	17	17	14	14	18	-1	0	0	0	0	0	0									
460+00.00	18	18	18	13	13	17	1	0	0	0	0	0	0									
460+25.00	22	22	22	6	6	8	15	0	0	0	0	0	0									
460+50.00	23	23	23	3	3	4	20	0	0	0	0	0	0									
460+75.00	19	19	19	5	5	7	12	0	0	0	0	0	0									
461+00.00	17	17	17	5	5	6	10	0	0	0	0	0	0									
461+25.00	15	15	15	5	5	6	9	0	0	0	0	0	0									
461+50.00	14	14	14	3	3	4	10	0	0	0	0	0	0									
461+75.00	13	13	13	1	1	1	12	0	0	0	0	0	0									
462+00.00	12	12	12	1	1	1	10	0	0	0	0	0	0									
462+25.00	10	10	10	1	1	1	10	0	0	0	0	0	0									
462+50.00	9	9	9	1	1	1	8	0	0	0	0	0	0									
462+75.00																						
Boyson Totals:	2,489	2,489	2,489	395	395	515	1,976	0	0	0	0	0	0									

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	05/13/26	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663

Sheet T.7

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EARTHWORK QUANTITIES

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet T.7

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
8-21-15

Station	Cut			Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink									
Summary:																						
Alburnett	7,325	7,325	7,325	32,293	32,293	41,984	-34,660	0	0	0	0	0	0									
Marion	3,563	3,563	3,563	158	158	207	3,358	0	0	0	0	0	0									
8thAve	2,144	2,144	2,144	17	17	23	2,123	0	0	0	0	0	0									
9th	247	247	247	1	1	2	246	0	0	0	0	0	0									
2nd	449	449	449	1	1	2	448	0	0	0	0	0	0									
Boyson	2,489	2,489	2,489	395	395	515	1,976	0	0	0	0	0	0									
Project Totals:	16,217	16,217	16,217	32,865	32,865	42,733	-26,509	0	0	0	0	0	0									

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	05/13/26	
FINAL PLANS		
REVISION		

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet T.8

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

EARTHWORK QUANTITIES

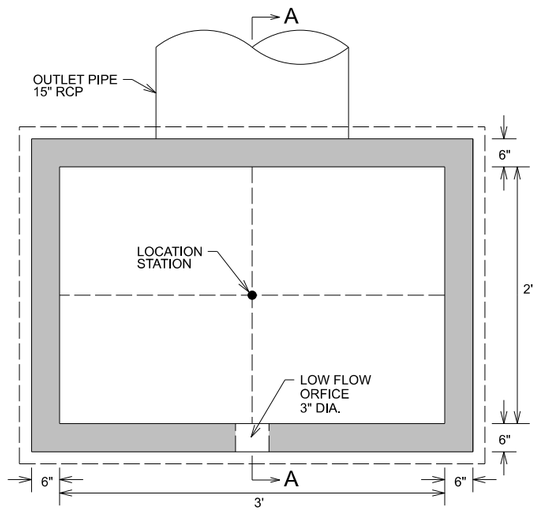
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

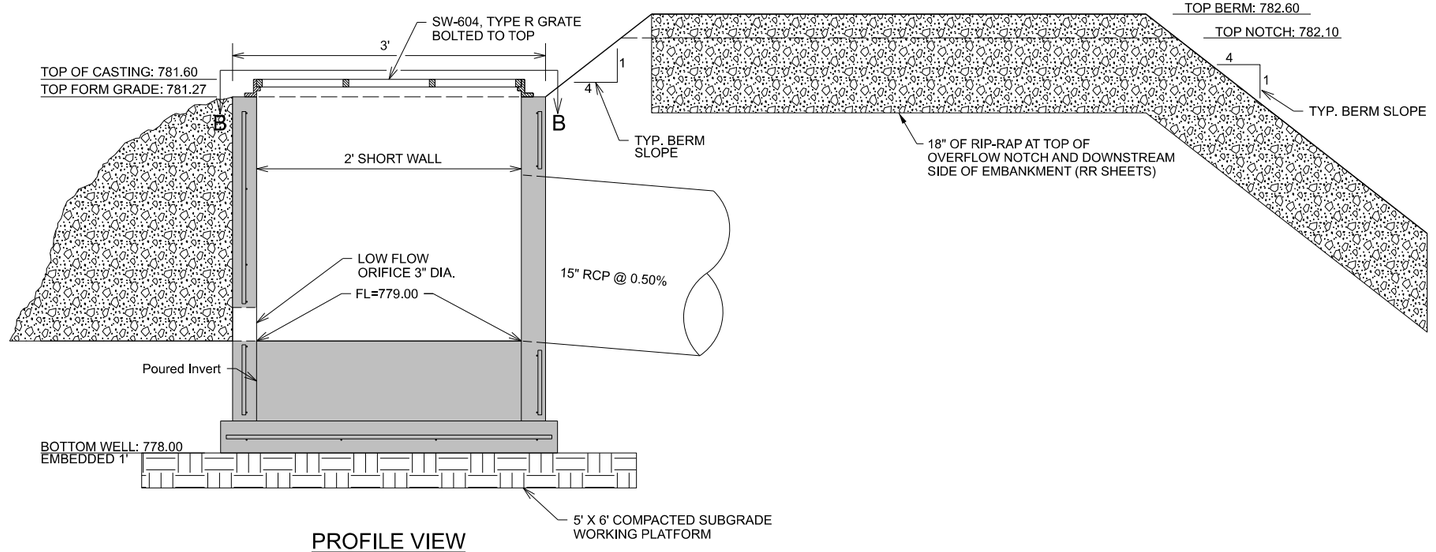
Project No: 116.0663

Sheet T.8

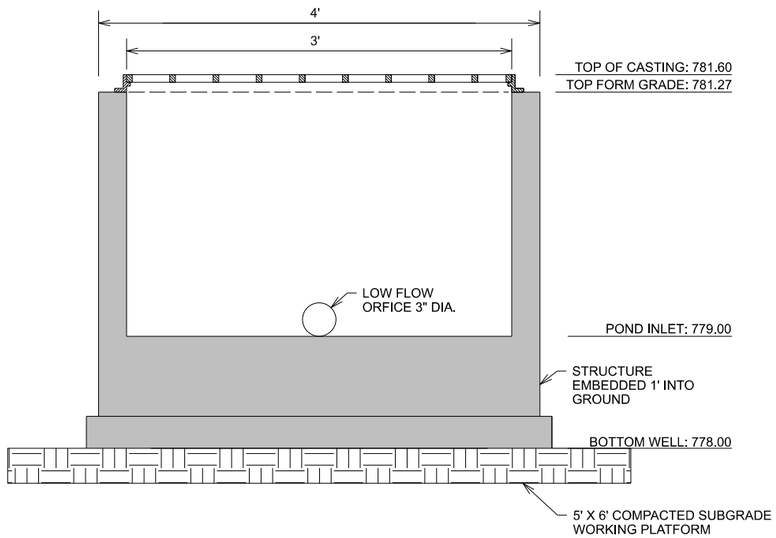
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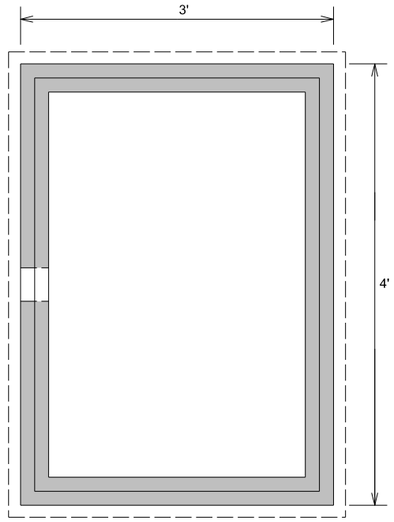
PLAN VIEW



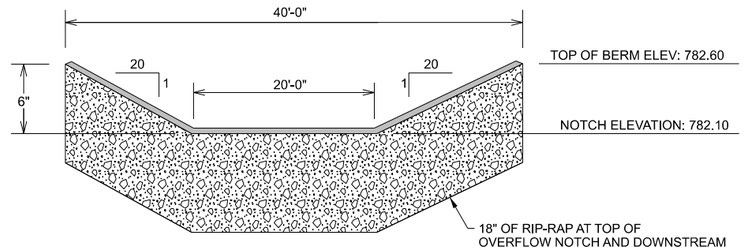
PROFILE VIEW
SECTION A-A



FRONT FACE



SECTION B-B



OVERFLOW NOTCH

1
U.1
SW-511, MODIFIED - BIORETENTION BASIN OUTLET STRUCTURE
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet U.1

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SPECIAL DETAILS

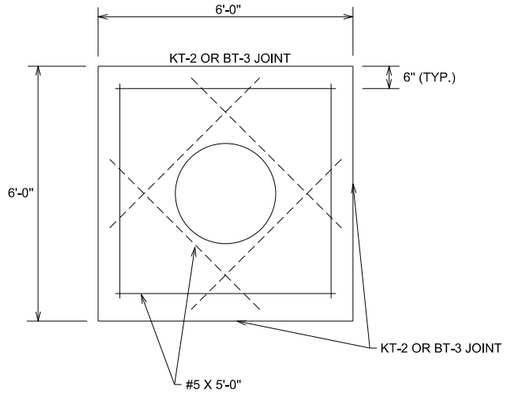
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet U.1

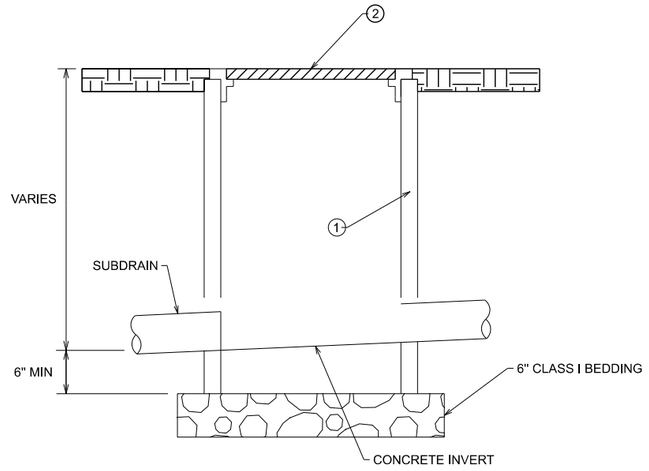
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NOTES

1. THICKNESS OF BOXOUT SHALL BE 10" MINIMUM
2. JOINT BETWEEN BOXOUT AND MAINLINE SHALL BE KT-2 OR BT-3
3. SECURE TIE REINFORCEMENT BARS TO PREVENT DOWELS
4. #5 EPOXY COATED BAR 5' LONG IN DIAMOND AND SQUARE PATTERN, TO FIT BOXOUT SIZE
5. BOXOUTS SHALL BE 6' BY 6' OR AS APPROVED BY THE ENGINEER, UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
6. OTHER MANHOLE BOXOUT SHAPES PER PV-103 ARE ALLOWED. DO NOT USE 'E' JOINTS FOR MANHOLE BOXOUTS

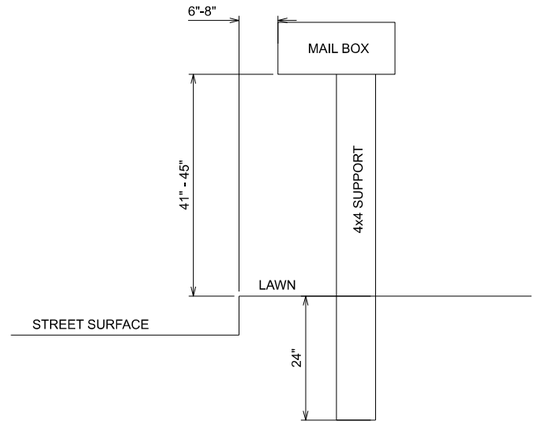
1 U.2 TYPICAL MANHOLE BOXOUT
NO SCALE



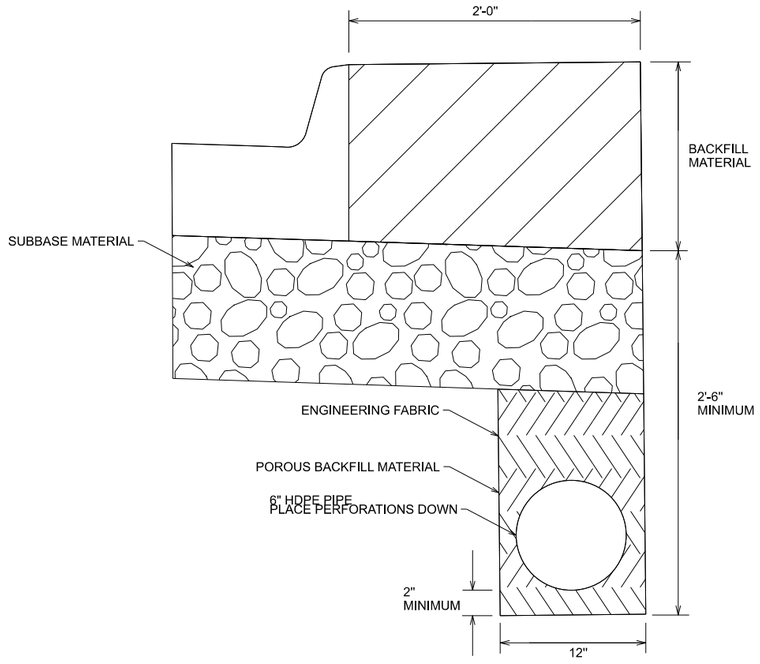
NOTES

1. A MANUFACTURED CLEANOUT MAY BE USED IN LIEU OF A TYPE B CLEANOUT, IF APPROVED BY THE ENGINEER
2. PROVIDE TYPE G CASTING, AS REQUIRED TO FIT PIPE SIZE

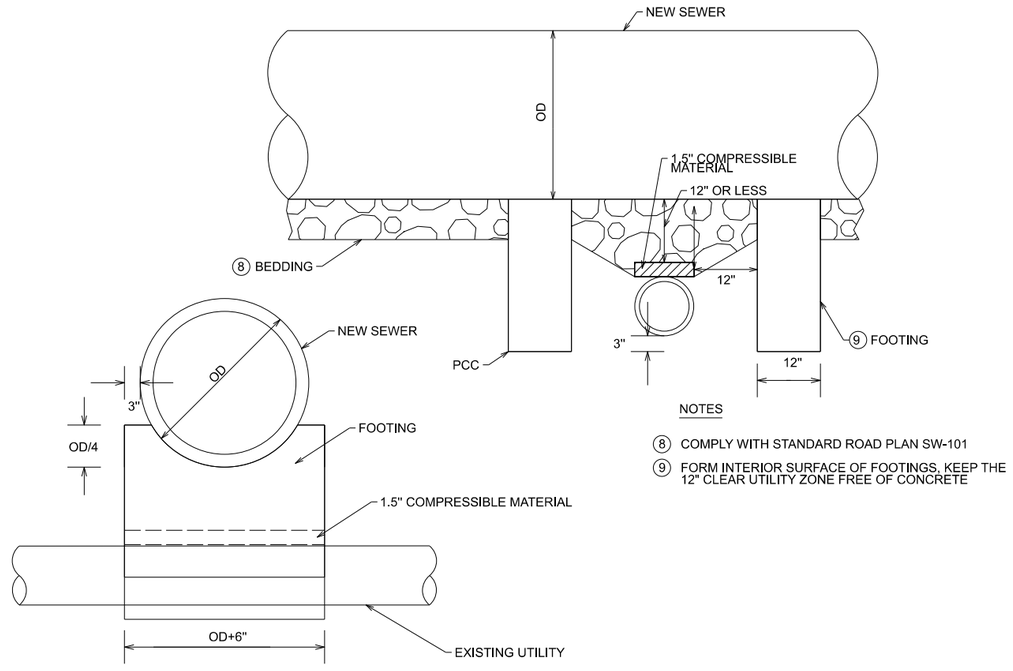
2 U.2 TYPE B CLEANOUT
NO SCALE



3 U.2 MAILBOX INSTALLATION
NO SCALE



4 U.2 SUBDRAIN, CASE B
NO SCALE



NOTES

8. COMPLY WITH STANDARD ROAD PLAN SW-101
9. FORM INTERIOR SURFACE OF FOOTINGS, KEEP THE 12" CLEAR UTILITY ZONE FREE OF CONCRETE

5 U.2 SEWER PIPE SUPPORT OVER EXISTING UTILITY
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet U.2

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SPECIAL DETAILS

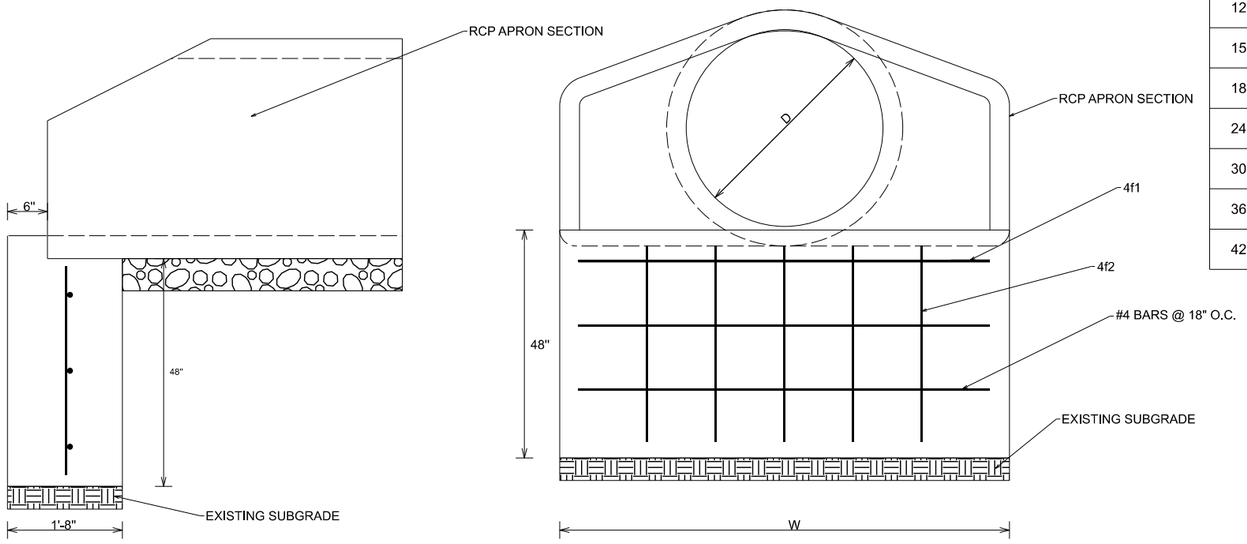
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet U.2

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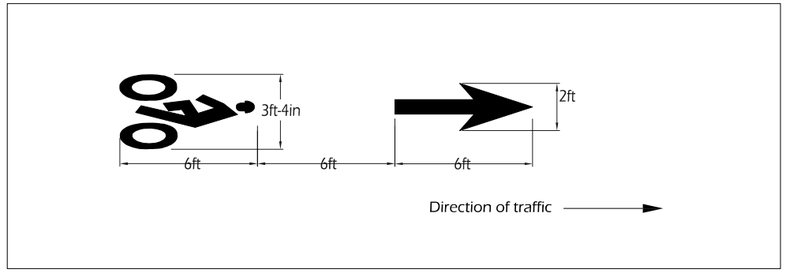
ELEVATION

REINFORCING BAR LIST

D	W	Mark	Size	Length	Count
12"	2'-4"	4f1	4	2'-0"	3
		4f2	4	3'-8"	2
15"	2'-10 ½"	4f1	4	2'-6 ½"	3
		4f2	4	3'-8"	2
18"	3'-5"	4f1	4	3'-1"	3
		4f2	4	3'-8"	3
24"	4'-6"	4f1	4	4'-2"	3
		4f2	4	3'-8"	3
30"	5'-7"	4f1	4	5'-3"	3
		4f2	4	3'-8"	4
36"	6'-8"	4f1	4	6'-4"	3
		4f2	4	3'-8"	5
42"	7'-3"	4f1	4	6'-11"	3
		4f2	4	3'-8"	5

D	W	Mark	Size	Length	Count
48"	7'-10"	4f1	4	7'-6"	3
		4f2	4	3'-8"	6
54"	8'-5"	4f1	4	8'-1"	3
		4f2	4	3'-8"	6
60"	8'-11"	4f1	4	8'-7"	3
		4f2	4	3'-8"	6
66"	8'-11"	4f1	4	8'-7"	3
		4f2	4	3'-8"	6
72"	10'-0"	4f1	4	9'-8"	3
		4f2	4	3'-8"	7
78"	10'-7"	4f1	4	10'-3"	3
		4f2	4	3'-8"	7
84"	11'-1"	4f1	4	10'-9"	3
		4f2	4	3'-8"	8

1 U.3 RCP APRON SECTION FOOTING
NO SCALE



2 U.3 COMBINED BIKE LANE SYMBOLS - CENTER IN LANE
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/12/2026

Project No: 116.0663

Sheet U.3

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

SPECIAL DETAILS

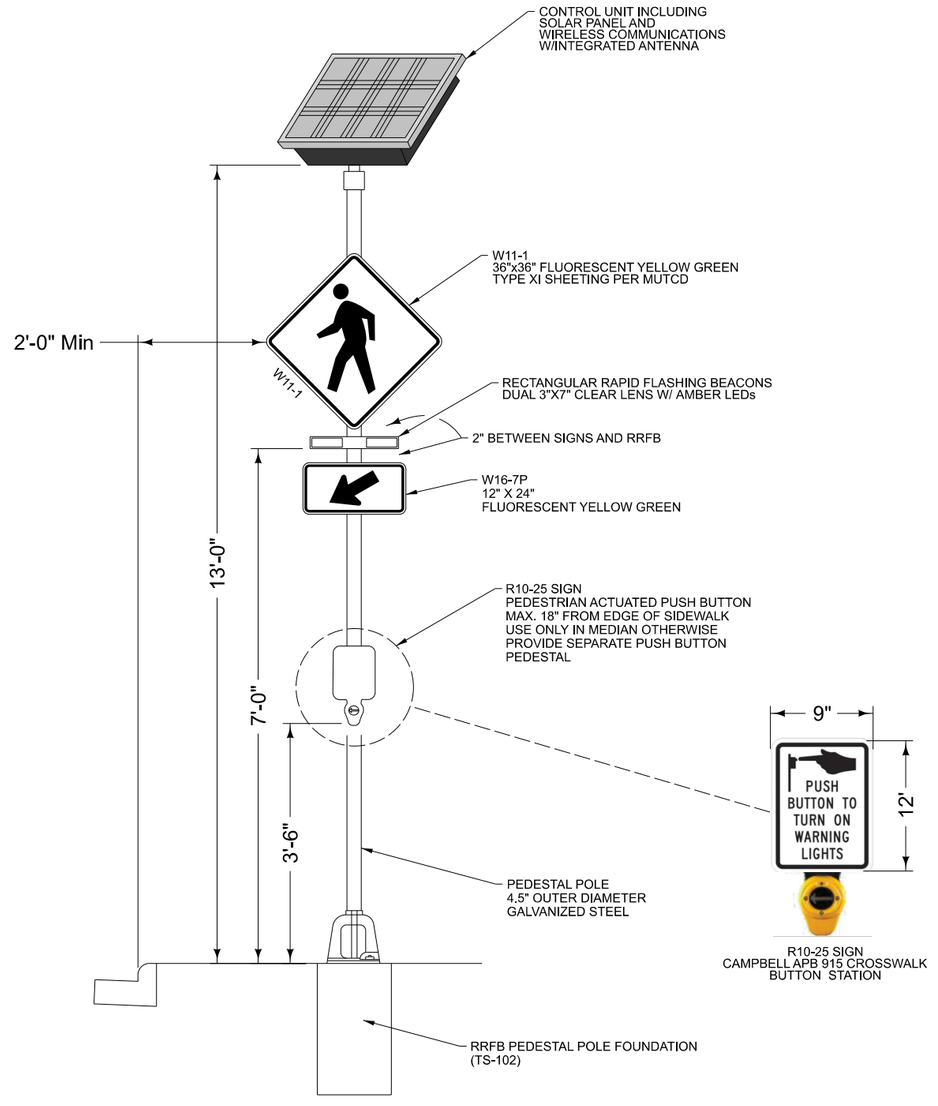
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

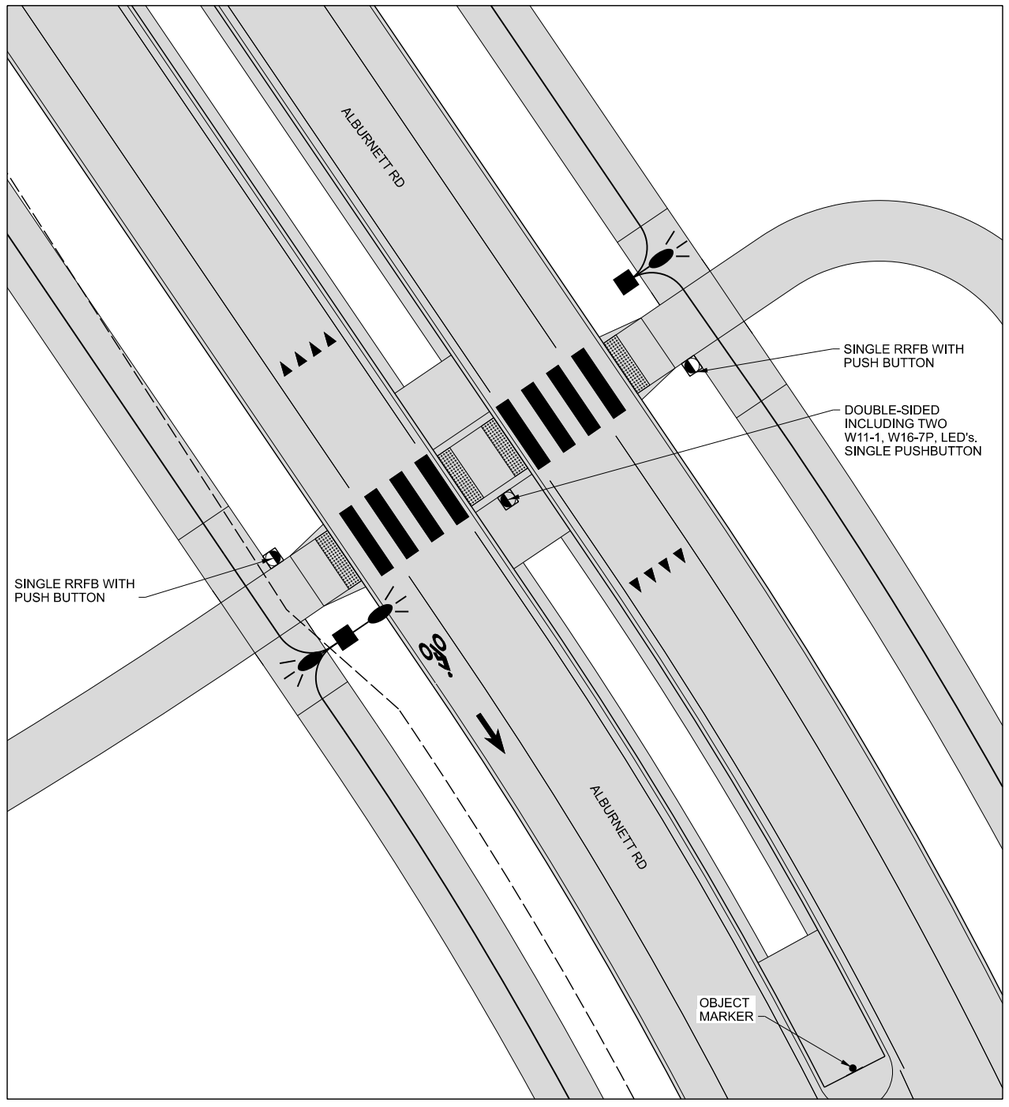
Project No: 116.0663

Sheet U.3

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1 U.4 RRFB DETAIL
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2 U.4 RRFB PLAN DETAIL
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk: Pg:
Technician: KMM Date: 5/12/2026

Project No: 116.0663 Sheet U.4

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

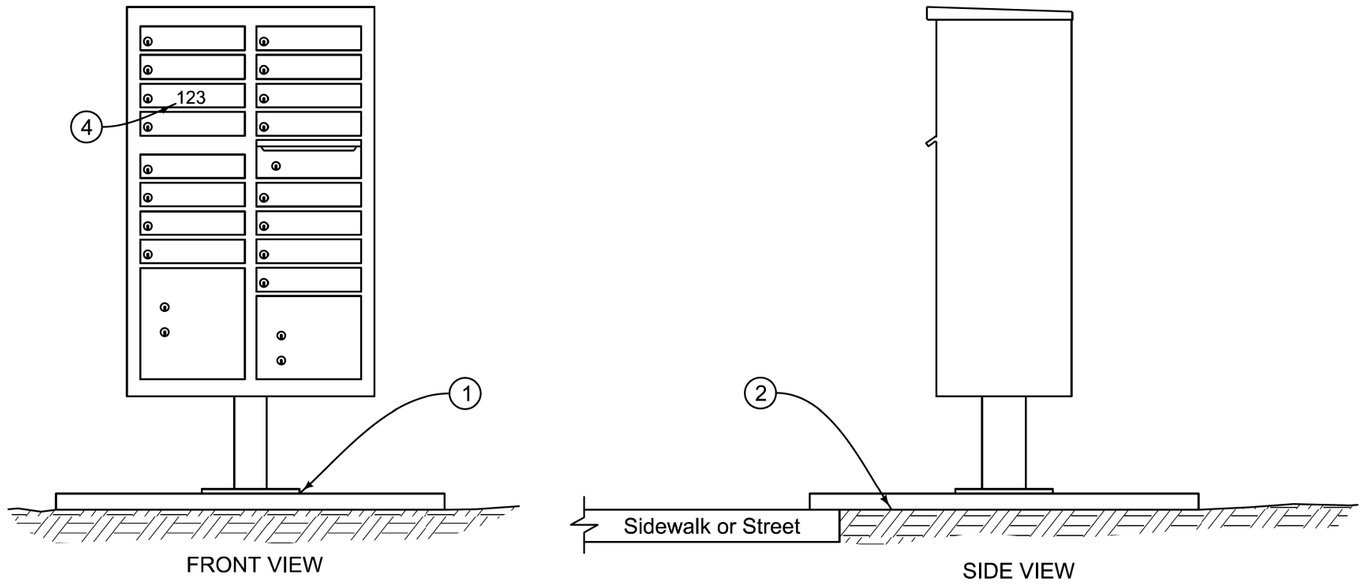
SPECIAL DETAILS

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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

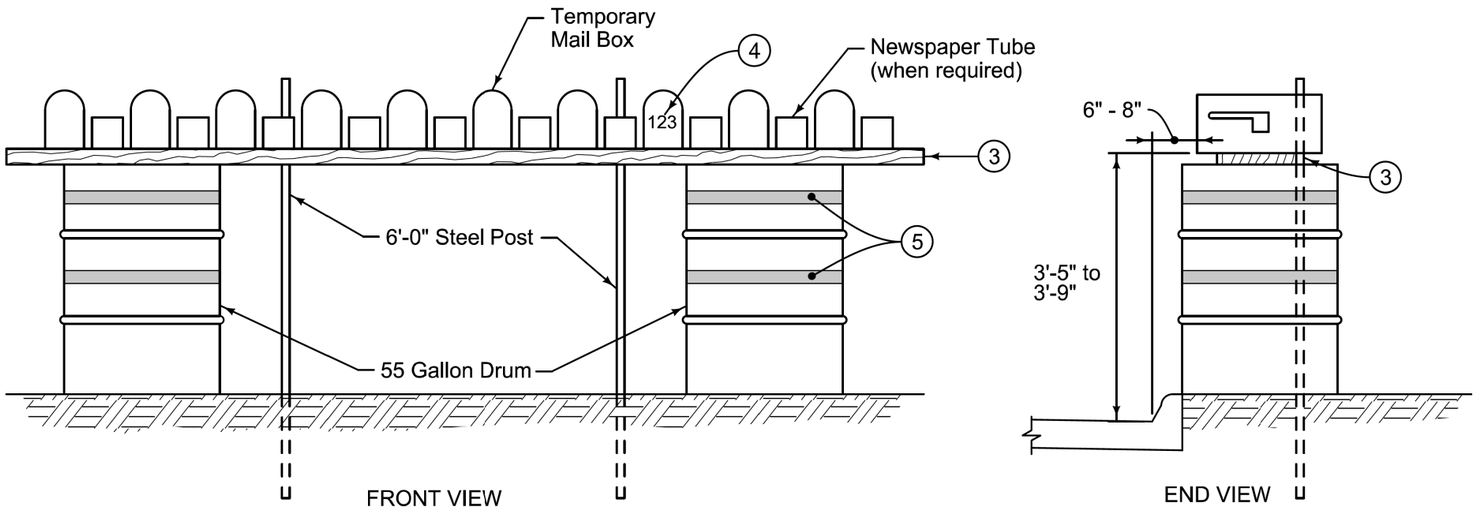
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Sheet U.4

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TEMPORARY CLUSTER BOX UNIT

1. Attach cluster box unit to a stable skid or anchor plate.
2. Set cluster box on firm and level ground adjacent to sidewalk or street paving. Provide anchorage as needed to prevent overturning.
3. Provide a 2 inch x 12 inch plank with length as required. Firmly attach mailboxes and newspaper tubes to plank. Secure plank to steel posts for lateral support.
4. Label each mailbox with property address.
5. Attach two bands of 2 inch wide reflectorized tape to each barrel.



TEMPORARY GROUP MAILBOX

1 U.58 TEMPORARY MAILBOXES
NO SCALE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/12/2026
Project No: 116.0663 | Sheet U.5

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

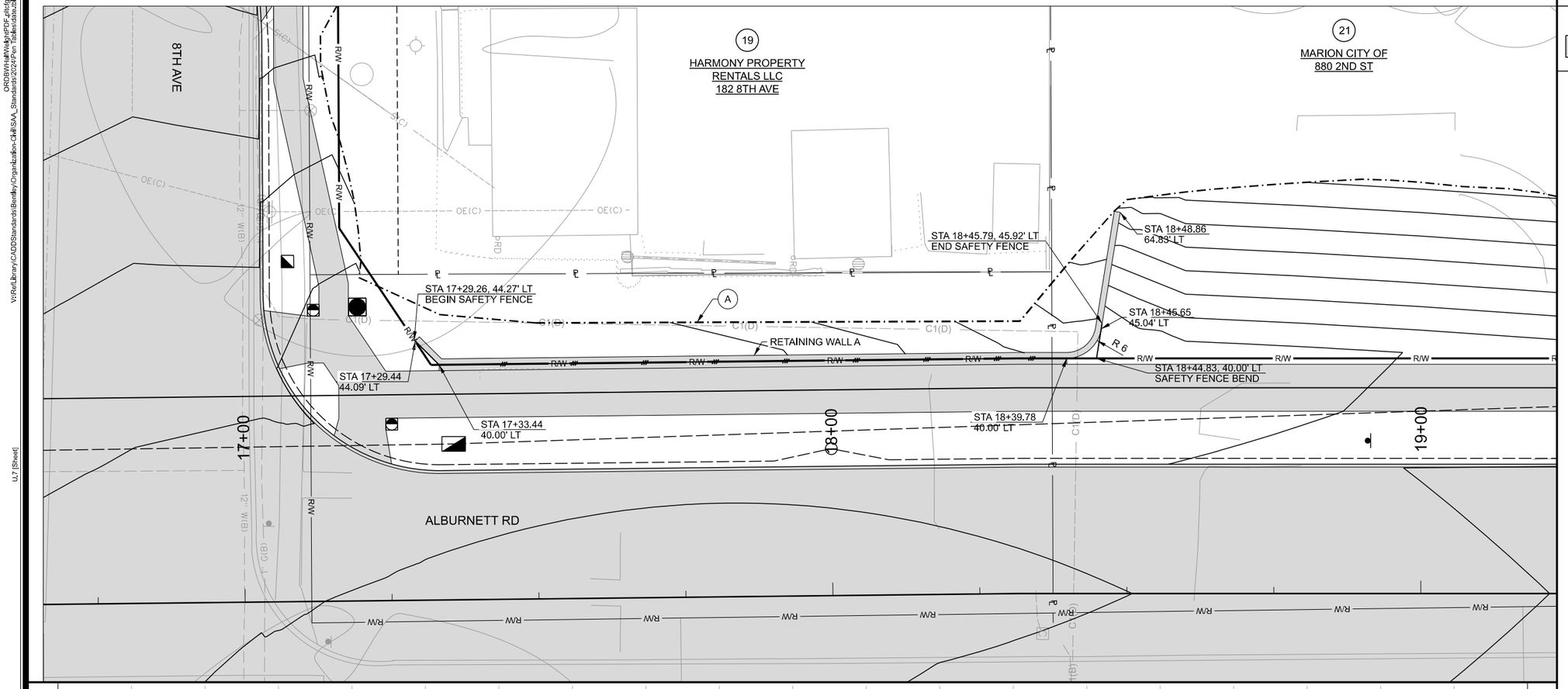
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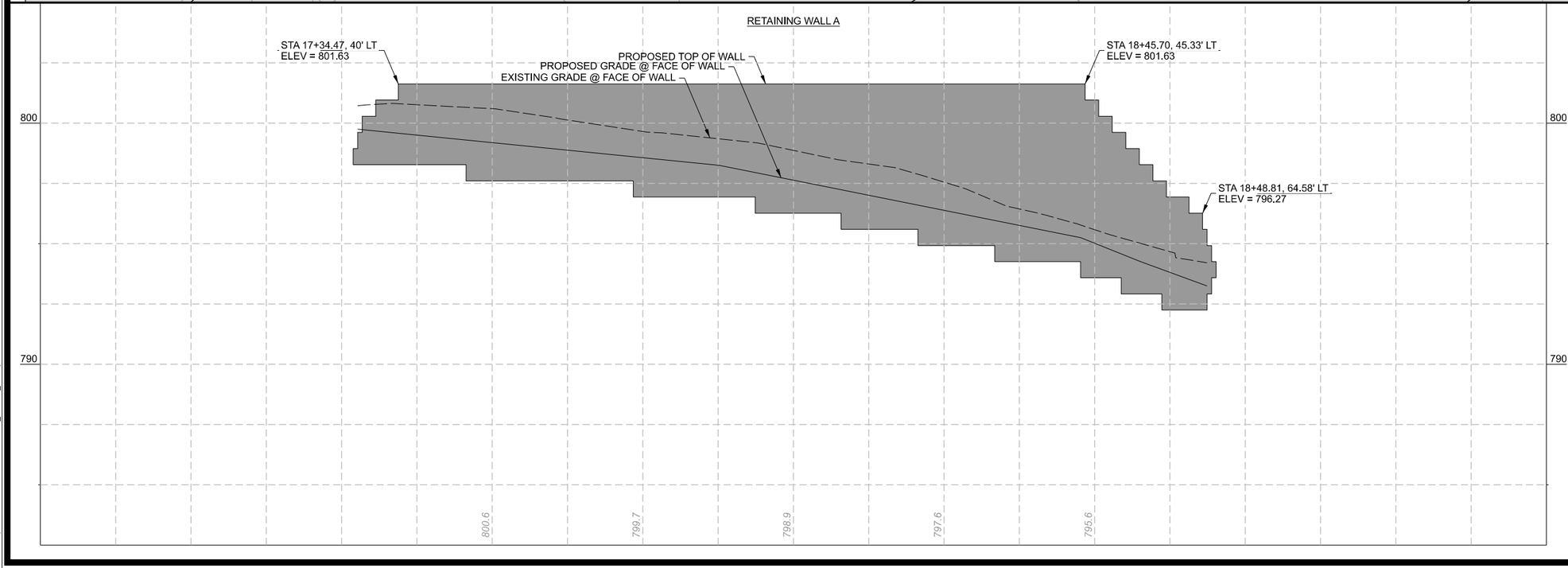
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Project No: 116.0663
Sheet U.5

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

(A) CONSTRUCTION LIMITS

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:
Technician: KMM Date: 5/12/2026
Project No: 116.0663 Sheet U.6

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

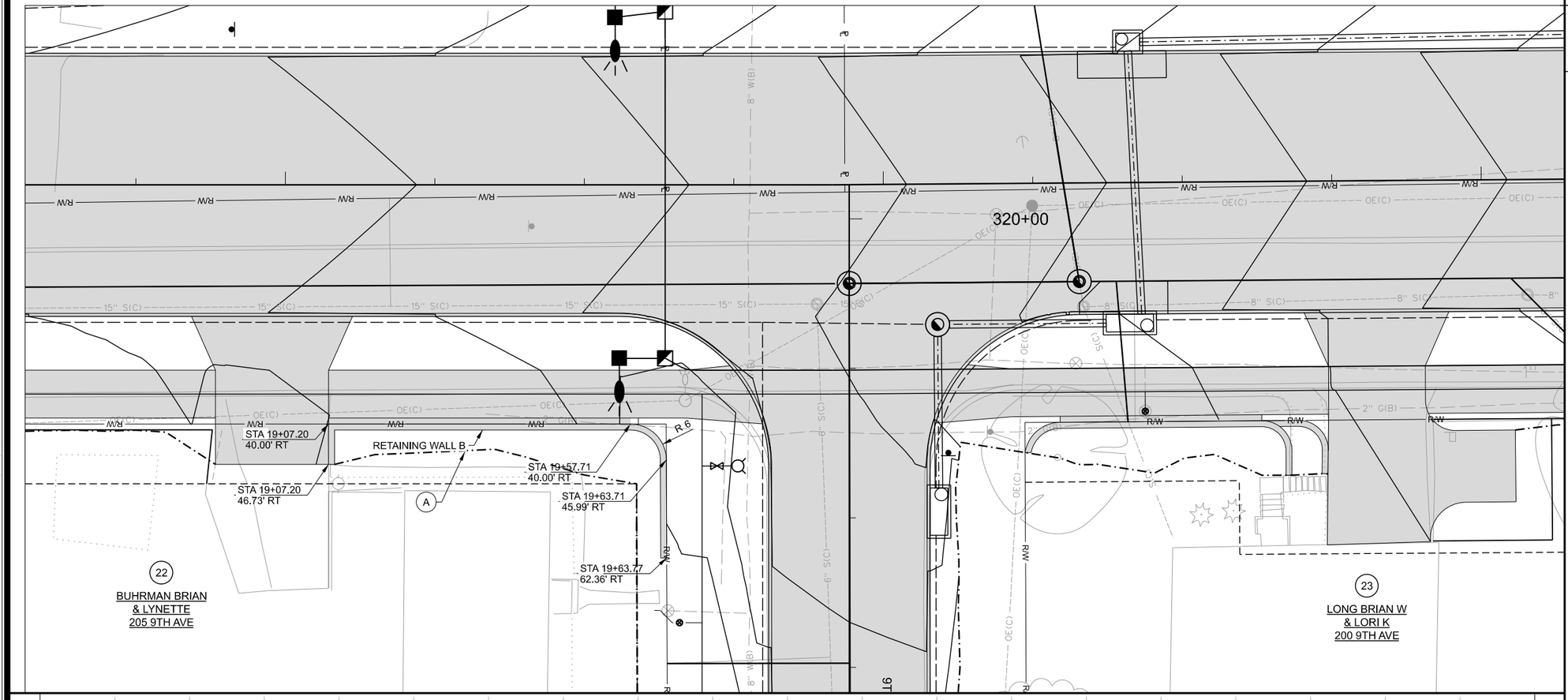
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SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

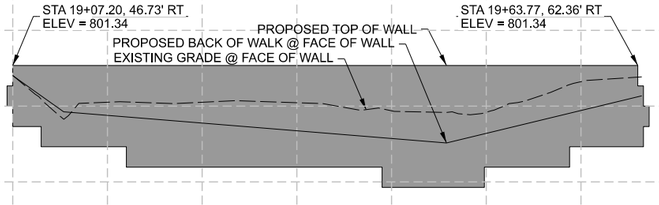
SNYDER & ASSOCIATES

Project No: 116.0663
Sheet U.6

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

(A) CONSTRUCTION LIMITS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
	5/13/2026	
FINAL PLANS		
REVISION		

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/12/2026

Project No: 116.0663 | Sheet U.7

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RETAINING WALL PLAN AND PROFILE

CITY OF MARION, IOWA

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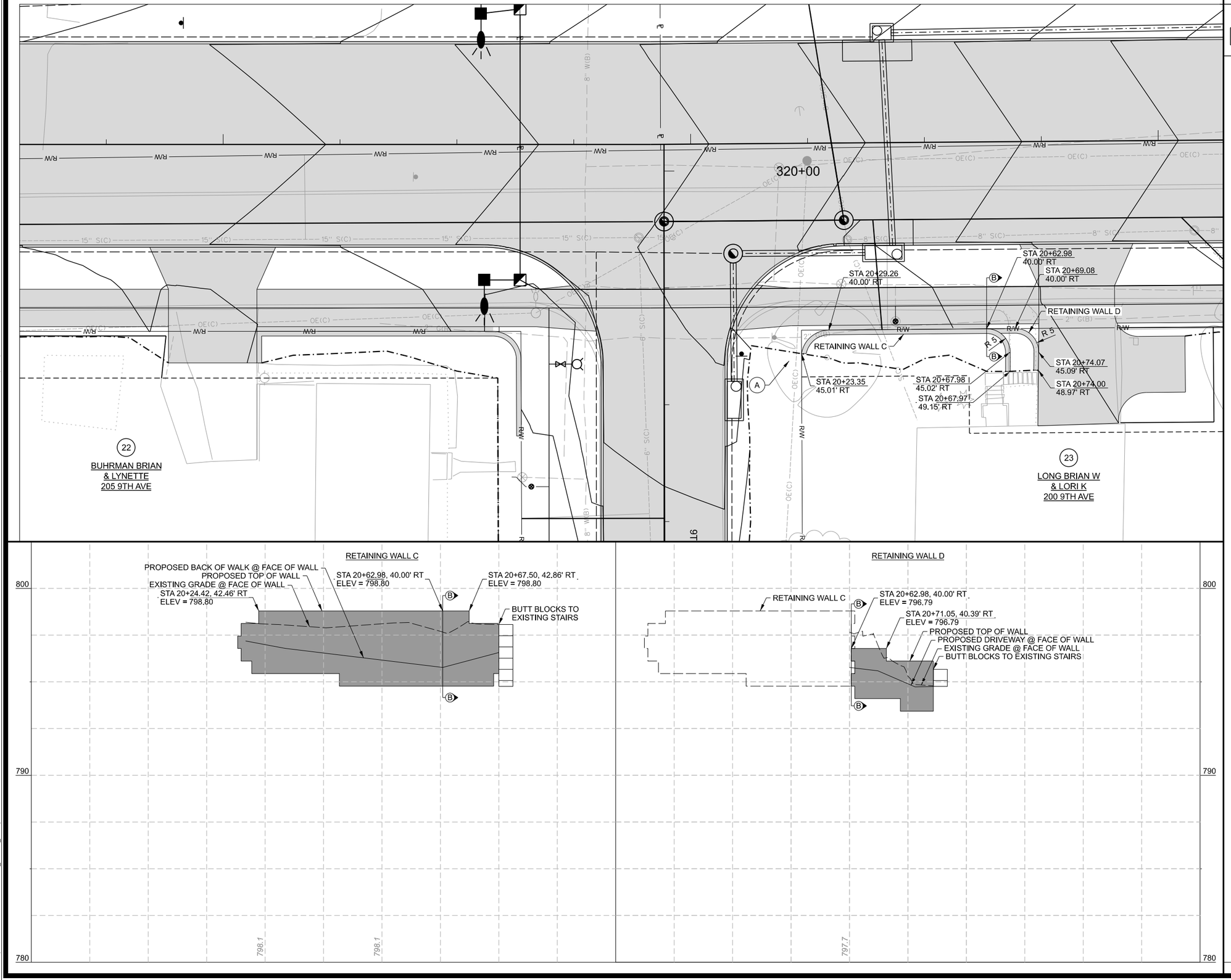
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet U.7

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

(A) CONSTRUCTION LIMITS

(B) WALL PROFILE MATCH LINE

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FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/12/2026

Project No: 116.0663 Sheet U.8

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RETAINING WALL PLAN AND PROFILE

CITY OF MARION, IOWA

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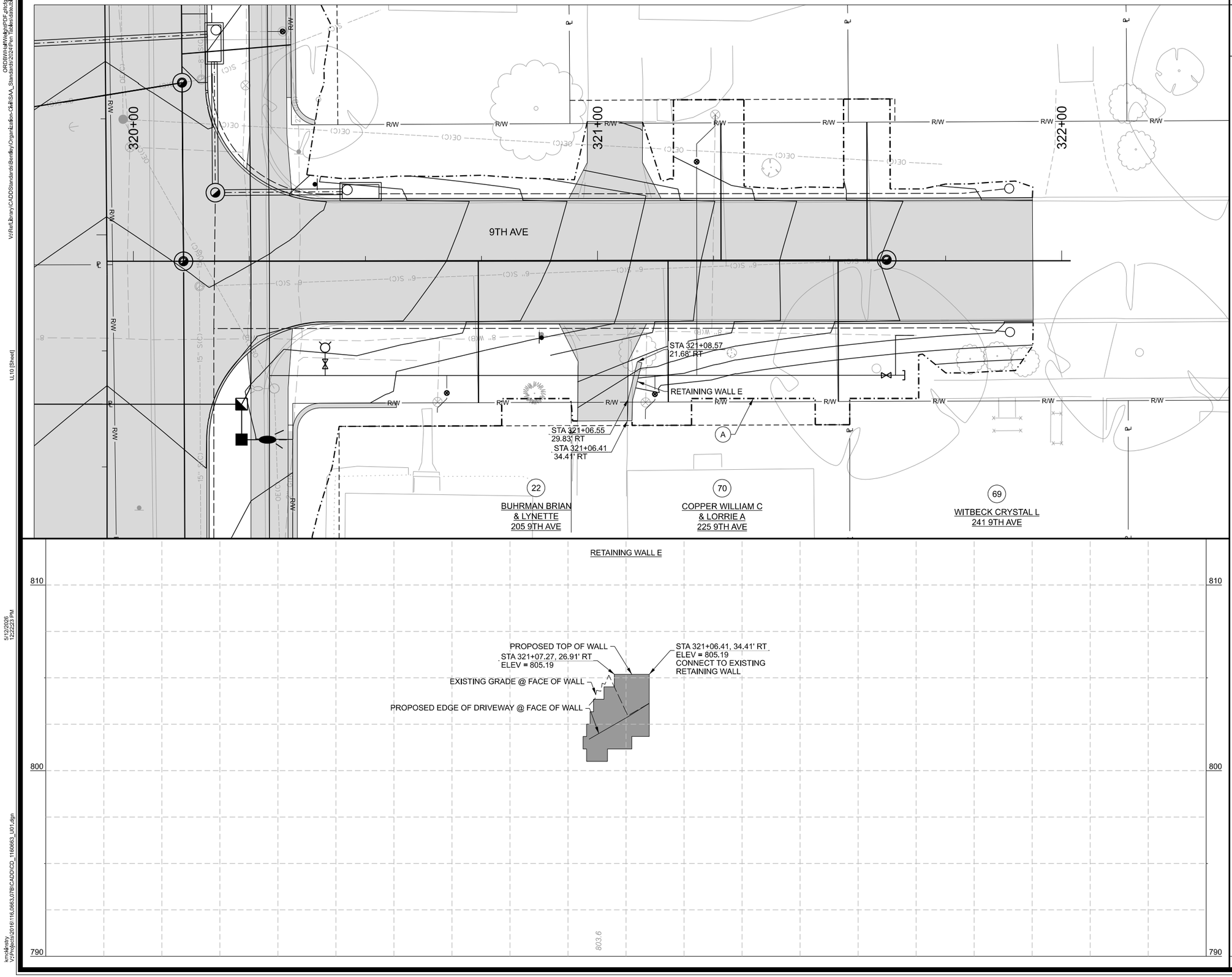
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Project No: 116.0663

Sheet U.8

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

(A) CONSTRUCTION LIMITS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/12/2026 | Sheet U.9
Project No: 116.0663

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

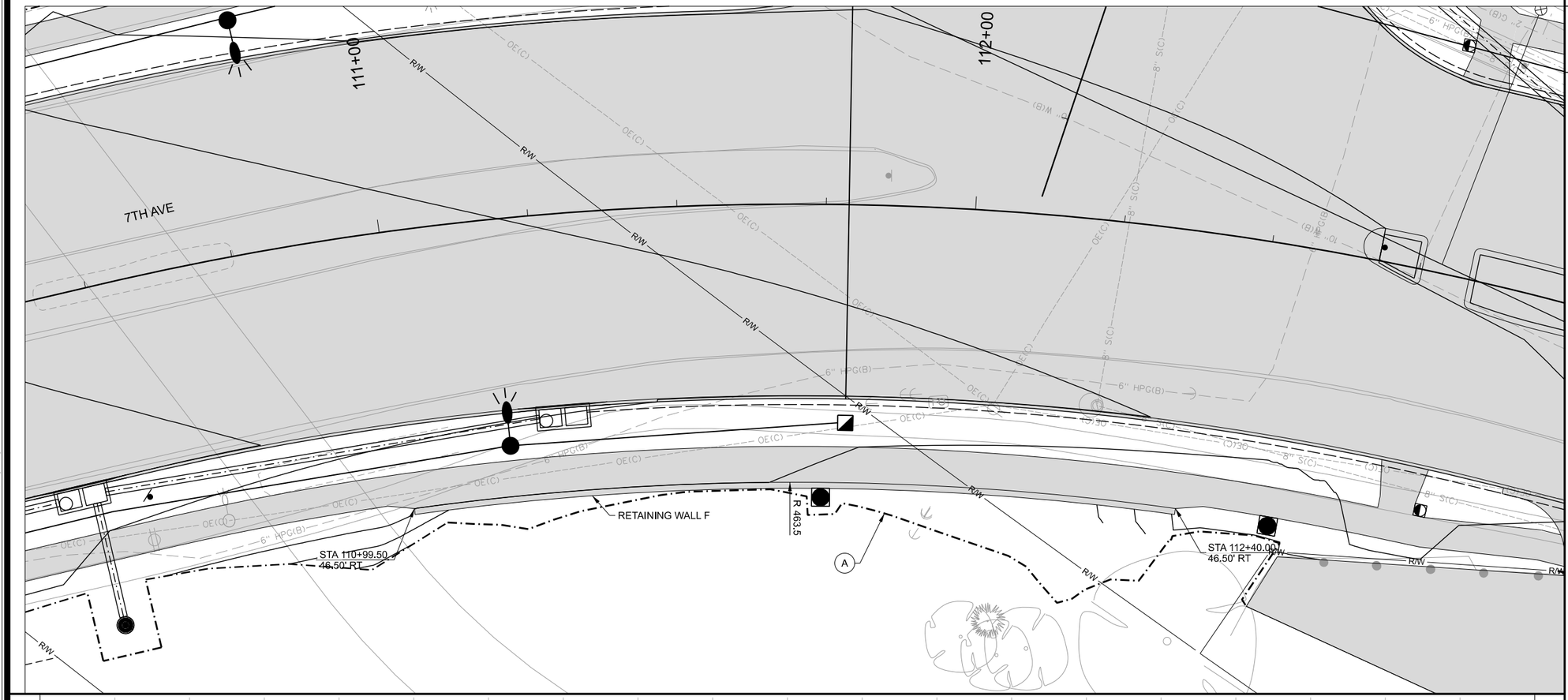
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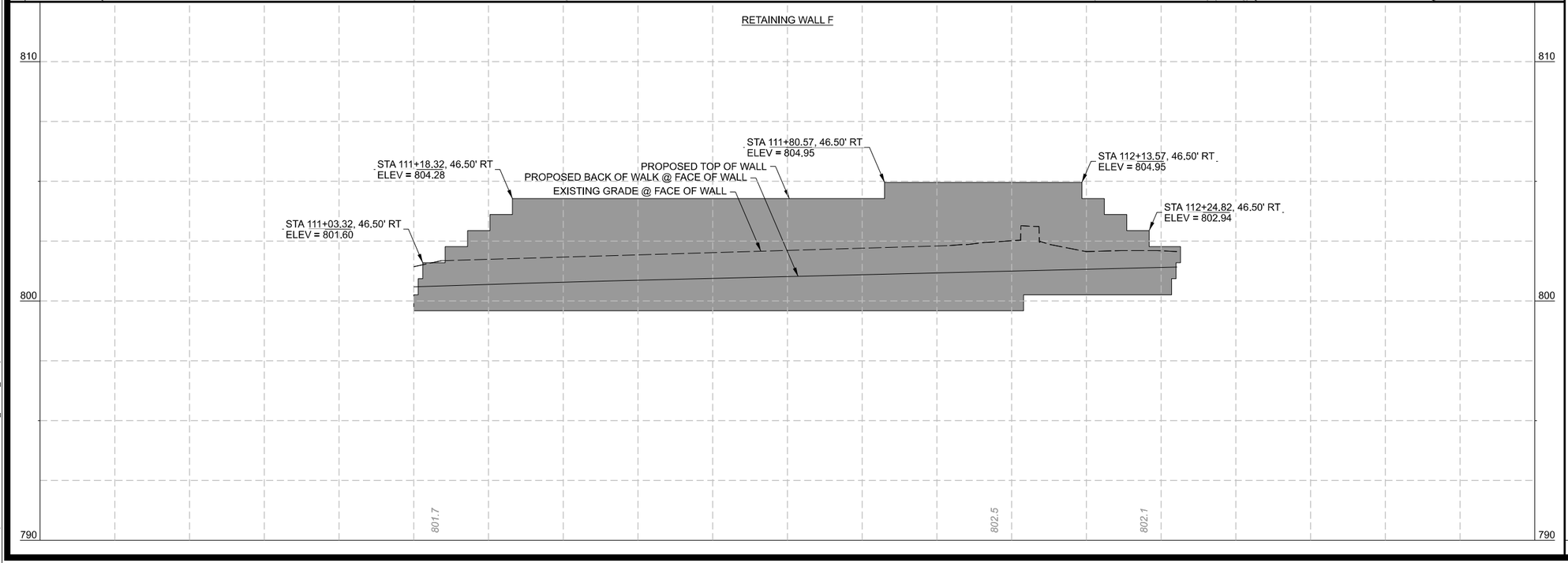
SNYDER & ASSOCIATES, INC.
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CEDAR RAPIDS, IA 52404
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Project No: 116.0663
Sheet U.9

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

(A) CONSTRUCTION LIMITS

0 10 20
FEET

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | T-R-S:
Technician: KMM | Date: 5/12/2026

Project No: 116.0663 | Sheet U.10

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CITY OF MARION, IOWA

RETAINING WALL PLAN AND PROFILE

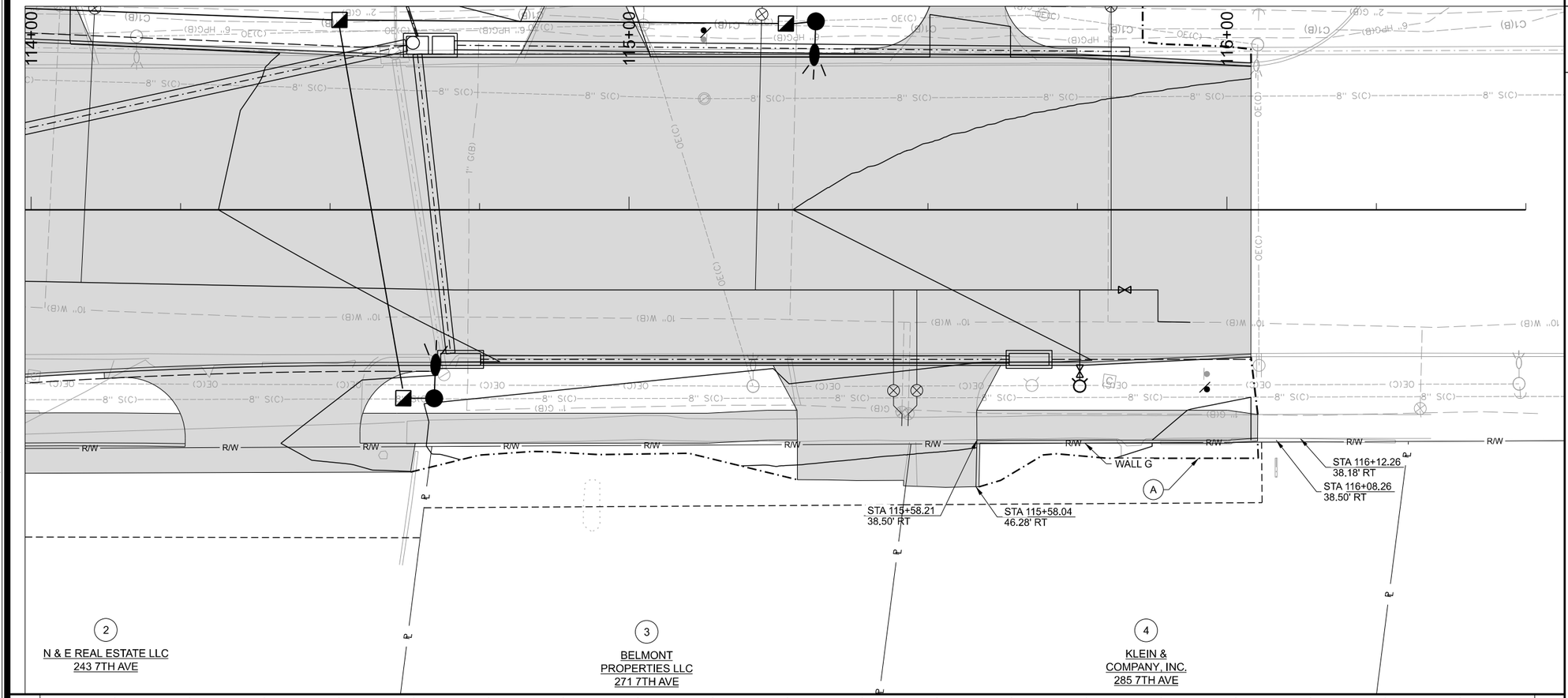
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
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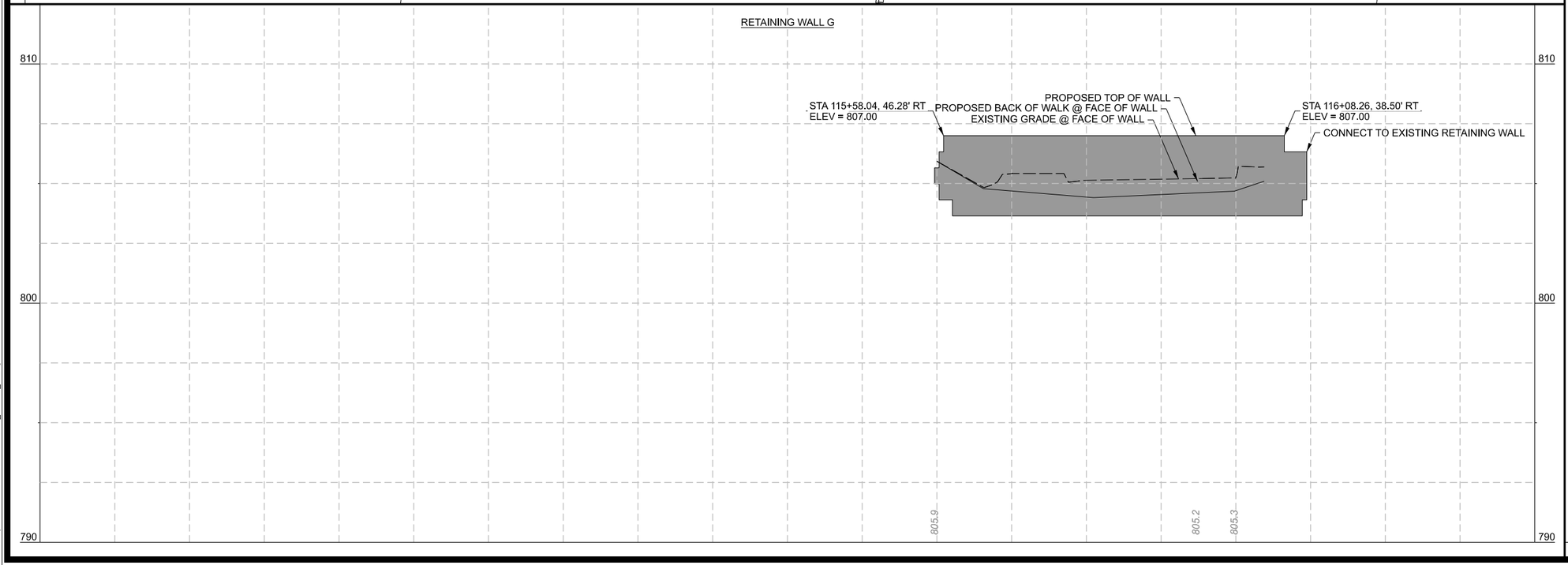
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Project No: 116.0663
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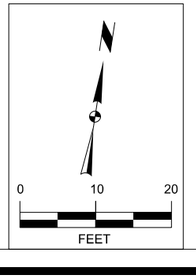


LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

(A) CONSTRUCTION LIMITS



DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/12/2026

Project No: 116.0663 Sheet U.11

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

RETAINING WALL PLAN AND PROFILE

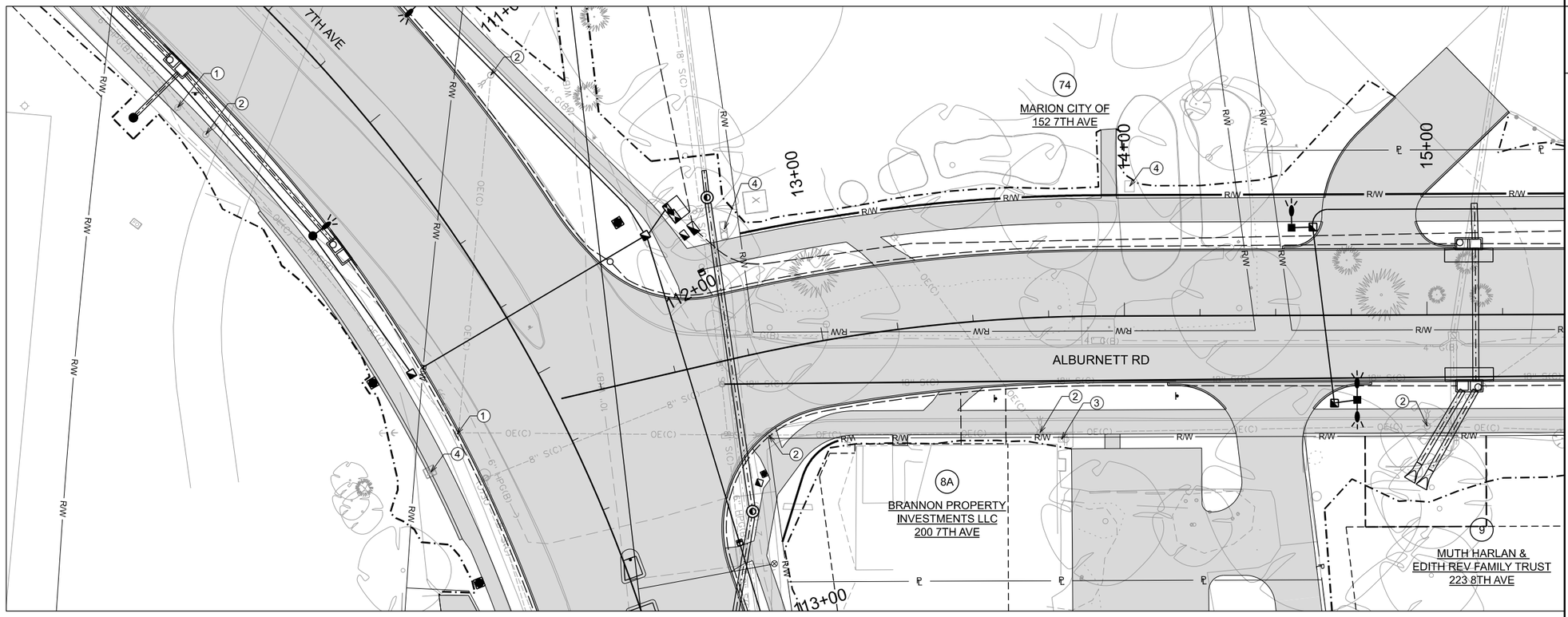
SNYDER & ASSOCIATES, INC.
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CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

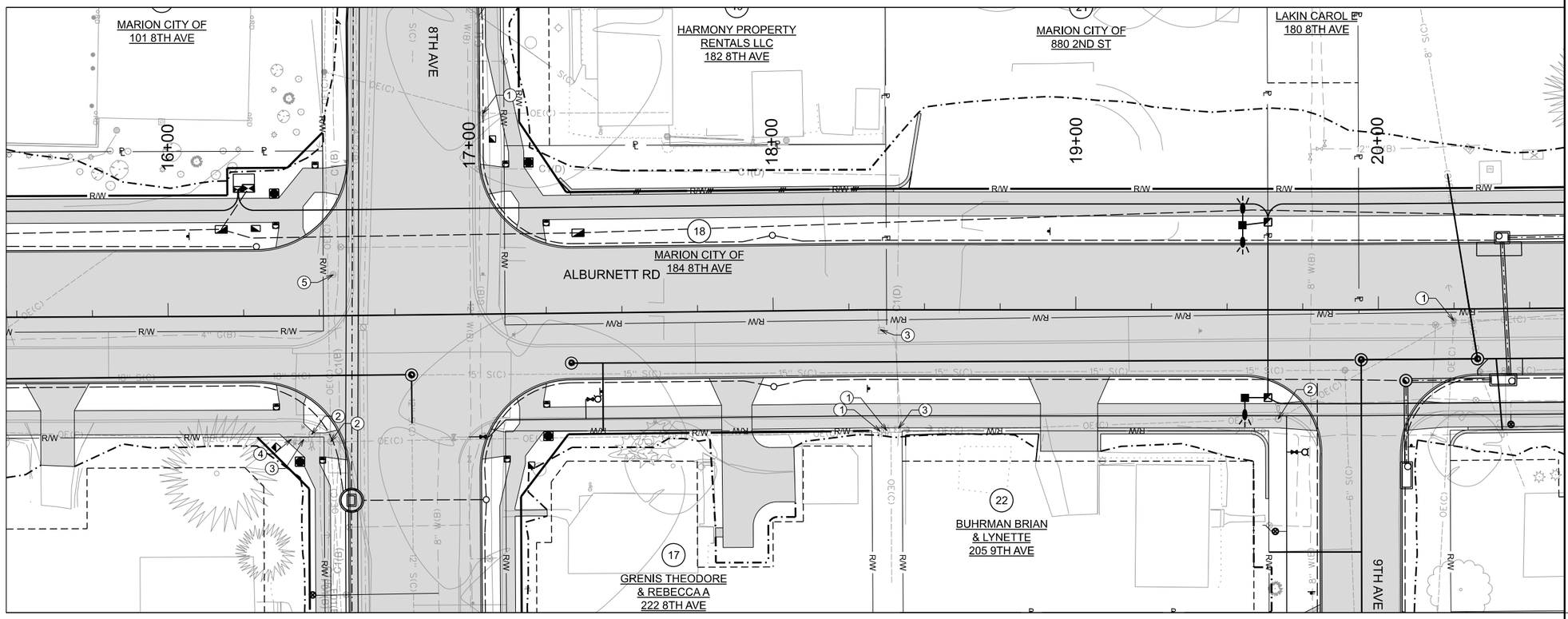
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Project No: 116.0663

Sheet U.11

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. RELOCATE POLE (BY OTHERS)
2. REMOVE LIGHT POLE (BY OTHERS)
3. RELOCATE PEDESTAL (BY OTHERS)
4. RELOCATE BOX (BY OTHERS)
5. ADJUST COMMUNICATION MANHOLE (BY OTHERS)

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet U.20

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

FRANCHISE UTILITY RELOCATION

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Project No: 116.0663

Sheet U.20

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. RELOCATE POLE (BY OTHERS)

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/12/2026

Project No: 116.0663

Sheet U.21

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

FRANCHISE UTILITY RELOCATION

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Project No: 116.0663

Sheet U.21

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. ADJUST HANDHOLE (BY OTHERS)
2. ADJUST PEDESTAL (BY OTHERS)
3. RELOCATE PEDESTAL (BY OTHERS)

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer:	MGB	Checked By:	DMS	Field Bk:	Pg:
Technician:	KMM	Date:	5/12/2026		

Project No: 116.0663

Sheet U.22

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

FRANCHISE UTILITY RELOCATION

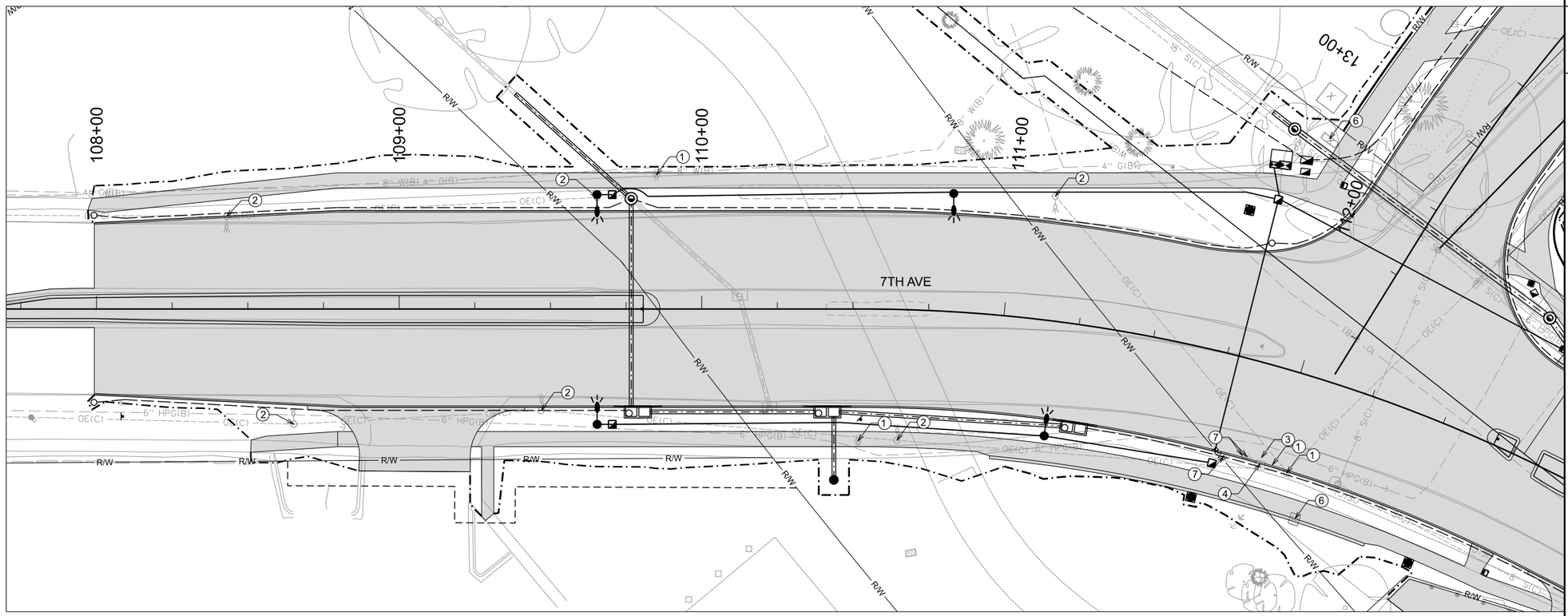
SNYDER & ASSOCIATES, INC.
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Project No: 116.0663

Sheet U.22

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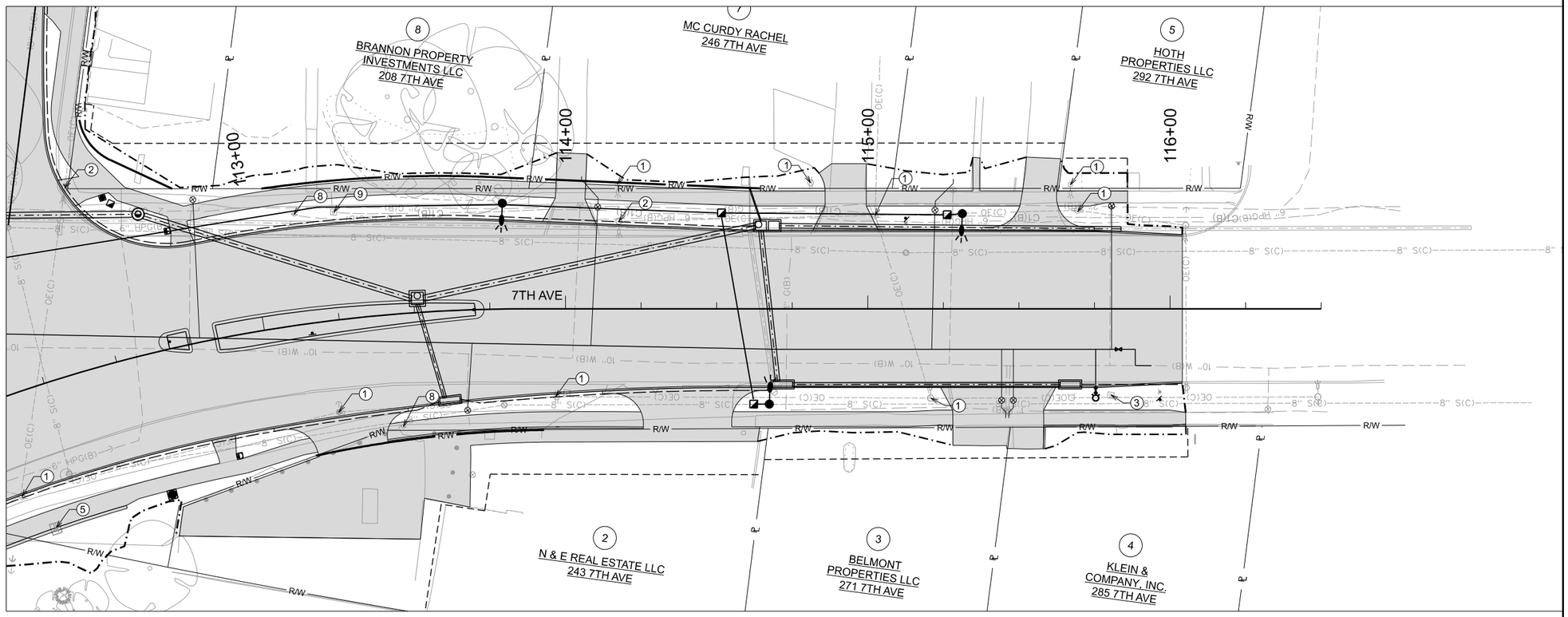
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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. RELOCATE POLE (BY OTHERS)
2. REMOVE LIGHT POLE (BY OTHERS)
3. RELOCATE PEDESTAL (BY OTHERS)
4. RELOCATE HANDHOLE (BY OTHERS)
5. RELOCATE BOX (BY OTHERS)
6. RELOCATE BOX (BY OTHERS)
7. RELOCATE GUY ANCHORS (BY OTHERS)
8. ADJUST GAS VALVE (BY OTHERS)
9. ADJUST PEDESTAL (BY OTHERS)

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MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS
Technician: KMM | Date: 5/12/2026 | Field Bk: | Pg:

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Project No: 116.0663

Sheet U.23

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

FRANCHISE UTILITY RELOCATION

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

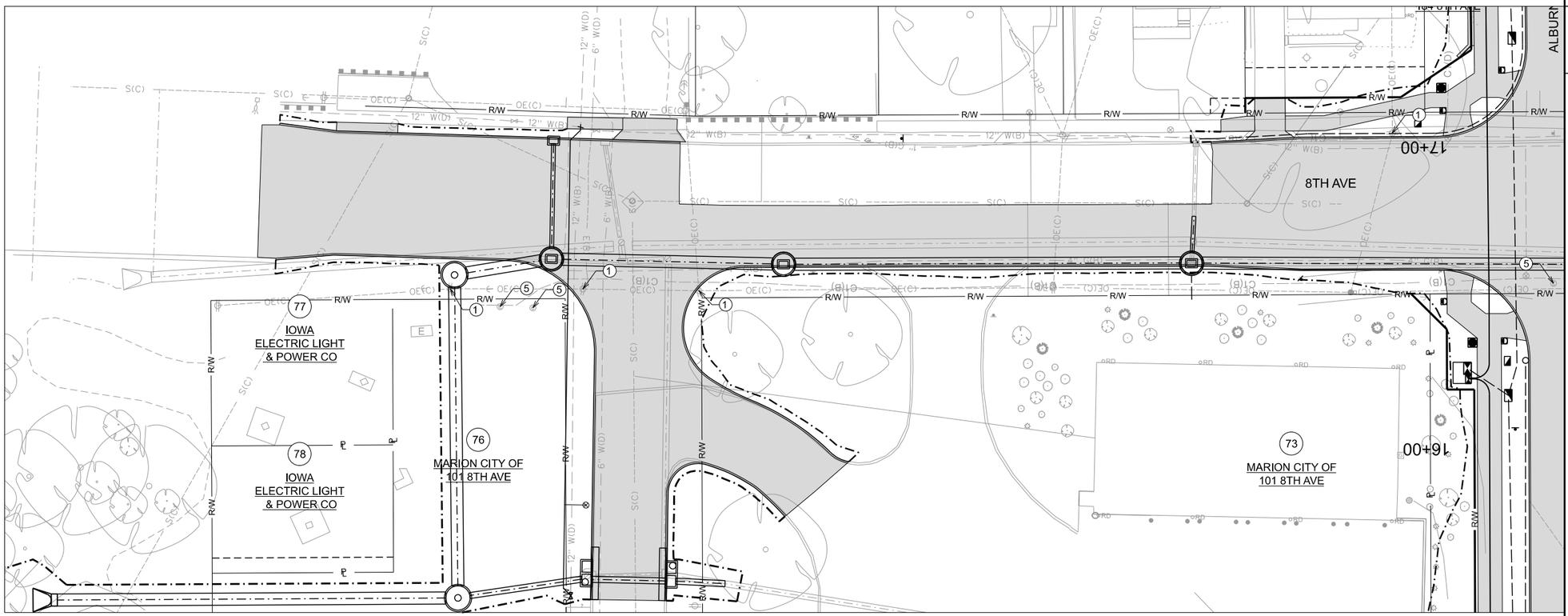
SNYDER & ASSOCIATES

Project No: 116.0663

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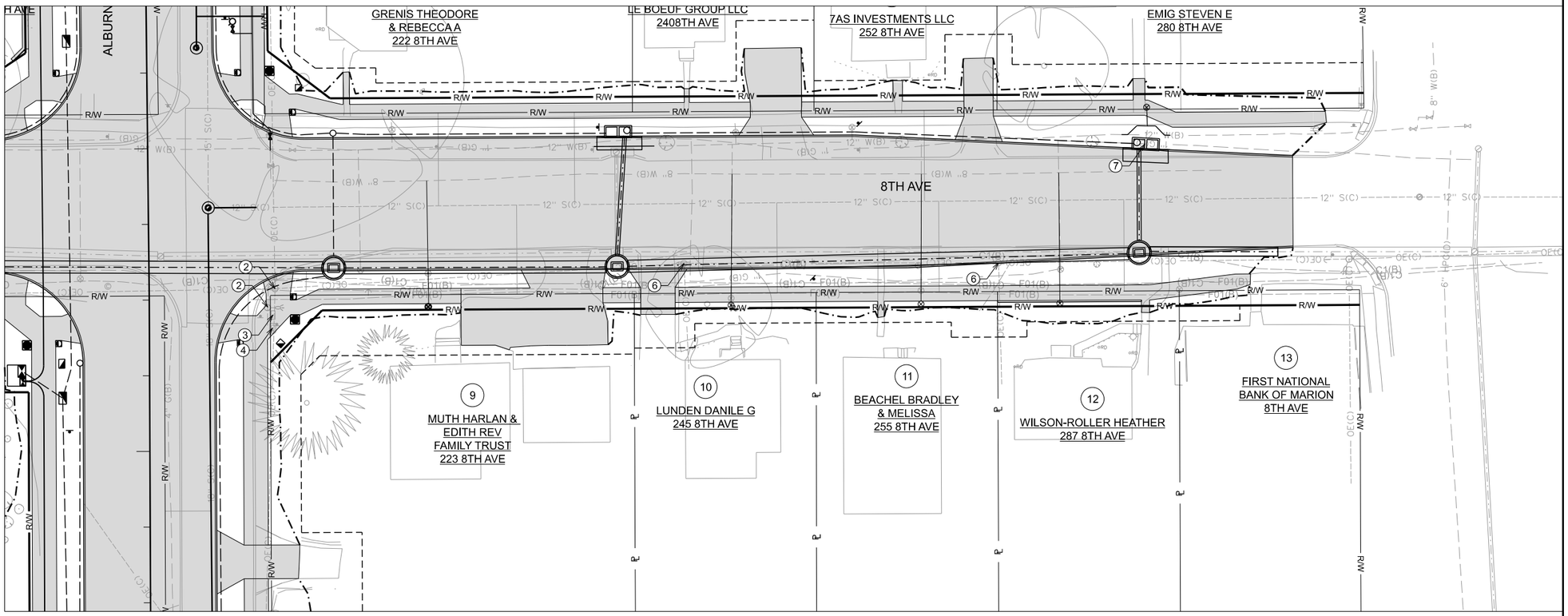
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PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. RELOCATE POLE (BY OTHERS)
2. REMOVE LIGHT POLE (BY OTHERS)
3. RELOCATE PEDESTAL (BY OTHERS)
4. RELOCATE HANDHOLE (BY OTHERS)
5. ADJUST MANHOLE (BY OTHERS)
6. REMOVE POLE (BY OTHERS)
7. RELOCATE GAS MAIN

0 20 40
FEET



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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/12/2026

Project No: 116.0663

Sheet U.24

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

FRANCHISE UTILITY RELOCATION

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES, INC.

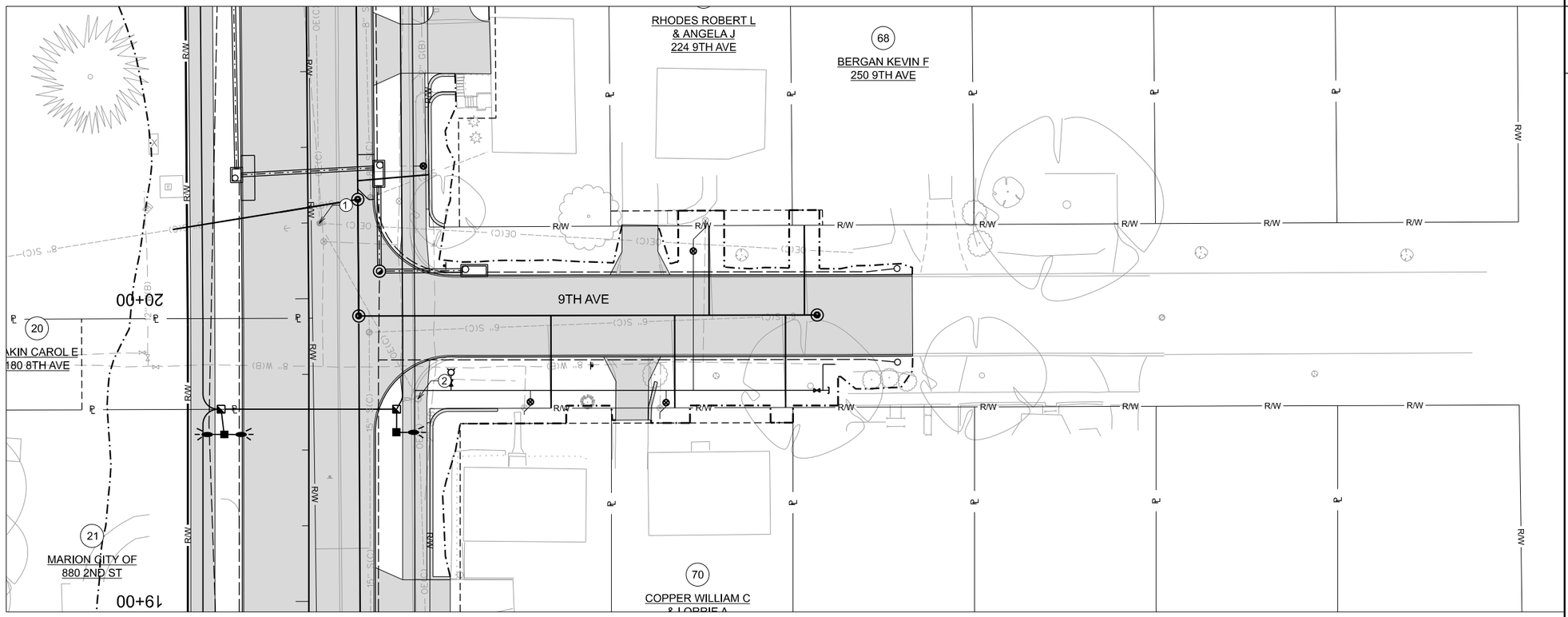
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Project No: 116.0663

Sheet U.24

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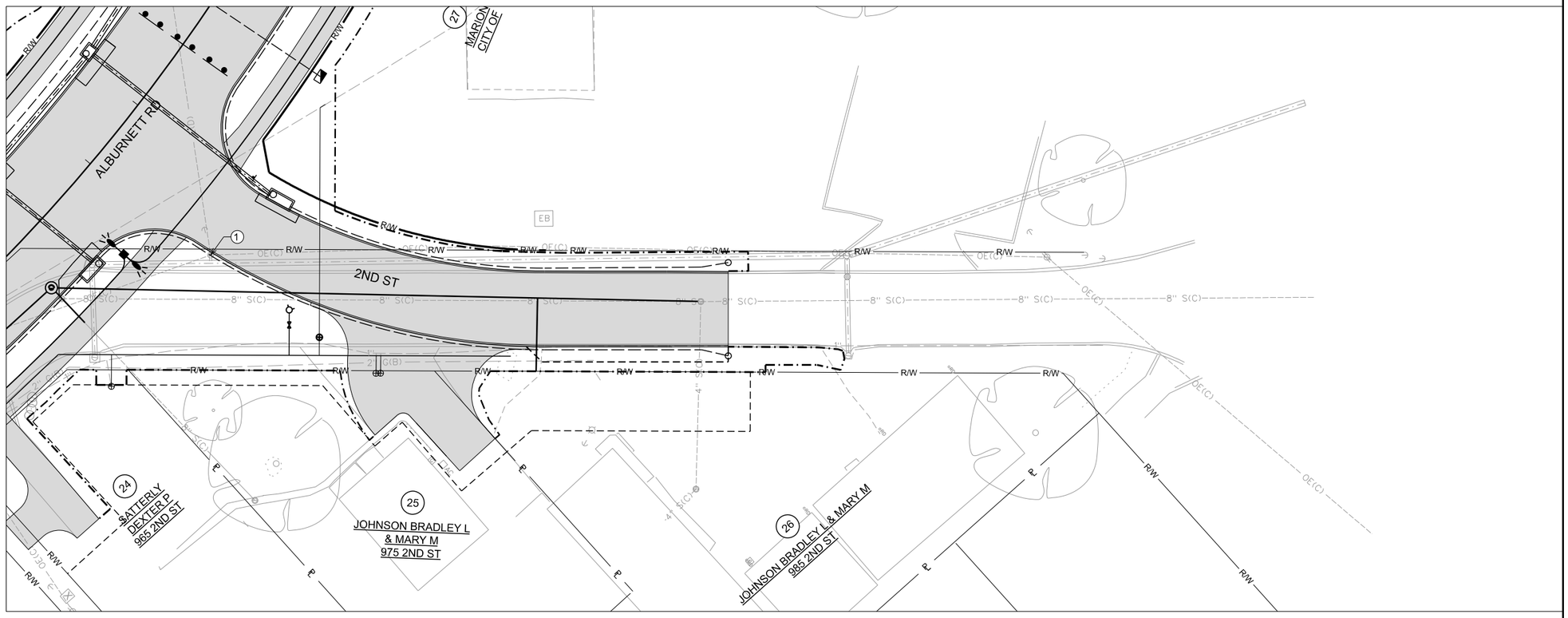
LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. RELOCATE POLE (BY OTHERS)
2. REMOVE LIGHT POLE (BY OTHERS)

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:
Technician: KMM | Date: 5/12/2026

Project No: 116.0663

Sheet U.25

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

FRANCHISE UTILITY RELOCATION

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Project No: 116.0663

Sheet U.25

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42
DULLE JOHN H & KARI A
220 BOYSON RD

BOYSON RD

37
VIERNES LYRA A & JOHNSON MARGA
780 ARCHER DR

36
GOO NAM HEE & PARK SOOJIN
778 ARCHER DR

35
DUGGAN PATRICK T
776 ARCHER DR

34A
ULTZ NICHOLAS G

66
LANDHERR RONALD A & AUDREY L
180 BOYSON RD

BOYSON RD

ALBURNETT RD

40
MIDWEST DEVELOPMENT CO
364 QUIVER CT

41
MIDWEST
DEVELOPMENT CO
392 QUIVER CT

37
ULTZ NICHOLAS G
& AMANDA S
774 ARCHER DR

LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

NOTES

1. RELOCATE/ADJUST GUY ANCHOR BY OTHERS
2. REMOVE LIGHT POLE (BY OTHERS)
3. RELOCATE PEDESTAL (BY OTHERS)
4. ADJUST PEDESTAL (BY OTHERS)
5. ADJUST HANDHOLE (BY OTHERS)

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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:
Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet U.26

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE,
PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

FRANCHISE UTILITY RELOCATION

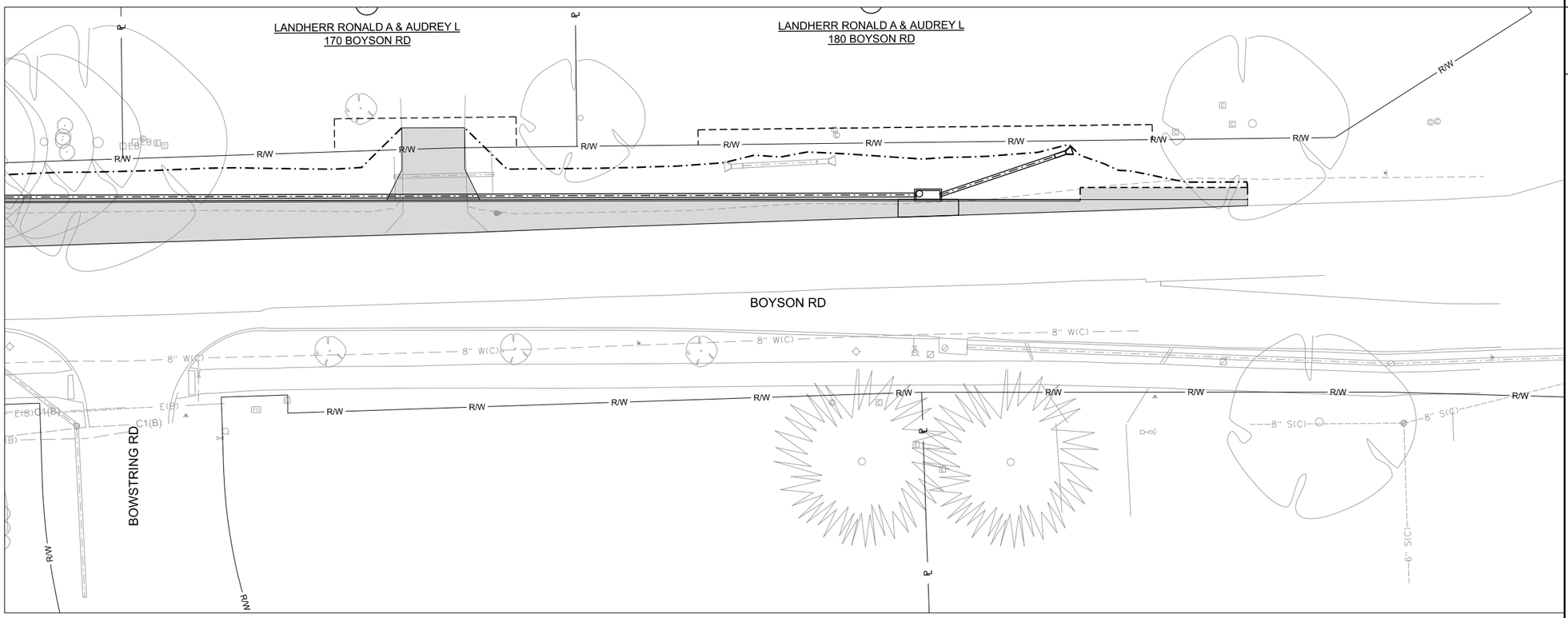
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Project No: 116.0663

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LEGEND

PROPOSED PAVEMENT IMPROVEMENTS

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet U.27

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

FRANCHISE UTILITY RELOCATION

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319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet U.27

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Estimated Bridge Quantities and Reference Notes

Item No.	Item Code	Item	Unit	Quantities Estimated	Estimate Reference Notes
9	2104-2710020	EXCAVATION, CLASS 10, CHANNEL	CY	3954.0	Consists of excavation required to embed the Revetment, Class E and Engineering Fabric. See Sheet V.5 for quantity itemization. Suitable Class 10 Channel or Class 20 Excavation may be used to construct the abutment berm, or may be wasted on the approach roadway foreslopes as directed by the Engineer. Suitable excavation material shall be as designated in Standard Specifications Section 2102.02, D, 2 & 3.
35	2402-2720000	EXCAVATION, CLASS 20	CY	581	Quantity assumes that abutment berms are constructed to the proposed roadway grade and channel shaping is completed. Suitable Class 10 Channel or Class 20 Excavation may be used to construct the abutment berm, or may be wasted on the approach roadway foreslopes as directed by the Engineer. Suitable excavation material shall be as designated in Standard Specifications Section 2102.02, D, 2 & 3.
36	2402-2721000	EXCAVATION, CLASS 21	CY	278	----
38	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	CY	539.6	Includes all resilient joint filler required. Includes furnishing and placing "E" joint material and polyetylene sheeting at the approach sidewalks. Includes furnishing and placing subdrain (including excavation), floodable backfill, porous backfill, butyl rubber membranes, waterproof adhesive, geotextile fabric, water flooding, and subdrain outlet at abutments and toe of berm. Includes installing anchor bolts at light pole bases. Includes material and labor associated with providing and installing the rigid steel conduit, junction boxes and fittings. Includes 480 lf of 2" diameter rigid steel conduit. Includes all costs of textured concrete mockup panels and concrete rustications. See Sheet V.6 for details. Includes cost for Contractor to provide certified plant inspection for all concrete.
39	2403-1000005	FIBER REINFORCEMENT FOR STRUCTURAL CONCRETE	CY	436.1	This bid item includes fiber reinforcement in the concrete for the deck, abutment diaphragms, and pier diaphragms. Refer to the Developmental Specification for Fiber Reinforcement for Structural Concrete for additional information.
40	2403-1000010	TRIAL BATCH AND TEST PLACEMENT (FIBER REINFORCED CONCRETE)	LS	1.00	Refer to the Developmental Specification for Fiber Reinforcement for Structural Concrete for additional information.
41	2403-7000210	HIGH PERFORMANCE STRUCTURAL CONCRETE	CY	460.1	This bid item includes the concrete for the deck, abutment diaphragms, pier diaphragms, wingwalls, and wings. Refer to the Developmental Specification for High Performance Concrete for Structures for additional information. Includes furnishing and placing 3 inch diameter PVC plastic pipe and expanding foam in the abutment wing walls. Includes cost for Contractor to provide certified plant inspection for all concrete.
42	2403-7303000	STRUCTURAL CONCRETE COATING	SY	253.7	Includes preparation and coating of concrete surfaces as indicated in these plans. See Sheets V.6 and V.7, Developmental Specifications for Concrete Surface Preparation and Testing Prior to Coating Application, and Developmental Specifications for Structural Concrete Coating for more information regarding surface preparation and coating requirements.
43	2404-7775000	REINFORCING STEEL	LB	85,654	----
44	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	149,924	Quantity Itemization: 98 LB is used for concrete apron footings (refer to M and U sheets for details) and reinforced pavement at shallow utility crossings (refer to B and L sheets for details). 149,826 LB is used for the Alburnett Road Bridge over Indian Creek (refer to V sheets for details).
45	2404-7775009	REINFORCING STEEL, STAINLESS STEEL	LB	3658	----
46	2407-0551363	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C63	EA	18	Includes pier and abutment bearing material and coil ties. Includes anchored curved sole plates at abutments. Includes Contractor filling out beam numbers by location and beam seat elevations in "PPC Beam Data Spreadsheet" and forwarding electronic spreadsheet to the Engineer.

Estimated Bridge Quantities and Reference Notes

Item No.	Item Code	Item	Unit	Quantities Estimated	Estimate Reference Notes
47	2407-0551371	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C71	EA	9	Includes pier bearing material and coil ties. Includes Contractor filling out beam numbers by location and beam seat elevations in "PPC Beam Data Spreadsheet" and forwarding electronic spreadsheet to the Engineer.
48	2408-7800000	STRUCTURAL STEEL	LB	10,136	Includes 12 drains at 106 lb each. Includes abutment bearing material.
50	2414-6425410	CONCRETE BARRIER, REINFORCED, SEPARATION	LF	529.4	If placement of concrete is done by the slipforming method, Class BR concrete is required. Cast-in-place barrier rails shall use Class C mix. Price bid for this item shall include the cost of cast-in-place forms if required for placement of the concrete. Includes cost for Contractor to provide certified plant inspection for all concrete.
51	2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING	LF	467.4	----
52	2414-6460000	ORNAMENTAL METAL RAILING	LF	454.2	See Sheet V.32 for details and method of measurement and basis of payment.
60	2433-0001042	CONCRETE DRILLED SHAFT, 42 IN. DIAMETER	LF	382	Includes all costs associated with performing confirmation borings and associated testing at substructure locations. Includes providing updated vertical and lateral geotechnical design parameters as required based on confirmation borings. See notes on Sheet V.8. Includes cost for Contractor to provide certified plant inspection for all concrete.
61	2433-0003000	DEMONSTRATION SHAFT	LF	20	Item may be deleted if Contractor can demonstrate sufficient experience per Article 2433.03, K, 6 of the Standard Specifications.
98	2507-2638650	BRIDGE WING ARMORING - EROSION STONE	SY	12.6	Includes furnishing and placing engineering fabric, erosion stone, and all required excavating, shaping and compacting for wing armoring.
99	2507-3250005	ENGINEERING FABRIC	SY	5884.4	Quantity Itemization: 231.4 SY is used at all areas of revetment as well as areas identified for unsuitable or unstable material excavation subgrade treatment (refer to B sheets for details). 5653.0 SY is used for the Alburnett Road Bridge over Indian Creek (refer to V sheets and V.5 for additional bridge quantity itemization). Engineering fabric as detailed in the V sheets shall be material as specified for embankment erosion control in accordance with Article 4196.01,B,3, of the Standard Specifications.
100	2507-6800061	REVETMENT, CLASS E	TON	6441.6	Quantity Itemization: 114.6 Tons is used at storm sewer and culvert outlets, bioretention basin outlet structure low flow orifice, and the bioretention basin overlow notch (refer to Tabulation 100-23 and M sheets for details). 6327.0 Tons is used for the Alburnett Road Bridge over Indian Creek (refer to V sheets and V.5 for additional bridge quantity itemization). Estimated at 1.6 Ton/CY.
182	2599-9999014	TEXTURED CONCRETE FORM LINER	SF	2284	See Sheets V.6 and V.7 for additional information and description of work. Includes all costs associated with furnishing, incorporating, and completing work with textured concrete form liners for cast-in-place bridge elements as described in these plans. The method of measurement shall be square feet. The Contractor will be paid the contract unit price upon completion of all work associated with the textured concrete form liners for cast-in-place bridge elements as required in these plans and specifications.
183	2599-9999018	ANTI-GRAFFITI COATING	SY	290.4	See Sheet V.6 for notes associated with this work. Refer to the Special Provision for Anti-Graffiti Coating for additional information.

Structural Design

LICENSED PROFESSIONAL ENGINEER
Jordan A. Gustafson
P24723
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature Jordan A. Gustafson 05-18-2026 Date

Jordan A. Gustafson
Printed or Typed Name

My license renewal date is December 31, 2027

Pages or sheets covered by this seal: Sheets V.1 thru V.35
(Excluding Hydraulic Design, Channel Grading, Revetment)

Roadway Quantities shown elsewhere in these plans.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Estimated Bridge Quantities

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.1 of V.35 FHWA No. 505820

Summary of Concrete Quantities

Location	Structural Concrete	HPC Struct. Concrete
South Abutment Cap + Backwall Stub	50.2	----
North Abutment Cap + Backwall Stub	50.2	----
South Abutment Wings + Wingwalls	----	12.0
North Abutment Wings + Wingwalls	----	12.0
Bridge Deck + Abut. & Pier Diaphagms	----	436.1 (F)
Pier No. 1	154.2	----
Pier No. 2	154.2	----
West Raised Sidewalk	52.0	----
East Raised Sidewalk	52.0	----
Approach Raised Sidewalk Slab (4 at 6.0)	24.0	----
Light Pole Column + Base (4 at 0.7)	2.8	----
(F) Include Fiber Reinforcement in Structural Concrete		
Total (Cu. Yds.)	539.6	460.1

Summary of Reinforcing Steel

Location	Non-Coated Reinforcing Steel	Stainless Steel Reinforcing Steel	Epoxy Coated Reinforcing Steel
South Abutment Shafts + Cap + Backwall Stub + Wings + Wingwalls	10,203	----------	9707
North Abutment Shafts + Cap + Backwall Stub + Wings + Wingwalls	7077	----------	9707
Bridge Deck + Abut. & Pier Diaphagms	----------	----------	107,276
West Separation Barrier Rail	----------	1407	3502
East Separation Barrier Rail	----------	1407	3502
Approach Separation Barrier Rail	----------	4 at 181	4 at 418
Pier No. 1	35,062	----------	----------
Pier No. 2	33,312	----------	----------
West Raised Sidewalk	----------	----------	5300
East Raised Sidewalk	----------	----------	5300
Approach Raised Sidewalk Slab	----------	4 at 30	4 at 748
Light Pole Column + Base	----------	----------	4 at 217
Total (Lbs.)	85,654	3658	149,826

Summary of Excavation

Location	Class 20 Excavation	Class 21 Excavation
South Abutment	179	----
North Abutment	179	----
Pier No. 1	116	148
Pier No. 2	107	130
Total (Cu. Yds.)	581	278

Summary of Foundations

Location	Substructure Type	Foundation Type	Number	Length (Lin. Ft.)	Total (Lin. Ft.)
South Abutment	Semi-Integral Abutment	42 Inch Drilled Shaft	5	30	150
North Abutment	Semi-Integral Abutment	42 Inch Drilled Shaft	5	20	100
Pier No. 1	Tee Pier	42 Inch Drilled Shaft	4	20	80
Pier No. 2	Tee Pier	42 Inch Drilled Shaft	4	13	52

Summary of Coating and Textured Concrete Form Liner

Location	Structural Concrete Coating (Color No. 1) (SY)	Textured Concrete Form Liner (SF)	Anti-Graffiti Coating (SY)
Pier No. 1	42.0	378	138.1
Pier No. 2	53.3	480	152.3
West Separation Rail Sidewalk Face	33.0	297	----------
West Separation Rail Traffic Face	40.4	364	----------
East Separation Rail Sidewalk Face	33.0	297	----------
East Separation Rail Traffic Face	40.4	364	----------
Light Pole Column + Base	4 at 2.9	4 at 26	----------
Total	253.7	2284	290.4

Summary of Structural Steel

Location	Total (Lbs.)
Diaphragms ①	6344
Deck Drains (12 at 106)	1272
South Abutment Bearings (9 at 140)	1260
North Abutment Bearings (9 at 140)	1260
Total (Lbs.)	10,136

① Diaphragms include all Intermediate Diaphragm Material, including Bolts and Welds.

Summary of Bearings

Location	Bearing Type	Number	Associated Bid Item
South Abutment	Laminated Neoprene/Curved Sole Plate - Assembly	9	* Structural Steel
North Abutment	Laminated Neoprene/Curved Sole Plate - Assembly	9	* Structural Steel
Pier No. 1	Plain Neoprene 1"	18	Incidental Item
Pier No. 2	Plain Neoprene 1"	18	Incidental Item

* Curved Sole Plates and Laminated Neoprene Pads are incidental to PPC Beams

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Summary Quantities Sheet

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.2 of V.35 FHWA No. 505820

Specifications:

Design:

AASHTO LRFD 8th Ed., Series of 2017, except as noted in the current Iowa Bridge Design Manual.

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2023, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications and Special Provisions shall apply to construction work on this project.

Developmental Specifications for High Performance Concrete for Structures.

Developmental Specifications for Fiber Reinforcement for Structural Concrete.

Developmental Specifications for Concrete Surface Preparation and Testing Prior to Coating Application.

Developmental Specifications for Structural Concrete Coating.

Developmental Specifications for Electronic Ticketing.

Special Provisions for Anti-Graffiti Coating.

Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO LRFD Bridge Design Specifications, 8th Ed., Series of 2017, except as noted in the current Iowa Bridge Design Manual.

Reinforcing steel in accordance with AASHTO LRFD Section 5, Grade 60 for epoxy coated and non-coated, and Grade 60 or 75 for stainless.

Concrete in accordance with AASHTO LRFD Section 5, f'c = 4.0 ksi, except prestressed beam concrete as noted.

Prestressed concrete beams, see Sheet V.22.

Structural steel in accordance with AASHTO LRFD Section 6. ASTM A709 Grade 36, Grade 50, and Grade 50W (AASHTO M270 Grade 36, Grade 50, and Grade 50W).

General Notes:

It is the intent of this design to construct a new 201'-4" x 38'-0" pretensioned prestressed concrete beam bridge with two 10'-0" sidewalks with 0° skew, on the relocated alignment of Alburnett Road over Indian Creek.

The city and utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Bridge Contractor of the construction starting date.

This bridge is designed for HL-93 Loading, plus 20 lbs. per square foot of roadway for future wearing surface.

It shall be the Bridge Contractor's responsibility to provide sites for excess excavated material. No payment for overhaul will be allowed for material hauled to these sites.

Class 20 excavation quantities are based on the assumption that the Class 10 roadway work is completed prior to starting construction of the abutments and piers.

The approach fills are to be in place before abutment drilled shafts are installed. The Bridge Contractor is to level off and shape the berms to the elevations and dimensions shown. Dressing of slopes outside the bridge area not disturbed by the Bridge Contractor shall be paid for as extra work.

All reinforcing bars and bars noted as dowels supplied for this structure shall be deformed reinforcement unless otherwise noted or shown.

Minimum clear distance from face of concrete to near reinforcing bar is to be 2" unless otherwise noted or shown.

These bridge plans label all reinforcing steel with English notation (5a1 is a $\frac{5}{8}$ inch diameter bar). English reinforcing steel received in the field may display the following "Bar Designation". The "Bar Designation" is the stamped impression on the reinforcing bars, and is equivalent to the bar diameter in millimeters.

English Size	3	4	5	6	7	8	9	10	11
Bar Designation	10	13	16	19	22	25	29	32	36

Keyway dimensions shown on the plans are based on nominal dimension unless stated otherwise. In addition, the bevel used on the keyway shall be limited to a maximum of 10 degrees from vertical.

Subdrain sloped downward 2% from ℄ approach roadway to extend thru fill (typical both abutments).

Concrete barrier rails placed using the slipform method will require the use of a Class BR Concrete in accordance with Article 2513.03, A, 2, of the Standard Specifications. Cast-in-place barrier rails shall use Class C mix. Class D Concrete is not permitted for concrete barrier rails (cast-in-place or slipformed method).

The Contractor shall be responsible for ensuring stability of prestressed concrete beams during erection and construction up through the concrete bridge deck reaching its full 28-day strength. The Contractor shall provide sufficient temporary anchor bracing at beam ends and temporary intermediate bracing as needed to ensure prestressed beam stability. Partially or fully installed permanent bracing as shown in these design plans shall not be assumed sufficient to brace prestressed beams during erection and construction. Temporary bracing shall not be welded to prestressed beam stirrups.

During construction of this project, the Bridge Contractor will be required to coordinate operations with those of other Contractors working within the same area. Other work in progress during the same period of time will include, but is not limited to, construction of the projects listed on the J Sheets in the roadway plans.

Bridge Coordinates

Location	℄ S. Abut. Bearing	℄ Pier 1	℄ Pier 2	℄ N. Abut. Bearing
West Edge of Deck	E=5434507.9961 N=3482334.9115	E=5434472.0309 N=3482387.9509	E=5434430.9680 N=3482448.5083	E=5434395.0028 N=3482501.5477
℄ Approach Roadway	E=5434533.9985 N=3482352.5433	E=5434498.0333 N=3482405.5827	E=5434456.9704 N=3482466.1401	E=5434421.0053 N=3482519.1795
East Edge of Deck	E=5434560.0009 N=3482370.1751	E=5434524.0358 N=3482423.2145	E=5434482.9728 N=3482483.7719	E=5434447.0077 N=3482536.8113

Note:
An Electronic file containing the bridge coordinate data is available as part of the E-Files supplied with the contract documents. The contractor shall verify these coordinates with the project horizontal control information provided in the Road Plans.

Bridge Deck Dimension Table

No.	Item	Unit	Quantity
1	Deck Length	L.F.	204.3
2	Minimum Deck Width	L.F.	62.8
3	Maximum Deck Width	L.F.	62.8
4	Deck Area	S.F.	12,830

1. Deck length is measured from face-to-face of paving notches along the centerline of the roadway.
2, 3. Deck widths are measured from out-to-out of deck perpendicular to the centerline of the roadway.
4. Deck area is to be based on the face-to-face paving notch distance and out-to-out deck dimensions.

Pollution Prevention Plan shown elsewhere in these plans.

Traffic Control Plan

This structure is being constructed on a new alignment and the road will not be open to traffic until after completion of construction.

Working Drawing and Calculation Submittals

Working drawings and calculations shall be submitted for the following items shown in the table below. (Note additional working drawings and calculations may be required in accordance with Article 1105.03 of the Standard Specifications.)

Submittal requirements for working drawings and calculations shall be in accordance with 1105.03 of the Standard Specifications for Highway and Bridge Construction of the Iowa Department of Transportation. The absence of a certification requirement for a submittal does not relieve the Contractor of the responsibility to attain certification.

Calculation submittals in this table which are associated with working drawing submittals shall be submitted on the same day. Review time for calculation submittals shall be of the same duration as and run concurrently with review time for associated working drawings. The calculation submittals listed in the table are not meant to be an exhaustive list and do not relieve the Contractor from providing additional calculation submittals if requested by the Engineer.

No.	Working Drawing Description	Working Drawing File Name Convention For Submittal	Certified by Iowa P.E. (Yes/No)
1	Steel Intermediate Diaphragms	57_Linn_(646)_SteelIntDiaphragms.pdf	No
2	Abutment Bearings	57_Linn_(646)_AbutmentBearings.pdf	No
3	Deck Drains	57_Linn_(646)_DeckDrains.pdf	No
4	Textured Concrete Form Liner	57_Linn_(646)_TexturedConcreteFormLiner.pdf	No
5	Steel Pedestrian Hand Rail	57_Linn_(646)_SteelPedestrianHandRail.pdf	No
6	Ornamental Metal Rail	57_Linn_(646)_OrnamentalMetalRail.pdf	No
No.	Calculation Description	Working Drawing File Name Convention For Submittal	Certified by Iowa P.E. (Yes/No)
7			

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

General Notes

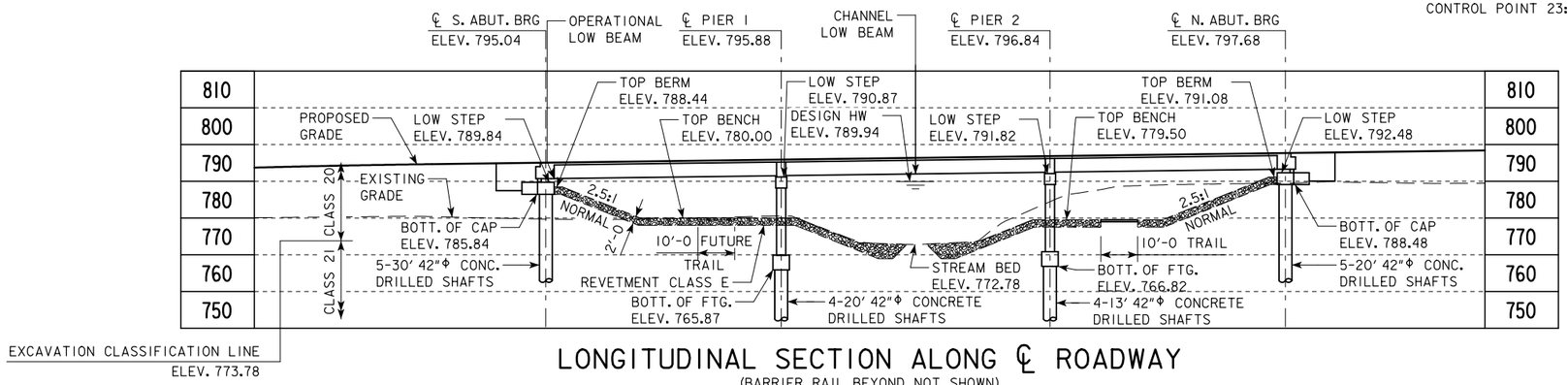
STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

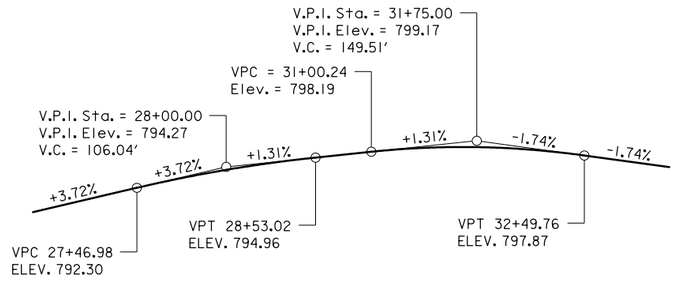
Design Sheet No. V.3 of V.35 FHWA No. 505820

CONTROL POINT 23: NORTHING 3481884.65, EASTING 5434898.15, ELEV. 790.24, ½" IRON ROD WITH RED PLASTIC CAP.



LONGITUDINAL SECTION ALONG ℄ ROADWAY

(BARRIER RAIL BEYOND NOT SHOWN)



PROFILE GRADE ALBURNETT ROAD

NOTES:
ALL OFFSETS MEASURED FROM ℄ ALBURNETT ROAD U.N.O.
TOP OF BRIDGE DECK CROWN 0.03' BELOW PROFILE GRADE.
ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

HYDRAULIC DATA

DRAINAGE AREA = 36.0 SQ. MI.
STREAM SLOPE = 8.37 FT./MI.

Q_{50} = 8,179 CFS
STAGE = 788.24
OPERATIONAL LOW BEAM = 790.19
OPERATIONAL FREEBOARD = 1.57 FT.
AVG. BRIDGE VELOCITY = 4.35 FPS

Q_{100} = 10,218 CFS
STAGE = 789.94
OPERATIONAL LOW BEAM = 790.19
OPERATIONAL FREEBOARD = 0.00 FT.
BACKWATER = 0.13 FT.
AVG. BRIDGE VELOCITY = 3.69 FPS

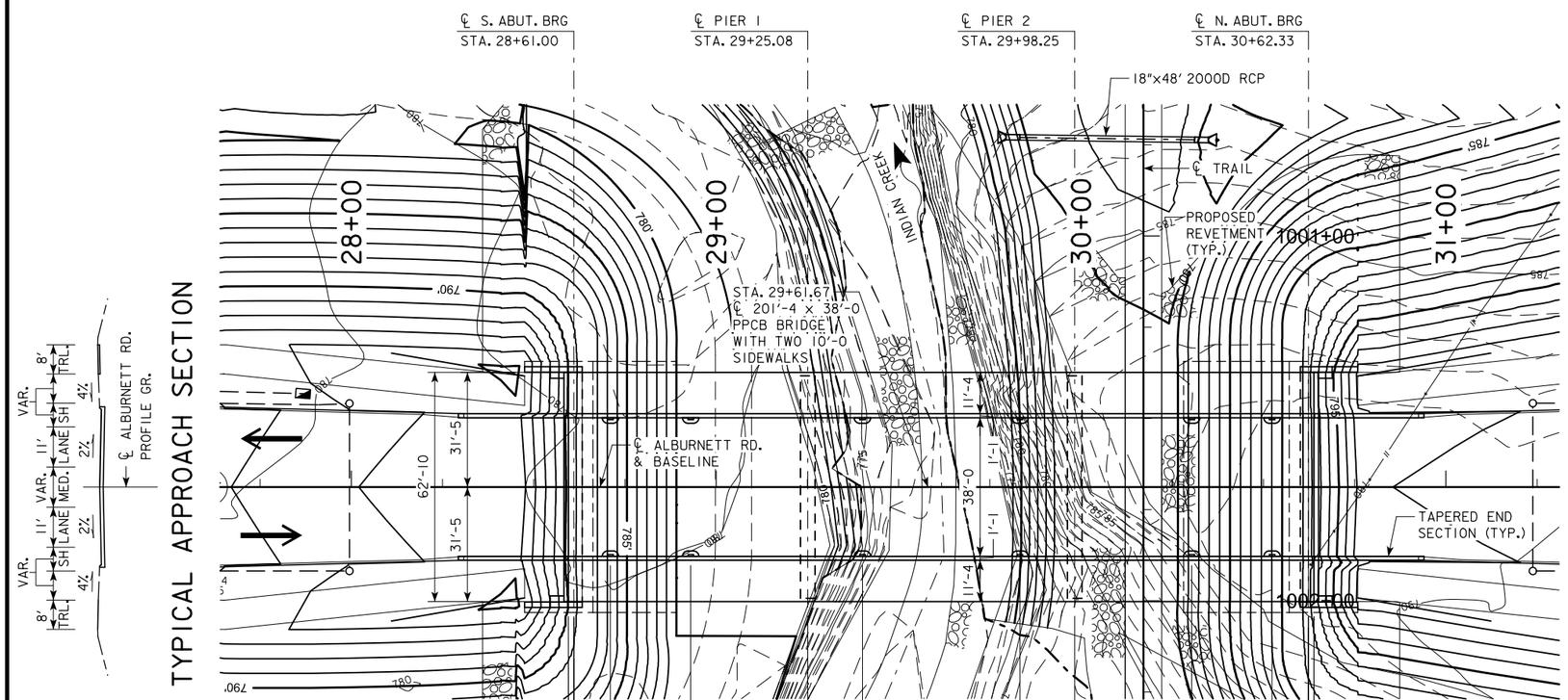
Q_{200} = 12,449 CFS
STAGE = 791.19
CALCULATED DESIGN SCOUR = 765.84

Q OVERTOP= 6,300 CFS
AVG. BRIDGE VELOCITY = 4.55 FPS
CALCULATED CHECK SCOUR = 762.89
ROADWAY OVERTOP 786.73
STA. 24+62.65

Q_{500} = 15,720 CFS
STAGE = 794.20
CHANNEL LOW BEAM = 791.53
CHANNEL FREEBOARD = -2.78 FT.

50, 100 & 500 YR. STAGES AND DISCHARGES FROM LINN COUNTY F.I.S., DATED MAY 22, 2024.

THE BRIDGE WILL BE DESIGNED TO WITHSTAND THE APPLICABLE EFFECTS OF ICE AND HORIZONTAL STREAM LOADS AND UPLIFT FORCES ASSOCIATED WITH THE Q100 DISCHARGE.



SITUATION PLAN

NOTE: ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED.

UTILITIES LEGEND:

OE(C) - OVERHEAD ELECTRIC - ITC MIDWEST
S(C) - SANITARY SEWER - CITY OF MARION

TRAFFIC ESTIMATE

2021 AADT	1,580	V.P.D.
2045 AADT	11,900	V.P.D.
2045 DHV	1,190	V.P.H.
TRUCKS	1	%
TOTAL DESIGN ESALs	-	

HYDRAULIC DESIGN

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Adam R. Bullerman 17362 — Licensed Professional Engineer — Iowa

Signature: Adam Bullerman — Date: 03-03-2026

Printed or Typed Name: Adam R. Bullerman

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: SHEETS V.4 AND V.5 (HYDRAULIC DESIGN, CHANNEL GRADING, REVETMENT)

LOCATION

ALBURNETT ROAD
OVER INDIAN CREEK
T-84N R-7W
SECTION 36
MARION TOWNSHIP
PART OF CITY OF MARION
LINN COUNTY
FHWA NO. 505820
LATITUDE 42.037471°
LONGITUDE -91.610626°

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

Situation Plan

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

Linn County

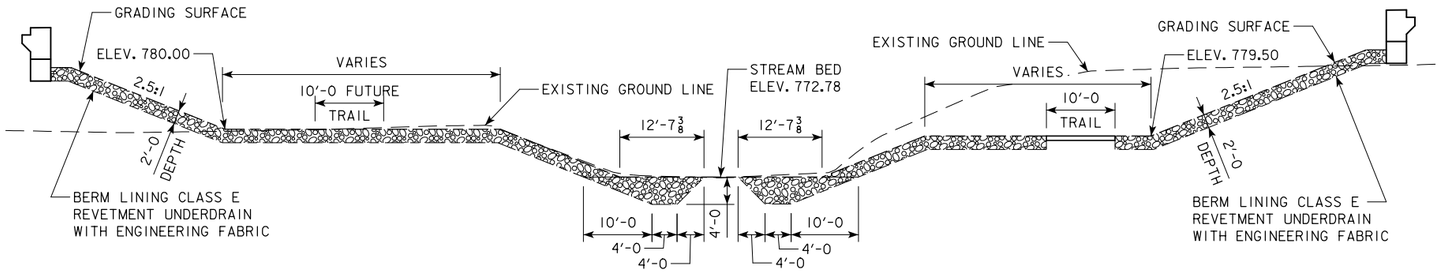
IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.4 of V.35 — FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.4

11:07:14 AM 3/3/2026 jgustafson V:\Projects\2016\116.0663.07B\CADD\SHT_116066307B_TSL_SBI.dgn 57DDDDS004 11x17_pdf.pltcfg

CONTROL POINT 23: NORTHING 3481884.65, EASTING 5434898.15, ELEV. 790.24, ½" IRON ROD WITH RED PLASTIC CAP.



SECTION THRU EMBEDDED REVETMENT BERM

ESTIMATED BERM ARMORING QUANTITIES

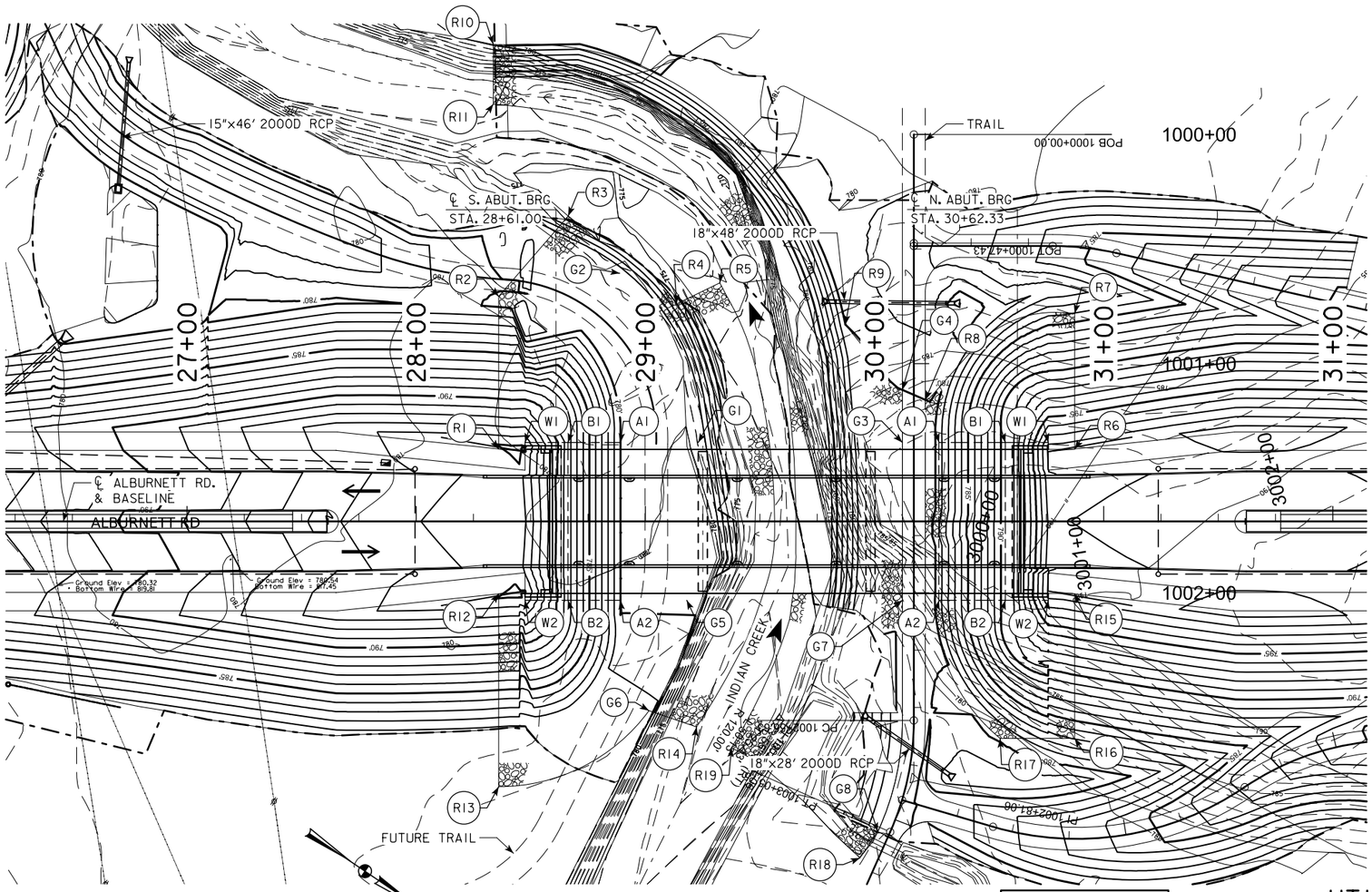
LOCATION	REVETMENT CL. E (TON)	ENGINEERING FABRIC (SY)	EXCAVATION, CLASS 10 CHANNEL (CY)
BERM LINING - NORTH ABUTMENT	2348	2201	1468
STONE TOE - NORTH ABUTMENT	449	344	280
BERM LINING - SOUTH ABUTMENT	840	640	525
STONE TOE - SOUTH ABUTMENT	2690	2468	1681
TOTALS	6327	5653	3954

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE. EXCAVATION QUANTITY IS FOR EMBEDDED REVETMENT CORE OUT ONLY, AND DOES NOT INCLUDE EXCAVATION TO THE GRADING SURFACE. EXCAVATION QUANTITY TO THE GRADING SURFACE IS DETERMINED BY ROAD DESIGN AND INCLUDED IN THE ROAD PLANS.

BERM SLOPE LOCATION TABLE

POINTS	SOUTH ABUTMENT			NORTH ABUTMENT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
A1	28+89.12	34.42' LT.	780.00	30+28.13	34.42' LT.	779.50
A2	28+89.12	34.42' RT.	780.00	30+28.13	34.42' RT.	779.50
B1	28+66.25	34.42' LT.	788.44	30+57.08	34.42' LT.	791.08
B2	28+66.25	34.42' RT.	788.44	30+57.08	34.42' RT.	791.08
W1	28+47.50	34.42' LT.	795.00	30+75.83	34.42' LT.	797.99
W2	28+47.50	34.42' RT.	795.00	30+75.83	34.42' RT.	797.99

BERM SLOPE ELEVATIONS REFLECT THE GRADING SURFACE



SITE PLAN

0 ENGLISH 60
SCALE IN FEET

GRADING CONTROL:

- (G1) STA. 29+23.06, 34.42' LT; EDGE OF BENCH
- (G2) STA. 28+88.82, 108.22' LT; EDGE OF BENCH
- (G3) STA. 30+12.11, 34.42' LT; EDGE OF BENCH
- (G4) STA. 30+12.11, 57.40' LT; EDGE OF BENCH
- (G5) STA. 29+18.00, 34.42' RT; EDGE OF BENCH
- (G6) STA. 29+01.56, 82.61' RT; EDGE OF BENCH
- (G7) STA. 30+12.11, 34.42' RT; EDGE OF BENCH
- (G8) STA. 30+01.36, 135.41' RT; EDGE OF BENCH

REVETMENT LAYOUT:

- (R1) STA. 28+35.98, 31.56' LT; END BERM LINING
- (R2) STA. 28+35.98, 98.16' LT; END BERM LINING
- (R3) STA. 28+66.26, 133.25' LT; END BERM LINING
- (R4) STA. 29+13.65, 94.95' LT; END BERM LINING
- (R5) STA. 29+32.46, 104.12' LT; END STONE TOE
- (R6) STA. 30+87.31, 31.54' LT; END BERM LINING
- (R7) STA. 30+87.31, 90.76' LT; END BERM LINING
- (R8) STA. 30+22.11, 53.04' LT; END BERM LINING
- (R9) STA. 29+87.25, 85.91' LT; END BERM LINING
- (R10) STA. 28+33.64, 208.13' LT; END BERM LINING
- (R11) STA. 28+33.64, 182.10' LT; END STONE TOE
- (R12) STA. 28+35.98, 31.56' RT; END BERM LINING
- (R13) STA. 28+35.98, 115.74' RT; END BERM LINING
- (R14) STA. 29+22.25, 89.67' RT; END STONE TOE
- (R15) STA. 30+87.31, 31.54' RT; END BERM LINING
- (R16) STA. 30+87.31, 94.70' RT; END BERM LINING
- (R17) STA. 30+54.76, 94.70' RT; END BERM LINING
- (R18) STA. 29+93.63, 146.83' RT; END BERM LINING
- (R19) STA. 29+37.56, 98.72' RT; END STONE TOE

UTILITIES LEGEND:

OE(C) - OVERHEAD ELECTRIC - ITC MIDWEST
S(C) - SANITARY SEWER - CITY OF MARION

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

Site Plan

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.5 of V.35 — FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.5	

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GENERAL NOTES FOR TEXTURED CONCRETE FORM LINERS:

1. SEE INDIVIDUAL SHEETS FOR SPECIFIC NOTES AND DETAILS DESCRIBING THE FEATURES WHICH INCORPORATE TEXTURED CONCRETE. TEXTURED CONCRETE SURFACES ARE INCLUDED ON CAST-IN-PLACE CONCRETE BRIDGE ELEMENTS. WORK PERFORMED TO CREATE TEXTURED CONCRETE SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR FORMWORK AND THE FOLLOWING:
2. FORM THE TEXTURED CONCRETE SURFACE USING A FORM LINER SYSTEM MADE OF HIGH-STRENGTH URETHANE ELASTOMER, PLASTIC OR FLEXIBLE FOAM MATERIALS CAPABLE OF WITHSTANDING ANTICIPATED CONCRETE POUR PRESSURES WITHOUT LEAKAGE OR CAUSING PHYSICAL DEFECTS. FORM LINERS SHALL EASILY ATTACH TO FORMS AND BE REMOVABLE WITHOUT CAUSING CONCRETE SURFACE DAMAGE. IF RECOMMENDED BY THE FORM LINER MANUFACTURER, USE STRUCTURAL BACKERS TO PREVENT DEFORMATION OF THE LINER DURING LOADING OF THE FORMS. THE LINERS SHALL BE DESIGNED TO FORM SURFACES CONFORMING TO THE DESIGN INTENT INCLUDING THE SHAPE, LINES AND DIMENSIONS SHOWN IN THE PLANS AND TO AVOID VISIBLE PATTERN REPEATS. MATCH PATTERN FEATURES AT FORM LINER JOINTS TO MINIMIZE PATTERN REPEATS AND MAKE THE FORMED CONCRETE SURFACE APPEAR UNIFORM AND CONTINUOUS WITHOUT VISIBLE SEAMS AND FORM MARKS. WHEN JOINTS ARE UNAVOIDABLE, MAKE JOINTS ALONG MAIN FEATURES OF THE PATTERN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. FORM LINER EDGES FOLLOWING CURVES ARE TO BE CUT CLEANLY AND PARALLEL TO THE CURVE. USE ADEQUATE BLOCKING, SEALING AND OTHER MEANS IN ORDER TO MAINTAIN THE APPROPRIATE DEPTH AND CHARACTER OF TEXTURE AT CUT EDGES OF LINERS AND TO PREVENT MORTAR LEAKAGE.
4. DURING LOADING OF FORMS WITH CONCRETE, TAKE EXTRA CARE TO ADEQUATELY VIBRATE CONCRETE IN ORDER TO MAINTAIN ALL INTENDED FEATURES OF THE FORM LINER IN THE FINAL SURFACE AND TO PREVENT VOIDS. FOLLOWING REMOVAL OF FORMS, FINISH MINOR DEFECTS TO BLEND WITH THE BALANCE OF THE SURFACE TEXTURE. THE COMPLETED SURFACE SHALL BE FREE OF BLEMISHES, SURFACE VOIDS AND CONSPICUOUS FORM MARKS TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL CORRECT, AT HIS OWN COST, ANY SURFACE DEFECTS.
5. VERIFY THAT RELEASE AGENTS USED ARE COMPATIBLE WITH FORM LINER MATERIAL, AND ARE NON-STAINING. APPLY RELEASE AGENT IN ACCORDANCE WITH THE FORM LINER MANUFACTURER'S RECOMMENDATIONS.
6. IF USED, FORM TIES SHALL BE MADE OF NON-CORROSIVE MATERIALS WHEN THE PORTION PERMANENTLY EMBEDDED IN THE CONCRETE IS LESS THAN 1½ INCHES FROM THE FINISHED SURFACE. POSITION FORM TIES AND ACCESSORIES IN STONE PATTERN MORTAR JOINTS AND AT HIGH POINTS OF FINISHED SURFACES.
7. STRIP FORMWORK IN ACCORDANCE WITH LINER MANUFACTURER'S RECOMMENDATIONS AFTER THE CONCRETE HAS SUFFICIENT STRENGTH TO AVOID SURFACE DAMAGE. CLEAN AND REPAIR FORM LINER SURFACES PRIOR TO USE. DO NOT USE SPLIT, FRAYED, DELAMINATED OR OTHERWISE DAMAGED FORM LINERS.
8. ALL COSTS ASSOCIATED WITH CONCRETE TEXTURING AND FORM LINERS OF CAST-IN-PLACE CONCRETE BRIDGE ELEMENTS ARE TO BE INCLUDED IN THE BID ITEM "TEXTURED CONCRETE FORM LINER".

TEXTURED MOCKUP PANEL NOTES:

1. PRIOR TO BEGINNING ANY PRODUCTION CONCRETE WORK THAT INCLUDES TEXTURE, A TEXTURED CONCRETE MOCKUP PANEL MUST BE REVIEWED AND APPROVED BY THE ENGINEER. A MINIMUM OF ONE PANEL FOR EACH DIFFERENT FORM LINER DEPTH IS REQUIRED.
2. CONSTRUCT A 3-FOOT HIGH, BY 6-INCH WIDE (MIN.), BY 3-FOOT LONG MOCKUP PANEL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THESE PLANS. SEE MOCKUP DETAILS ON THIS SHEET.
3. CAST THE MOCKUP PANEL(S) ON SITE, USING THE SAME FORMING METHODS, PROCEDURES, FORM LINERS, AND CONCRETE MIXTURE(S) AS ARE PROPOSED FOR THE PRODUCTION WORK. TEXTURED FACE SHALL BE VERTICAL DURING THE CASTING PROCESS. A SINGLE MAT OF NO. 5 REINFORCING BARS IN TWO DIRECTIONS SHALL BE CENTERED WITHIN THE PANEL. IF THE MOCKUP PANEL IS REJECTED, CONSTRUCT A NEW MOCKUP PANEL AS DIRECTED BY THE ENGINEER. BEGIN TEXTURED CONCRETE PRODUCTION WORK ONLY AFTER THE MOCKUP HAS BEEN APPROVED BY THE ENGINEER.
4. ALL COSTS ASSOCIATED WITH THE TEXTURED CONCRETE MOCKUP PANEL(S) OF CAST-IN-PLACE CONCRETE BRIDGE ELEMENTS ARE TO BE INCLUDED IN THE BID ITEM "STRUCTURAL CONCRETE (BRIDGE)".

ANTI-GRAFFITI COATING NOTES:

1. ANTI-GRAFFITI SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE "SPECIAL PROVISIONS FOR ANTI-GRAFFITI COATING" AND MATERIAL USED SHALL BE AN APPROVED TYPE IN ACCORDANCE WITH MATERIALS I.M. 491.23.
2. ANTI-GRAFFITI COATING SHALL BE APPLIED TO ALL EXPOSED SURFACES OF THE PIERS. ANTI-GRAFFITI COATING IS NOT REQUIRED ON THE TOP HORIZONTAL SURFACE OF THE PIER CAP.
3. ANTI-GRAFFITI COATING SHALL NOT PERMANENTLY DARKEN SURFACES.
4. VERIFY COMPATIBILITY WITH PREVIOUSLY APPLIED COATINGS.

GENERAL NOTES FOR CONCRETE RUSTICATION:

1. STRIPS AND PANELS USED AS INSERTS WITHIN CONCRETE FORMS TO CREATE THE RUSTICATION FEATURES MAY BE MADE OF WOOD, STEEL, PLASTIC OR OTHER NONPOROUS MATERIAL CAPABLE OF WITHSTANDING ANTICIPATED CONCRETE POUR PRESSURES WITHOUT PHYSICAL DEFECTS. WOOD INSERTS, IF USED, SHALL BE FREE OF WARP, TWIST, CHECKS OR CRACKS, AND SHALL BE PRESOAKED PRIOR TO PLACEMENT OF CONCRETE IN THE FORMS.
2. RUSTICATION INSERTS SHALL EASILY ATTACH TO FORMS AND SHALL NOT ALLOW LEAKAGE OF CONCRETE BETWEEN THE FORM AND THE INSERT. WHEN STEEL FORMS ARE USED, RUSTICATION STRIPS MAY BE RIGIDLY ATTACHED TO THE INSIDE SURFACES OF THE FORMS. WHEN STEEL FORMS ARE NOT USED, RUSTICATION STRIPS AND OTHER INSERTS FOR SMALL RECESSES ON EXPOSED CONCRETE SURFACES SHALL BE FASTENED TO THE FORMS IN A MANNER THAT WILL PERMIT THEM TO REMAIN IN PLACE WHEN THE FORMS ARE REMOVED. LEAVE INSERTS IN PLACE UNTIL THEY CAN BE REMOVED WITHOUT DAMAGE TO THE SURROUNDING CONCRETE.
3. THE INSERTS SHALL BE DESIGNED TO FORM SURFACES AND FEATURES CONFORMING TO THE DESIGN INTENT INCLUDING THE SHAPE, LINES, DEPTHS AND DIMENSIONS SHOWN IN THE PLANS. CREATE INSERTS USING A MINIMUM NUMBER OF SPLICE JOINTS IN THEIR LENGTH. SPLICES, IF USED, SHALL BE TIGHTLY JOINED SO AS NOT TO ALLOW GAPS OR LEAKS, AND SHALL NOT CREATE ANY CHANGE IN ALIGNMENT OR SHAPE OF THE RUSTICATION FEATURE. DO NOT LOCATE FORM TIES WITHIN CONCRETE RUSTICATIONS.
4. FOR RUSTICATION FEATURES FOLLOWING THE PERIMETER OF ROUNDED SURFACES, IT MAY BE NECESSARY TO USE MULTIPLE LAYERS OF INSERT MATERIAL IN ORDER TO ACHIEVE THE RADIUS CURVE. THIS IS ACCEPTABLE, PROVIDED THAT THE FINAL SHAPE, LINE, DEPTH, AND DIMENSION OF THE FEATURES ARE MAINTAINED IN THE FINAL RESULT.
5. DURING LOADING OF FORMS WITH CONCRETE, TAKE EXTRA CARE TO ENSURE PROPER CONSOLIDATION OF CONCRETE AROUND ALL RUSTICATION INSERTS TO PRESERVE THE SHAPE, LINE AND DEPTH OF ALL INTENDED FEATURES IN THE FINAL CONCRETE SURFACE. FOLLOWING REMOVAL OF FORMS, REPAIR ALL DEFECTS TO ACHIEVE THE RUSTICATION FEATURES AS SPECIFIED IN THE PLANS. PATCH VOIDS, HONEYCOMB AREAS, ETC., IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. IF SURFACES WILL NOT RECEIVE A COLORED SEALER COATING, ADD WHITE CEMENT TO THE PATCHING MORTAR TO LIGHTEN IT IN ORDER TO MATCH SURROUNDING CONCRETE WHEN DRY. COMPLETED SURFACE SHALL BE FREE FROM BLEMISHES, SURFACE VOIDS AND CONSPICUOUS FORM MARKS TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL CORRECT, AT HIS OWN COST, ANY SURFACE DEFECTS.
6. ALL COSTS ASSOCIATED WITH CONCRETE RUSTICATION OF CAST-IN-PLACE CONCRETE BRIDGE ELEMENTS ARE TO BE INCLUDED IN THE BID ITEM "STRUCTURAL CONCRETE (BRIDGE)".

TEXTURED CONCRETE NOTES:

1. THIS WORK CONSISTS OF APPLYING TEXTURED FINISHES ON ALL DESIGNATED CONCRETE SURFACES OF THE CAST-IN-PLACE CONCRETE BRIDGE ELEMENTS SHOWN IN THE PLANS. SEE "GENERAL NOTES FOR TEXTURED CONCRETE FORM LINERS" FOR MORE INFORMATION REGARDING THE USE OF FORM LINERS. THE TEXTURED CONCRETE MOCKUP PANEL MUST BE REVIEWED AND APPROVED BY THE ENGINEER BEFORE BEGINNING PRODUCTION CONCRETE WORK THAT INCLUDES TEXTURE.
2. THE FORM LINER USED TO PRODUCE THE TEXTURE SHOWN IN THE PLAN DETAILS SHALL PRODUCE A TEXTURED EFFECT OF A REALISTIC, DRYSTACKED STONE SURFACE AT PIERS AND LINEAR CUT BLOCK AT THE SEPARATION RAILS AND LIGHT POLE COLUMNS. MAXIMUM DEPTH OF TEXTURE SHALL BE 1½ INCHES AT PIERS AND ¾ INCHES AT THE SEPARATION RAILS AND LIGHT POLE COLUMNS. OBTAIN TEXTURE FORM LINER MATERIALS FROM ONE OF THE FOLLOWING MANUFACTURERS LISTED BELOW.
   A. PIER FORM LINER MANUFACTURERS:
      1. CREATIVE MINES CRAFT TRAIL LEDGE FOGBANK
      2. FITZGERALD 17933 SIERRA DRYSTACK
      3. SPEC PATTERN 1524 SAN DIEGO DRYSTACK
      4. RECKLI 2/160
   B. SEPARATION RAIL AND LIGHT POLE COLUMN FORM LINER MANUFACTURERS:
      1. FITZGERALD 17027 LP ¾" ASHLAR LINEAR CUT BLOCK
      2. RECKLI 2/147 ALLGAU
      3. RECKLI 2/219 MERSEY
3. SURFACES AS DESIGNATED IN THE PLANS SHALL ALSO RECEIVE CONCRETE RUSTICATION. SEE "GENERAL NOTES FOR CONCRETE RUSTICATION" FOR MORE INFORMATION REGARDING APPROVED TECHNIQUES AND METHODS OF CONCRETE RUSTICATION.

TEXTURED CONCRETE PAINTING NOTES:

THE TEXTURED SURFACES OF THE BRIDGE ELEMENTS AS NOTED AND SHOWN IN THE PLANS SHALL BE FINISHED WITH MINERAL SILICATE PAINT CHOSEN FROM THE FOLLOWING LISTED PRODUCTS:

1. KEIM MINERAL COATINGS OF AMERICA: CONCRETAL MINERAL COATING
2. EDISON COATINGS, INC.: EVERKOTE 300 MINERAL COATING
3. CATHEDRAL STONE PRODUCTS: MASONRE MINERAL COATING
4. BEECK MINERAL PAINTS: BEECKO-SOL OR RENOSIL COATING
5. CONPROCO CORPORATION: CONPROCO M3P SYSTEM
6. APPROVED EQUAL: SUBMIT PRODUCT INFORMATION TO THE CITY OF MARION PUBLIC WORKS DEPARTMENT, MARION, IA 52302. DO NOT ORDER MATERIALS PRIOR TO RECEIVING APPROVAL FOR USE ON THE PROJECT.

PRIOR TO BEGINNING PRODUCTION PAINTING, DEMONSTRATE SURFACE PREPARATION METHODS AND PAINT APPLICATION ON THE TEXTURED CONCRETE MOCKUP PANEL LOCATED AT THE PROJECT SITE. NO PRODUCTION CONCRETE PAINTING MAY BEGIN UNTIL FINAL APPROVAL OF PAINTING RESULTS ON THE MOCKUP. APPROVED MOCKUP SHALL REMAIN IN PLACE NEAR THE PROJECT FOR COMPARISON TO PRODUCTION PAINTING UNTIL WORK IS COMPLETED.

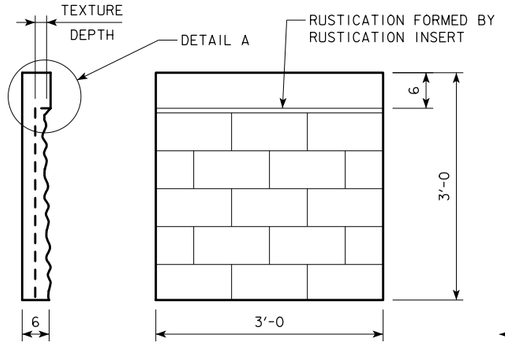
VEGETATION IN THE GRADE AREAS IMMEDIATELY ADJACENT TO THE RETAINING WALL SHALL BE THOROUGHLY MOWED PRIOR TO SURFACE PREPARATION AND COATING APPLICATION. ALL COSTS FOR MOWING SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM, "STRUCTURAL CONCRETE COATING".

PRIOR TO CONCRETE COATING APPLICATION, PREPARE SURFACES IN ACCORDANCE WITH THE "DEVELOPMENTAL SPECIFICATIONS FOR CONCRETE SURFACE PREPARATION AND TESTING PRIOR TO COATING APPLICATION". APPLY MINERAL SILICATE PAINT IN ACCORDANCE WITH THE "DEVELOPMENTAL SPECIFICATIONS FOR STRUCTURAL CONCRETE COATING".

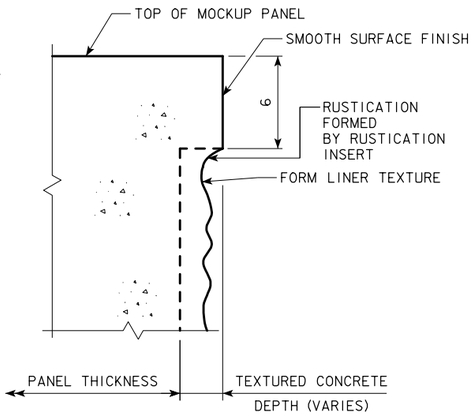
THERE IS ONE COLOR OF MINERAL SILICATE PAINT TO BE USED ON THE BRIDGE ELEMENTS. "COLOR NO. 1" SHALL BE A LIMESTONE BUFF COLOR TO MATCH SAE AMS-STD-595A COLOR NUMBER 33711. SUBMIT PRODUCT SPECIFICATION SHEETS AND COLOR SAMPLES AS DESCRIBED IN THE DEVELOPMENTAL SPECIFICATIONS. SEE SUMMARY QUANTITIES SHEET FOR QUANTITY ITEMIZATION.

WHEN ALL PRODUCTION CONCRETE PAINTING IS COMPLETE, THE CONCRETE MOCKUP PANEL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

ALL COSTS ASSOCIATED WITH SURFACE PREPARATION AND APPLICATION OF MINERAL SILICATE PAINT SHALL BE INCLUDED IN THE BID ITEM, "STRUCTURAL CONCRETE COATING".



TEXTURE MOCKUP PANEL DETAILS



DETAIL A

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Aesthetic Notes

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

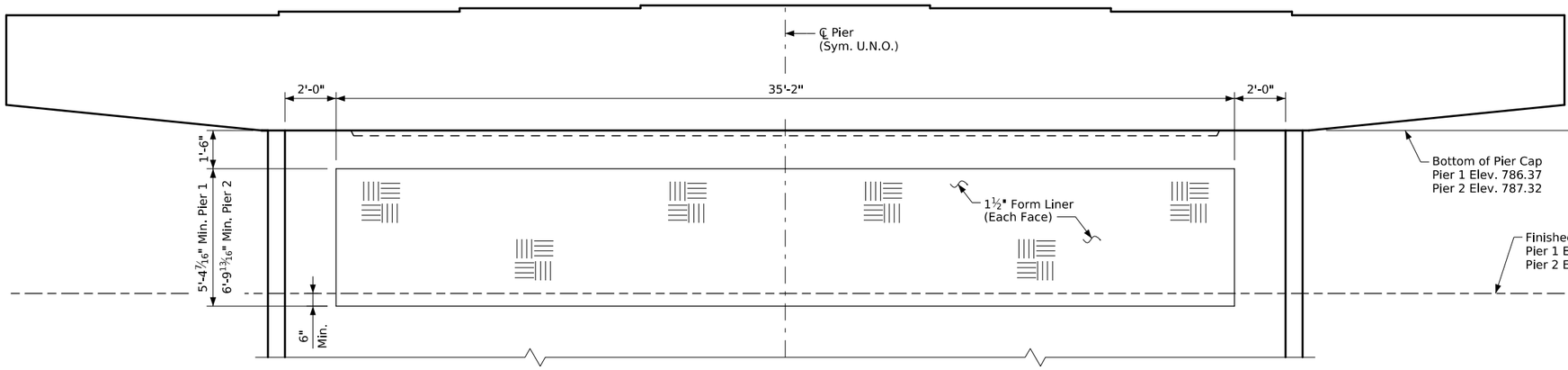
IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.6 of V.35 FHWA No. 505820

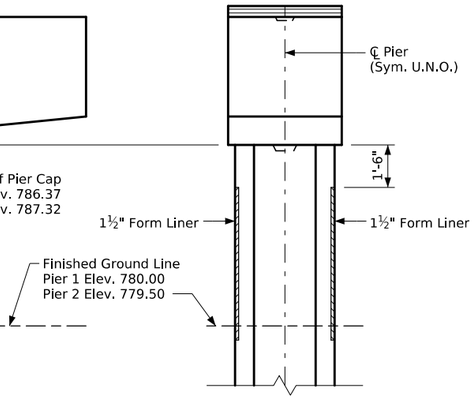
FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.6

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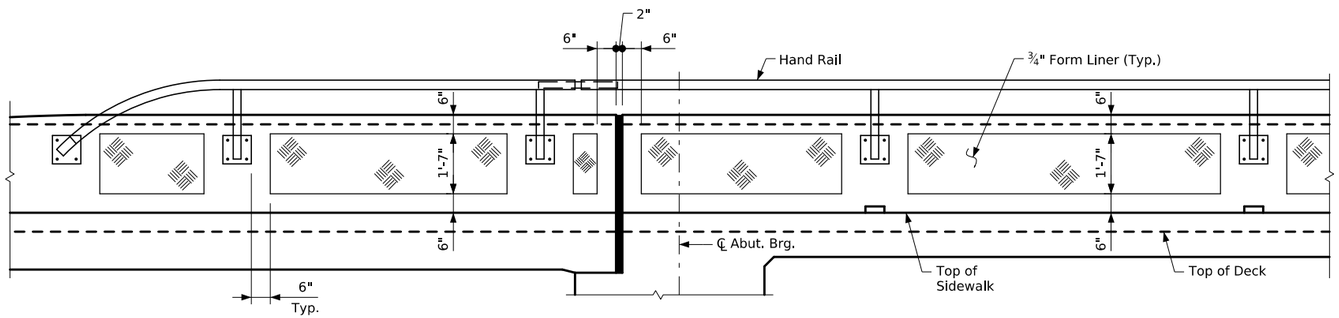
CONTROL POINT 23: NORTHING 3481884.65, EASTING 5434898.15, ELEV. 790.24, ½" IRON ROD WITH RED PLASTIC CAP.



Pier Elevation

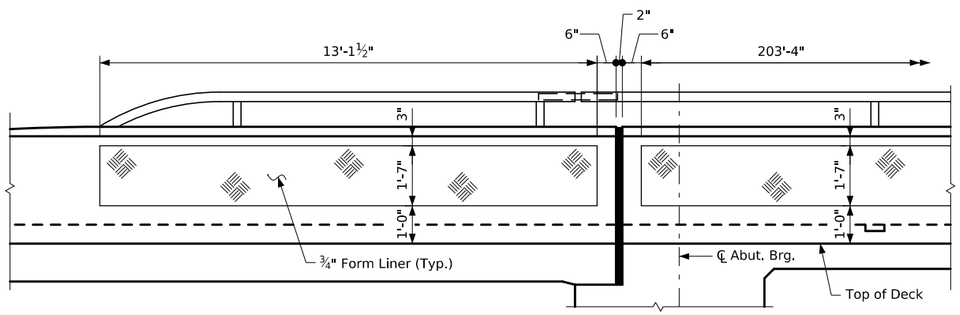


Pier End Elevation



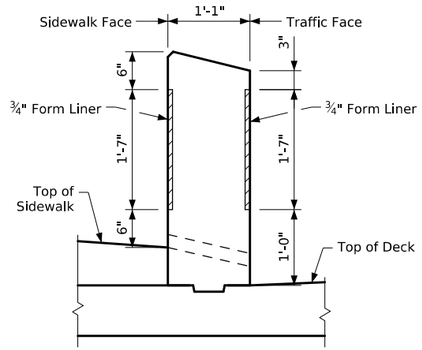
Separation Rail Elevation

(Looking at Sidewalk Face, Symmetrical About ℄ Bridge)



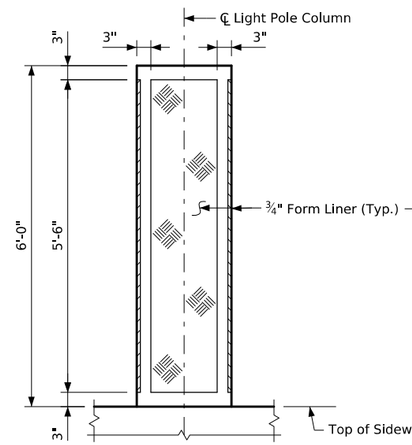
Separation Rail Elevation

(Looking at Traffic Face, Symmetrical About ℄ Bridge)



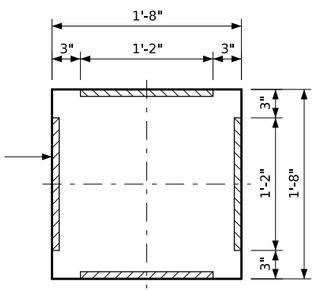
Separation Rail Section

(Hand Rail Not Shown)



Light Pole Column Elevation

(Typical All Sides)



Light Pole Column Section

Denotes 1½" Max. Depth Form Liner Area

Denotes ¾" Max. Depth Form Liner Area

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Aesthetic Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.7 of V.35 FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.7

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CONFIRMATORY BORING NOTES:

ALL CONFIRMATORY BORINGS SHALL BE IN ACCORDANCE WITH SECTION 2433, L, OF THE IOWA DOT STANDARD SPECIFICATIONS EXCEPT AS MODIFIED/SUPPLEMENTED BELOW.

CONFIRMATORY BORINGS SHALL BE ACCOMPLISHED USING EITHER 2-INCH (MINIMUM) DIAMETER MUD-ROTARY DRILL HOLES OR AIR-TRACK PROBES. AT LEAST ONE CONFIRMATORY BORING SHALL BE PERFORMED AT EACH DRILLED SHAFT LOCATION PRIOR TO THE DRILLED SHAFT FOUNDATION INSTALLATION. CONFIRMATORY BORINGS ARE REQUIRED AT EACH PRODUCTION SHAFT LOCATION (5 AT EACH ABUTMENT, 4 AT EACH PIER). SINCE BORING B-5 WAS OFFSET, ROCK CORING SHOULD BE DONE FOR AT LEAST ONE SHAFT AT THE NORTH ABUTMENT. THE TESTING LISTED IN CONFIRMATION BORING AND SAMPLING IN STANDARD SPECIFICATION 2433.03, L IS NOT REQUIRED FOR THESE CONFIRMATORY BORINGS.

1. THE CONFIRMATORY BORINGS SHALL BE INSTALLED TO A DEPTH 18 FEET BELOW THE PLANNED SHAFT TIP ELEVATIONS SHOWN IN THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL DEVELOP THE SCHEDULE SUCH THAT ALL CONFIRMATORY BORINGS CAN BE PERFORMED AS EARLY AS POSSIBLE AND THE RECORD OF THE CONFIRMATORY BORINGS SHALL BE SUBMITTED TO THE ENGINEER FOR EVALUATIONS AND ISSUANCE OF THE FINAL TIP ELEVATIONS. THE CONTRACTOR SHALL ALLOW THE ENGINEER 1 CALENDAR WEEK (7 DAYS) TO EVALUATE AND ISSUE THE FINAL TIP ELEVATIONS.
3. MUD ROTARY DRILL HOLES SHALL BE DRILLED IN ACCORDANCE WITH IOWA DOT DESIGN MANUAL GEOTECHNICAL DESIGN CHAPTER 200 AND 2001-1 APPENDIX A.
4. PROVIDE THE LOGS OF CONFIRMATORY BORINGS FOR ENGINEER TO DEVELOP FINAL DRILLED SHAFT TIP ELEVATIONS. LOGS SHALL DESCRIBE SURFACE ELEVATIONS, DEPTH BELOW GROUND SURFACE OF OBSERVATIONS, MATERIALS ENCOUNTERED, PENETRATION RATE, DRILLING PRESSURE, PRESENCE OF VOIDS, SOILS SEAMS, OR SOLUTION CHANNELS, AND OTHER OBSERVATIONS TO AID THE ENGINEER IN REVIEWING THE SUBSURFACE AT THE SHAFT LOCATION.
5. PROVIDE REVISED VERTICAL AND LATERAL GEOTECHNICAL DESIGN PARAMETERS FOR EACH CONFIRMATION BORING AS NECESSARY IN ORDER TO AID THE ENGINEER IN DEVELOPING FINAL ROCK SOCKET ELEVATIONS.
6. IF VOIDS, SOIL SEAMS, OR SOLUTION CHANNELS ARE DETECTED, THE ENGINEER SHALL BE CONTACTED FOR POTENTIAL DEEPER CONFIRMATORY BORING DEPTH.
7. MEASURE THE PROBES OR DRILL HOLES FROM THE EXISTING GROUND SURFACE ELEVATION TO THE BOTTOM OF THE HOLES, TO THE NEAREST 6", AS DETERMINED BY THE ENGINEER.
8. FILL PROBES AND DRILL HOLES WITH NEAT CEMENT GROUT.
9. DRILLED SHAFT INSTALLATION SHALL NOT PROCEED WITHOUT APPROVAL BY THE ENGINEER, AFTER THE ENGINEER HAS ISSUED FINAL TIP ELEVATIONS BASED ON RESULTS OF THE CONFIRMATORY BORINGS.
10. ALL COSTS ASSOCIATED WITH PERFORMING CONFIRMATORY BORINGS, AND RECORDING AND REPORTING OF DATA TO THE ENGINEER AS DESCRIBED ABOVE, SHALL BE INCIDENTAL TO THE BID ITEM "CONCRETE DRILLED SHAFT, 42 INCH DIAMETER". EQUIPMENT AND MATERIALS ASSOCIATED WITH THIS WORK MAY INCLUDE, BUT ARE NOT LIMITED TO: DRILLING AND EXCAVATION PROBE, FURNISHING AND PLACING OF GROUT BACKFILL, DISPOSAL OF EXCAVATED MATERIALS, AND WATER.

DRILLED SHAFT NOTES:

DRILLED SHAFT AXIAL RESISTANCE IS INTENDED TO BE DEVELOPED THROUGH SKIN FRICTION BETWEEN THE SHAFT AND THE LIMESTONE MATERIALS INDICATED IN THE SOIL BORING LOGS. MINIMUM ROCK SOCKET DEPTH INTO LIMESTONE MATERIALS SHALL BE AS SHOWN IN THESE PLANS. IF DIFFERING SITE CONDITIONS ARE ENCOUNTERED, ADJUSTMENT TO THE CONTRACT LENGTH MAY BE REQUIRED.

THE DRILLED SHAFTS FOR THIS PROJECT ARE DESIGNED TO RESIST DOWNDRAG FORCES CAUSED BY SETTLEMENT WITHIN THE COMPRESSIBLE SOIL LAYERS. THE DOWNDRAG FORCES APPLIED TO THE SHAFT ARE DEPENDENT ON THE SHAFT DIAMETER. THE CONTRACT LENGTH OF THE DRILLED SHAFTS IS BASED ON AN AS-CONSTRUCTED SHAFT DIAMETER NOT EXCEEDING 54 INCHES. IF THE EXCAVATION DIAMETER EXCEEDS THIS VALUE DURING CONSTRUCTION, THE ENGINEER MUST BE CONTACTED TO DETERMINE IF MODIFICATIONS TO THE DRILLED SHAFT DESIGN ARE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MODIFYING THE DRILLED SHAFT DESIGN TO ACCOUNT FOR SHAFT DIAMETER EXCEEDING THE MAXIMUM VALUE NOTED IN THE PLANS.

IF THE CONTRACT LENGTH OF THE DRILLED SHAFTS MUST BE INCREASED BY 6" OR LESS, THE REBAR CAGE SHALL REMAIN AT THE ELEVATION SHOWN IN THE PLANS. THE CLEAR SPACE FROM THE BOTTOM OF THE SHAFT MAY BE INCREASED FROM 3" UP TO A MAXIMUM OF 9". THE C.S.L. TUBES SHALL BE LOWERED TO MAINTAIN 3" CLEAR FROM THE BOTTOM OF THE SHAFT.

IF THE CONTRACT LENGTH OF THE DRILLED SHAFTS MUST BE INCREASED BY MORE THAN 6", THE REBAR CAGE MUST BE LENGTHENED BY PROVIDING ADDITIONAL LAPPED VERTICAL BARS AT THE DIRECTION OF THE ENGINEER. THE SPIRAL REINFORCING SHALL BE LENGTHENED TO EXTEND FROM TOP TO BOTTOM OF REBAR CAGE AT THE PITCH CALLED OUT IN THE PLANS. 1½ EXTRA TURNS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF THE CAGE. SPIRALS MAY BE LAP SPLICED AS DESCRIBED IN THE NOTES BELOW.

SHAFT SPIRAL REINFORCING IS TO BE NO. 5 BAR WITH 3'-0 DIAMETER, 12" PITCH WITH 4 EQUALLY SPACED L 7/8×7/8×1/8 SPACERS PUNCHED TO HOLD SPIRALS. SPIRALS ARE TO HAVE 1½ EXTRA TURNS AT TOP AND BOTTOM OF THE SHAFTS.

THE SPIRAL REINFORCING MAY BE SPLICED BY LAPPING 2'-8. THE LENGTH OF THE SPIRAL SHOWN DOES NOT INCLUDE THE LAPPED LENGTH OF THE SPLICES. THE COST OF THE LAPS AT SPLICES IS TO BE INCLUDED IN THE PRICE BID FOR OTHER REINFORCEMENT.

TIES SPACED AT 12" CENTERS MAY BE SUBSTITUTED FOR THE RESPECTIVE SPIRAL REINFORCEMENT. TIES SHALL MATCH THE BAR SIZE OF THE SPIRAL SHOWN IN THE DETAILS. PAYMENT WILL BE BASED ON THE WEIGHT OF SPIRAL REINFORCEMENT. NO ADJUSTMENTS IN REINFORCING STEEL PAY WEIGHT WILL BE ALLOWED. SEE BENT BAR DETAIL ON THIS SHEET FOR SPLICE LAP LENGTH.

ARTICLE 4151.03, A, 2, OF THE STANDARD SPECIFICATIONS SHALL NOT BE PERMITTED FOR SPIRAL REINFORCEMENT.

THE ROCK SOCKET ELEVATIONS SHOWN ARE BASED ON THE INFORMATION PROVIDED BY THE BORING LOGS.

THE ACTUAL LENGTH OF DRILLED SHAFT INSTALLED WILL BE DETERMINED AT THE TIME OF CONSTRUCTION BY THE ENGINEER.

THE LENGTHS AND WEIGHTS FOR SHAFT REINFORCING STEEL IS BASED ON THE ELEVATION OF ROCK SURFACE AS DESCRIBED ABOVE. BAR LENGTHS SHALL BE FIELD CUT AS NECESSARY AS DIRECTED BY THE ENGINEER.

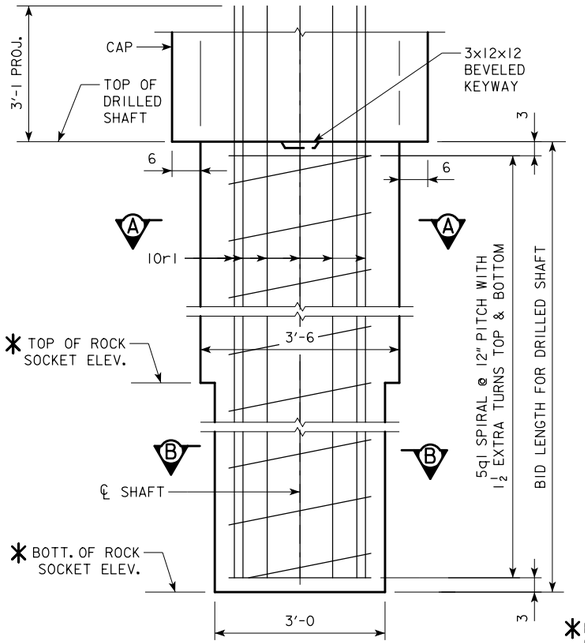
TEMPORARY CASINGS ARE REQUIRED FOR THE DRILLED SHAFTS ABOVE THE TOP OF ROCK SOCKET. CASINGS ARE REQUIRED TO PROTECT AGAINST CAVE-IN, SUBSIDENCE, AND DISPLACEMENTS OF SURROUNDING GROUND. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL DRILLED SHAFT TEMPORARY CASING AS NEEDED FOR THIS PROJECT. CASINGS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE DRILLED SHAFT 42 IN. DIAMETER". TEMPORARY CASING SHALL NOT EXTEND MORE THAN ONE FOOT INTO ROCK.

DRILLED SHAFT NOTES:

ALL DRILLED SHAFT CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 2433 OF THE IOWA DOT STANDARD SPECIFICATIONS EXCEPT AS MODIFIED/SUPPLEMENTED BELOW.

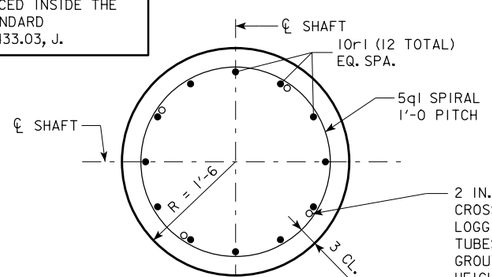
1. ALL DRILLED SHAFT INSTALLATIONS SHALL BE INSPECTED BY A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER HIRED BY THE OWNER. THE CONTRACTOR WILL COORDINATE DRILLED SHAFT CONSTRUCTION WITH THE ENGINEER AND ALLOW ACCESS FOR THE INSPECTION. THE GEOTECHNICAL ENGINEER SHALL ENSURE THAT THE DRILLED SHAFTS ARE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND PLANS. A QUALIFIED GEOTECHNICAL INSPECTOR WORKING UNDER THE DIRECTION OF A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER MAY INSPECT THE SHAFT INSTALLATION IN LIEU OF THE AFOREMENTIONED ENGINEER.
2. EXCAVATE TO THE BOTTOM OF THE SHAFT CAP ELEVATION PRIOR TO INSTALLATION OF THE DRILLED SHAFTS. ANY DRILLED LENGTH ABOVE THIS ELEVATION IS CONSIDERED ANCILLARY AND WILL NOT BE MEASURED FOR PAYMENT.
3. ALL SHAFTS SHALL BEAR IN COMPETENT ROCK. THE IDENTIFICATION AND PRESENCE OF COMPETENT ROCK SHALL BE FIELD VERIFIED DURING THE INSTALLATION OF THE DRILLED SHAFTS.
4. DRILLED SHAFT ROCK SOCKETS SHALL BE BRUSHED BUT SHALL NOT BE GROOVED.
5. IN THE CASE OF TOP-HOLE INSPECTION THE BOTTOM OF THE SHAFT SHALL BE INSPECTED BY WEIGHTED TAPE USING AT LEAST SIX SEPARATE SOUNDINGS. THE MEASURED THICKNESS OF THE SEDIMENTS SHOULD MEET THE REQUIREMENTS GIVEN IN ARTICLE 2433.03, F OF THE STANDARD SPECIFICATIONS.
6. THE TERMINATION ELEVATIONS OF THE DRILLED SHAFTS WILL BE DETERMINED BY THE ENGINEER AND SHALL HAVE THE MINIMUM EMBEDMENT INTO COMPETENT ROCK AS INDICATED BY THE CONFIRMATORY BORINGS AND SPECIFIED BY THE ENGINEER, AND VERIFIED DURING SHAFT INSTALLATION, EXCLUDING THE THICKNESS OF VOIDS AND SOIL INFILL ZONES.
7. ALL DRILLED SHAFTS SHALL HAVE CSL TUBES AS SHOWN, INSTALLED AND TESTED IN ACCORDANCE WITH ARTICLE 2433.03, J OF THE STANDARD SPECIFICATIONS. CSL TUBES SHALL BE PLACED AS SHOWN, SUCH THAT THEY ARE CENTERED BETWEEN ADJACENT LONGITUDINAL REINFORCEMENT AND IN A SYMMETRICAL PATTERN SO THAT EACH TUBE IS SPACED THE MAXIMUM DISTANCE POSSIBLE FROM ADJACENT TUBES.
8. CONCRETE PLACEMENT BY PUMP IS NOT PERMITTED WITHOUT THE USE OF TREMIE PIPE.
9. NO AXIAL OR LATERAL LOAD TESTS ARE REQUIRED.
10. A DEMONSTRATION (NONPRODUCTION) DRILLED SHAFT SHALL BE CONSTRUCTED TO THE DIMENSION(S) OF THE PRODUCTION DRILLED SHAFT, IF REQUIRED AND AT THE LOCATION DIRECTED BY THE ENGINEER.
11. THE USE OF TEMPORARY STEEL CASING AND/OR SLURRY DRILLING PROCEDURES WILL BE REQUIRED FOR CONSTRUCTION OF THE DRILLED SHAFTS TO PREVENT COLLAPSE OF THE SIDEWALLS AND/OR TO CONTROL GROUNDWATER SEEPAGE. SIGNIFICANT SEEPAGE COULD OCCUR IN CASE OF EXCAVATIONS PENETRATING INTO WATER-BEARING SANDY SOIL AND/OR HIGHLY BROKEN BEDROCK LAYERS. DEPENDING ON GROUNDWATER LEVELS AT THE TIME OF SHAFT INSTALLATION AS WELL AS THE PERMEABILITY OF THE ROCK SURROUNDING THE ROCK SOCKET, A SLURRY DRILLING PROCEDURE MIGHT BE REQUIRED TO MAINTAIN SUFFICIENT HEAD IN THE TEMPORARY CASING TO REDUCE INFLOW OF WATER INTO THE FRESH CONCRETE.
12. TEMPORARY COFFERDAMS AND WELL POINTS ARE ANTICIPATED TO BE REQUIRED FOR BRIDGE CONSTRUCTION DEWATERING. THE CONTRACTOR IS TO DEVELOP AND SUBMIT A DEWATERING PLAN TO THE ENGINEER PRIOR TO PERFORMING THE EXCAVATIONS FOR ABUTMENT AND DRILLED SHAFT CAP CONSTRUCTION.
13. DUE TO THE POTENTIAL PRESENCE OF KARST FEATURES,
    - -NO PERMANENT CASING IS ALLOWED.
    - -SHAFTS MAY NEED TO BE LENGTHENED.
    - -VOIDS IN THE ROCK MAY NEED TO BE GROUTED. ALL COSTS ASSOCIATED WITH GROUTING SHALL BE INCIDENTAL TO THE BID ITEM "CONCRETE DRILLED SHAFT, 42 INCH DIAMETER".

DUE TO THE POTENTIAL OF REVISED DRILLED SHAFT LENGTHS, THE CONTRACTOR IS ADVISED TO WAIT TO ORDER 10r1 BARS AND 5q1 SPIRALS UNTIL THE CONFIRMATORY BORINGS ARE COMPLETED AND REVISED SHAFT ELEVATIONS ARE PROVIDED BY THE ENGINEER. IF MATERIAL IS ORDERED PRIOR TO ISSUANCE OF REVISED SHAFT ELEVATIONS, THE LENGTH OF LAPS REQUIRED FOR INCREASED SHAFT LENGTH WILL NOT BE INCLUDED IN THE MEASUREMENT FOR PAYMENT OF ADDITIONAL REINFORCING REQUIRED.

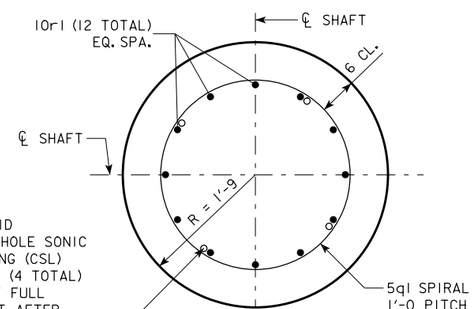


DRILLED SHAFT DETAIL

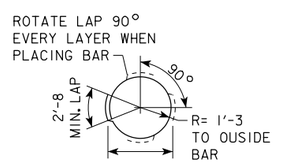
PROVIDE CROSSHOLE SONIC LOG (CSL) TESTING, WITH 4 PIPES EQUALLY SPACED INSIDE THE REINFORCING CAGE, PER STANDARD SPECIFICATIONS SECTION 2433.03, J.



SECTION B-B



SECTION A-A



5q1 ALTERNATE SHAFT TIE

✱FINAL TOP AND BOTTOM OF ROCK SOCKET ELEVATION WILL BE DETERMINED FOR EACH DRILLED SHAFT BY THE ENGINEER.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

Drilled Shaft Details

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

Linn County

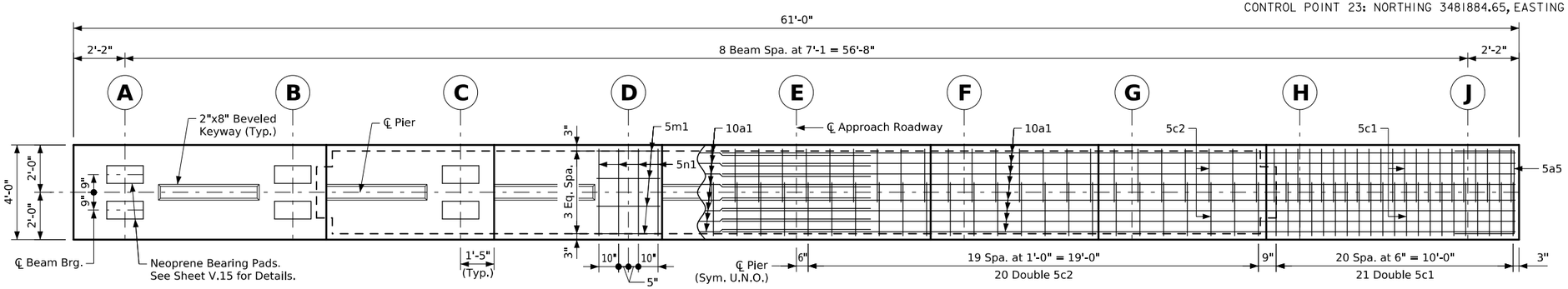
IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.8 of V.35 — FHWA No. 505820

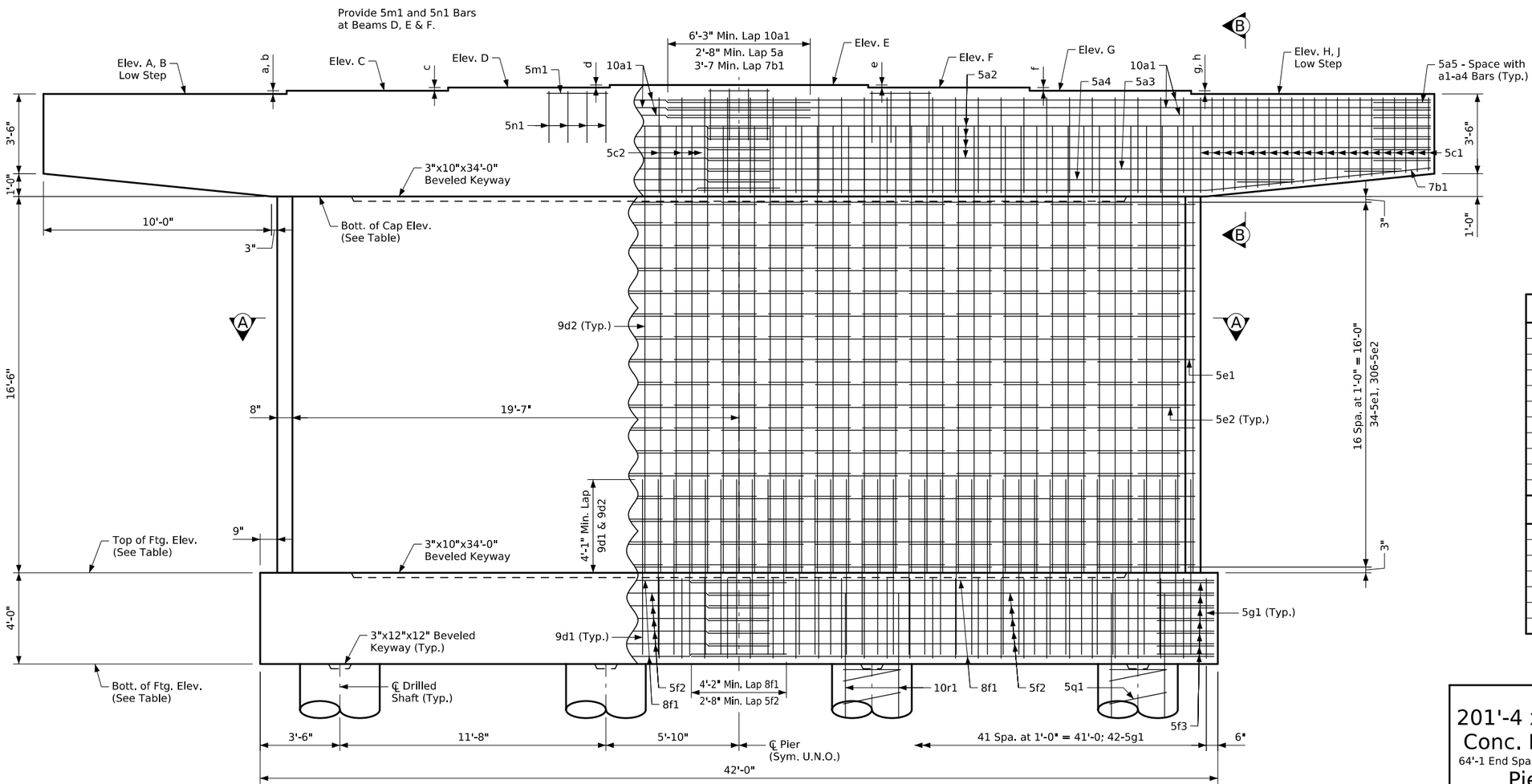
FILE NO.	ENGLISH	DESIGN TEAM SHUCK·BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.8

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CONTROL POINT 23: NORTHING 3481884.65, EASTING 5434898.15, ELEV. 790.24, ½" IRON ROD WITH RED PLASTIC CAP.



Pier Cap Plan



Pier Elevation

(Looking North)

Notes:
See Sheet V.10 for pier notes, sections A-A and B-B, end elevation, and quantities.

See Sheets V.6 and V.7 for pier aesthetic notes and details.

Table of Pier Elevations

Point	Pier 1	Pier 2
Elev. A, B	790.87	791.82
Elev. C	791.01	791.96
Elev. D	791.15	792.10
Elev. E	791.26	792.21
Elev. F	791.15	792.10
Elev. G	791.01	791.96
Elev. H, J	790.87	791.82
Bottom of Cap	786.37	787.32
Top of Footing	769.87	770.82
Bottom of Footing	765.87	766.82

Table of Pier Steps

Step	Pier 1	Pier 2
a, b	1 11/16"	1 11/16"
c	1 11/16"	1 11/16"
d	1 5/16"	1 5/16"
e	1 5/16"	1 5/16"
f	1 11/16"	1 11/16"
g, h	1 11/16"	1 11/16"

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Pier Details - Plan & Elevation

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

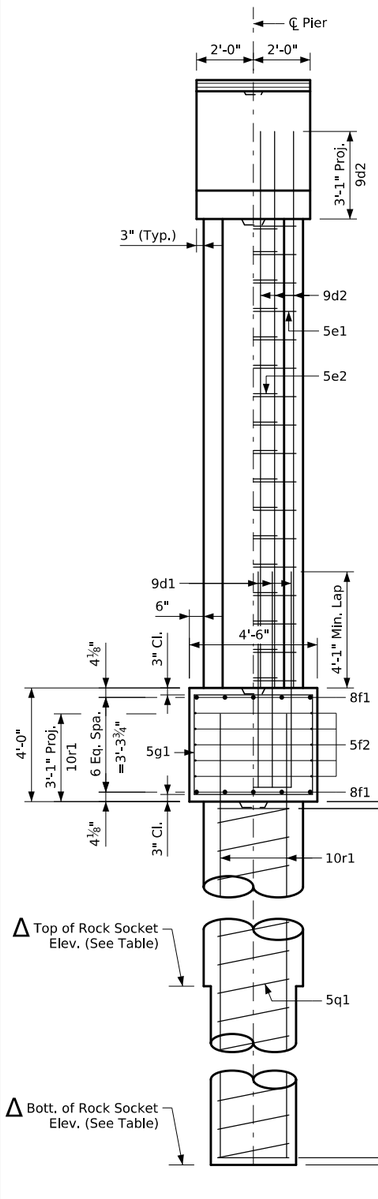
Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.9 of V.35 FHWA No. 505820

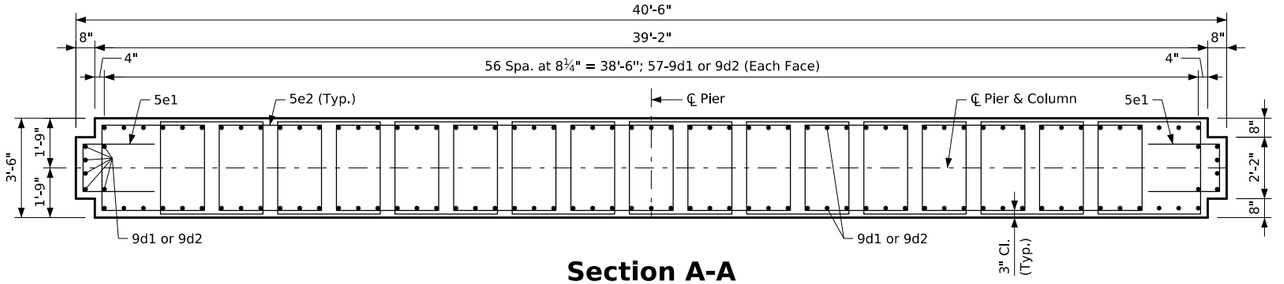
FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.9

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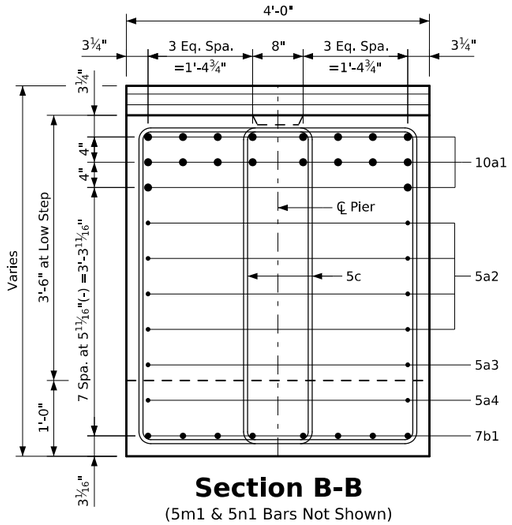


End Elevation

Δ Final top and bottom of rock socket elevation will be determined for each drilled shaft by the engineer. See Sheet V.8 for confirmatory boring notes.



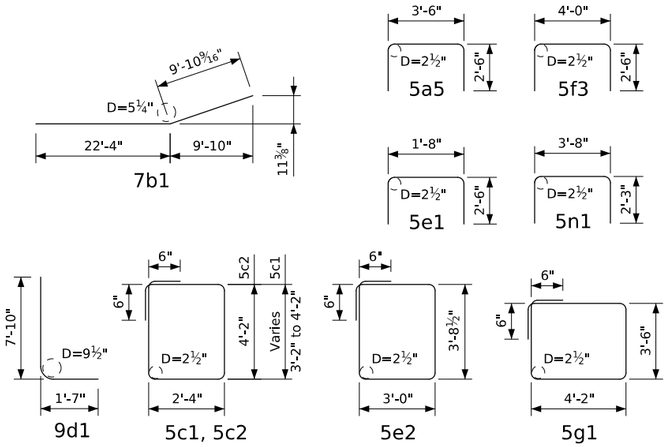
Section A-A



Section B-B

(5m1 & 5n1 Bars Not Shown)

Bent Bar Details



Note:
All dimensions are out to out. D = Pin Dia.

Pier Notes:

All reinforcing steel is to be securely wired in place before concrete is placed.

All exposed corners 90° or sharper are to be filleted with a ¾" dressed and beveled strip.

Minimum clear distance from face of concrete to near reinforcing bar is to be 2" unless otherwise noted or shown.

The 9d1 footing to column dowels are to be in place before footing concrete is placed.

Forms for pier caps on all piers may be removed with the approval of the engineer when the following two conditions have been met:
- Pier cap concrete has been in place for a minimum of 2 calendar days excluding days that the concrete surface is subjected to temperatures at or below 40°F and
- The pier cap concrete compressive strength is at least 2500 psi.

Minimum concrete compressive strength of 2500 psi shall be verified by flexural strength according to Materials I.M. 316 with a minimum flexural strength of 450 psi or by the maturity method according to Materials I.M. 383. Curing of pier cap concrete shall be in accordance with the Standard Specifications. Pier cap concrete shall be subjected to exterior loads in accordance with Article 2403.03, N, 2, of the Standard Specifications.

See Sheet V.8 for additional drilled shaft and rock socket notes and details.

See Sheets V.6 and V.7 for pier aesthetic notes and details.

Pier Drilled Shaft Data

Point	Pier 1	Pier 2
Bottom of Footing Elev.	765.87	766.82
Top of Rock Socket Elev.	761.50	766.82
Bottom of Rock Socket Elev.	745.87	753.82
Drilled Shaft Length (LF)	20.00	13.00
Rock Socket Length (LF)	15.63	13.00

Non - Coated Reinforcing Steel - One Pier

Bar	Location	Shape	No.	Length	Weight
10a1	Cap, Longitudinal, Top	——	36	33'-6"	5189
5a2	Cap, Longitudinal, Side	——	16	31'-8"	528
5a3	Cap, Longitudinal, Side	——	4	30'-6"	127
5a4	Cap, Longitudinal, Side	——	4	25'-9"	107
5a5	Cap, Hairpin, End	⌐	18	8'-6"	160
7b1	Cap, Longitudinal, Bott.	⌒	16	32'-3"	1055
5c1	Cap, Hoops, End	□	84	Varies	1139
5c2	Cap, Hoops	□	80	14'-0"	1168
9d1	Column, Vertical, Dowel	L	126	9'-5"	4034
9d2	Column, Vertical	——	126	19'-7"	8390
5e1	Column, End	⌐	34	6'-8"	236
5e2	Column, Hoops	□	306	14'-5"	4601
8f1	Footing, Longitudinal, Top & Bott.	——	20	22'-11"	1224
5f2	Footing, Longitudinal, Side	——	20	22'-2"	462
5f3	Footing, Hairpin, End	⌐	14	9'-0"	131
5g1	Footing, Hoops	□	42	16'-4"	715
5m1	Cap Steps, Longitudinal	——	12	2'-8"	33
5n1	Cap Steps, Transverse	⌐	12	8'-2"	102
	Non-Coated Reinforcing Steel - Total Weight (lbs.)				29,401

Non - Coated Reinforcing Steel - Pier 1 - Drilled Shafts

Bar	Location	Shape	No.	Length	Weight
10r1	Shaft, Vertical	——	48	22'-10"	4716
5q1	Shaft, Spiral	⌀	4	174'-4"	727
	Spiral Spacers, L⅞" x ⅞" x ⅛" x 0.70	——	16	19'-6"	218
	Non-Coated Reinforcing Steel - Total Weight (lbs.)				5661

Non - Coated Reinforcing Steel - Pier 2 - Drilled Shafts

Bar	Location	Shape	No.	Length	Weight
10r1	Shaft, Vertical	——	48	15'-10"	3270
5q1	Shaft, Spiral	⌀	4	120'-0"	501
	Spiral Spacers, L⅞" x ⅞" x ⅛" x 0.70	——	16	12'-6"	140
	Non-Coated Reinforcing Steel - Total Weight (lbs.)				3911

Concrete Placement Quantities One Pier

Location	Total
Cap	40.7
Column	85.5
Footing	28.0
Structural Concrete (Bridge) - Total (Cu. Yds.)	154.2

Note:
Concrete and Reinforcing Steel Quantities are included on the Summary Quantities Sheet.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

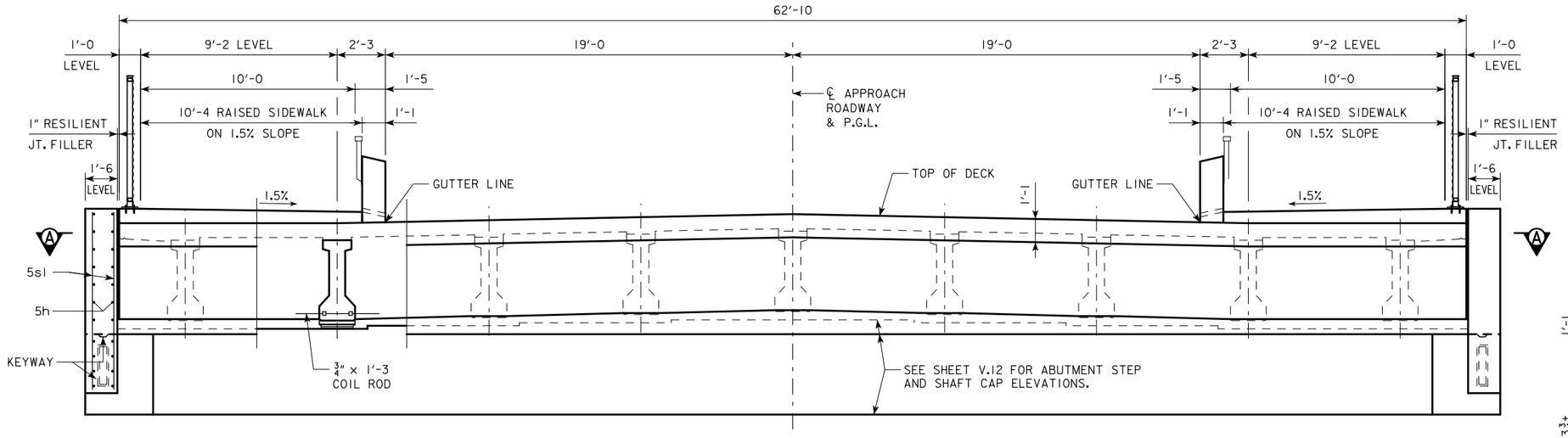
Pier Details

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

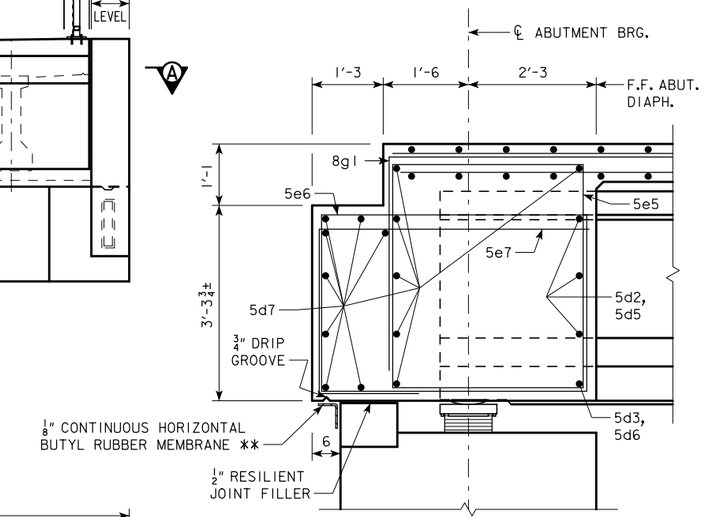
Linn County

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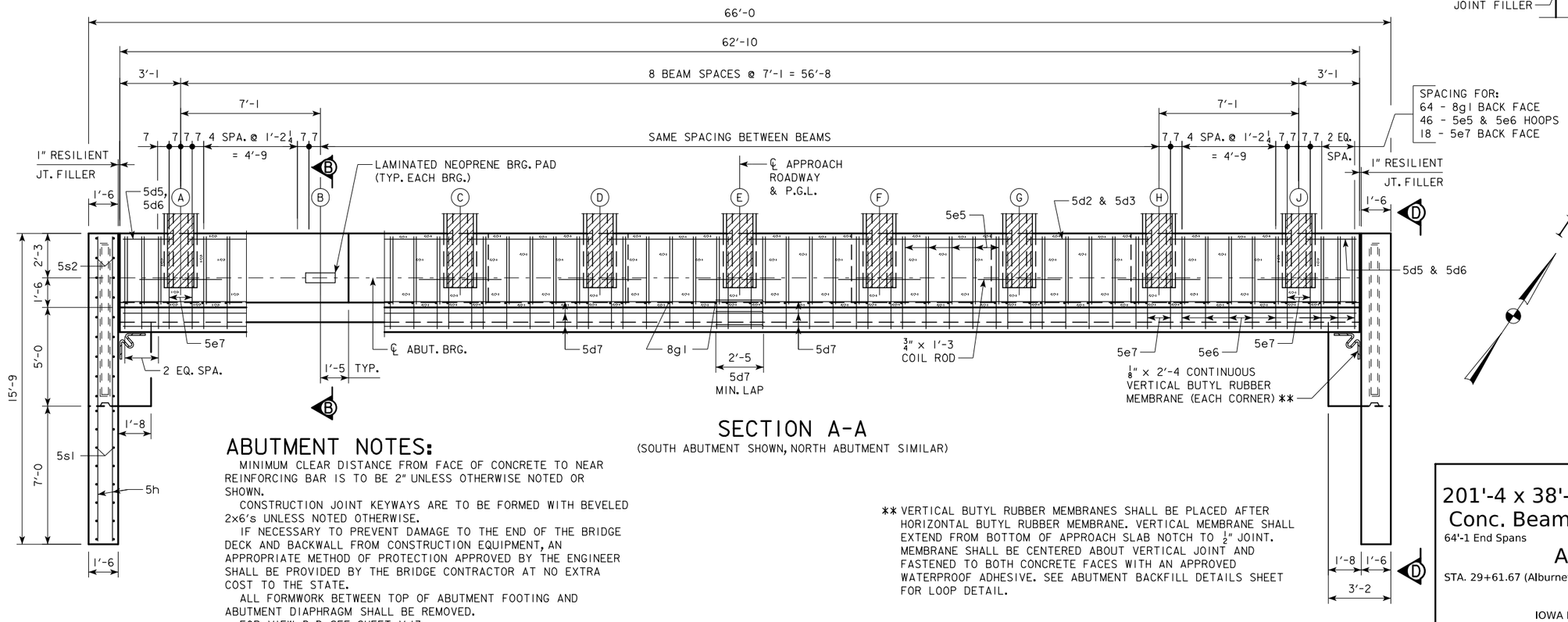
Design Sheet No. V.10 of V.35 — FHWA No. 505820



REAR ELEVATION AT ABUTMENT



SECTION B-B



SECTION A-A

(SOUTH ABUTMENT SHOWN, NORTH ABUTMENT SIMILAR)

ABUTMENT NOTES:

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

CONSTRUCTION JOINT KEYWAYS ARE TO BE FORMED WITH BEVELED 2x6's UNLESS NOTED OTHERWISE.

IF NECESSARY TO PREVENT DAMAGE TO THE END OF THE BRIDGE DECK AND BACKWALL FROM CONSTRUCTION EQUIPMENT, AN APPROPRIATE METHOD OF PROTECTION APPROVED BY THE ENGINEER SHALL BE PROVIDED BY THE BRIDGE CONTRACTOR AT NO EXTRA COST TO THE STATE.

ALL FORMWORK BETWEEN TOP OF ABUTMENT FOOTING AND ABUTMENT DIAPHRAGM SHALL BE REMOVED.

FOR VIEW D-D, SEE SHEET V.13.

** VERTICAL BUTYL RUBBER MEMBRANES SHALL BE PLACED AFTER HORIZONTAL BUTYL RUBBER MEMBRANE. VERTICAL MEMBRANE SHALL EXTEND FROM BOTTOM OF APPROACH SLAB NOTCH TO ½" JOINT. MEMBRANE SHALL BE CENTERED ABOUT VERTICAL JOINT AND FASTENED TO BOTH CONCRETE FACES WITH AN APPROVED WATERPROOF ADHESIVE. SEE ABUTMENT BACKFILL DETAILS SHEET FOR LOOP DETAIL.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

Abutment Details

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

Linn County

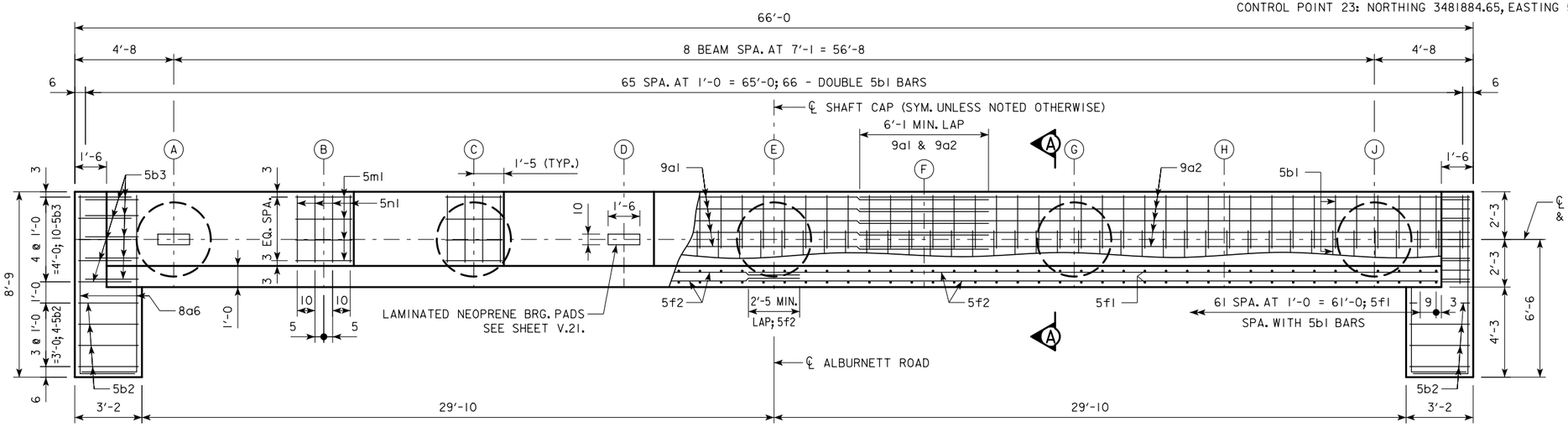
IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.11 of V.35 — FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.11

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CONTROL POINT 23: NORTHING 3481884.65, EASTING 5434898.15, ELEV. 790.24, ½" IRON ROD WITH RED PLASTIC CAP.



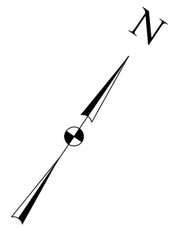
ABUTMENT ELEVATIONS & DRILLED SHAFT DATA

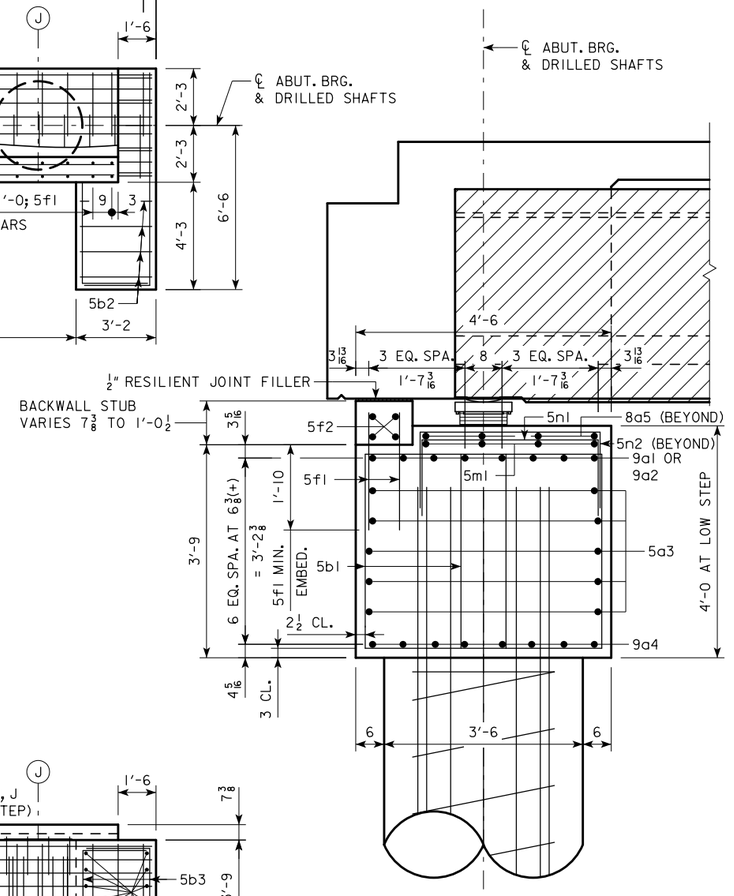
POINT	SOUTH ABUT.	NORTH ABUT.
ELEV. A, B	789.84	792.48
ELEV. C	789.98	792.62
ELEV. D	790.12	792.76
ELEV. E	790.23	792.87
ELEV. F	790.12	792.76
ELEV. G	789.98	792.62
ELEV. H, J	789.84	792.48
BOTT. BACKWALL STUB ELEV.	789.59	792.23
BOTT. OF CAP ELEV.	785.84	788.48
TOP OF ROCK SOCKET ELEV.	763.00	780.00
BOTT. OF ROCK SOCKET ELEV.	755.84	768.48
DRILLED SHAFT LENGTH (LF)	30.00	20.00
ROCK SOCKET LENGTH (LF)	7.16	11.52

ABUTMENT CAP PLAN

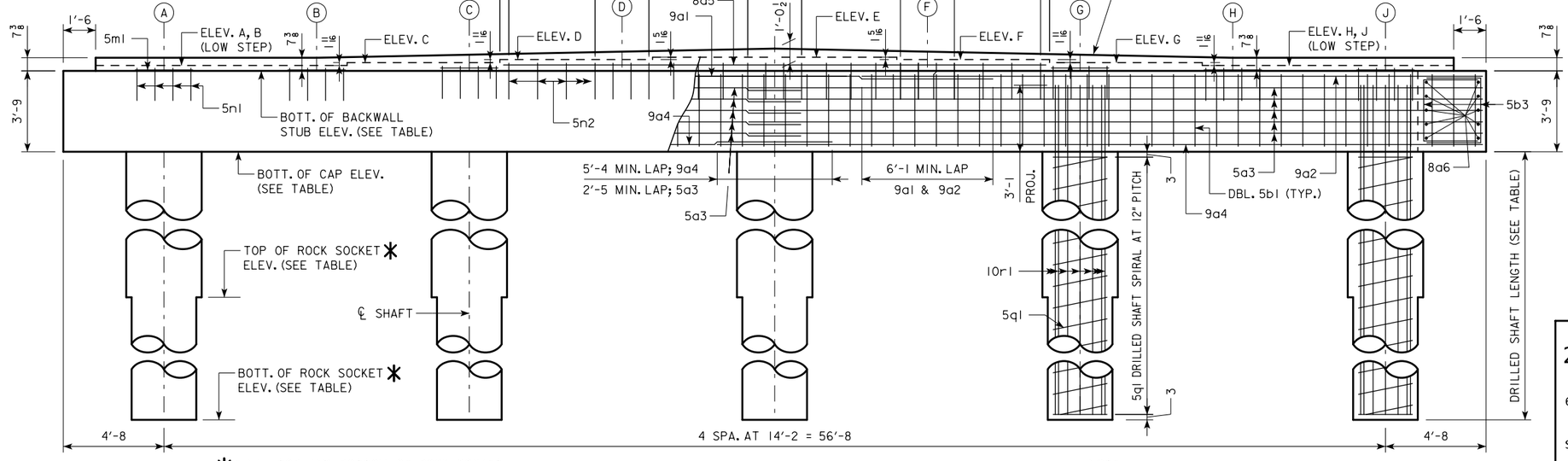
(SOUTH ABUT. SHOWN, NORTH ABUT. SIMILAR)

NOTE:
ABUTMENT WING AND WING EXTENSION REINFORCING NOT SHOWN FOR CLARITY.





SECTION A-A



✱FINAL TOP AND BOTTOM OF ROCK SOCKET ELEVATION WILL BE DETERMINED FOR EACH DRILLED SHAFT BY THE ENGINEER.

ABUTMENT CAP ELEVATION

(SOUTH ABUT. SHOWN, NORTH ABUT. SIMILAR; LOOKING NORTH)

NOTE:
SEE SHEET V.8 FOR ADDITIONAL DRILLED SHAFT AND ROCK SOCKET NOTES AND DETAILS.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

Abutment Cap Details

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

Linn County

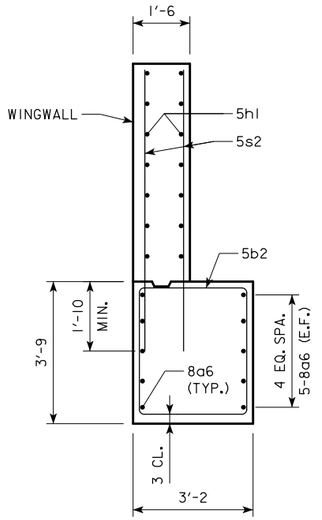
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Design Sheet No. V.12 of V.35 — FHWA No. 505820

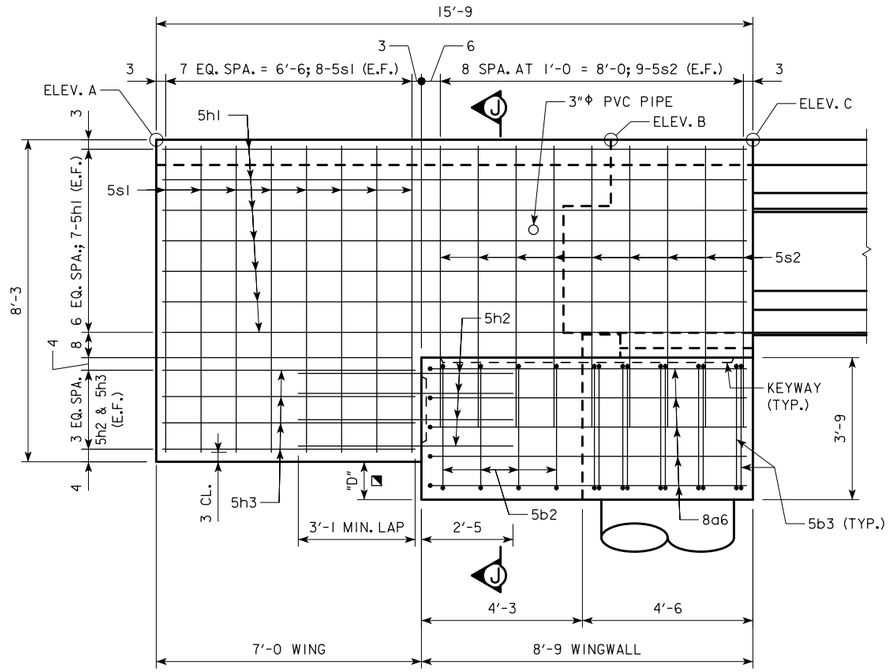
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CONTROL POINT 23: NORTHING 3481884.65, EASTING 5434898.15, ELEV. 790.24, ½" IRON ROD WITH RED PLASTIC CAP.



SECTION J-J



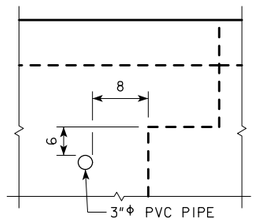
VIEW D-D

(CAP BARS a1-a4 AND 5b1 NOT SHOWN FOR CLARITY.)

NOTES:
FOR LOCATION OF VIEW D-D, SEE SHEET V.11.
◪ 1'-0 MIN.

TABLE OF ELEVATIONS

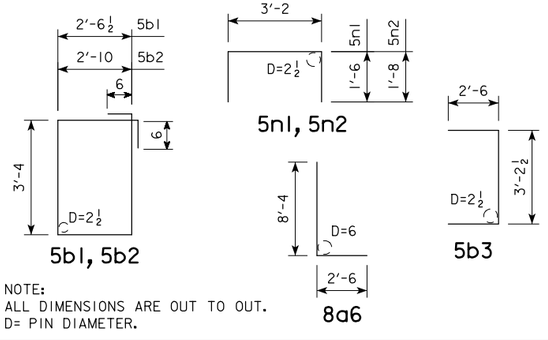
LOCATION	DIM. "D"	ELEV. A	ELEV. B	ELEV. C
SOUTHWEST	1'-0 5/8	795.14	795.30	795.35
SOUTHEAST	1'-0 5/8	795.14	795.30	795.35
NORTHWEST	1'-5	798.14	797.98	797.93
NORTHEAST	1'-5	798.14	797.98	797.93



PVC PIPE LOCATION

NOTE:
PLUG 3" Φ PVC PIPE WITH EXPANDING FOAM PRIOR TO BACKFILLING BEHIND ABUTMENTS.

BENT BAR DETAILS



NOTE:
ALL DIMENSIONS ARE OUT TO OUT.
D= PIN DIAMETER.

EPOXY COATED REINFORCING STEEL - ONE ABUTMENT

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
9a1	CAP, LONGITUDINAL, TOP	——	8	43'-0	1170
9a2	CAP, LONGITUDINAL, TOP	——	8	28'-10	784
5a3	CAP, LONGITUDINAL, SIDE	——	20	34'-1	711
9a4	CAP, LONGITUDINAL, BOTTOM	——	16	35'-6	1931
8a5	CAP STEP, LONGITUDINAL, TOP	——	4	25'-2	269
8a6	CAP, EXTENSION, LONGITUDINAL	L	20	10'-10	579
5b1	CAP, HOOPS	□	132	12'-9	1755
5b2	CAP, EXTENSION, HOOPS	□	8	13'-4	111
5b3	CAP, ENDS	⌐¬	20	8'-3	172
5f1	BACKWALL STUB, VERTICAL	——	128	2'-9	367
5f2	BACKWALL STUB, LONGITUDINAL	——	8	32'-7	272
5h1	WINGWALL, HORIZONTAL	——	28	15'-5	450
5h2	CAP, EXTENSION, HORIZONTAL	——	16	5'-8	95
5h3	WING HORIZONTAL	——	16	6'-8	111
5m1	CAP STEPS, LONGITUDINAL	——	24	2'-8	67
5n1	CAP STEPS, TRANSVERSE	⌐¬	24	6'-2	154
5n2	CAP STEPS, TRANSVERSE	⌐¬	24	6'-6	163
5s1	WING, VERTICAL	——	32	7'-10	261
5s2	WINGWALL, VERTICAL	——	36	7'-7	285
	EPOXY COATED REINFORCING STEEL - TOTAL WEIGHT (LBS.)				9707

NON-COATED REINFORCING STEEL - SOUTH ABUTMENT - DRILLED SHAFTS

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
10r1	SHAFT, VERTICAL	——	60	32'-10	8477
5q1	SHAFT, SPIRAL	⌀	5	251'-10	1313
	SPIRAL SPACERS, L 7/8 × 7/8 × 1/8 × 0.70	——	20	29'-6	413
	NON-COATED REINFORCING STEEL - TOTAL WEIGHT (LBS.)				10,203

NON-COATED REINFORCING STEEL - NORTH ABUTMENT - DRILLED SHAFTS

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
10r1	SHAFT, VERTICAL	——	60	22'-10	5895
5q1	SHAFT, SPIRAL	⌀	5	174'-4	909
	SPIRAL SPACERS, L 7/8 × 7/8 × 1/8 × 0.70	——	20	19'-6	273
	NON-COATED REINFORCING STEEL - TOTAL WEIGHT (LBS.)				7077

CONCRETE PLACEMENT QUANTITIES

LOCATION	SOUTH ABUT.	NORTH ABUT.
CAP	48.4	48.4
BACKWALL STUB	1.8	1.8
STRUCTURAL CONCRETE (BRIDGE) - TOTAL (C.Y.)	50.2	50.2
WEST WING & WINGWALL	6.0	6.0
EAST WING & WINGWALL	6.0	6.0
HIGH PERFORMANCE CONCRETE - TOTAL (C.Y.)	12.0	12.0

NOTE:
CONCRETE AND REINFORCING STEEL QUANTITIES ARE INCLUDED ON THE SUMMARY QUANTITIES SHEET.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

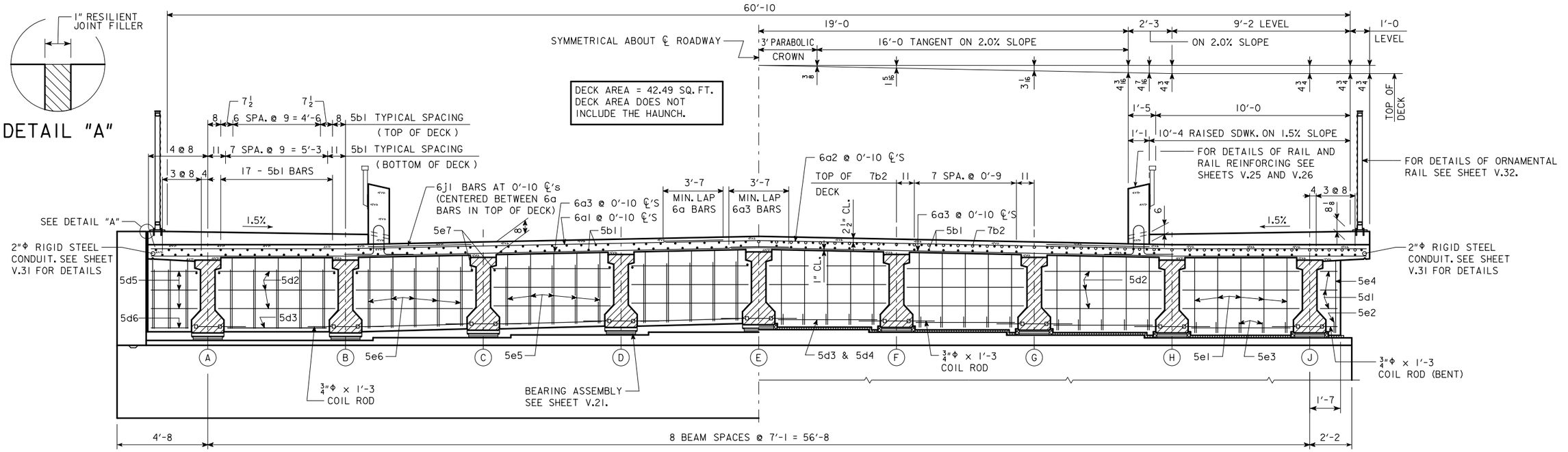
Abutment Wing Details & Quantities

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.13 of V.35 FHWA No. 505820

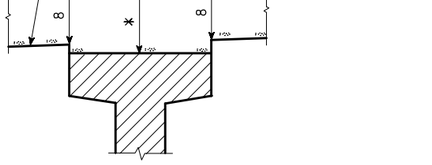


HALF SECTION NEAR ABUTMENT

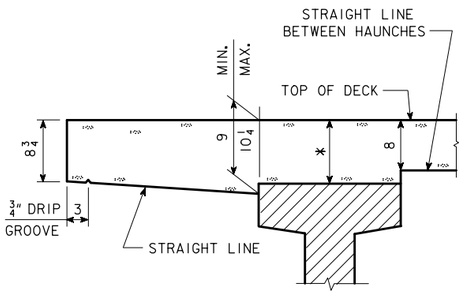
(DRILLED SHAFTS NOT SHOWN)

HALF SECTION NEAR PIER

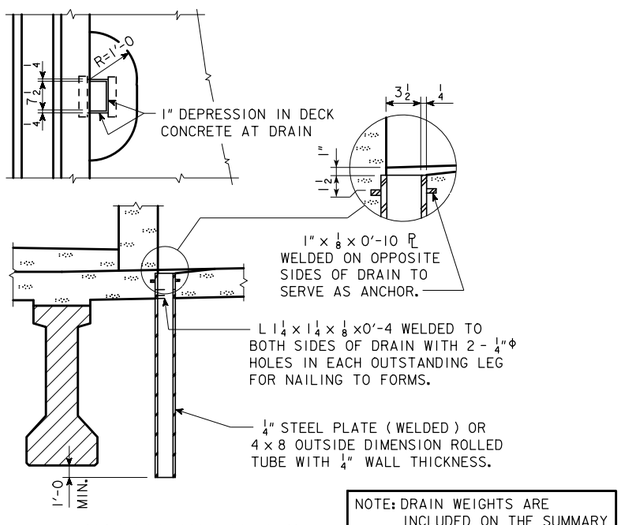
NOTE:
FOR DETAILS OF INTERMEDIATE DIAPHRAGMS SEE SHEET V.24.
SEE SHEET V.29 FOR DETAILS OF RAISED SIDEWALK REINFORCING.



INTERIOR BEAMS



EXTERIOR BEAMS



NOTE: DRAIN WEIGHTS ARE INCLUDED ON THE SUMMARY QUANTITIES SHEET.

DRAIN DETAILS

NOTE :
DRAINS ARE TO BE GALVANIZED. 12 DRAINS REQUIRED. SEE "SITUATION PLAN" ON SHEET V.4 FOR LOCATION.
WEIGHT OF DRAINS IS INCLUDED IN THE QUANTITY FOR "STRUCTURAL STEEL". WEIGHT IS BASED ON ROLLED TUBE.

DATA FOR ONE DRAIN	
BEAM SIZE	C
WT. LBS.	106
LENGTH FT.	5'-5 3/4

TYPICAL DECK AND HAUNCH DETAIL

* FOR DECK THICKNESS OVER BEAMS SEE "DECK THICKNESS DETAILS" ON SHEET V.19.

SUPERSTRUCTURE NOTES:

THE BRIDGE DECK AS SHOWN INCLUDES 1/2" INTEGRAL WEARING SURFACE.

THE PIER AND ABUTMENT DIAPHRAGM CONCRETE IS TO BE PLACED MONOLITHICALLY WITH THE BRIDGE DECK.

COST OF ALL RESILIENT JOINT FILLER MATERIAL IS TO BE INCLUDED IN THE PRICE BID FOR "STRUCTURAL CONCRETE (BRIDGE)".

ALL BEAMS ARE TO BE SET VERTICAL.

FORMS FOR THE BRIDGE DECK AND BARRIER RAIL ARE TO BE SUPPORTED BY THE PRESTRESSED CONCRETE BEAMS.

CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

ALL DECK AND DIAPHRAGM REINFORCING IS TO BE WIRED IN PLACE AND ADEQUATELY SUPPORTED BEFORE CONCRETE IS PLACED.

TOP TRANSVERSE REINFORCING STEEL IS TO BE PARALLEL TO AND 2 1/2" CLEAR BELOW TOP OF DECK. BOTTOM TRANSVERSE REINFORCING STEEL IS TO BE PARALLEL TO AND 1" CLEAR ABOVE BOTTOM OF DECK. TOP AND BOTTOM REINFORCING STEEL IS TO BE SUPPORTED BY INDIVIDUAL BAR CHAIRS SPACED AT NOT MORE THAN 3'-0 CENTERS LONGITUDINALLY AND TRANSVERSELY, OR BY CONTINUOUS ROWS OF BAR HIGH CHAIRS OR DECK BOLSTERS SPACED 4'-0 APART. I.M. 451.01 REQUIREMENTS SHALL APPLY FOR BAR CHAIRS, BAR HIGH CHAIRS, AND DECK BOLSTERS.

TRANSVERSE DECK REINFORCING SHALL BE SPLICED AS SHOWN.

NO ALLOWANCE SHALL BE MADE FOR THE ADDITIONAL LENGTH OF BAR REQUIRED FOR THE USE OF ADDITIONAL SPLICES.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Bridge Deck Cross Section

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

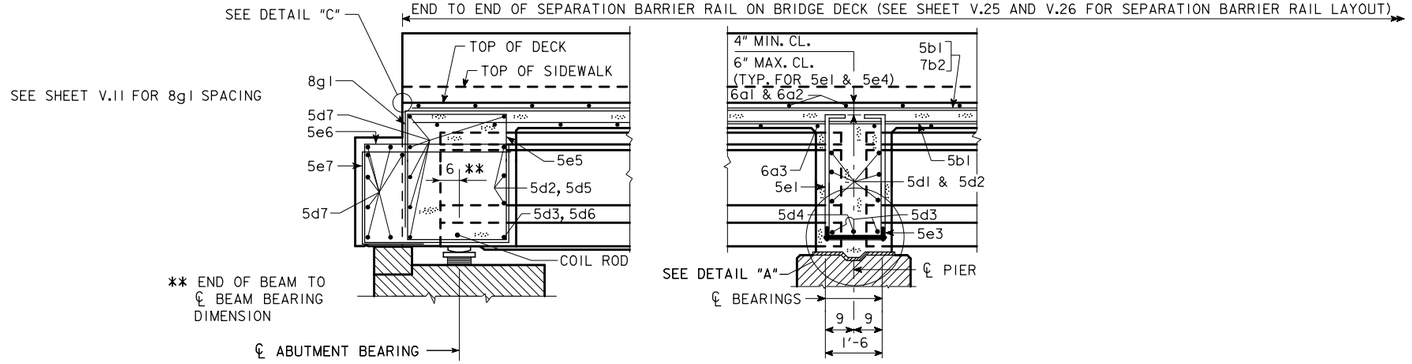
Linn County

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Design Sheet No. V.14 of V.35 FHWA No. 505820

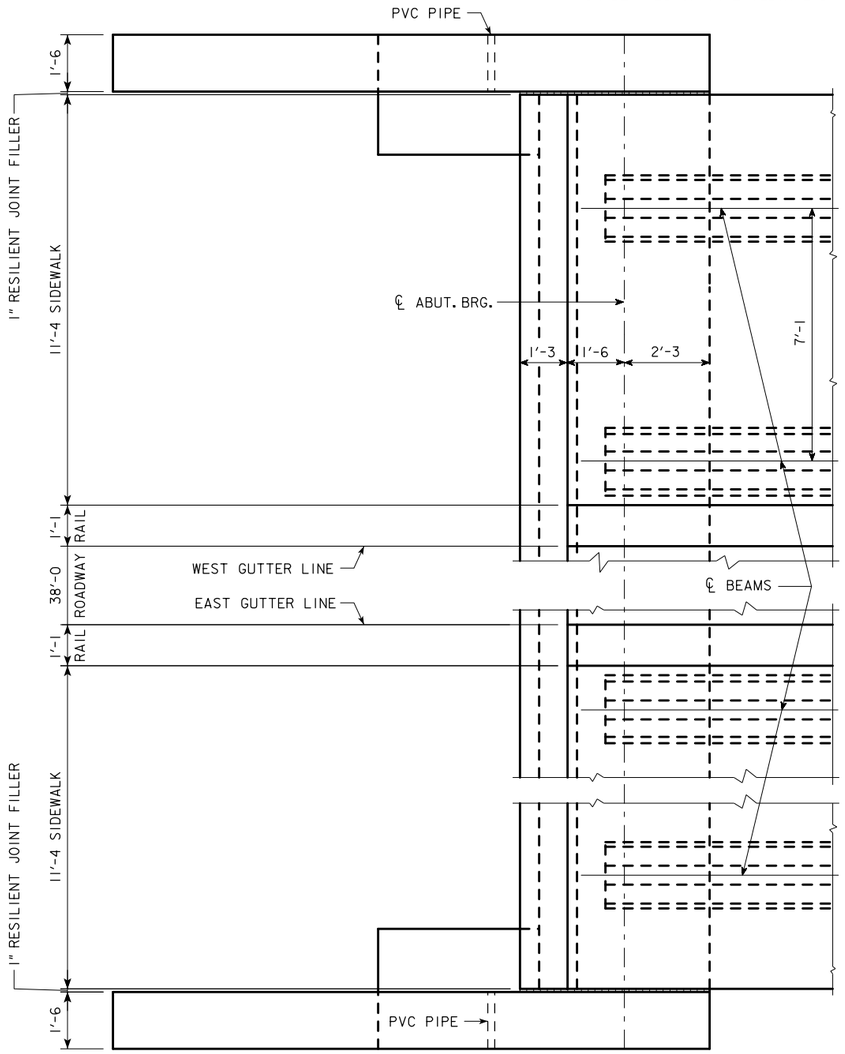
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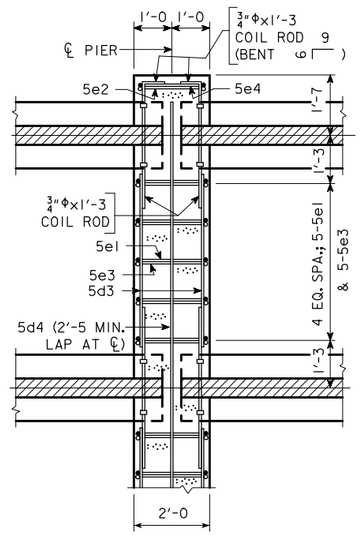
PART LONGITUDINAL SECTION NEAR GUTTER

(FOR DETAILS OF INTERMEDIATE DIAPHRAGM SEE SHEET V.24).

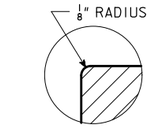


PART PLAN VIEW

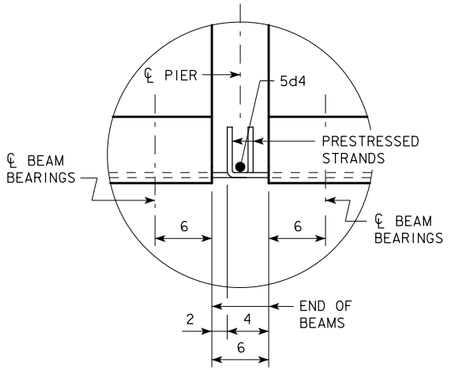
(BUTYL RUBBER MEMBRANES NOT SHOWN FOR CLARITY.)



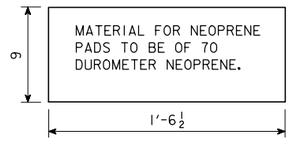
PART SECTION AT PIER



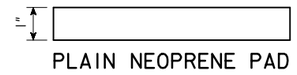
DETAIL "C"



DETAIL "A"

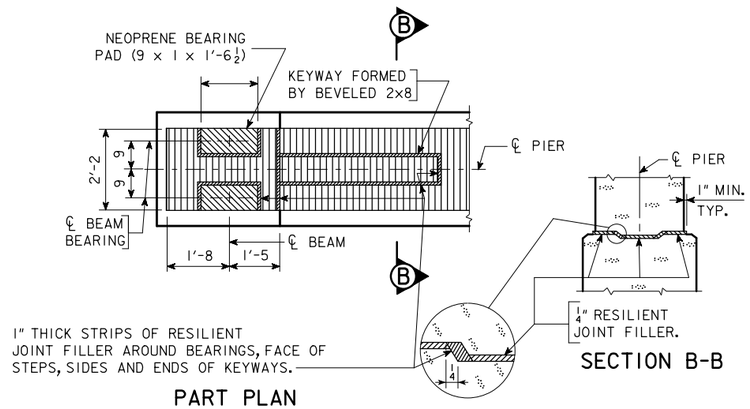


NOTE:
COST OF NEOPRENE PADS SHALL BE INCLUDED IN THE PRICE BID FOR "PRETENSIONED PRESTRESSED CONCRETE BEAMS".



PLAIN NEOPRENE PAD

PIER BEARING DETAILS



PART PLAN

SECTION B-B

TOP OF PIER DETAILS

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Longitudinal Section / Part Plan

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

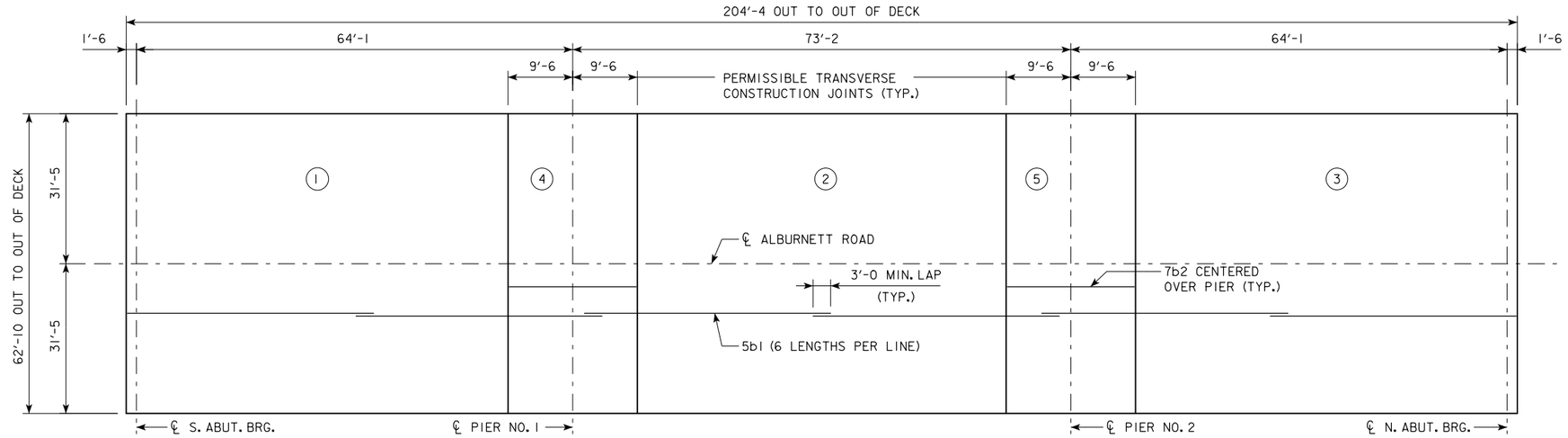
Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.15 of V.35 FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK·BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.15

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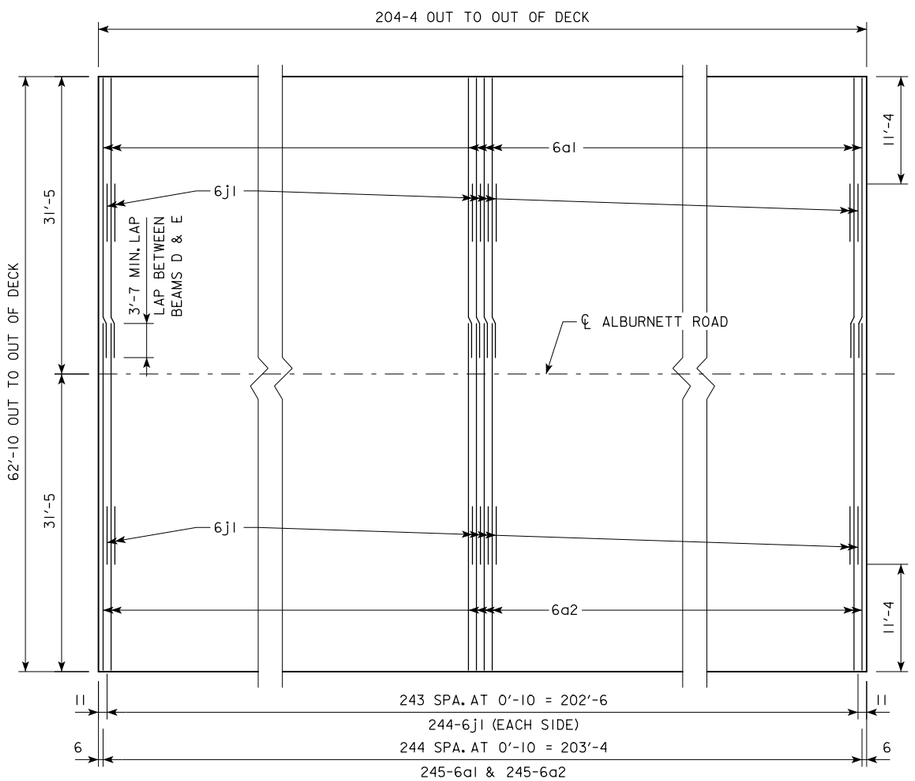


NOTE:
CONDUIT FOR LIGHT POLES NOT SHOWN. 6a REINFORCING BARS MAY BE SHIFTED SLIGHTLY TO ACCOMODATE 2" DIA. RIGID STEEL CONDUIT AT LIGHT POLE COLUMN LOCATIONS. SEE SHEET V.31 FOR LIGHT POLE COLUMN AND CONDUIT DETAILS.

CONCRETE PLACEMENT DIAGRAM AND LONGITUDINAL DECK REINFORCEMENT LAYOUT

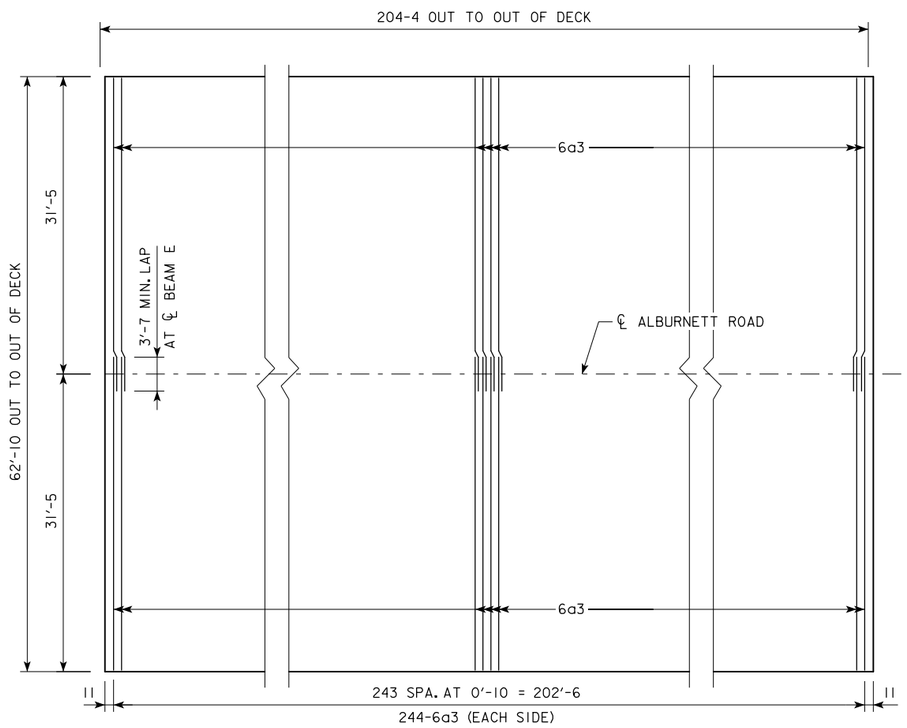
NOTE:
CONCRETE DECK SHALL BE PLACED IN SECTIONS AND SEQUENCES INDICATED. AN APPROVED ALTERNATE PROCEDURE IS TO PLACE THE CONCRETE DECK IN ONE CONTINUOUS POUR BEGINNING AT ONE END OF THE BRIDGE. ALTERNATE PROCEDURES FOR PLACING DECK CONCRETE MAY BE SUBMITTED FOR APPROVAL TOGETHER WITH A STATEMENT OF THE PROPOSED METHOD AND EVIDENCE THAT THE CONTRACTOR POSSESSES THE NECESSARY EQUIPMENT AND FACILITIES TO ACCOMPLISH THE REQUIRED RESULTS. THE BRIDGE ENGINEER SHALL REVIEW ANY ALTERNATE PROCEDURES. THE COST OF ANY ADDITIONAL ANALYSIS AND PLAN MODIFICATIONS SHALL BE PAID FOR BY THE CONTRACTOR. THE ENGINEER SHALL DETERMINE IF A RETARDING ADMIXTURE IS REQUIRED TO MAINTAIN PLASTICITY OF THE CONCRETE DECK DURING PLACEMENT.

DECK CONCRETE SECTIONS SHALL CURE FOR A MINIMUM OF 48 HOURS AND SHALL ACHIEVE A MINIMUM STRENGTH OF 75% OF THE 28 DAY DECK CONCRETE STRENGTH PRIOR TO REMOVING DECK HEADERS AND BEGINNING AN ADJACENT POUR.

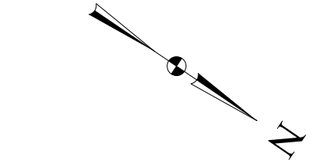


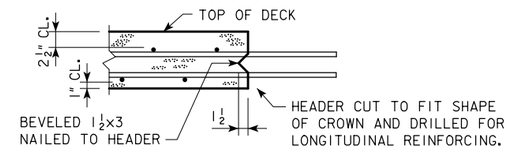
TOP OF DECK TRANSVERSE REINFORCING STEEL LAYOUT

6j1 BARS LOCATED AT SEPERATION BARRIER RAILS



BOTTOM OF DECK TRANSVERSE REINFORCING STEEL LAYOUT





PERMISSIBLE TRANSVERSE DECK CONSTRUCTION JOINT

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

Concrete Placement / Deck Reinf.

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.16 of V.35 — FHWA No. 505820

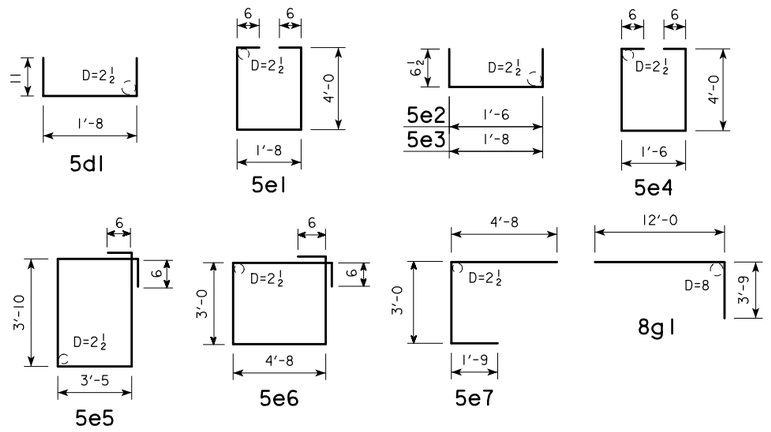
FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.16

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EPOXY COATED REINFORCING STEEL - DECK & DIAPHRAGMS

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
6a1	DECK TRANSV. TOP WEST	——	245	29'-6	10,856
6a2	DECK TRANSV. TOP EAST	——	245	36'-7	13,462
6a3	DECK TRANSV. BOTTOM	——	488	33'-1	24,249
5b1	DECK LONGIT. TOP & BOTT.	——	912	36'-6	34,719
7b2	DECK LONGIT. AT PIERS	——	162	18'-8	6181
5d1	PIER DIAPH. ENDS	⌊⌋	12	3'-6	44
5d2	PIER & ABUT. DIAPH LONGIT.	——	144	6'-0	901
5d3	PIER & ABUT. DIAPH LONGIT.	——	48	5'-1	254
5d4	PIER DIAPH. LONGIT.	——	4	31'-0	129
5d5	ABUT. DIAPH. ENDS	——	12	2'-4	29
5d6	ABUT. DIAPH. ENDS	——	4	1'-11	8
5d7	ABUT. DIAPH. LONGIT.	——	56	32'-6	1898
5e1	PIER DIAPH. HOOPS	□	80	10'-8	890
5e2	PIER DIAPH. TIES ENDS	⌊⌋	4	2'-7	11
5e3	PIER DIAPH. TIES	⌊⌋	80	2'-9	229
5e4	PIER DIAPH. HOOPS ENDS	□	4	10'-6	44
5e5	ABUT. DIAPH. HOOPS	□	92	15'-6	1487
5e6	ABUT. DIAPH./PAVING NOTCH HOOPS	▭	92	16'-4	1567
5e7	ABUT. DIAPH./PAVING NOTCH BACKWALL	⊏	36	9'-5	354
8g1	ABUT. DIAPH. VERT. B.F.	⌐	128	15'-9	5383
6j1	TOP OF DECK TRANSV. (AT RAIL)	——	488	6'-3	4581
	EPOXY COATED REINFORCING STEEL - TOTAL WEIGHT (LBS.)				107,276

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D= PIN DIAMETER.

CONCRETE PLACEMENT QUANTITIES

LOCATION	QUANTITY
SECTION 1, DECK & ABUT. DIAPH.	128.2
SECTION 2, DECK	86.7
SECTION 3, DECK & ABUT. DIAPH.	128.2
SECTION 4, DECK & PIER DIAPH.	46.5
SECTION 5, DECK & PIER DIAPH.	46.5
HIGH PERFORMANCE STRUCTURAL CONCRETE - TOTAL (CU. YDS.)	436.1 (F)

(F) INCLUDE FIBER REINFORCEMENT IN STRUCTURAL CONCRETE.

NOTE:
CONCRETE AND REINFORCING STEEL QUANTITIES ARE INCLUDED ON THE SUMMARY QUANTITIES SHEET.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

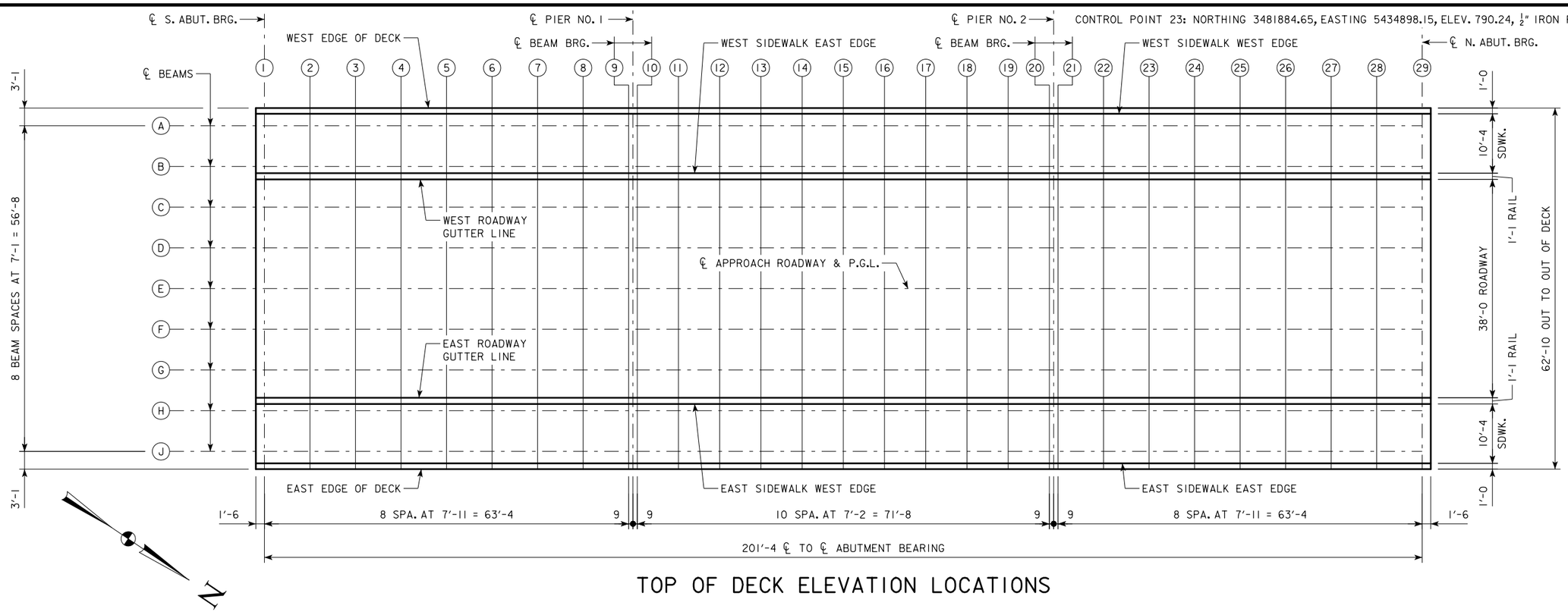
Deck & Diaphragm Quantities

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.17 of V.35 FHWA No. 505820

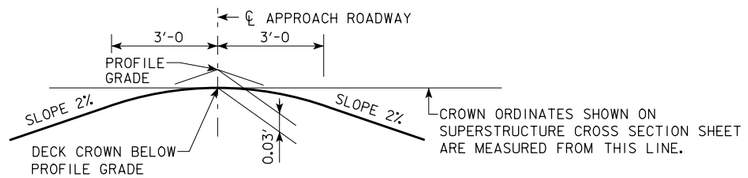


TOP OF DECK ELEVATION LOCATIONS

TOP OF DECK ELEVATIONS

	℄ S. ABUT. BEARING								℄ PIER NO. 1 BEARINGS										℄ PIER NO. 2 BEARINGS									℄ N. ABUT. BEARING
LINE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
WEST SDWK. WEST EDGE	794.64	794.75	794.85	794.96	795.06	795.16	795.27	795.37	795.47	795.49	795.59	795.68	795.78	795.87	795.96	796.06	796.15	796.24	796.34	796.43	796.45	796.56	796.66	796.76	796.87	796.97	797.07	797.18	797.28
BEAM LINE A	794.64	794.75	794.85	794.96	795.06	795.16	795.27	795.37	795.47	795.49	795.59	795.68	795.78	795.87	795.96	796.06	796.15	796.24	796.34	796.43	796.45	796.56	796.66	796.76	796.87	796.97	797.07	797.18	797.28
BEAM LINE B	794.64	794.75	794.85	794.96	795.06	795.16	795.27	795.37	795.47	795.49	795.59	795.68	795.78	795.87	795.96	796.06	796.15	796.24	796.34	796.43	796.45	796.56	796.66	796.76	796.87	796.97	797.07	797.18	797.28
WEST SDWK. EAST EDGE	794.67	794.77	794.87	794.98	795.08	795.19	795.29	795.39	795.50	795.52	795.61	795.70	795.80	795.89	795.99	796.08	796.17	796.27	796.36	796.46	796.48	796.58	796.68	796.79	796.89	796.99	797.10	797.20	797.30
WEST GUTTER LINE	794.69	794.79	794.90	795.00	795.10	795.21	795.31	795.42	795.52	795.54	795.63	795.73	795.82	795.91	796.01	796.10	796.20	796.29	796.38	796.48	796.50	796.60	796.70	796.81	796.91	797.02	797.12	797.22	797.33
BEAM LINE C	794.79	794.89	794.99	795.10	795.20	795.30	795.41	795.51	795.62	795.64	795.73	795.82	795.92	796.01	796.10	796.20	796.29	796.39	796.48	796.57	796.59	796.70	796.80	796.90	797.01	797.11	797.22	797.32	797.42
BEAM LINE D	794.93	795.03	795.13	795.24	795.34	795.45	795.55	795.65	795.76	795.78	795.87	795.96	796.06	796.15	796.25	796.34	796.43	796.53	796.62	796.72	796.74	796.84	796.94	797.05	797.15	797.25	797.36	797.46	797.56
℄ APPR. RDWY. & P.G.L.	795.04	795.14	795.25	795.35	795.45	795.56	795.66	795.77	795.87	795.89	795.98	796.08	796.17	796.26	796.36	796.45	796.55	796.64	796.73	796.83	796.85	796.95	797.05	797.16	797.26	797.37	797.47	797.57	797.68
BEAM LINE E	795.04	795.14	795.25	795.35	795.45	795.56	795.66	795.77	795.87	795.89	795.98	796.08	796.17	796.26	796.36	796.45	796.55	796.64	796.73	796.83	796.85	796.95	797.05	797.16	797.26	797.37	797.47	797.57	797.68
BEAM LINE F	794.93	795.03	795.13	795.24	795.34	795.45	795.55	795.65	795.76	795.78	795.87	795.96	796.06	796.15	796.25	796.34	796.43	796.53	796.62	796.72	796.74	796.84	796.94	797.05	797.15	797.25	797.36	797.46	797.56
BEAM LINE G	794.79	794.89	794.99	795.10	795.20	795.30	795.41	795.51	795.62	795.64	795.73	795.82	795.92	796.01	796.10	796.20	796.29	796.39	796.48	796.57	796.59	796.70	796.80	796.90	797.01	797.11	797.22	797.32	797.42
EAST GUTTER LINE	794.69	794.79	794.90	795.00	795.10	795.21	795.31	795.42	795.52	795.54	795.63	795.73	795.82	795.91	796.01	796.10	796.20	796.29	796.38	796.48	796.50	796.60	796.70	796.81	796.91	797.02	797.12	797.22	797.33
EAST SDWK. WEST EDGE	794.67	794.77	794.87	794.98	795.08	795.19	795.29	795.39	795.50	795.52	795.61	795.70	795.80	795.89	795.99	796.08	796.17	796.27	796.36	796.46	796.48	796.58	796.68	796.79	796.89	796.99	797.10	797.20	797.30
BEAM LINE H	794.64	794.75	794.85	794.96	795.06	795.16	795.27	795.37	795.47	795.49	795.59	795.68	795.78	795.87	795.96	796.06	796.15	796.24	796.34	796.43	796.45	796.56	796.66	796.76	796.87	796.97	797.07	797.18	797.28
BEAM LINE J	794.64	794.75	794.85	794.96	795.06	795.16	795.27	795.37	795.47	795.49	795.59	795.68	795.78	795.87	795.96	796.06	796.15	796.24	796.34	796.43	796.45	796.56	796.66	796.76	796.87	796.97	797.07	797.18	797.28
EAST SDWK. EAST EDGE	794.64	794.75	794.85	794.96	795.06	795.16	795.27	795.37	795.47	795.49	795.59	795.68	795.78	795.87	795.96	796.06	796.15	796.24	796.34	796.43	796.45	796.56	796.66	796.76	796.87	796.97	797.07	797.18	797.28

NOTE:
THE TOP OF DECK ELEVATIONS FOR THE HIGH POINT ON THE BRIDGE DECK ARE 0.03 FEET BELOW THE HIGH POINT ON THE APPROACH ROADWAY TO ACCOUNT FOR THE ROUNDING OF THE DECK WITH A PARABOLIC TEMPLATE AT THE CROSS SLOPE INTERSECTION.



CROWN TEMPLATE

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

Top of Deck Elevations

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

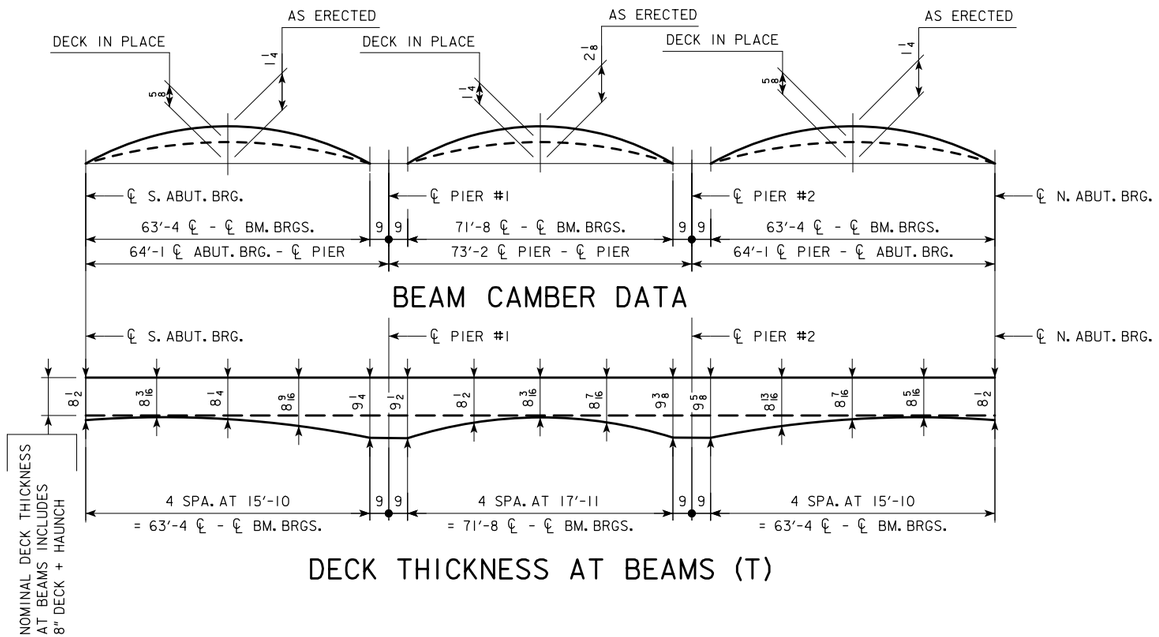
Linn County

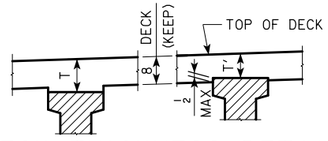
IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.18 of V.35 — FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK·BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.18

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DECK THICKNESS DETAILS

NOTE: THE DECK THICKNESS (T) AT BEAMS IS BASED ON THE ANTICIPATED BEAM CAMBER AND DEFLECTIONS. THESE VALUES ARE USED BY THE DESIGNER TO SET BEAM ELEVATIONS AND ESTIMATE CONCRETE QUANTITIES. REFER TO THE HAUNCH DATA DETAILS SHEET FOR ADDITIONAL INFORMATION TO AID THE CONTRACTOR IN SETTING THE FIELD HAUNCHES REQUIRED FOR CONSTRUCTION.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Deck Thickness Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.19 of V.35 FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK·BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.19	

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CONTROL POINT 23: NORTHING 3481884.65, EASTING 5434898.15, ELEV. 790.24, ½" IRON ROD WITH RED PLASTIC CAP.

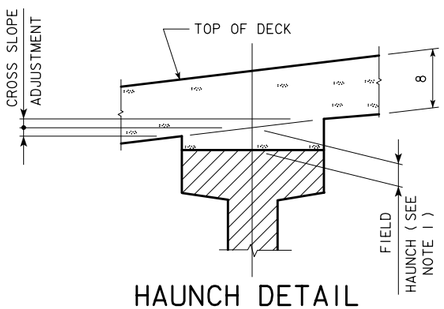
TABLE OF BEAM LINE DECK HAUNCH ELEVATIONS

LOCATION LINE / BEAM LINE	℄ S. ABUT. BEARING								℄ PIER NO. 1 BEARINGS											℄ PIER NO. 2 BEARINGS									℄ N. ABUT. BEARING
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
BEAM LINE A	793.98	794.10	794.22	794.34	794.45	794.55	794.64	794.72	794.81	794.83	794.95	795.06	795.17	795.28	795.37	795.46	795.55	795.62	795.70	795.77	795.79	795.91	796.03	796.15	796.26	796.35	796.45	796.53	796.61
BEAM LINE B	793.98	794.10	794.22	794.34	794.45	794.55	794.64	794.72	794.81	794.83	794.95	795.06	795.17	795.28	795.37	795.46	795.55	795.62	795.70	795.77	795.79	795.91	796.03	796.15	796.26	796.35	796.45	796.53	796.61
BEAM LINE C	794.12	794.24	794.37	794.48	794.59	794.69	794.78	794.87	794.95	794.97	795.09	795.20	795.31	795.42	795.52	795.61	795.69	795.77	795.84	795.91	795.93	796.05	796.17	796.29	796.40	796.50	796.59	796.67	796.76
BEAM LINE D	794.26	794.39	794.51	794.62	794.73	794.83	794.92	795.01	795.09	795.11	795.23	795.34	795.46	795.56	795.66	795.75	795.83	795.91	795.98	796.05	796.07	796.19	796.32	796.43	796.54	796.64	796.73	796.82	796.90
BEAM LINE E	794.37	794.50	794.62	794.73	794.84	794.94	795.03	795.12	795.20	795.22	795.34	795.46	795.57	795.67	795.77	795.86	795.94	796.02	796.09	796.16	796.18	796.31	796.43	796.54	796.65	796.75	796.84	796.93	797.01
BEAM LINE F	794.26	794.39	794.51	794.62	794.73	794.83	794.92	795.01	795.09	795.11	795.23	795.34	795.46	795.56	795.66	795.75	795.83	795.91	795.98	796.05	796.07	796.19	796.32	796.43	796.54	796.64	796.73	796.82	796.90
BEAM LINE G	794.12	794.24	794.37	794.48	794.59	794.69	794.78	794.87	794.95	794.97	795.09	795.20	795.31	795.42	795.52	795.61	795.69	795.77	795.84	795.91	795.93	796.05	796.17	796.29	796.40	796.50	796.59	796.67	796.76
BEAM LINE H	793.98	794.10	794.22	794.34	794.45	794.55	794.64	794.72	794.81	794.83	794.95	795.06	795.17	795.28	795.37	795.46	795.55	795.62	795.70	795.77	795.79	795.91	796.03	796.15	796.26	796.35	796.45	796.53	796.61
BEAM LINE J	793.98	794.10	794.22	794.34	794.45	794.55	794.64	794.72	794.81	794.83	794.95	795.06	795.17	795.28	795.37	795.46	795.55	795.62	795.70	795.77	795.79	795.91	796.03	796.15	796.26	796.35	796.45	796.53	796.61

MISCELLANEOUS DATA TABLE

	LOCATION LINE / BEAM LINE		℄ S. ABUT. BEARING								℄ PIER NO. 1 BEARINGS											℄ PIER NO. 2 BEARINGS									℄ N. ABUT. BEARING
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
ANTICIPATED DEFLECTION DUE TO SLAB (IN.)	ALL		0	1/4	7/16	9/16	5/8	9/16	7/16	1/4	0	0	1/4	1/2	11/16	13/16	7/8	13/16	11/16	1/2	1/4	0	0	1/4	7/16	9/16	5/8	9/16	7/16	1/4	0
CROSS SLOPE ADJUSTMENTS (IN.)	A, E & J		0																												
	B-D & F-H		3/16																												
ALLOWABLE FIELD HAUNCH (IN. & FT.)	MAX.	ALL	2 (0.167)																												
	MIN.	A, E & J	-1/2 (-0.042)																												
		B-D & F-H	-5/16 (-0.028)																												

NOTE:
HAUNCH LOCATIONS ARE AT THE SAME LOCATION AS THE ENCIRCLED LETTERS AND NUMBERS SHOWN ON DECK ELEVATIONS SHEET.

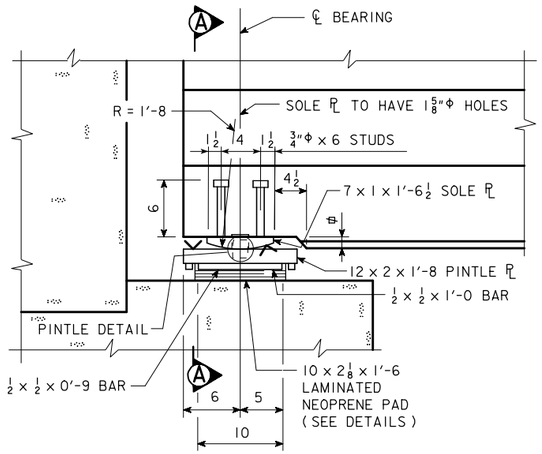


HAUNCH DETAIL

NOTE:
BRIDGE SEAT ELEVATIONS ARE SET BASED ON THEORETICAL CAMBER AND BEAM DEFLECTIONS. THESE BRIDGE SEATS WILL PROVIDE A THEORETICAL BEAM HAUNCH WITHIN DESIGN PARAMETERS. FIELD HAUNCHES ARE DETERMINED USING SURVEYED TOP OF BEAM ELEVATIONS AND "BEAM LINE HAUNCH ELEVATION" DATA. ALLOWABLE MAXIMUM AND MINIMUM "FIELD HAUNCH" VALUES ARE GIVEN IN INCHES AND DECIMALS OF FEET IN THE "MISCELLANEOUS DATA" TABLE. "CROSS SLOPE ADJUSTMENT" VALUES WILL AID THE CONTRACTOR IN DETERMINING ACTUAL FORMED HAUNCH DIMENSIONS AT THE EDGES OF THE TOP FLANGE.

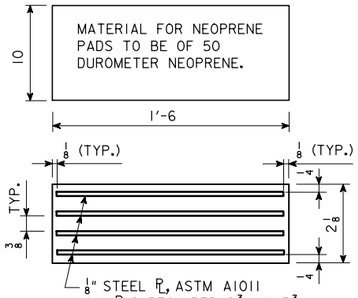
NOTE 1:
TO CALCULATE FIELD HAUNCH REQUIRED AT EACH LOCATION, SURVEY THE BEAM TOPS CONSISTENT WITH THE SPACINGS SHOWN ON THE "TOP OF DECK ELEVATIONS LAYOUT". SUBTRACT THE SURVEYED BEAM SHOT FROM THE "BEAM LINE HAUNCH ELEVATION". THIS VALUE WILL BE THE HAUNCH NEEDED (SEE "FIELD HAUNCH" IN HAUNCH DETAIL). THE "BEAM LINE HAUNCH ELEVATION" INCLUDES ADJUSTMENTS FOR DECK THICKNESSES AND ANTICIPATED DEFLECTIONS. NO ADDITIONAL CALCULATIONS ARE REQUIRED. IF THE FIELD HAUNCH EXCEEDS THE MAXIMUMS AND MINIMUMS SHOWN IN INCHES AND DECIMALS OF FEET IN THE MISCELLANEOUS DATA TABLE, ADJUSTMENTS TO THE GRADE OR ADDITIONAL HAUNCH REINFORCEMENT WILL BE REQUIRED.

Design For 0° Skew
201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.
64'-1 End Spans 73'-2 Interior Span
Deck Haunch Data Details
STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026
Linn County
IOWA DEPARTMENT OF TRANSPORTATION
Design Sheet No. V.20 of V.35 FHWA No. 505820

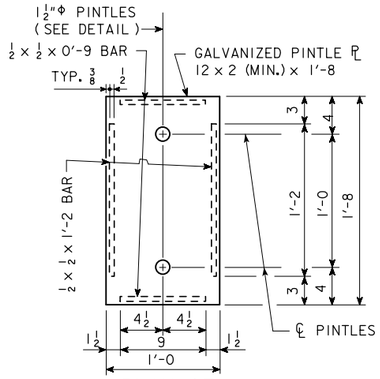


PART ELEVATION

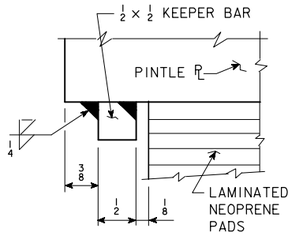
ΦNOTCH BEAM END TO SOLE ℄ THICKNESS MAXIMUM 1"



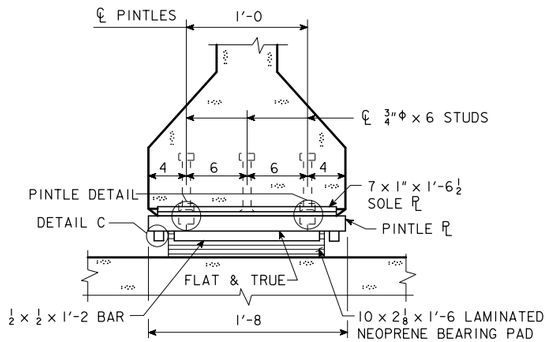
LAMINATED NEOPRENE PAD



PLAN OF PINTLE PLATE



DETAIL C



SECTION A-A ABUTMENT BEARING

PINTLE DETAIL

LAMINATED NEOPRENE PAD / CURVED SOLE ℄ ASSEMBLY

ABUTMENT BEARING NOTES:

SURFACES MARKED "V" SHALL BE FINISHED ANSI 250.
PINTLE PLATES ARE A PART OF THE SUPERSTRUCTURE STRUCTURAL STEEL QUANTITY.
COST OF ANCHORED CURVED SOLE PLATES IS TO BE INCLUDED IN THE PRICE BID FOR PRETENSIONED PRESTRESSED CONCRETE BEAMS.
COST OF NEOPRENE BEARING PADS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM FOR PRETENSIONED PRESTRESSED CONCRETE BEAMS.
THE SOLE PLATES AND PINTLE PLATES SHALL BE GALVANIZED. ALL WELDING SHALL BE COMPLETED PRIOR TO GALVANIZING. THE SURFACE OF THE PINTLE PLATE IN CONTACT WITH THE LAMINATED NEOPRENE PADS SHALL BE FREE OF PROJECTIONS DUE TO THE GALVANIZING.
SOLE PLATES ARE TO BE SET IN FORMS WHEN BEAMS ARE CAST AND THE BOTTOM OF BEAMS FORMED OUT AS SHOWN TO EXCLUDE CONCRETE.
SOLE PLATES SHALL COMPLY WITH ONE OF THE FOLLOWING :
ASTM A514 GRADE B
ASTM A709 GRADE HPS 70W

STRUCTURAL STEEL		
WEIGHT	2520	LBS.

DOES NOT INCLUDE CURVED SOLE ℄

NOTE: STRUCTURAL STEEL WEIGHT IS INCLUDED ON THE SUMMARY QUANTITIES SHEET.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

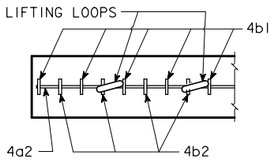
Abutment Bearing Details

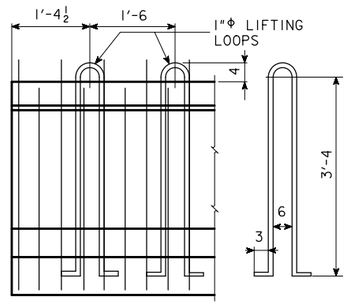
STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

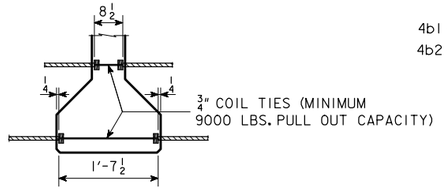
Design Sheet No. V.21 of V.35 FHWA No. 505820





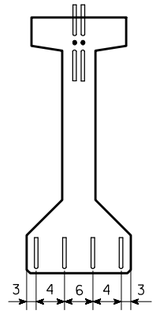
LIFTING LOOP DETAIL

ALTERNATE TYPES MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. LIFTING LOOPS ARE TO BE STRUCTURAL GRADE.

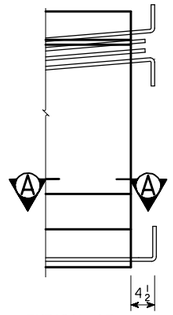


COIL TIE DETAIL

NUMBER AND EXACT LOCATION OF COIL TIES TO BE AS DETAILED ON SPECIFIC BRIDGE DESIGN.

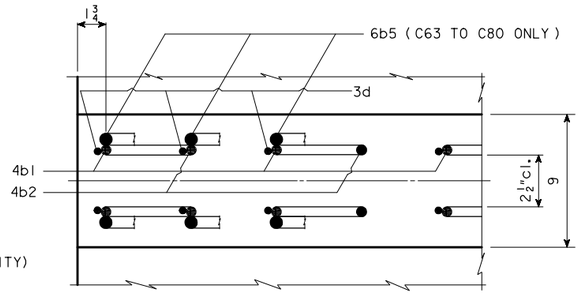


THE TOP STRAIGHT STRANDS OF BEAMS C30 THROUGH C67 ARE TO BE CUT WITH 1'-0 PROJECTIONS AND SHOP BENT UP. THE TOP AND BOTTOM DEFLECTED STRANDS OF BEAMS C71 THROUGH C80 ARE TO BE CUT WITH 1'-0 PROJECTIONS AND SHOP BENT UP OR DOWN AS SHOWN. THE REMAINING TOP STRANDS ARE TO BE CUT WITH 0'-3 PROJECTIONS.
FOUR BOTTOM STRANDS ARE TO BE CUT WITH 1'-0 PROJECTIONS AND SHOP BENT AS SHOWN. THE REMAINING BOTTOM STRANDS SHALL BE CUT OFF REASONABLY FLUSH WITH THE CONCRETE.



TYPICAL AT BOTH BEAM ENDS

STRAND PROJECTION AT BEAM ENDS WHEN EMBEDDED IN CONCRETE END DIAPHRAGMS



SECTION A-A SHOWING PLACEMENT OF STIRRUPS NEAR END OF BEAM

SPECIFICATIONS:

CONSTRUCTION: STANDARD SPECIFICATIONS OF THE IOWA DEPARTMENT OF TRANSPORTATION, CURRENT SERIES, WITH CURRENT APPLICABLE SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS.
DESIGN: A.A.S.H.T.O. LRFD, SERIES OF 2007, WITH MINOR MODIFICATIONS.

DESIGN STRESSES:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE TO BE IN ACCORDANCE WITH A.A.S.H.T.O. LRFD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 2007:
REINFORCING STEEL IN ACCORDANCE WITH SECTION 5, GRADE 60.
CONCRETE IN ACCORDANCE WITH SECTION 5, f'c = 5000 psi (EXCEPT AS NOTED)
PRESTRESSING STEEL IN ACCORDANCE WITH SECTION 5, f's = 270,000 psi.

** WHERE DEFLECTING STRANDS INTERFERE WITH PLACEMENT, SOME IN-PLACE BENDING MAY BE NECESSARY.
ΔΔ 4b1 BARS TO BE EPOXY COATED.

C BEAM DATA

BEAM	SPAN LENGTH ℄-℄ BEARING	OVERALL BEAM LENGTH (L)	STRAND SIZE DIA. (inches)	NO. OF STRANDS STRAIGHT	NO. OF STRANDS DEFLECTED	TOTAL INITIAL PRESTRESS KIPS ③	HOLD DOWN FORCE-KIPS	CAMBER (in.) AT RELEASE	CAMBER (in.) AFTER LOSSES	DEFLECTION (in.) Δ_D IMMEDIATE ① (Δ_I) ELASTIC CONC. DIAPH.	IMMEDIATE ① (Δ_I) ELASTIC STEEL DIAPH.	TIME ② (Δ_T) PLASTIC CONC. DIAPH.	TIME ② (Δ_T) PLASTIC STEEL DIAPH.	PERMISSIBLE SPACING	PERMISSIBLE SPACING HL93 LOADING CONC. DIAPH.	PERMISSIBLE SPACING HL93 LOADING STEEL DIAPH.	WEIGHT (TONS)	CONCRETE (C. Y.)	REINFORCING STEEL -(lb)
C30																			
C34																			
C38																			
C42																			
C46																			
C50																			
C55																			
C59																			
C63	63'-4	64'-4	0.60	16	—	681	——	0.70	1.24	0.59	0.54	0.15	0.14		7'-6	7'-6	18.9	9.34	536
C67																			
*C71	71'-8	72'-8	0.60	14	4	766	16	1.21	2.13	0.88	0.82	0.22	0.20		7'-6	7'-6	21.4	10.55	855
*C75																			
*C80																			

① DEFLECTIONS AT MID-SPAN DUE TO WEIGHT OF SLAB AND DIAPHRAGM. THE DEFLECTIONS SHOWN ARE FOR A SLAB WEIGHT OF 757 #/FT. (8" SLAB AND 7'-6 BEAM SPACING) AND ONE CONCRETE DIAPHRAGM (2635 #) OR ONE STEEL DIAPHRAGM (285 #) AT ℄ OF SPAN. FOR DIFFERENT SLAB AND DIAPHRAGM WEIGHTS, DEFLECTIONS WILL BE DIRECTLY PROPORTIONAL.

② DEFLECTIONS DUE TO THE COMBINED EFFECT OF CREEP DUE TO WEIGHT OF SLAB AND SHRINKAGE OF SLAB.

TOTAL BEAM DEFLECTIONS AT ℄ OF SPAN, Δ_D, DUE TO WEIGHT OF SLAB AND DIAPHRAGMS FOR DETAILING PURPOSE:
(A) $\Delta_D = \Delta_I + \Delta_T$ FOR SIMPLE SPAN.
(B) $\Delta_D = \Delta_I + \frac{3}{4}\Delta_T$ FOR END SPANS OF CONTINUOUS BRIDGE.
(C) $\Delta_D = \Delta_I + \frac{1}{2}\Delta_T$ FOR INTERIOR SPANS OF CONTINUOUS BRIDGE.

③ TOTAL INITIAL PRESTRESS IS BASED ON 72.6% f's, f's = 270 ksi AND As = 0.217 sq. in.

* MINIMUM CONCRETE f'c (AT 28 DAYS) SHALL BE 6,000 psi. MINIMUM f'ci AT RELEASE SHALL BE 5,000 psi.

BEAM NOTES:

THESE BEAMS ARE DESIGNED FOR AASHTO LIVE LOADS AS INDICATED IN ABOVE TABLE WITH AN ALLOWANCE OF 20 lb. PER SQUARE FOOT OF ROADWAY FOR FUTURE WEARING SURFACE.

ALL PPC BEAMS SHALL USE HIGH PERFORMANCE CONCRETE (HPC) IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

HOLD DOWN POINTS FOR DEFLECTED STRANDS MAY BE MOVED TOWARD ENDS OF BEAM A DISTANCE OF 0.05 L MAXIMUM AT PRODUCER'S OPTION.

ALL PRESTRESSING STRANDS SHALL CONFORM TO ASTM A416 GRADE 270 LOW RELAXATION STRANDS.

TOPS OF BEAMS ARE TO BE STRUCK OFF LEVEL AND FINISHED AS PER MATERIALS IM570.

BEARINGS SHALL BE AS DETAILED ON OTHER DESIGN SHEETS.

BEAMS TO BE USED IN BRIDGES MADE CONTINUOUS BY THE POURED IN PLACE FLOOR, ARE TO BE AT LEAST 28 DAYS OLD BEFORE THE FLOOR IS PLACED UNLESS A SHORTER CURING TIME IS APPROVED BY THE BRIDGE ENGINEER.

THE PORTIONS OF THE PRESTRESS BEAMS THAT ARE TO BE EMBEDDED IN THE ABUTMENT AND PIER DIAPHRAGMS SHALL BE ROUGHENED FOR A DISTANCE OF 10" FROM THE BEAM END BY SANDBLASTING OR OTHER APPROVED METHODS TO PROVIDE SUITABLE BOND BETWEEN THE BEAM AND THE DIAPHRAGM IN ACCORDANCE WITH ARTICLE 2403.03, I, OF THE STANDARD SPECIFICATIONS.

ALL BEAMS ARE TO BE INCREASED IN LENGTH TO COMPENSATE FOR ELASTIC SHORTENING, CREEP AND SHRINKAGE.

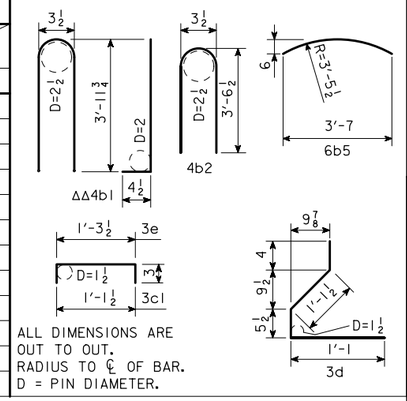
HOLES MUST BE CAST IN THE WEB TO ACCOMMODATE THE STEEL DIAPHRAGM ATTACHMENTS AS DETAILED ON THE STEEL DIAPHRAGM DETAIL SHEET.

IF SOLE PLATE IS REQUIRED FOR BEARING, SOLE PLATE IS TO BE SET IN FORMS WHEN BEAM IS CAST AND FORMED OUT BELOW TO EXCLUDE CONCRETE AS DETAILED ON THE BEARING SHEET.

0.6" DIAMETER STRANDS STRESSED TO NOT MORE THAN 5,000 LBS. EACH MAY BE USED IN LIEU OF THE a BARS WHICH RUN THE FULL LENGTH OF THE BEAM IN THE TOP FLANGE.

REINFORCING BAR LIST

	BEAM / SPAN	C30 30'-0	C34 34'-2	C38 38'-4	C42 42'-6	C46 46'-8	C50 50'-10	C55 55'-0	C59 59'-2	C63 63'-4	C67 67'-6	C71 71'-8	C75 75'-10	C80 80'-0
	BAR SHAPE	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH
	6a1 ——									— ——		4 37'-8		
	4a2 ——									2 5'-0		2 5'-0		
	8a3 ——									— ——		— ——		
ΔΔ	4b1 ⊂									46 8'-10		54 8'-10		
	4b2 ⊂									12 7'-2		12 7'-2		
	6b5 ⌒									4 3'-9		8 3'-9		
	3c1 □									46 1'-8		54 1'-8		
**	3d ∠									116 3'-0		132 3'-0		
	3e □									26 1'-10		26 1'-10		



Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

C Beam Details

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

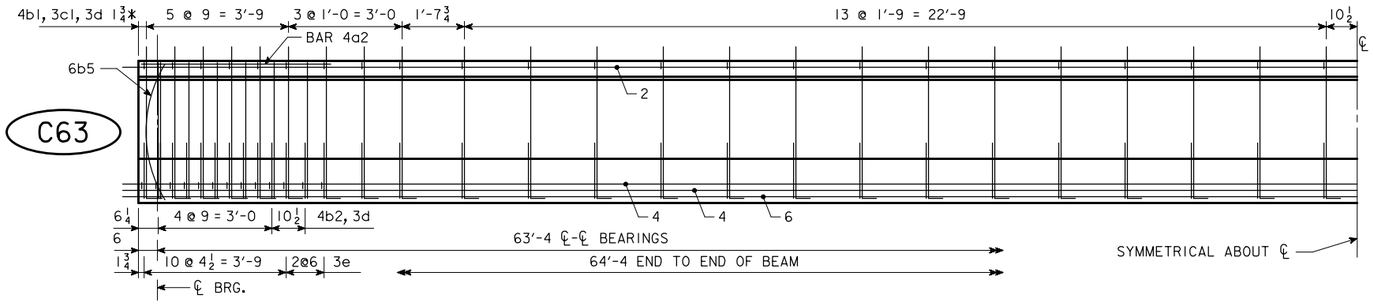
Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.22 of V.35 — FHWA No. 505820

FILE NO. | ENGLISH | DESIGN TEAM SHUCK-BRITSON, INC. | Linn COUNTY | PROJECT NUMBER HDP-4775(646)--71-57 | SHEET NUMBER V.22

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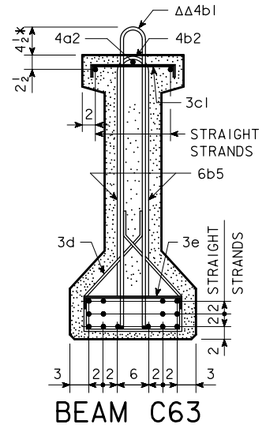


NOTE: BARS 3d ARE TO BE PLACED IN PAIRS.

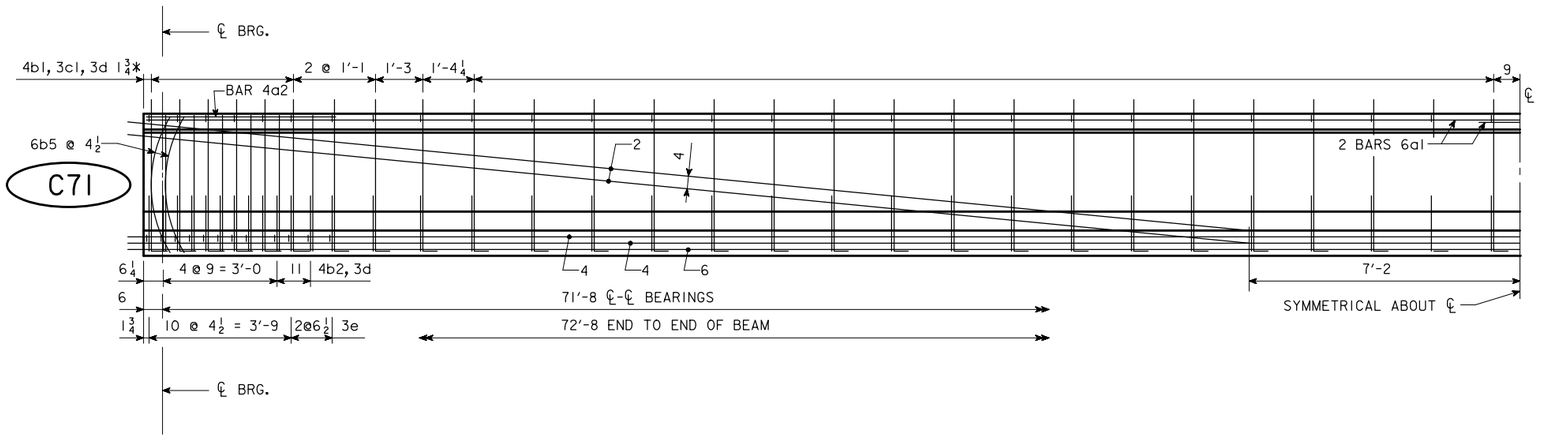
* KEEP

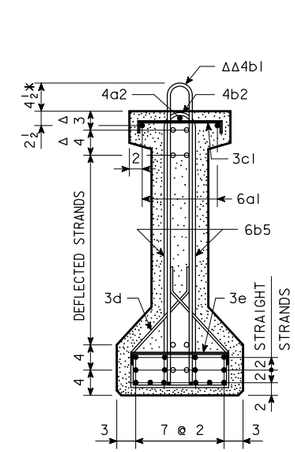
Δ DIMENSIONS AT END OF BEAM

ΔΔ EPOXY COATED BARS

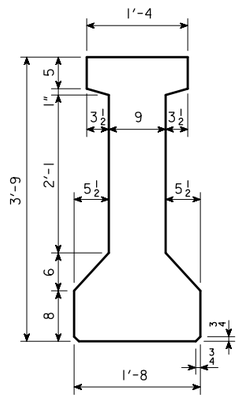


BEAM C63





BEAM C71



"C" BEAM CROSS SECTION

A = 564.5 in²
Y_b = 20.23 in
I = 116,354 in⁴

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Beam Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

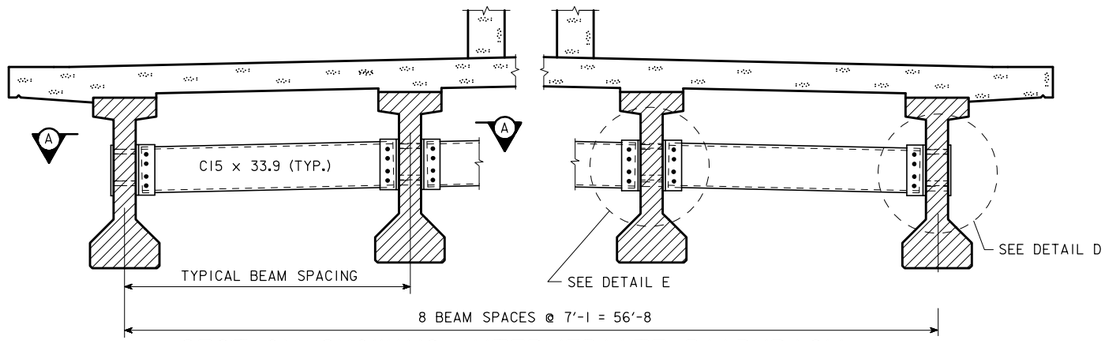
IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.23 of V.35 FHWA No. 505820

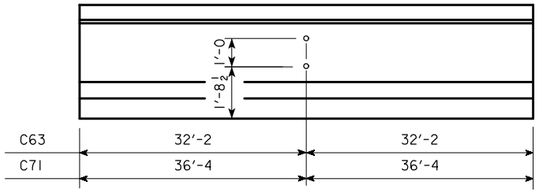
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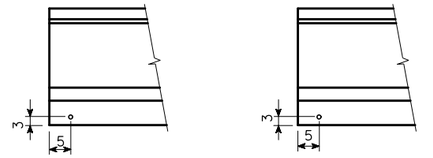
NOTES:
ALL DIAPHRAGM MATERIALS, INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.
SHOP DRAWINGS OF THE STEEL DIAPHRAGMS SHOWING LAYOUT AND DETAILS OF THE DIAPHRAGMS SHALL BE SUBMITTED FOR APPROVAL.
ALL COSTS FOR FURNISHING AND INSTALLING STEEL INTERMEDIATE DIAPHRAGMS SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL.
THE $1\frac{1}{2}$"Φ HOLES FOR THE $\frac{7}{8}$"Φ H.S. BOLTS SHALL BE CAST INTO THE WEB. DRILLING IS NOT ALLOWED.
THE $\frac{7}{8}$"Φ H.S. BOLTS THROUGH THE WEB SHALL HAVE A THREAD LENGTH OF 3 INCH MIN. AND 4 INCH MAX. AND SHALL MEET THE REQUIREMENTS OF ASTM A449.
ALL BOLTS ARE TO BE TIGHTENED PRIOR TO PLACING BRIDGE FLOOR CONCRETE.



SECTION SHOWING INTERMEDIATE DIAPHRAGM

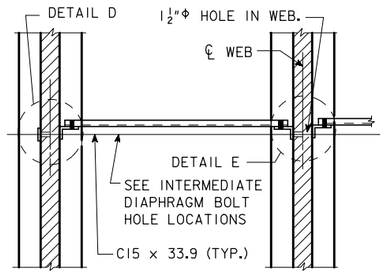


INTERMEDIATE DIAPHRAGM BOLT LOCATIONS



ABUTMENT FIXED PIER

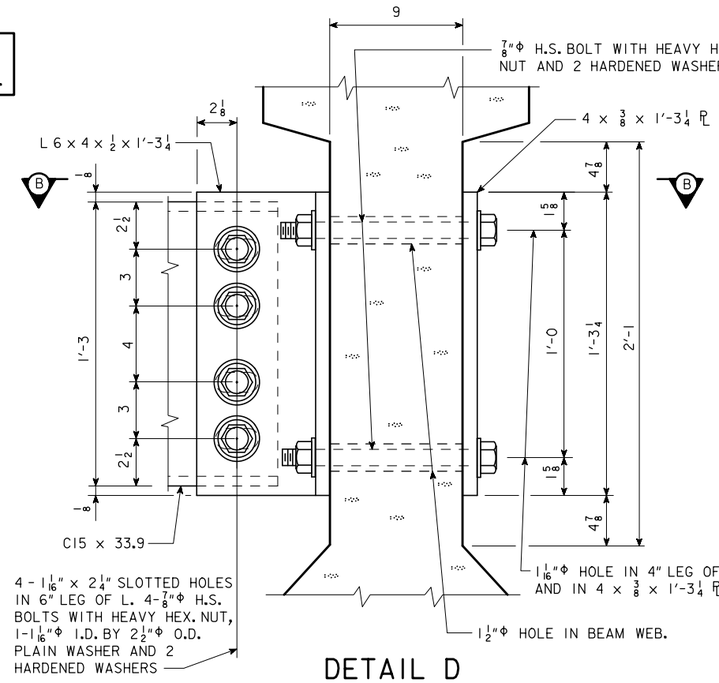
BEAM COIL TIE LOCATIONS



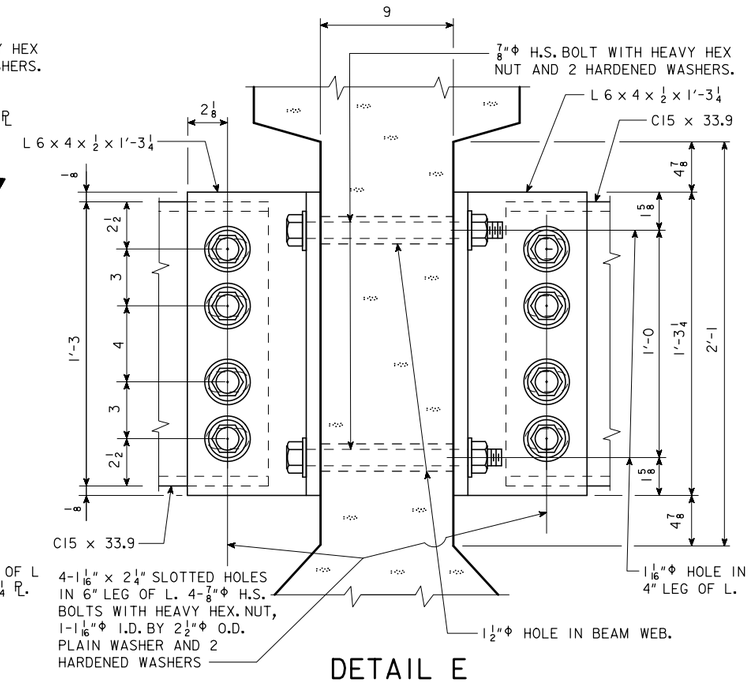
SECTION A-A

STRUCTURAL STEEL	
WEIGHT	6344 LBS.

NOTE: STRUCTURAL STEEL WEIGHT IS INCLUDED ON THE SUMMARY QUANTITIES SHEET.



DETAIL D



DETAIL E

INTERMEDIATE DIAPHRAGM STRUCTURAL STEEL

ONE CONNECTION DETAIL "E"

2 - ⅞"Φx LENGTH H.S. BOLTS WITH NUTS AND WASHERS

WEB THICKNESS	LENGTH OF H.S. BOLTS	WEIGHT PER DETAIL "E"	NUMBER OF DETAIL "E"	WEIGHT
9"	12"	5.34 LBS.	21	112
2 - L 6 x 4 x ½ x 1'-3¼ =		41.2 LBS.	21	865

ONE CONNECTION DETAIL "D"

2 - ⅞"Φx LENGTH H.S. BOLTS WITH NUTS AND WASHERS

WEB THICKNESS	LENGTH OF H.S. BOLTS	WEIGHT PER DETAIL "D"	NUMBER OF DETAIL "D"	
9"	12"	5.34 LBS.	6	32
1 - BACKING PL 4 x ⅜ x 1'-3¼ =		6.5 LBS.	6	39
1 - L 6 x 4 x ½ x 1'-3¼ =		20.6 LBS.	6	124

ONE C15 x 33.9 DIAPHRAGM

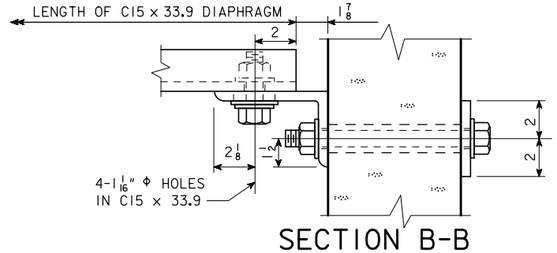
BEAM SPACING / WEB THICKNESS	7'-1 LENGTH	UNIT WEIGHT (LBS.)							
9"	6'-0⅝	205.2							

DIAPHRAGM WEIGHTS

UNIT WEIGHT	NUMBER OF DIAPHRAGMS	
205.2 LBS.	24	4925

DIAPHRAGM CONNECTION BOLTS

8 - ⅞"Φ x 0'-2¾ H.S. BOLTS WITH NUTS AND WASHERS, PER UNIT DIAPHRAGM	NUMBER OF DIAPHRAGMS	
10.3 LBS.	24	247
INTERMEDIATE DIAPHRAGM STRUCTURAL STEEL (TOTAL LBS.)		6344



SECTION B-B

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

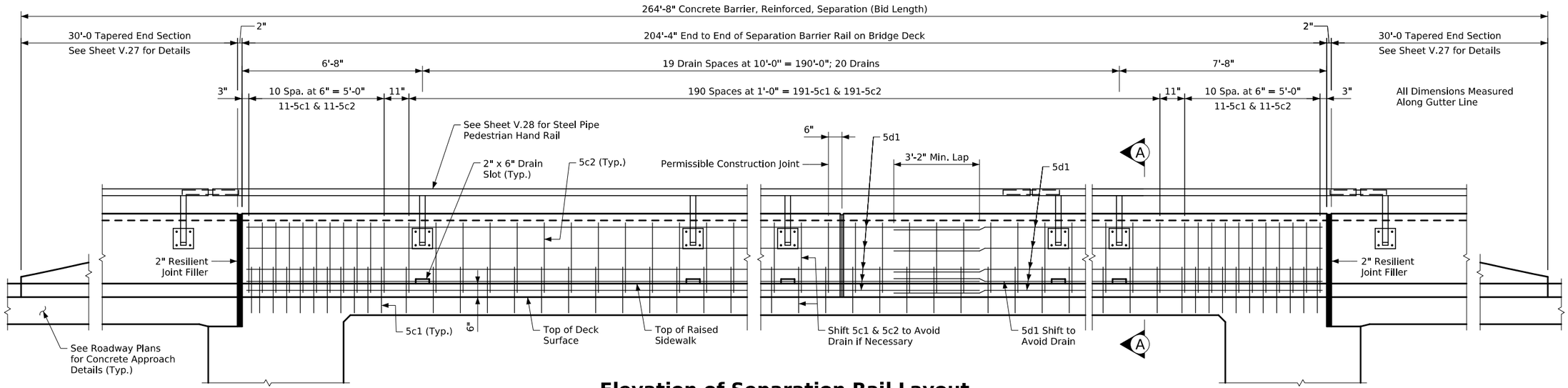
Intermediate Diaphragm Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.24 of V.35 FHWA No. 505820

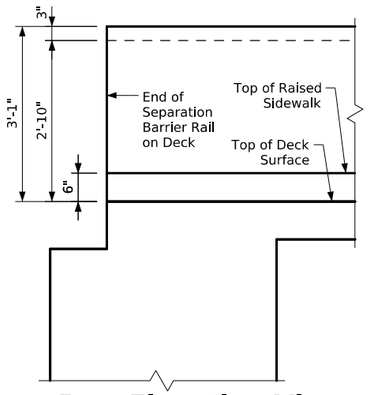


South Abutment

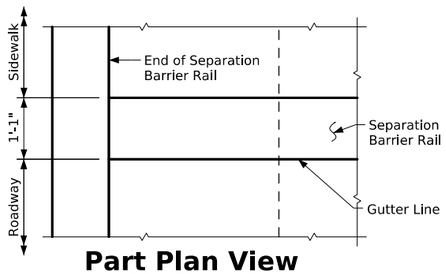
Elevation of Separation Rail Layout

(East Rail Shown, West Rail Similar; Looking West)
(Form Liner Not Shown)

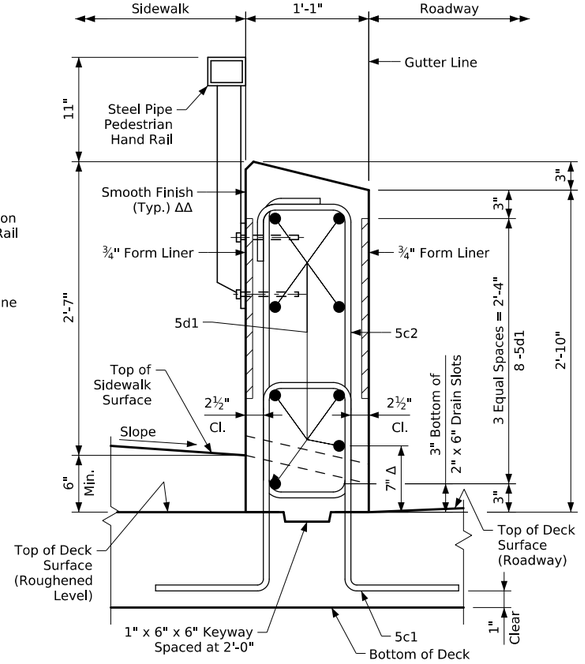
North Abutment



Part Elevation View at Approach



Part Plan View No Skew



Section A-A

Δ = Shift 5d1 to Avoid Drain Slot

ΔΔ All exposed surfaces of separation barrier rail shall have a smooth finish except areas designated to have form liner.

Note:
See Sheets V.6 and V.7 for separation rail aesthetic notes and details.

See Sheet V.26 for additional separation rail details, notes, and quantities.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Separation Barrier Rail Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.25 of V.35 FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.25

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Separation Barrier Notes:

Maintain a minimum clear distance of 2" from the concrete face to the nearest reinforcing bar, unless otherwise specified.

Construct permissible construction joints between vertical bars with a minimum spacing of 20 feet, ensuring a minimum distance of 1'-0" from the centerline of any handrail post. Apply an approved bond breaker on construction joint contact surfaces.

The cost of joint sealer and bond breaker is considered incidental to overall construction expenses.

All barrier rail reinforcing steel to be epoxy coated or stainless steel as shown.

Exposed surfaces of the separation barriers as designated in these plans shall require a smooth finish in the final result after form removal and performance of a Class 2 strip down surface finish in accordance with the Standard Specifications. When all forming, stripping, and finishing operations are complete, areas designated "Smooth Finish" in the plans shall show no wood grain or other texture from the face of the forms used. All costs for repair or covering of wood grain or other textures on these surfaces shall be the responsibility of the Contractor.

If form ties are used in smooth finish areas, arrange ties to be regularly spaced and in a consistent geometric grid pattern. Perform patching of tie holes and other voids so that patch matches or is slightly lighter than surrounding concrete when dry. Use white cement to lighten the patching mix.

Bid for Concrete Barrier, Reinforced, Separation on a lineal foot basis. Payment will be made at the contract priced per linear foot based on plan quantities. The bid includes all material, equipment, and labor for concrete rail construction, including conduit if shown in these plans. Reinforcing steel and form liner quantity not included and bid separately.

Use a light gray nonsag latex caulking sealer designed for outdoor use as the joint sealer. No testing or certification is required.

Ensure the top of the barrier rail aligns parallel to the theoretical centerline grade.

Fillet all exposed corners with a ¾" dressed and beveled strip for corners with a 90 degree or sharper angle.

The cross-sectional area of the separation barrier is 3.21 square feet.

See Sheets V.6 and V.7 for separation rail aesthetic notes and details.

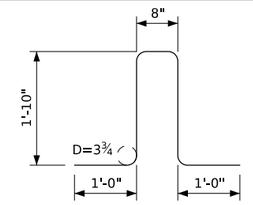
Epoxy-Coated Reinforcing Steel
One Separation Barrier

Bar	Location	Shape	No.	Length	Weight
5c2	Separation Barrier, Vertical		213	7'-6"	1666
5d1	Separation Barrier, Longitudinal		48	36'-8"	1836
				Epoxy-Coated Reinforcing Steel Total (lbs)	3502

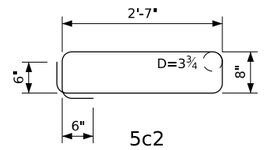
Stainless Steel Reinforcing
One Separation Barrier

Bar	Location	Shape	No.	Length	Weight
5c1	Separation Barrier, Vertical		213	6'-4"	1407
				Stainless Steel Reinforcing Total (lbs)	1407

Bent Bar Details



5c1



5c2

Note: All dimensions are out to out. D = Pin Diameter

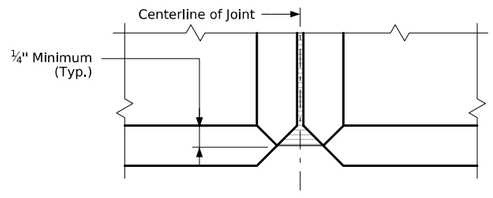
Concrete Placement Summary - One Rail

Section		Total
Standard Section	204'-4"' @ 0.119 cu. yd. per ft.	24.3

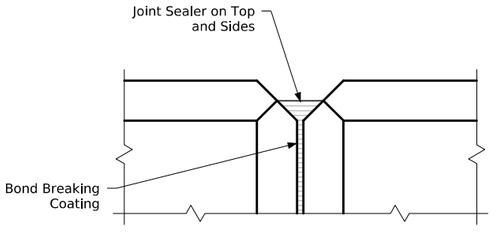
Concrete Separation Barrier Quantity

Section		Unit	Total
Concrete Barrier, Reinforced, Separation	(2 at 264.7')	L.F.	529.4

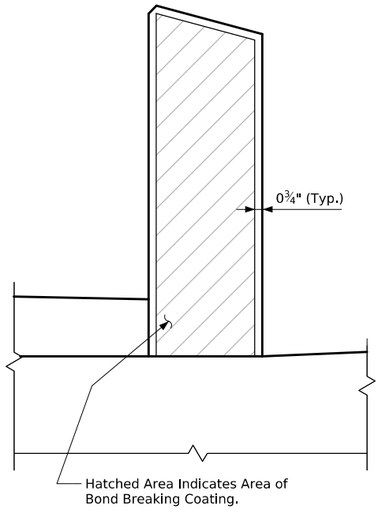
Note:
Reinforcing Steel quantities are included on the Summary Quantities Sheet.



Part Plan View



Part Elevation View



Part Section

Separation Barrier Rail Joint Details

(Permissible Construction Joint, Form Liner Not Shown)

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Separation Barrier Rail Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

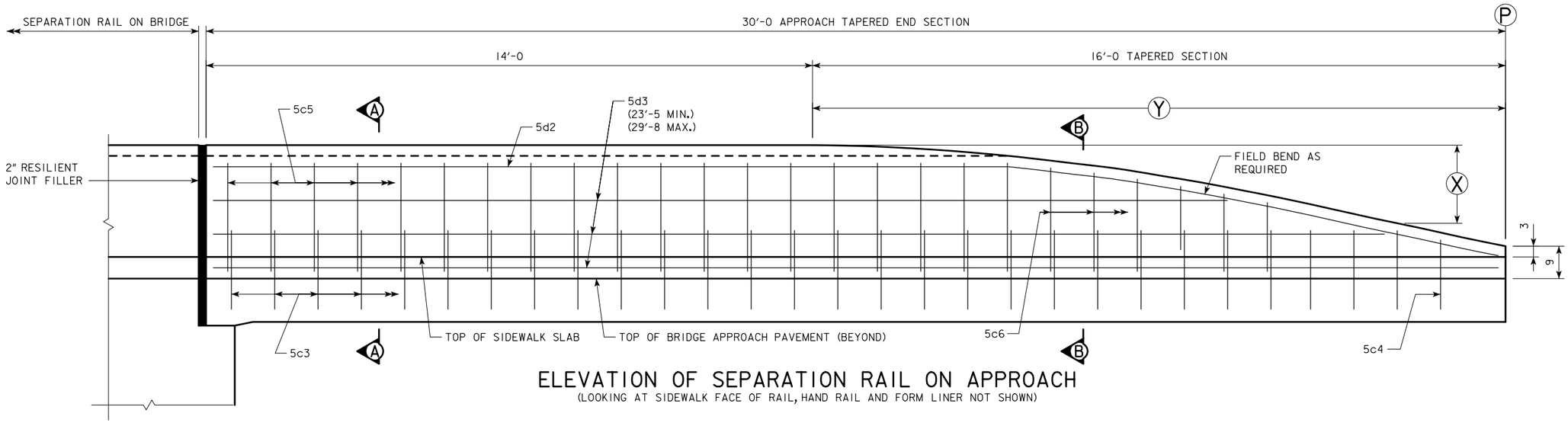
Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.26 of V.35 FHWA No. 505820

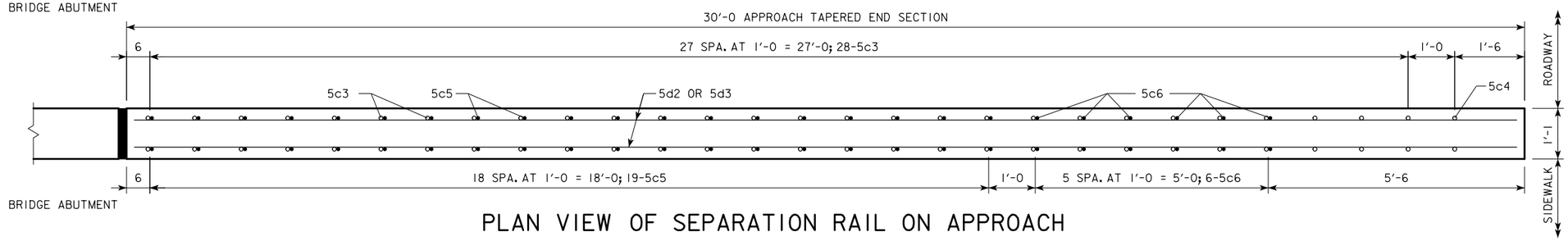
FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.26

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ELEVATION OF SEPARATION RAIL ON APPROACH

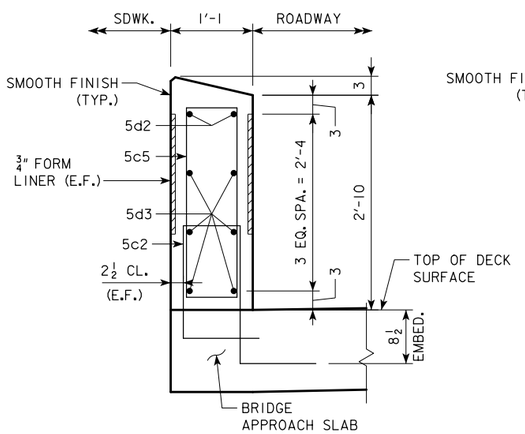
(LOOKING AT SIDEWALK FACE OF RAIL, HAND RAIL AND FORM LINER NOT SHOWN)



PLAN VIEW OF SEPARATION RAIL ON APPROACH

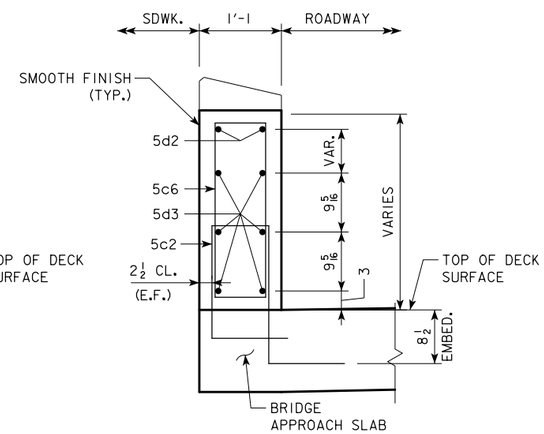
OFFSETS FOR ROUNDED BARRIER TOP

Y = DISTANCE FROM (P)	1'-0	2'-0	3'-0	4'-0	5'-0	6'-0	7'-0	8'-0	9'-0	10'-0	11'-0	12'-0	13'-0	14'-0	15'-0	16'-0
X = OFFSET TO ROUNDED TOP	2.13	1.91	1.70	1.48	1.26	1.06	0.87	0.70	0.54	0.42	0.30	0.20	0.12	0.06	0.02	0.00



SECTION A-A

(HAND RAIL AND SIDEWALK NOT SHOWN)



SECTION B-B

(HAND RAIL AND SIDEWALK NOT SHOWN)

REINF. BAR LIST - ONE APPROACH RAIL

	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
EPOXY	5c5	RAIL, VERTICAL		19	7'-6	149
	5c6	RAIL, VERTICAL		6	6'-6	41
	5d2	RAIL, LONGITUDINAL, TOP	——	2	29'-10	62
	5d3	RAIL, LONGITUDINAL	——	6	VARIES	166
				EPOXY STEEL TOTAL (LBS.)		418
S.S.	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
	5c3	BRIDGE APPR. TO RAIL, VERTICAL		28	6'-0	175
	5c4	BRIDGE APPR. TO RAIL, VERTICAL		1	5'-6	6
				STAINLESS STEEL TOTAL (LBS.)		181

CONC. PLACEMENT SUMMARY - ONE APPR. RAIL

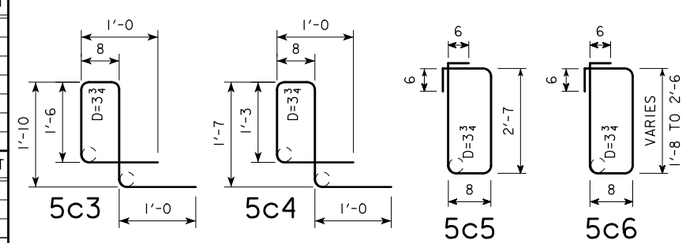
SECTION	TOTAL
APPROACH TAPERED END SECTION	3.1
TOTAL (CU. YD.)	3.1

NOTES:
THE 5c3 AND 5c4 BARS ARE TO BE PLACED WITH THE BRIDGE APPROACH SLAB.
SEE ROADWAY PLANS.

SEE SHEETS V.6 AND V.7 FOR SEPARATION RAIL AESTHETIC NOTES AND DETAILS.

SEE SHEET V.26 FOR ADDITIONAL SEPARATION BARRIER RAIL NOTES.

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER.

NOTE:
REINFORCING STEEL QUANTITIES ARE INCLUDED ON THE SUMMARY QUANTITIES SHEET.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

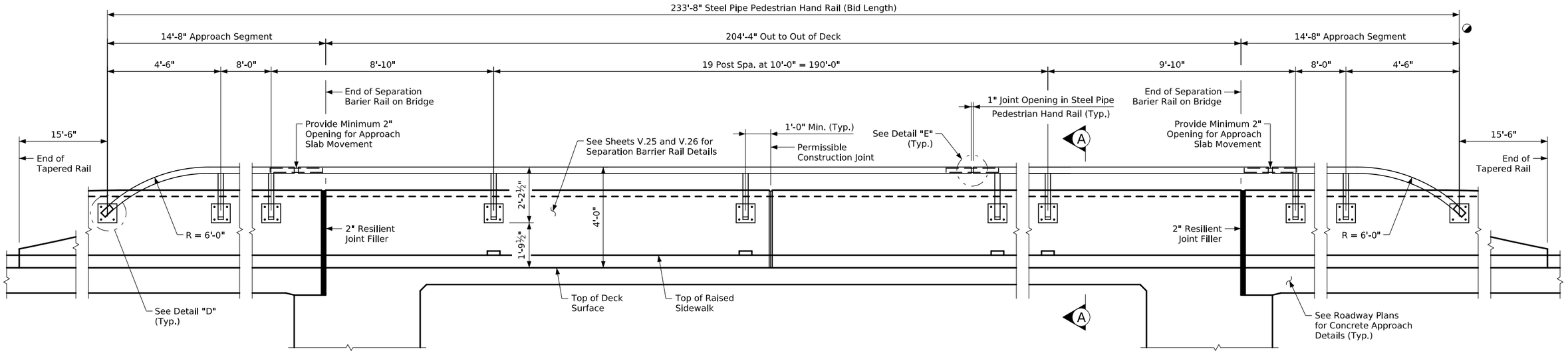
Approach Separation Rail Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.27 of V.35 FHWA No. 505820



South Abutment

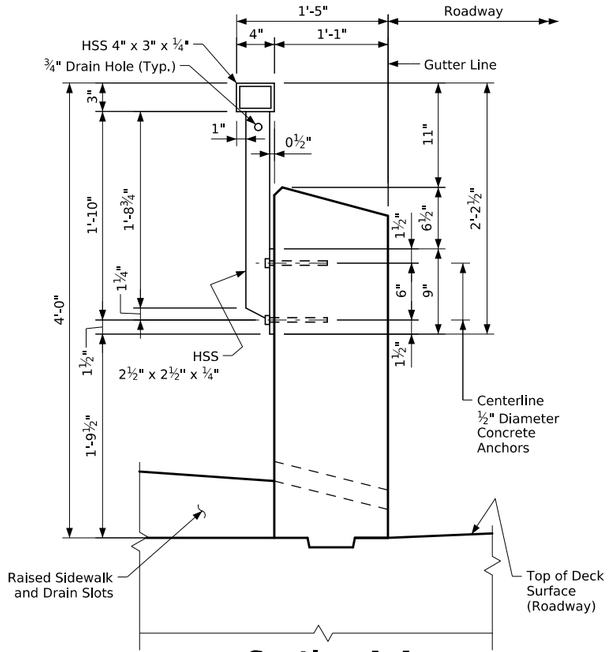
North Abutment

Elevation of Steel Pipe Pedestrian Hand Rail Layout

(East Rail Shown, West Rail Similar; Looking West)
(Form Liner Not Shown)

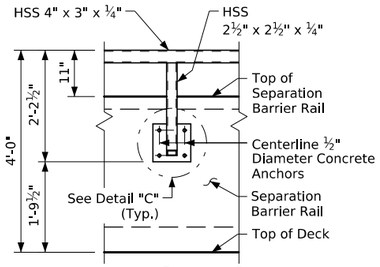
Pedestrian Hand Rail Placement Quantity

Item		Unit	Total
Steel Pipe Pedestrian Hand Rail	(2 at 233.7')	L.F.	467.4

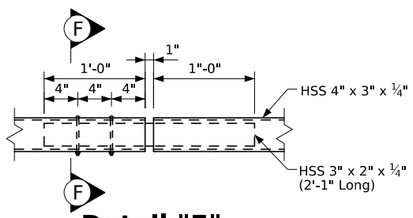


Section A-A (Hand Rail Detail)

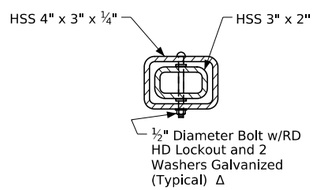
(Form Liner Not Shown)



Part Elevation

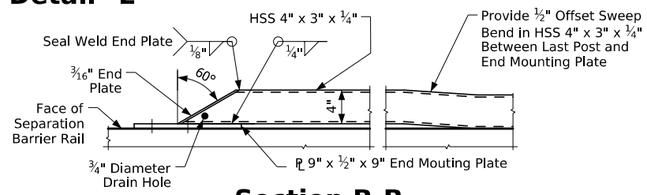


Detail "E"

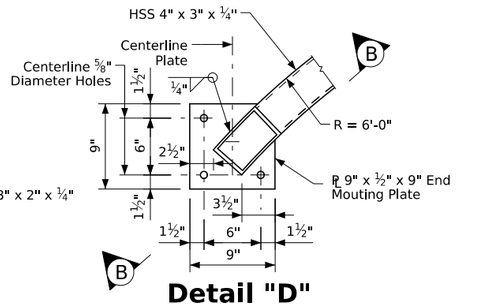


Section F-F

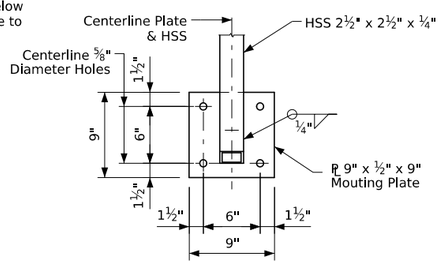
Note:
Δ Space inner sleeve from outer tube with tack weld standard washer above and below sleeve at each bolt. Holes in inner sleeve to be ¾" diameter oversized holes.



Section B-B



Detail "D"



Detail "C"

Steel Pipe Pedestrian Hand Rail Notes

The Steel Pipe Pedestrian Hand Rail is to be bid on a lineal foot basis measured end to end of rail. The price bid for Steel Pipe Pedestrian Hand Rail shall be full compensation for furnishing all material, including anchor bolts and shims, and all of the equipment and labor required to erect the rail in accordance with these plans and specifications.

Hollow structural sections must meet the requirements of ASTM A500 Grade B. Steel plates and shims must meet ASTM A-36. Panels, splice sections, and end sections are to be galvanized after fabrication in accordance with ASTM A123 specifications

Ends of rail sections are to be sawed or milled. All cut ends are to be true, smooth, and free of burrs or ragged edges.

No painting will be required.

The stud concrete anchors shall be galvanized and have a minimum pull out strength of 8000 pounds based on 4000 psi concrete.

◕ Dimensions provided are along the back face of the separation barrier rail (Sidewalk Side) and are in the horizontal plane only. The Contractor must adjust for slope and vertical curve to align with the horizontal and vertical alignment of the bridge. Posts shall be set normal to the bridge grade.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

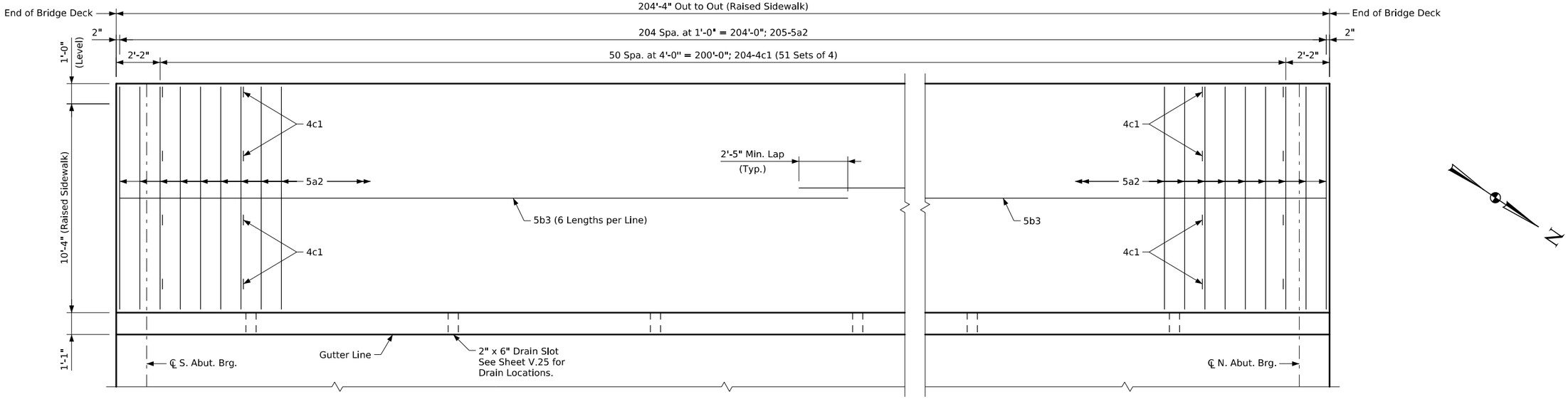
Pedestrian Hand Rail Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

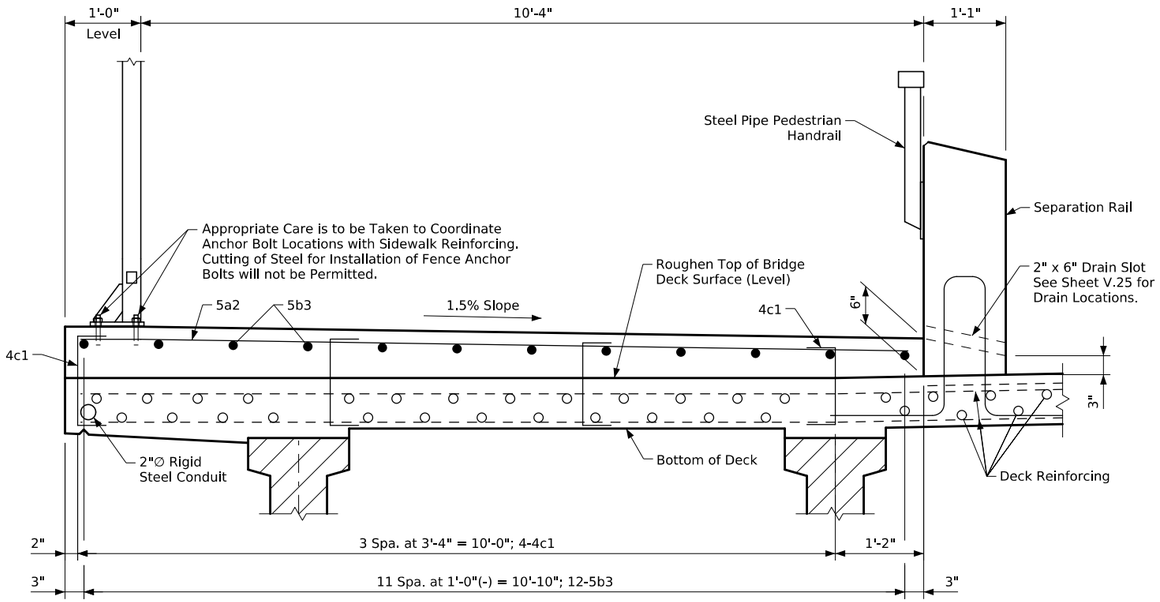
IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.28 of V.35 FHWA No. 505820



Raised Sidewalk Reinforcing Plan View

(West Sidewalk Shown, East Sidewalk Similar)



Typical Section thru Raised Sidewalk

Sidewalk Concrete Placement and Finishing Notes:

Miniumum clear distance from face of concrete to near reinforcing baris to be 2" unless otherwise noted or shown.

All exposed corners 90° or sharper are to be filleted with a ¾" dressed and beveled strip.

Position screed, and finish the sidewalk concrete to match the cross slope figure(s) specified in the plans. The maximum allowable cross slope on the sidewalk shall not exceed 2%.

After broom finishing the sidewalk surface, administer a white-pigmented liquid curing compound to the sidewalk as per Section 2301.03, K, 2 of the Standard Specifications. Avoid additional curing methods involving fabric, plastic, or other covers during the initial curing period. Coverings shall be applied only after the surface has adequately set to prevent damage to the broom finish.

The Contractor is responsible for all costs associated with correcting sidewalk surface cross slope or any damage to the surface finish, and shall be made at no additional cost to the project.

The reinforcing for the sidewalk slab is included with the deck reinforcing.

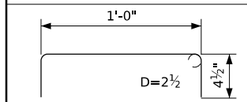
The Contractor shall take appropriate care to coordinate placement of raised slab ties to ensure bars do not shift during placement of deck concrete and specified clear cover is maintained for raised slab concrete placement.

Note:
5a2 and 4c1 bars may be shifted slightly and 5b3 bars may be field cut as required to accomodate 2"∅ rigid steel conduit at light pole column locations. See Sheet V.31 for light pole column and conduit details.

Epoxy-Coated Reinforcing Steel One Raised Sidewalk

Bar	Location	Shape	No.	Length	Weight
5a2	Sidewalk Transverse	——	205	11'-0"	2352
5b3	Sidewalk Longitudinal	——	72	36'-1"	2710
4c1	Sidewalk Tie	⌐¬	204	1'-9"	238
				Epoxy-Coated Reinforcing Steel Total (lbs)	5300

Bent Bar Details



4c1

Note: All dimensions are out to out. D = Pin Diameter

Concrete Placement Quantity - One Sidewalk

Item	Unit	Total
Structural Concrete (Bridge)	cu. yd.	52.0

Note:
Concrete and Reinforcing Steel Quantities are included on the Summary Quantities Sheet.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

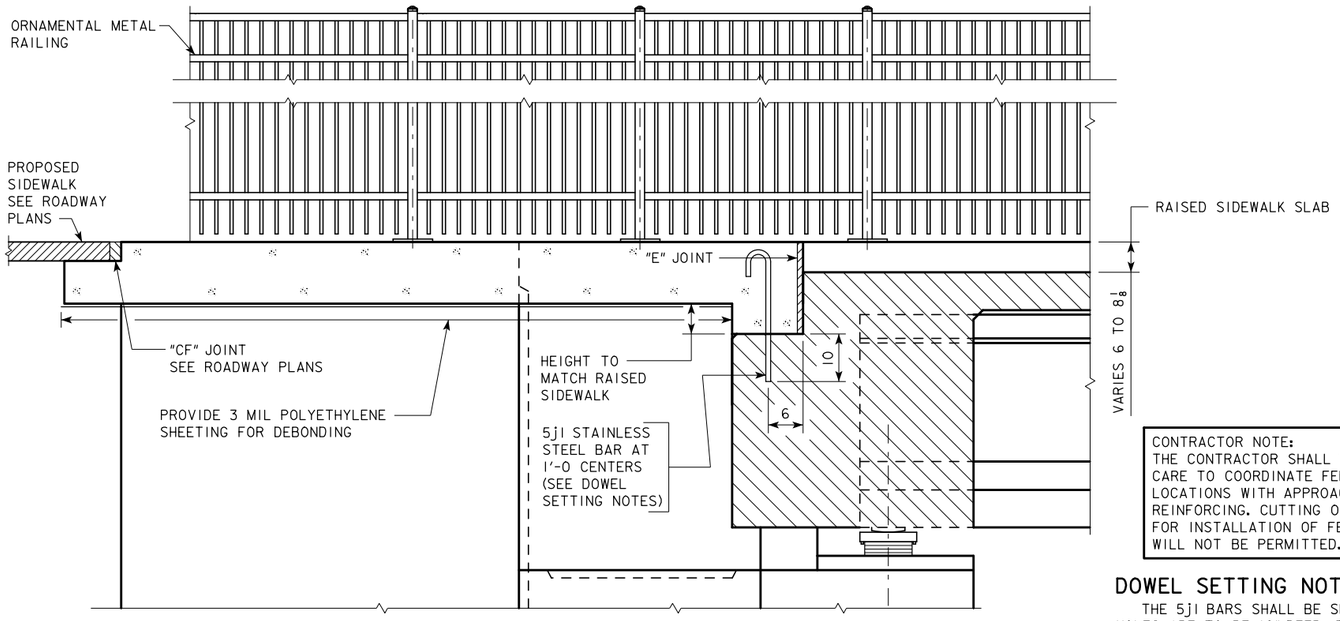
Raised Sidewalk Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

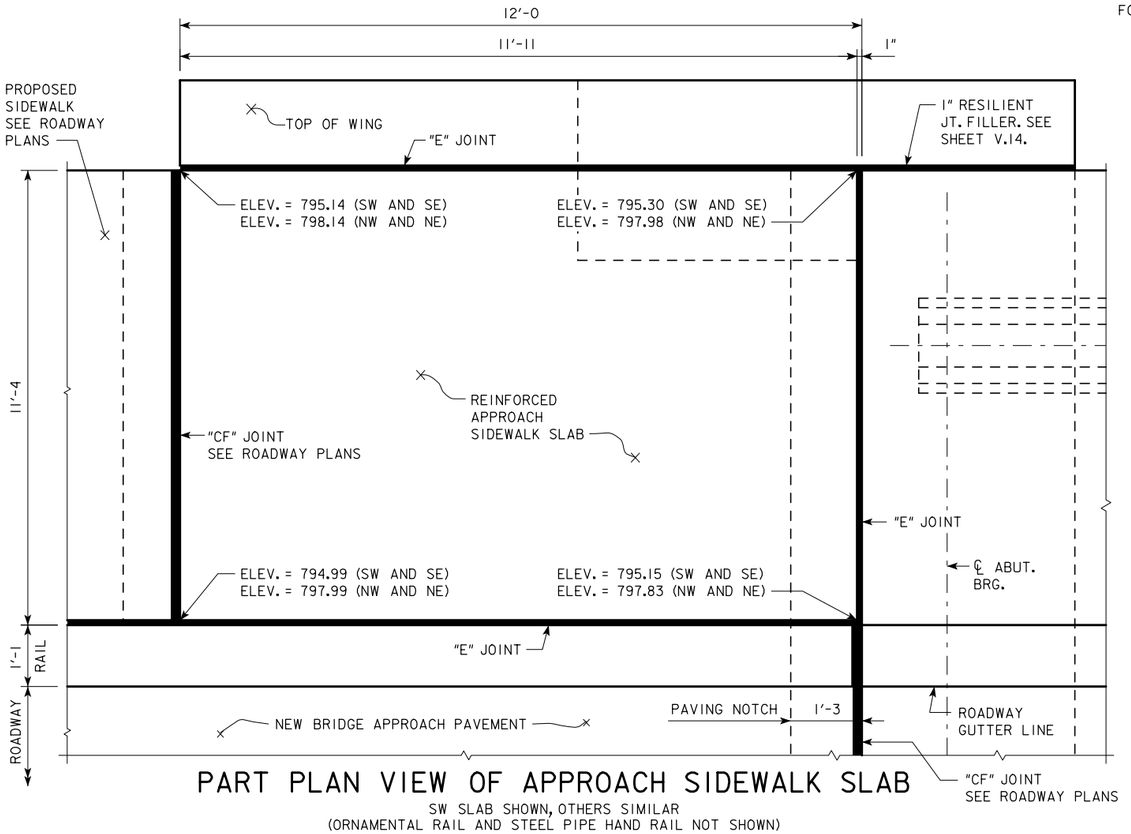
Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.29 of V.35 FHWA No. 505820



PART LONGITUDINAL SECTION THRU APPROACH SIDEWALK SLAB



PART PLAN VIEW OF APPROACH SIDEWALK SLAB

SW SLAB SHOWN, OTHERS SIMILAR
(ORNAMENTAL RAIL AND STEEL PIPE HAND RAIL NOT SHOWN)

REINFORCING BAR LIST-ONE APPROACH SIDEWALK SLAB

EPOXY BARS

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
5e1	APPROACH SIDEWALK SLAB HOOPS		12	25'-7	320
4e2	APPROACH SIDEWALK SLAB HOOPS AT SIDEWALK LIP		12	4'-1	33
4e3	APPROACH SIDEWALK SLAB HOOPS AT PAVING NOTCH		12	5'-3	42
5m1	APPROACH SIDEWALK SLAB TRANSV. TOP & BOTTOM	—	31	10'-11	353
	EPOXY COATED REINFORCING STEEL TOTAL (LBS.)				748

REINFORCING BAR LIST-ONE APPROACH SIDEWALK SLAB

S.S. BARS

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
5j1	APPROACH SIDEWALK SLAB DOWEL BAR		12	2'-5	30
	STAINLESS REINFORCING STEEL TOTAL (LBS.)				30

CONTRACTOR NOTE:
THE CONTRACTOR SHALL TAKE APPROPRIATE CARE TO COORDINATE FENCE ANCHOR BOLT LOCATIONS WITH APPROACH SIDEWALK SLAB REINFORCING. CUTTING OF REINFORCING STEEL FOR INSTALLATION OF FENCE ANCHOR BOLTS WILL NOT BE PERMITTED.

DOWEL SETTING NOTE :

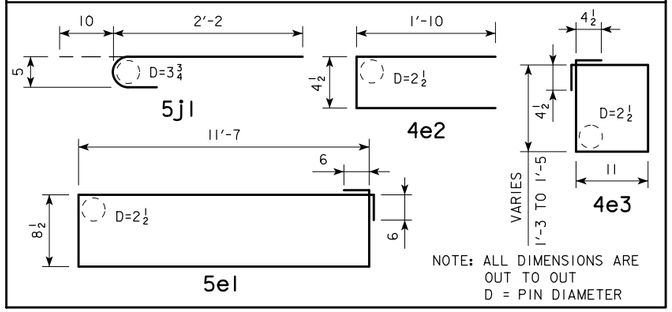
THE 5j1 BARS SHALL BE SET AS DOWELS IN DRILLED HOLES. HOLES ARE TO BE 10" DEEP. THE DOWELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ONE OF THE FOLLOWING SYSTEMS SHALL BE USED AS A BONDING AGENT FOR THE DOWELS :

A. POLYMER GROUT SYSTEM IN ACCORDANCE WITH ARTICLE 2301.03, E, OF THE STANDARD SPECIFICATIONS.
B. HYDRAULIC CEMENT GROUT SYSTEMS. DRILLED HOLES ARE TO BE 2½ TIMES THE DOWEL DIAMETER AND ARE TO BE BLOWN CLEAN WITH COMPRESSED AIR IMMEDIATELY PRIOR TO PLACING GROUT. THE HYDRAULIC CEMENT GROUT SHALL BE ONE OF THOSE APPROVED IN MATERIALS I.M. 491.13 AND SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

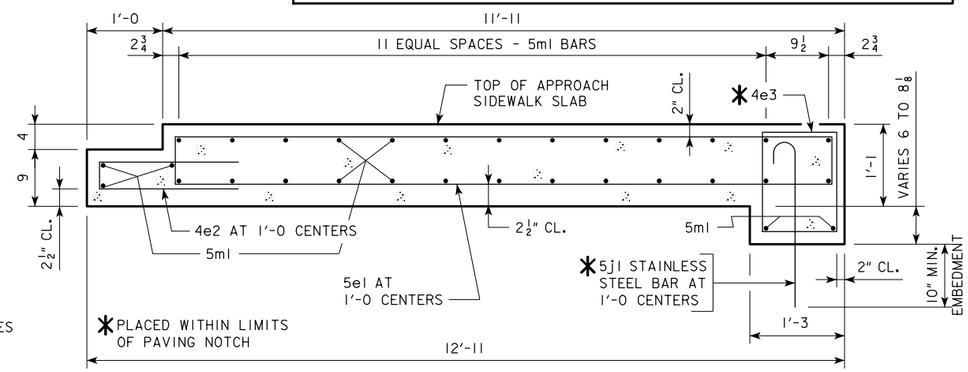
5j1 DOWELS SHALL BE DEFORMED BAR GRADE 60, TYPE 316 LN IN ACCORDANCE WITH STANDARD SPECIFICATIONS 4151.03.E.

NOTE: REINFORCING STEEL QUANTITIES ARE INCLUDED ON THE SUMMARY QUANTITIES SHEET.

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT
D = PIN DIAMETER



NOTE:
CONDUIT FOR LIGHT POLES NOT SHOWN. SEE SHEET V.31 CONDUIT DETAILS.

LONGITUDINAL SECTION OF APPROACH SIDEWALK SLAB

CONCRETE PLACEMENT QUANTITY

ITEM	UNIT	QUANTITY
STRUCTURAL CONCRETE (BRIDGE) 4 @ 6.0 CY	CU.YD.	24.0

NOTE: COST OF "E" JOINT MATERIAL AND POLYETHYLENE SHEETING IS CONSIDERED INCIDENTAL TO THE COST OF STRUCTURAL CONCRETE (BRIDGE).

NOTE: CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Raised Approach Sidewalk Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

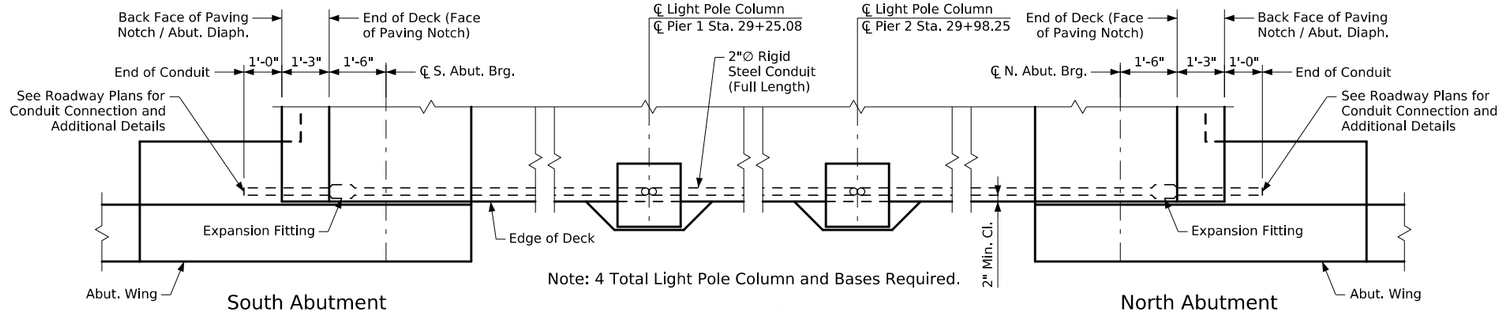
Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.30 of V.35 FHWA No. 505820

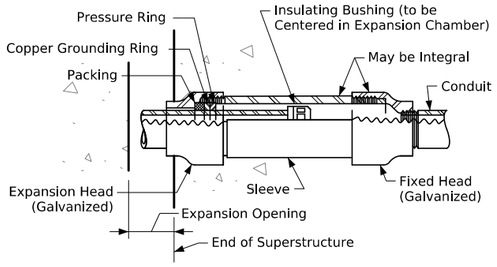
FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.30

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Part Plan

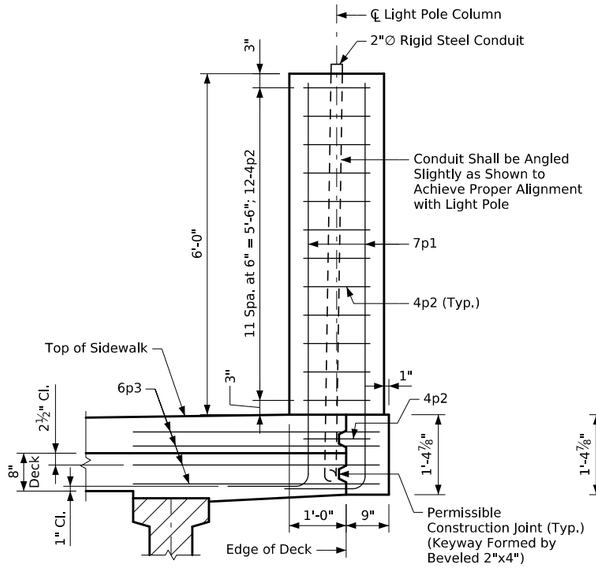
(East Side Shown, West Side Similar)
(Showing Conduit and Light Pole Column Locations)



Expansion Chamber Length is 4" min.

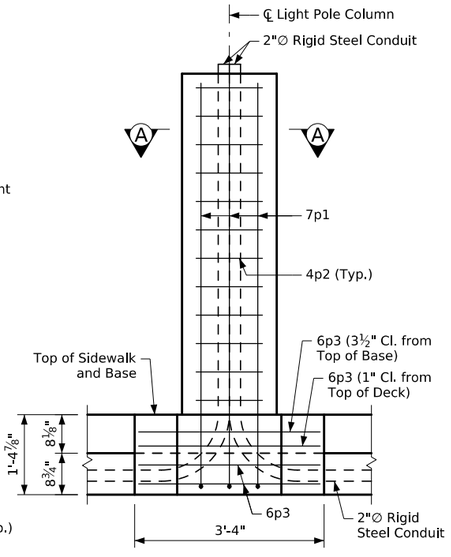
Expansion Fitting Detail

(4 Required)



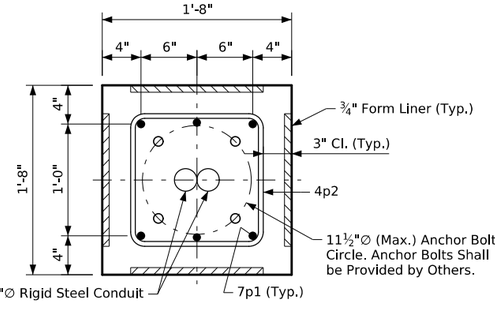
Section Thru Pole Column and Base

(Deck and Sidewalk Reinforcing Bars Not Shown)
(Form Liner and Anchor Bolts Not Shown)

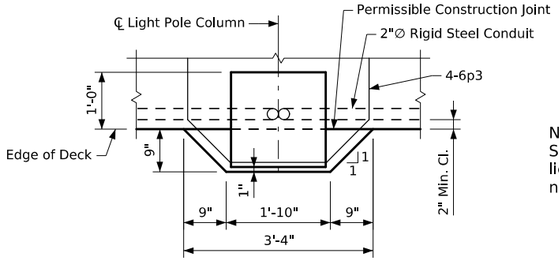


End Elevation

(Deck and Sidewalk Reinforcing Bars Not Shown)
(Form Liner and Anchor Bolts Not Shown)



Section A-A



Plan of Pole Base Reinforcing

(Deck, Sidewalk, and Column Reinforcing Bars Not Shown)
(Form Liner Not Shown)

Note:
See Sheets V.6 and V.7 for light pole column aesthetic notes and details.

Lighting Notes:

Construction shall conform to the current Iowa D.O.T. Standard and Supplemental Specifications and Special Provisions.

Conduit installation shall be in accordance with Article 2523.03, N, of the Standard Specifications.

The rigid steel conduit and fittings including labor and any additional work to do the installation is considered incidental to the cost of Structural Concrete (Bridge).

Cost of furnishing and installing poles, lights, and lighting conductor is not a part of this contract. Cost of furnishing light pole anchors is not a part of this contract. Cost of installing light pole anchors is considered incidental to the cost of Structural Concrete (Bridge). Contractor shall coordinate with light pole manufacterer to obtain anchor bolts prior to pouring light pole columns.

Expansion fitting shall be as specified or as approved by the Engineer. Typical details are shown on this sheet.

All anchor bolt material shall comply with the requirements of Iowa DOT Construction and Materials I.M. 453.08 and Standard Specifications 4185.02,B,2.

Welding of anchor bolts shall not be allowed. The Contractor shall obtain a template from the Manufacturer / Fabricator for proper placement of the anchor bolts.

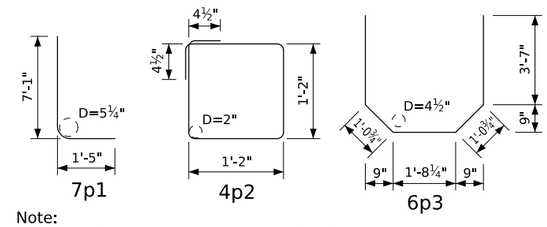
All reinforcing steel is to be epoxy coated and grade 60.

Stainless-steel reinforcement shall not be allowed to be in contact with the uncoated reinforcement, bare metal forming hardware, or to galvanized attachments or galvanized conduit.

Epoxy Coated Reinforcing Steel - One Light Pole Column and Base

Bar	Location	Shape	No.	Length	Weight
7p1	Pole Column Vertical Dowel	L	6	8'-6"	104
4p2	Pole Column Hoop	▯	13	5'-5"	47
6p3	Pole Base to Deck Anchors	U	4	11'-0"	66
	Epoxy Coated Reinforcing Steel - Total Weight (lbs.)				217

Bent Bar Details



Note:
All dimensions are out to out. D = Pin Dia.

Concrete Placement Quantities One Light Pole Column and Base

Location	Total
Light Pole Column	0.6
Light Pole Base	0.1
Structural Concrete (Bridge) - Total (Cu. Yds.)	0.7

Note:
Concrete and Reinforcing Steel Quantities are included on the Summary Quantities Sheet.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

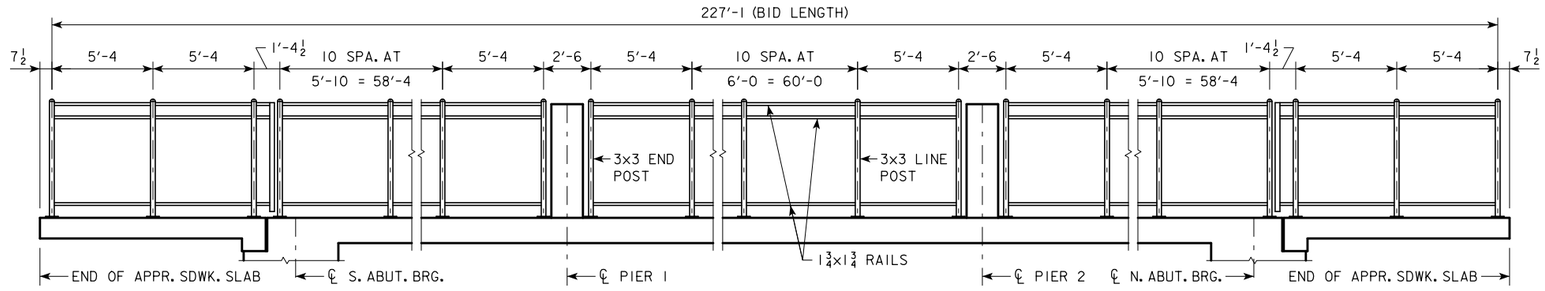
Light Pole Column and Conduit Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

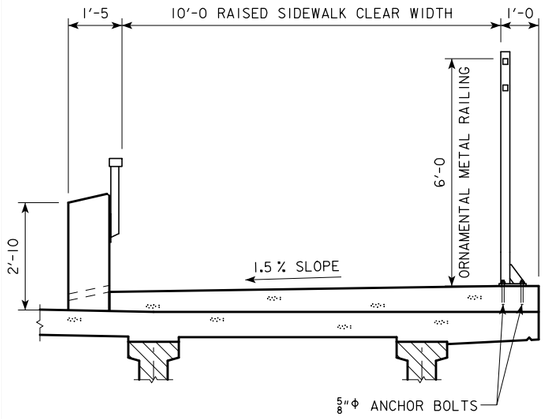
IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.31 of V.35 FHWA No. 505820

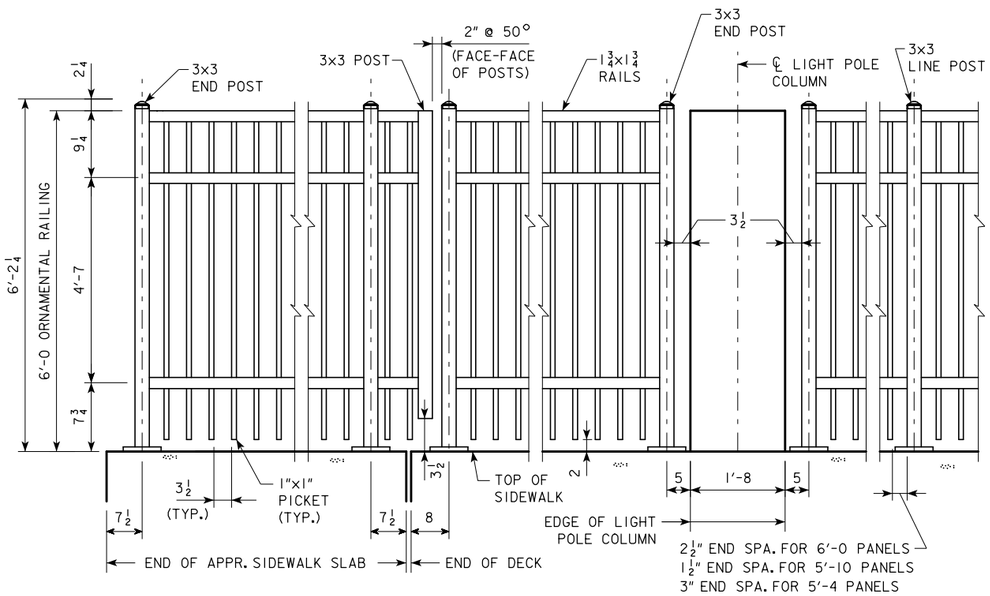


NOTE:
ALL POSTS SHALL BE SET VERTICAL. SHIM WHERE REQUIRED.

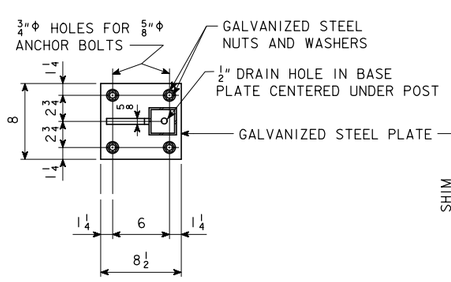
ELEVATION OF RAILING

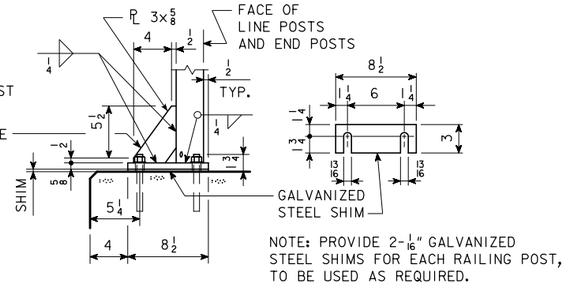


TYPICAL SECTION



TYPICAL ELEVATION OF ORNAMENTAL METAL RAILING





NOTE: PROVIDE 2-1/16" GALVANIZED STEEL SHIMS FOR EACH RAILING POST, TO BE USED AS REQUIRED.

BASE PLATE DETAILS FOR END POST AND LINE POSTS

NOTE : POSTS AND BASE PLATES SHALL BE GALVANIZED, AFTER FABRICATION, IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A-123.

ORNAMENTAL METAL RAILING NOTES:

THE RAILING IS TO BE BID ON A LINEAL FOOT BASIS MEASURED FROM CENTERLINE TO CENTERLINE OF END POSTS. THE ORNAMENTAL METAL RAILING SHALL BE A THREE-RAIL PATTERN BY APPROVED MANUFACTURERS AS FOLLOWS:

1. AMERISTAR "AEGIS II XTREME"
2. MERCHANTS METALS "INDUSTRIAL GUARDSMAN MONROE"
3. MASTER HALCO "INDEPENDENCE"
4. APPROVED EQUAL

THE BASE PLATE AND STIFFENERS FOR THE RAILING POSTS SHALL MATCH DETAILS SHOWN ON THESE PLANS. THE BASE PLATE AND STIFFENERS SHALL BE FABRICATED WITH THE POSTS PRIOR TO THE FINISHING PROCESS.

FIELD CUTTING OF PANELS IS NOT PERMITTED. ALL POSTS SHALL BE SET VERTICAL.

THE RAILING COLOR SHALL BE BLACK.

SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW BY THE ENGINEER. THE SHOP DRAWING SUBMITTAL SHALL INCLUDE MANUFACTURER'S DOCUMENTATION OF COMPLIANCE WITH AASHTO BRIDGE DESIGN SPECIFICATIONS 8TH EDITION, SERIES OF 2017. IN ADDITION, THE SUBMITTAL SHALL INCLUDE POST SPACINGS, PANEL WIDTHS, MEMBER SIZES, MEMBER MATERIAL SPECIFICATIONS, PAINT FINISH PROCESS DOCUMENTATION, RAILING AND FINISH WARRANTY DATA, AND POST ANCHOR BOLTS.

THE CONTRACTOR MAY SUBMIT ALTERNATE MANUFACTURER'S DESIGNS AND PANEL LAYOUTS FOR APPROVAL. NON-PROPRIETARY ALTERNATE RAILS SHALL BE FINISHED IN ACCORDANCE WITH GALVANIZING AND POWDER COATING NOTES INCLUDED IN THESE PLANS. ALTERNATE RAILING PRODUCT SUBMISSIONS SHALL BE IN GENERAL COMPLIANCE WITH THE RAILING GEOMETRY DETAILED ON THIS PLAN. SHOP DRAWING SUBMITTALS FOR ALTERNATE RAILING PRODUCTS OR PROPOSED FABRICATED ALTERNATES SHALL, AT A MINIMUM, INCLUDE ALL SUBMITTAL INFORMATION AS NOTED ABOVE.

ANCHOR BOLTS SHALL BE FULLY THREADED AND COMPLY WITH ASTM F-1554 GRADE 55. HEX NUTS SHALL COMPLY WITH ASTM A563-DH. WASHERS SHALL COMPLY WITH ASTM F-436. ANCHOR BOLTS, NUTS, AND WASHERS ARE TO BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

THE ANCHOR BOLTS SHALL BE SET IN DRILLED HOLES. THE HOLES ARE TO BE A MINIMUM OF 5" DEEP. THE EPOXY GROUT SYSTEM TO BE USED AS THE BONDING AGENT SHALL BE IN ACCORDANCE WITH ARTICLE 2301.03, E, OF THE STANDARD SPECIFICATIONS AND CURRENT SUPPLEMENTAL SPECIFICATIONS. THE MATERIALS TO BE USED SHALL ALSO BE IN ACCORDANCE WITH THE ADHESIVE MANUFACTURER'S REQUIREMENTS AND BE CAPABLE OF OBTAINING AN ULTIMATE LOAD PER BOLT OF 12 KIPS IN TENSION. SUBMIT EVIDENCE OF THE PROPOSED EPOXY ADHESIVE ANCHORAGE SYSTEM'S ABILITY TO DEVELOP THIS LOAD TO THE ENGINEER FOR APPROVAL PRIOR TO USE. ANCHOR BOLT INSTALLATION, INCLUDING HOLE SIZE, DRILLING, AND CLEAN-OUT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

THE PRICE BID FOR "ORNAMENTAL METAL RAILING" SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, INCLUDING CONCRETE ANCHORS AND SHIMS, AND ALL OF THE EQUIPMENT AND LABOR REQUIRED TO ERECT THE RAILING IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

GALVANIZING AND POWDER COATING NOTES:

STEEL RAILING COMPONENTS SHALL BE ABRASIVE BLAST CLEANED TO A MINIMUM OF SSPC-SP6 "COMMERCIAL BLAST CLEANING" PRIOR TO HOT-DIP GALVANIZING. GALVANIZE COMPONENTS IN ACCORDANCE WITH ASTM A 123. DO NOT QUENCH OR APPLY CHROMATE CONVERSION COATINGS TO ANY GALVANIZED COMPONENTS THAT WILL RECEIVE POWDER COATING. FOLLOWING GALVANIZING, POWDER COAT COMPONENTS IN ACCORDANCE WITH MATERIALS I.M. 568.

PREPARATION OF GALVANIZED SURFACES FOR PAINT SHALL BE IN ACCORDANCE WITH MATERIALS I.M. 568, APPENDIX F. COMPLETE "PAINT OVER GALVANIZED SURFACE TRAVEL LOG" IN APPENDIX E.

ALL POWDER COATING EXCEPT FIELD TOUCH-UP SHALL BE PERFORMED IN AN APPROVED SHOP IN ACCORDANCE WITH MATERIALS I.M. 568.

SUBMIT PROPOSED PREPARATION METHODS AND PRODUCT DATA FOR ALL COATINGS PROPOSED FOR USE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO POWDER COATING. POWDER COATING SHALL MATCH SAE-AMS-STD-595 COLOR NUMBER 27038 (BLACK). SUBMIT POWDER COATING COLOR SAMPLE TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS.

PROTECT ALL POWDER COATED RAILING SURFACES FROM DAMAGE DURING SHIPPING, HANDLING, AND INSTALLATION.

FOLLOWING RAILING INSTALLATION, REPAIR ANY DAMAGE TO THE POWDER COATED FINISH IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS. SUBMIT THE POWDER COATING MANUFACTURER'S WRITTEN FIELD REPAIR AND RECOATING PROCEDURES TO THE ENGINEER PRIOR TO TOUCH-UP OPERATIONS. FOLLOWING FINAL INSTALLATION AND TOUCH-UP PAINTING, THE FINISHED SURFACES SHALL BE UNIFORM IN COLOR, SHEEN, TEXTURE AND HIDING ACROSS EACH CONTINUOUS SURFACE AREA WHEN VIEWED IN NATURAL DAYLIGHT AT NORMAL VIEWING ANGLES AND FROM DISTANCES NOT LESS THAN 39 INCHES FROM SURFACE. COMPONENTS DEEMED UNACCEPTABLE BY THE ENGINEER SHALL BE REMOVED AND RETURNED TO AN APPROVED POWDER COATING SHOP, AND SHALL BE COMPLETELY STRIPPED AND RECOATED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE PROJECT.

QUANTITIES

ITEM	UNITS	AMOUNT
ORNAMENTAL METAL RAILING (2 AT 227.1)	LIN. FT.	454.2

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Ornamental Metal Rail Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.32 of V.35 FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.32

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CONTROL POINT 23: NORTHING 3481884.65, EASTING 5434898.15, ELEV. 790.24, ½" IRON ROD WITH RED PLASTIC CAP.

SUBDRAIN NOTES:

THIS PLAN SHEET SHOWS DETAILS FOR PLACING ALL SUBDRAINS AND SUBDRAIN OUTLETS REQUIRED FOR THIS STRUCTURE.

THE SUBDRAINS SHALL BE 4" IN DIAMETER AND SHALL BE IN ACCORDANCE WITH ARTICLE 4143.01, B, OF THE STANDARD SPECIFICATIONS.

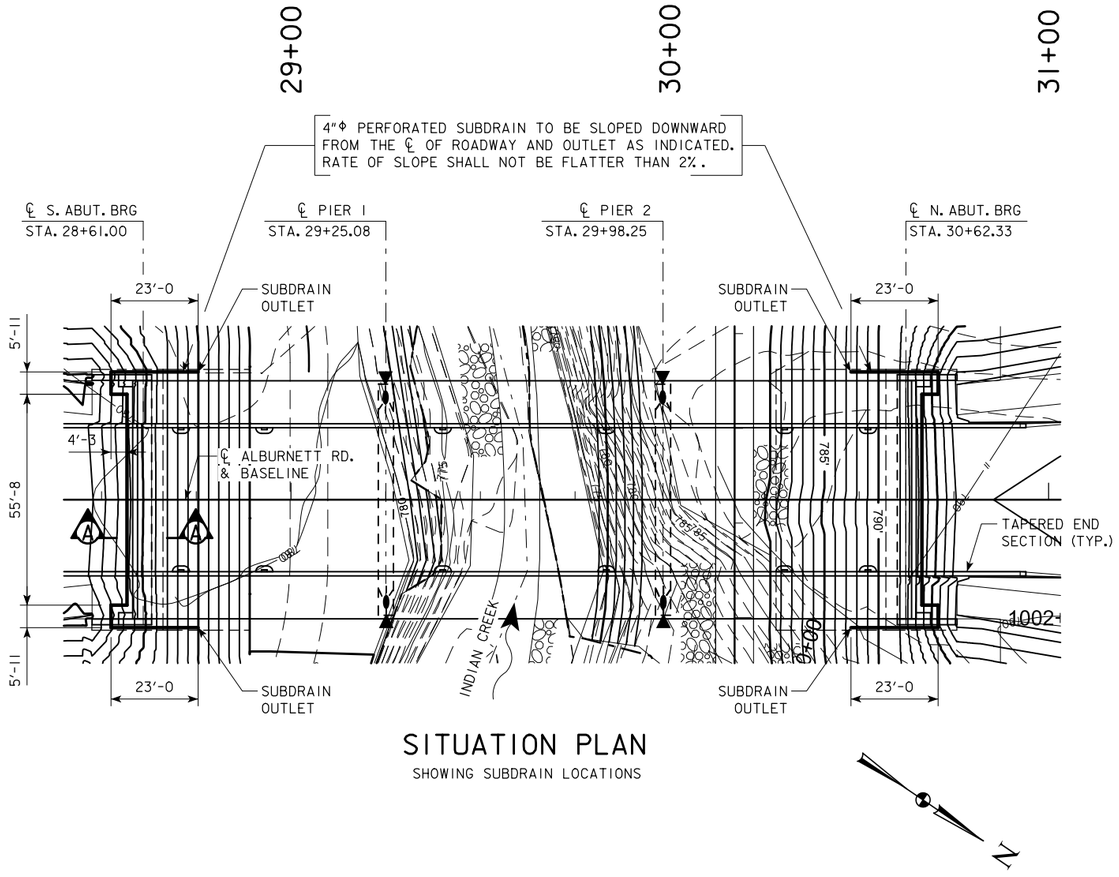
THE SUBDRAIN OUTLET SHALL CONSIST OF A LENGTH OF PIPE WITH A REMOVABLE RODENT GUARD AS DETAILED ON THIS SHEET. THE LENGTH OF THE OUTLET PIPE SHALL BE DETERMINED BY THE REVETMENT AND IT'S PLACEMENT LOCATION. THE CONTRACTOR IS TO INSURE THE OUTLET PIPE IS ADEQUATELY STRONG ENOUGH AND WILL NOT BE DAMAGED WHEN REVETMENT IS PLACED. A CHECK WILL BE MADE AT THE SUBDRAIN OUTLET TO INSURE THAT THE SUBDRAIN IS NOT DAMAGED AND IS DRAINING PROPERLY DURING THE BACKFILL FLOODING PROCESS. IF A METAL OUTLET PIPE IS USED, IT SHALL BE 6 INCHES IN DIAMETER AND COUPLED TO THE 4 INCH DIAMETER SUBDRAIN IN ONE OF THE TWO FOLLOWING WAYS.

1. USE AN INSIDE FIT REDUCER COUPLER (COUPLER MUST BE INSERTED A MINIMUM OF 1'-0 INTO THE METAL OUTLET PIPE).
2. INSERT 1'-0 OF THE 4"Φ SUBDRAIN INTO THE 6"Φ METAL OUTLET PIPE, THEN FULLY SEAL THE ENTIRE OPENING WITH GROUT.

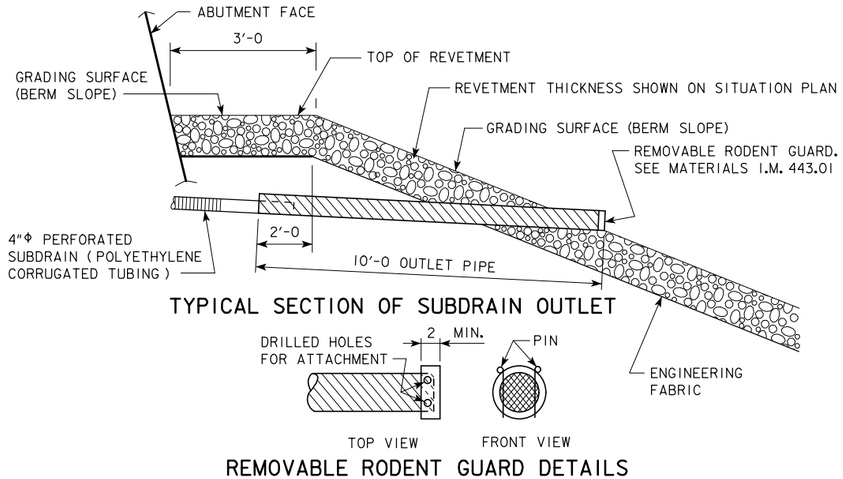
THE COST OF FURNISHING AND PLACING SUBDRAIN (INCLUDING EXCAVATION), GRANULAR BACKFILL, POROUS BACKFILL, AND SUBDRAIN OUTLET IS TO BE INCLUDED IN THE PRICE BID FOR "STRUCTURAL CONCRETE (BRIDGE)". NO EXTRA PAYMENT WILL BE MADE.

THE DIMENSIONS SHOWN FOR THE PROPOSED SUBDRAINS ARE BASED ON THE PROPOSED GRADING LAYOUT OF BRIDGE BERMS. THE DIMENSIONS SHOWN ARE FOR ESTIMATING ONLY. REQUIRED LENGTHS AND GENERAL LOCATIONS OF SUBDRAINS ARE SUBJECT TO CHANGE DUE TO FIELD ADJUSTMENTS OF THE GRADING LAYOUT.

SUBDRAIN OUTLET ELEVATIONS	
LOCATION	ELEVATION
SOUTH ABUTMENT	785.0±
NORTH ABUTMENT	787.7±



SITUATION PLAN
SHOWING SUBDRAIN LOCATIONS



TYPICAL SECTION OF SUBDRAIN OUTLET

REMOVABLE RODENT GUARD DETAILS

REVETMENT STONE (EMBEDDED) OUTLET DETAILS

NOTE:
SECTION A-A IS SHOWN ON ABUTMENT BACKFILL DETAILS SHEET.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans — 73'-2 Interior Span

Subdrain Details

STA. 29+61.67 (Alburnett Rd.) — Turn-in Date: May 2026

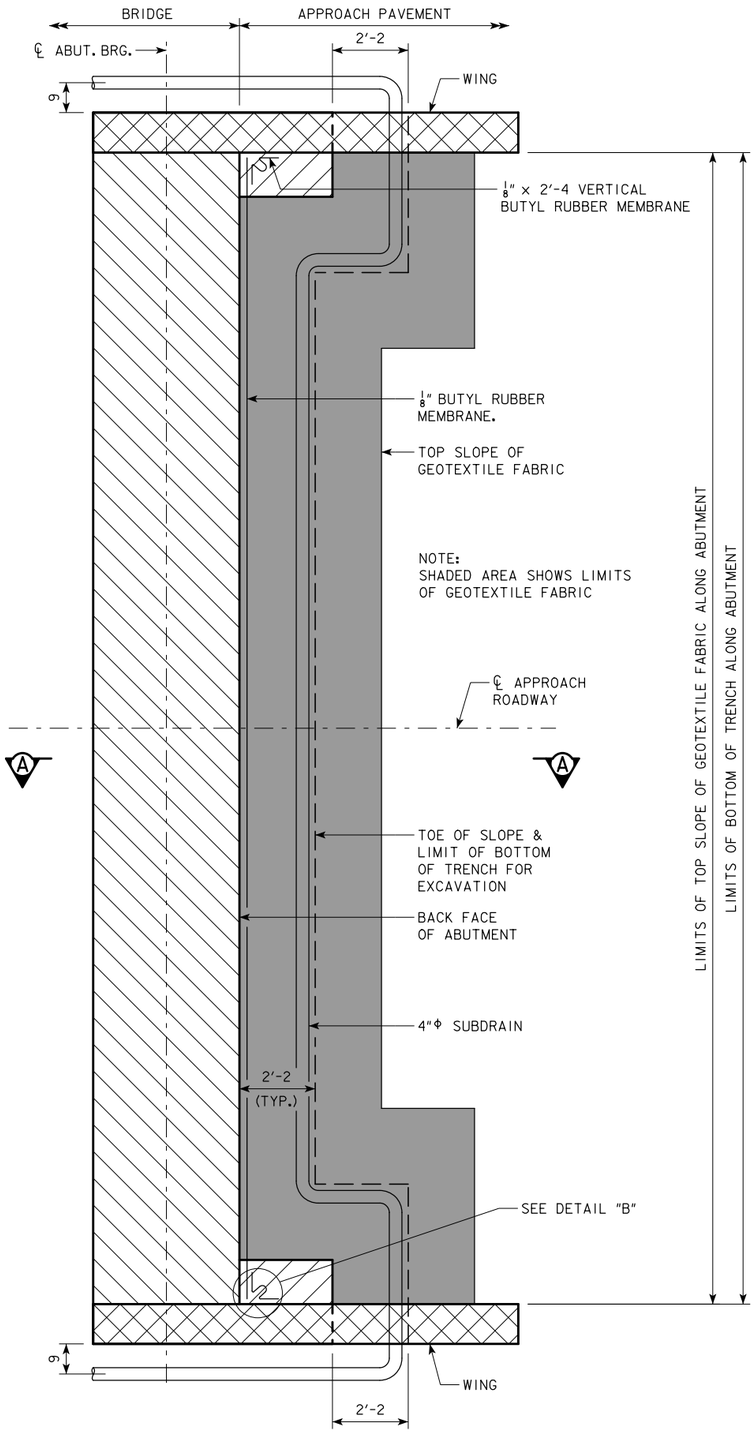
Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.33 of V.35 — FHWA No. 505820

FILE NO.	ENGLISH	DESIGN TEAM SHUCK-BRITSON, INC.	Linn COUNTY	PROJECT NUMBER HDP-4775(646)--71-57	SHEET NUMBER V.33

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ABUTMENT PLAN WITH WING EXTENSIONS

ABUTMENT BACKFILL PROCESS:

THE BASE OF THE EXCAVATION SUBGRADE BEHIND THE ABUTMENT IS TO BE GRADED WITH A 4% SLOPE AWAY FROM THE ABUTMENT FOOTING AND A 2% CROSS SLOPE IN THE DIRECTION OF THE SUBDRAIN OUTLET. THIS EXCAVATION SHAPING IS TO BE DONE PRIOR TO BEGINNING INSTALLATION OF THE GEOTEXTILE AND BACKFILL MATERIAL.

AFTER THE SUBGRADE HAS BEEN SHAPED, THE GEOTEXTILE FABRIC SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN. THE FABRIC IS INTENDED TO BE INSTALLED IN THE BASE OF THE EXCAVATION AND EXTENDED VERTICALLY UP THE ABUTMENT BACKWALL, ABUTMENT WINGS AND WINGWALLS, AND EXCAVATION FACE TO A HEIGHT THAT WILL BE APPROXIMATELY 3 FOOT HIGHER THAN THE HEIGHT OF THE POROUS BACKFILL PLACEMENT AS SHOWN IN THE "BACKFILL DETAILS" ON THIS SHEET. THE STRIPS OF THE FABRIC PLACED SHALL OVERLAP APPROXIMATELY 1 FOOT AND SHALL BE PINNED IN PLACE. THE FABRIC SHALL BE ATTACHED TO THE ABUTMENT BY USING LATH FOLDED IN THE FABRIC AND SECURED TO THE CONCRETE WITH SHALLOW CONCRETE NAILS. THE FABRIC PLACED AGAINST THE EXCAVATION FACE SHALL BE PINNED.

WHEN THE FABRIC IS IN PLACE, THE SUBDRAIN SHALL BE INSTALLED DIRECTLY ON THE FABRIC AT THE TOE OF THE REAR EXCAVATION SLOPE. A SLOT WILL NEED TO BE CUT IN THE FABRIC AT THE POINT WHERE THE SUBDRAIN EXITS THE FABRIC NEAR THE END OF THE ABUTMENT WING.

POROUS BACKFILL IS THEN PLACED AND LEVELED, NO COMPACTION IS REQUIRED.

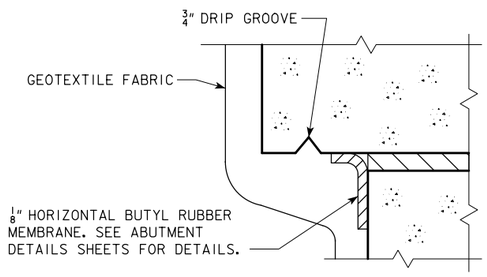
THE REMAINING WORK INVOLVES BACKFILLING WITH FLOODABLE BACKFILL, SURFACE FLOODING, AND VIBRATORY COMPACTION. THE FLOODABLE BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE FLOODABLE BACKFILL SHALL BE PLACED IN INDIVIDUAL LIFTS, SURFACE FLOODED, AND COMPACTED WITH VIBRATORY COMPACTION TO ENSURE FULL CONSOLIDATION. LIMIT THE LOOSE LIFTS TO NO MORE THAN 2 FEET OF THICKNESS.

START SURFACE FLOODING FOR EACH FLOODABLE BACKFILL LIFT AT THE HIGH POINT OF THE SUBDRAIN AND PROGRESS TO THE LOW POINT WHERE THE SUBDRAIN EXITS THE FABRIC. TO ENSURE UNIFORM SURFACE FLOODING, WATER RUNNING FULL IN A 2-INCH DIAMETER HOSE SHOULD BE SPRAYED IN SUCCESSIVE 6-FOOT TO 8-FOOT INCREMENTS FOR 5 MINUTES WITHIN EACH INCREMENT.

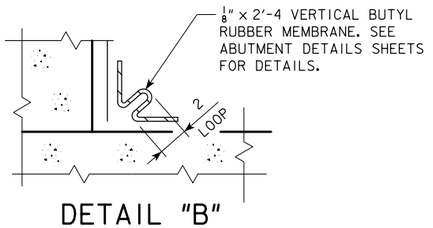
FLOODABLE BACKFILL LIFT PLACEMENT, FLOODING, AND COMPACTION SHALL PROGRESS UNTIL THE REQUIRED FULL THICKNESS OF THE ABUTMENT BACKFILL HAS BEEN COMPLETED.

WATER REQUIRED FOR FLOODING, SUBDRAINS, POROUS BACKFILL, FLOODABLE BACKFILL, BUTYL RUBBER MEMBRANES, WATERPROOF ADHESIVE, AND GEOTEXTILE FABRIC FURNISHED AT THE BRIDGE ABUTMENTS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

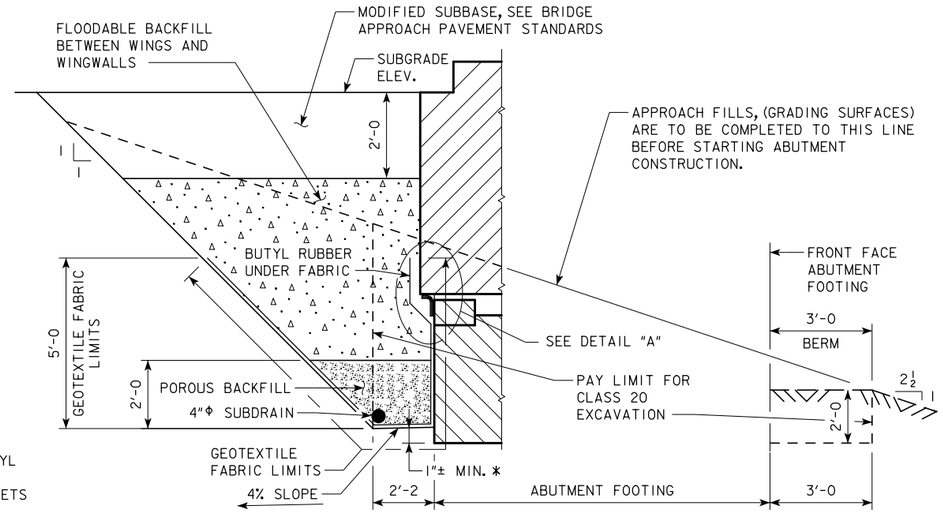
THE COST OF WATER REQUIRED FOR FLOODING, SUBDRAINS, POROUS BACKFILL, FLOODABLE BACKFILL, BUTYL RUBBER MEMBRANES, WATERPROOF ADHESIVE, AND GEOTEXTILE FABRIC FURNISHED AT THE BRIDGE ABUTMENTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR STRUCTURAL CONCRETE.



DETAIL "A"



DETAIL "B"



SECTION A-A

BACKFILL DETAILS

NOTE: GEOTEXTILE FABRIC WILL BE ATTACHED TO FACE OF ABUTMENT FOOTING, WINGS AND WINGWALLS.

* DIMENSION VARIES DUE TO 2% SUBDRAIN SLOPE.

NOTE:
SEE SUBDRAIN DETAILS SHEET FOR DETAILS NOT SHOWN ON THIS SHEET WHICH ARE PERTINENT TO THIS STRUCTURE.

NOTE:

SUBDRAIN SHALL SLOPE DOWNWARD 2% FROM ℄ APPROACH ROADWAY WHEN OUTLETTING BOTH SIDES OF THE ABUTMENT.

THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH ARTICLE 4196.01, B, 6 OF THE STANDARD SPECIFICATIONS. IF THE ENGINEERING FABRIC IS LAPPED THE LAPS SHALL BE A MINIMUM OF ONE FOOT IN LENGTH, SHINGLE FASHION WITH UP SLOPE LAP PIECE ON TOP AND STAPLED FOR CONTINUITY.

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

Abutment Backfill Details

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

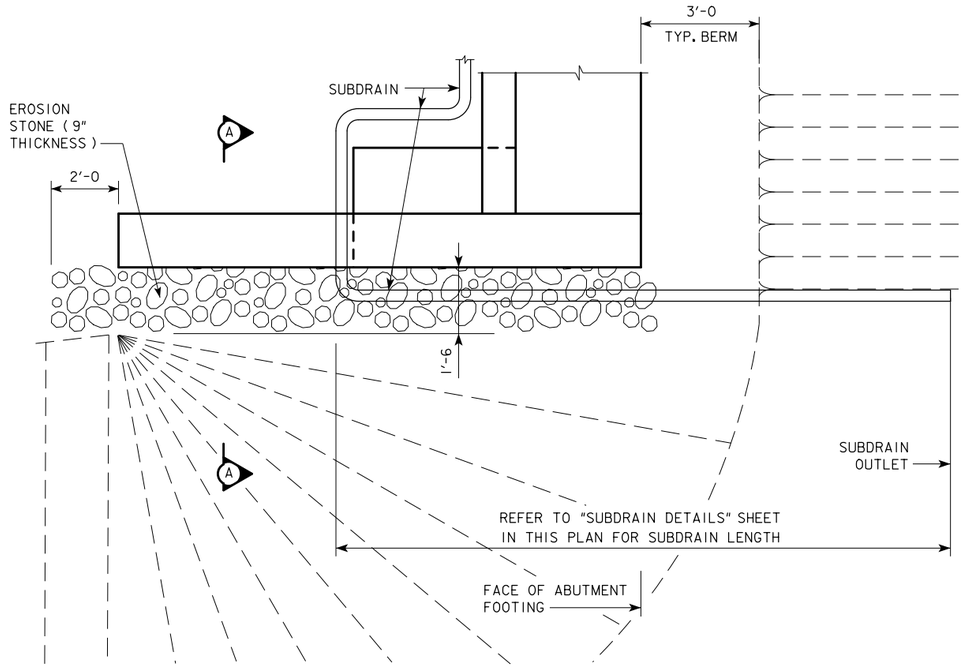
Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.34 of V.35 FHWA No. 505820

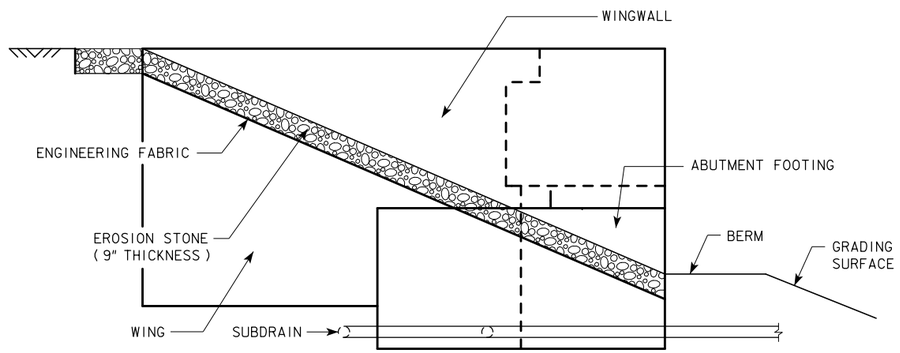
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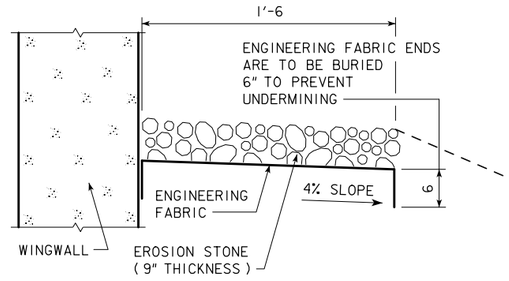


TOP VIEW OF WING ARMORING WITH WING EXTENSION

A CHECK SHALL BE MADE AT THE SUBDRAIN OUTLET TO INSURE THAT IT IS DRAINING PROPERLY DURING THE BACKFILL FLOODING PROCESS.



PROFILE VIEW OF WING ARMORING WITH WING EXTENSION



SECTION A-A

GENERAL NOTES:

EROSION STONE SHALL BE PLACED ALONG THE SIDES OF THE WINGS AND ABUTMENT FOOTING AS SHOWN IN SECTION A-A. THIS IS TYPICAL AT EACH CORNER OF THE BRIDGE UNLESS OTHERWISE NOTED IN THE PLANS. THE EROSION STONE AT THESE LOCATIONS SHALL BE UNDERLAYED WITH ENGINEERING FABRIC IN ACCORDANCE WITH ARTICLE 4196.01, B, 3, OF THE STANDARD SPECIFICATIONS.

THE EROSION STONE SHALL BE IN ACCORDANCE WITH SECTION 4130, OF THE STANDARD SPECIFICATIONS. MATERIAL PASSING THE 3 INCH SCREEEN BUT 100% RETAINED ON A 1 INCH SCREEN MAY BE USED AS CHOKE STONE.

THE EROSION STONE SHALL BE DEPOSITED, SPREAD, CONSOLIDATED AND SHAPED BY MECHANICAL OR HAND METHODS THAT WILL PROVIDE UNIFORM 9" DEPTH AND DENSITY AND PROVIDE UNIFORM SURFACE APPEARANCE.

PAYMENT FOR THE BRIDGE WING ARMORING WILL BE BID PER SQUARE YARD. COST WILL INCLUDE ENGINEERING FABRIC, EROSION STONE, EXCAVATION, SHAPING, AND COMPACTION TO DIMENSIONS SHOWN IN THESE PLANS. BID ITEM SHALL BE "BRIDGE WING ARMORING - EROSION STONE".

Design For 0° Skew

201'-4 x 38'-0 Pretensioned Prestressed Conc. Beam Bridge w/ 2 - 10'-0 Sdwks.

64'-1 End Spans 73'-2 Interior Span

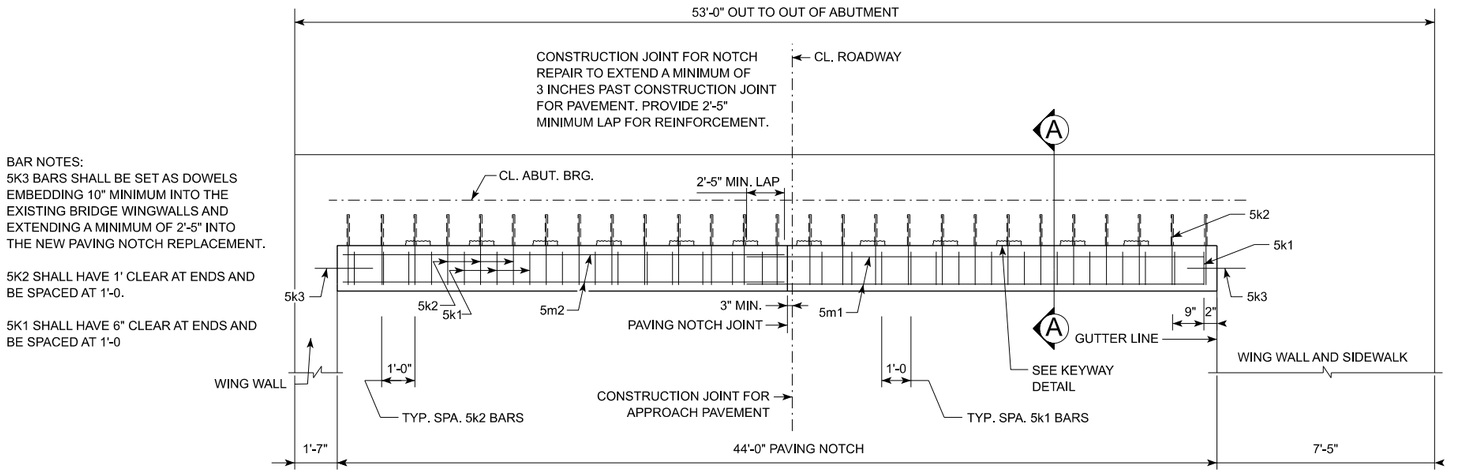
Bridge Wing Armoring

STA. 29+61.67 (Alburnett Rd.) Turn-in Date: May 2026

Linn County

IOWA DEPARTMENT OF TRANSPORTATION

Design Sheet No. V.35 of V.35 FHWA No. 505820



BAR NOTES:
5K3 BARS SHALL BE SET AS DOWELS EMBEDDING 10" MINIMUM INTO THE EXISTING BRIDGE WINGWALLS AND EXTENDING A MINIMUM OF 2'-5" INTO THE NEW PAVING NOTCH REPLACEMENT.

5K2 SHALL HAVE 1' CLEAR AT ENDS AND BE SPACED AT 1'-0.

5K1 SHALL HAVE 6" CLEAR AT ENDS AND BE SPACED AT 1'-0

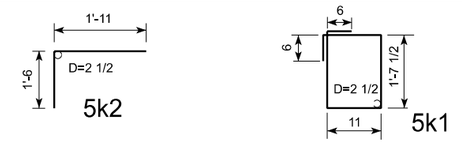
PART PLAN VIEW AT EAST ABUTMENT

N

EPOXY COATED REINF. STEEL (EAST ABUTMENT)

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
5k1	HOOP, PAVING NOTCH	▭	44	6'-1	278.4
5k2	DOWEL, PAVING NOTCH	⌐	86	3'-5	305.6
5k3	DOWEL, EMBEDDED IN WINGWALL	—	2	3'-3	6.8
5m1	HORIZONTAL, PAVING NOTCH	—	6	23'-6	146.6
5m2	HORIZONTAL, PAVING NOTCH	—	6	21'-5	134.2
	(FOR INFORMATION ONLY) EPOXY COATED STEEL TOTAL (LBS)				871.6

BENT BAR DETAILS



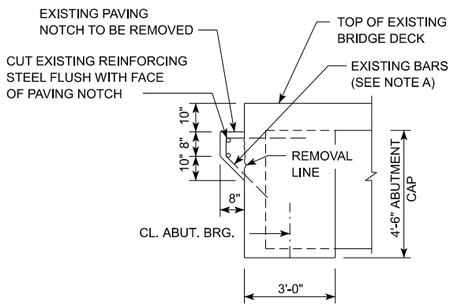
NOTE: ALL DIMENSIONS ARE OUT TO OUT. D=PIN DIA.

CONCRETE PLACEMENT QUANTITIES

LOCATION	EAST	
PAVING NOTCH	4.1 CY	

ESTIMATED QUANTITIES (EAST ABUTMENT)

ITEM	UNIT	TOTAL
PAVING NOTCH REPLACEMENT	L.F.	44

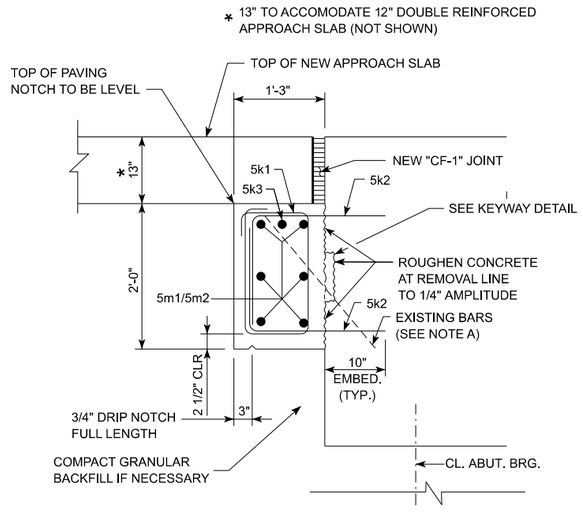


PAVING NOTCH REMOVAL DETAIL

NOTE A:
THE BOTTOM PORTION OF THE EXISTING #4 BARS SHALL BE CAREFULLY EXPOSED AND INCORPORATED INTO THE NEW WORK. THE BAR SHALL BE CUT OFF TO PROVIDE 2 INCHES OF COVER FROM THE TOP OF THE NEW PAVING NOTCH. THE TOP PORTION OF THE BAR SHALL BE CUT OFF FLUSH OR SLIGHTLY BELOW THE CONCRETE SURFACE AND THE ENDS PAINTED WITH 2 COATS OF ZINC RICH PAINT.

DOWEL SETTING NOTE:

THE DEFORMED 5k2 BARS SHALL BE SET AS DOWELS IN DRILLED HOLES. HOLES ARE TO BE 10" DEEP. A POLYMER GROUT SYSTEM SHALL BE USED TO INSTALL THE DEFORMED DOWEL BARS IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 2301.03, E, AND CURRENT SUPPLEMENTAL SPECIFICATIONS OF THE IOWA D.O.T.- HIGHWAY DIVISION, AND THE MANUFACTURER'S RECOMMENDATIONS.



SECTION A-A

NOTE: DOWELS SHALL BE PLACED TO MISS ANY EXISTING REINFORCING STEEL EXPOSED DURING REMOVALS.

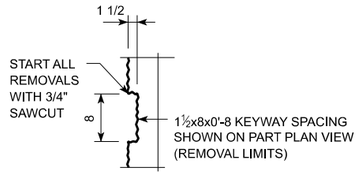
PAVING NOTCH REPLACEMENT NOTES:

THE PAVING NOTCH CONCRETE IS TO BE CLASS " C" STRUCTURAL CONCRETE.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

THE PAVING NOTCH REPLACEMENT IS TO BE PAID ON A LINEAL FOOT BASIS MEASURED FROM END TO END OF PAVING NOTCH BETWEEN SOUTH WING WALL AND NORTH WING WALL. THE NUMBER OF LINEAL FEET OF PAVING NOTCH REPLACEMENT INSTALLED WILL BE PAID FOR AT THE CONTRACT PRICE PER LINEAL FOOT BASED ON PLAN QUANTITIES. PRICE PAID FOR PAVING NOTCH REPLACEMENT SHALL BE FULL COMPENSATION FOR ALL COSTS OF LABOR AND MATERIALS ASSOCIATED WITH EXCAVATION, REMOVING AND DISPOSING OF THE EXISTING PAVING NOTCH AND FURNISHING AND INSTALLING CONCRETE AND REINFORCING STEEL TO CONSTRUCT THE NEW NOTCH. IN ADDITION, THIS WORK SHALL INCLUDE CUTTING OF EXISTING BARS, PAINTING THE ENDS OF THE BARS, REMOVING THE CONCRETE FOR THE SHEAR KEYWAYS, ROUGHENING CONCRETE AT INTERFACE OF BACK FACE OF ABUTMENT AND NEW PAVING NOTCH, DRILLING THE HOLES FOR THE DEFORMED DOWELS, CONSTRUCTING THE NEW NOTCH TO THE REQUIRED DIMENSIONS, AND BACKFILLING AS DETAILED ON THIS SHEET. CONCRETE VOLUME AND REINFORCING STEEL WEIGHT ARE SHOWN FOR INFORMATION ONLY AND WILL NOT BE MEASURED FOR PAYMENT.

REMOVALS SHALL BE IN ACCORDANCE WITH SECTION 2401 OF THE IOWA DOT STANDARD SPECIFICATIONS.



1½x8 KEYWAY DETAIL

8TH AVENUE
REPAIRS FOR 53' 0° SKEW
227'-0 x 44'-0 CONTINUOUS
CONCRETE SLAB BRIDGE

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION		

Engineer:	MGB	Checked By:	DMS
Technician:	KMM	Date:	5/12/2026

T-R-S:

Project No: 116.0663

Sheet V.50

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

8TH AVENUE BRIDGE REPAIR DETAILS

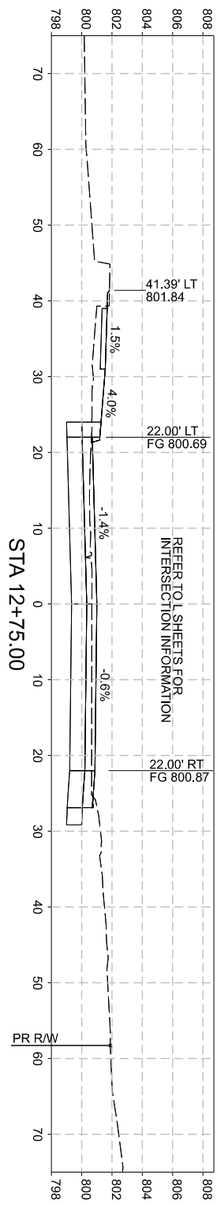
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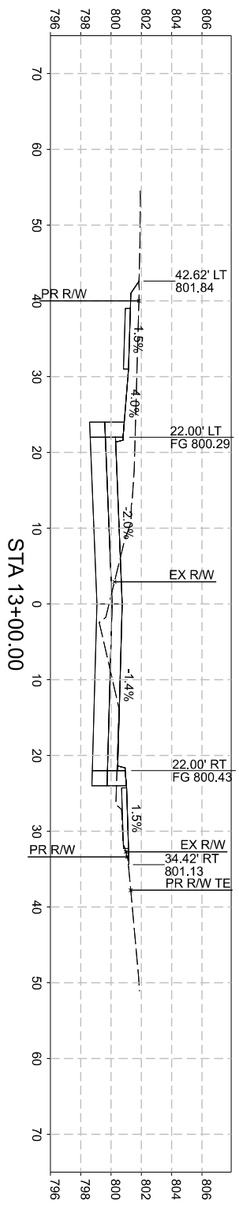
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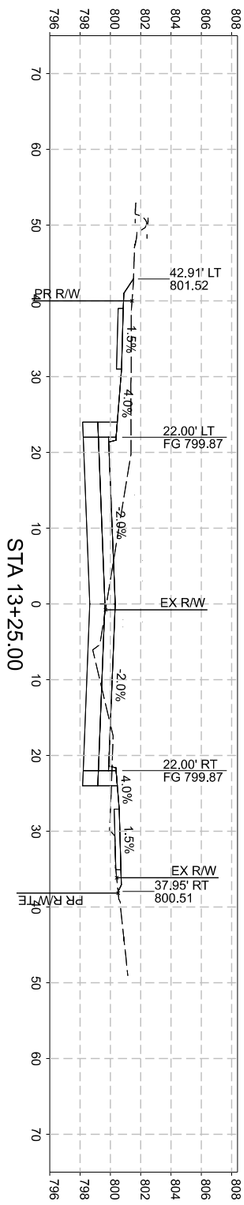
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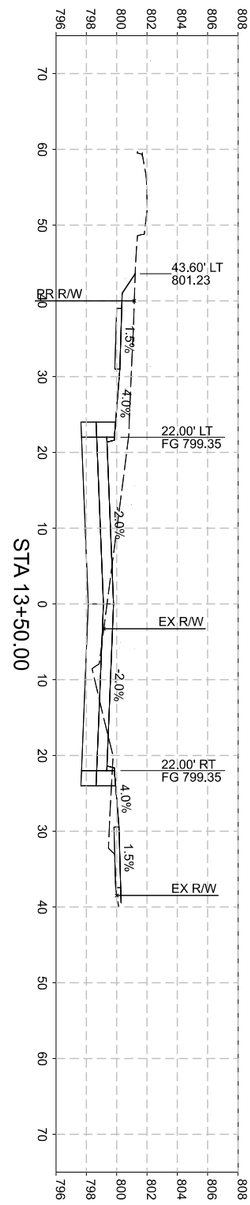
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Sheet W.1
Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

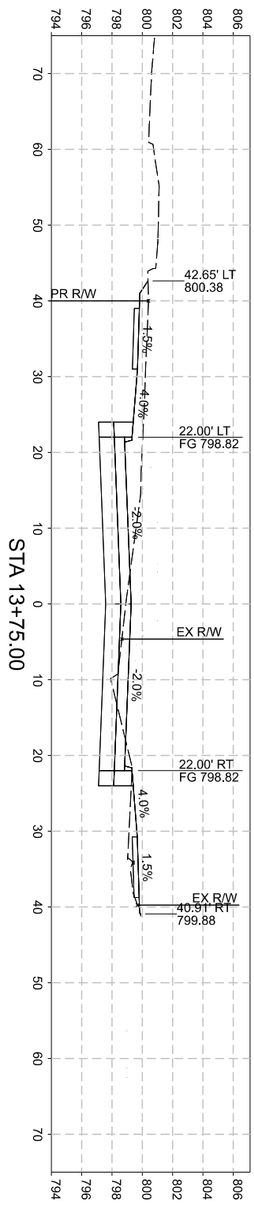
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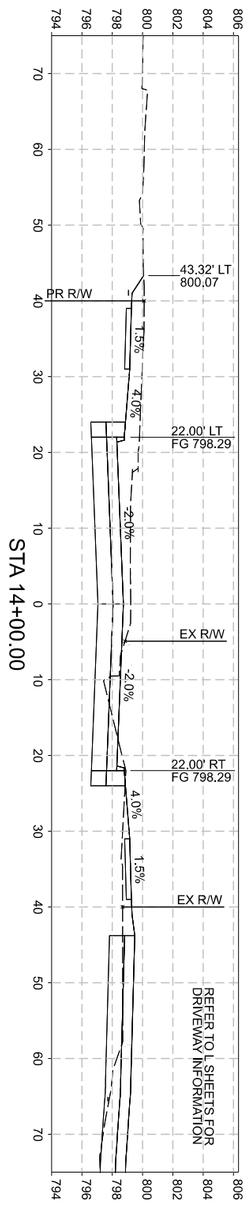
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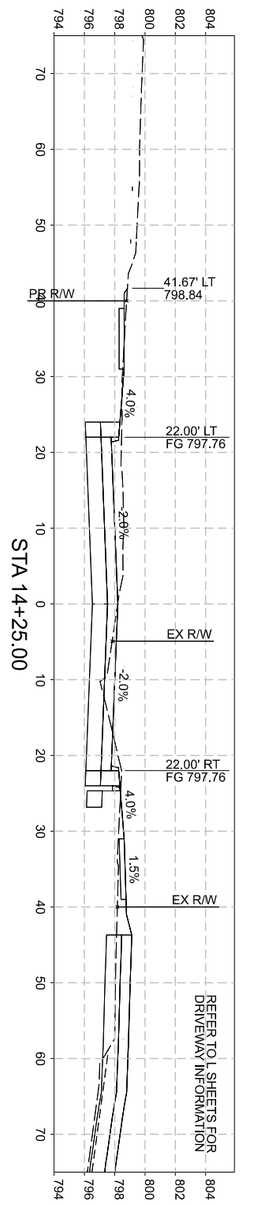
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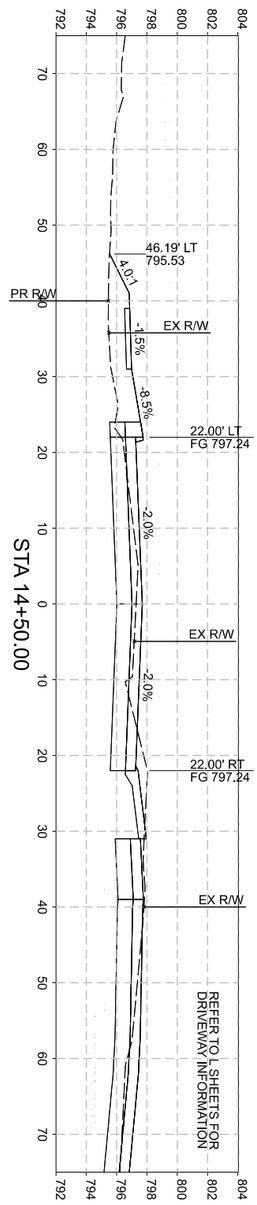
900 BELL DRIVE S.W.
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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION		DATE BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/12/2026		Field Bk: Pg:
Project No: 116.0663			Sheet W.1









Sheet W.2

Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

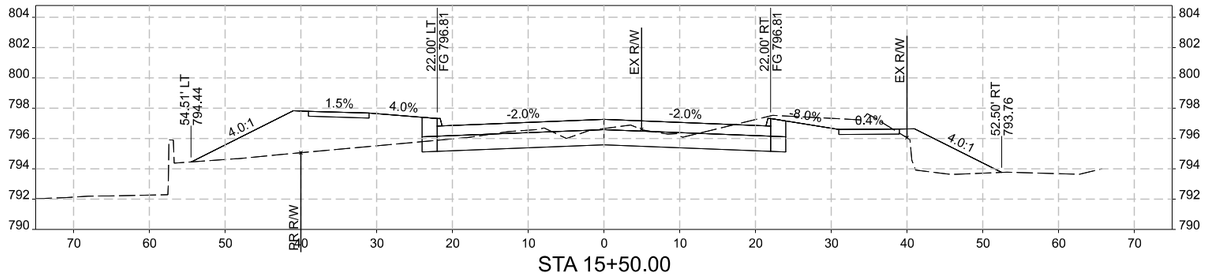
CROSS SECTIONS - ALBURNETT RD

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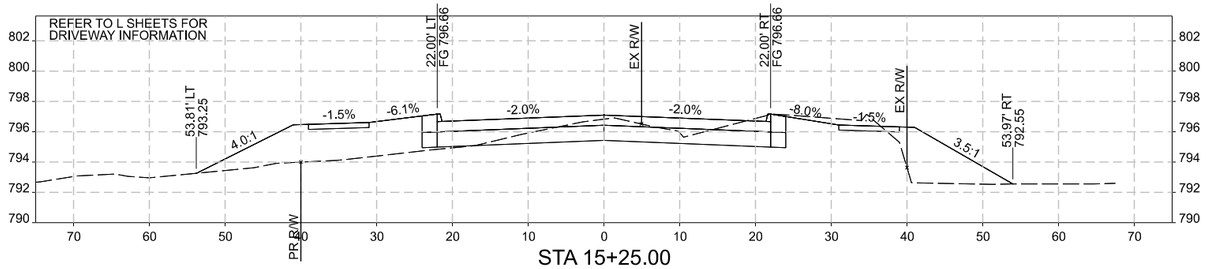
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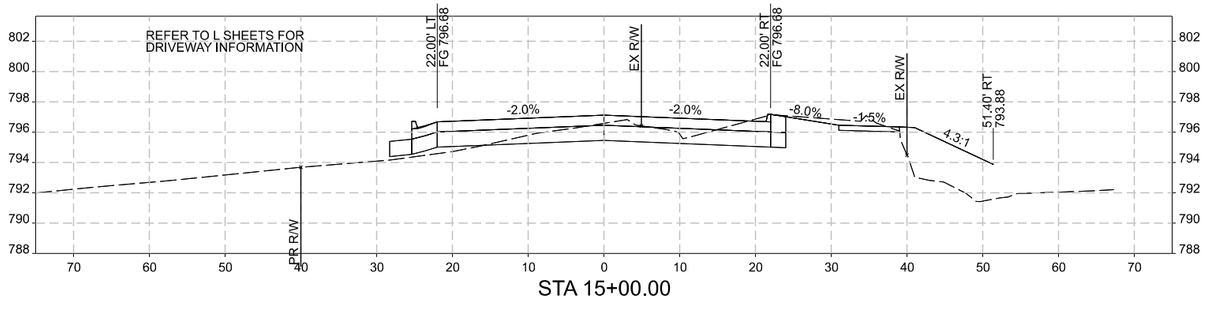
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FINAL PLANS			5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:	
Project No: 116.0663		Sheet W.2		



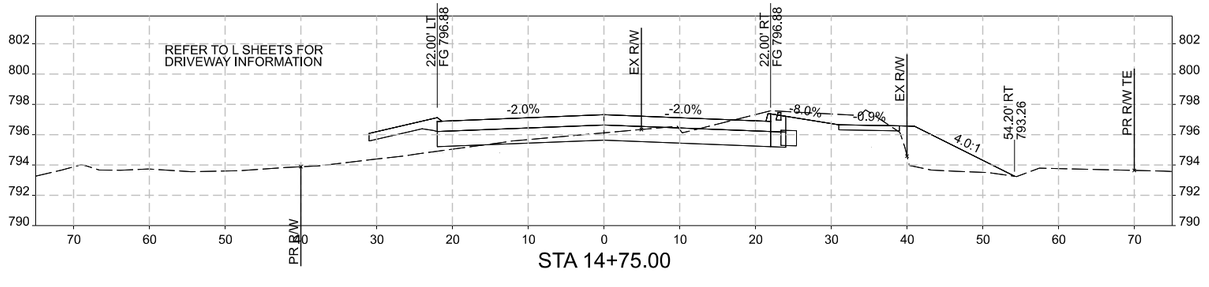
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DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet W.3

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

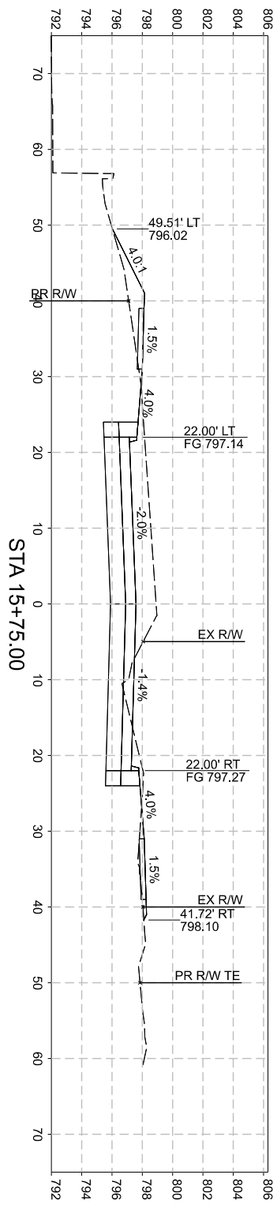
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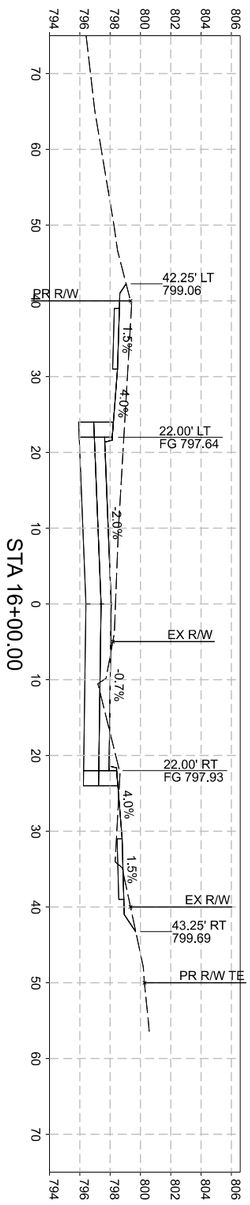
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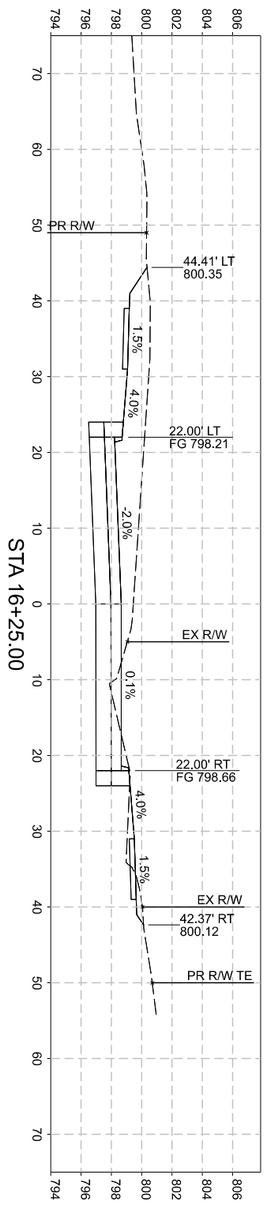
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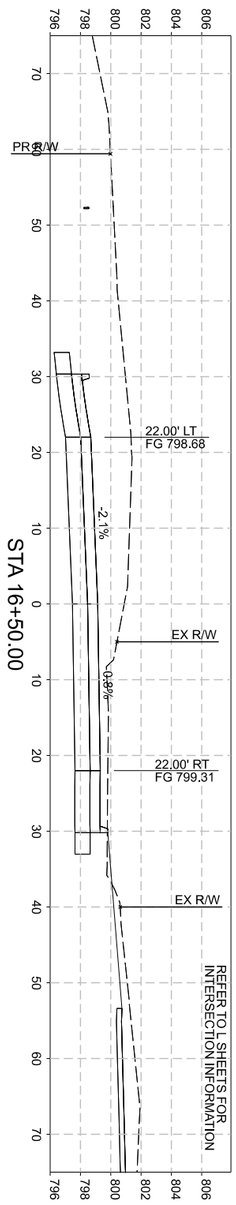
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Sheet W.4

Project No: 116.0663

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

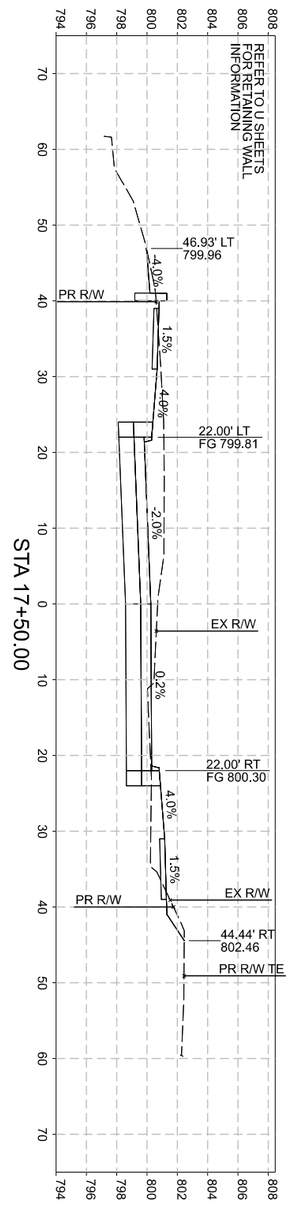
CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

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FINAL PLANS			5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/12/2026		Field Bk:	Pg:
Project No: 116.0663		Sheet W.4		



Sheet W.5

Project No: 116.0663

SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

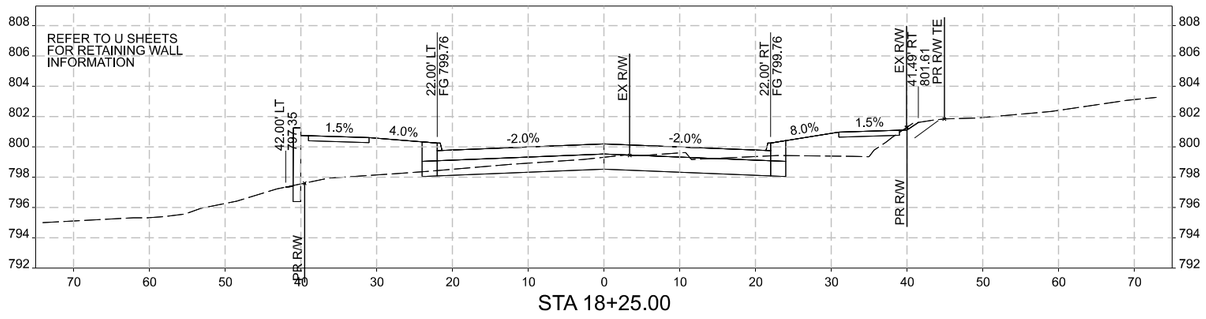
CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

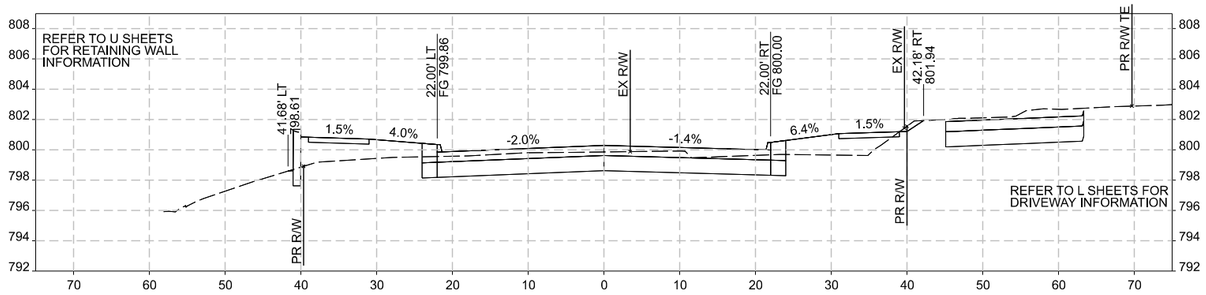
SNYDER & ASSOCIATES, INC.

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

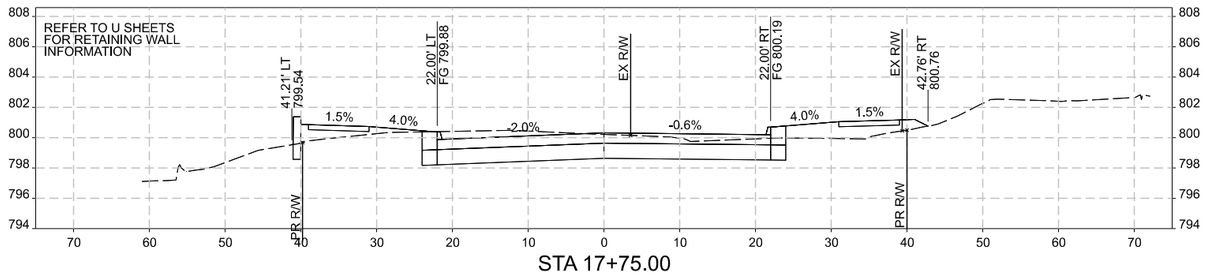
DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		5/13/2026	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:
Project No: 116.0663		Sheet W.5	



STA 18+25.00



STA 18+00.00



STA 17+75.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:

Technician: KMM Date: 5/12/2026 Pg:

Project No: 116.0663

Sheet W.6

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

SNYDER & ASSOCIATES, INC.

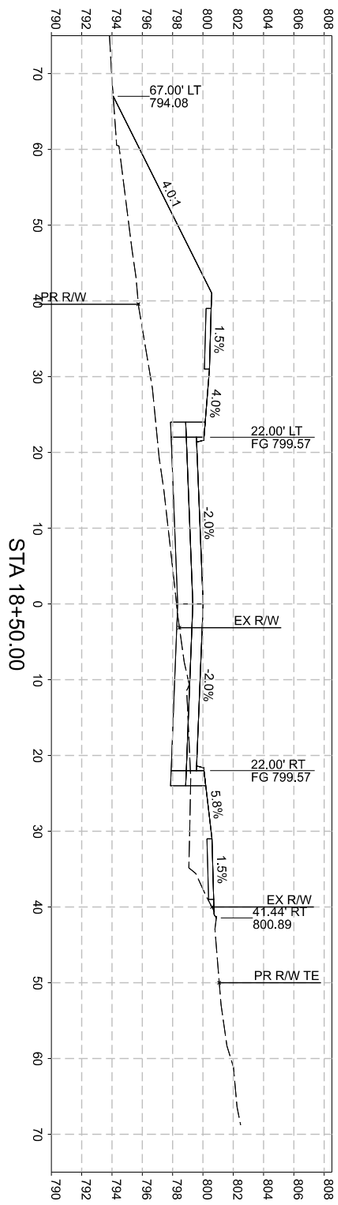
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

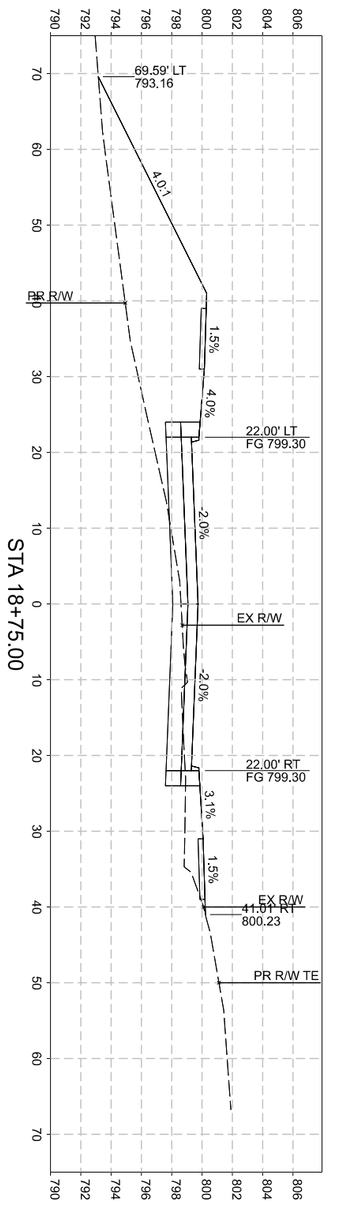
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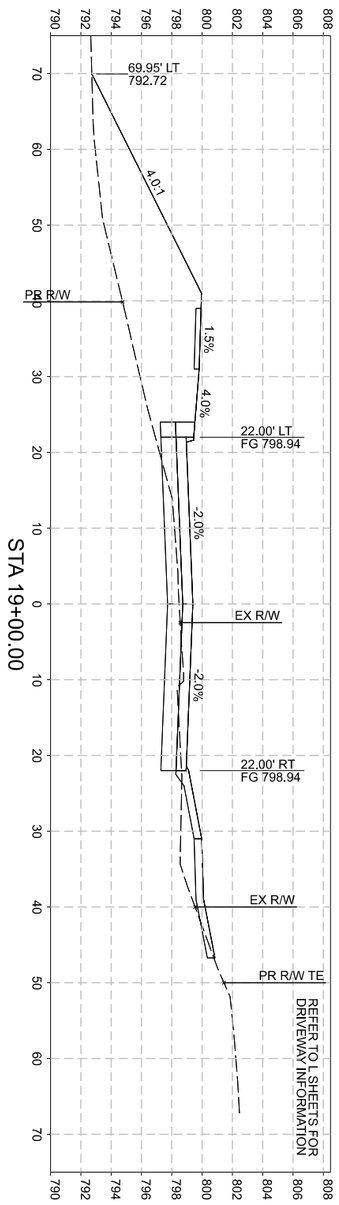
Project No: 116.0663

Sheet W.6

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Sheet W.7
Project No: 116.0663

SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

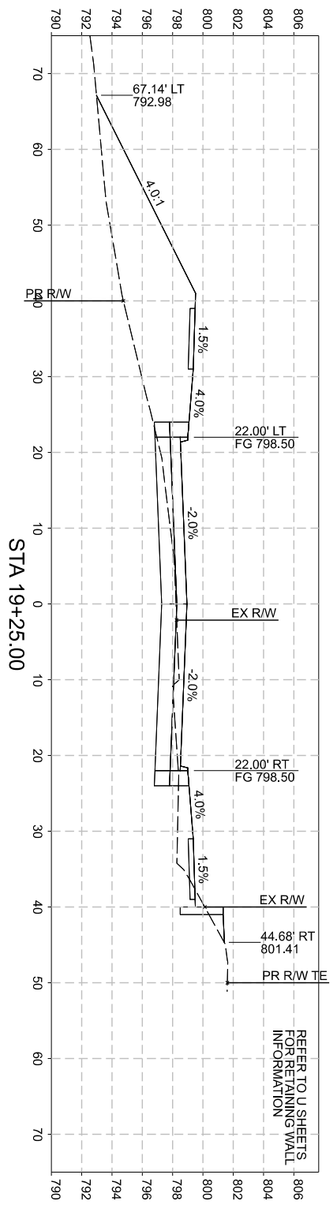
CROSS SECTIONS - ALBURNETT RD

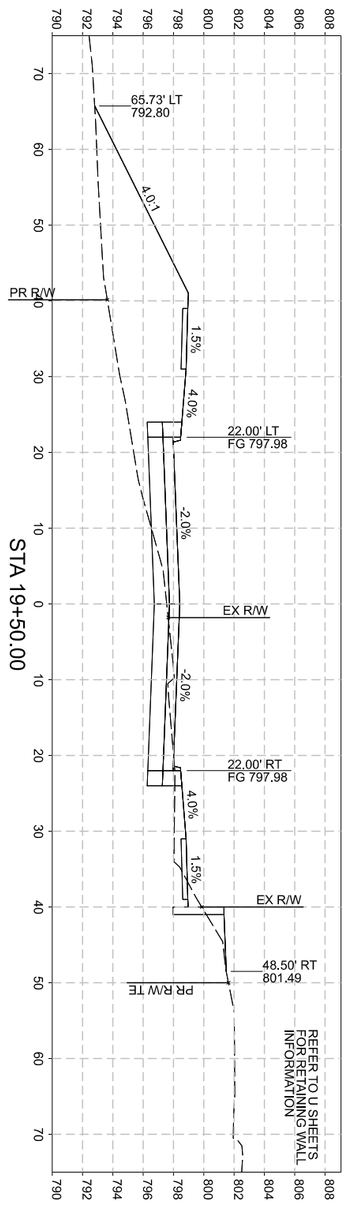
CITY OF MARION, IOWA

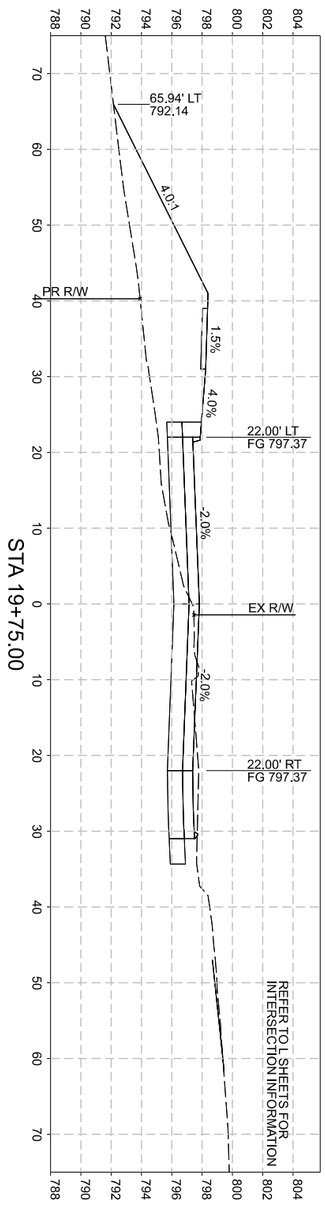
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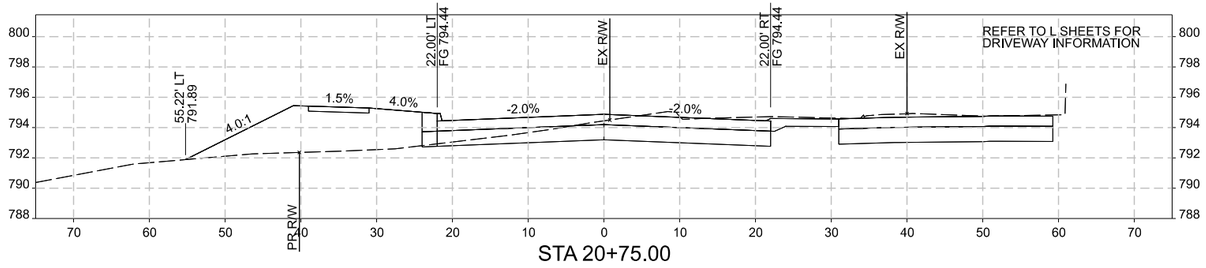
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

	DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS		5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:	
Project No: 116.0663		Sheet W.7		

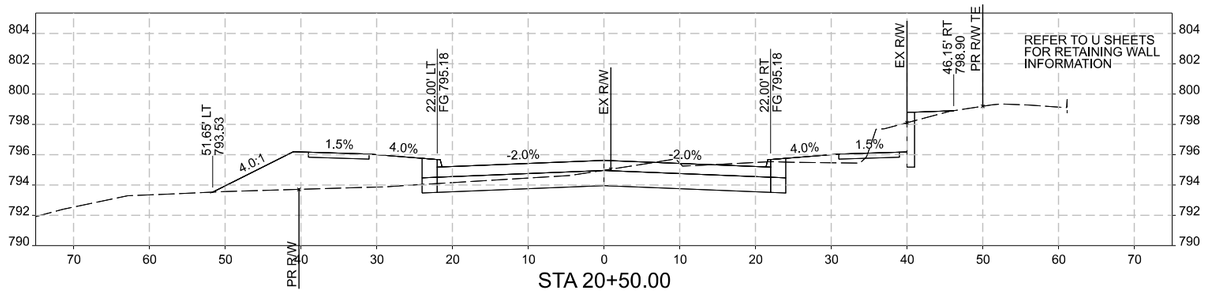

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792.98
4.0:1
PR R/W
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22.00' LT
FG 798.50
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EX R/W
-2.0%
22.00' RT
FG 798.50
4.0%
1.5%
EX R/W
44.68' RT
801.41
PR R/W TE
REFER TO U SHEETS FOR RETAINING WALL INFORMATION


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PR R/W
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4.0%
22.00' LT
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22.00' RT
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PR R/W TE
REFER TO U SHEETS FOR RETAINING WALL INFORMATION

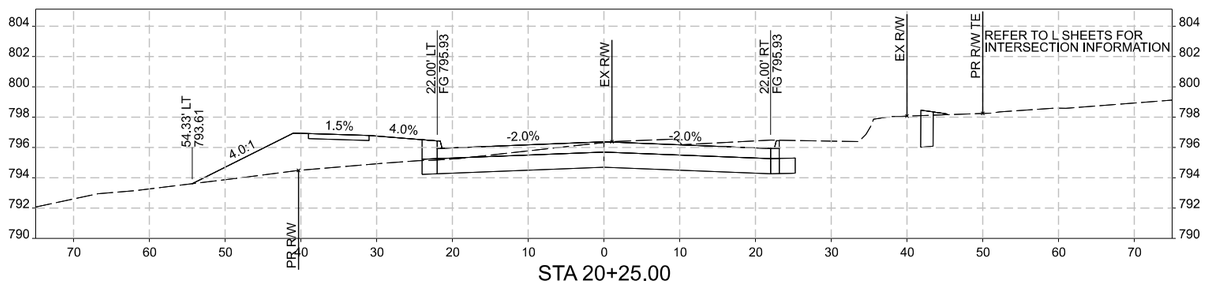

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REFER TO L SHEETS FOR INTERSECTION INFORMATION



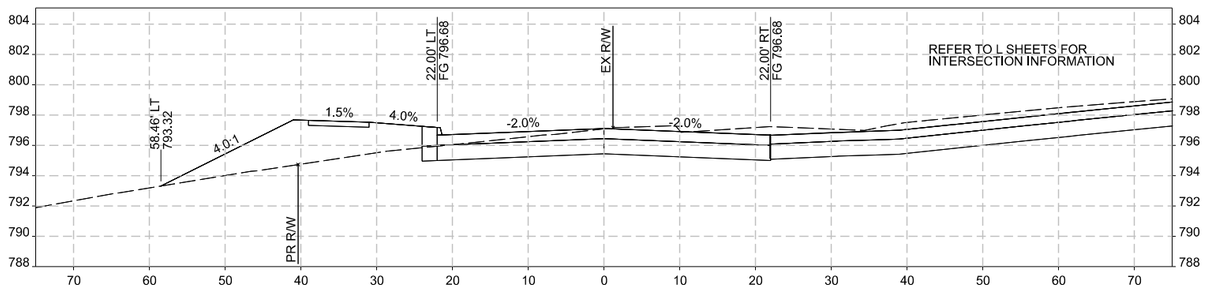
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STA 20+50.00



STA 20+25.00



STA 20+00.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet W.9

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

SNYDER & ASSOCIATES, INC.

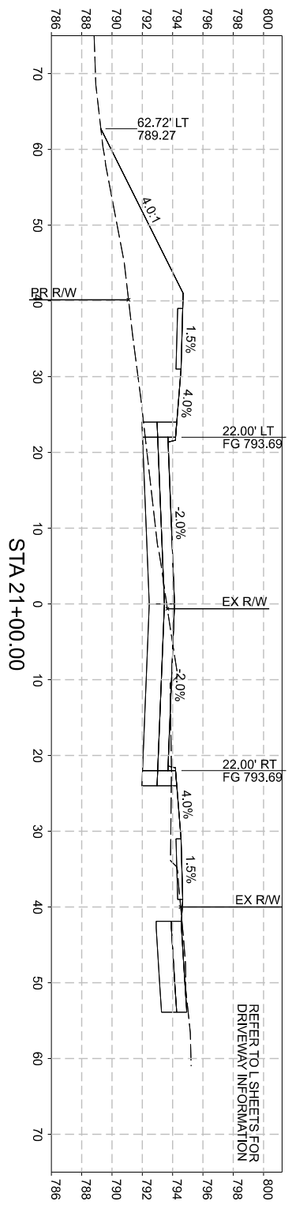
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

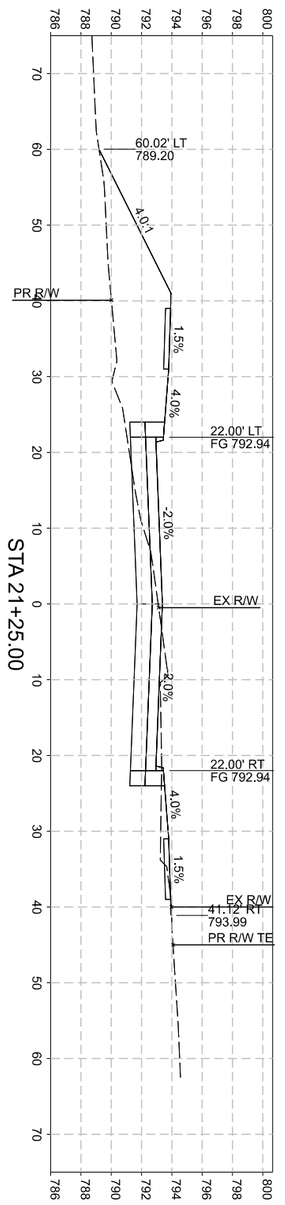
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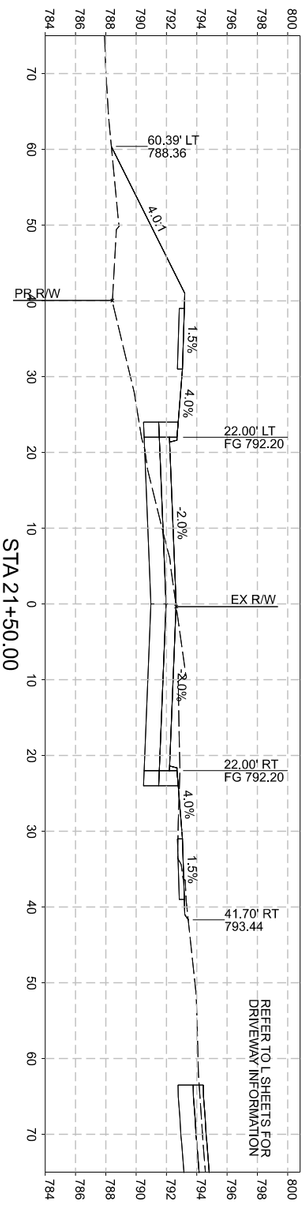
Project No: 116.0663

Sheet W.9

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

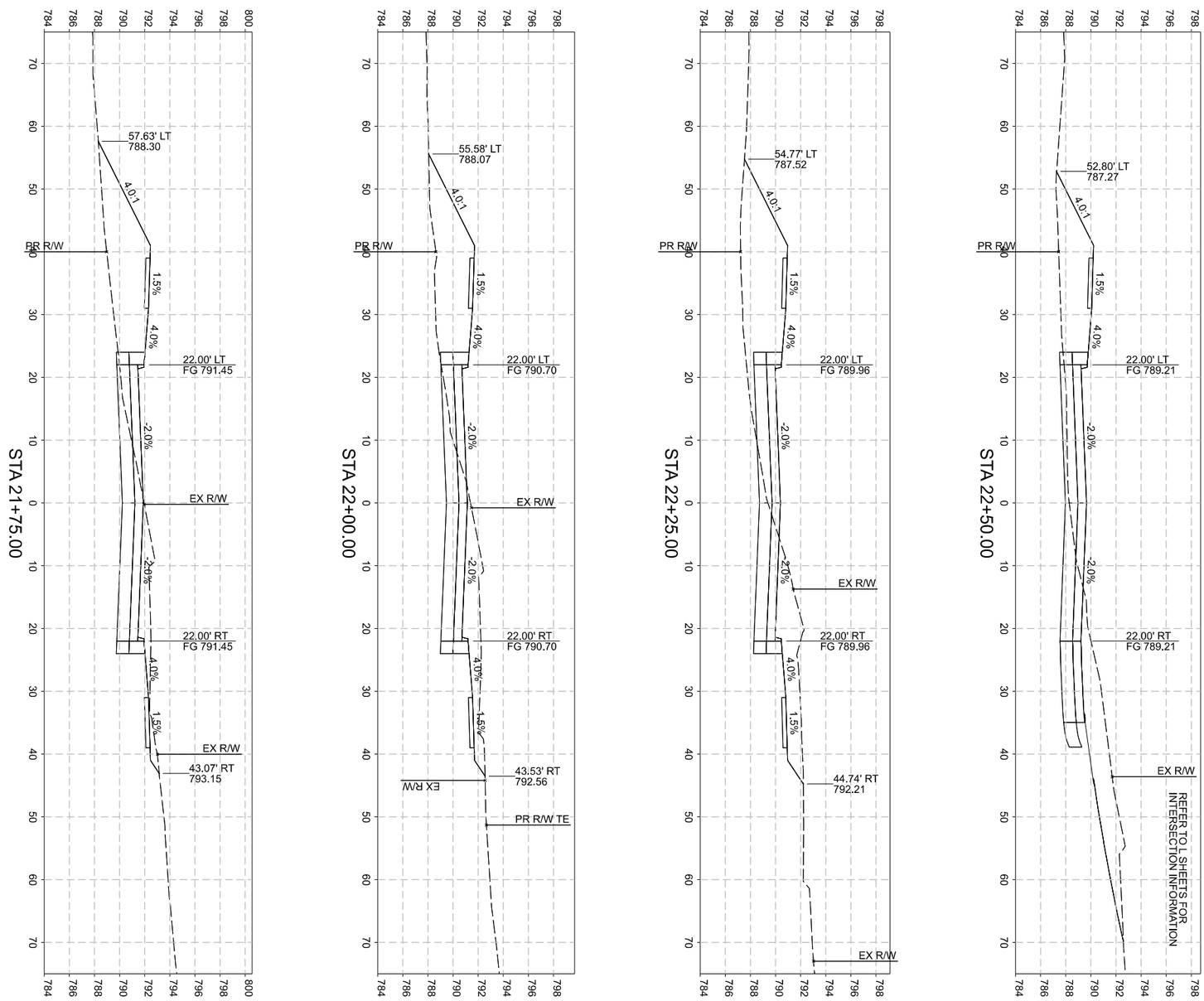
CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

	DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS		5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:	
Project No: 116.0663		Sheet W.10		

Project No: 116.0663
Sheet W.10



ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

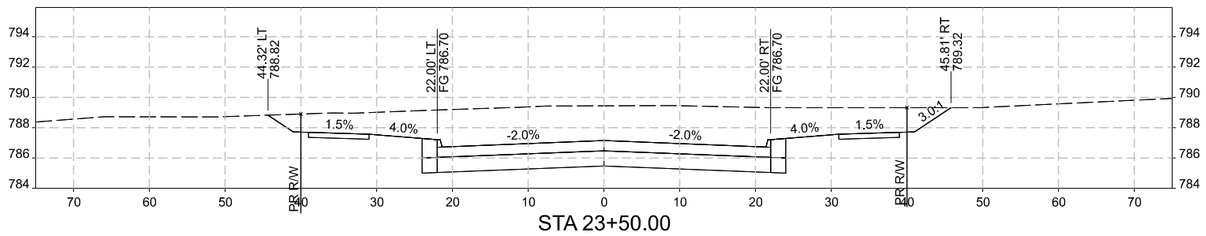
CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

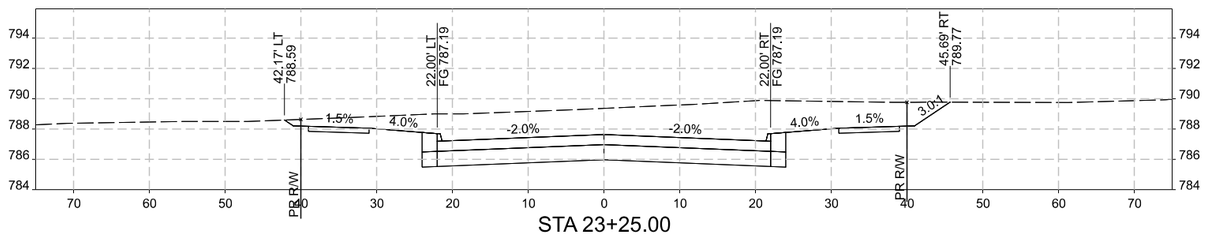
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

DOT PROJECT NUMBER: HDP-4775(646)--71-57				
FINAL PLANS			5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:	
Project No: 116.0663		Sheet W.11		

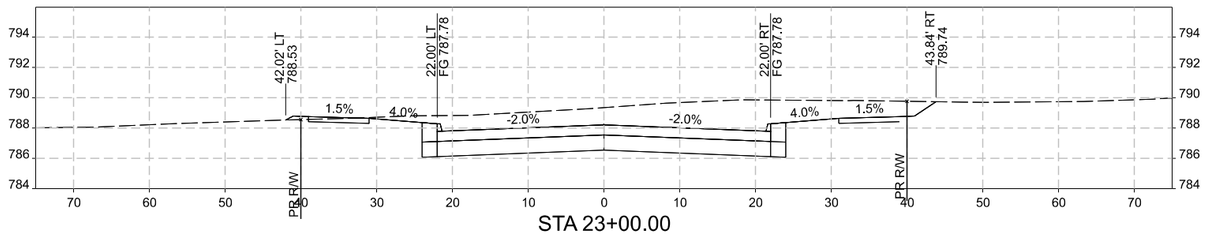
Sheet W.11
Project No: 116.0663



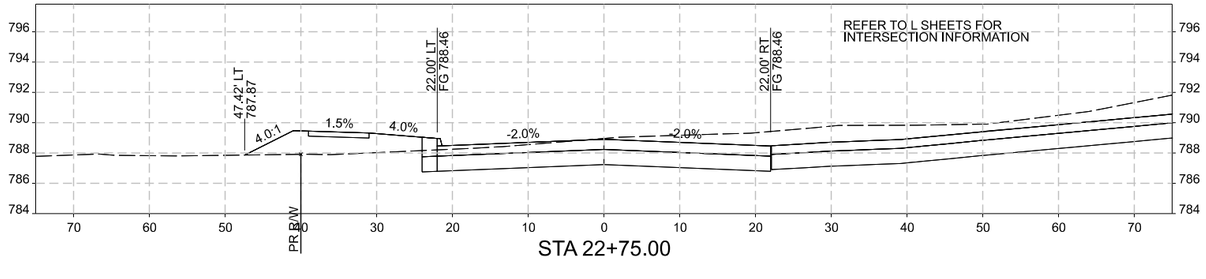
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STA 23+25.00



STA 23+00.00



STA 22+75.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB Checked By: DMS Field Bk:

Technician: KMM Date: 5/12/2026 Pg:

Project No: 116.0663

Sheet W.12

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

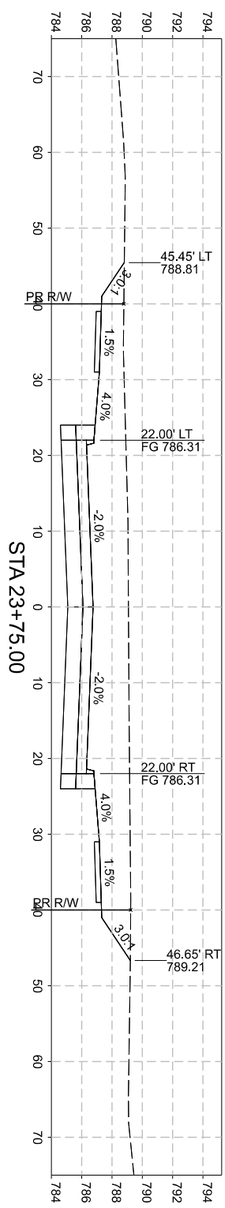
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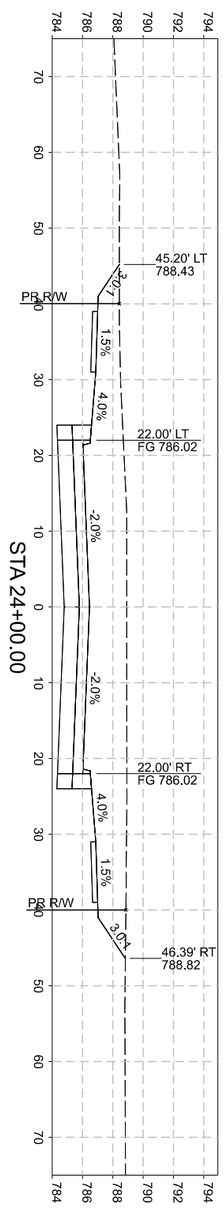
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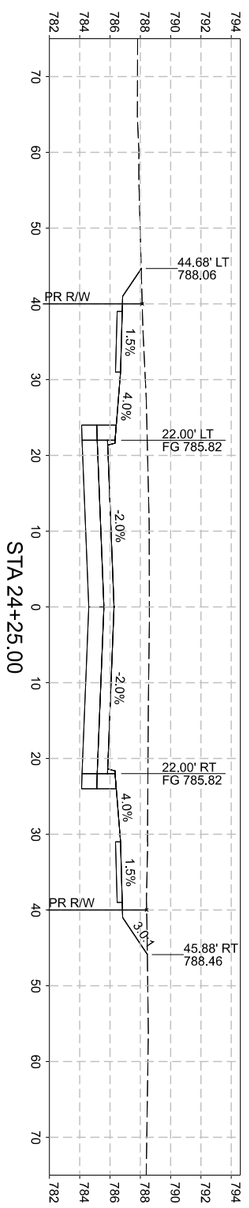
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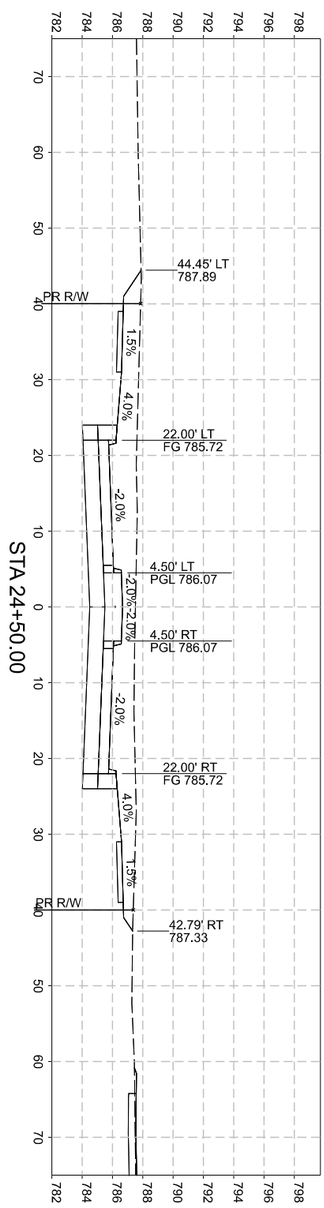
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Sheet W.13

Project No: 116.0663

SNYDER & ASSOCIATES

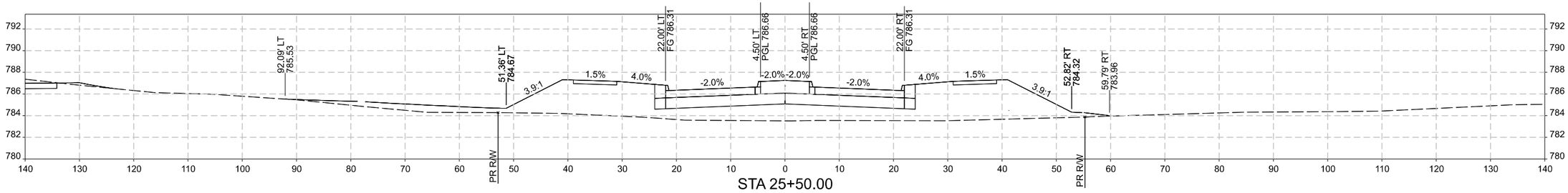
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

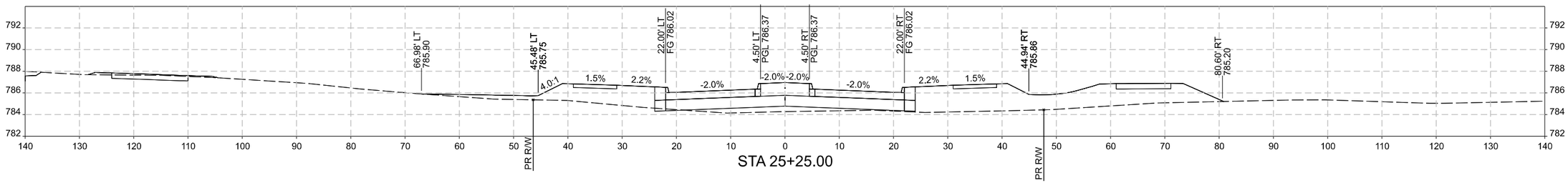
CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

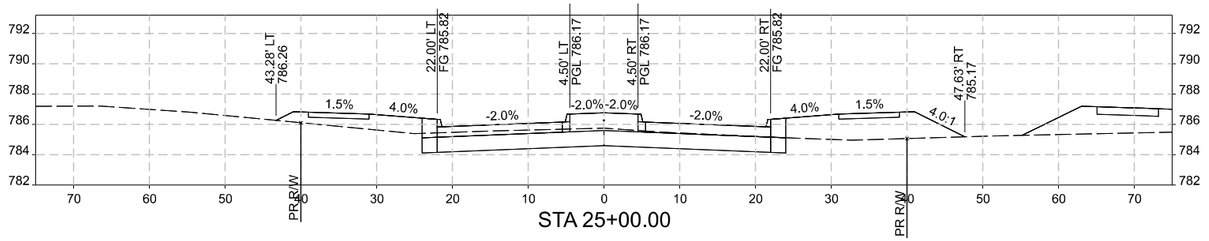
DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:
Project No: 116.0663		Sheet W.13	



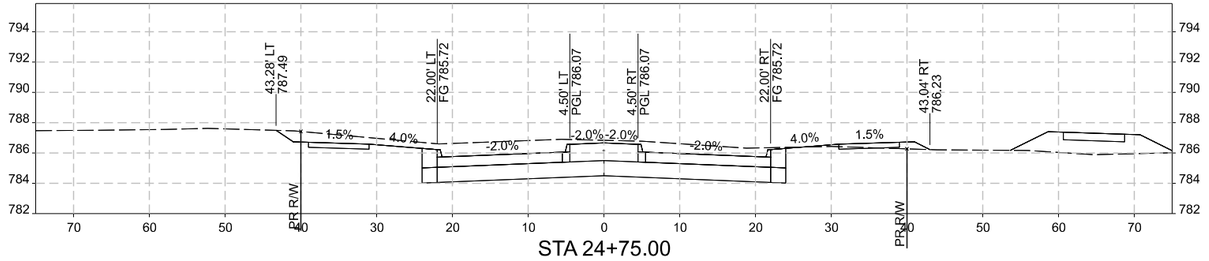
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STA 25+25.00



STA 25+00.00



STA 24+75.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:

Technician: KMM | Date: 5/12/2026

Project No: 116.0663

Sheet W.14

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

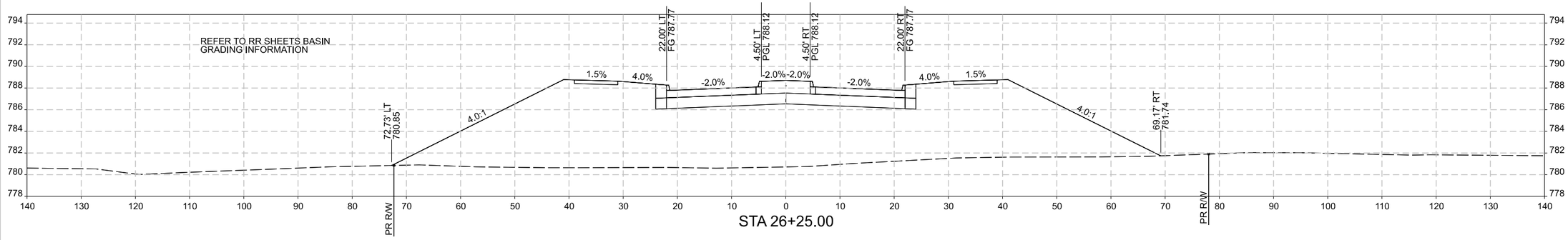
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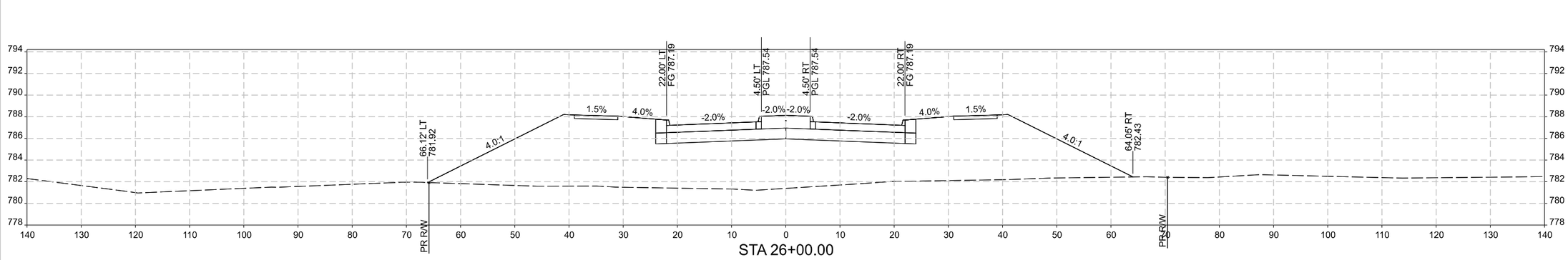
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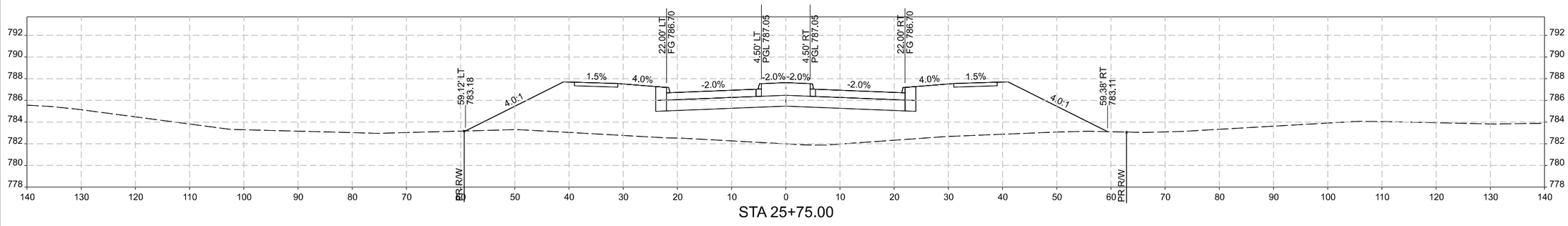
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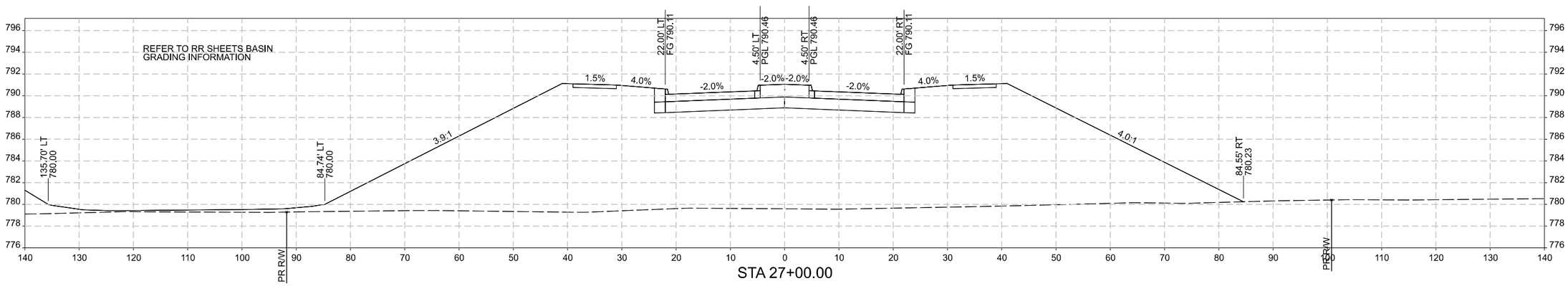
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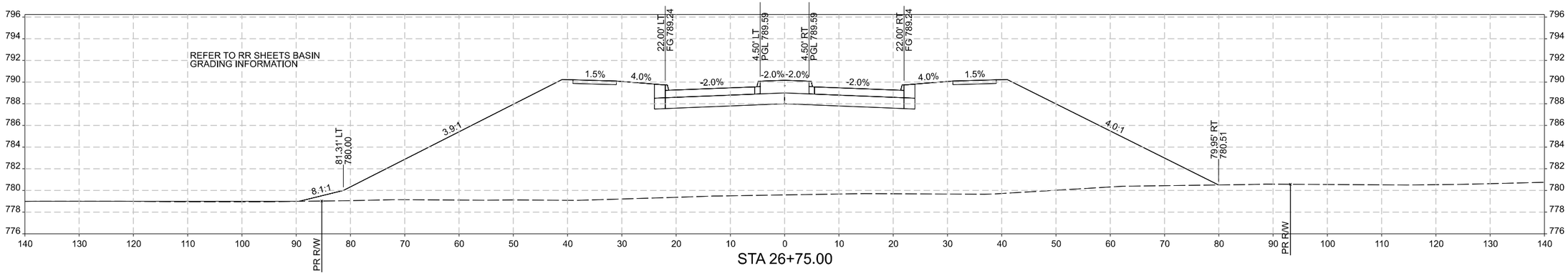
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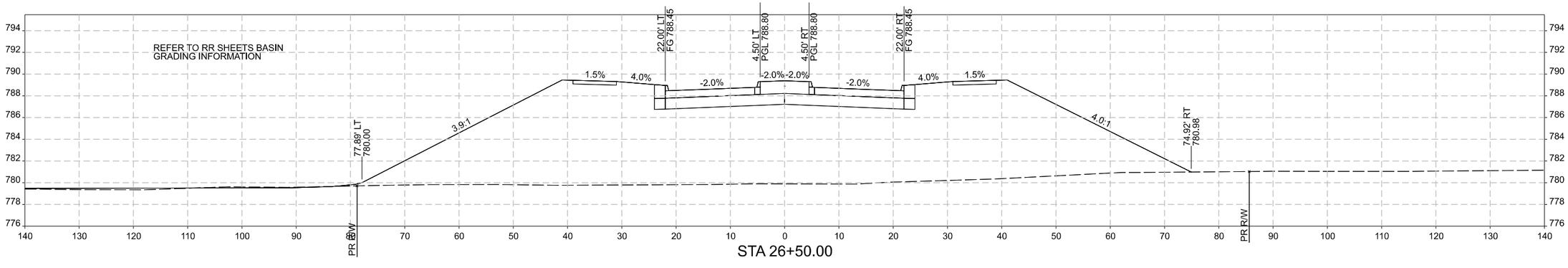












DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet W.16

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

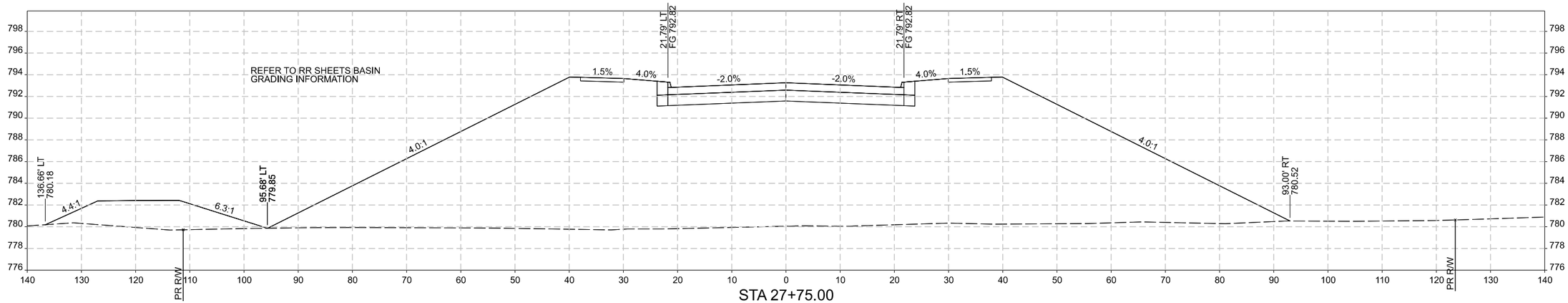
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CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

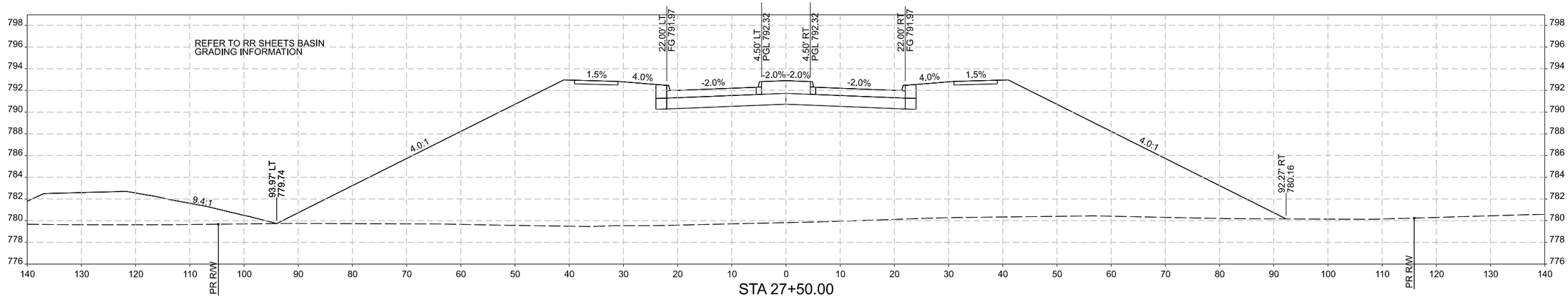
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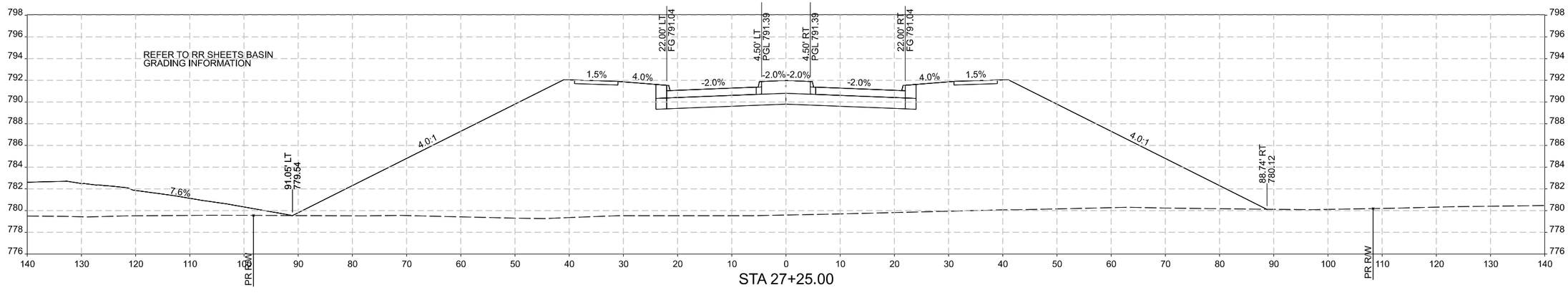
Project No: 116.0663

Sheet W.16

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MARK	DATE	BY
FINAL PLANS	5/13/2026	
REVISION	DATE	BY

DOT PROJECT NUMBER: HDP-4775(646)--71-57

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:

Technician: KMM | Date: 5/12/2026

Project No: 116.0663

Sheet W.17

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

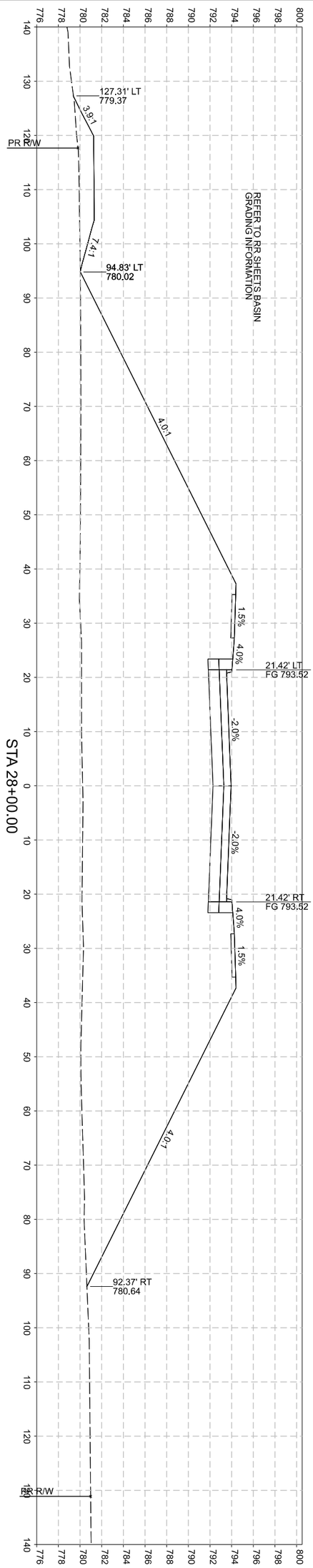
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

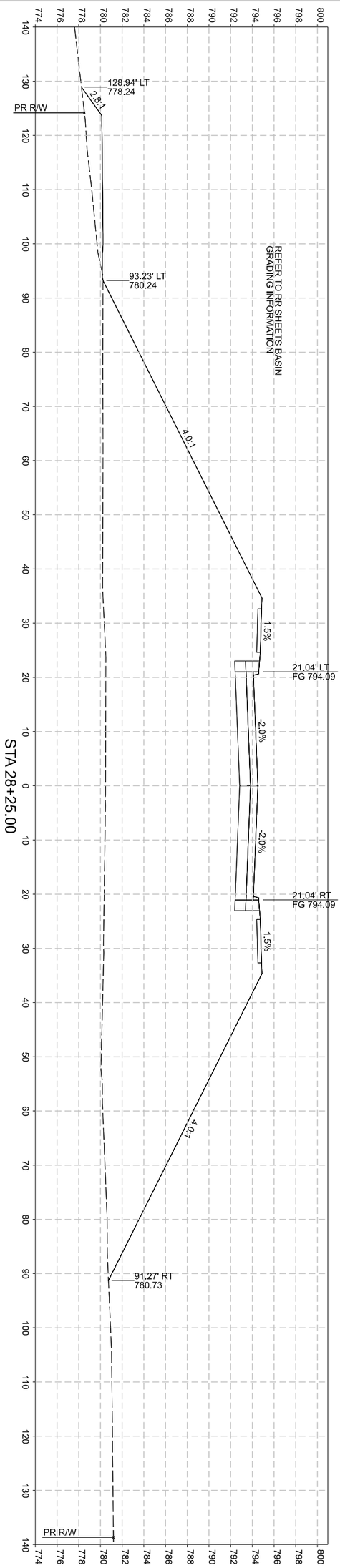
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet W.17

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Sheet W.18

Project No: 116.0663

SNYDER & ASSOCIATES

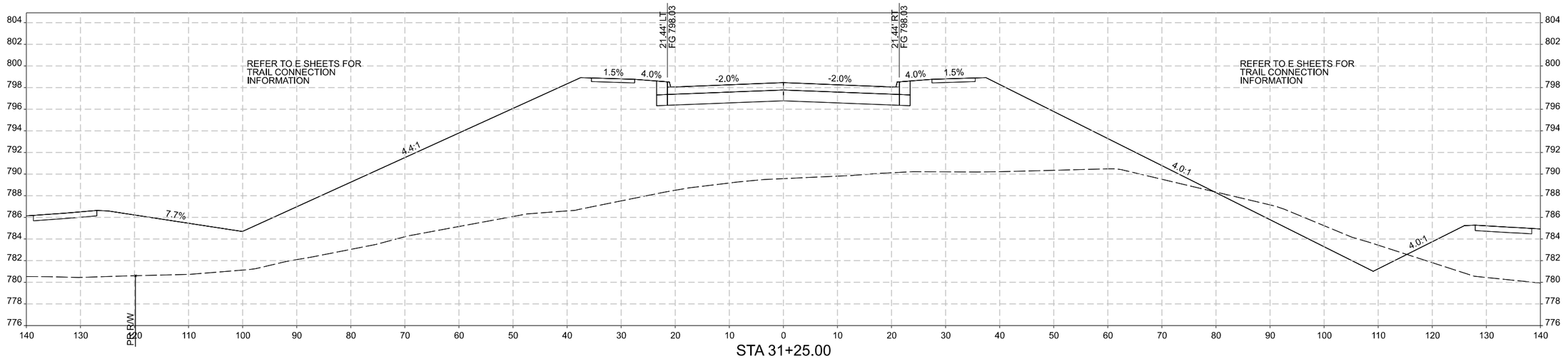
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

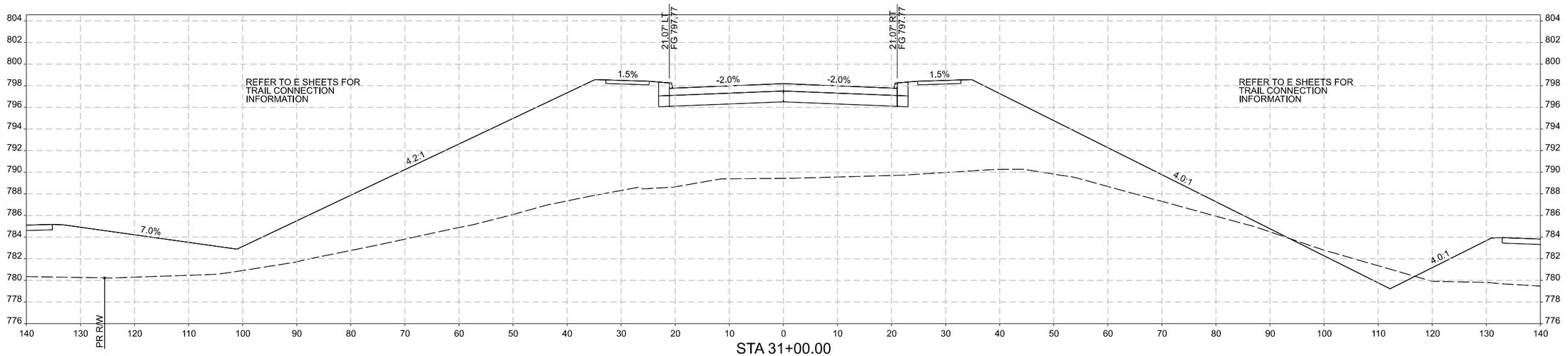
CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
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DOT PROJECT NUMBER: HDP-4775(646)--71-57				
FINAL PLANS			5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:	
Project No: 116.0663		Sheet W.18		



STA 31+25.00



STA 31+00.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk:

Technician: KMM | Date: 5/12/2026 | Pg:

Project No: 116.0663

Sheet W.19

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

SNYDER & ASSOCIATES, INC.

900 BELL DRIVE S.W.
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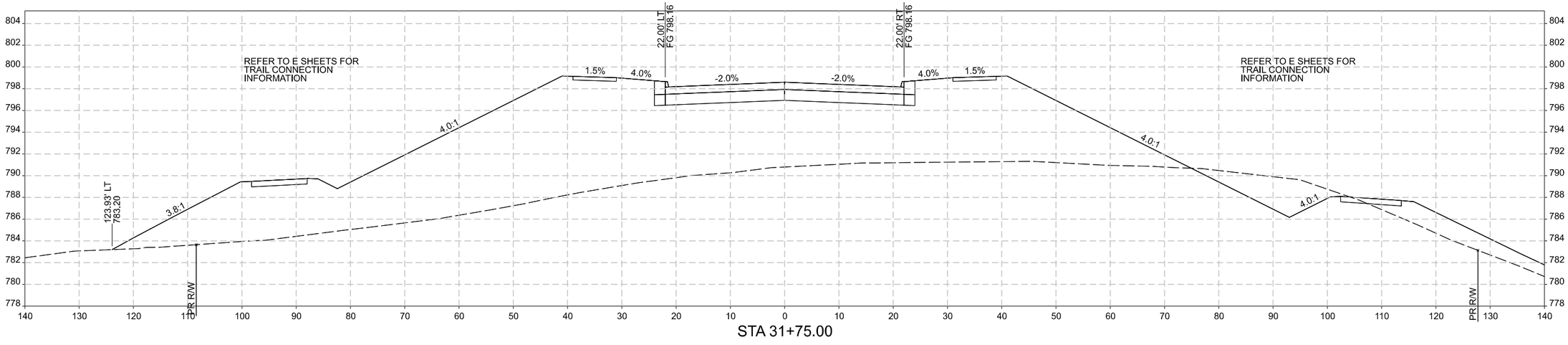
SNYDER & ASSOCIATES

Project No: 116.0663

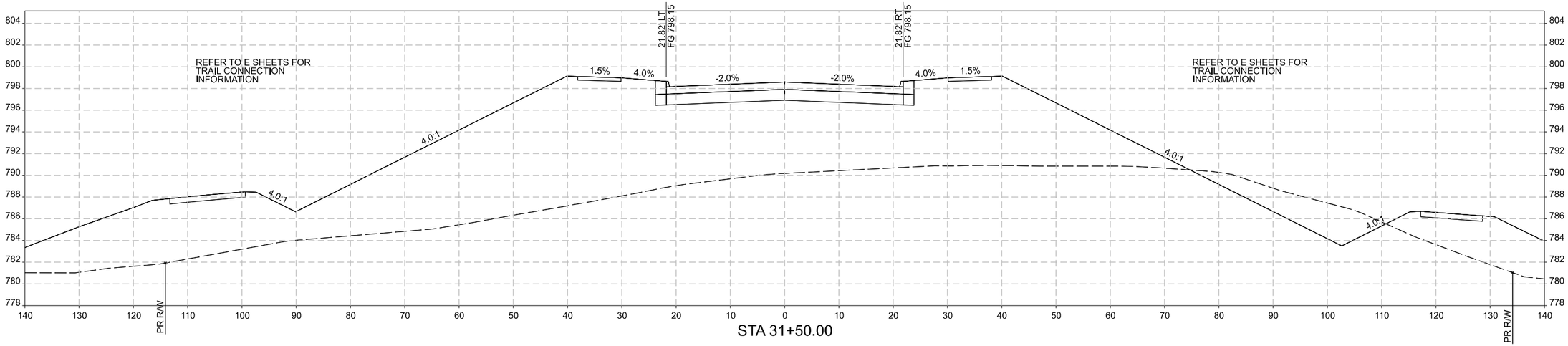
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STA 31+75.00



STA 31+50.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS	5/13/2026	
MARK:	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:

Project No: 116.0663

Sheet W.20

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

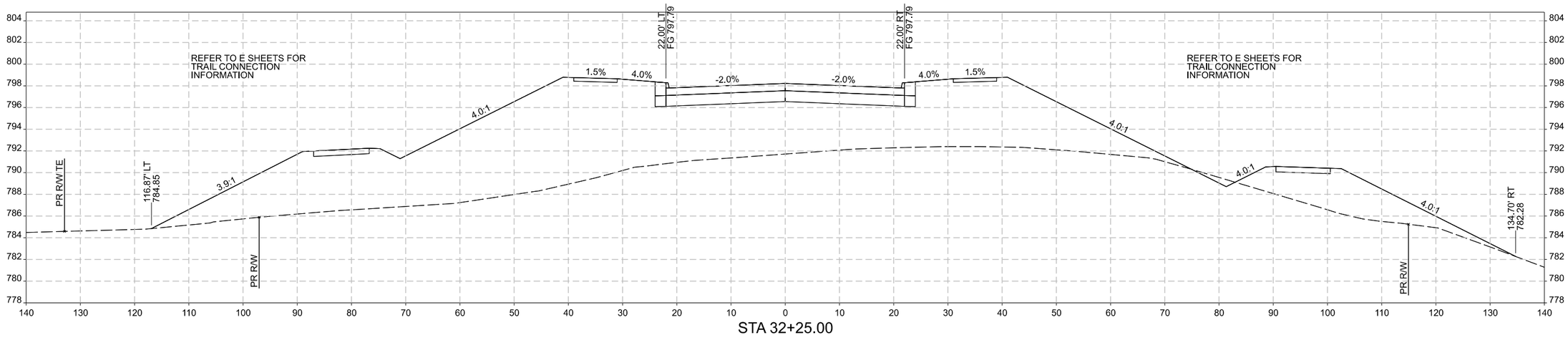
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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SNYDER & ASSOCIATES

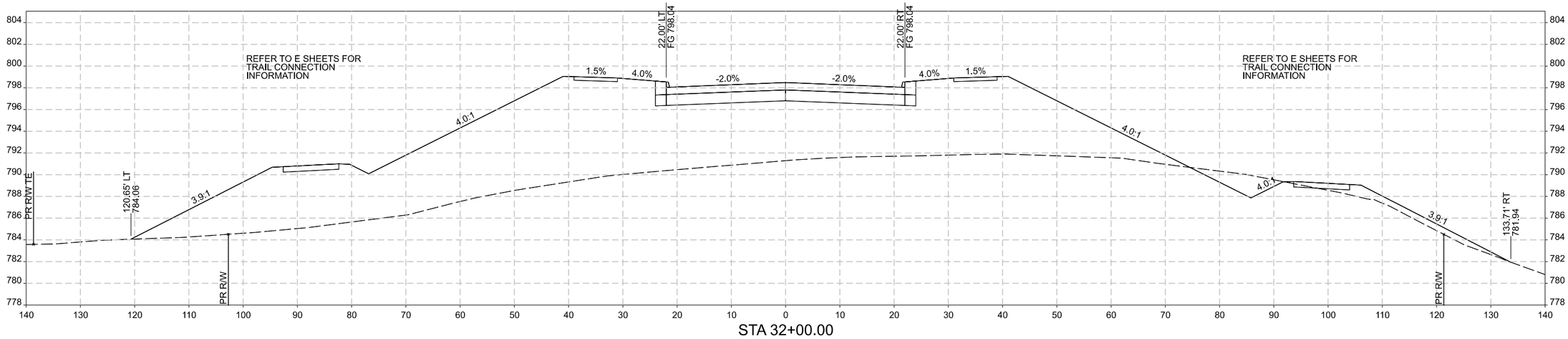
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Sheet W.20

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STA 32+25.00



STA 32+00.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	5/13/2026	

Engineer: MGB | Checked By: DMS | Field Bk: | Pg:

Technician: KMM | Date: 5/12/2026

Project No: 116.0663

Sheet W.21

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

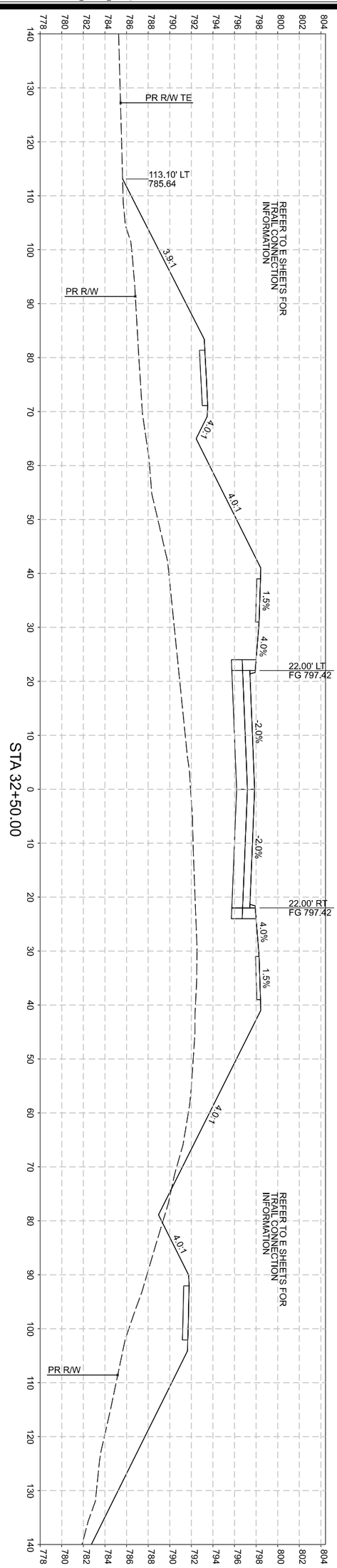
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
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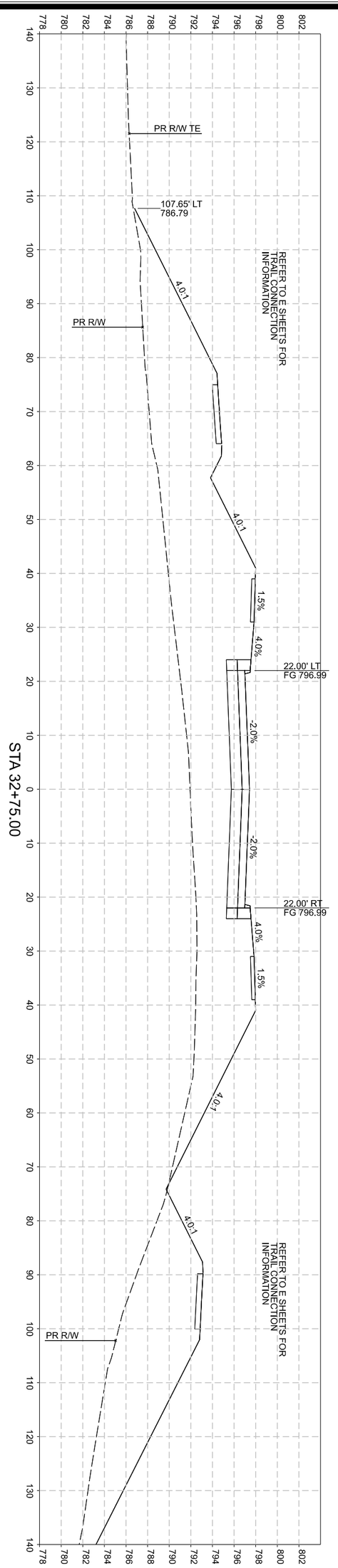
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet W.21

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Sheet W.22
Project No: 116.0663

SNYDER & ASSOCIATES

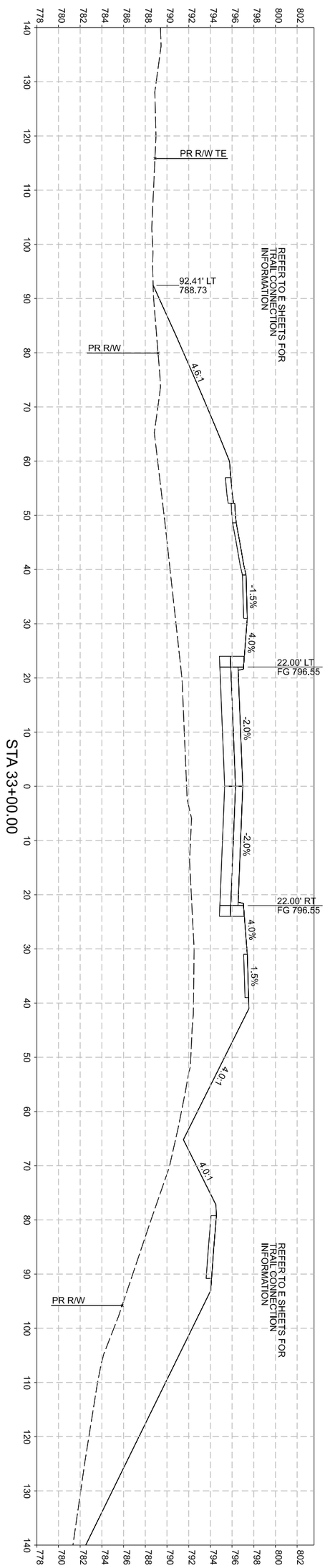
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

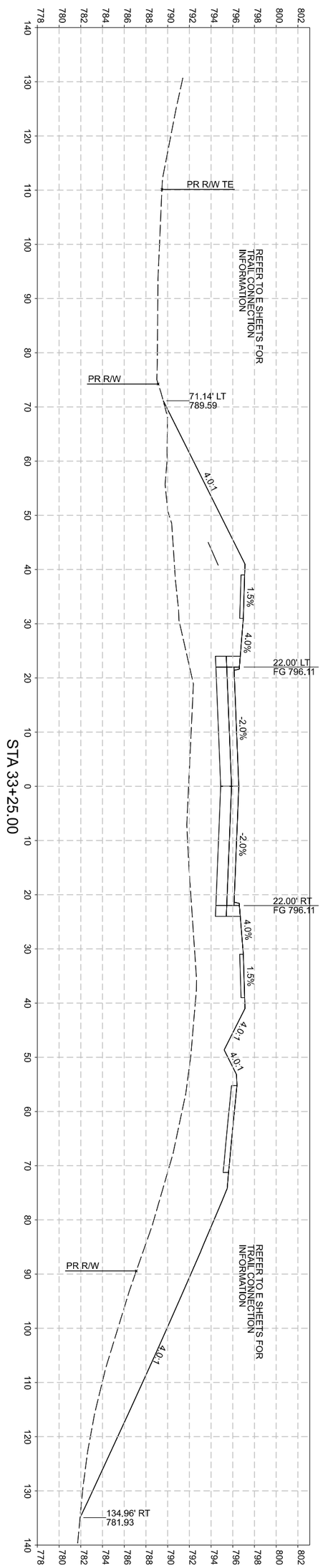
CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:
Project No: 116.0663		Sheet W.22	





Sheet W.23
Project No: 116.0663

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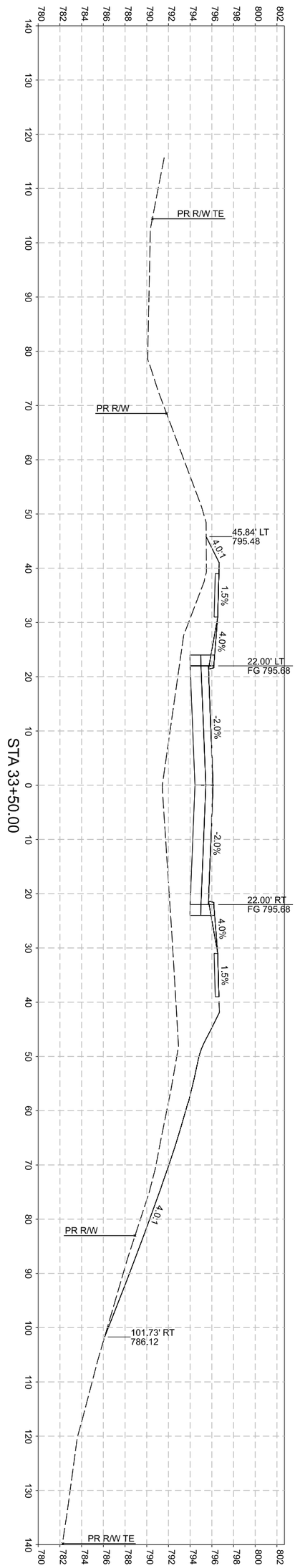
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - ALBURNETT RD

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
		FINAL PLANS	5/13/2026
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:
Project No: 116.0663		Sheet W.23	



ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

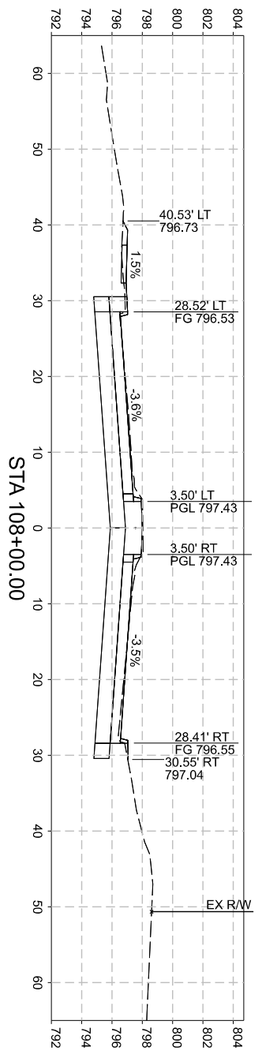
CROSS SECTIONS - ALBURNETT RD

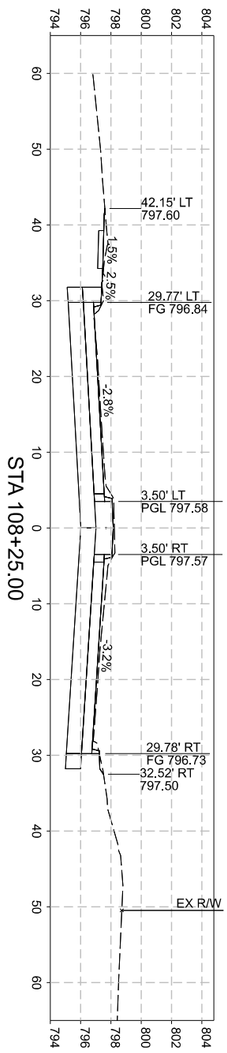
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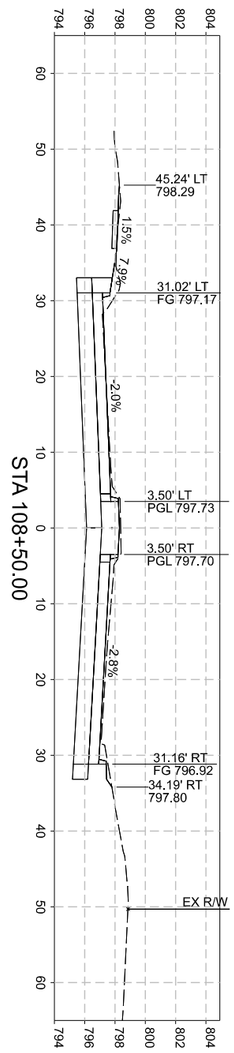
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
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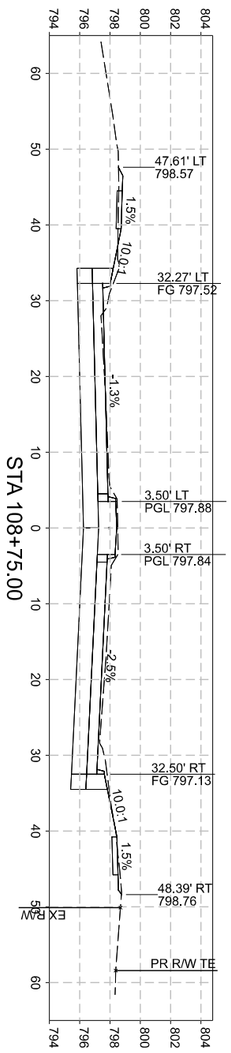
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	FINAL PLANS		5/13/2026	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS			
Technician: KMM	Date: 5/12/2026	Field Bk:	Pg:	
Project No: 116.0663		Sheet W.24		

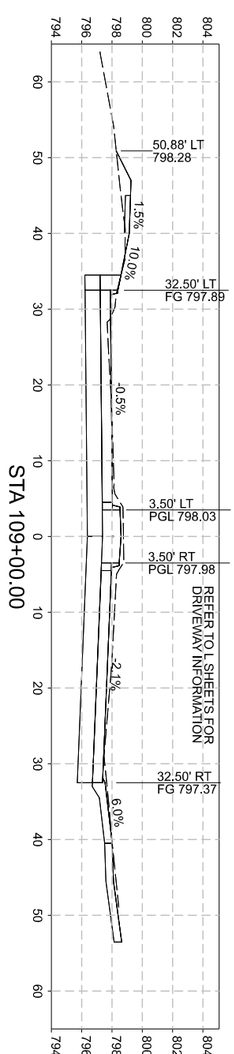
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Project No: 116.0663

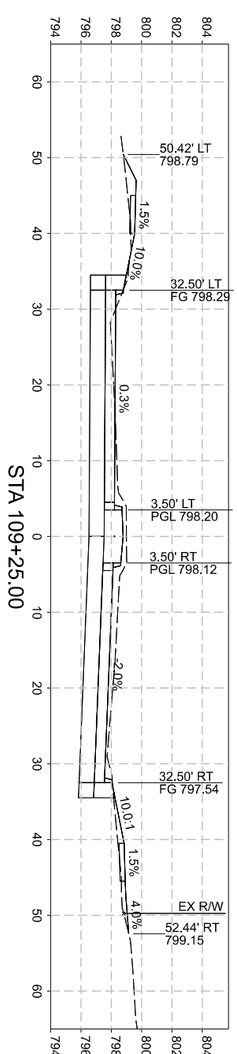


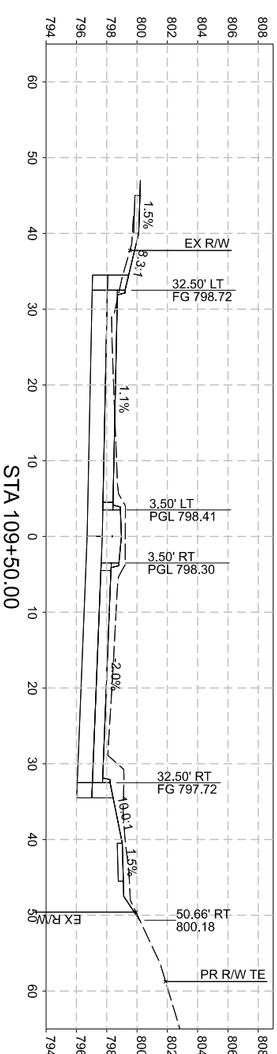


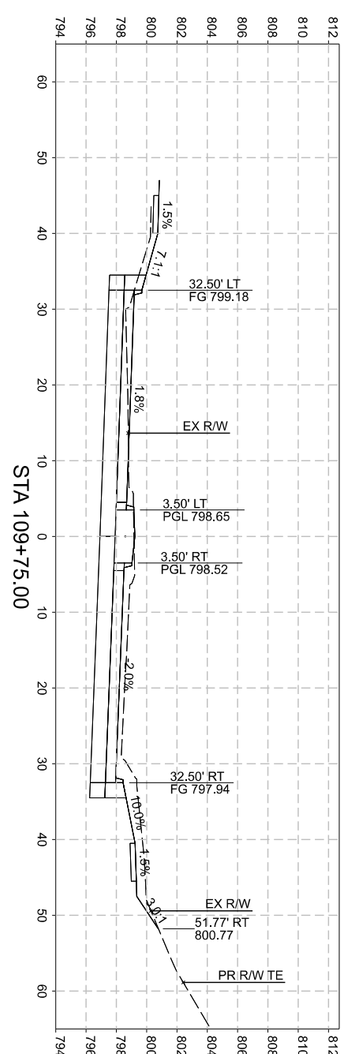












Sheet X.1

Project No: 116.0663

SNYDER & ASSOCIATES

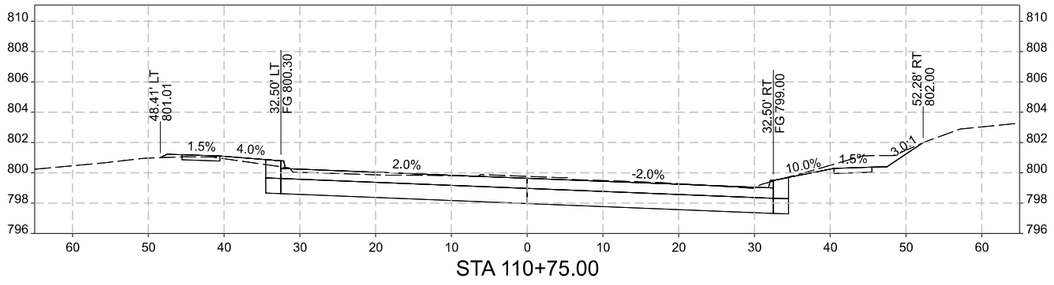
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - MARION BLVD

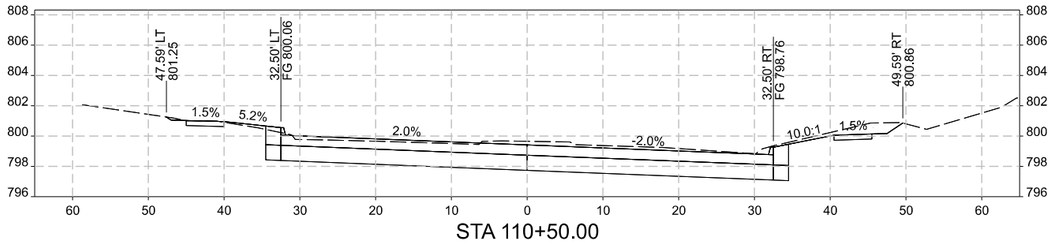
CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

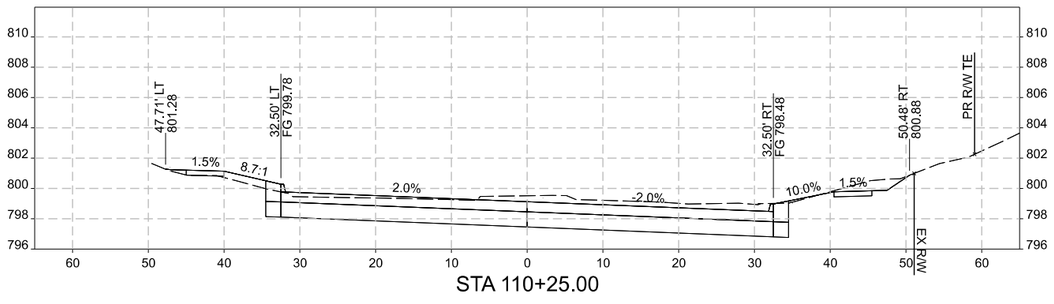
DOT PROJECT NUMBER: HDP-4775(646)--71-57				
FINAL PLANS			05/13/26	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS		Scale: 1"=	
Technician: KMM	Date: 5/13/2026		Field Bk:	Pg:
Project No: 116.0663			Sheet X.1	



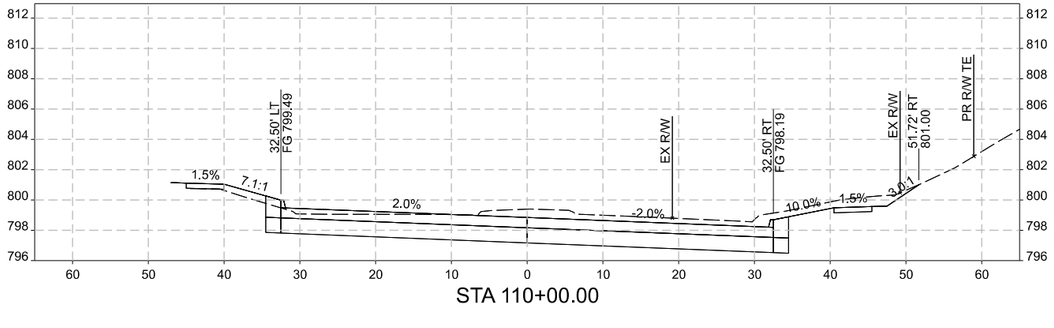
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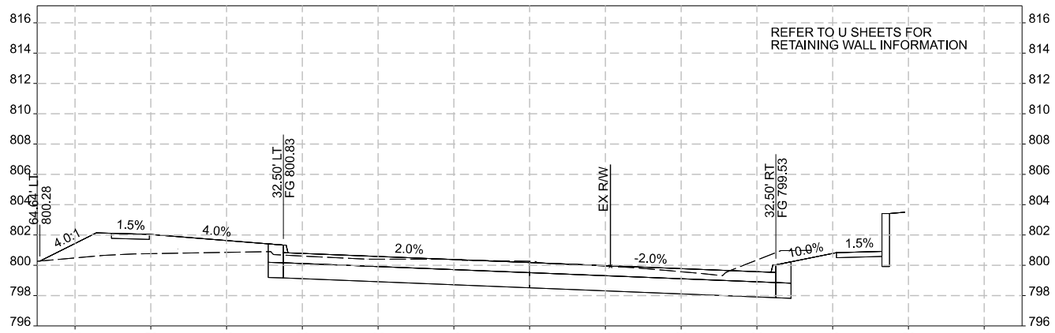
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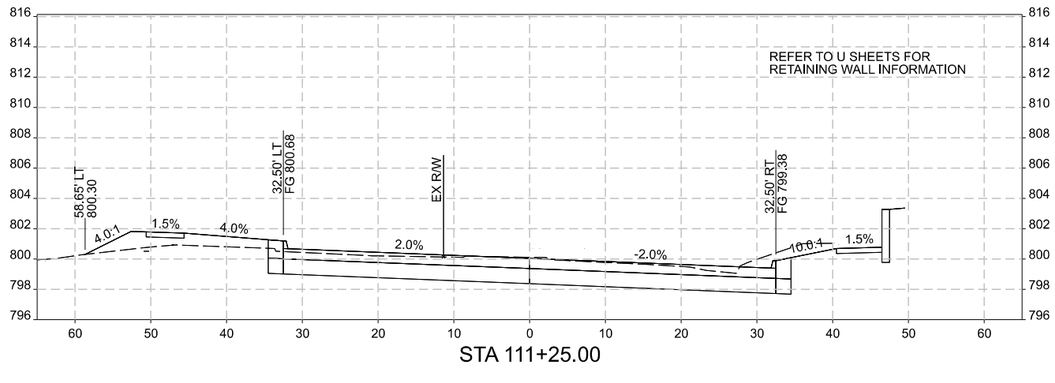
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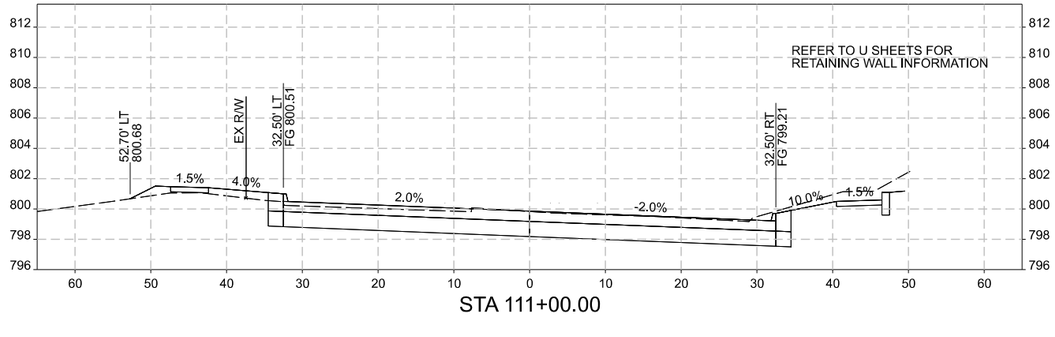
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STA 111+50.00



STA 111+25.00



STA 111+00.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Scale: 1"=
Technician: KMM | Date: 5/13/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet X.2

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - MARION BLVD

SNYDER & ASSOCIATES, INC.

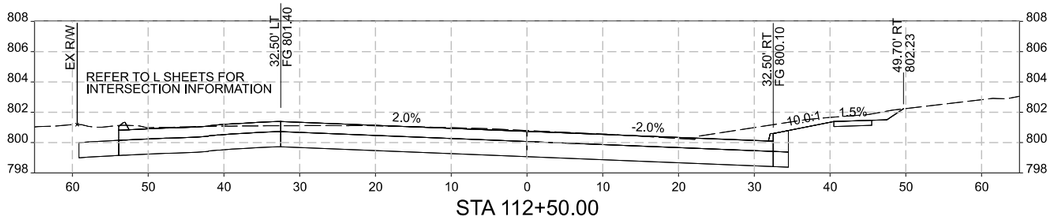
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

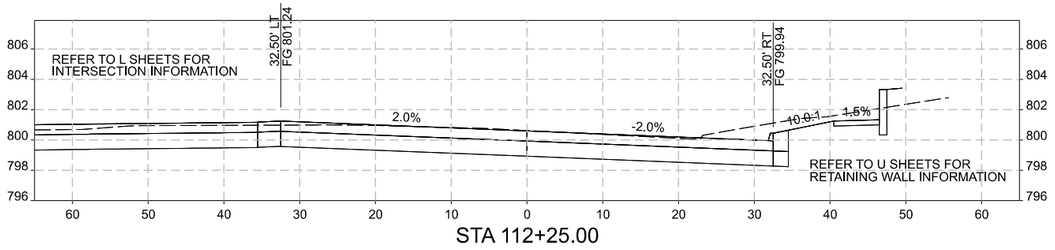
Project No: 116.0663

Sheet X.2

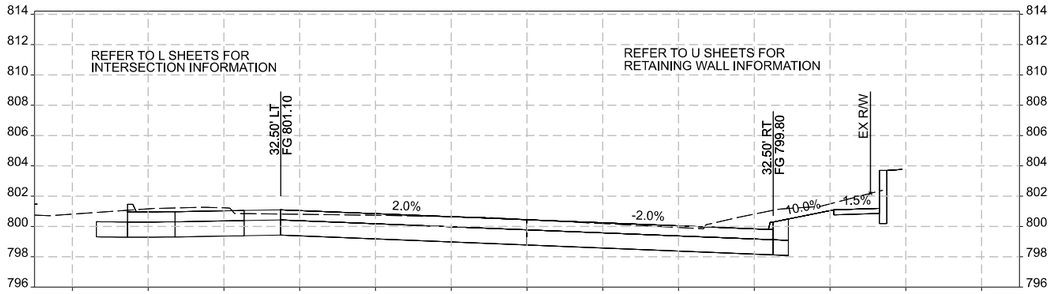
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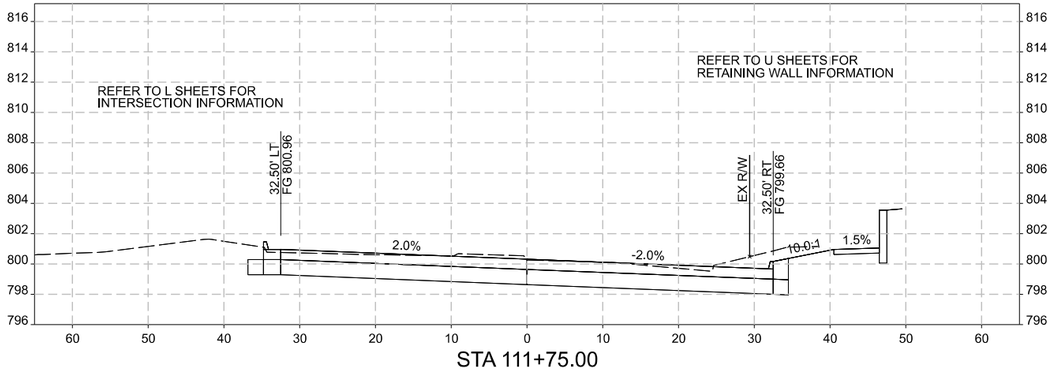
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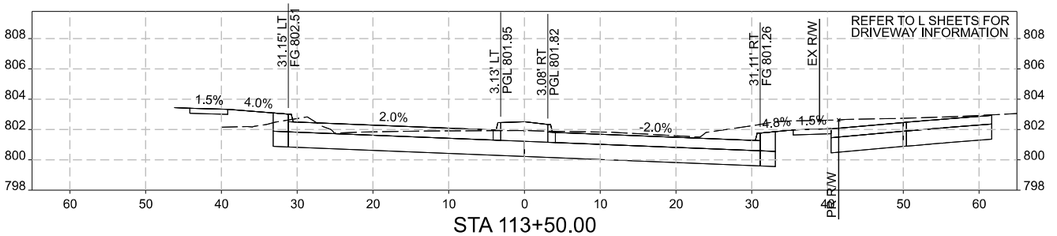
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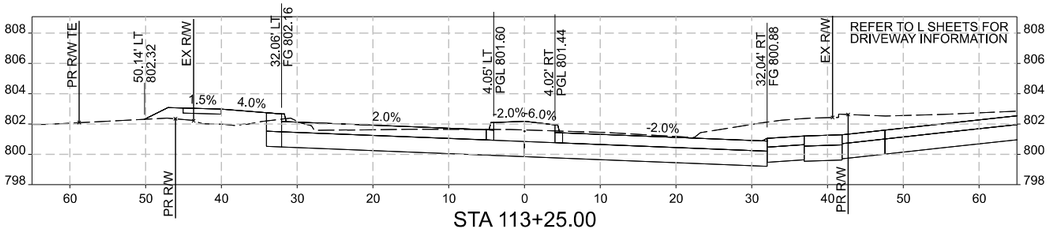
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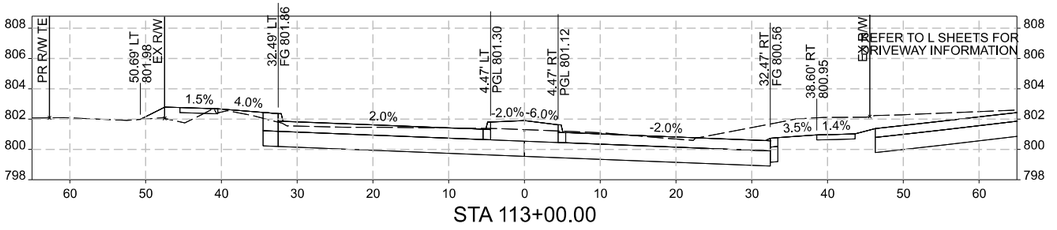
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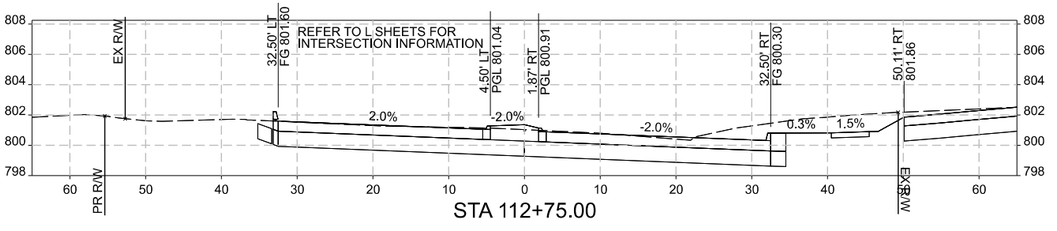
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STA 113+25.00



STA 113+00.00



STA 112+75.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Scale: 1"=
Technician: KMM | Date: 5/13/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet X.3

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - MARION BLVD

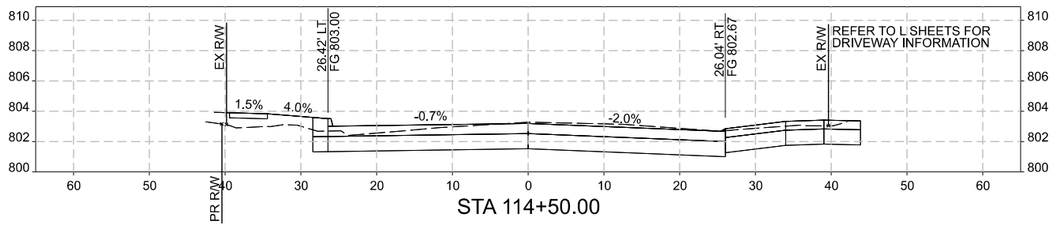
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

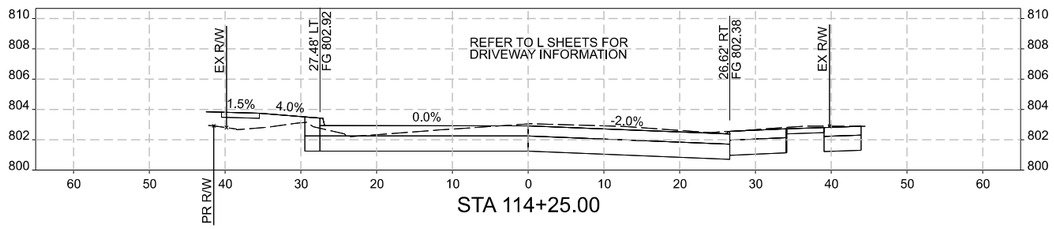
SNYDER & ASSOCIATES

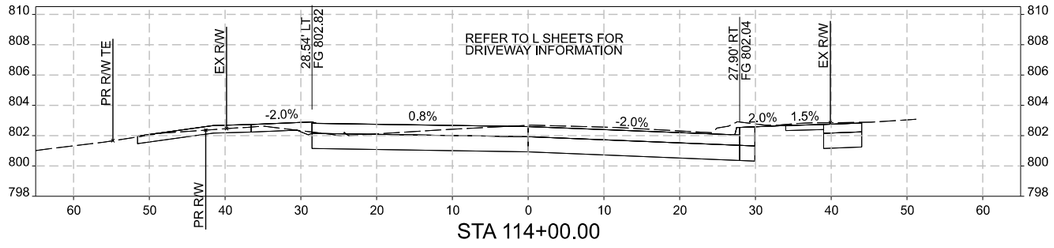
Project No: 116.0663

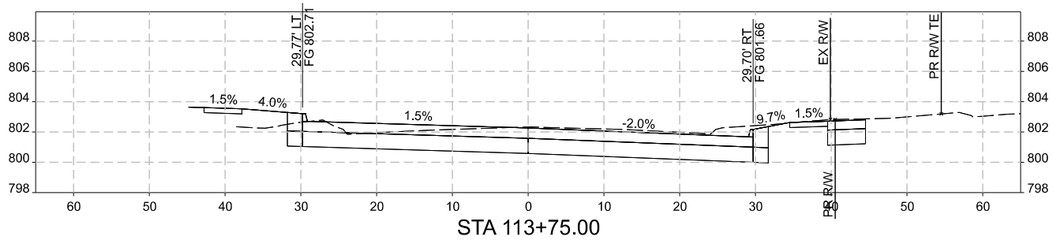
Sheet X.3

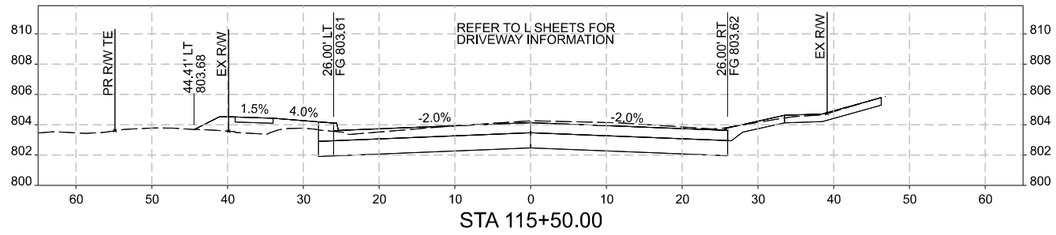
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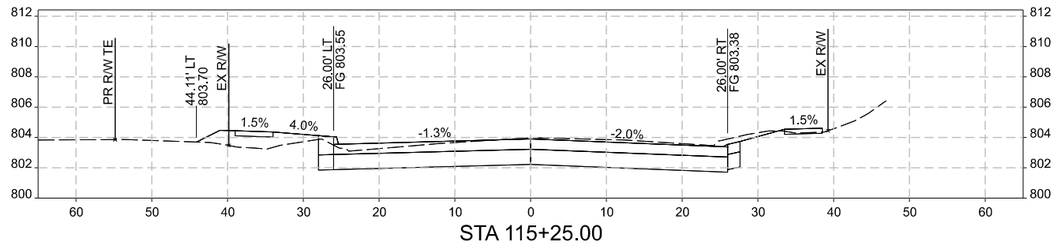


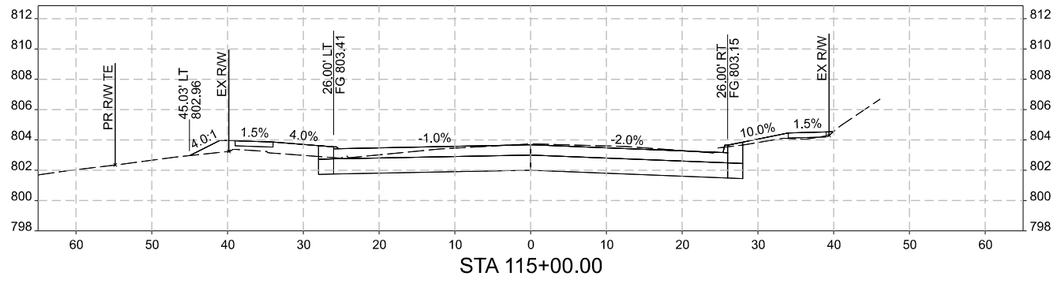


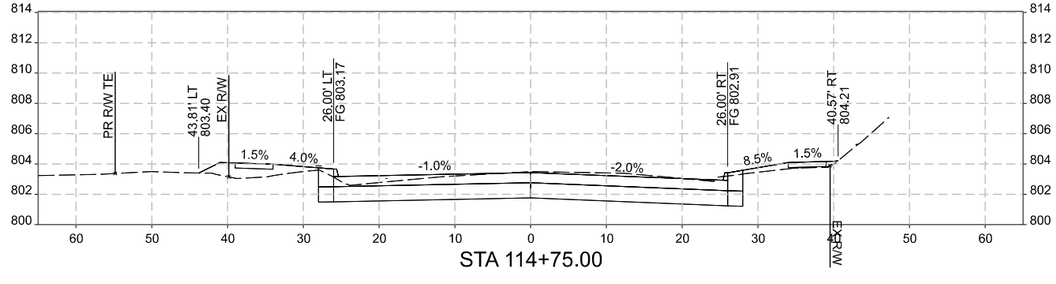












DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Scale: 1"=
Technician: KMM | Date: 5/13/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet X.4

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - MARION BLVD

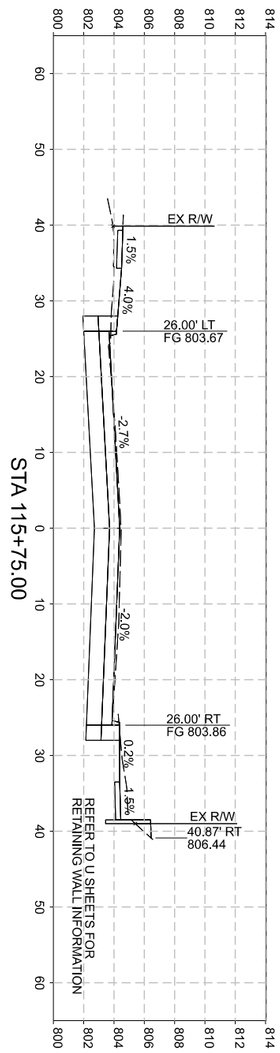
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

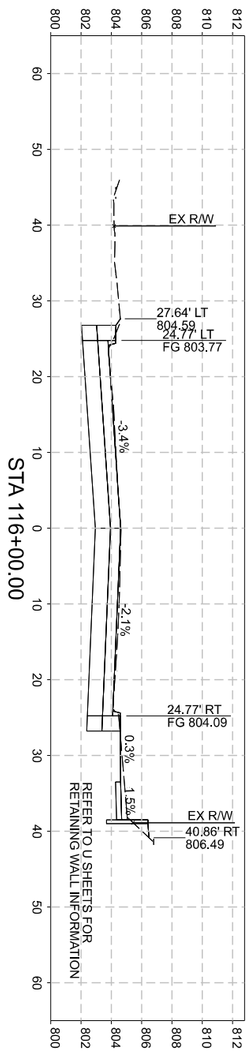
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet X.4

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Sheet X.5

Project No: 116.0663

SNYDER & ASSOCIATES

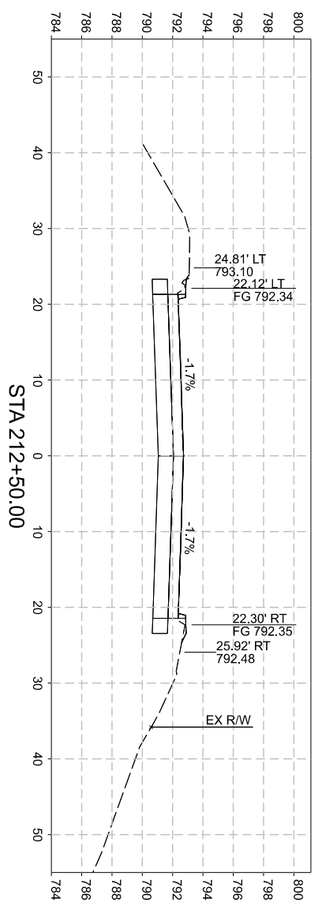
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

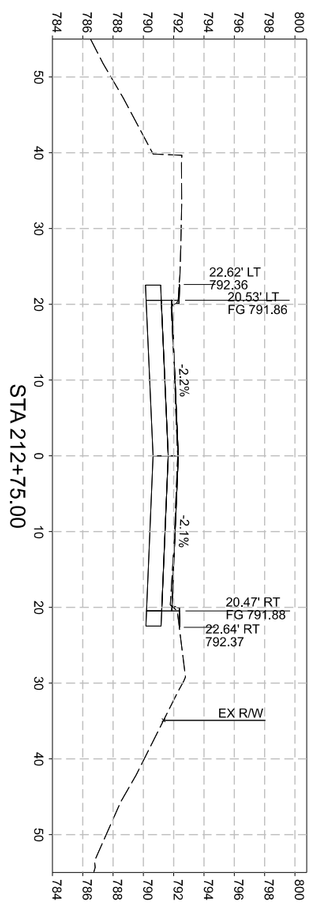
CROSS SECTIONS - MARION BLVD

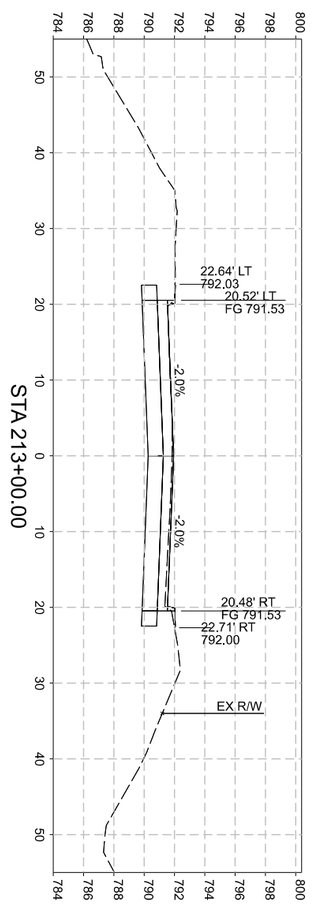
CITY OF MARION, IOWA

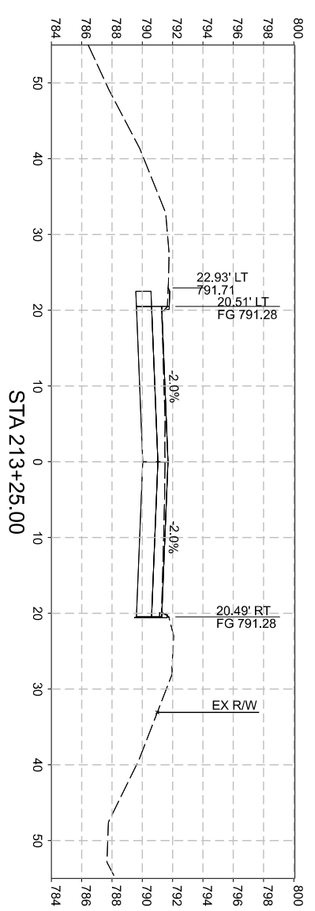
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

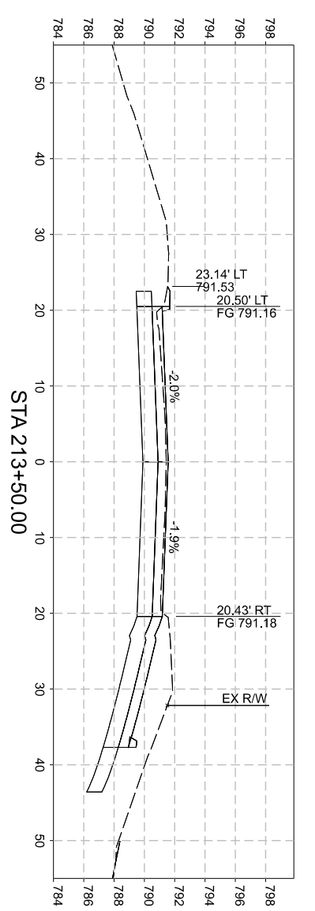
	DOT PROJECT NUMBER: HDP-4775(646)--71-57			
	FINAL PLANS		05/13/26	
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS		Scale: 1"=	
Technician: KMM	Date: 5/13/2026		Field Bk:	Pg:
Project No: 116.0663			Sheet X.5	

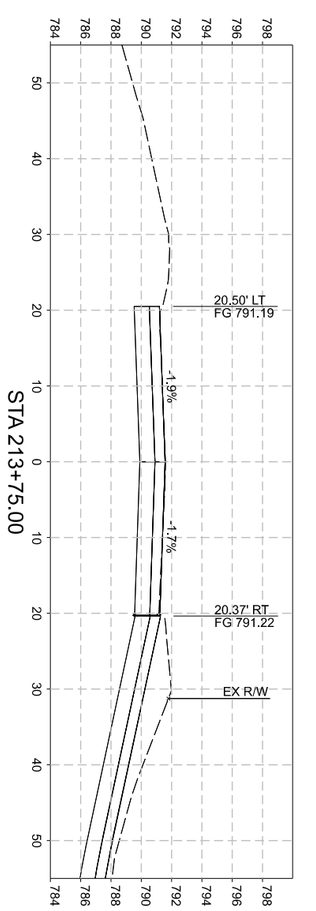












Sheet X.10 | Project No: 116.0663

SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

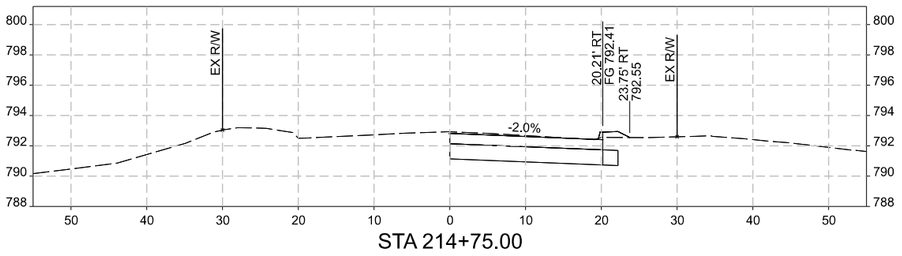
CROSS SECTIONS - 8TH AVE

CITY OF MARION, IOWA

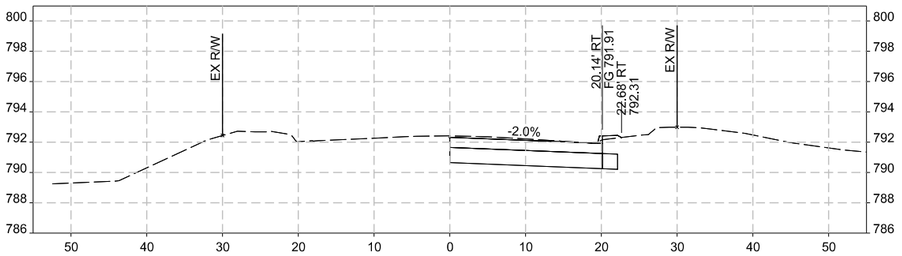
SNYDER & ASSOCIATES, INC.

900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

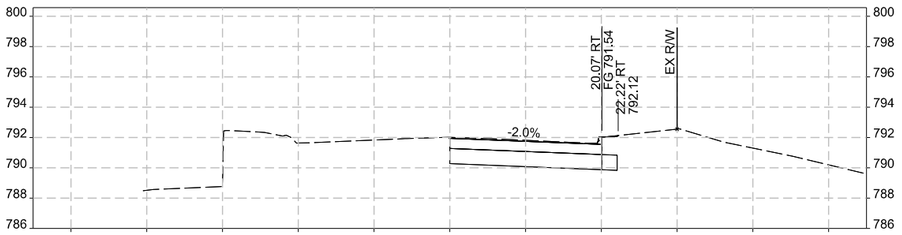
DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet X.10		



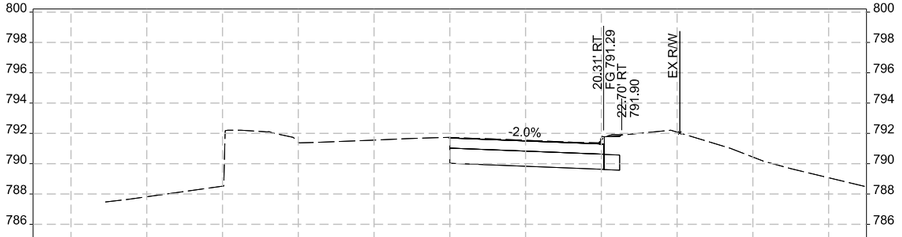
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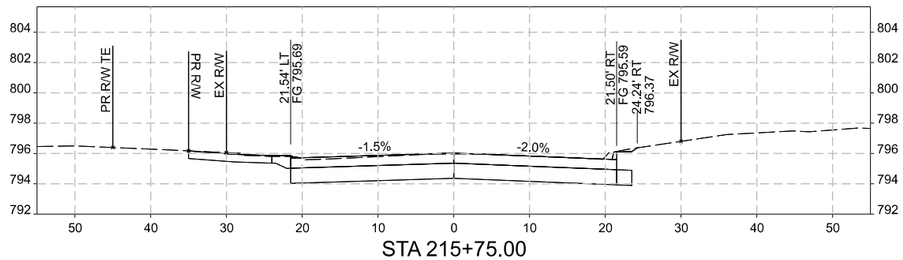
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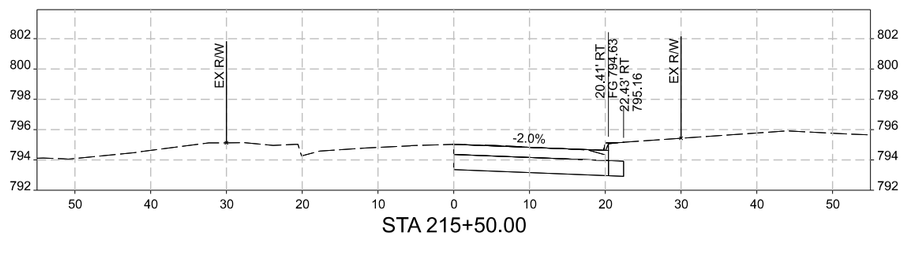
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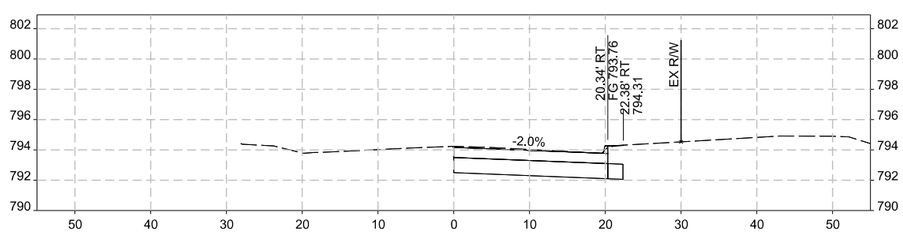
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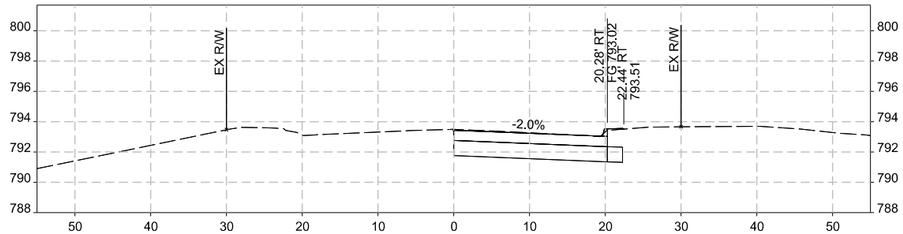
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STA 215+50.00



STA 215+25.00



STA 215+00.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57				
		FINAL PLANS	05/13/26	
		REVISION	DATE	BY
MARK:				
Engineer:	MGB	Checked By:	DMS	
Technician:	KMM	Date:	5/13/2026	T-R-S:
Project No:	116.0663	Sheet	X.11	

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - 8TH AVE

CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

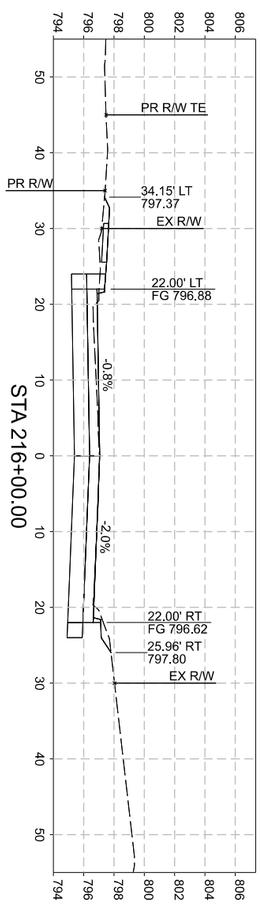
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

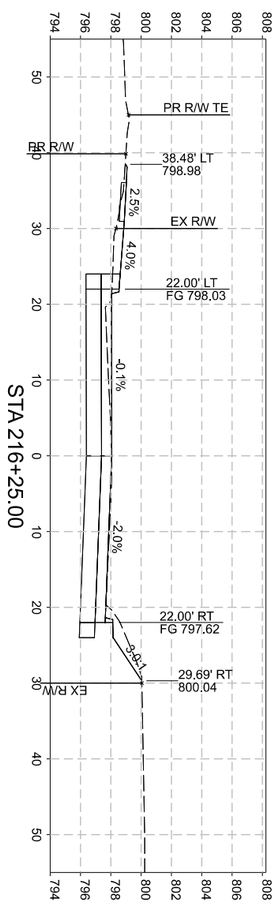
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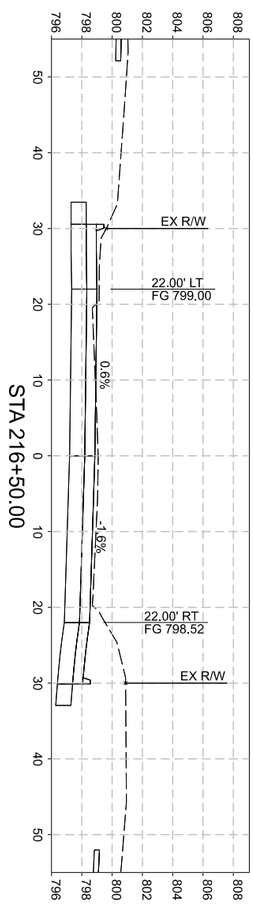
Project No: 116.0663

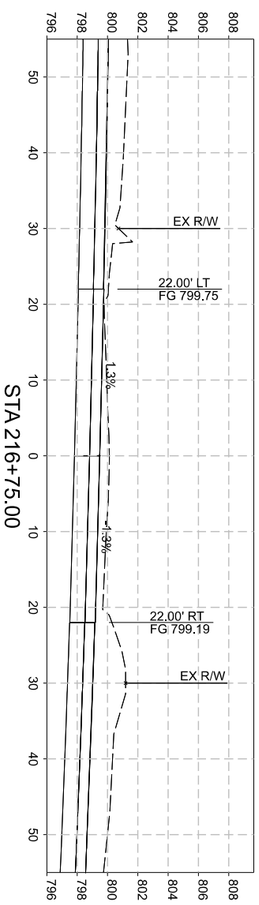
Sheet X.11

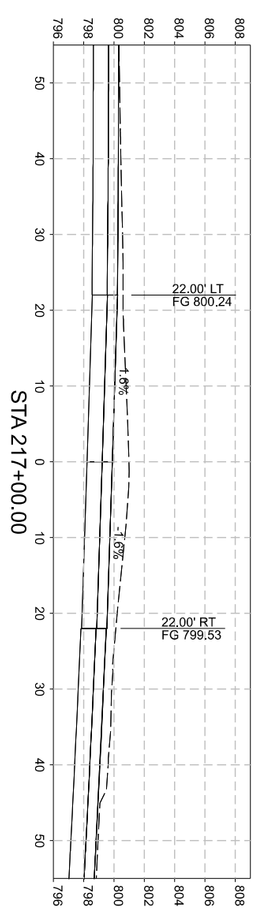
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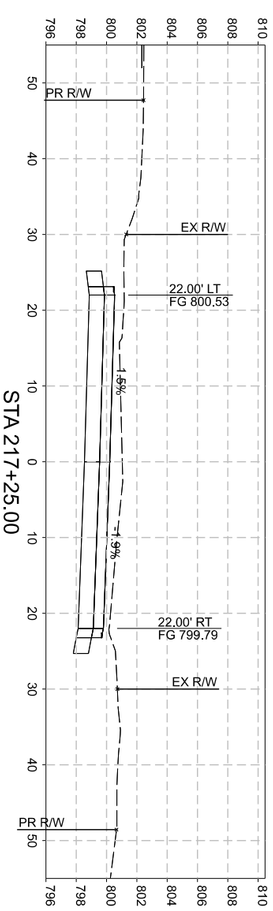


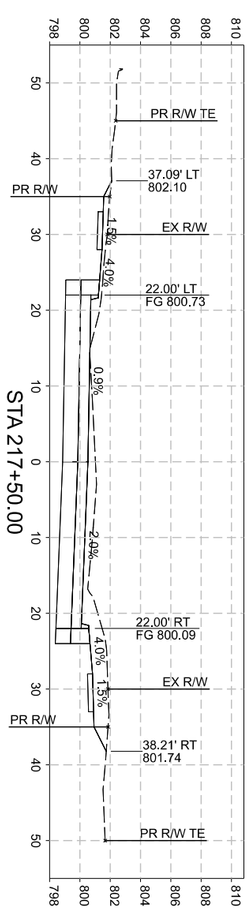


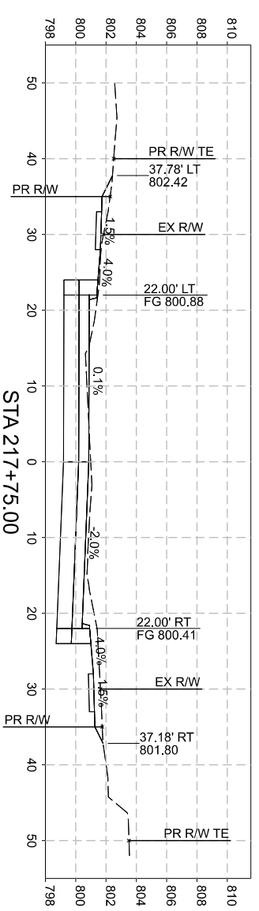












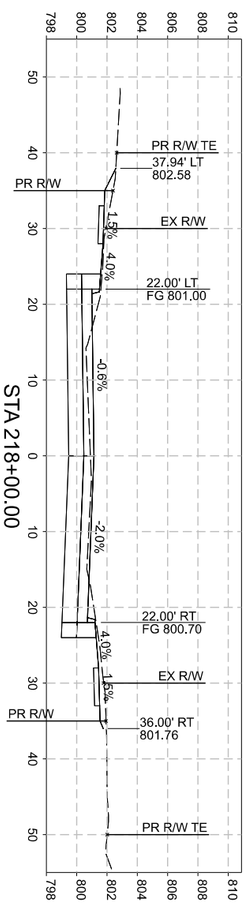
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

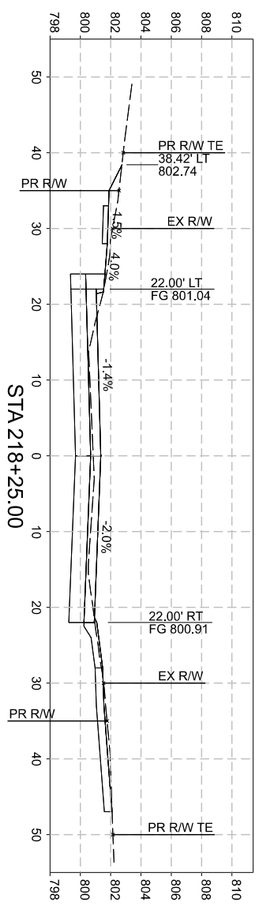
CROSS SECTIONS - 8TH AVE

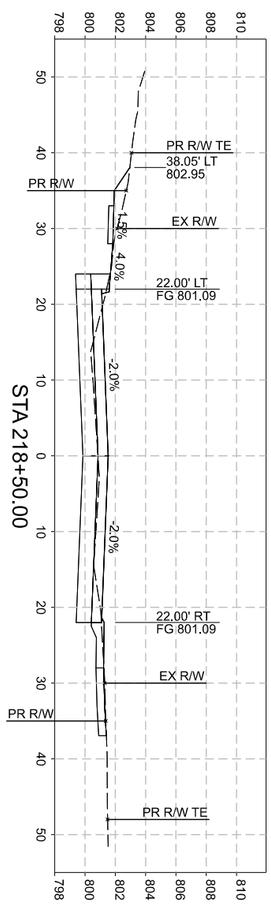
CITY OF MARION, IOWA

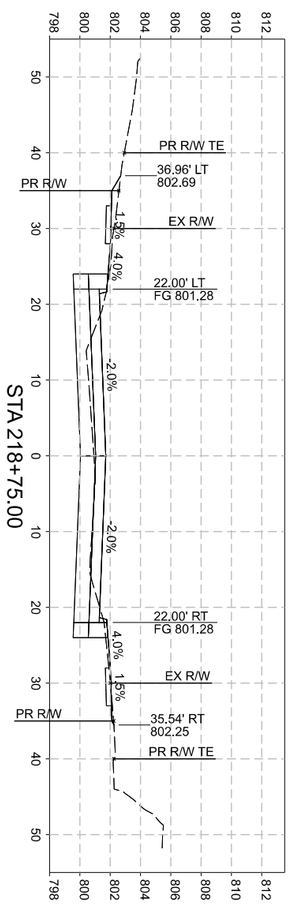
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

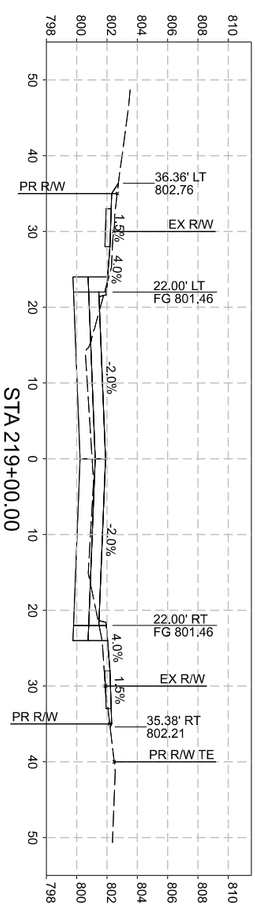
DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet X.12		

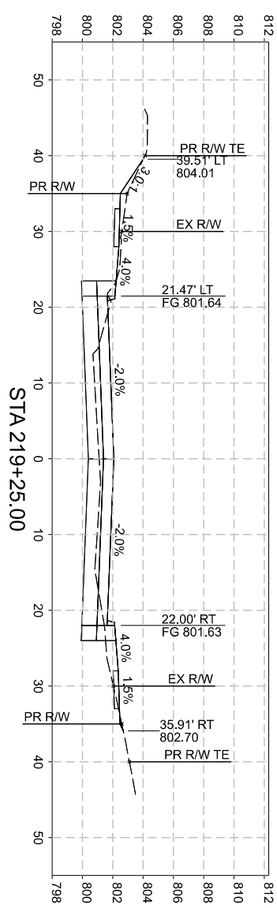


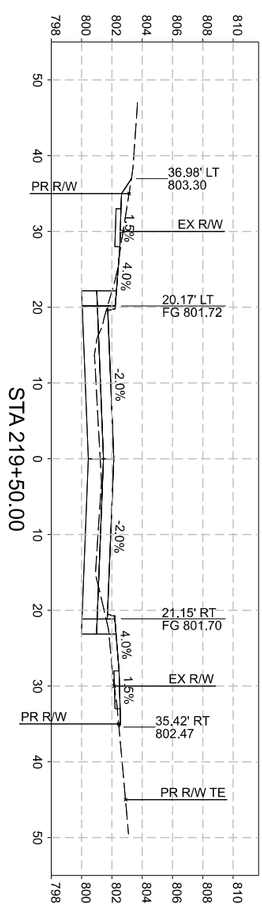


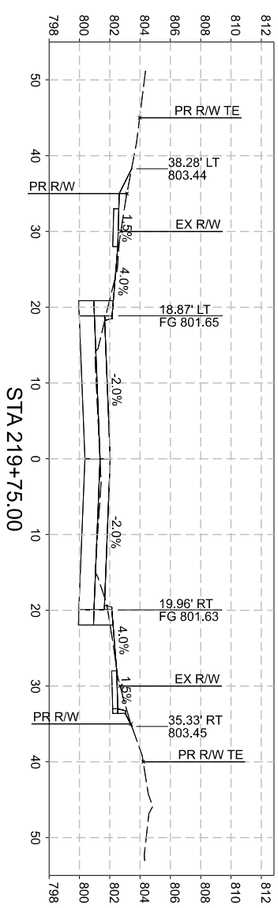












Sheet X.13 | Project No: 116.0663

SNYDER & ASSOCIATES

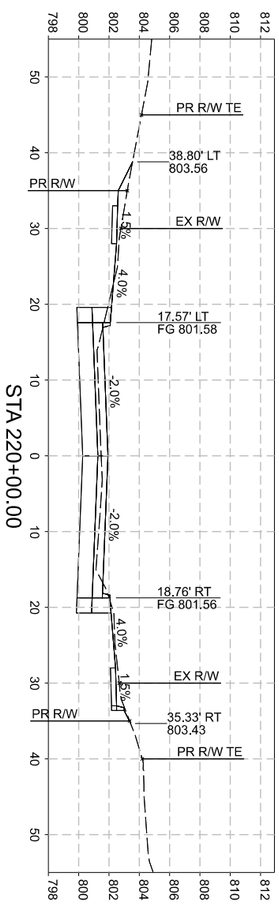
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

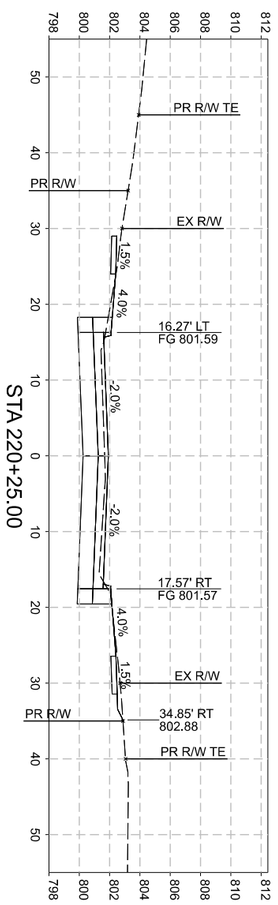
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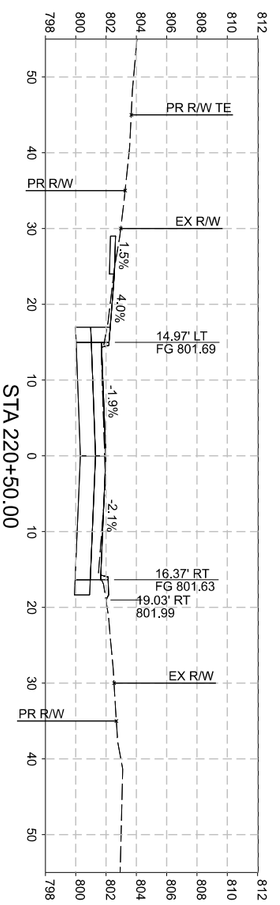
CITY OF MARION, IOWA

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900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet X.13		







Sheet X.14 | Project No: 116.0663

SNYDER & ASSOCIATES

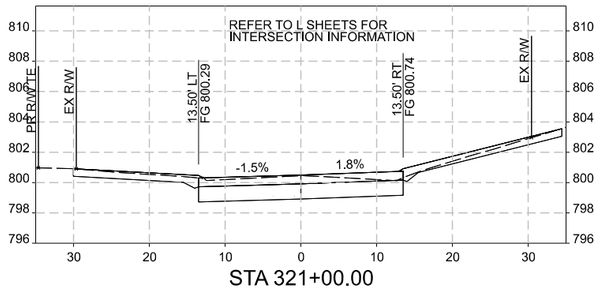
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - 8TH AVE

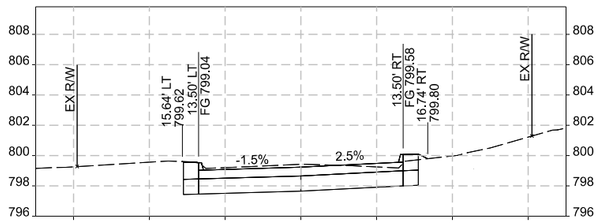
CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

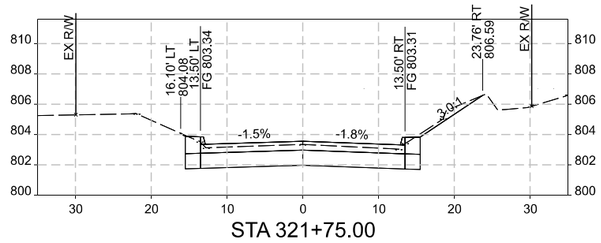
DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet X.14		



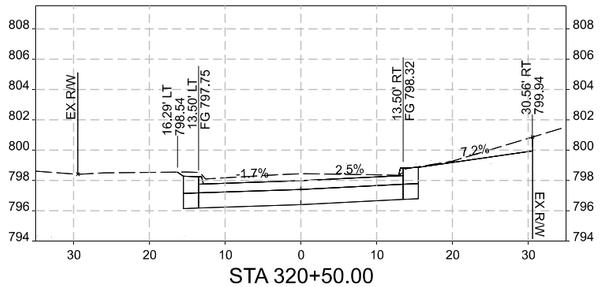
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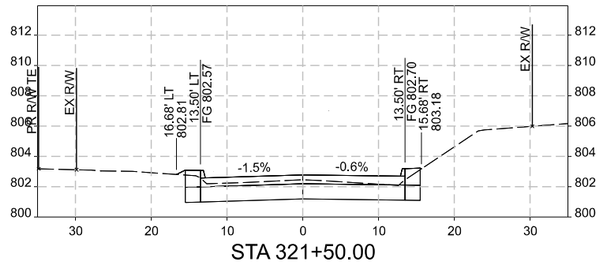
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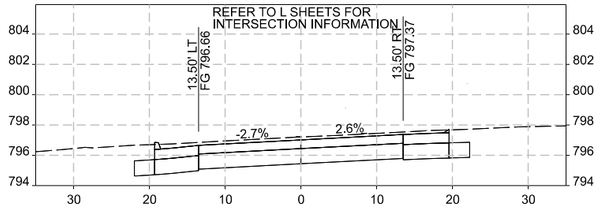
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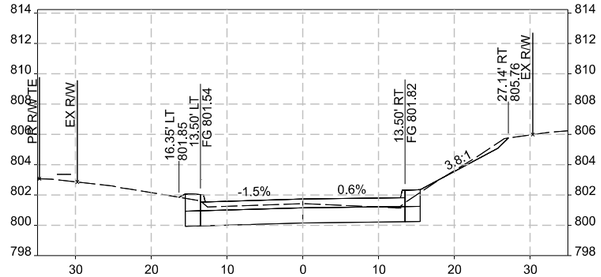
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STA 321+50.00



STA 320+25.00



STA 321+25.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Scale: 1"= 10'
Technician: KMM | Date: 5/13/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet X.20

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - 9TH AVE

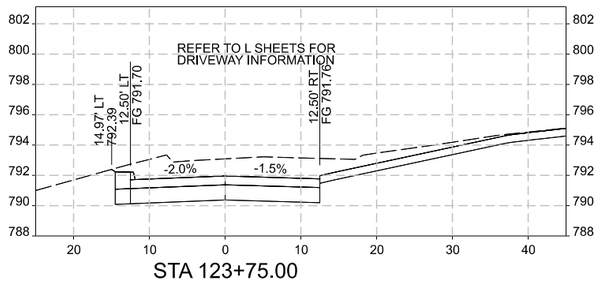
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

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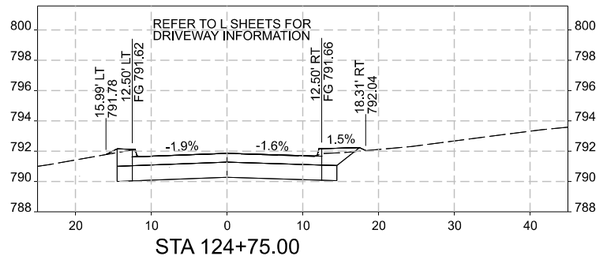
Project No: 116.0663

Sheet X.20

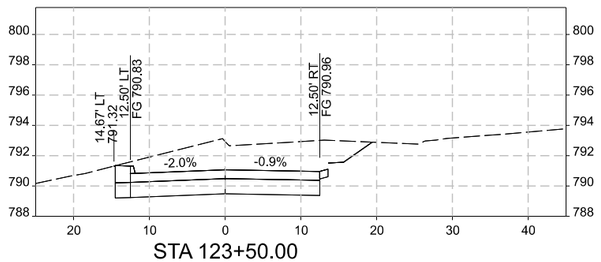
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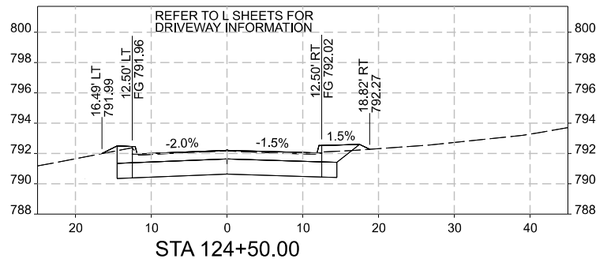
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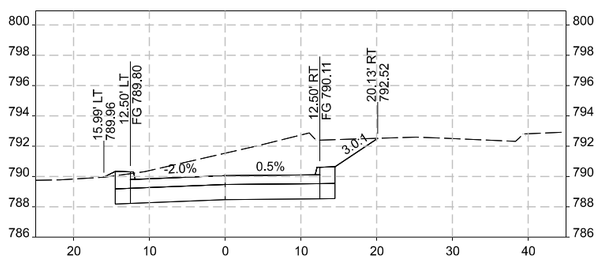
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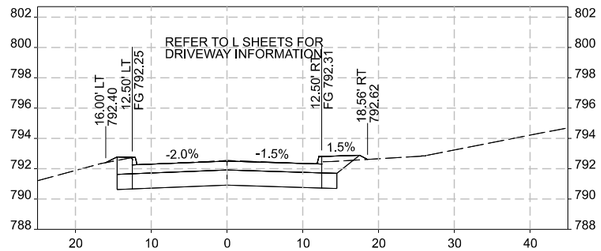
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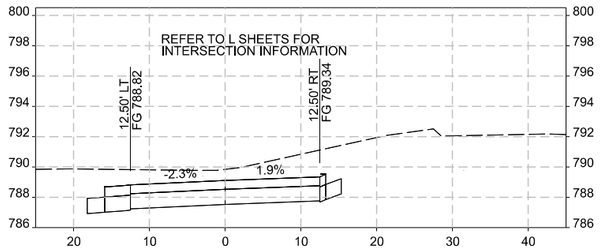
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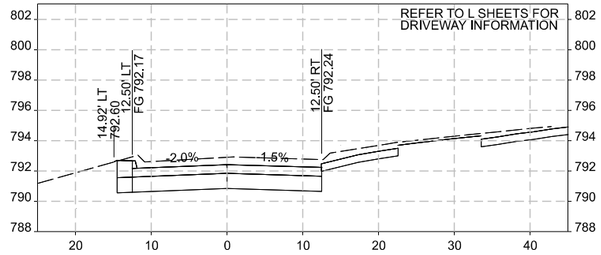
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STA 124+25.00



STA 123+00.00



STA 124+00.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | Scale: 1"= 10'
Technician: KMM | Date: 5/13/2026 | Field Bk: | Pg:

Project No: 116.0663

Sheet X.30

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - 2ND ST

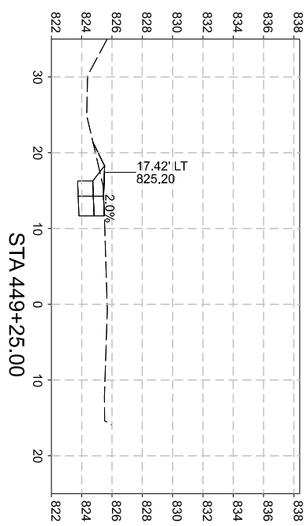
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

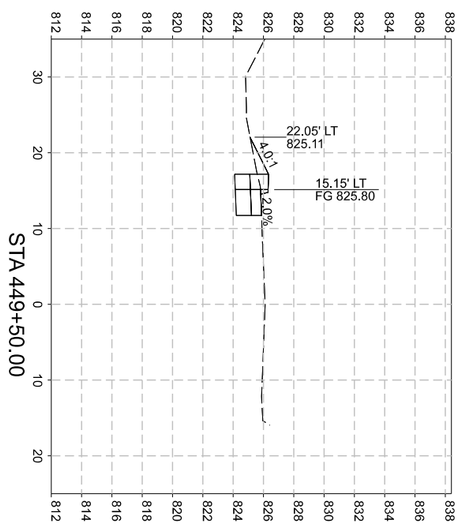
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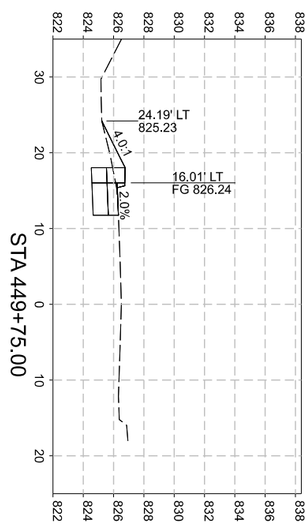
Project No: 116.0663

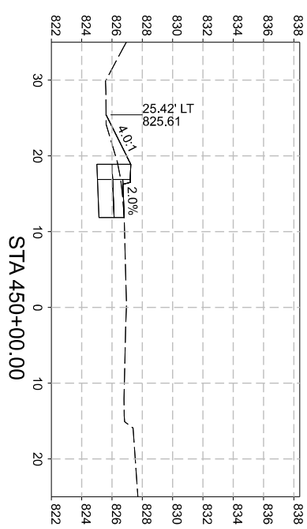
Sheet X.30

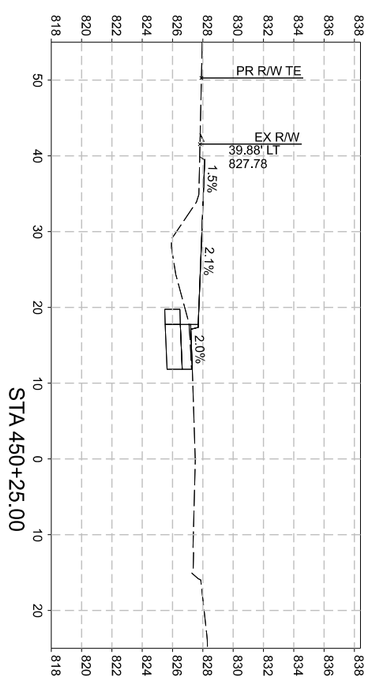
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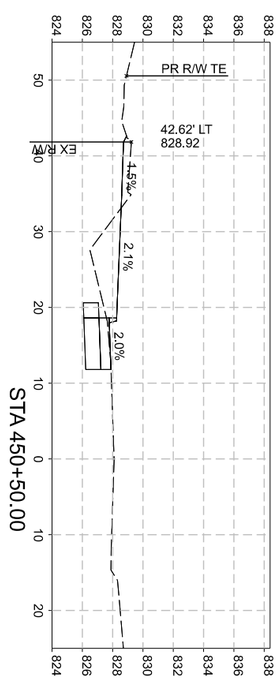


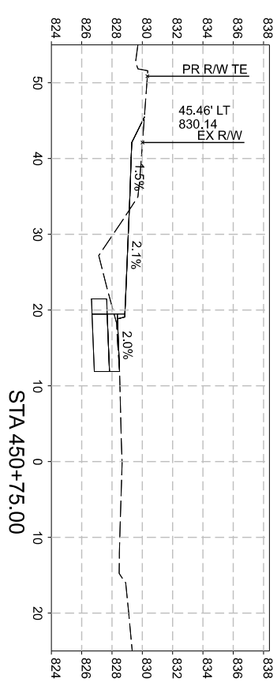


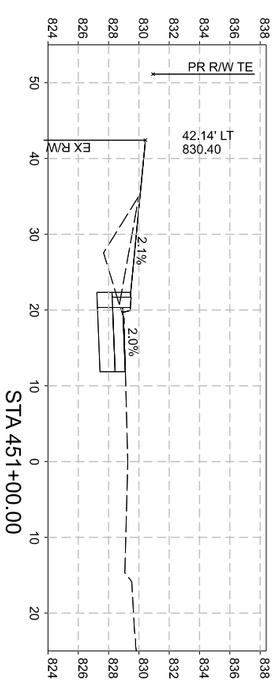


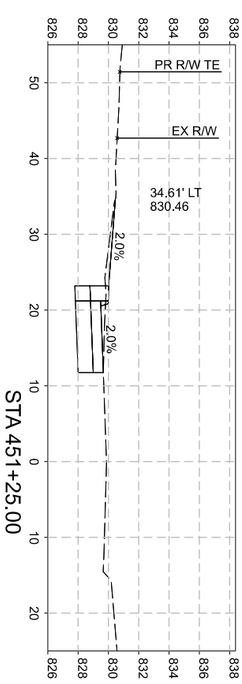


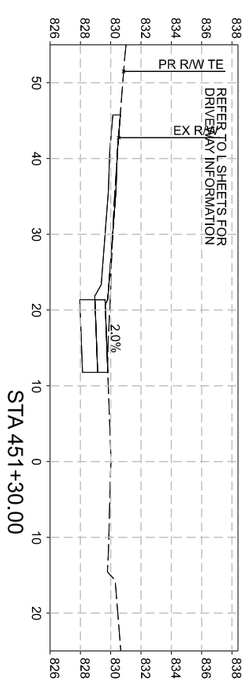












SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - BOYSON RD

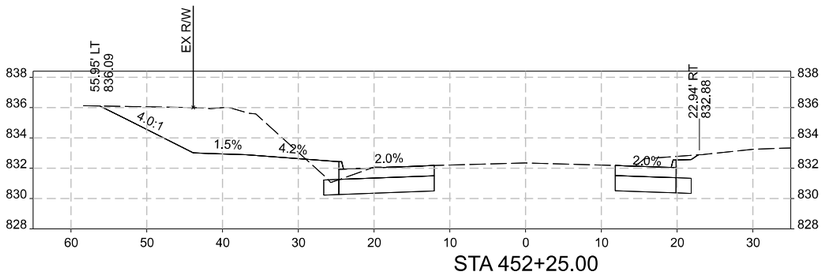
CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.

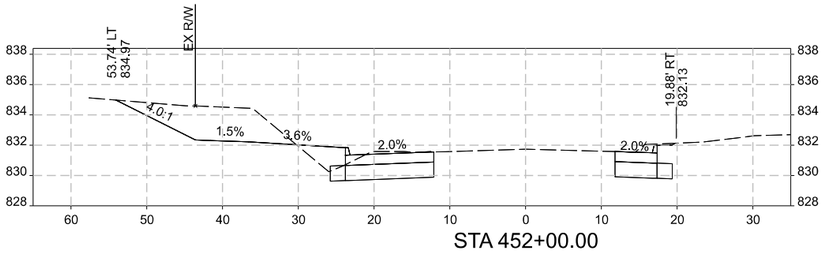
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS			05/13/26
MARK	REVISION		DATE	BY
Engineer: MGB	Checked By: DMS		10'
Technician: KMM	Date: 5/13/2026		T-R-S:
Project No: 116.0663		Sheet	X.40

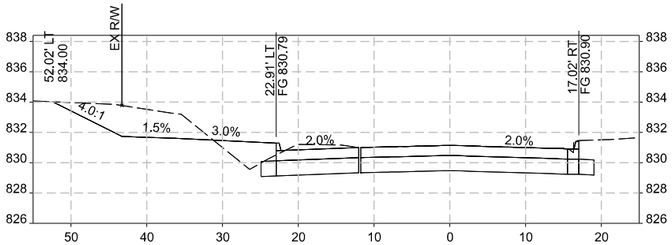
Sheet X.40
Project No: 116.0663



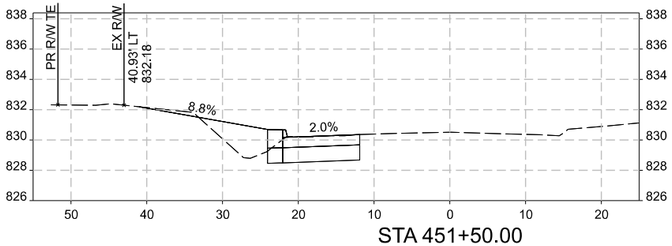
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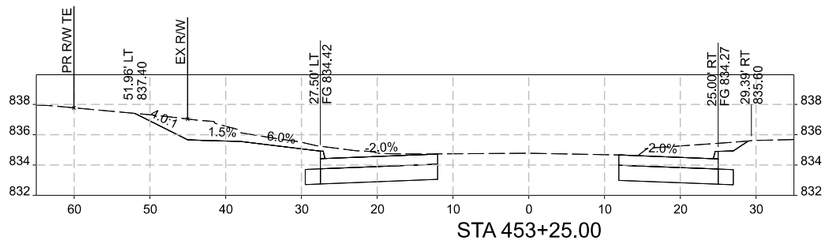
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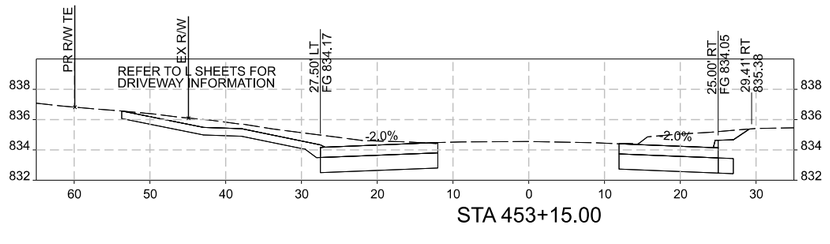
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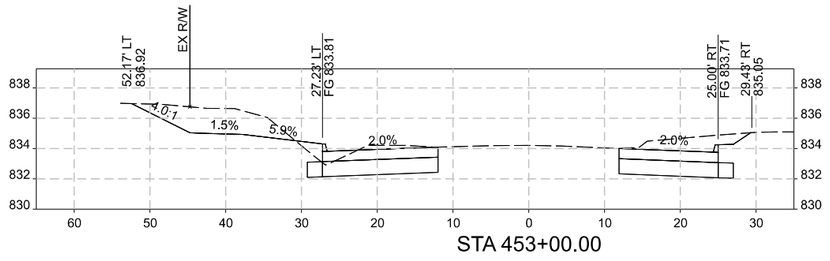
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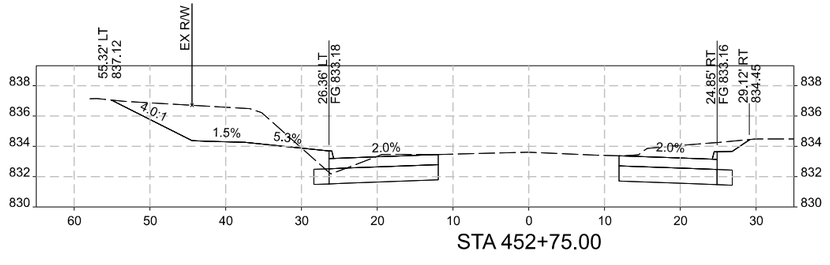
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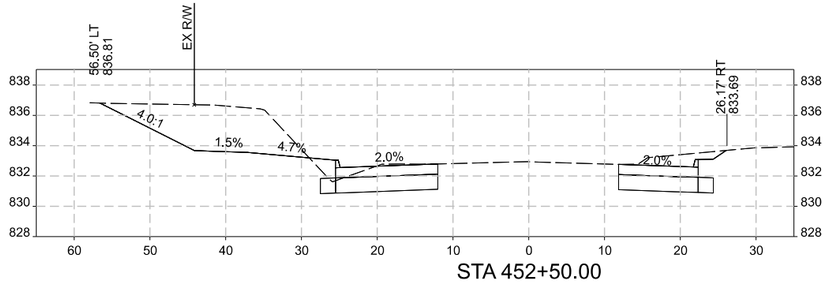
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STA 453+00.00



STA 452+75.00



STA 452+50.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | 10'

Technician: KMM | Date: 5/13/2026 | T-R-S:

Project No: 116.0663 | Sheet X.41

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - BOYSON RD

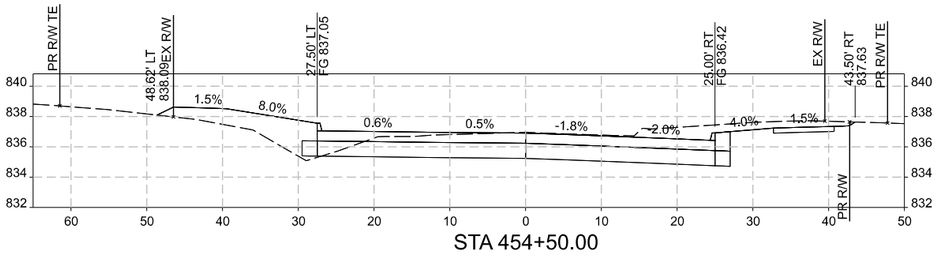
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

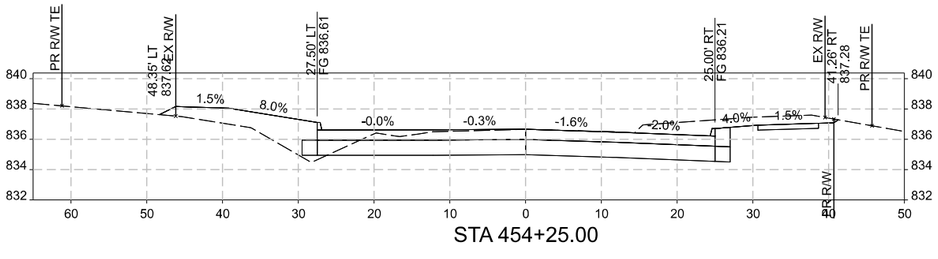
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Sheet X.41

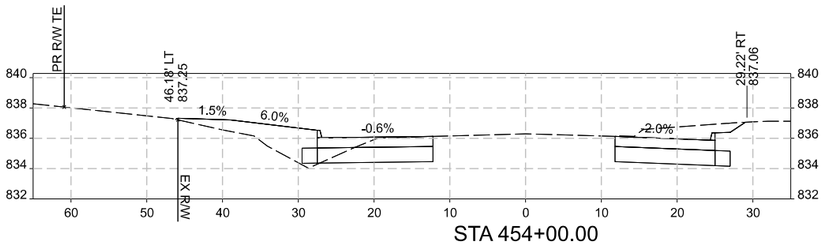
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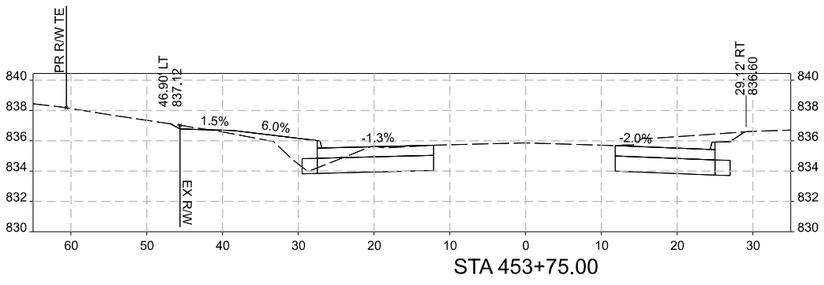
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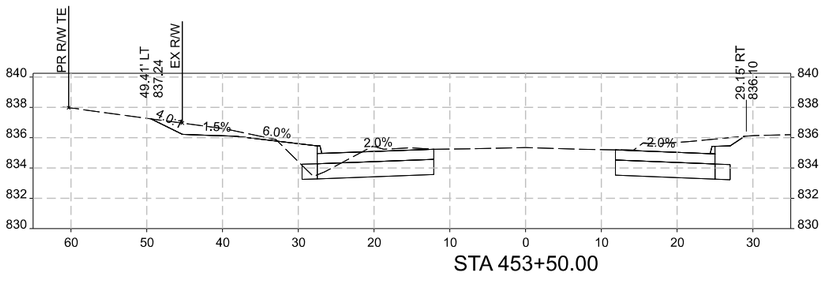
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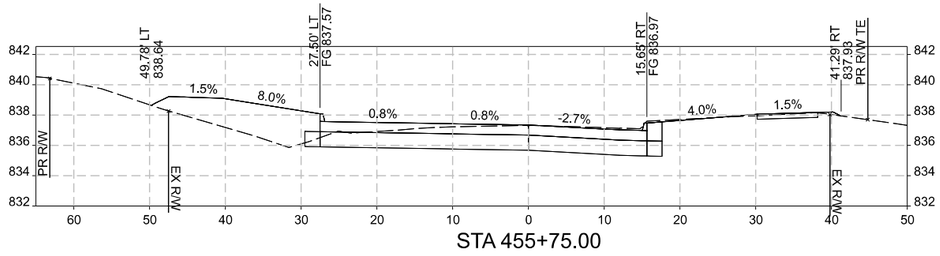
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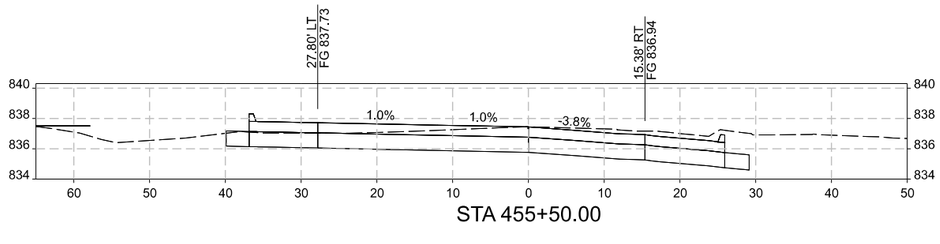
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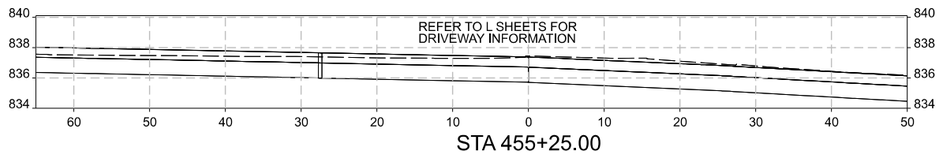
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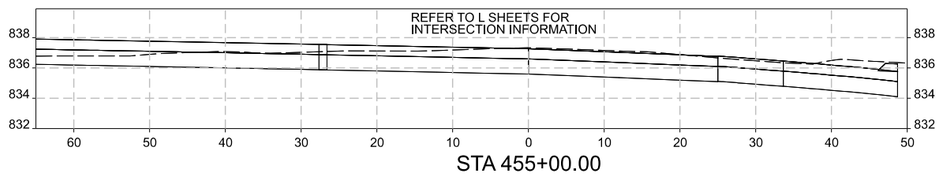
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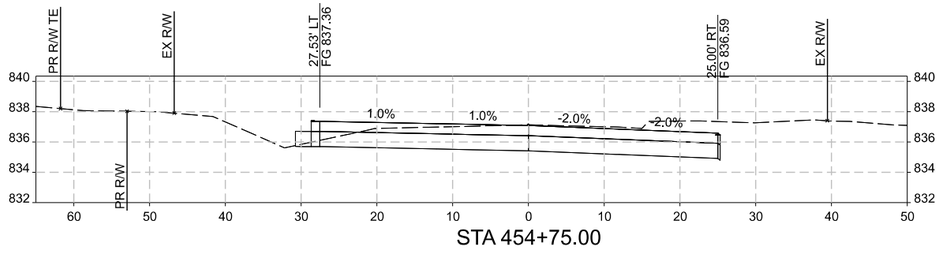
STA 455+50.00



STA 455+25.00



STA 455+00.00



STA 454+75.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S: 10'

Technician: KMM Date: 5/13/2026

Project No: 116.0663

Sheet X.42

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - BOYSON RD

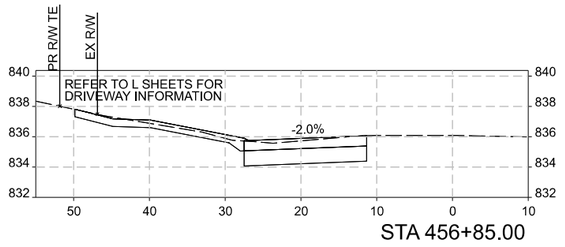
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

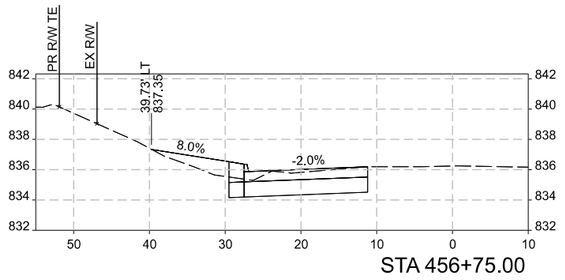
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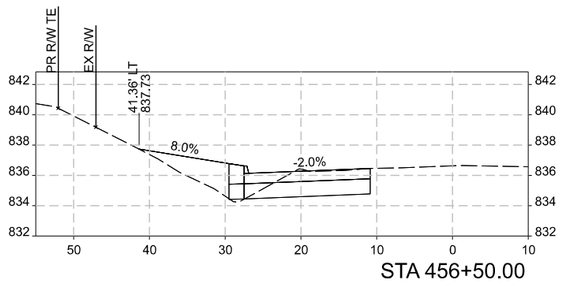
Project No: 116.0663

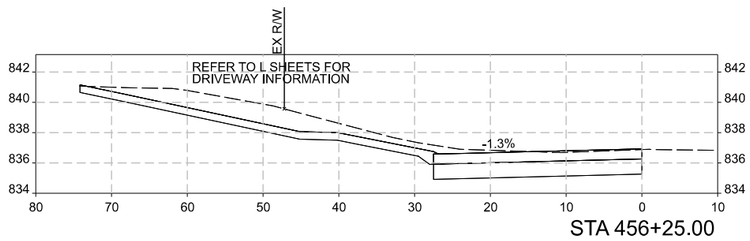
Sheet X.42

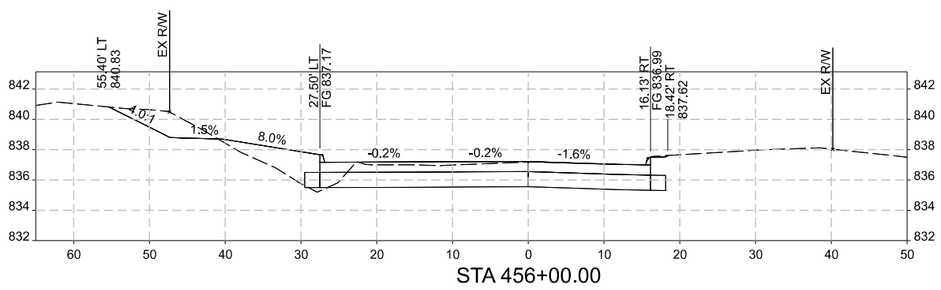
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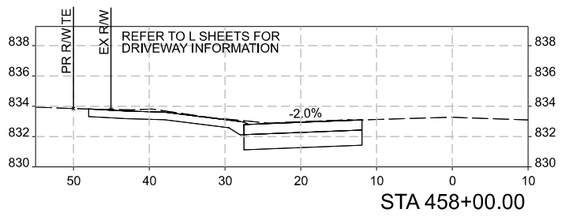


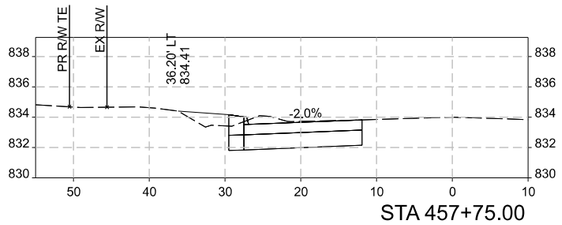


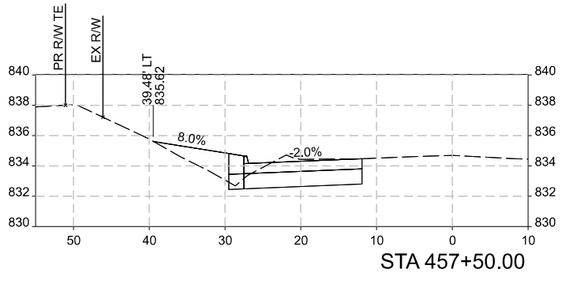


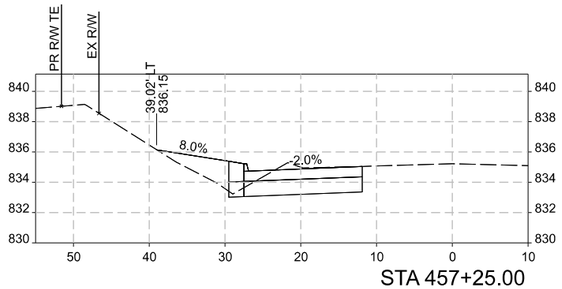


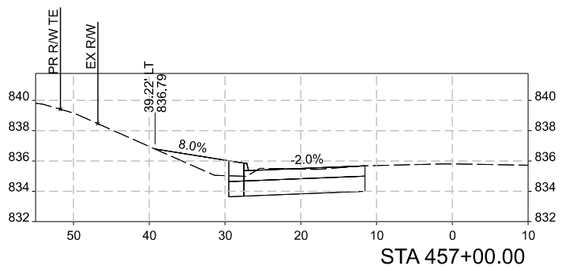


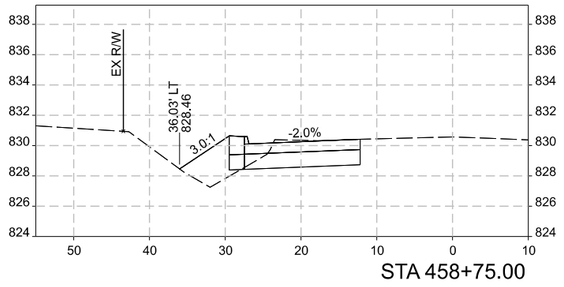


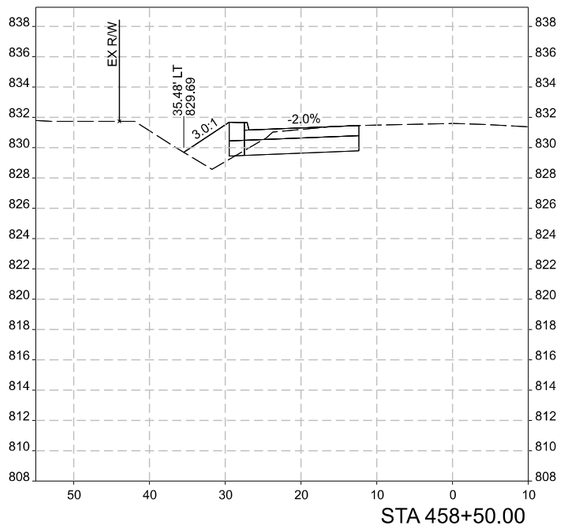


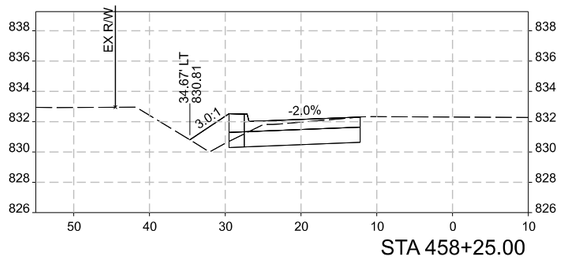












DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | 10'
Technician: KMM | Date: 5/13/2026 | T-R-S:

Project No: 116.0663 | Sheet X.43

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

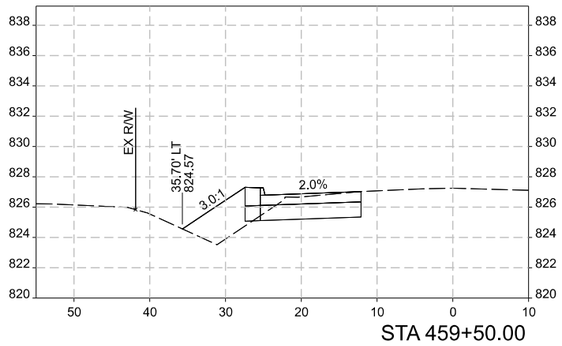
CROSS SECTIONS - BOYSON RD

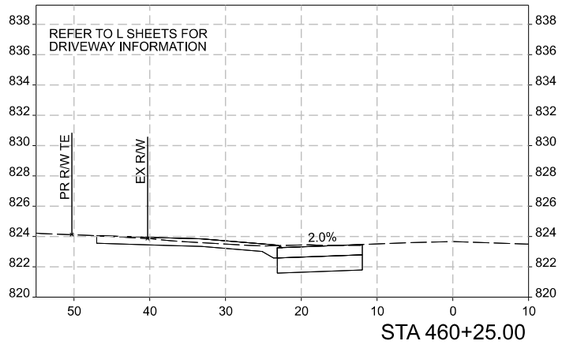
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

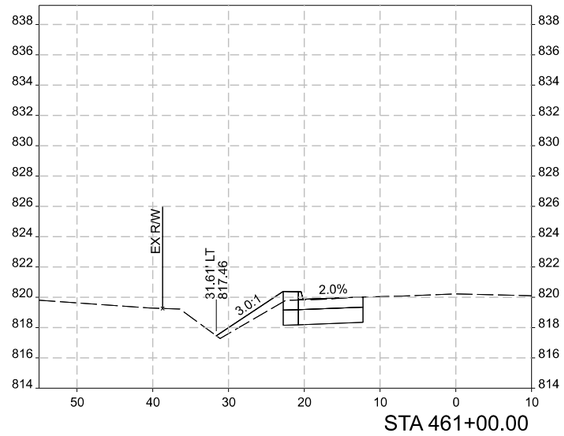
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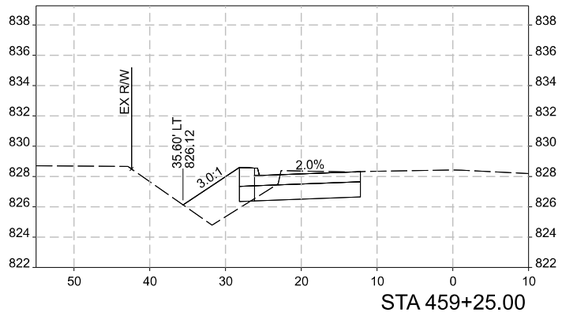
Project No: 116.0663
Sheet X.43

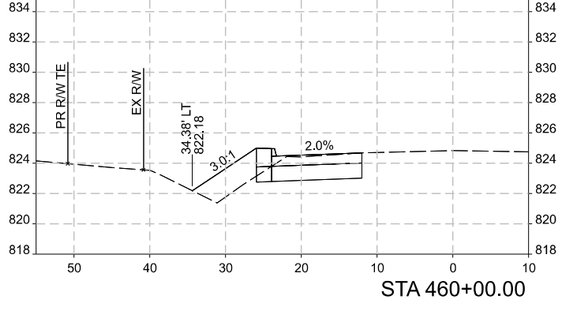
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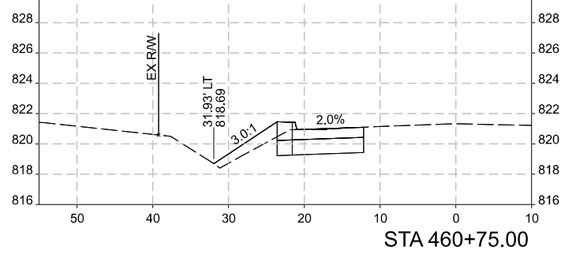


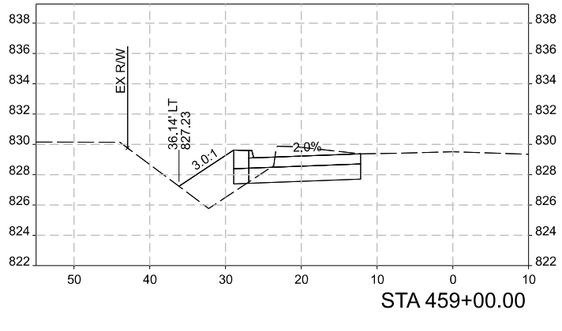


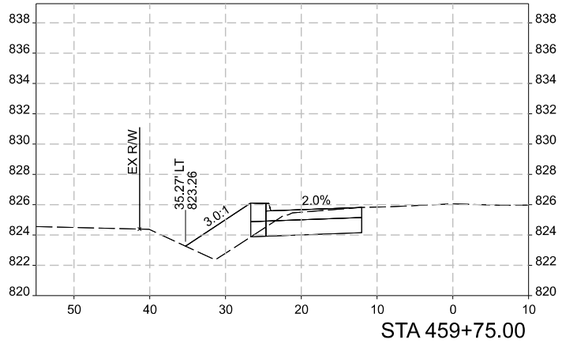


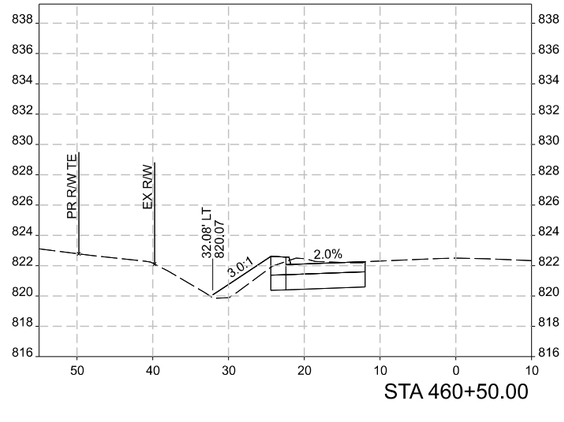












DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | 10'
Technician: KMM | Date: 5/13/2026 | T-R-S:

Project No: 116.0663 | Sheet X.44

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - BOYSON RD

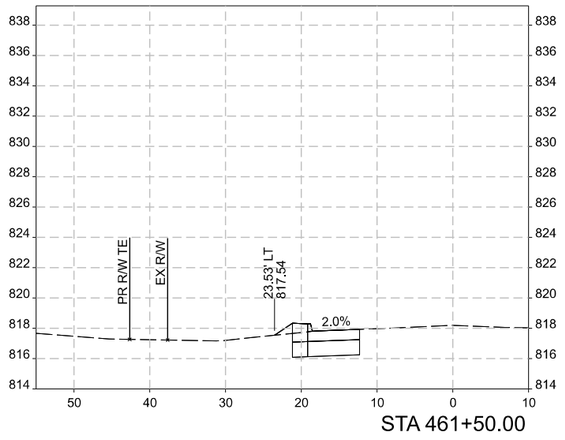
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

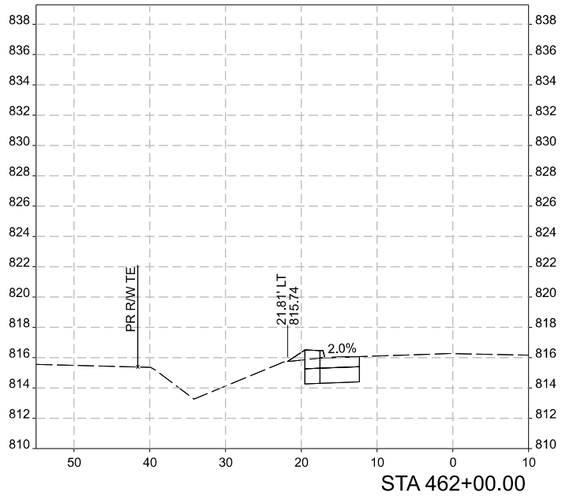
SNYDER & ASSOCIATES

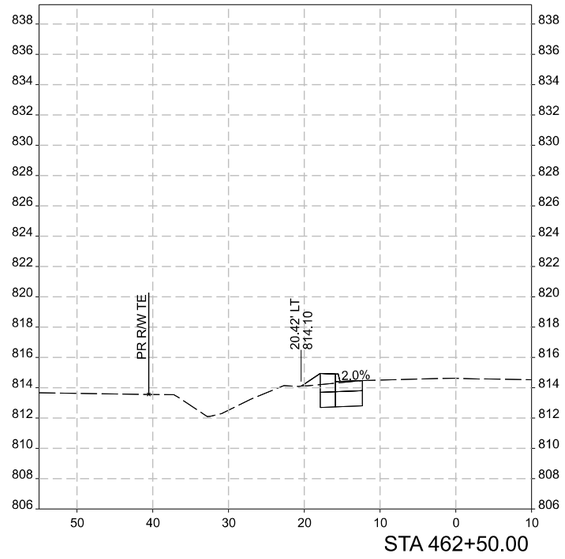
Project No: 116.0663

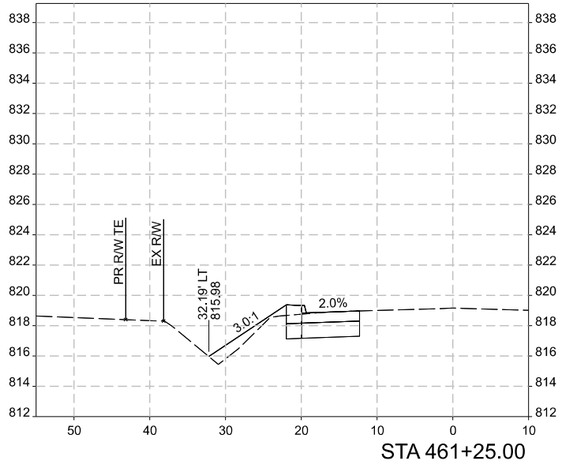
Sheet X.44

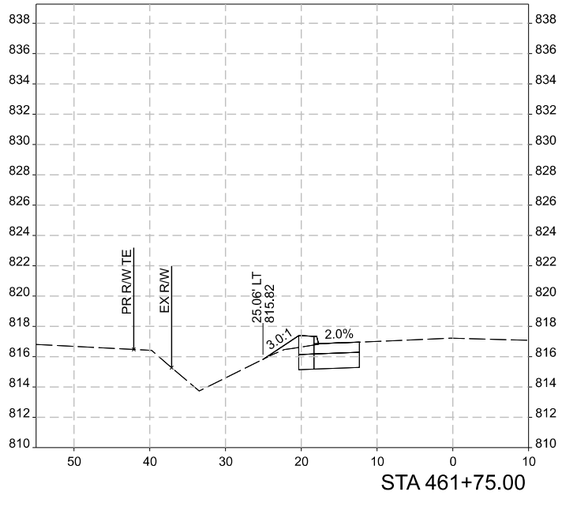
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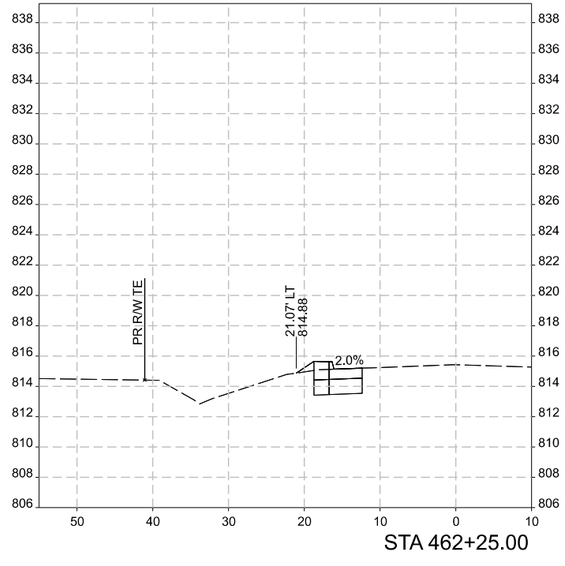












DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB | Checked By: DMS | 10'

Technician: KMM | Date: 5/13/2026 | T-R-S:

Project No: 116.0663 | Sheet X.45

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

CROSS SECTIONS - BOYSON RD

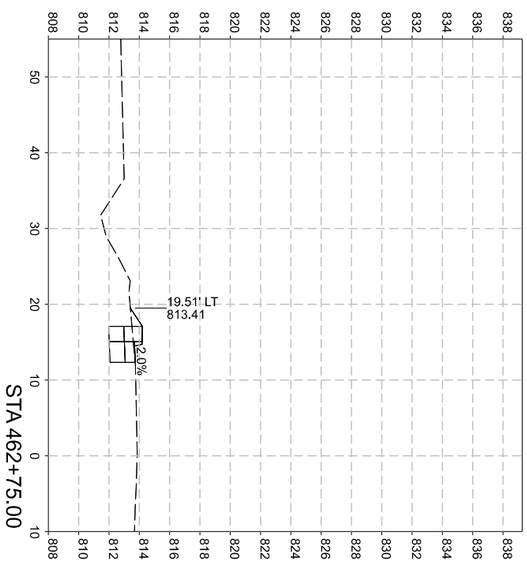
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 116.0663

Sheet X.45

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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

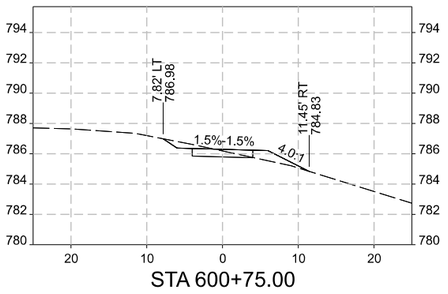
CROSS SECTIONS - BOYSON RD

CITY OF MARION, IOWA

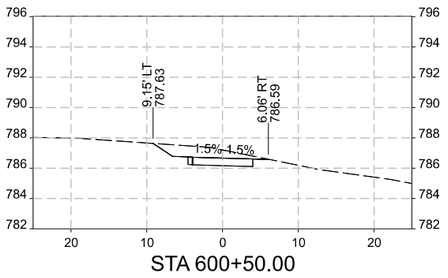
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS	10'	
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet X.46		

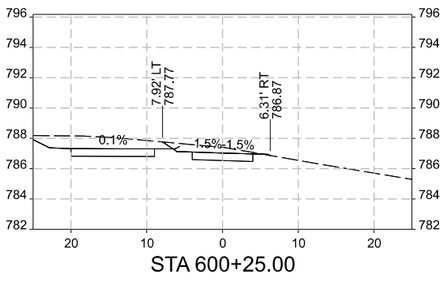
Sheet X.46
Project No: 116.0663



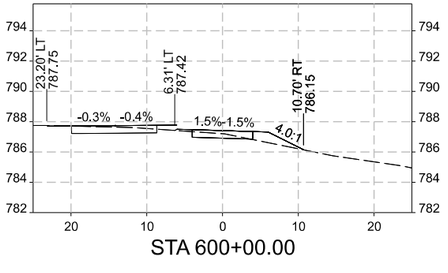
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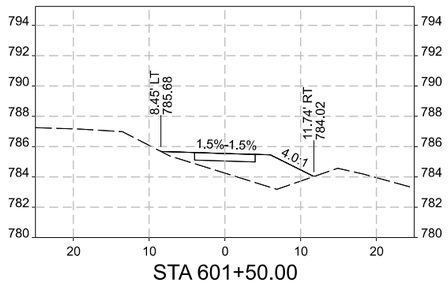
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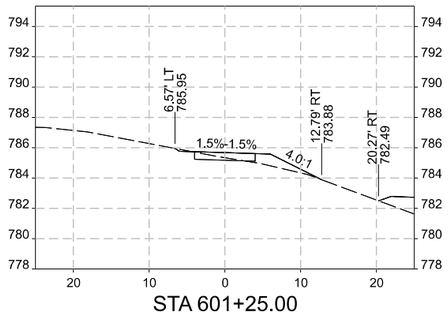
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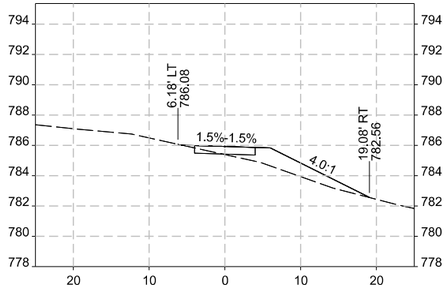
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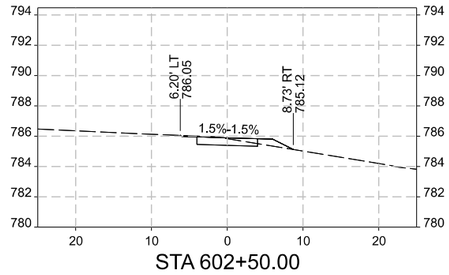
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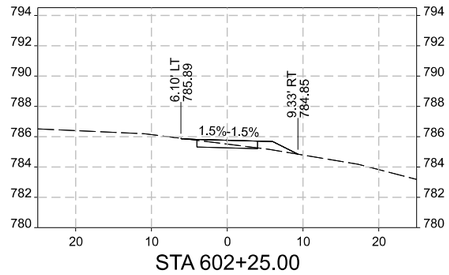
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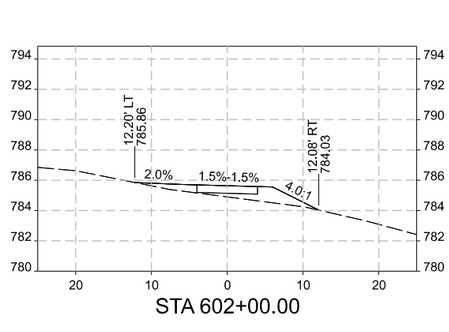
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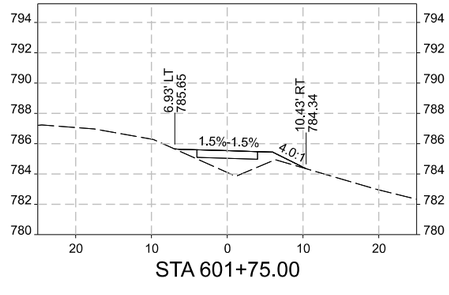
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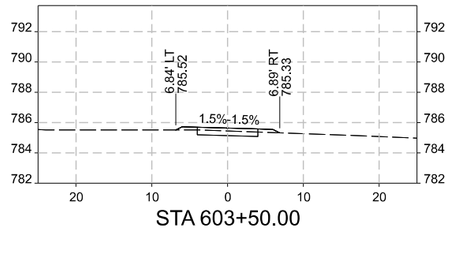
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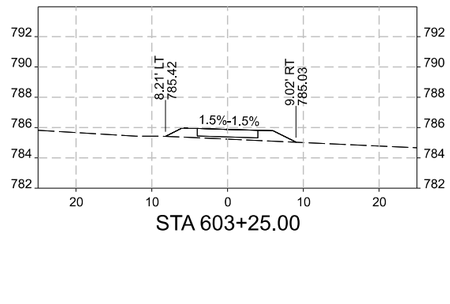
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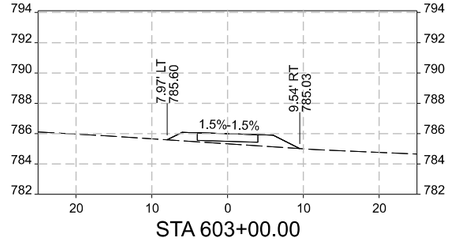
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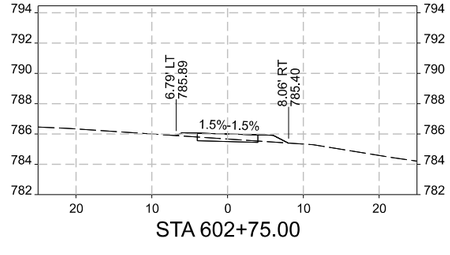
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STA 603+25.00



STA 603+00.00



STA 602+75.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet X.50

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL CROSS SECTIONS

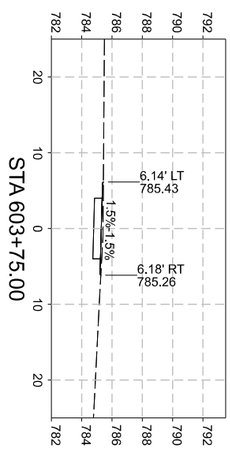
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

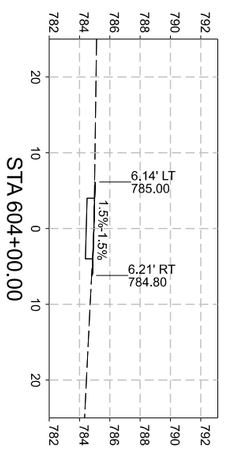
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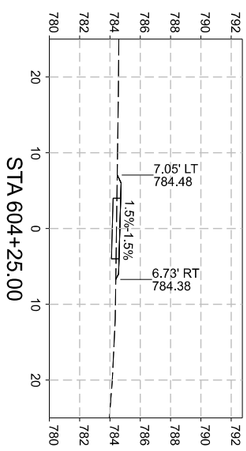
Project No: 116.0663

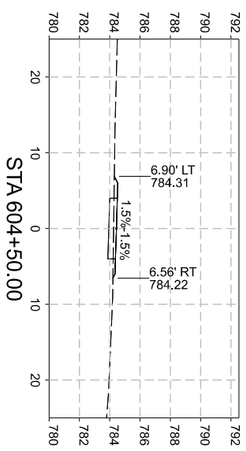
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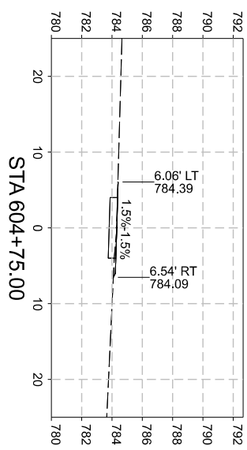
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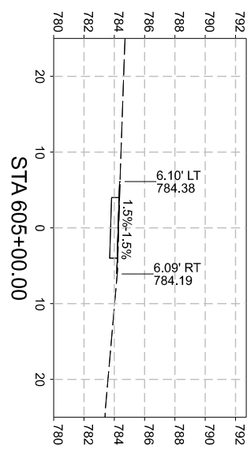


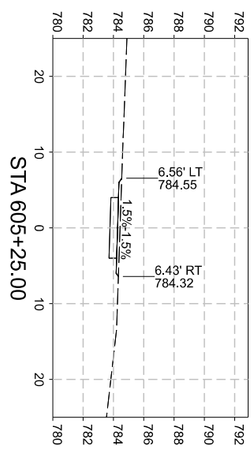


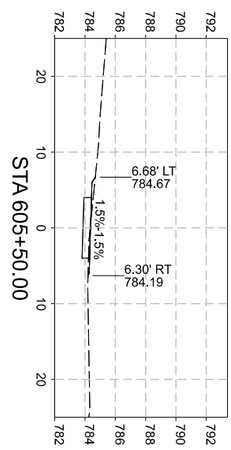


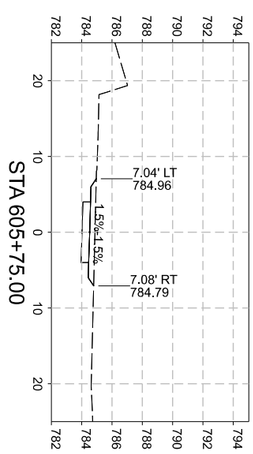


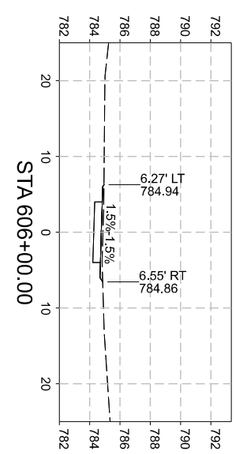


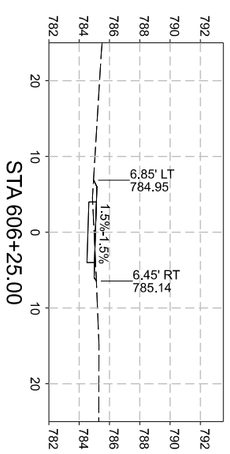


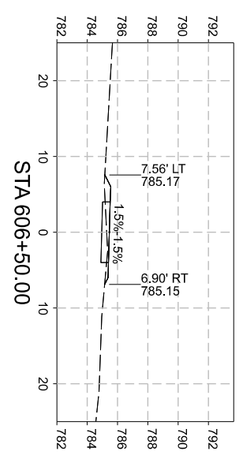


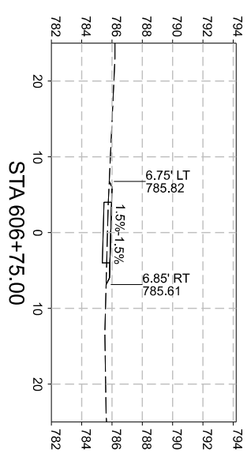


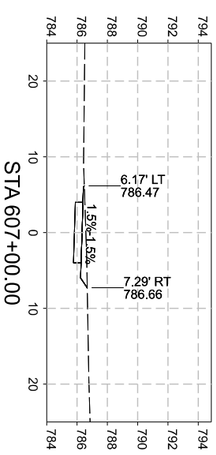


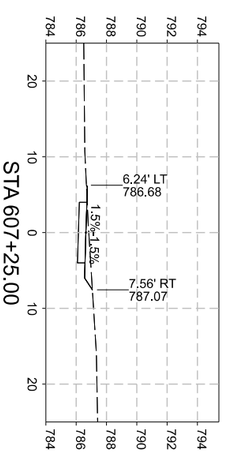


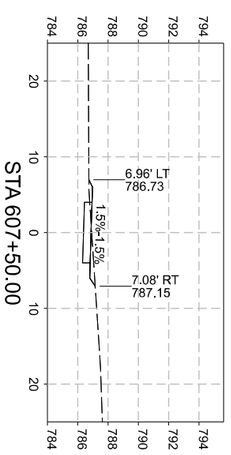












ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL CROSS SECTIONS

CITY OF MARION, IOWA

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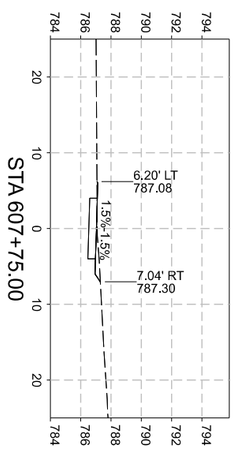
SNYDER & ASSOCIATES, INC.

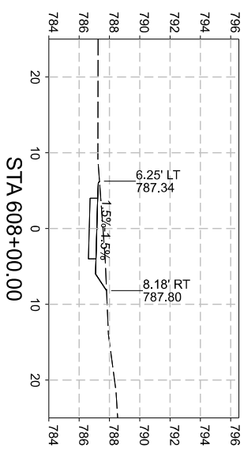
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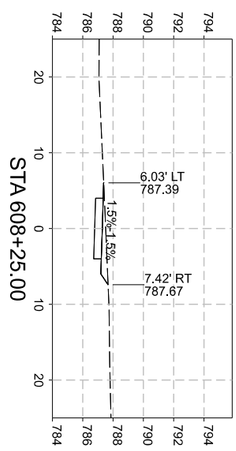
DOT PROJECT NUMBER: HDP-4775(646)--71-57	
FINAL PLANS	05/13/26
MARK REVISION	DATE BY
Engineer: MGB	Checked By: DMS
Technician: KMM	Date: 5/13/2026 T-R-S:
Project No: 116.0663	Sheet X.51

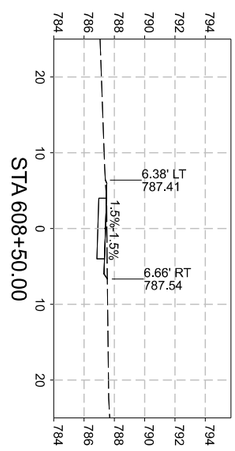
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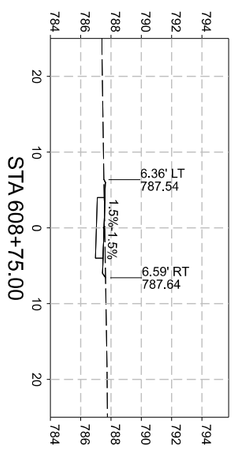
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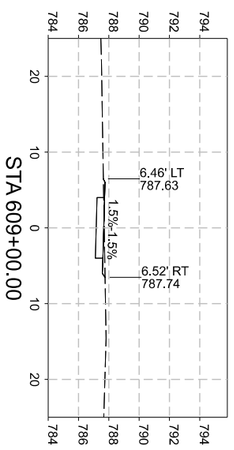


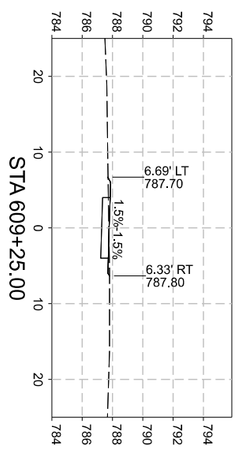


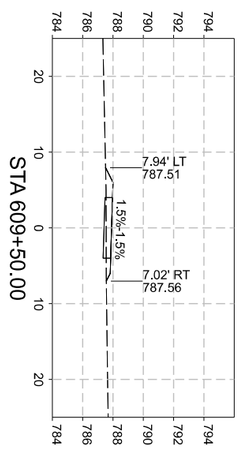


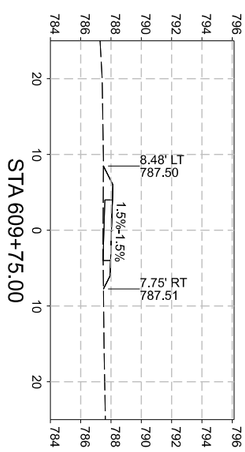


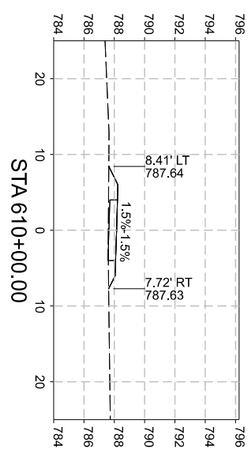


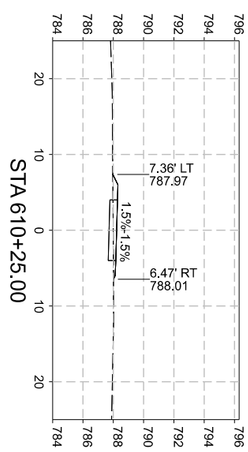


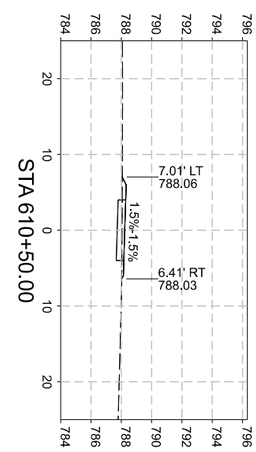


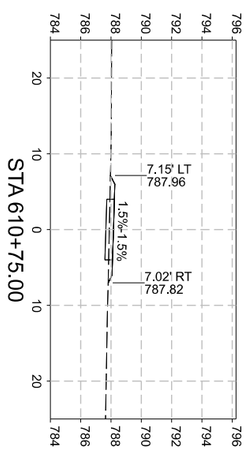


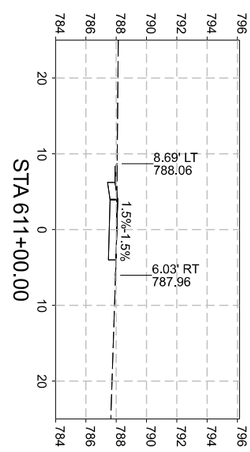


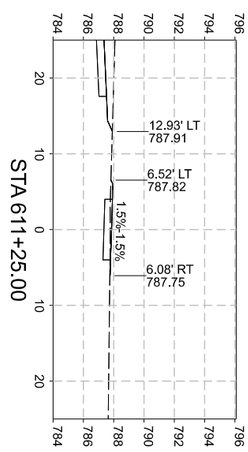


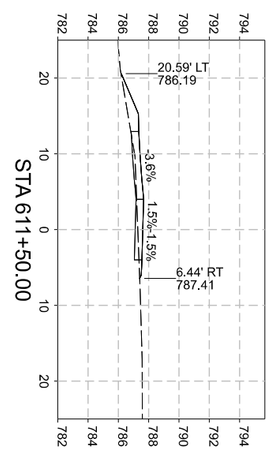












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ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL CROSS SECTIONS

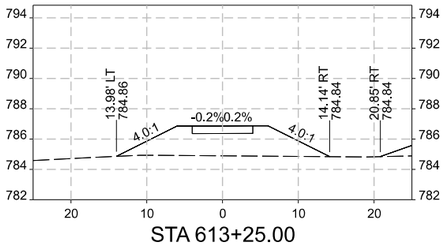
CITY OF MARION, IOWA

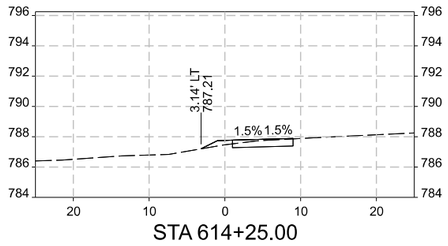
SNYDER & ASSOCIATES, INC.

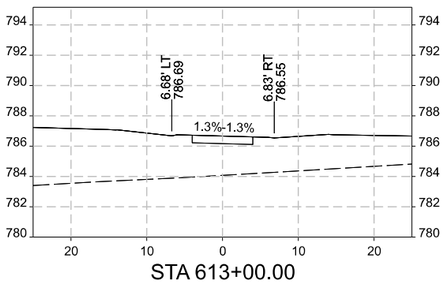
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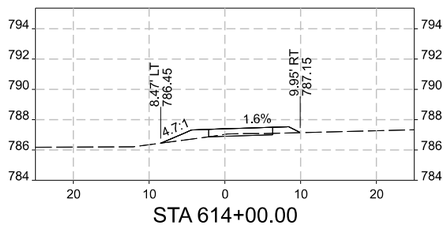
DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet X.52		

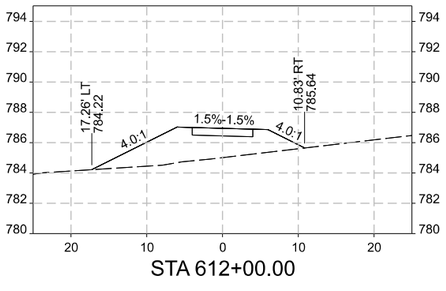
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Project No: 116.0663

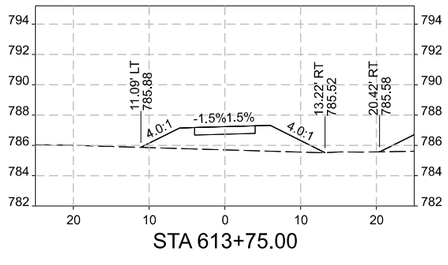

13.98' LT
784.86
4.0:1
-0.2%0.2%
4.0:1
14.14' RT
784.84
20.85' RT
784.84
STA 613+25.00

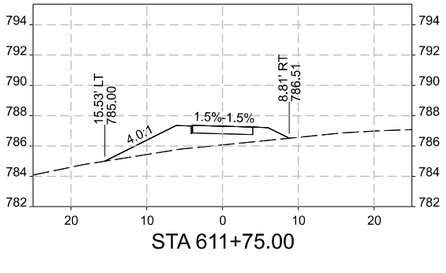

3.14' LT
787.21
1.5%1.5%
STA 614+25.00

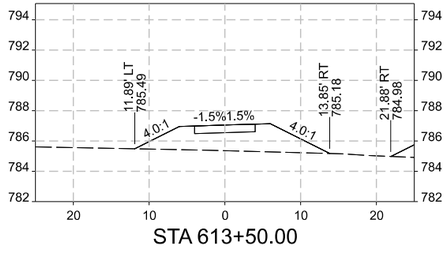

6.68' LT
786.69
6.83' RT
786.55
1.3%-1.3%
STA 613+00.00

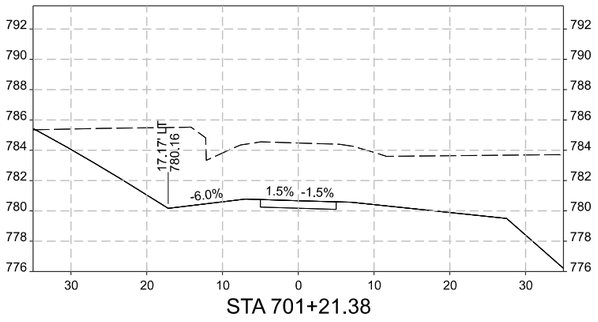

8.47' LT
786.45
4.1:1
1.6%
9.95' RT
787.15
STA 614+00.00


17.26' LT
784.22
4.0:1
1.5%-1.5%
4.0:1
10.83' RT
785.64
STA 612+00.00


11.09' LT
785.88
4.0:1
-1.5%1.5%
4.0:1
13.22' RT
785.52
20.42' RT
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STA 613+75.00


15.53' LT
785.00
4.0:1
1.5%-1.5%
8.81' RT
786.51
STA 611+75.00

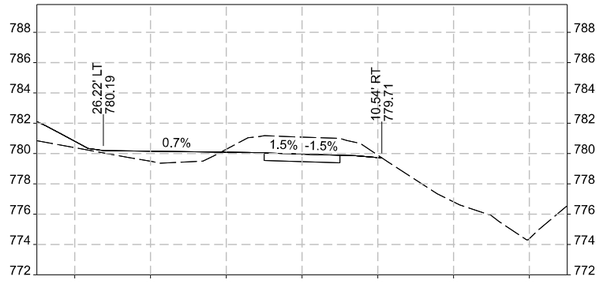

11.89' LT
785.49
4.0:1
-1.5%1.5%
4.0:1
13.85' RT
785.18
21.86' RT
784.98
STA 613+50.00



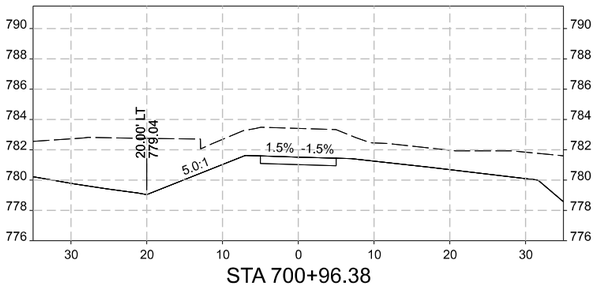
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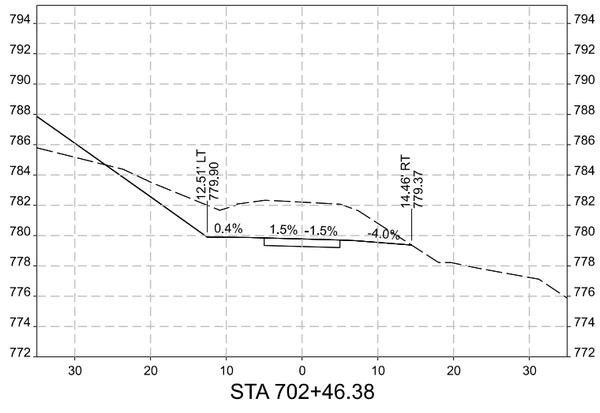
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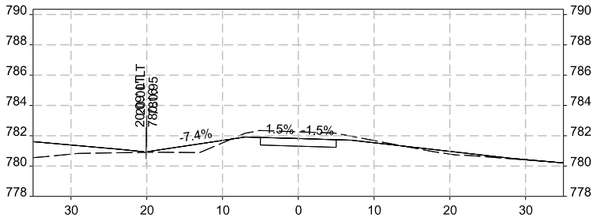
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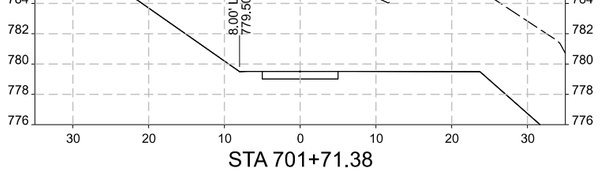
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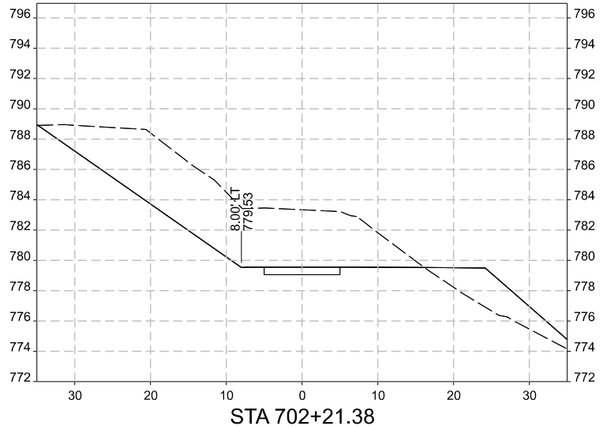
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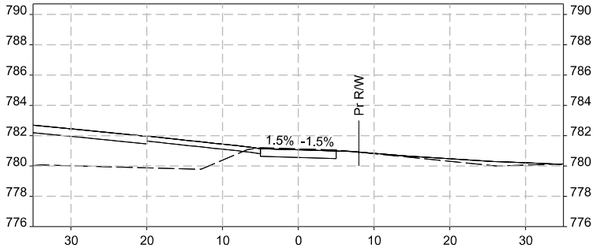
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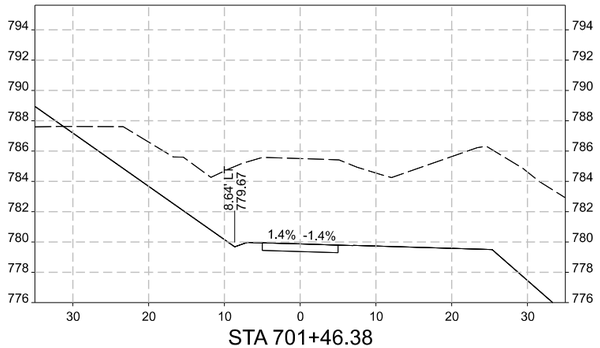
STA 701+71.38



STA 702+21.38



STA 700+46.38



STA 701+46.38

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet X.54

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL CROSS SECTIONS

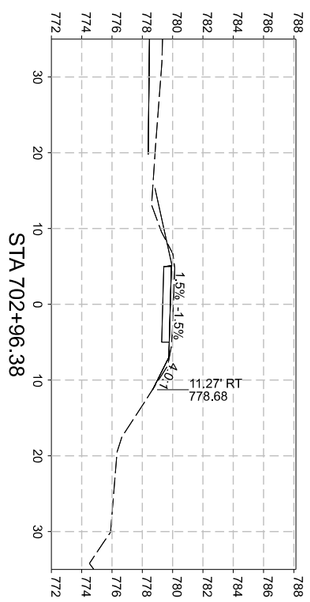
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

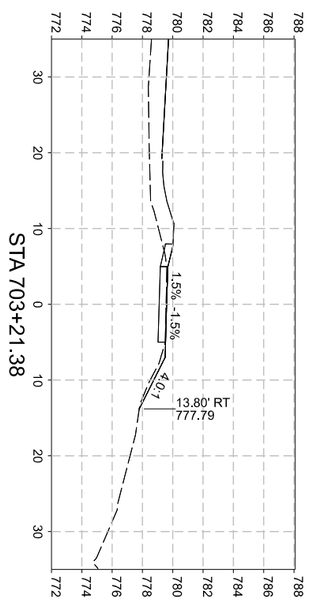
SNYDER & ASSOCIATES

Project No: 116.0663

Sheet X.54

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Sheet X.55 | Project No: 116.0663

SNYDER & ASSOCIATES

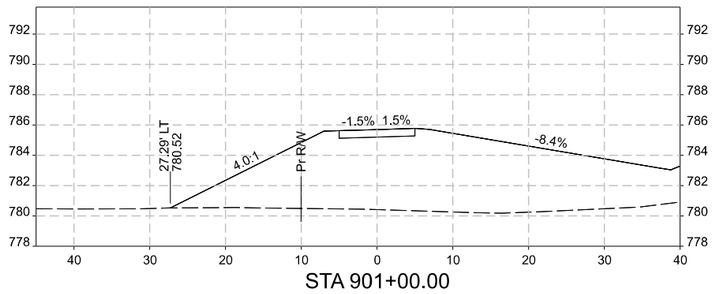
ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL CROSS SECTIONS

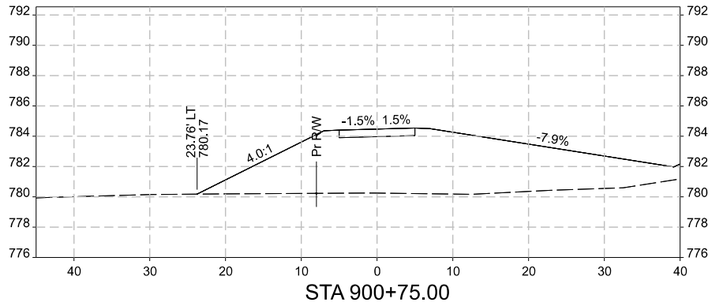
CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

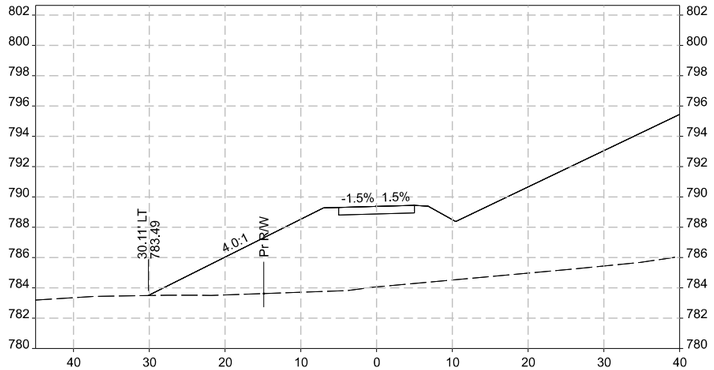
DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet X.55		



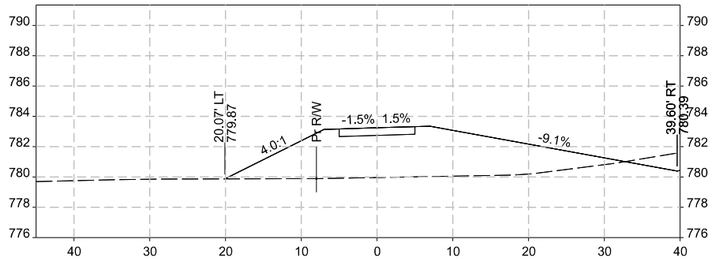
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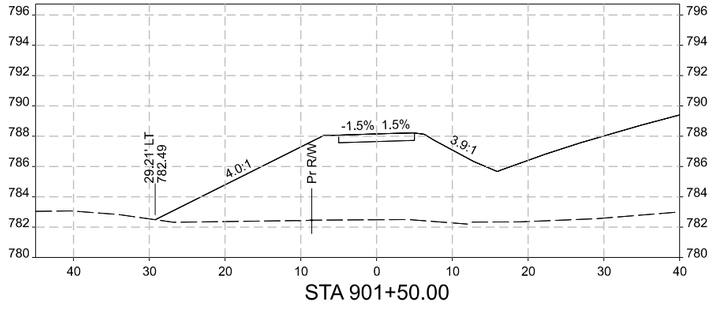
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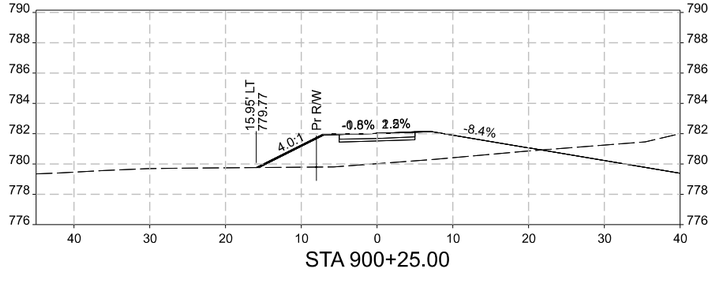
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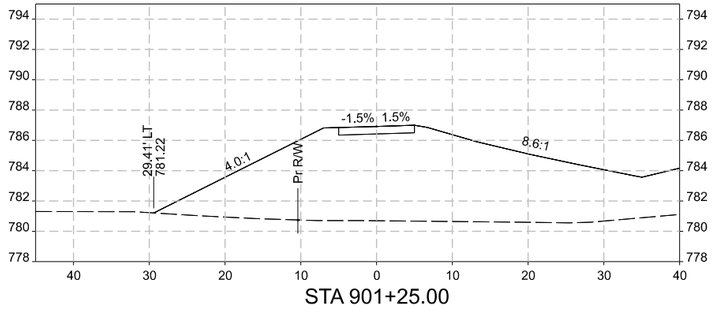
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STA 901+50.00



STA 900+25.00



STA 901+25.00

DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet X.56

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL CROSS SECTIONS

SNYDER & ASSOCIATES, INC.

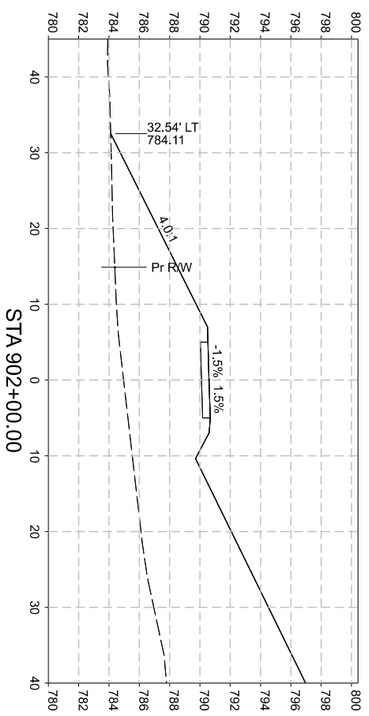
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

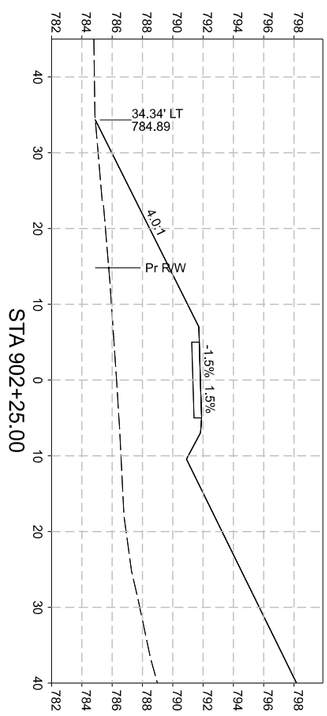
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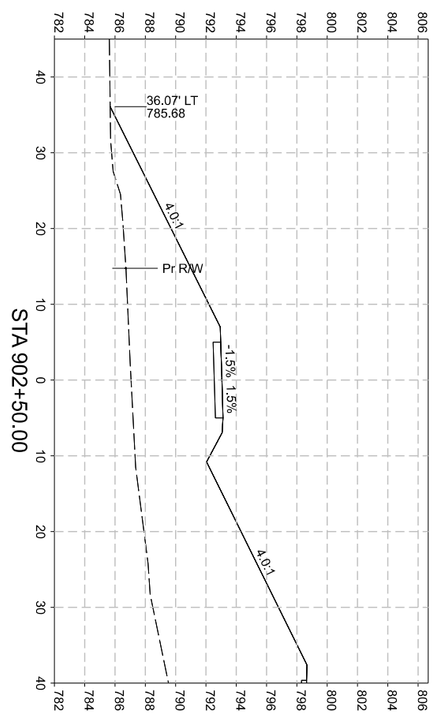
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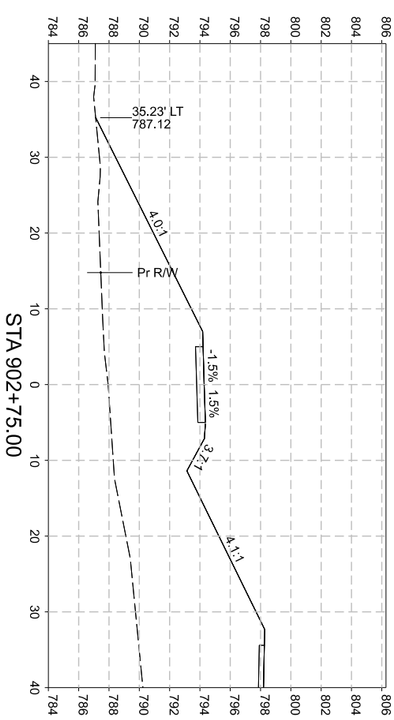
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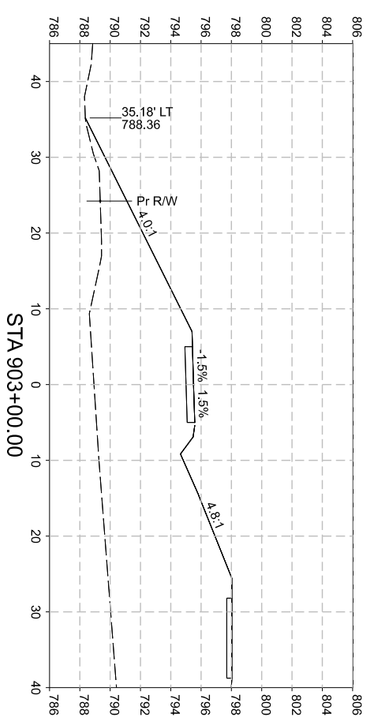
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Sheet X.57 | Project No: 116.0663

SNYDER & ASSOCIATES

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

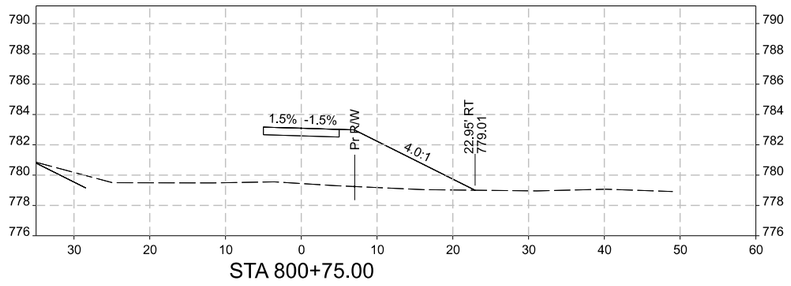
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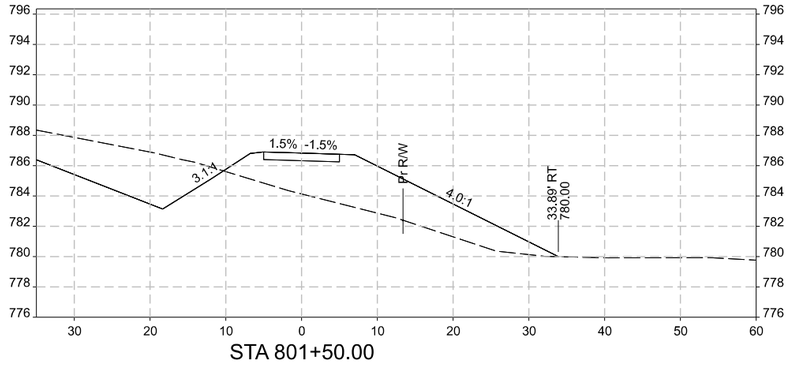
CITY OF MARION, IOWA

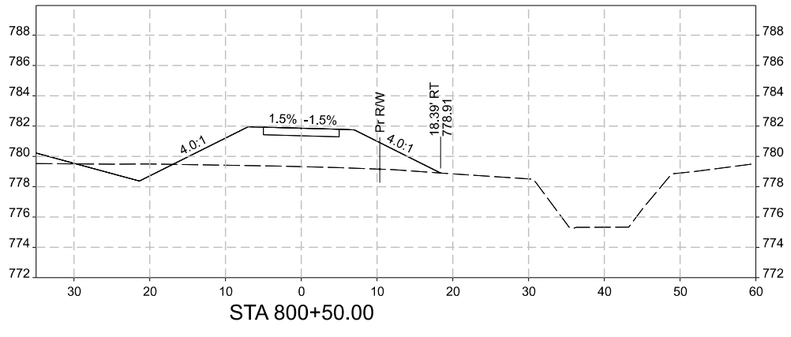
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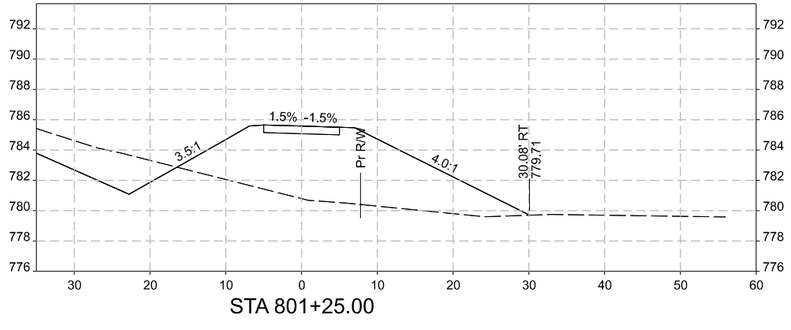
900 BELL DRIVE S.W.
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319-362-9394 | www.snyder-associates.com

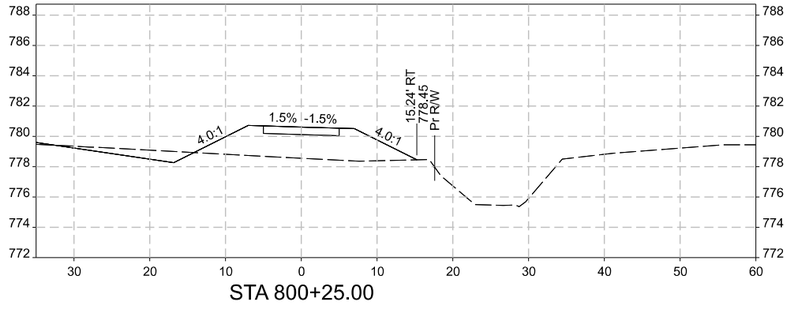
DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet X.57		

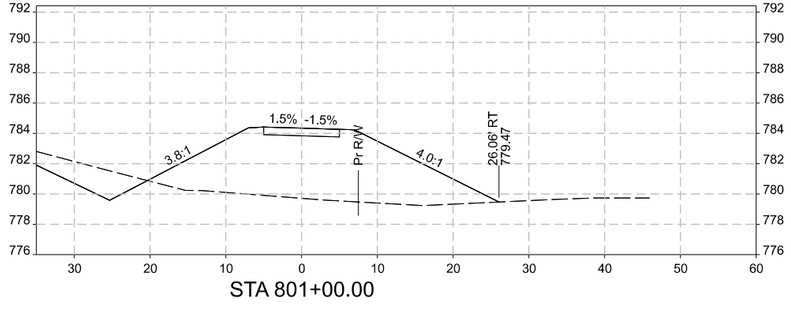












DOT PROJECT NUMBER: HDP-4775(646)--71-57

MARK	REVISION	DATE	BY
	FINAL PLANS	05/13/26	

Engineer: MGB Checked By: DMS T-R-S:

Technician: KMM Date: 5/13/2026

Project No: 116.0663 Sheet X.58

CITY OF MARION, IOWA

ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL CROSS SECTIONS

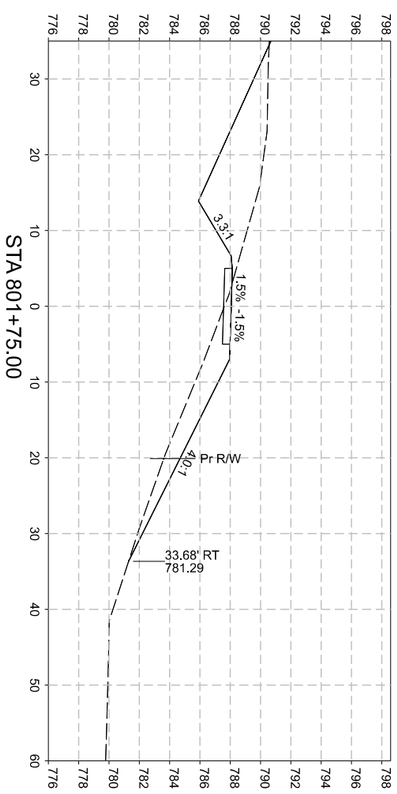
SNYDER & ASSOCIATES, INC.
900 BELL DRIVE S.W.
CEDAR RAPIDS, IA 52404
319-362-9394 | www.snyder-associates.com

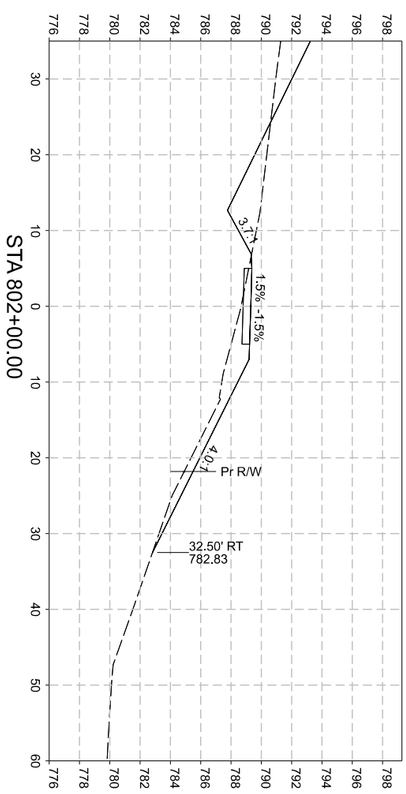
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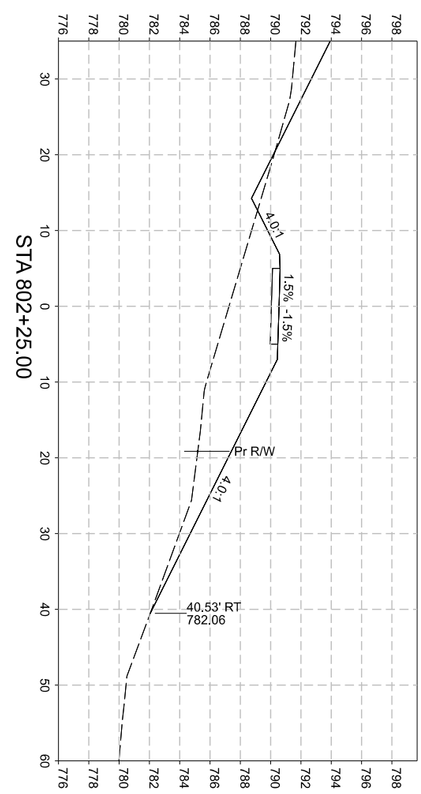
Project No: 116.0663

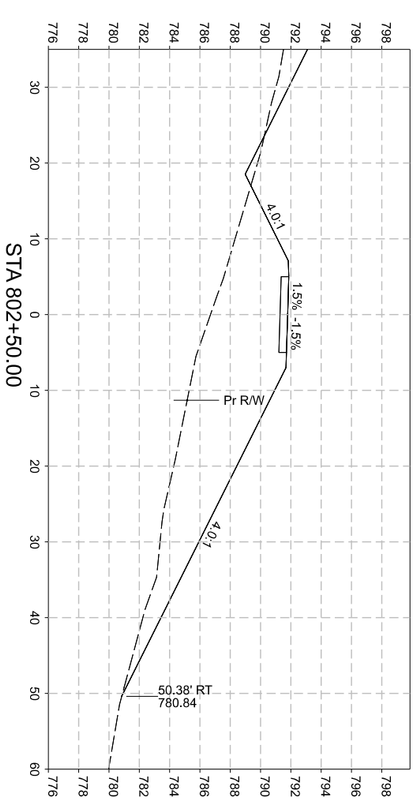
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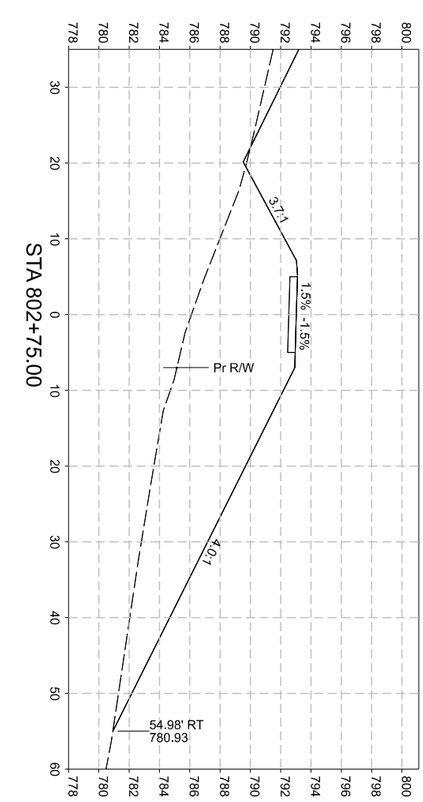
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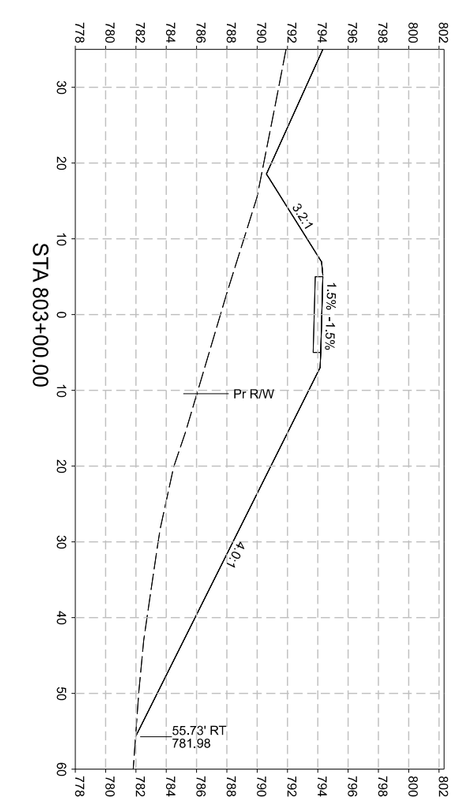












ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

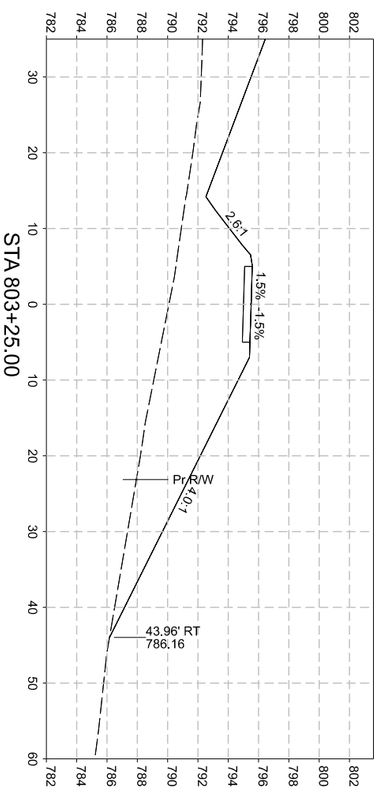
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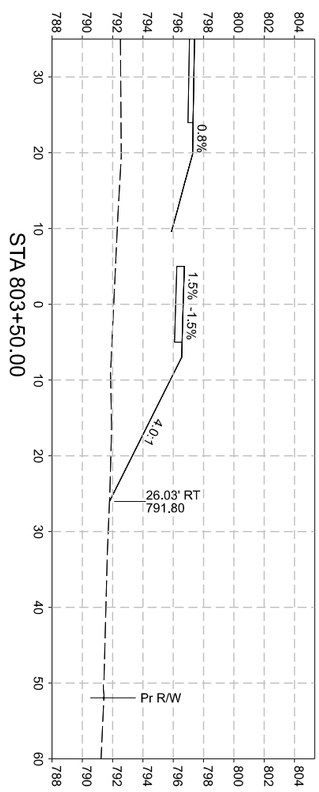
CITY OF MARION, IOWA

SNYDER & ASSOCIATES, INC.
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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
FINAL PLANS		05/13/26	
MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663	Sheet X.59		

Sheet X.59
Project No: 116.0663





ALBURNETT ROAD EXTENSION - GRADE AND PAVE, PAVEMENT REHAB, BRIDGE NEW, TRAFFIC SIGNALS

TRAIL CROSS SECTIONS

CITY OF MARION, IOWA

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DOT PROJECT NUMBER: HDP-4775(646)--71-57			
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MARK	REVISION	DATE	BY
Engineer: MGB	Checked By: DMS		
Technician: KMM	Date: 5/13/2026	T-R-S:	
Project No: 116.0663		Sheet X.60	