PCC OVERLAY
LETTING DATE: DECEMBER 15, 2026
STP-S-C092(128)--5E-92
WASHINGTON COUNTY

STANDARD ROAD PLANS
STANDARD ROAD PLANS ARE LISTED ON SHEET C.01

IOWA | DOT
Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE
FARM-TO-MARKET SYSTEM

WASHINGTON COUNTY

PROJECT NO. STP-S-C092(128)--5E-92

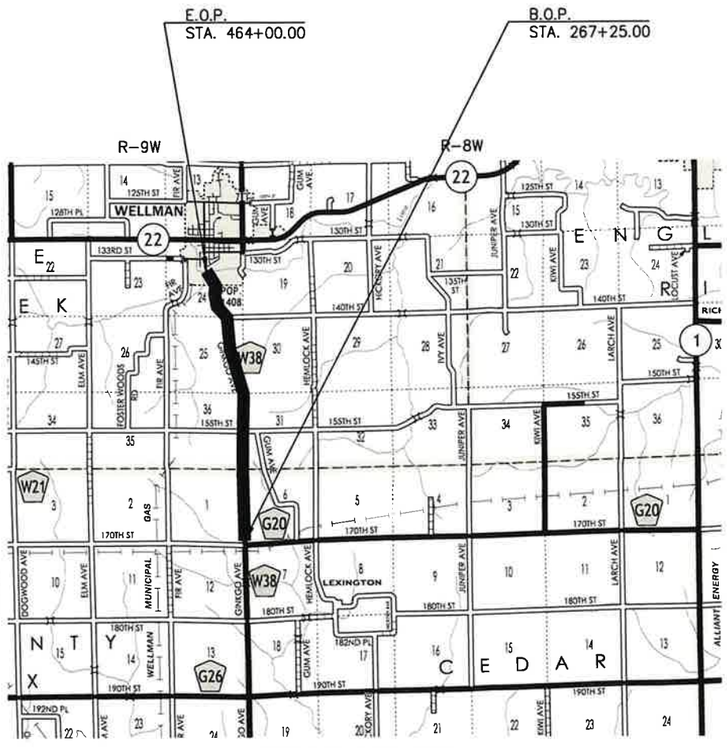
PCC OVERLAY

ON GINKGO AVE, FROM 170TH STREET NORTH TO WELLMAN

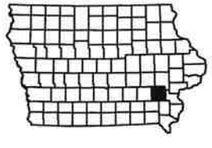
REFER TO THE PROPOSAL FORM FOR THE LIST OF APPLICABLE SPECIFICATIONS

TOTAL SHEETS 22

INDEX OF SHEETS (105-3, 10-18-05)	
NO.	DESCRIPTION
A.01	TITLE SHEET
B.01	TYPICAL SECTIONS
B.02	ROAD DETAILS
C.01	BID ITEMS, BID ITEM NOTES
C.02	TABULATIONS
D.01-14	PLAN AND PROFILE - MAINLINE
G.01	SURVEY MONUMENTS
L.01-L.02	INTERSECTION DETAILS



PROJECT LOCATION



0 1 2 MI

920 V.P.D. (2022)

MILEAGE SUMMARY (105-1, 09-27-94)

DIV.	LOCATION	LIN, FT.	MILES
1	GINKGO AVE (W-38)		
	STA. 267+25.00 TO 464+00.00	19,675.00	3.726
	TOTAL	19,675.00	3.726

UTILITY CONTACTS

COMPANY	UTILITY	CONTACT	PHONE NUMBER
ALLIANT ENERGY	ELECTRIC	MIKE ADRIAN	319-551-5455
AUREON NETWORK SERVICES	COMMUNICATION	JEFF KLOKO	515-830-0445
ITC TRANSMISSION	ELECTRIC	CHAD LEVI	319-899-9969
MEDIACOM	COMMUNICATION	CARL NORTON	319-594-6201
WAPELLO RURAL WATER	WATER	PHIL BECHERT	641-682-8351
WELLMAN COOP TELEPHONE ASSOCIATION	COMMUNICATION	DION SCHMINKE	319-646-6075
WINDSTREAM	COMMUNICATION	JEREMY MARSHALL	319-385-5004
WELLMAN MUNICIPAL UTILITIES	WATER	TIM GARRETT	319-330-1354

IOWA ONE CALL
800 / 292-8989
TOLL FREE
CALL - BEFORE - YOU - DIG

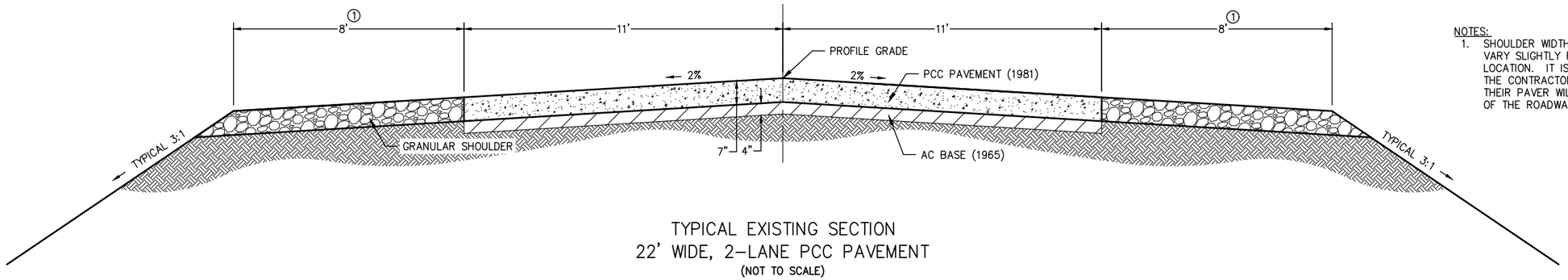
APPROVED
WASHINGTON COUNTY ENGINEER — DATE 8/20/26

MARCUS FEBLER
ROBERT L. SLODER
STAN STOOPS
JACK SEWARD
RICHARD YOUNG (CHAIRPERSON)
BOARD OF SUPERVISORS — DATE

LICENSED PROFESSIONAL ENGINEER
DAVID R. PATTERSON
17148
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.
DATE: 08/19/2026
DAVID R. PATTERSON
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2027.
PAGES OR SHEETS COVERED BY THIS SEAL:
A.01, B.01-02, C.01-02, D.01-14, G.01, L.01-L.02 (22 SHEETS TOTAL)

WASH-01
08-07-2025



NOTES:
1. SHOULDER WIDTH IS TYPICAL AND WILL VARY SLIGHTLY FROM LOCATION TO LOCATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THEIR PAVER WILL FIT ALONG ALL AREAS OF THE ROADWAY.

TYPICAL EXISTING SECTION
22' WIDE, 2-LANE PCC PAVEMENT
(NOT TO SCALE)

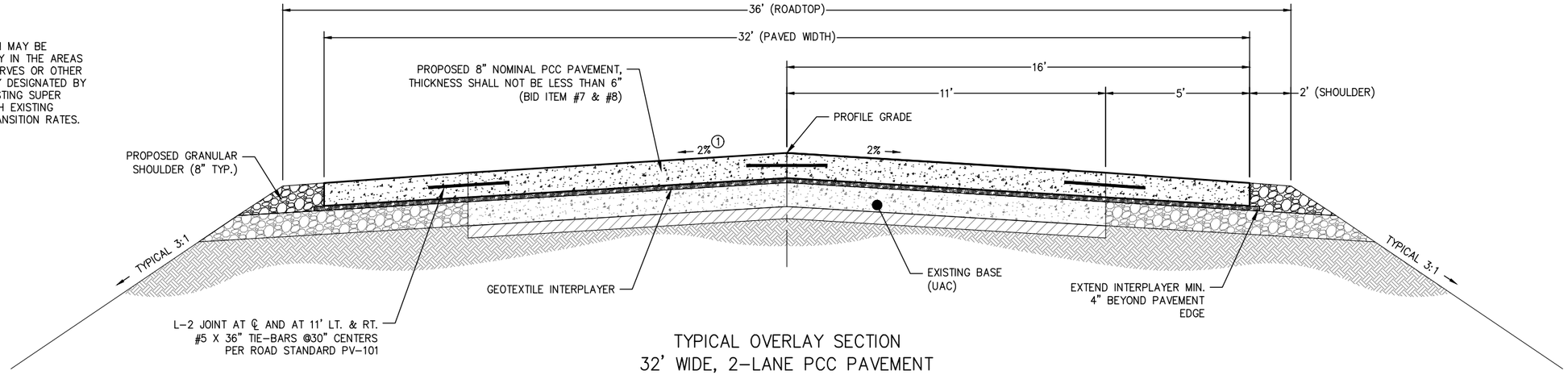
EXISTING PAVEMENT

102-5
04-18-17

NO.	LOCATION					YEAR	TYPE	PROJECT NUMBER	SURFACE		BASE		SUBBASE		REMOVAL		COURSE AGGREGATE			REINFORCEMENT	REMARKS
	COUNTY	ROUTE	DIR. OF TRAVEL	BEG. REF LOC.	END REF. LOC.				TYPE	DEPTH IN	TYPE	DEPTH IN	TYPE	DEPTH IN	TYPE	DEPTH IN	SOURCE	TYPE	DURABILITY CLASS	TYPE	
1	WASHINGTON	W-38	BOTH	267+25	456+08	1981	PCC	SN-7856(1)--51-92	PCC	8"-7"-8"	AC	4	LIMESTONE	6			KASER, WEST CHESTER	2	2	½" X 3' @ 48" C/C	

WASH-02
08-08-2025

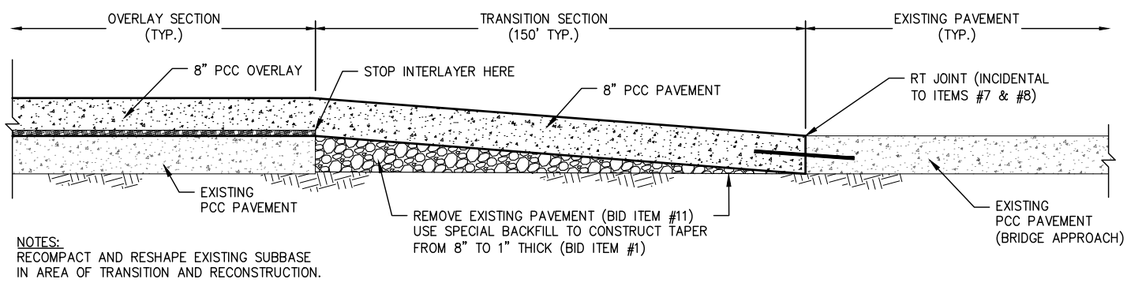
NOTES:
① TYPICAL SECTION SHOWN MAY BE MODIFIED APPROPRIATELY IN THE AREAS OF SUPER ELEVATED CURVES OR OTHER LOCATIONS SPECIFICALLY DESIGNATED BY THE ENGINEER. AT EXISTING SUPER ELEVATED AREAS, MATCH EXISTING CROSS SLOPES AND TRANSITION RATES.



TYPICAL OVERLAY SECTION
32' WIDE, 2-LANE PCC PAVEMENT
(NOT TO SCALE)

TYPICAL SECTIONS

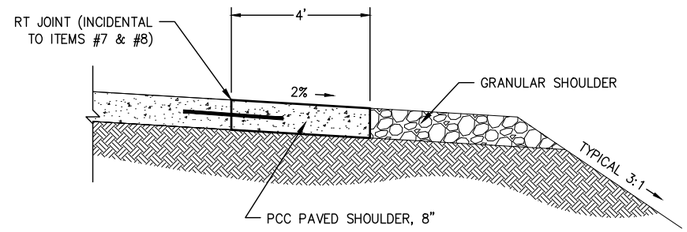
WASH-03
08-08-2025



NOTES:
RECOMPACT AND RESHAPE EXISTING SUBBASE
IN AREA OF TRANSITION AND RECONSTRUCTION.

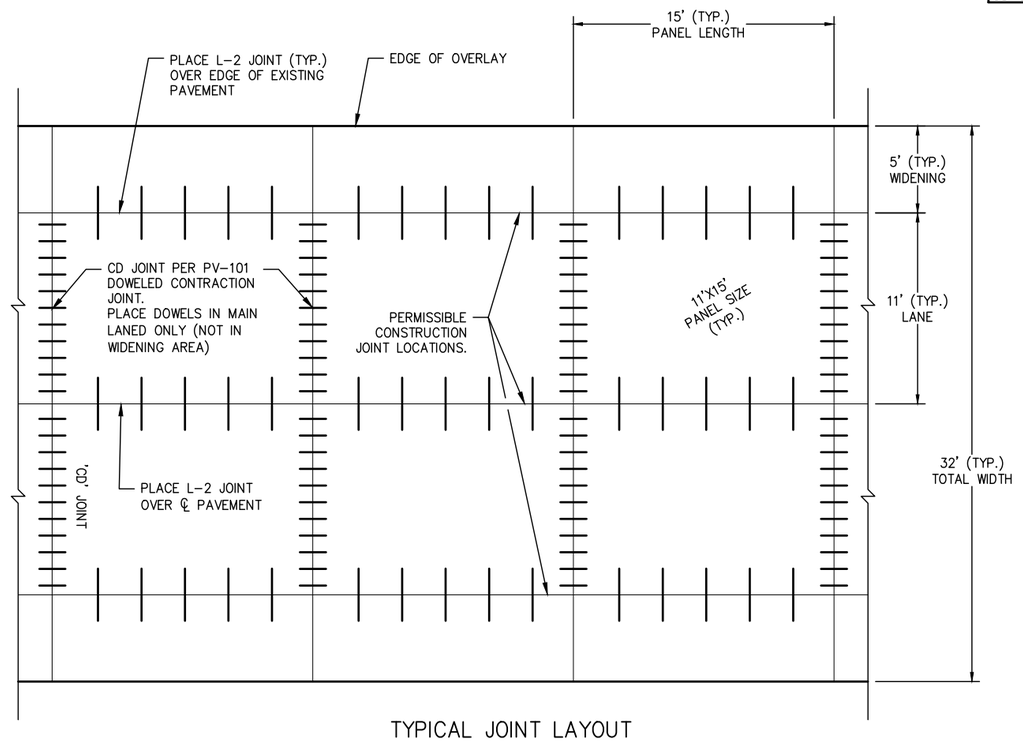
PAVEMENT TRANSITION DETAIL
(NOT TO SCALE)

WASH-06
08-08-2025



TYPICAL PROPOSED SECTION
PCC PAVED SHOULDER
(NOT TO SCALE)

WASH-04
08-08-2025



TYPICAL JOINT LAYOUT
32' WIDE, 2-LANE PCC PAVEMENT
(NOT TO SCALE)

ROAD DETAILS

TOTAL ESTIMATED QUANTITIES

DIVISION 1–STBG FUNDS
DIVISION 2–TSIP FUNDS

100–1C
04–17–12

REF.	CODE NO.	ITEM	UNIT	DIV 1	DIV 2	TOTAL
1	2102–0425070	SPECIAL BACKFILL	TON	126	--	126
2	2121–7425020	GRANULAR SHOULDERS, TYPE B	TON	5,429	--	5,429
3	2213–7100400	RELOCATION OF MAILBOXES	EACH	20	--	20
4	2310–5151040	PORTLAND CEMENT CONCRETE OVERLAY, FURNISH ONLY	CY	11,760	5,346	17,106
5	2310–5151045	PORTLAND CEMENT CONCRETE OVERLAY, PLACEMENT ONLY	SY	48,120	21,873	69,993
6	2310–8300550	PAVEMENT INTERLAYER GEOTEXTILE	SY	48,627	22,103	70,730
7	2317–7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE	EACH	29,600	--	29,600
8	2510–6745850	REMOVAL OF PAVEMENT	SY	493	--	493
9	2526–8285040	CONSTRUCTION SURVEY–LOCATION SURVEY	LS	1.00	--	1.00
10	2527–9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT–BASED	STA	496.06	--	496.06
11	2527–9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	--	393.50	393.50
12	2528–8445110	TRAFFIC CONTROL	LS	0.69	0.31	1.00
13	2533–4980005	MOBILIZATION	LS	0.69	0.31	1.00
14	2548–0000260	DIAMOND GROUND SHOULDER SINUSOIDAL RUMBLE STRIPS, PCC SURFACE	STA	--	317.73	317.73
15	2548–0000365	DIAMOND GROUND CENTERLINE SINUSOIDAL RUMBLE STRIPS, PCC SURFACE	STA	--	193.25	193.25

REF. ITEM NOTES

1. SPECIAL BACKFILL
   THIS MATERIAL WILL FORM A WEDGE TO TRANSITION THE SUBGRADE FROM THE EXISTING PAVEMENT SECTION TO THE OVERLAY PAVEMENT SECTION. SEE SHEET L.02 FOR LOCATION. SEE PROFILE DETAIL WASH–03 ON SHEET B.02.

2. GRANULAR SHOULDERS, TYPE B
   SEE TYPICAL WASH–02 ON SHEET B.01.
   SEE "QUANTITY SUMMARY" TABULATION ON THIS SHEET.
   AGGREGATE SHALL CONTAIN SUFFICIENT MOISTURE TO OBTAIN COMPACTION.
   QUANTITY INCLUDES MATERIAL FOR 47 ENTRANCES (15 TONS PER ENTRANCE) AND 3 GRAVEL SIDEROADS (45 TONS PER SIDEROAD).

3. RELOCATION OF MAILBOXES
   THE CONTRACTOR SHALL RELOCATE MAILBOXES ALONG THE PROJECT TO A TEMPORARY LOCATION TO ACCOMMODATE UNIMPEDED MAIL DELIVERY DURING CONSTRUCTION. THE CONTRACTOR SHALL FURNISH NEW 4"X4" TREATED WOOD POSTS IF EXISTING POST IS DAMAGED DURING REMOVAL OR IN TOO POOR CONDITION TO REUSE. VERIFY LOCATION WITH ENGINEER PRIOR TO REPLACEMENT.
   METHOD OF MEASUREMENT: THE ENGINEER WILL COUNT EACH MAILBOX THAT IS RELOCATED AND REPLACED.
   BASIS OF PAYMENT: THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR EACH MAILBOX RELOCATED AND REPLACED.

4. PORTLAND CEMENT CONCRETE OVERLAY, FURNISH ONLY
   REFER TO TYPICAL WASH–02 ON B.01.
   CERTIFIED PLANT INSPECTION WILL BE PERFORMED BY WASHINGTON COUNTY.
   CONCRETE MIX SHALL BE C–4. COARSE AGGREGATE DURABILITY SHALL BE 3I.
   ITEM INCLUDES CONCRETE TO BE PLACED AT THE TWO PAVED DRIVES (SHEET L.01) AND THE PAVED SHOULDERS NEAR THE BRIDGE (SHEET L.02).
   NO FLY ASH WILL BE ALLOWED IN THE CONCRETE MIXTURE.
   ITEM QUANTITY INCLUDES A 10% PLANNED OVERRUN TO ACCOUNT FOR POSSIBLE GRADE CORRECTIONS.

5. PORTLAND CEMENT CONCRETE OVERLAY, PLACEMENT ONLY
   REFER TO TYPICAL WASH–02 ON B.01.
   REFER TO STANDARD ROAD PLANS PV–101 FOR JOINTING.
   DOWELLED CONTRACTION JOINTS ('CD' JOINTS) ARE REQUIRED AT 15' SPACING. REFER TO TYPICAL WASH–04 ON B.02 FOR PLACEMENT DETAILS.
   ITEM INCLUDES PLACEMENT OF THE TWO PAVED DRIVES (SHEET L.01) AND THE PAVED SHOULDERS NEAR THE BRIDGE (SHEET L.02).

6. PAVEMENT INTERLAYER GEOTEXTILE
   SEE TAB 106–7 ON THIS SHEET.
   ITEM INCLUDES 32'–8 WIDTH TO ACCOMMODATE 4 IN. BEYOND BOTH OVERLAY EDGES (SEE DETAIL WASH–02 ON SHEET B.01).
   INTERLAYER SHALL BE 14.7 OZ/YD2 @170 MIL, TYPICAL WEIGHT GEOTEXTILE MATERIAL.
   REFER TO THE "DEVELOPMENTAL SPECIFICATAIONS FOR PAVEMENT INTERLAYER GEOTEXTILE FOR PCC OVERLAYS" INCLUDED IN THE PROPOSAL FORM.

7. PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE
   THIS ITEM IS FOR THE POTENTIAL INCENTIVE PAYMENT THE CONTRACTOR MAY EARN PER THE STANDARD SPECIFICATION. THE MAX INCENTIVE A CONTRACTOR MAY EARN IS $400 PER 0.1 MILE (528') PER LANE FOR A TOTAL OF $29,600. THE STIPULATED UNIT PRICE FOR THIS ITEM IS $1.00.

8. REMOVAL OF PAVEMENT
   ITEM COVERS REMOVAL OF TWO PAVED DRIVEWAYS AND PAVEMENT AT THE E.O.P.
   SEE LOCATIONS ON SHEETS L.01 & L.02.
   ALL REMOVALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF ACCORDINGLY. SAWCUTS FOR REMOVALS ARE CONSIDERED INCIDENTAL TO THE BID ITEM.

9. CONSTRUCTION SURVEY–LOCATION SURVEY
   WASHINGTON COUNTY WILL BE RESPONSIBLE FOR LAND SURVEY MONUMENT PRESERVATION.
   WASHINGTON COUNTY HAS PROVIDED A LIST OF PRIMARY CONTROL MONUMENTS NEAR THE PROJECT ON SHEET G.01.
   WASHINGTON COUNTY HAS PROVIDED AN XML CENTERLINE ALIGNMENT SUITABLE FOR AUTOMATED MACHINE CONTROL WITH THE CONTRACT DOCUMENTS.
   THE CONTRACTOR IS TO NOTE THAT A PROFILE GRADE IS NOT BEING PROVIDED AND THAT THEY WILL BE REQUIRED TO CROSS SECTION THE ROADWAY AND DESIGN A PROFILE GRADE AS STATED IN THE STANDARD SPECIFICATIONS.
   IF THE CONTRACTOR ELECTS TO USE AUTOMATED MACHINE CONTROL, THE CONTRACTOR WILL ALSO PREPARE THE SURFACE MODEL AS STATED IN THE STANDARD SPECIFICATIONS.

10. PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT–BASED
    SEE TAB 108–22 ON SHEET C.02.
    WHITE EDGE LINES SHALL BE 6 IN. WIDE AND YELLOW CENTER LINES SHALL BE 4 IN. WIDE.

11. GROOVES CUT FOR PAVEMENT MARKINGS
    SEE TAB 108–22 ON SHEET C.02. ITEM COVERS 6" WHITE EDGE LINES ONLY.

12. TRAFFIC CONTROL
    SEE TABULATIONS 108–23A ON THIS SHEET.
    WASHINGTON COUNTY WILL ERECT AND MAINTAIN THE SIGNED DETOUR.
    BID ITEM INCLUDES ALL SAFETY CLOSURES NECESSARY TO PROTECT CURING CONCRETE.
    AS SOON AS PAVEMENT REACHES MATURITY FOR EACH DAY OF PAVING, THE CONTRACTOR SHALL FURNISH AND PLACE SIGNING AS PER TC–202 (BOTH SIDES OF ROAD).

13. MOBILIZATION
    --

14. DIAMOND GROUND SHOULDER SINUSOIDAL RUMBLE STRIPS, PCC SURFACE
    SEE TAB 112–10 ON SHEET C.02.

14. DIAMOND GROUND CENTERLINE SINUSOIDAL RUMBLE STRIPS, PCC SURFACE
    SEE TAB 112–10 ON SHEET C.02.

TABULATION OF FABRIC REINFORCEMENT FOR CONTROL OF REFLECTIVE CRACKING

106–7
08–15–22

BEGIN STATION	END STATION	SIDE	WIDTH (LF)	AREA (SY)
267+25.00	461+91.00	BOTH	32'–8	70,730.0
TOTAL				70,730.0

RELOCATION OF MAILBOXES

STATION	ADDRESS	QUANTITY	LANDOWNER
	1591	1	
	1567	1	
	1538	1	
	1480	1	
	1471	1	
	1415	1	
	1407	1	
	1595	1	NUMBER FROM 140TH ST
	1391	1	
	1388	1	
	1376	1	
	1369	1	
	1364	1	
	1362	1	
	1360	1	
	1359	1	
	1551	1	FORREST HILL RD
	1555	1	FORREST HILL RD
	1559	1	FORREST HILL RD
	1389	1	GREENBRIER LN
TOTAL		20	

TRAFFIC CONTROL PLAN

108–23A
08–15–22

1. COUNTY ROUTE W–38 (GINKGO AVENUE) WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. CONSTRUCTION SHALL BE STAGED SO THAT RESIDENTS ALONG THE PROJECT ROUTE WILL HAVE ACCESS TO THEIR HOMES AND DRIVEWAYS DAILY.
2. A DETOUR FOR TRAFFIC WILL BE PROVIDED BY WASHINGTON COUNTY. DETOUR RELATED TRAFFIC CONTROL DEVICES ARE NOT INCLUDED IN THIS CONTRACT. THEY WILL BE PROVIDED, INSTALLED, AND MAINTAINED BY THE COUNTY.
3. TRAFFIC CONTROL ON THIS PROJECT SHALL BE FOUND IN ACCORDANCE WITH THE TC SERIES STANDARD ROAD PLANS FOUND IN TABULATION 105–4 ON THIS SHEET. FOR ADDITIONAL COMPLEMENTARY INFORMATION, REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130 AND THE CURRENT STANDARD SPECIFICATIONS.
4. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
5. WHERE POSSIBLE, ALL POST MOUNTED SIGNS SHALL BE PLACED AT LEAST 2 FEET BEYOND THE CURB OR EDGE OF SHOULDER.
6. THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER.
7. PROPOSED SIGN SPACING MAY BE MODIFIED AS APPROVED BY THE ENGINEER TO MEET EXISTING FIELD CONDITIONS OR TO PREVENT OBSTRUCTION OF THE MOTORIST'S VIEW OF PERMANENT SIGNING.
8. PROPOSED CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE ENGINEER BEFORE CHANGES ARE MADE.
9. WASHINGTON COUNTY MAINTENANCE SHALL SALVAGE EXISTING ROAD MARKERS AFTER THE ROAD IS CLOSED.
10. WASHINGTON COUNTY SHALL ERECT AND MAINTAIN ANY NECESSARY PEDESTRIAN CLOSURE OR DETOURS.

STANDARD ROAD PLANS

105–4
04–16–24

The following Standard Road Plans apply to construction work on this project.

NUMBER	DATE	TITLE
MI–210	10–21–2025	PCC DRIVEWAYS AND ALLEYS
PM–110	10–15–2024	LINE TYPES
PM–115	10–20–2026	GROOVING FOR LINE TYPES
PV–12	10–20–2026	SHOULDER RUMBLE STRIPS
PV–13	10–20–2026	CENTERLINE RUMBLE STRIPS
PV–101	10–20–2026	JOINTS
TC–202	04–18–2023	WORK WITHIN 15 FT OF TRAVELED WAY
TC–232	10–21–2014	SHOULDER RUMBLE STRIP OPERATIONS
TC–233	10–17–2017	PAVEMENT MARKING OPERATIONS (TWO–LANE)
TC–252	10–20–2026	ROUTES CLOSED TO TRAFFIC

QUANTITIES SUMMARY

LOCATION			CONCRETE				ASPHALT		SHOULDER ROCK	SPECIAL BACKFILL
ITEM	STATION TO STATION		REMOVAL (SY)	SCARIFY (SY)	PLACE (SY)	PLACE (CY)	PLACE (TON)	BINDER (TON)	(TONS)	(TONS)
GINKGO MAINLINE *	267+25.00	461+91.00			69,213	16,919			4,542	
GRAVEL DRIVES (47)									705	
GRAVEL ROADS (3)									135	
PAVED DRIVES (2)			126		169	38				
EOP CONNECTION *	461+91.00	463+41.00	367		567	139			35	126
SHOULDER AT BRIDGE	463+41.00	463+91.00			44	10			12	
TOTAL			493		69,993	17,106			5,429	126

* NOTE: MAINLINE CY VOLUME INCLUDES A 10% OVERRUN TO ACCOUNT FOR POSSIBLE GRADE CORRECTIONS.

BID ITEMS, BID ITEM NOTES

PAVEMENT MARKING LINE TYPES

108-22
10-21-25

SEE PM-110 *BCY4 - PLACE ON THE SAME SIDE OF THE ROADWAY TO MATCH EXISTING MARKINGS NEAR THE PROJECT. **NPY4 - FOR ESTIMATING PURPOSES ONLY. NO PASSING ZONE LINES WILL BE LOCATED IN THE FIELD.

BCY4: BROKEN CENTERLINE (YELLOW) @ 0.17 DCY4: DOUBLE CENTERLINE (YELLOW) @ 1.34 NPY4: NO PASSING ZONE LINE (YELLOW) @ 0.84 BLW4: BROKEN LANE LINE (WHITE) @ 0.17 ELW4: EDGE LINE RIGHT (WHITE) @ 0.64 ELW6: EDGE LINE RIGHT (WHITE) @ 1.00

LINE NO.	ROAD ID	STATION	STATION	LANE	MARKING TYPE	LEFT	CENTER	RIGHT	GROOVE MARKING NEEDED	GROOVE QTY (STA)	BCY4 * FACTORED (STA)	DCY4 FACTORED (STA)	NPY4 ** FACTORED (STA)	ELW6 FACTORED (STA)			REMARKS
DIV 1																	
1	GINKGO AVE	267+25	464+00	NB	WATERBORNE/SOLVENT PAINT			X	YES	196.75				196.75			
2	GINKGO AVE	267+25	464+00	SB	WATERBORNE/SOLVENT PAINT			X	YES	196.75				196.75			
DIV 2																	
3	GINKGO AVE	267+25	362+90	NB	WATERBORNE/SOLVENT PAINT		X		NO		16.26						
4	GINKGO AVE	362+90	367+39	NB	WATERBORNE/SOLVENT PAINT		X		NO				3.77				
5	GINKGO AVE	367+39	369+77	NB	WATERBORNE/SOLVENT PAINT		X		NO		0.40						
6	GINKGO AVE	369+77	377+68	NB	WATERBORNE/SOLVENT PAINT		X		NO				6.64				
7	GINKGO AVE	377+68	378+16	NB	WATERBORNE/SOLVENT PAINT		X		NO		0.08						
8	GINKGO AVE	378+16	385+38	NB	WATERBORNE/SOLVENT PAINT		X		NO				6.06				
9	GINKGO AVE	385+38	395+16	NB	WATERBORNE/SOLVENT PAINT		X		NO				8.22				
10	GINKGO AVE	395+16	418+40	NB	WATERBORNE/SOLVENT PAINT		X		NO		3.95						
11	GINKGO AVE	418+40	426+52	NB	WATERBORNE/SOLVENT PAINT		X		NO				6.82				
12	GINKGO AVE	426+52	464+10	NB	WATERBORNE/SOLVENT PAINT		X		NO			50.36					
									TOTALS	393.50	20.69	50.36	31.51	393.50			

TOTAL BID ITEM - "GROOVES CUT FOR PAVEMENT MARKINGS" (STA)	393.50 STATIONS
TOTAL BID ITEM - "PAINTED PAVEMENT MARKINGS, WATERBORNE/SOLVENT" (STA)	496.06 STATIONS

MILLED RUMBLE STRIPS

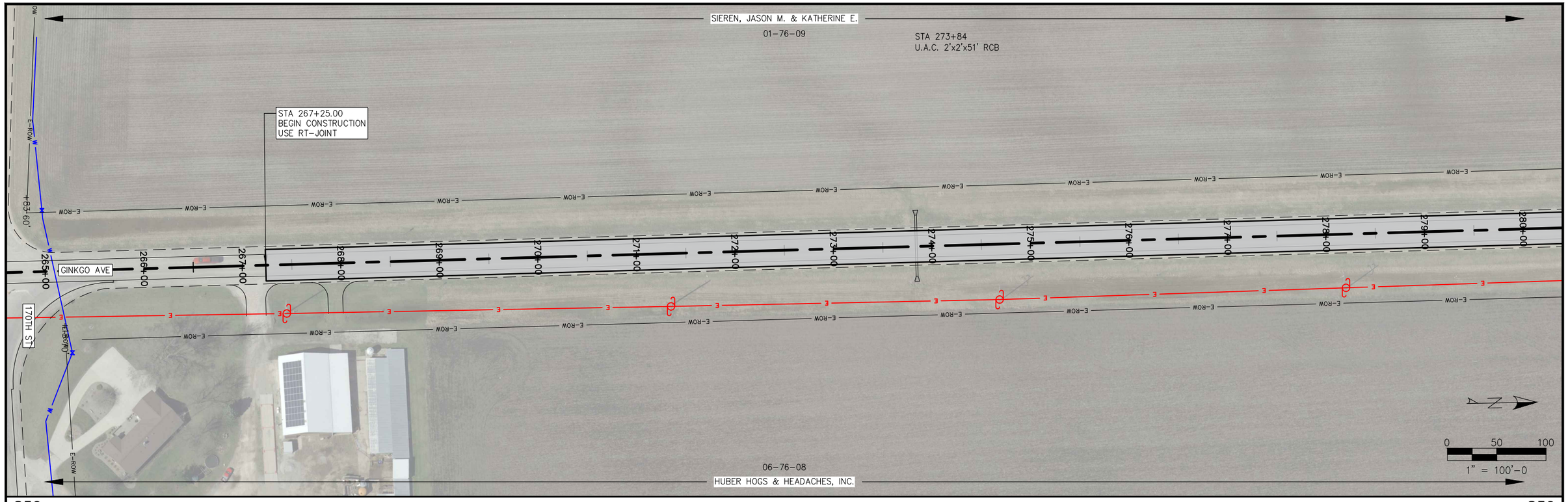
112-10
10-20-2026

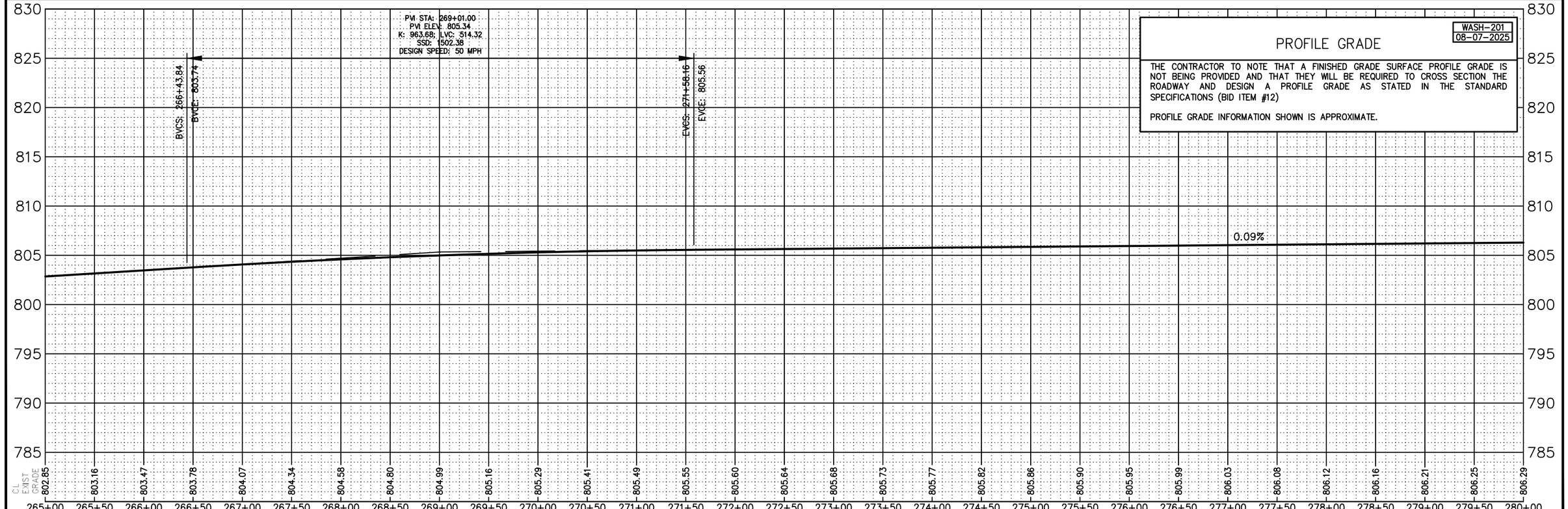
SEE PV-12 AND PV-13.

* CALCULATED AT 18" WIDTH FOR SHOULDER. ** FOR USE WITH PENETRATING ENGINEERED FOG SEAL. CALCULATED AT 2" WIDER THAN RUMBLE STRIPS.

LINE NO.	ROAD IDENTIFICATION	STATION FROM	STATION TO	RUMBLE STRIP LANE	RUMBLE STRIP TYPE	FOG SEAL TYPE	L (IN)	PCC LENGTH (STA)	HMA LENGTH (STA)	FOR SEAL * SHOULDER (GAL)	FOG SEAL (SY)**	EFFECTIVE SHOULDER WIDTH PCC (FT)	EFFECTIVE SHOULDER WIDTH HMA (FT)	EFFECTIVE SHOULDER WIDTH GRANULAR/EARTH (FT)	REMARKS
DIV 1															
1	GINKGO AVE	267+25	343+15		CENTERLINE	--	20	75.90							
2	GINKGO AVE	344+65	424+03		CENTERLINE	--	20	79.38							
3	GINKGO AVE	425+53	463+50		CENTERLINE	--	20	37.97							
					TOTAL BID ITEM "MILLED CENTERLINE RUMBLE STRIPS"			193.25							
DIV 2															
4	GINKGO AVE	288+00	342+10	NB	SHOULDER	--	12	54.1							
5	GINKGO AVE	344+40	352+97	NB	SHOULDER	--	12	8.57							
6	GINKGO AVE	355+27	366+90	NB	SHOULDER	--	12	11.63							
7	GINKGO AVE	369+20	376+25	NB	SHOULDER	--	12	7.05							
8	GINKGO AVE	378+55	420+22	NB	SHOULDER	--	12	41.67							
9	GINKGO AVE	422+52	422+98	NB	SHOULDER	--	12	0.46							
10	GINKGO AVE	425+28	434+82	NB	SHOULDER	--	12	9.54							
11	GINKGO AVE	440+18	445+92	NB	SHOULDER	--	12	5.74							
12	GINKGO AVE	448+22	448+83	NB	SHOULDER	--	12	0.61							
13	GINKGO AVE	451+13	463+50	NB	SHOULDER	--	12	12.37							
14	GINKGO AVE	463+50	453+39	SB	SHOULDER	--	12	10.11							
15	GINKGO AVE	451+09	448+25	SB	SHOULDER	--	12	2.84							
16	GINKGO AVE	445+95	441+19	SB	SHOULDER	--	12	4.76							
17	GINKGO AVE	436+23	430+98	SB	SHOULDER	--	12	5.25							
18	GINKGO AVE	428+68	420+77	SB	SHOULDER	--	12	7.91							
19	GINKGO AVE	418+47	418+36	SB	SHOULDER	--	12	0.11							
20	GINKGO AVE	416+06	390+86	SB	SHOULDER	--	12	25.20							
21	GINKGO AVE	388+56	373+22	SB	SHOULDER	--	12	15.34							
22	GINKGO AVE	370+92	356+62	SB	SHOULDER	--	12	14.30							
23	GINKGO AVE	354+32	345+70	SB	SHOULDER	--	12	8.62							
24	GINKGO AVE	343+40	334+84	SB	SHOULDER	--	12	8.56							
25	GINKGO AVE	332+54	322+22	SB	SHOULDER	--	12	10.32							
26	GINKGO AVE	319+92	267+25	SB	SHOULDER	--	12	52.67							
					TOTAL BID ITEM "DIAMOND GROUND SHOULDER SINUSOIDAL RUMBLE STRIPS, PCC SURFACE"			317.73								

TABULATIONS





WASH-201
08-07-2025

PROFILE GRADE

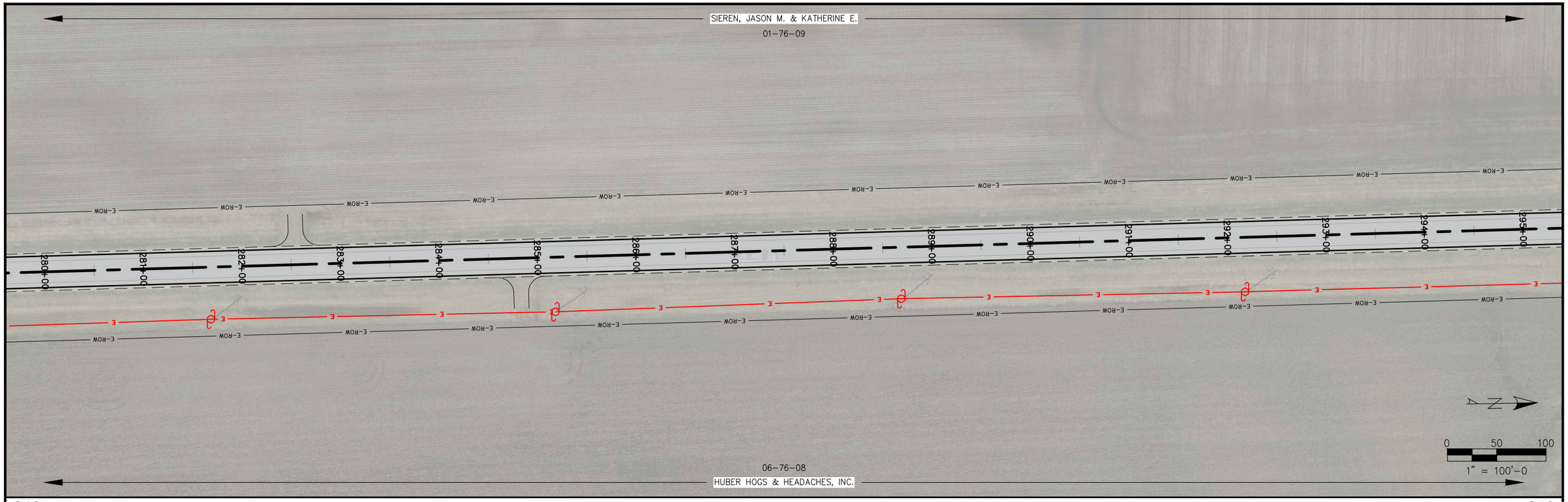
THE CONTRACTOR TO NOTE THAT A FINISHED GRADE SURFACE PROFILE GRADE IS NOT BEING PROVIDED AND THAT THEY WILL BE REQUIRED TO CROSS SECTION THE ROADWAY AND DESIGN A PROFILE GRADE AS STATED IN THE STANDARD SPECIFICATIONS (BID ITEM #12)

PROFILE GRADE INFORMATION SHOWN IS APPROXIMATE.

FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.01

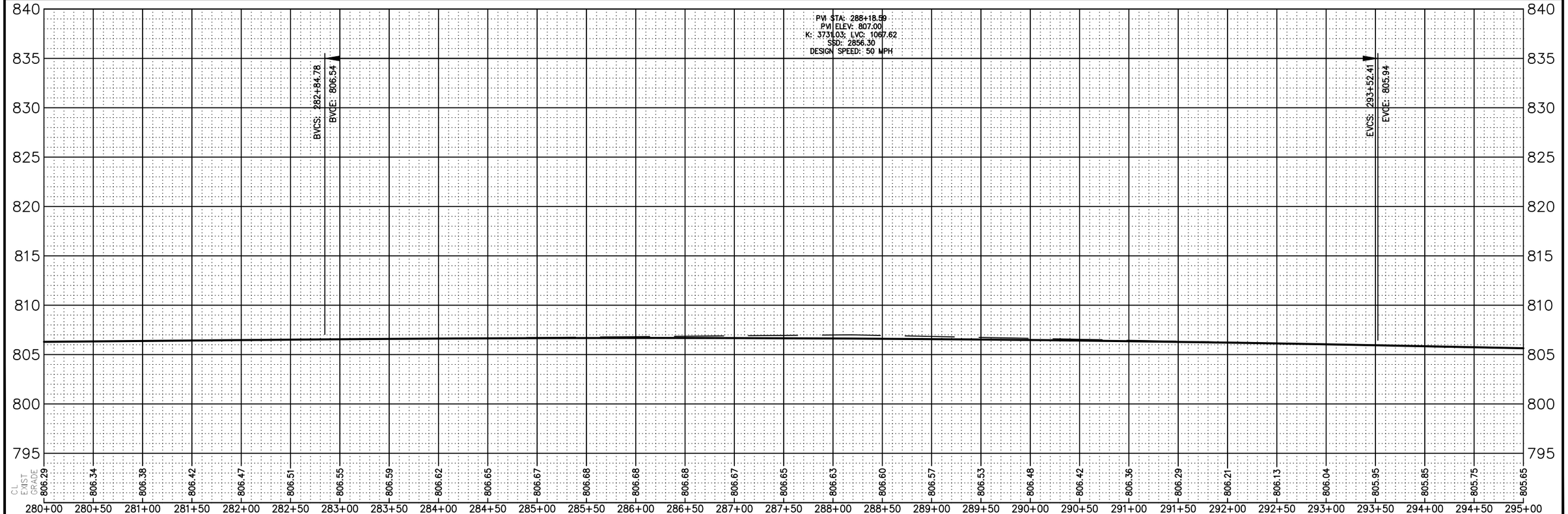
SIEREN, JASON M. & KATHERINE E.

01-76-09



06-76-08

HUBER HOGS & HEADACHES, INC.



FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.02

SIEREN, JASON M. & KATHERINE E.

BUSH, DONNA M.

STA 295+91
U.A.C. 4'x2'x60' RCB

STA 301+67
U.A.C. 3'x2'x68' RCB

01-76-09

06-76-08

HUBER HOGS & HEADACHES, INC.

NORMAN, MICHAEL S. & KATY C.

E-ROW

E

295+00 296+00 297+00 298+00 299+00 300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00

0 50 100
1" = 100'-0

N

PVI STA: 299+93.54
PVI ELEV: 804.66
K: 663.77; LVC: 443.83
SSD: 211.24
DESIGN SPEED: 50 MPH

PVI STA: 306+05.80
PVI ELEV: 807.54
K: 511.19; LVC: 393.02
SSD: 1060.91
DESIGN SPEED: 50 MPH

BVCS: 297+71.63
BVCE: 805.11

EVCS: 302+15.46
EVCE: 805.71

BVCS: 304+09.29
BVCE: 806.62

EVCS: 308+02.31
EVCE: 806.95

-0.20%

0.47%

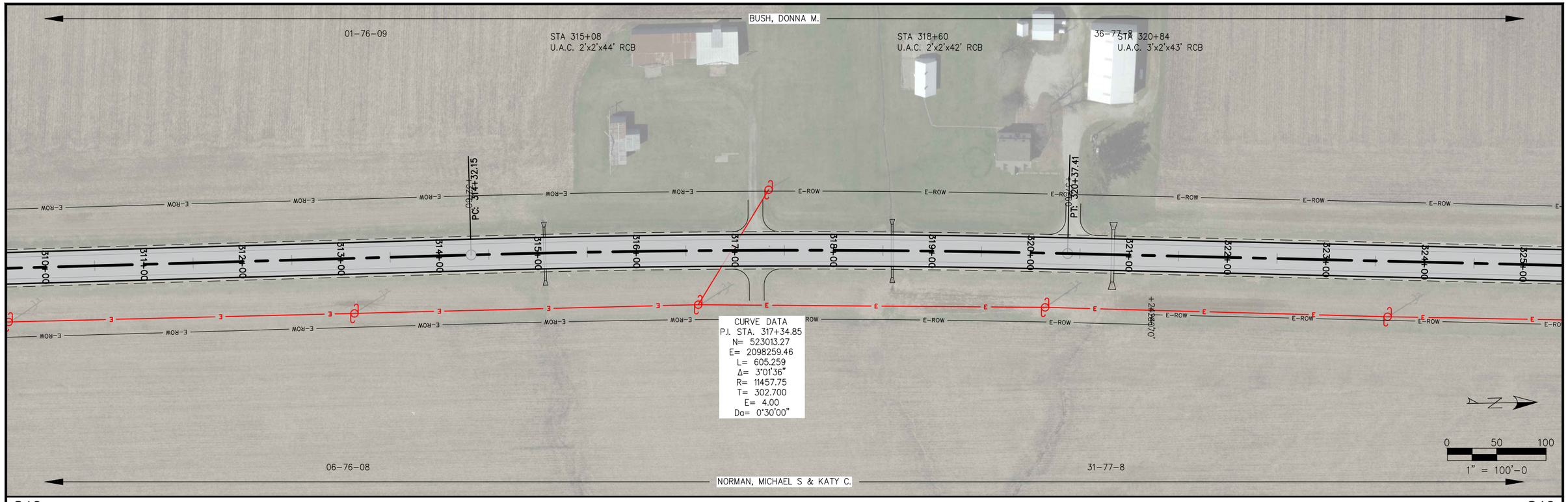
840 835 830 825 820 815 810 805 800 795

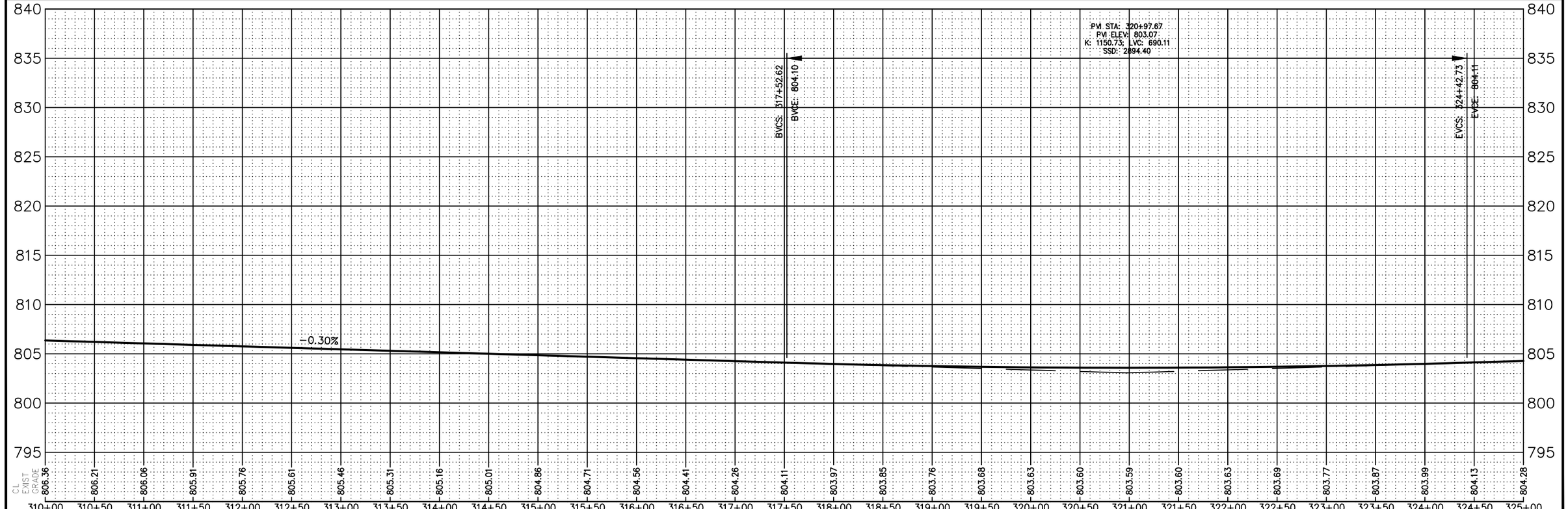
CL EXIST GRADE

805.65 805.55 805.45 805.35 805.25 805.15 805.06 805.00 804.97 804.99 805.04 805.13 805.26 805.43 805.63 805.87 806.10 806.34 806.57 806.79 806.96 807.08 807.15 807.18 807.15 807.08 806.96 806.81 806.66 806.51 806.36

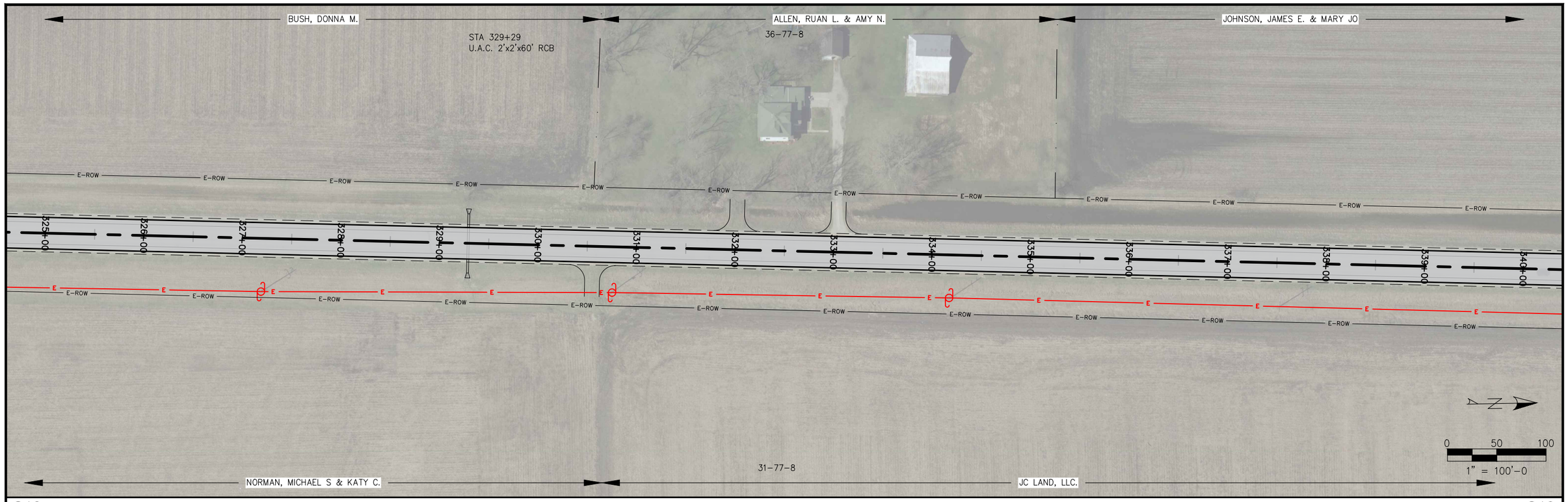
295+00 295+50 296+00 296+50 297+00 297+50 298+00 298+50 299+00 299+50 300+00 300+50 301+00 301+50 302+00 302+50 303+00 303+50 304+00 304+50 305+00 305+50 306+00 306+50 307+00 307+50 308+00 308+50 309+00 309+50 310+00

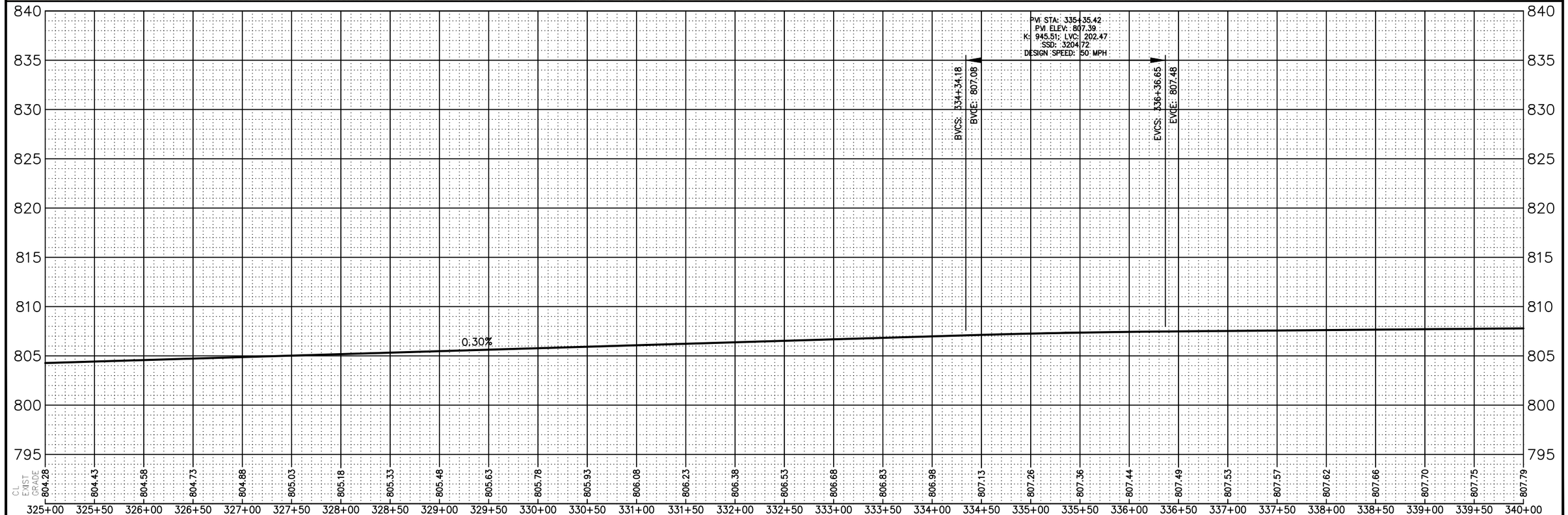
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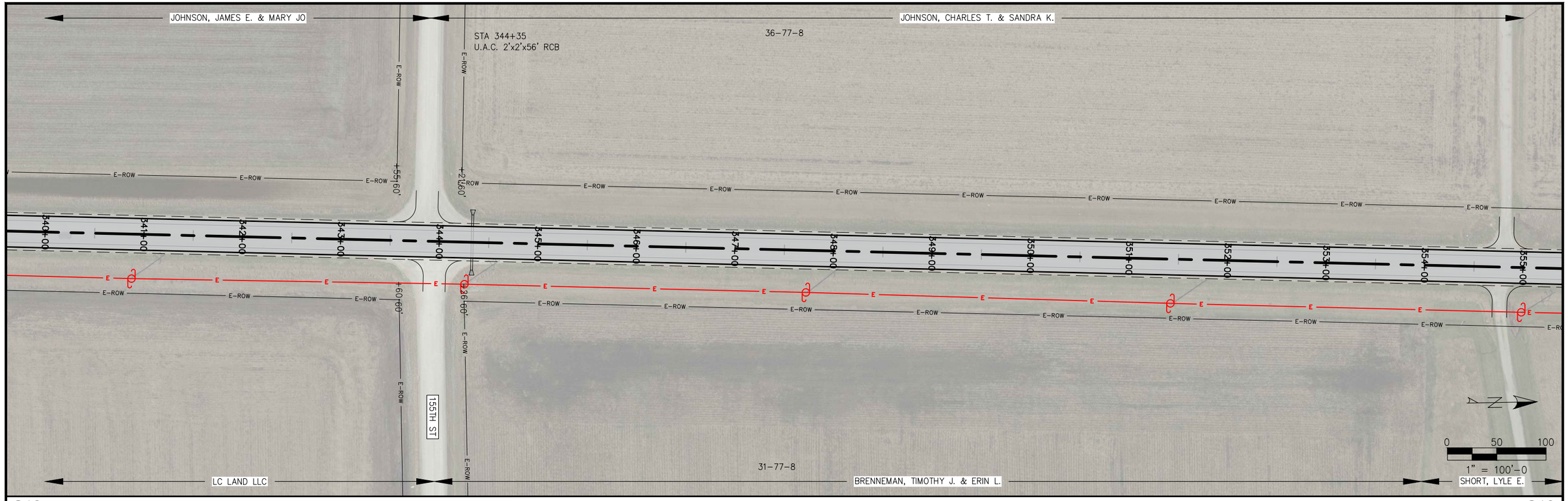


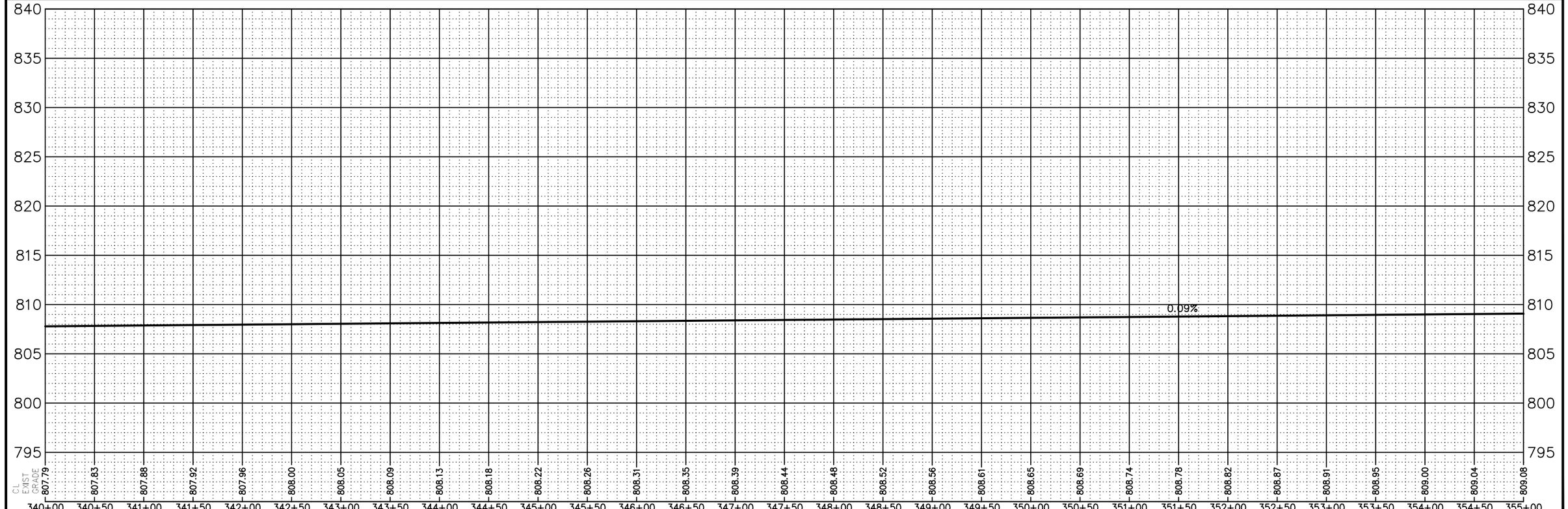
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FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.05





FILE: _PLAN AND PROFILE.DWG | WASHINGTON COUNTY | PROJECT NUMBER: STP-S-C092(128)--5E-92 | SHEET NUMBER D.06

JOHNSON, CHARLES T. & SANDRA K.

JOHNSON, WAYNE E. TRUST

36-77-8

CURVE DATA
P.I. STA. 368+15.37
N= 528092.46
E= 2098381.64
L= 538.481
Δ= 18°51'57"
R= 1635.37
T= 271.700
E= 22.42
Da= 3°30'13"

PC: 365+43.67

+89.60'

+44.60'

E-ROW

E

355+00 356+00 357+00 358+00 359+00 360+00 361+00 362+00 363+00 364+00 365+00 366+00 367+00 368+00 369+00 370+00

0 50 100
1" = 100'-0

31-77-8

SHORT, LYLE E.

JOHNSON, WAYNE E. TRUST

JC LAND INC

PVI STA: 369+00.05
PVI ELEV: 810.29
K: 192.98; LVC: 457.23
SSD: 509.11
DESIGN SPEED: 50 MPH

BVCS: 366+71.43
BVCE: 810.09

840 835 830 825 820 815 810 805 800 795

CL EXIST GRADE
809.08 809.12 809.17 809.21 809.25 809.30 809.34 809.38 809.43 809.47 809.51 809.56 809.60 809.64 809.68 809.73 809.77 809.81 809.86 809.90 809.94 809.99 810.03 810.07 810.09 810.00 809.77 809.42 808.93 808.32 807.58

355+00 355+50 356+00 356+50 357+00 357+50 358+00 358+50 359+00 359+50 360+00 360+50 361+00 361+50 362+00 362+50 363+00 363+50 364+00 364+50 365+00 365+50 366+00 366+50 367+00 367+50 368+00 368+50 369+00 369+50 370+00

FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.07

JOHNSON, WAYNE E. TRUST

WASHINGTON COUNTY

JOHNSON, WAYNE E. TRUST

STA 374+98
U.A.C. 3'x3'x74' RCB

25-77-9

STA 379+51
U.A.C. 3'x2'x64' RCB

PT: 370+82.15

+13.01'
+06.49'

+30.09'

60'
+54.50'

60'
+35.50'

0 50 100
1" = 100'-0

PALMER, JAMES F. & DONNA J.

25-77-9

JC LAND INC.

JOHNSON, WAYNE E. TRUST

PVI STA: 369+00.05
PVI ELEV: 810.29
K: 192.98; LVC: 457.23
SSD: 509.11
DESIGN SPEED: 50 MPH

EVCS: 371+28.66
EVCE: 805.07

PVI STA: 378+47.99
PVI ELEV: 788.64
K: 117.09; LVC: 625.60
SSD: 502.03
DESIGN SPEED: 50 MPH

BVCS: 375+35.19
BVCE: 795.79

EVCS: 381+60.79
EVCE: 798.22

PVI STA: 385+65.40
PVI ELEV: 810.60
K: 162.05; LVC: 516.64
SSD: 464.10
DESIGN SPEED: 50 MPH

BVCS: 383+07.08
BVCE: 802.69

-2.28%

3.06%

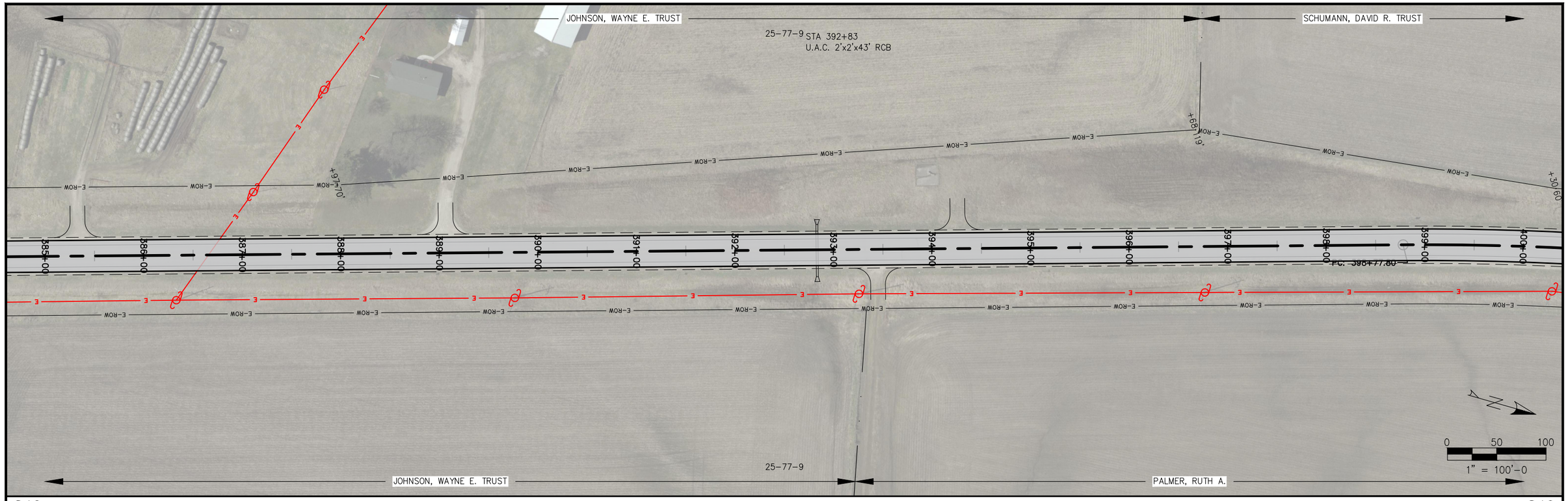
CL EXIST GRADE

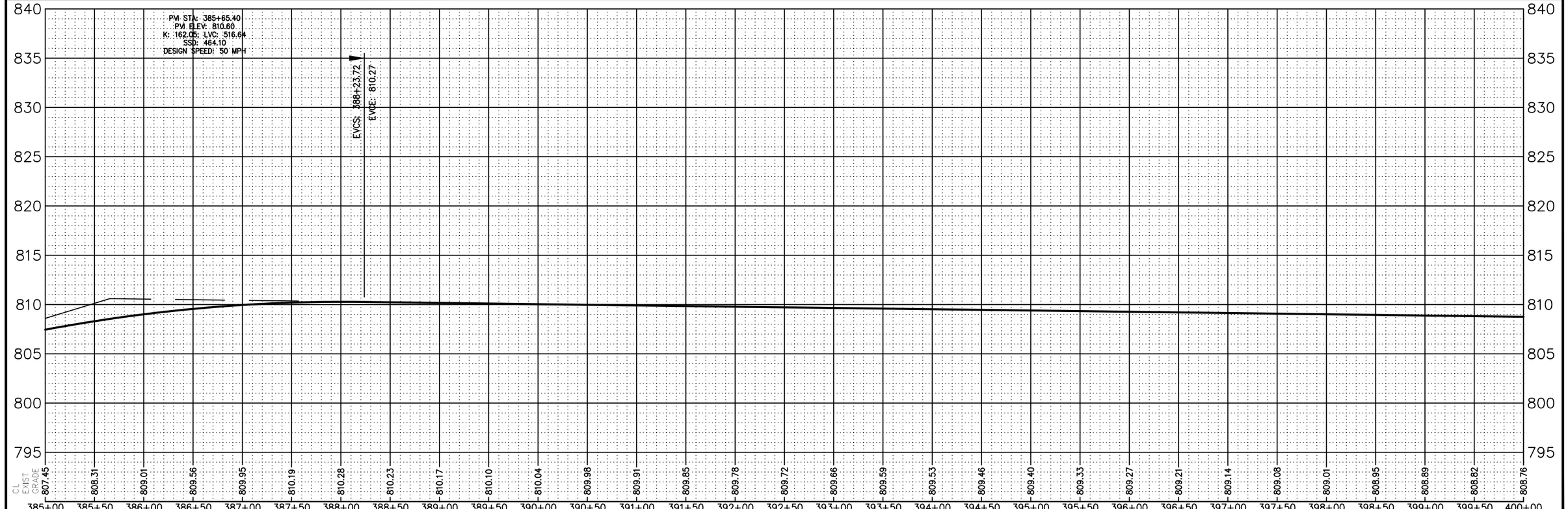
807.58 806.70 805.70 804.58 803.44 802.30 801.16 800.01 798.87 797.73 796.59 795.46 794.49 793.73 793.18 792.85 792.74 792.83 793.14 793.66 794.40 795.35 796.51 797.89 799.42 800.95 802.48 803.95 805.27 806.44 807.45

370+00 370+50 371+00 371+50 372+00 372+50 373+00 373+50 374+00 374+50 375+00 375+50 376+00 376+50 377+00 377+50 378+00 378+50 379+00 379+50 380+00 380+50 381+00 381+50 382+00 382+50 383+00 383+50 384+00 384+50 385+00

830 825 820 815 810 805 800 795 790 785

FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.08





FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.09

SCHUMANN, DAVID R. TRUST

25-77-9

MYERS, ALEXIS I. & BOONE H.

STA 413+68
U.A.C. 2'x2'x89' RCB

+88.00'

E-ROW

+05.50'

+30.60'

P.I. 405+40.14

+98.60'

CURVE DATA
P.I. STA. 402+10.40
N= 531335.26
E= 2097359.93
L= 662.209
Δ= 13°18'11"
R= 2852.09
T= 332.600
E= 19.33
Da= 2°00'32"

0 50 100
1" = 100'-0

25-77-9

PALMER, RUTH A.

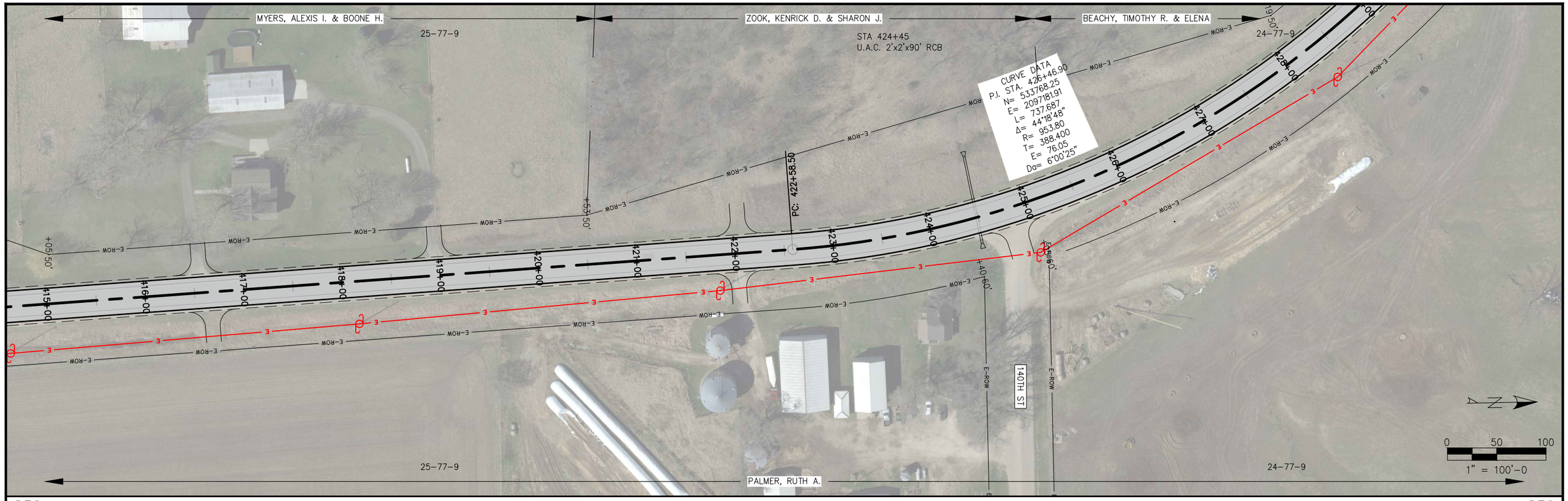
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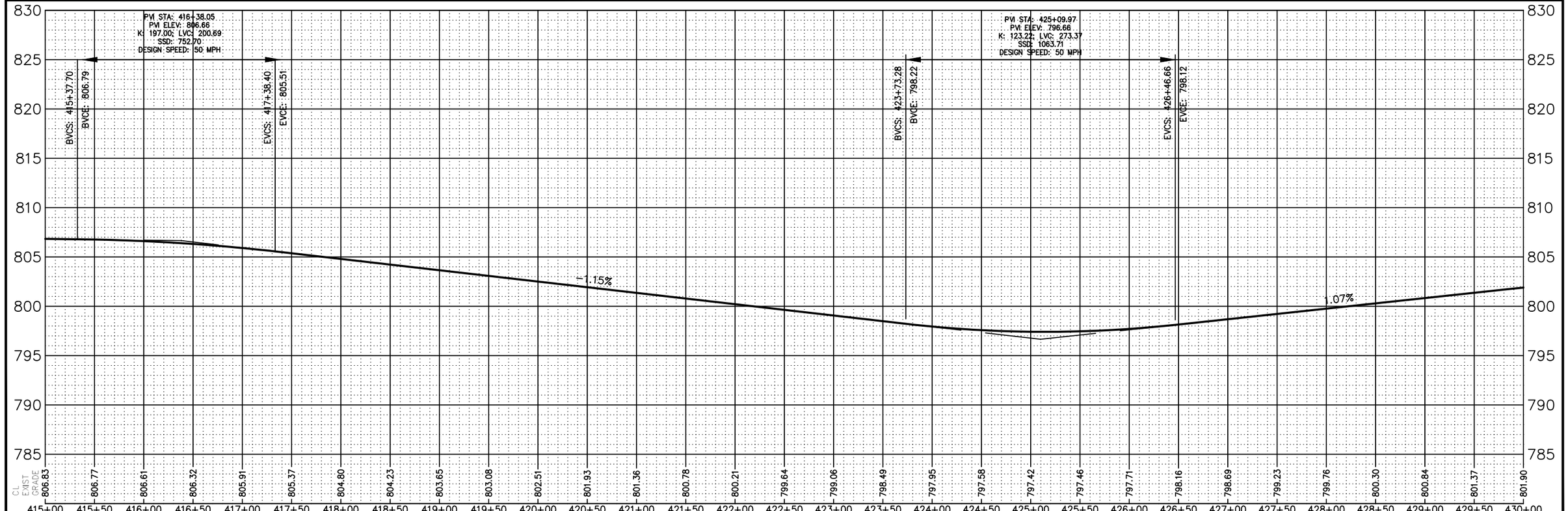
CL EXIST GRADE

808.76 808.69 808.63 808.57 808.50 808.44 808.37 808.31 808.24 808.18 808.12 808.05 807.99 807.92 807.86 807.80 807.73 807.67 807.60 807.54 807.48 807.41 807.35 807.28 807.22 807.15 807.09 807.03 806.96 806.90 806.83

400+00 400+50 401+00 401+50 402+00 402+50 403+00 403+50 404+00 404+50 405+00 405+50 406+00 406+50 407+00 407+50 408+00 408+50 409+00 409+50 410+00 410+50 411+00 411+50 412+00 412+50 413+00 413+50 414+00 414+50 415+00

FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.10





FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.11

ZOOK, KENRICK D. & SHARON J.

BEACHY, TIMOTHY R. & ELENA

MAPLE GROVE FARM

24-77-9

MAPLE GROVE FARM

MCCULLEY, NICHOLAS J. & KELSEY M.

CURVE DATA
P.I. STA. 426+46.90
N= 533768.25
E= 2097181.91
L= 737.687
Δ= 44°16'48"
R= 953.80
T= 388.400
E= 76.05
Dc= 6°00'25"

CURVE DATA
P.I. STA. 439+54.67
N= 534660.75
E= 2096173.18
L= 595.551
Δ= 59°31'17"
R= 573.28
T= 327.000
E= 87.70
Dc= 9°59'40"

PC: 436+26.87

P.I. STA. 429+62.61

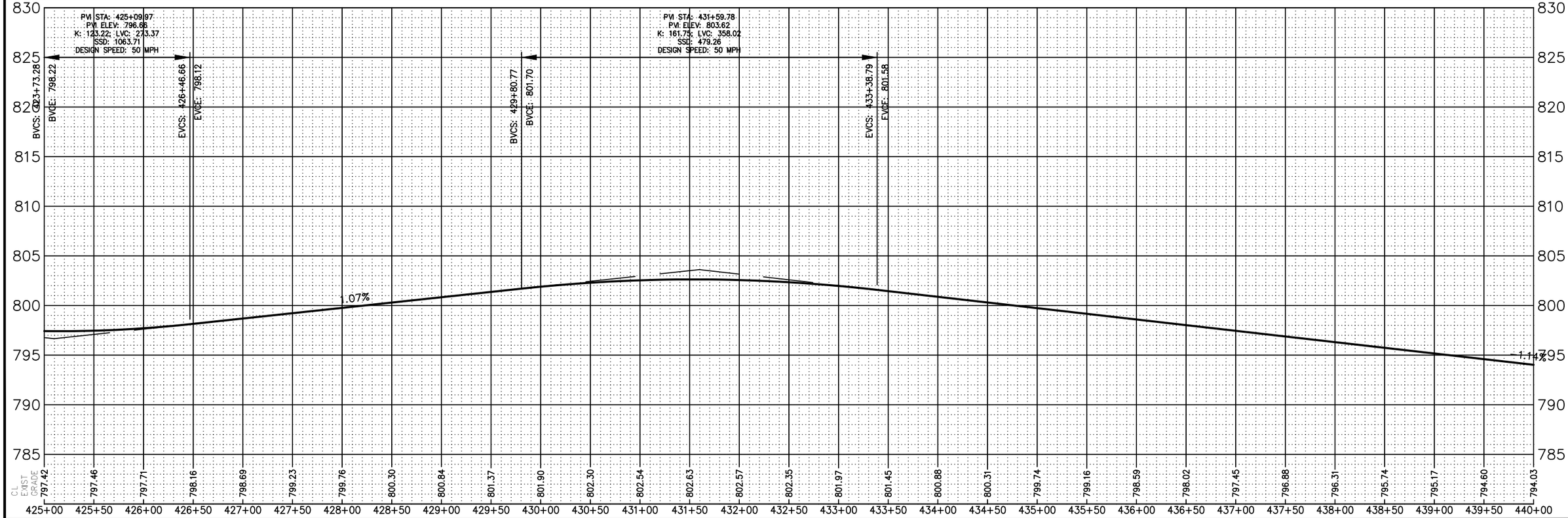
24-77-9

PALMER, RUTH A.

GENO, JOSHUA L. & CARRIE

ADAM, MICHAEL J. & TERRI L.

0 50 100
1" = 100'-0



FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.12

TROYER, TODD R. & DEBORAH A.

STA 444+51
U.A.C. 2'x2'x59' RCB

24-77-9

STA 451+59
REMOVE 71 SY OF PC DRIVEWAY
PLACE 94 SY 6" PC DRIVEWAY
SEE SHEET L.01.

FIKES, MICHAEL V. & KIRA M.

PT: 442+22.42

PC: 448+24.83

CURVE DATA
P.I. STA. 453+01.14
N= 5360441.32
E= 2096442.11
L= 883.964
Δ= 52°54'05"
R= 957.39
T= 476.310
E= 111.94
Do= 5°59'04"

+86.125'

+83.109'

+25.60'

+28.60'

STA 450+63
REMOVE 54 SY PC DRIVEWAY
PLACE 74 SY 6" PCC DRIVEWAY
SEE SHEET L.01

0 50 100
1" = 100'-0

24-77-9

ADAM, MICHAEL J. & TERRI L.

STATLER, JEREMY G. & KARI L.

SKELTON, TODD S. & AMY R.

STATLER, JEREMY G. & KARI L.

HARMSEN, CHRISTOPHER J. & NICOLE K.

PVI STA: 448+27.65
PVI ELEV: 784.58
K: 72.46; LVC: 358.46
SSD: 310.34
DESIGN SPEED: 50 MPH

EVCS: 446+48.42
EVCE: 786.62

EVCS: 450+06.88
EVCE: 773.66

-6.09%

C.L. EXIST GRADE

794.03 793.46 792.88 792.31 791.74 791.17 790.60 790.03 789.46 788.89 788.32 787.75 787.18 786.60 785.85 784.75 783.31 781.52 779.38 776.90 774.08 771.04 767.99 764.95 761.90 758.86 755.82 752.77 749.73 746.68 743.64

440+00 440+50 441+00 441+50 442+00 442+50 443+00 443+50 444+00 444+50 445+00 445+50 446+00 446+50 447+00 447+50 448+00 448+50 449+00 449+50 450+00 450+50 451+00 451+50 452+00 452+50 453+00 453+50 454+00 454+50 455+00

FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.13

FIKES, MICHAEL V. & KIRA M.

24-77-9

IDEAL READY MIX CO.

STA 464+50
U.A.C. 30'x70' CONC. SLAB BRIDGE

STA 456+45.00
CITY LIMITS OF WELLMAN

PT: 457+08.80

STA 461+91.00
BEGIN 150' REMOVAL
FOR TRANSITION

PC: 461+99.17

PROPOSED PAVEMENT REMOVAL
SEE SHEET K.01

STA 463+41.00
END 150' REMOVAL
FOR TRANSITION
END PCC OVERLAY

STA 464+00.00
END CONSTRUCTION
END PAVEMENT MARKINGS
END DIV. 2

CURVE DATA
P.I. STA. 453+01.14
N= 536041.32
E= 2096442.11
L= 883.964
Δ= 52°54'05"
R= 957.39
T= 476.310
E= 111.94
Do= 5°59'04"

STA 463+41.00 – 463+91.00
PLACE 8" X 4' PCC SHOULDERS

CURVE DATA
P.I. STA. 464+69.57
N= 536962.41
E= 2095616.29
L= 517.207
Δ= 41°16'32"
R= 717.95
T= 270.400
E= 49.23
Do= 7°58'50"

PT: 467+16.38

0 50 100
1" = 100'-0

HARMSEN, CHRISTOPHER J. & NICOLE K.

24-77-9

CITY OF WELLMAN

ENDECOTT, TIMOTHY W. & CHRISTINA M.

PVI STA: 460+36.47
PVI ELEV: 710.97
K: 84.21; LVC: 345.50
SSD: 385.50
DESIGN SPEED: 50 MPH

BVCS: 458+63.72
BVCE: 721.49

EVCS: 462+09.22
EVCE: 707.54

-6.09%

-1.99%

464+09.83
703.559

C.L. EXIST GRADE

761.90 758.86 755.82 752.77 749.73 746.68 743.64 740.59 737.55 734.51 731.46 728.42 725.37 722.33 719.36 716.68 714.30 712.21 710.42 708.93 707.73 706.73 705.74 704.75 703.75

452+00 452+50 453+00 453+50 454+00 454+50 455+00 455+50 456+00 456+50 457+00 457+50 458+00 458+50 459+00 459+50 460+00 460+50 461+00 461+50 462+00 462+50 463+00 463+50 464+00 464+50 465+00 465+50 466+00 466+50 467+00

FILE: _PLAN AND PROFILE.DWG	WASHINGTON COUNTY	PROJECT NUMBER: STP-S-C092(128)--5E-92	SHEET NUMBER D.14

WASHINGTON COUNTY GPS MONUMENTS FOR PROJECT CONTROL

PROJECT: STP-S-C092(128)--5E-92

COORDINATE SYSTEM: IOWA STATE PLANE COORDINATE SYSTEM
HORIZONTAL DATUM: NAD 83(2011)
ZONE:IOWA STATE PLANE SOUTH ZONE (1402)
GEOID: GEOID12A (CONUS)
VERTICAL DATUM: NAVD88
UNITES: US SURVEY FOOT

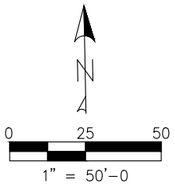
GPS CONTROL MONUMENTS

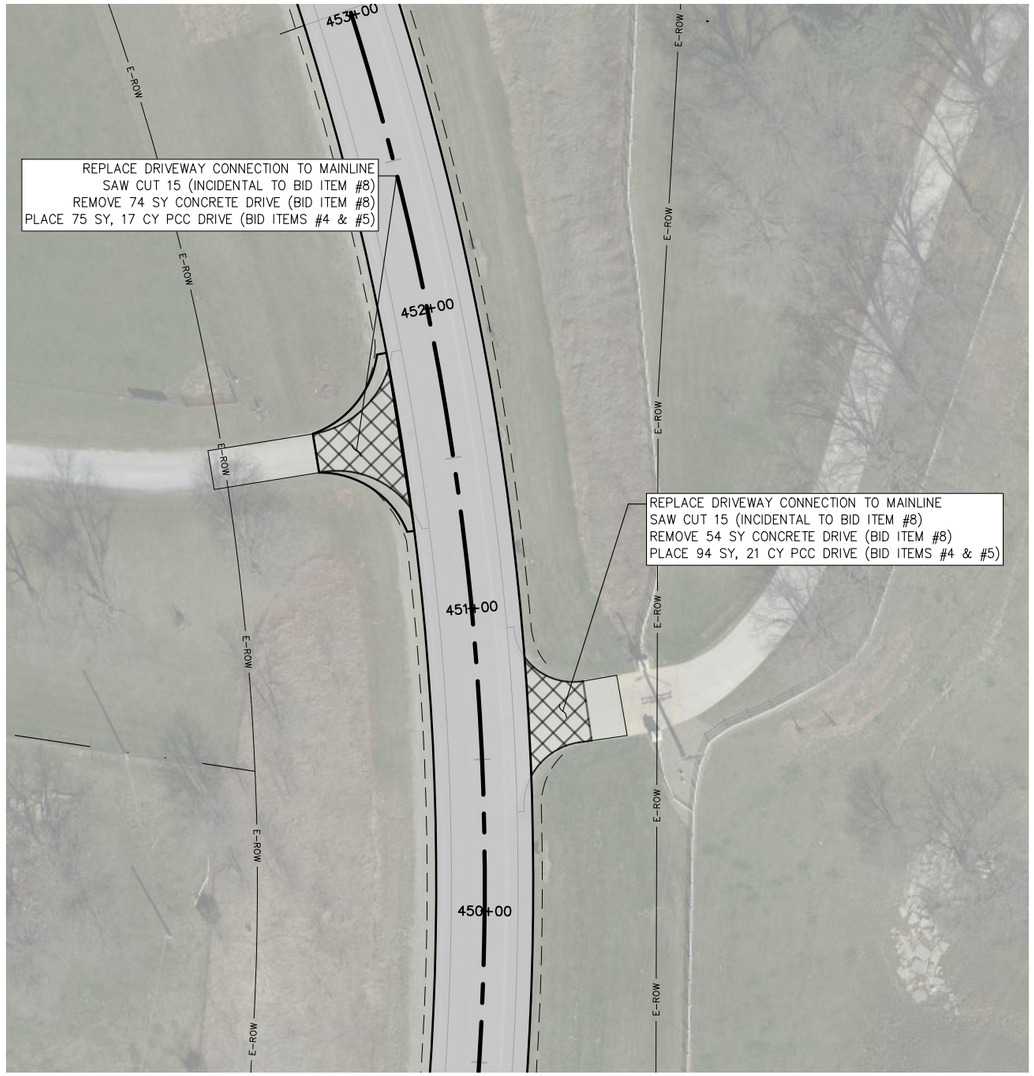
		IOWA SOUTH ZONE (1402)		NAD 82(2011)				
POINT NAME	DESIGNATION	NORTHING	EASTING	ELEVATION	LATITUDE	LONGITUDE	GEOID	COMBINATION SCALE FACTOR
27	96-027	539050.087	2099590.704	738.250	N41°28'02.65398"	W91°49'29.07326"	GEOID12A	0.9999290495
28	96-028	539114.209	2092496.179	722.480	N41°28'04.62713"	W91°51'01.23179"	GEOID12A	0.9999298444
109	96-109	533842.355	2108134.392	762.930	N41°27'09.56915"	W91°47'37.20972"	GEOID12A	0.9999267135
112	96-112	523117.726	2087641.205	805.920	N41°25'27.51002"	W91°52'08.93384"	GEOID12A	0.9999226133
113	96-113	522221.536	2111324.809	779.800	N41°25'14.15391"	W91°46'58.33163"	GEOID12A	0.9999236163
118	96-118	512930.684	2108708.543	789.010	N41°23'42.88338"	W91°47'35.05986"	GEOID12A	0.9999215851

CENTERLINE ALIGNMENT FOR MACHINE CONTROL

* A CENTERLINE ALIGNMENT HAS BEEN PROVIDED WITH THE CONTRACT DOCUMENTS IN XML FORMAT.
* THE CENTERLINE WAS CREATED AS A "BEST FIT" LINE THAT TIGHTLY ALIGNS WITH THE ROADWAY CENTERLINE AS CONSTRUCTED.
* DATA WAS COLLECTED FOR THE CENTERLINE USING A GPS ROVER AND THE IOWA REAL-TIME NETWORK (IaRTN).

SURVEY MONUMENTS

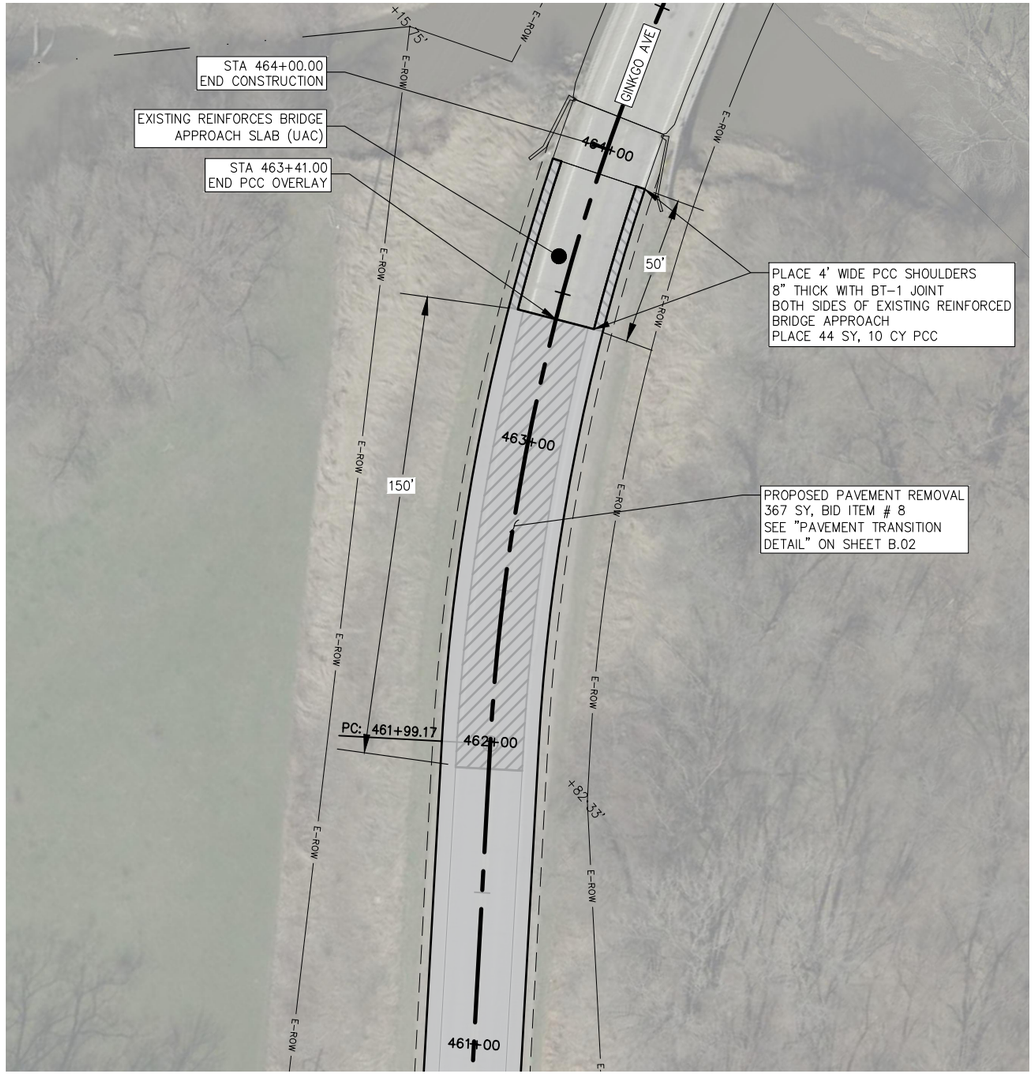


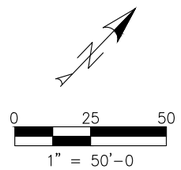


DRIVES AT 450+63 & 451+59					
PCC		HMA		GRAN. SURF.	
(SY)	(CY)	D (IN.)	(TONS)	W. (FT.)	(TONS)
94	21	--	--	--	--
75	17	--	--	--	--

NOTE: GRANULAR SHOULDERS INCLUDED WITH MAINLINE AS A PART OF BID ITEM #2

DRIVEWAY DETAIL FOR 450+63 & 451+59





PAVED SHOULDERS AT BRIDGE APPROACH					
PCC		HMA		GRAN. SURF.	
(SY)	(CY)	D (IN.)	(TONS)	W. (FT.)	(TONS)
44	10	--	--	--	--

NOTES:
* PCC IN THIS TABLE IS FOR 8" PC SHOULDERS PROPOSED FOR THE BRIDGE APPROACH
* REMAINING PCC QUANTITIES ARE INCLUDED IN THE MAINLINE PCC QUANTITIES
* GRANULAR SURFACING INCLUDED IN MAINLINE GRANULAR SHOULDER QUANTITIES.

TRANSITION DETAIL AT BRIDGE TIE-IN