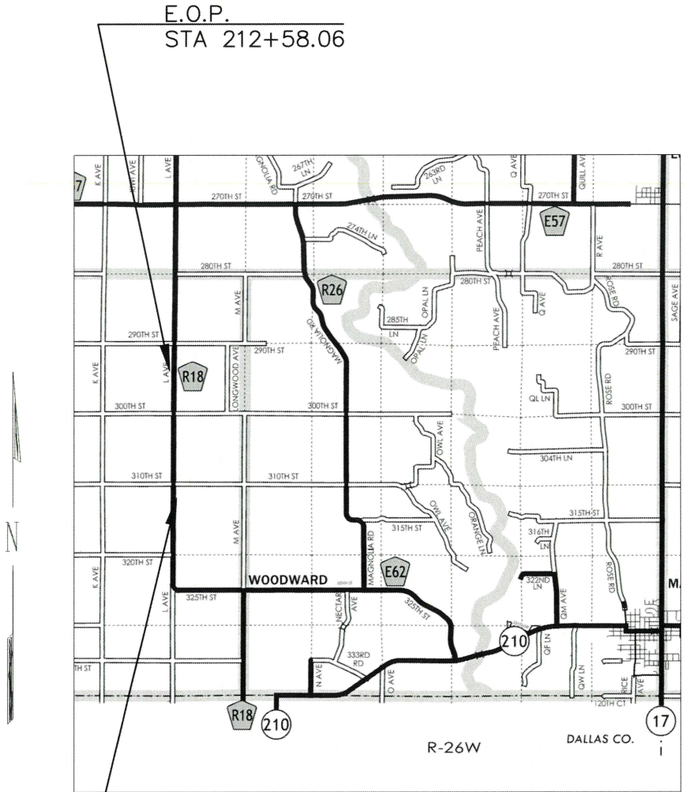
BOONE COUNTY FM-C008(91)-55-08
PCC PAVEMENT - REPLACE
Letting Date NOVEMBER 17, 2026

STANDARD ROAD PLANS

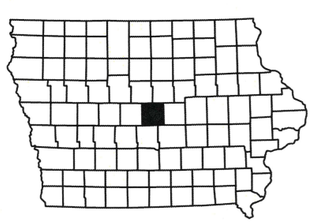
STANDARD ROAD PLANS ARE LISTED ON SHEET C.2

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



610 V.P.D. (2023)

Location Map
No Scale



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

IOWA | DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

FARM-TO-MARKET SYSTEM
BOONE COUNTY
FM-C008(91)-55-08
PCC PAVEMENT - REPLACE

ON L AVE, FROM 500' S. OF 310TH ST N. 1.5 MILES TO 0.5 MILES NORTH OF 300TH ST.

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS.

Scales: As Noted

INDEX OF SHEETS

No.	Description
A.1	TITLE SHEET INCLUDING LOCATION MAP, MILEAGE SUMMARY AND STANDARD PLANS LISTING.
B.1 - B.2	TYPICAL CROSS SECTIONS
C.1	ESTIMATED PROJECT QUANTITIES, ESTIMATE REFERENCE NOTES
C.2 - C.4	PROJECT TABULATIONS
D.1 - D.7	PLAN AND PROFILE
J.1	TRAFFIC CONTROL PLAN
L.1 - L.2	INTERSECTION PAVING DETAILS
RC.1	POLLUTION PREVENTION PLAN
W.1 - W.20	CROSS SECTIONS

MILEAGE SUMMARY

Div.	Location	Lin. Ft.	Miles
1	B.O.P. 126+00.00 TO E.O.P. 212+58.06	8658.06	1.64

UTILITY CONTACTS

COMPANY	CONTACT NAME	CONTACT PHONE	CONTACT EMAIL
XENIA RURAL WATER DISTRICT	JUSTIN CARTER	515-979-0875	JCARTER@XENIAWATER.ORG
MINBURN TELECOM ILEC	WESTON LUCHT	515-438-2200	WESTONL@MINBURNCOMM.COM
ALLIANT ENERGY	GRANT CLEVELAND	515-675-9905	GRANTCLEVELAND@ALLIANTENERGY.COM
NORTHERN NATURAL GAS	DAN AKERS	515-363-0247	DANIEL.AKERS@NNGCO.COM

Erich Kretzinger
Scott Longhorn
Approved
Board of Supervisors

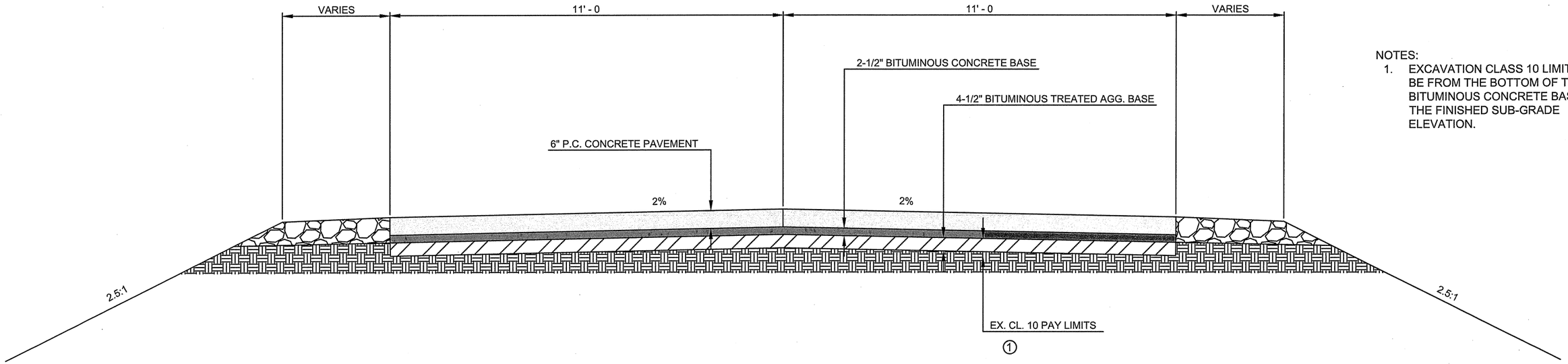
LICENSED PROFESSIONAL ENGINEER
JONATHAN R. BULLOCK
27142
IOWA

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.

Jonathan Bullock 5/12/26
Jonathan R. Bullock *Date*

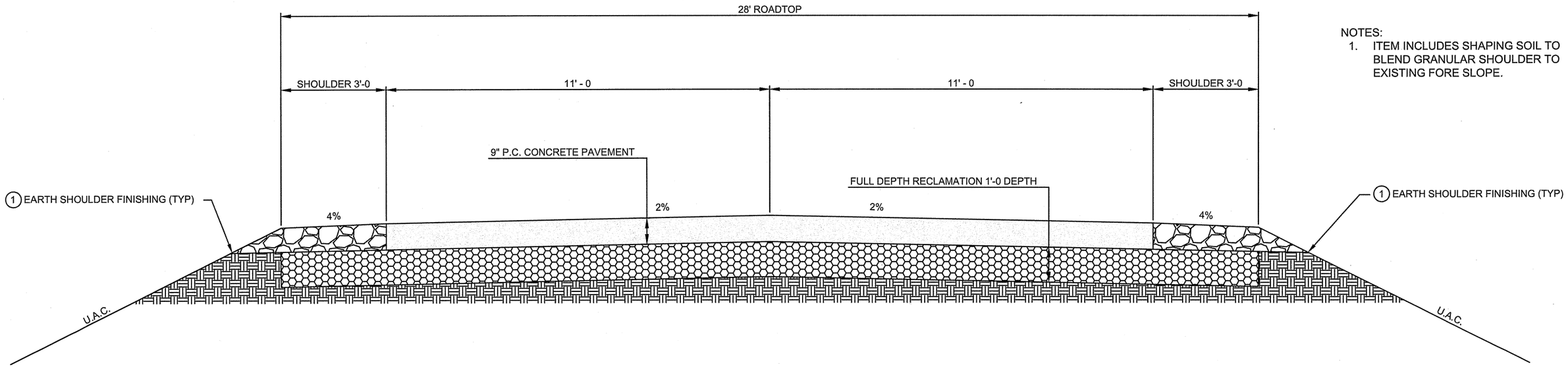
My license renewal date is Dec. 31, 2026

Pages or sheets covered by this seal: A.1,B.1,B.2 C.1–C.4,D.1–D.7,J.1,L.1–L.2,RC.1,W.1–W.20



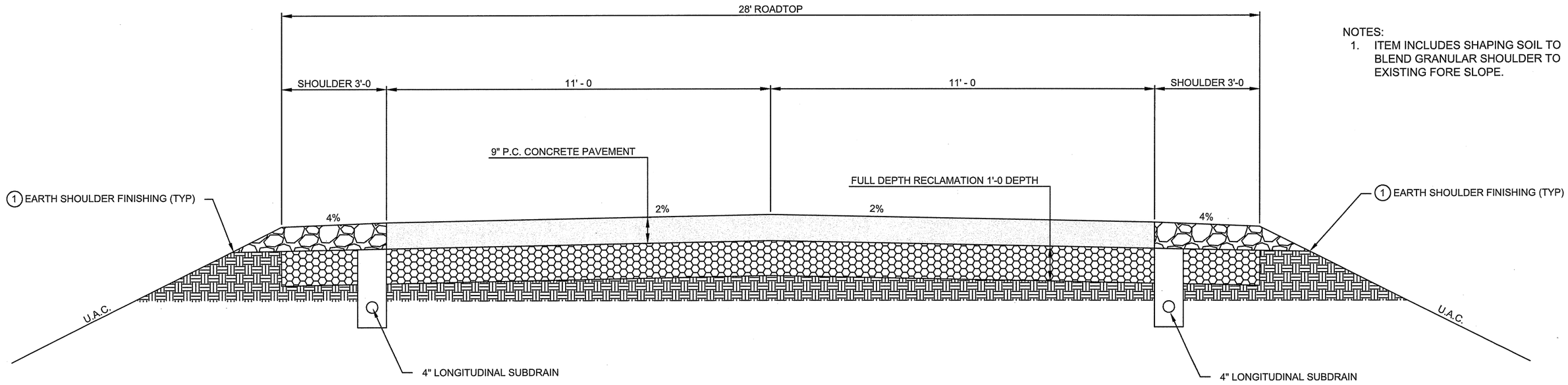
NOTES:
1. EXCAVATION CLASS 10 LIMITS WILL BE FROM THE BOTTOM OF THE BITUMINOUS CONCRETE BASE TO THE FINISHED SUB-GRADE ELEVATION.

EXISTING PAVEMENT R-18
STA. 126+00 - 212+58.06



NOTES:
1. ITEM INCLUDES SHAPING SOIL TO BLEND GRANULAR SHOULDER TO EXISTING FORE SLOPE.

PROPOSED PAVEMENT R-18
STA. 126+00.00 - 151+50.00
STA. 184+00.00 - 212+58.06



NOTES:
1. ITEM INCLUDES SHAPING SOIL TO BLEND GRANULAR SHOULDER TO EXISTING FORE SLOPE.

PROPOSED PAVEMENT R-18
STA. 151+50 - 184+00

4/30/2025

ESTIMATED ROADWAY QUANTITIES

Item No.	Item Code	Item	Unit	Total
1	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	429
2	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	2792
3	2116-0000100	FULL DEPTH RECLAMATION	SY	27856
4	2116-0000300	MINERAL STABILIZING AGENT	TON	940
5	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	3174
6	2123-7450020	SHOULDER FINISHING, EARTH	STA	173.2
7	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.	SY	22084
8	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1
9	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH	25838
10	2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	16563
11	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	6500
12	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	16
13	2510-6745850	REMOVAL OF PAVEMENT	SY	21164
14	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1
15	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	147.7
16	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	147.7
17	2528-2518000	SAFETY CLOSURE	EACH	6
18	2528-8445110	TRAFFIC CONTROL	LS	1
19	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	14
20	2533-4980005	MOBILIZATION	LS	1
21	2601-2634100	MULCHING	ACRE	3.0
22	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	1.5
23	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	1.5
24	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	SEE PROPOSAL
25	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	SEE PROPOSAL

6/2/2023

ESTIMATE REFERENCE INFORMATION

Line No.	Item No.	Item Code	Description
	1	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW
			See sheet B.1 for pay limits. See tab BC-100.
	2	2102-2710090	EXCAVATION, CLASS 10, WASTE
			All waste must be removed from the project site. See sheet B.1 for pay limits. See tab BC-100.
	3	2116-0000100	FULL DEPTH RECLAMATION
			12 inch depth is required. Includes 26936 SY for mainline and 920 SY for side road intersections. See sheets L.1 and L.2. See typical section on sheet B.1. Full depth reclamation shall be used on intersections that do not pass a proof roll.
	4	2116-0000300	MINERAL STABILIZING AGENT
			At current moisture contents (average of 5 borings 13%), 6% cement or 4% fly ash treatment be shall be used. 6% and 125 pcf dry density used for estimating purposes.
	5	2121-7425020	GRANULAR SHOULDERS, TYPE B
			Includes 3000 TN for mainline, 74 TN for side road intersections, and 100 TN for driveways.
	6	2123-7450020	SHOULDER FINISHING, EARTH
			Item includes shaping soil to blend granular shoulder to existing foreslope. Any fill material needed for this item should come from the excavation, class 10, waste. See sheet B.1
	7	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.
			Transverse joints shall be type CD at 15 ft intervals at 0 degree skew (see detail B for sawcut and joint filler information). Longitudinal joints shall be type L-2 (see detail D-3 for sawcut and joint filler information). The time for opening shall be determined by maturity method. Subgrade shall be wet prior to concrete placement. Contractor to provide certified plant inspection. See tab 100-24.
	8	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES
	9	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)
	10	2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)
	11	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.
			See tab 104-9A
	12	2502-8221303	SUBDRAIN OUTLET, DR-303
			See tab 104-9A
	13	2510-6745850	REMOVAL OF PAVEMENT
			Refer to Tab 110-1. See tab 102-5 for existing pavement information.
	14	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY
			Boone County shall be responsible for land survey monument preservation. Boone County has provided the primary control monuments near the project shown on the D sheets. Boone County shall provide the contractor with a XML centerline alignment and profile shown in the plan and profile sheets. The contractor shall verify the elevations at the tie in points and adjust as necessary for smooth transitions. The contractor shall be responsible for establishing all secondary control needed for the project. If the contractor elects to use string line, the contractor shall be responsible for providing paving hubs at 50 ft intervals on straight tangents. If the contractor elects to use automated machine control, the contractor will also prepare the surface model as stated in the standard specifications. See tab 101-16 for alignment coordinates.
	15	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED
			See tab 108-22.
	16	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS
			See tab 108-22.
	17	2528-2518000	SAFETY CLOSURE
			See tab 108-13A
	18	2528-8445110	TRAFFIC CONTROL
			See J sheets for detour information.
	19	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)
			Contractor shall erect PDMS boards seven (7) calandar days in advance of road closure. A total of two boards will be required for the project, one located near the beginning of the project and one located near the end of the project.
	20	2533-4980005	MOBILIZATION
	21	2601-2634100	MULCHING
	22	2601-2636043	SEEDING AND FERTILIZING (RURAL)
	23	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING
	24	2602-0010010	MOBILIZATIONS, EROSION CONTROL
	25	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL

GENERAL NOTES:

THE CONTRACTOR SHALL ERECT PDMS BOARDS SEVEN (7) CALENDAR DAYS IN ADVANCE OF ROAD CLOSURE.

CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING DOOR HANGER CONSTRUCTION NOTIFICATION TO ALL AFFECTED RESIDENTS 5 DAYS PRIOR TO ANY ROAD CLOSURES. THE DOOR HANGER SHALL INCLUDE THE FOLLOWING INFORMATION.

- PRIME CONTRACTORS NAME
- CONTRACTORS 24-HOUR CONTACT WITH PHONE NUMBER
- ANTICIPATED SCHEDULE WITH START DATE AND ANTICIPATED DURATION
- DAILY WORK HOURS, INCLUDING START TIME AND FINISH TIME
- INCLUDE APPROVED STAGING PLAN

A COPY OF THE DOOR HANGER SHALL BE PROVIDED TO THE ENGINEER.

CONTRACTOR SHALL CONTINUALLY INFORM ADJACENT PROPERTY/HOMEOWNERS OF PROJECT SCHEDULE IN REGARDS TO ACCESS.

BC-100

SUMMARY OF EARTHWORK QUANTITIES

EXCAVATION TYPE	RAW CUT	RAW FILL	WASTE	USABLE CUT	SHRINKAGE FACTOR	FILL +30% SHRINKAGE	PAYMENT QUANTITY
	CY	CY	CY	CY		CY	CY
	3,221	330	2,792	2,990	30%	429	
EXCAVATION, CLASS 10, ROADWAY AND BORROW							429
EXCAVATION, CLASS 10, WASTE							2,792
TOTAL			2,792	3,221			

WASTE MATERIAL SHALL BE THE PROPERTY OF THE CONTRACTOR. AT CONTRACTOR'S OPTION, WASTE MATERIAL MAY BE HAULED TO BOONE COUNTY'S SITE LOCATED AT 1222 G AVE. OGDEN, IA 50212. CONTRACTOR MAY WASTE MATERIAL ONSITE AS APPROVED BY THE ENGINEER.

110-1
4/5/2024

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*	Remarks
				SY	LF	
126+00.00	212+58.06	L/R	PCC	21164.1	44.0	EOP

108-13A
10-18-22

SAFETY CLOSURES

Refer to Section 2528 of the Standard Specifications

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
126+00.00	1		BOP
131+29.75	1		310TH ST EAST
131+29.75	1		310TH ST WEST
184+42.34	1		300TH ST EAST
184+42.34	1		300TH ST WEST
212+58.06	1		EOP

105_04
10/21/25

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
DR-303	10-17-17	Subdrains (Longitudinal)
TC-252	10-21-25	Routes Closed to Traffic
PV-101	1-1-26	Joints
PM-110	4-16-24	Line Types
DR-305	04-19-22	Subdrain Outlets (Standard Subdrain, Pressure Release and Special)

108_22
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.
**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	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY4 Factored (STA)	DCY4 Factored (STA)	ELW4 Factored (STA)	NPY4 Factored (STA)	Remarks
	R18	126+00.00	126+60.00	NB	Waterborne/Solvent Paint		X		Yes	0.1	0.1				
	R18	126+60.00	135+50.00	NB	Waterborne/Solvent Paint		X		Yes	7.5				7.5	
	R18	135+50.00	138+30.00	NB	Waterborne/Solvent Paint		X		Yes	0.5	0.5				
	R18	138+30.00	144+22.00	NB	Waterborne/Solvent Paint		X		Yes	4.9				4.9	
	R18	144+22.00	145+55.00	SB	Waterborne/Solvent Paint		X		Yes	1.8		1.8			
	R18	145+55.00	150+35.00	NB	Waterborne/Solvent Paint		X		Yes	4.0				4.0	
	R18	150+35.00	153+75.00	NB	Waterborne/Solvent Paint		X		Yes	0.6	0.6				
	R18	153+75.00	160+75.00	SB	Waterborne/Solvent Paint		X		Yes	5.9				5.9	
	R18	160+75.00	212+58.06	NB	Waterborne/Solvent Paint		X		Yes	8.8	8.8				
	R18	126+00.00	212+58.06	NB	Waterborne/Solvent Paint			X	Yes	58.0			58.0		
	R18	126+00.00	212+58.06	NB	Waterborne/Solvent Paint	X			Yes	58.0			58.0		

101_16
10/25/24

ALIGNMENT COORDINATES

Line No.	Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
1.0	R18	E 1/4 23-82-27	104+64.78	-620.45	10045.72															
2.0	R18	NE 23-82-27	131+29.75	2044.53	10042.02															
3.0	R18	E 1/4 14-82-27	157+86.10	4700.88	10039.95															
4.0	R18	NE 14-82-27	184+42.34	7357.11	10038.15															
5.0	R18	E 1/4 11-82-27	210+86.89	10001.66	10040.10															
6.0	R18	NE 11-82-27	237+29.12	12643.82	10060.96															

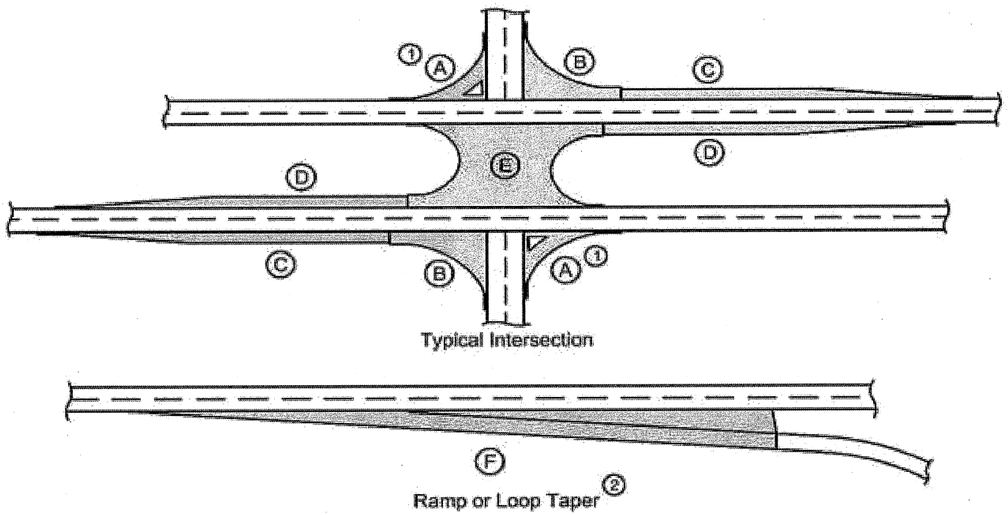
102_05
9/29/23

EXISTING PAVEMENT

Line No.	County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Durability Class	Reinforcement Type	Remarks
	Boone	R18	Both			1977		RS-3468(1)--61-08	PCC	6.0	ASPHALT	2.5	AGGREGATE	4.5			Halletts, Jenkins Boone				

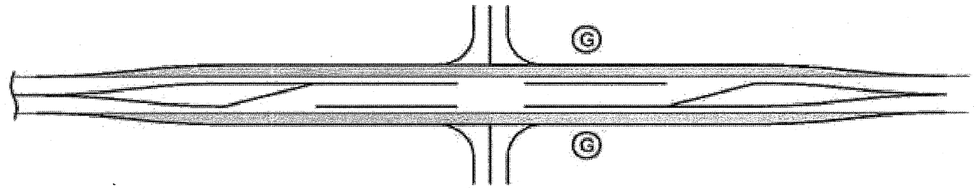
100_24
10/15/24

PCC PAVEMENT

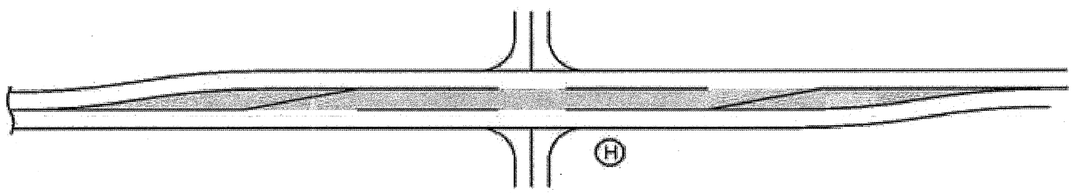


Typical Intersection

Ramp or Loop Taper (2)



Channelized Intersection
Widen Existing Roadway



Channelized Intersection
Reconstructed Roadway

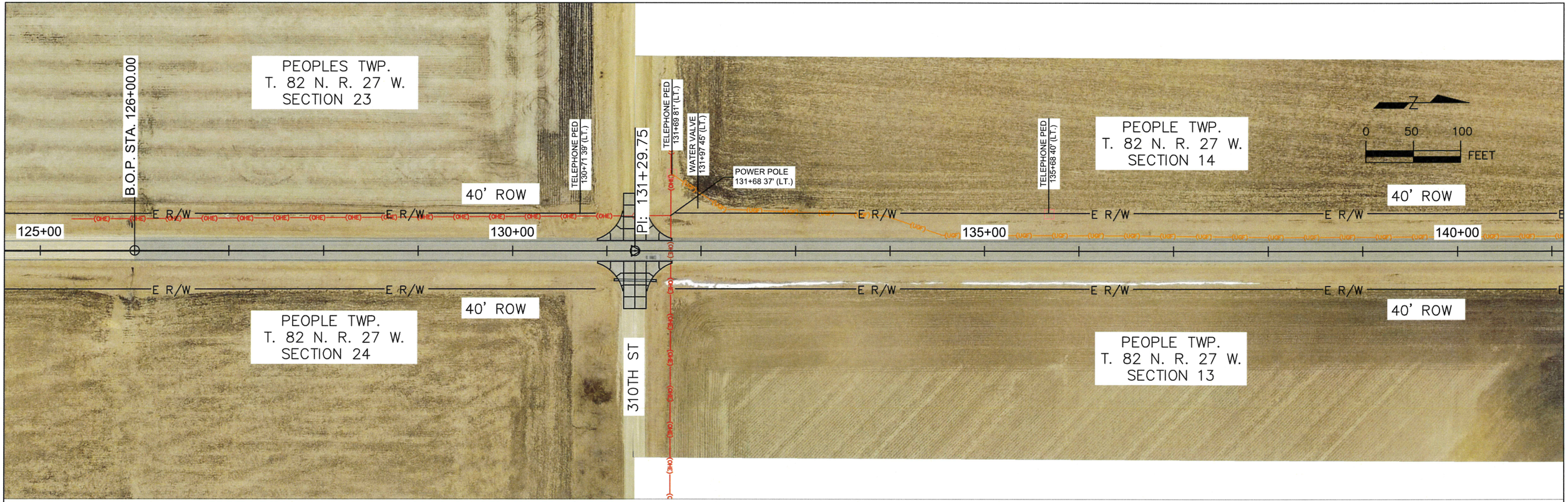
(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

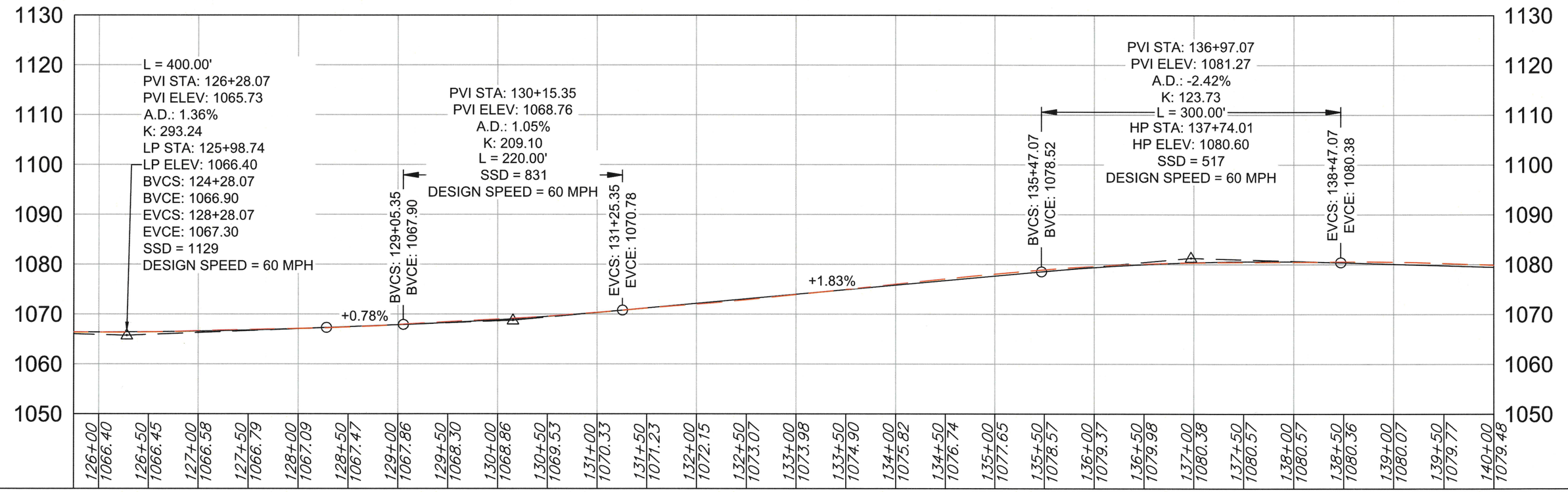
Line No.	Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E (SY)(3)	Area F(2) (SY)(3)	Area G (SY)(3)	Area H (SY)(3)	Area by Thickness - Thickness(IN)	Area by Thickness - Area (SY)	Polymer Grid (SY)	Special Backfill (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Remarks
1.0	R18	Both	126+00.00	212+58.06	22.0	8658.06	21164.00									9.0	21164.0					
2.0	310th St (east)	Both	131+29.75	131+29.75			207.00									9.0	207.0					See sheet L.1
3.0	310th St (west)	Both	131+29.75	131+29.75			207.00									9.0	207.0					See sheet L.1
4.0	300th St (east)	Both	184+42.34	184+42.34			253.00									9.0	253.0					See sheet L.2
5.0	300th St (west)	Both	184+42.34	184+42.34			253.00									9.0	253.0					See sheet L.2

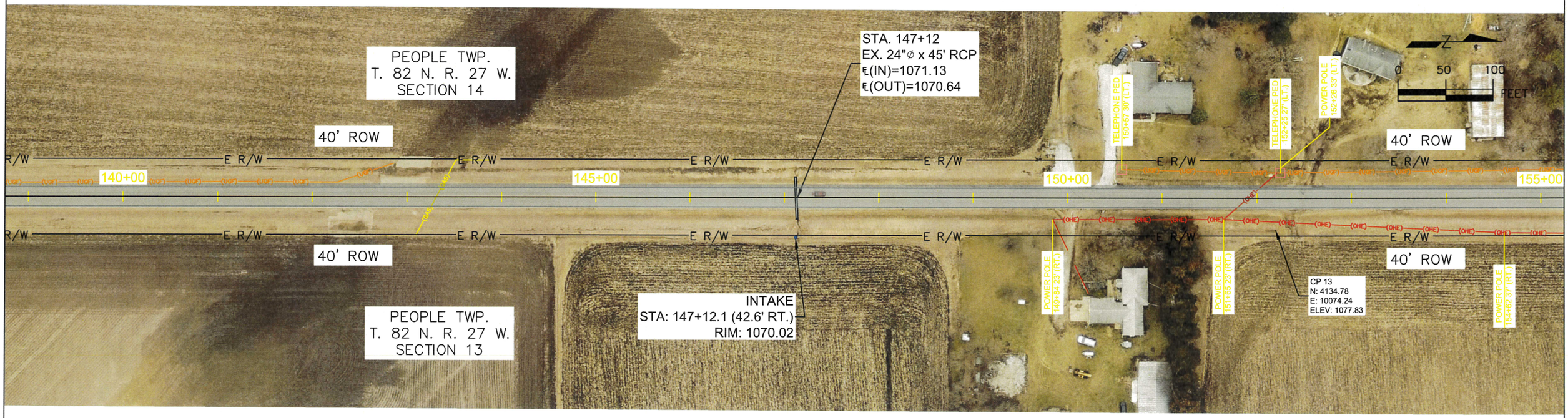
LONGITUDINAL SUBDRAIN SHOULDER

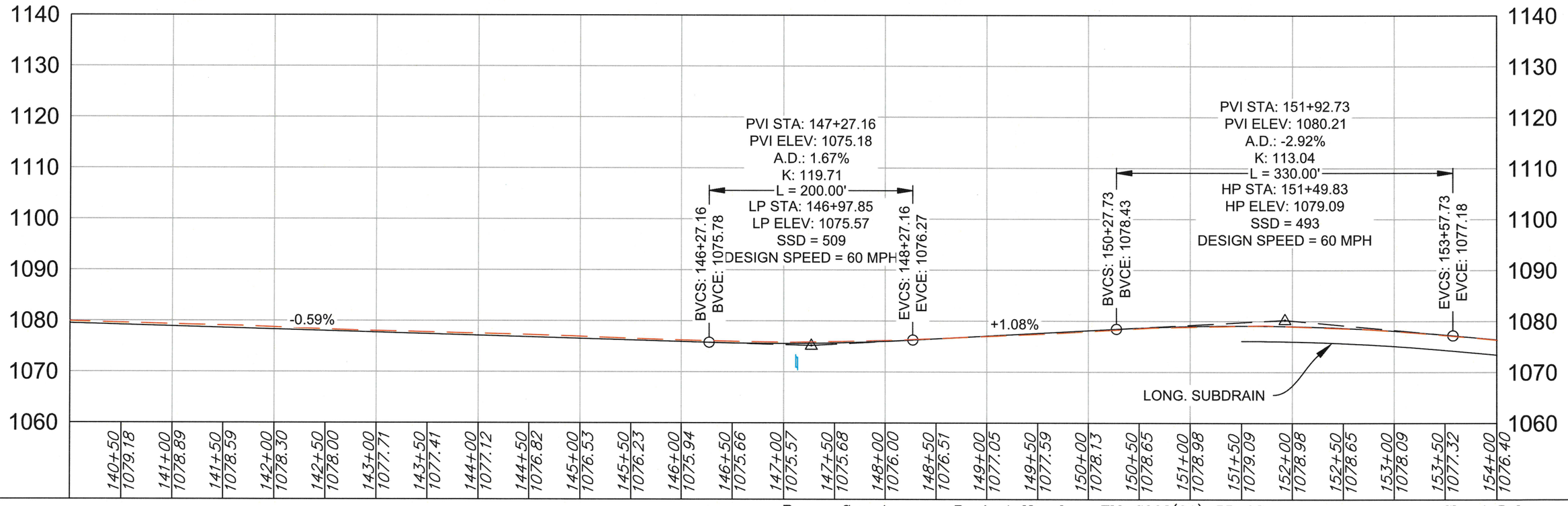
* Not a bid item.

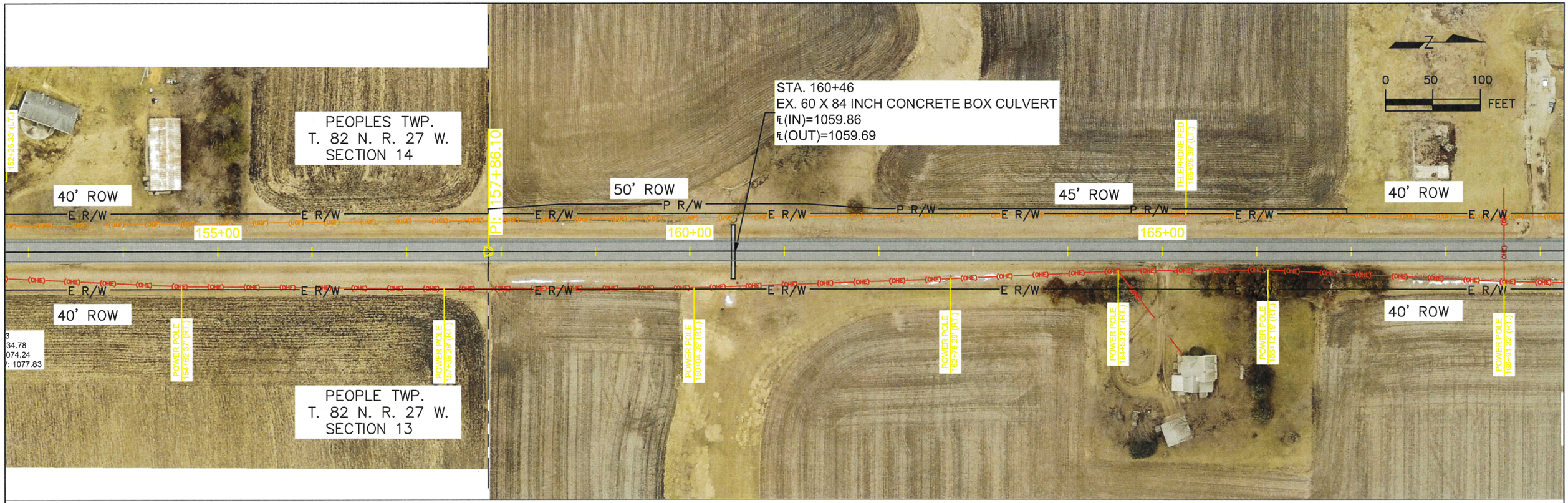
Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
1.0	R18	151+50.00	155+67.00	Right	36.0	4.0	417.0	155+67.00	DR-303	32.2	
2.0	R18	151+50.00	155+67.00	Left	36.0	4.0	417.0	155+67.00	DR-303	32.2	
3.0	R18	155+67.00	159+84.00	Right	36.0	4.0	417.0	159+84.00	DR-303	32.2	
4.0	R18	155+67.00	159+84.00	Left	36.0	4.0	417.0	159+84.00	DR-303	32.2	
5.0	R18	159+84.00	164+00.00	Right	36.0	4.0	416.0	159+84.00	DR-303	32.1	
6.0	R18	159+84.00	164+00.00	Left	36.0	4.0	416.0	159+84.00	DR-303	32.1	
7.0	R18	164+00.00	167+94.00	Right	36.0	4.0	394.0	164+00.00	DR-303	30.4	
8.0	R18	164+00.00	167+94.00	Left	36.0	4.0	394.0	164+00.00	DR-303	30.4	
9.0	R18	167+94.00	171+88.00	Right	36.0	4.0	394.0	167+94.00	DR-303	30.4	
10.0	R18	167+94.00	171+88.00	Left	36.0	4.0	394.0	167+94.00	DR-303	30.4	
11.0	R18	171+88.00	175+84.00	Right	36.0	4.0	396.0	175+84.00	DR-303	30.6	
12.0	R18	171+88.00	175+84.00	Left	36.0	4.0	396.0	175+84.00	DR-303	30.6	
13.0	R18	175+84.00	179+92.00	Right	36.0	4.0	408.0	175+84.00	DR-303	31.5	
14.0	R18	175+84.00	179+92.00	Left	36.0	4.0	408.0	175+84.00	DR-303	31.5	
15.0	R18	179+92.00	184+00.00	Right	36.0	4.0	408.0	179+92.00	DR-303	31.5	
16.0	R18	179+92.00	184+00.00	Left	36.0	4.0	408.0	179+92.00	DR-303	31.5	

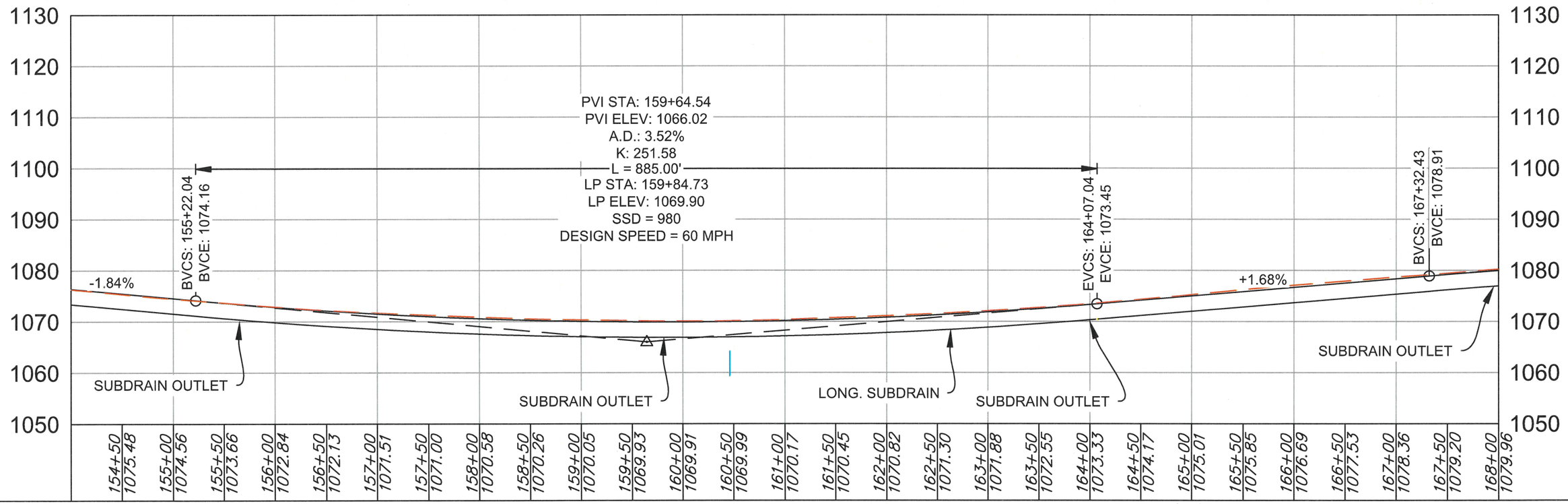

PEOPLES TWP.
T. 82 N. R. 27 W.
SECTION 23
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 24
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 14
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 13
B.O.P. STA. 126+00.00
PI: 131+29.75
310TH ST
40' ROW
E R/W
125+00
130+00
135+00
140+00
TELEPHONE PED
130+77 39' (LT.)
TELEPHONE PED
131+69 81' (LT.)
WATER VALVE
131+97 45' (LT.)
POWER POLE
131+68 37' (LT.)
TELEPHONE PED
135+68 40' (LT.)
N
0 50 100
FEET

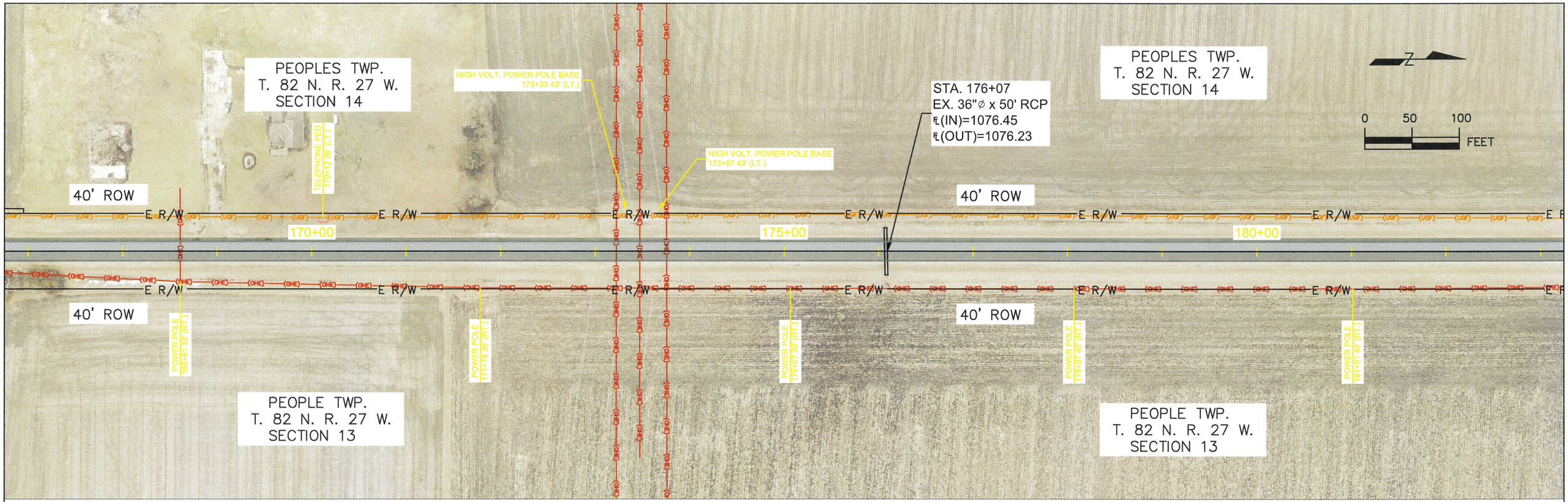

L = 400.00'
PVI STA: 126+28.07
PVI ELEV: 1065.73
A.D.: 1.36%
K: 293.24
LP STA: 125+98.74
LP ELEV: 1066.40
BVCS: 124+28.07
BVCE: 1066.90
EVCS: 128+28.07
EVCE: 1067.30
SSD = 1129
DESIGN SPEED = 60 MPH
PVI STA: 130+15.35
PVI ELEV: 1068.76
A.D.: 1.05%
K: 209.10
L = 220.00'
SSD = 831
DESIGN SPEED = 60 MPH
PVI STA: 136+97.07
PVI ELEV: 1081.27
A.D.: -2.42%
K: 123.73
L = 300.00'
HP STA: 137+74.01
HP ELEV: 1080.60
SSD = 517
DESIGN SPEED = 60 MPH
BVCS: 129+05.35
BVCE: 1067.90
EVCS: 131+25.35
EVCE: 1070.78
BVCS: 135+47.07
BVCE: 1078.52
EVCS: 138+47.07
EVCE: 1080.38
+0.78%
+1.83%
1130
1120
1110
1100
1090
1080
1070
1060
1050
126+00 1066.40
126+50 1066.45
127+00 1066.58
127+50 1066.79
128+00 1067.09
128+50 1067.47
129+00 1067.86
129+50 1068.30
130+00 1068.86
130+50 1069.53
131+00 1070.33
131+50 1071.23
132+00 1072.15
132+50 1073.07
133+00 1073.98
133+50 1074.90
134+00 1075.82
134+50 1076.74
135+00 1077.65
135+50 1078.57
136+00 1079.37
136+50 1079.98
137+00 1080.38
137+50 1080.57
138+00 1080.57
138+50 1080.36
139+00 1080.07
139+50 1079.77
140+00 1079.48

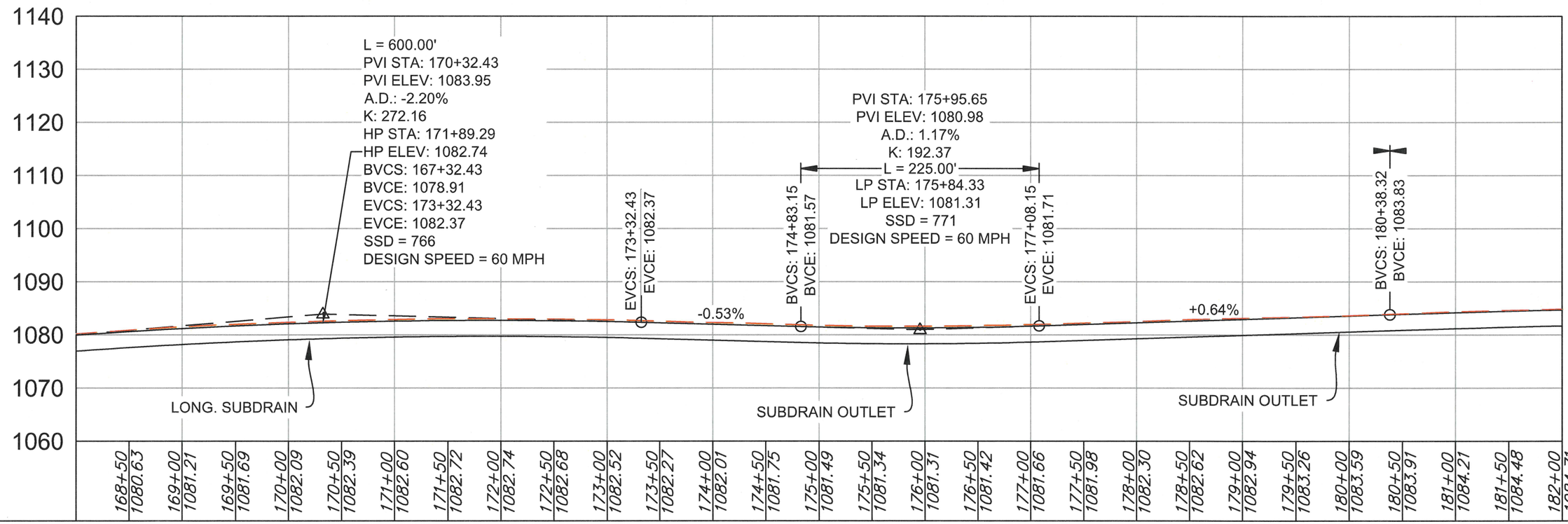

PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 14
40' ROW
STA. 147+12
EX. 24"∅ x 45' RCP
℄(IN)=1071.13
℄(OUT)=1070.64
TELEPHONE PED
150+57.30' (LT.)
TELEPHONE PED
152+25.27' (LT.)
POWER POLE
152+26.33' (LT.)
0
50
100
FEET
40' ROW
E R/W
140+00
145+00
150+00
155+00
40' ROW
INTAKE
STA: 147+12.1 (42.6' RT.)
RIM: 1070.02
POWER POLE
149+84.23' (RT.)
POWER POLE
151+65.23' (RT.)
CP 13
N: 4134.78
E: 10074.24
ELEV: 1077.83
POWER POLE
154+62.37' (RT.)
40' ROW
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 13

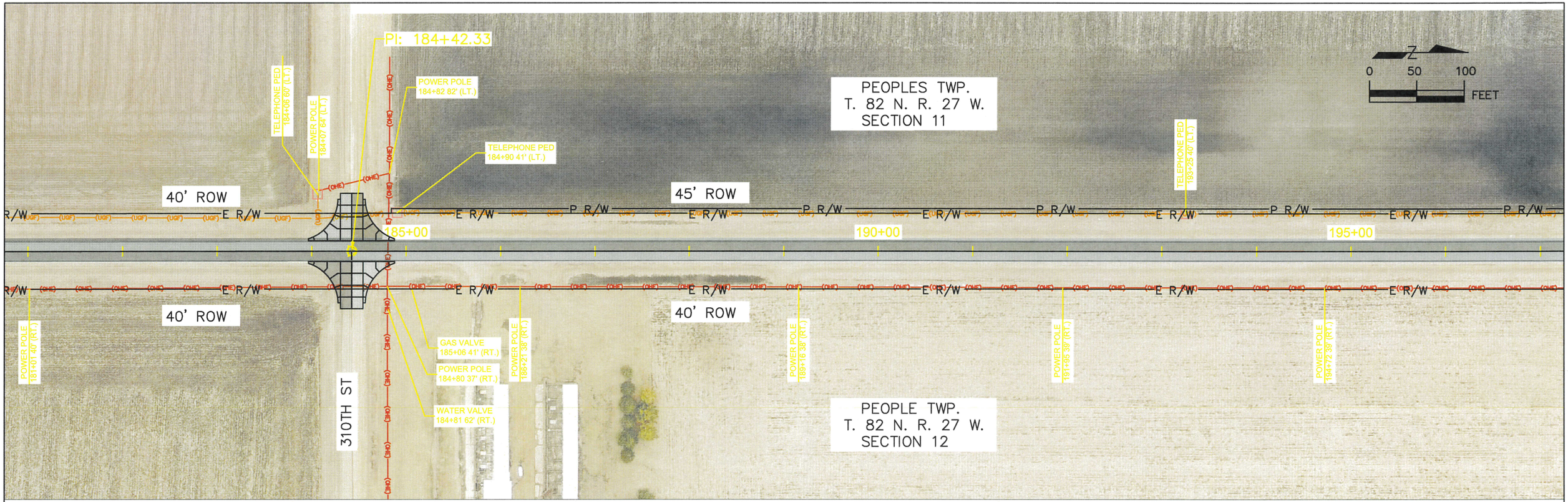

1140
1130
1120
1110
1100
1090
1080
1070
1060
PVI STA: 147+27.16
PVI ELEV: 1075.18
A.D.: 1.67%
K: 119.71
L = 200.00'
LP STA: 146+97.85
LP ELEV: 1075.57
SSD = 509
DESIGN SPEED = 60 MPH
BVCS: 146+27.16
BVCE: 1075.78
EVCS: 148+27.16
EVCE: 1076.27
-0.59%
+1.08%
PVI STA: 151+92.73
PVI ELEV: 1080.21
A.D.: -2.92%
K: 113.04
L = 330.00'
HP STA: 151+49.83
HP ELEV: 1079.09
SSD = 493
DESIGN SPEED = 60 MPH
BVCS: 150+27.73
BVCE: 1078.43
EVCS: 153+57.73
EVCE: 1077.18
LONG. SUBDRAIN
140+50 1079.18
141+00 1078.89
141+50 1078.59
142+00 1078.30
142+50 1078.00
143+00 1077.71
143+50 1077.41
144+00 1077.12
144+50 1076.82
145+00 1076.53
145+50 1076.23
146+00 1075.94
146+50 1075.66
147+00 1075.57
147+50 1075.68
148+00 1076.00
148+50 1076.51
149+00 1077.05
149+50 1077.59
150+00 1078.13
150+50 1078.65
151+00 1078.98
151+50 1079.09
152+00 1078.98
152+50 1078.65
153+00 1078.09
153+50 1077.32
154+00 1076.40

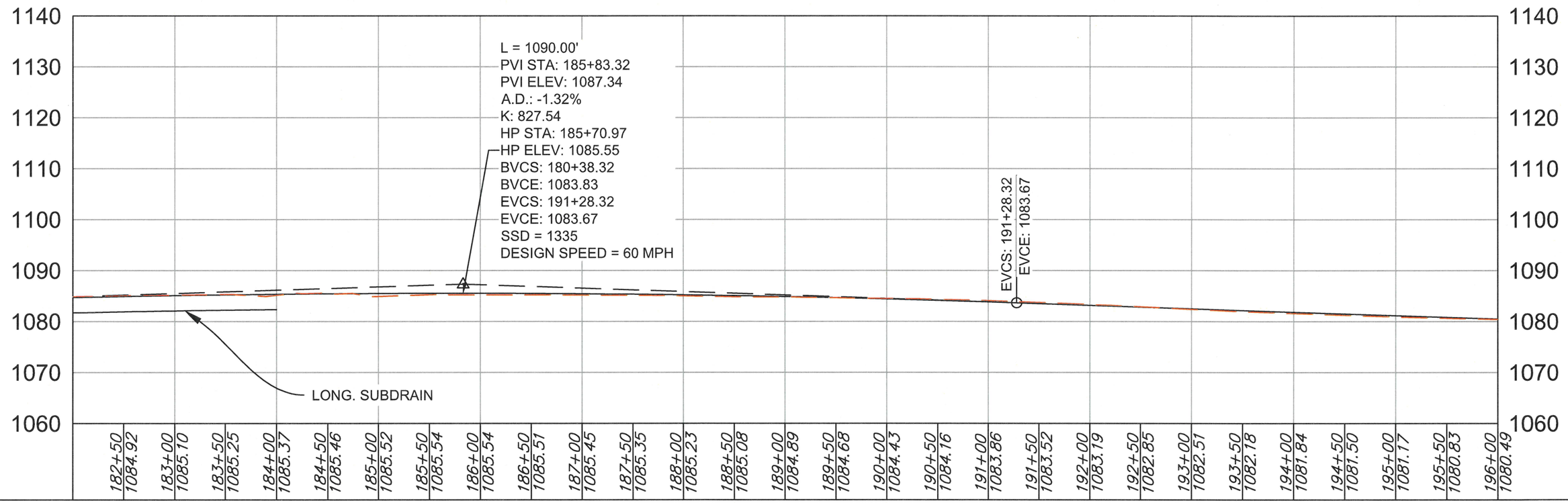

PEOPLES TWP.
T. 82 N. R. 27 W.
SECTION 14
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 13
STA. 160+46
EX. 60 X 84 INCH CONCRETE BOX CULVERT
℄(IN)=1059.86
℄(OUT)=1059.69
PI: 157+86.10
40' ROW
50' ROW
45' ROW
40' ROW
40' ROW
E R/W
P R/W
155+00
160+00
165+00
POWER POLE 154+82.37' (RT.)
POWER POLE 157+39.38' (RT.)
POWER POLE 160+04.38' (RT.)
POWER POLE 162+76.29' (RT.)
POWER POLE 164+53.21' (RT.)
POWER POLE 166+12.19' (RT.)
POWER POLE 168+61.32' (RT.)
TELEPHONE PED 165+25.39' (LT.)
0 50 100
FEET

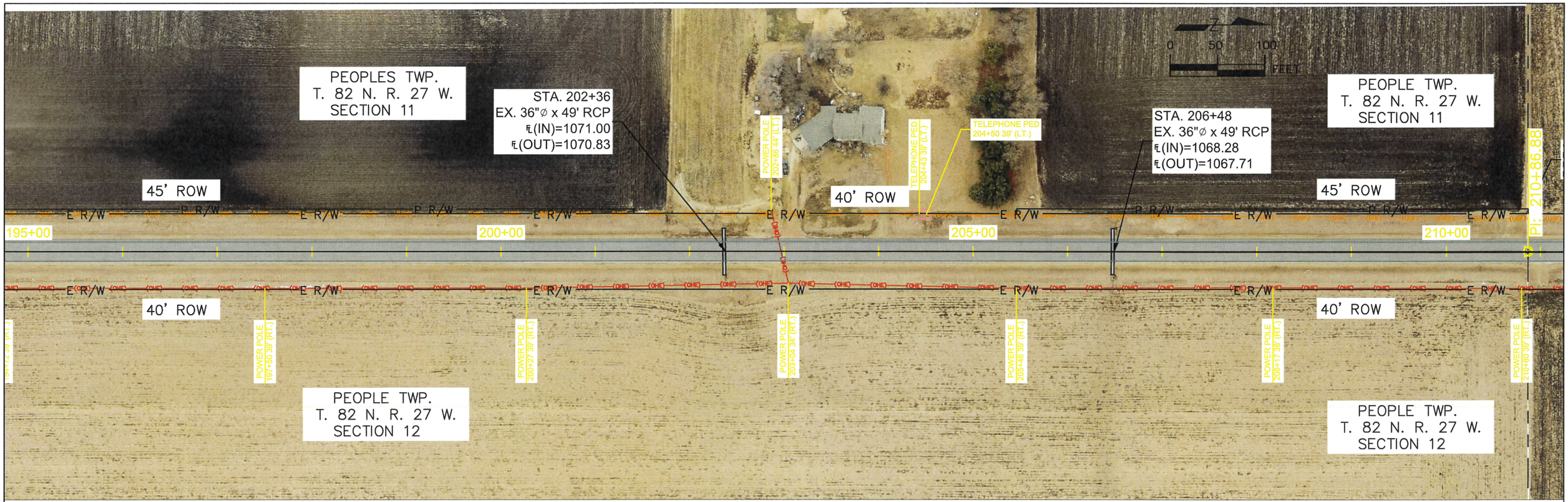

PVI STA: 159+64.54
PVI ELEV: 1066.02
A.D.: 3.52%
K: 251.58
L = 885.00'
LP STA: 159+84.73
LP ELEV: 1069.90
SSD = 980
DESIGN SPEED = 60 MPH
-1.84%
+1.68%
BVCS: 155+22.04
BVCE: 1074.16
EVCS: 164+07.04
EVCE: 1073.45
BVCS: 167+32.43
BVCE: 1078.91
SUBDRAIN OUTLET
SUBDRAIN OUTLET
LONG. SUBDRAIN
SUBDRAIN OUTLET
SUBDRAIN OUTLET
1130
1120
1110
1100
1090
1080
1070
1060
1050
154+50 1075.48
155+00 1074.56
155+50 1073.66
156+00 1072.84
156+50 1072.13
157+00 1071.51
157+50 1071.00
158+00 1070.58
158+50 1070.26
159+00 1070.05
159+50 1069.93
160+00 1069.91
160+50 1069.99
161+00 1070.17
161+50 1070.45
162+00 1070.82
162+50 1071.30
163+00 1071.88
163+50 1072.55
164+00 1073.33
164+50 1074.17
165+00 1075.01
165+50 1075.85
166+00 1076.69
166+50 1077.53
167+00 1078.36
167+50 1079.20
168+00 1079.96

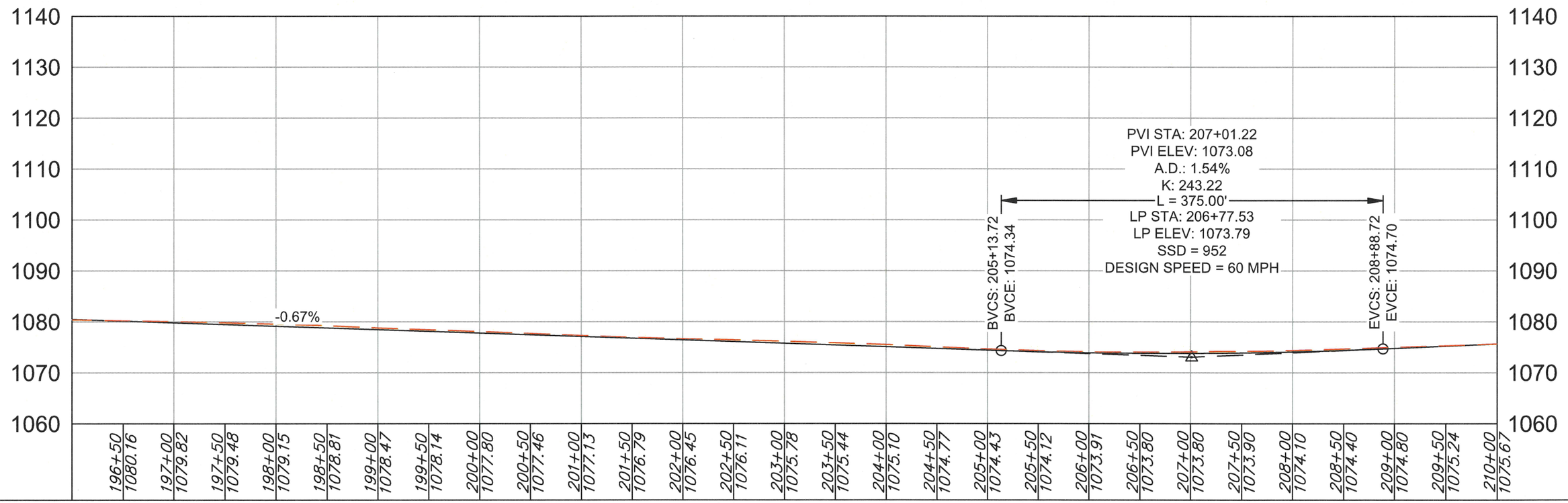

PEOPLES TWP.
T. 82 N. R. 27 W.
SECTION 14
HIGH VOLT. POWER POLE BASE
173+33 43' (LT.)
HIGH VOLT. POWER POLE BASE
173+67 43' (LT.)
TELEPHONE PED
170+12 36' (LT.)
STA. 176+07
EX. 36"∅ x 50' RCP
℄(IN)=1076.45
℄(OUT)=1076.23
PEOPLES TWP.
T. 82 N. R. 27 W.
SECTION 14
N
0 50 100
FEET
40' ROW
E R/W
170+00
175+00
180+00
40' ROW
E R/W
40' ROW
40' ROW
POWER POLE
168+61 32' (RT.)
POWER POLE
171+78 39' (RT.)
POWER POLE
175+07 39' (RT.)
POWER POLE
178+07 40' (RT.)
POWER POLE
181+07 40' (RT.)
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 13
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 13

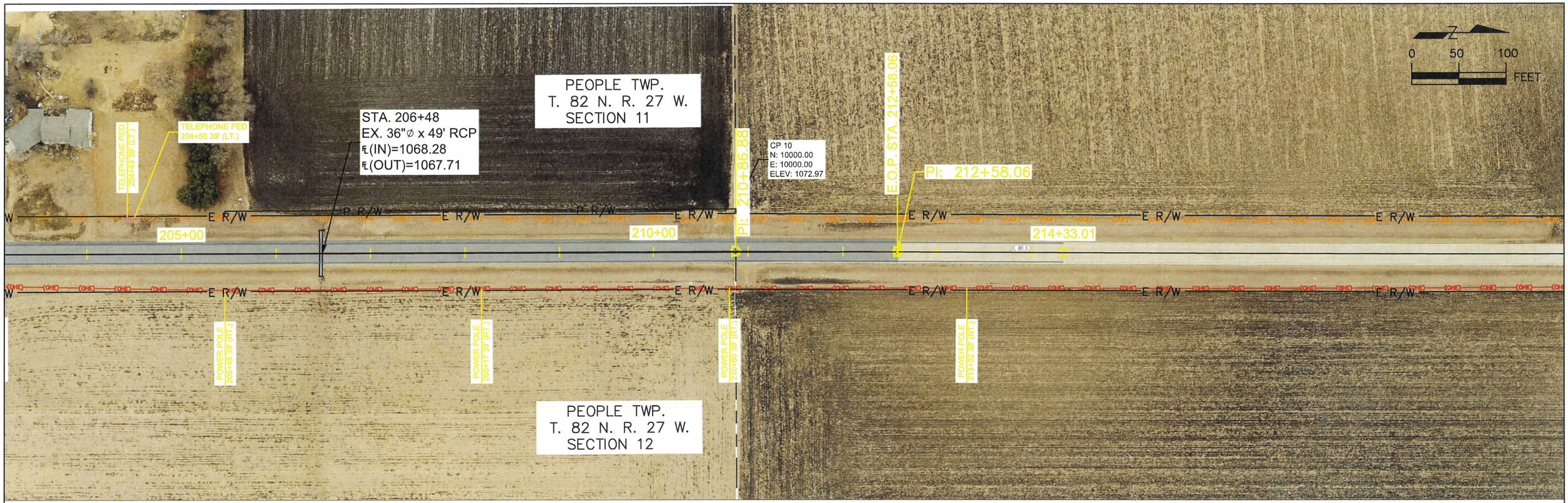

1140
1130
1120
1110
1100
1090
1080
1070
1060
L = 600.00'
PVI STA: 170+32.43
PVI ELEV: 1083.95
A.D.: -2.20%
K: 272.16
HP STA: 171+89.29
HP ELEV: 1082.74
BVCS: 167+32.43
BVCE: 1078.91
EVCS: 173+32.43
EVCE: 1082.37
SSD = 766
DESIGN SPEED = 60 MPH
EVCS: 173+32.43
EVCE: 1082.37
-0.53%
BVCS: 174+83.15
BVCE: 1081.57
PVI STA: 175+95.65
PVI ELEV: 1080.98
A.D.: 1.17%
K: 192.37
L = 225.00'
LP STA: 175+84.33
LP ELEV: 1081.31
SSD = 771
DESIGN SPEED = 60 MPH
EVCS: 177+08.15
EVCE: 1081.71
+0.64%
BVCS: 180+38.32
BVCE: 1083.83
LONG. SUBDRAIN
SUBDRAIN OUTLET
SUBDRAIN OUTLET
168+50 1080.63
169+00 1081.21
169+50 1081.69
170+00 1082.09
170+50 1082.39
171+00 1082.60
171+50 1082.72
172+00 1082.74
172+50 1082.68
173+00 1082.52
173+50 1082.27
174+00 1082.01
174+50 1081.75
175+00 1081.49
175+50 1081.34
176+00 1081.31
176+50 1081.42
177+00 1081.66
177+50 1081.98
178+00 1082.30
178+50 1082.62
179+00 1082.94
179+50 1083.26
180+00 1083.59
180+50 1083.91
181+00 1084.21
181+50 1084.48
182+00 1084.71

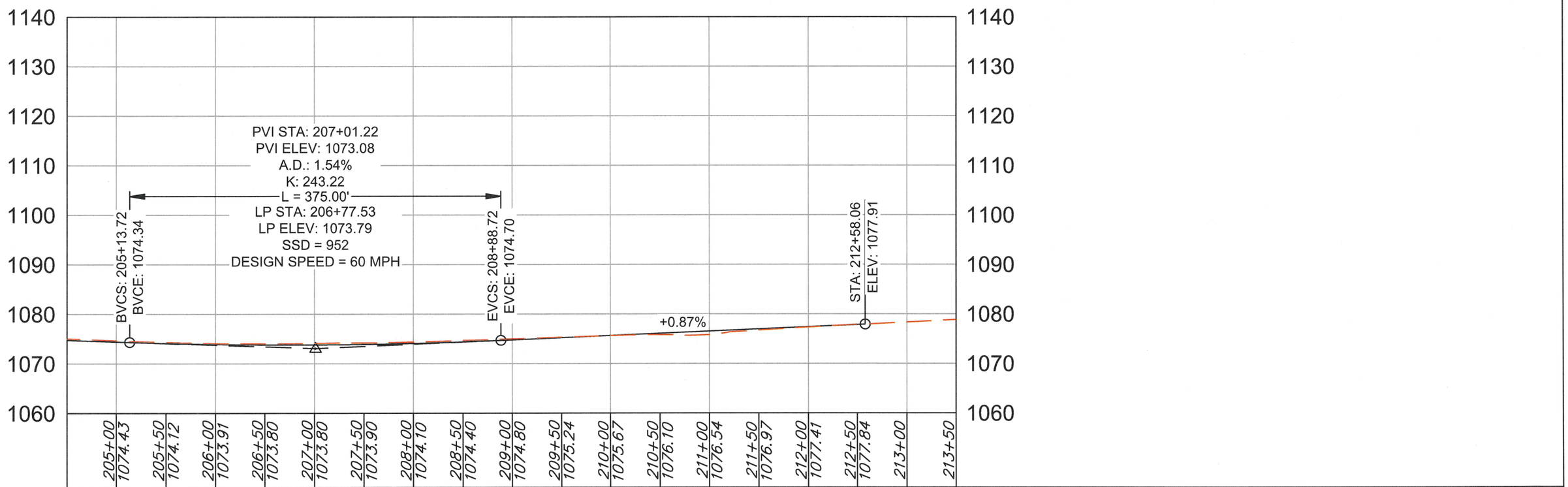

PI: 184+42.33
POWER POLE 184+82 82' (LT.)
TELEPHONE PED 184+90 41' (LT.)
TELEPHONE PED 184+06 60' (LT.)
POWER POLE 184+07 64' (LT.)
PEOPLES TWP.
T. 82 N. R. 27 W.
SECTION 11
0 50 100
FEET
40' ROW
45' ROW
E R/W
P R/W
185+00
190+00
195+00
TELEPHONE PED 193+25 40' (LT.)
40' ROW
40' ROW
POWER POLE 181+01 40' (RT.)
GAS VALVE 185+06 41' (RT.)
POWER POLE 184+80 37' (RT.)
WATER VALVE 184+81 62' (RT.)
POWER POLE 186+21 38' (RT.)
POWER POLE 189+16 38' (RT.)
POWER POLE 191+35 39' (RT.)
POWER POLE 194+72 39' (RT.)
310TH ST
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 12

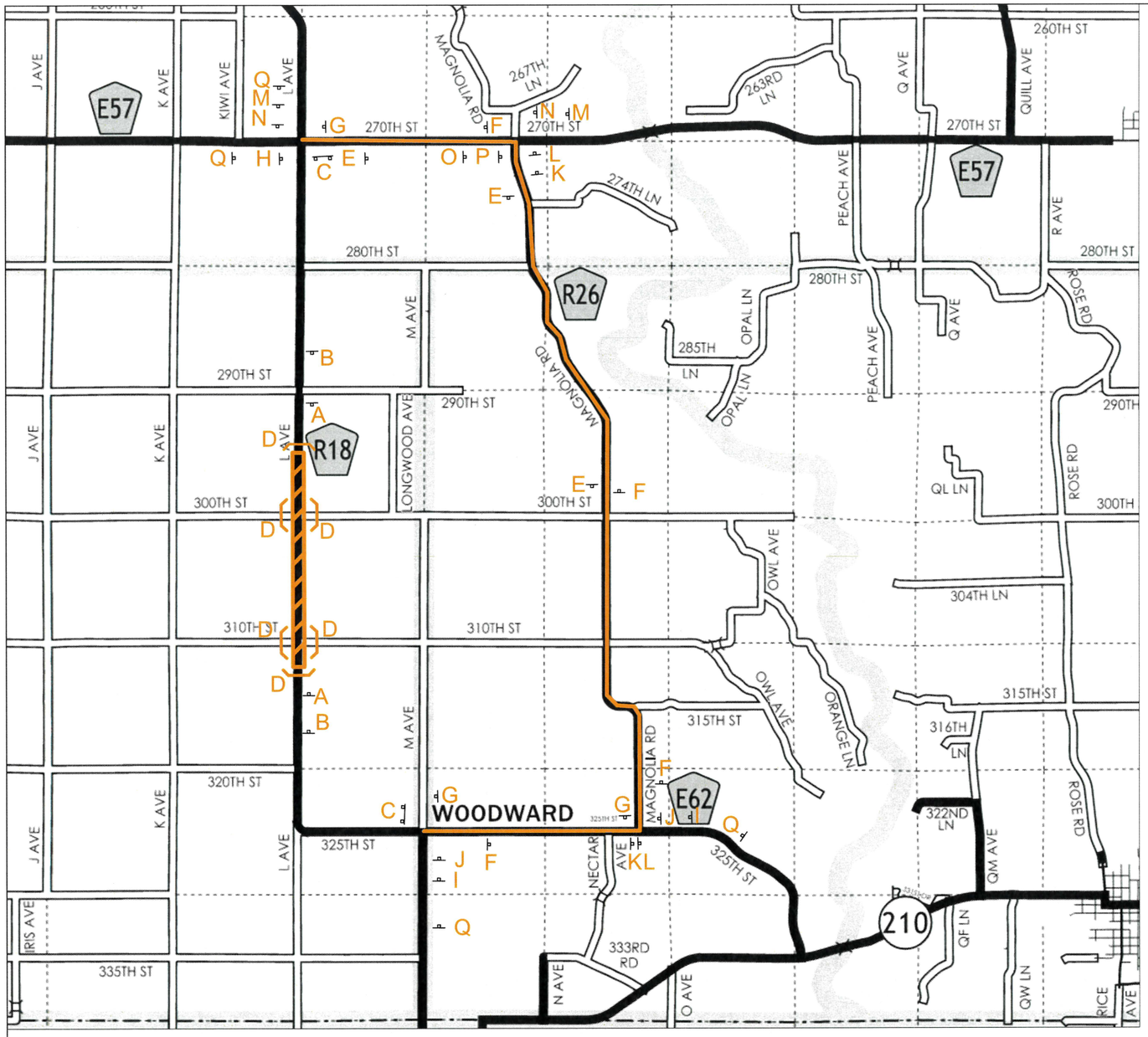

L = 1090.00'
PVI STA: 185+83.32
PVI ELEV: 1087.34
A.D.: -1.32%
K: 827.54
HP STA: 185+70.97
HP ELEV: 1085.55
BVCS: 180+38.32
BVCE: 1083.83
EVCS: 191+28.32
EVCE: 1083.67
SSD = 1335
DESIGN SPEED = 60 MPH
EVCS: 191+28.32
EVCE: 1083.67
LONG. SUBDRAIN
1140
1130
1120
1110
1100
1090
1080
1070
1060
182+50 1084.92
183+00 1085.10
183+50 1085.25
184+00 1085.37
184+50 1085.46
185+00 1085.52
185+50 1085.54
186+00 1085.54
186+50 1085.51
187+00 1085.45
187+50 1085.35
188+00 1085.23
188+50 1085.08
189+00 1084.89
189+50 1084.68
190+00 1084.43
190+50 1084.16
191+00 1083.86
191+50 1083.52
192+00 1083.19
192+50 1082.85
193+00 1082.51
193+50 1082.18
194+00 1081.84
194+50 1081.50
195+00 1081.17
195+50 1080.83
196+00 1080.49


PEOPLES TWP.
T. 82 N. R. 27 W.
SECTION 11
STA. 202+36
EX. 36"ø x 49' RCP
℄(IN)=1071.00
℄(OUT)=1070.83
45' ROW
40' ROW
45' ROW
E R/W
P R/W
195+00
200+00
205+00
210+00
POWER POLE 202+66.44' (LT.)
TELEPHONE PED 204+43.39' (LT.)
TELEPHONE PED 204+50.39' (LT.)
STA. 206+48
EX. 36"ø x 49' RCP
℄(IN)=1068.28
℄(OUT)=1067.71
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 11
PI: 210+86.88
0 50 100 FEET
POWER POLE 197+50.39' (RT.)
POWER POLE 200+27.39' (RT.)
POWER POLE 203+04.34' (RT.)
POWER POLE 205+46.39' (RT.)
POWER POLE 208+17.38' (RT.)
POWER POLE 210+80.38' (RT.)
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 12
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 12


1140
1130
1120
1110
1100
1090
1080
1070
1060
-0.67%
PVI STA: 207+01.22
PVI ELEV: 1073.08
A.D.: 1.54%
K: 243.22
L = 375.00'
LP STA: 206+77.53
LP ELEV: 1073.79
SSD = 952
DESIGN SPEED = 60 MPH
BVCS: 205+13.72
BVCE: 1074.34
EVCS: 208+88.72
EVCE: 1074.70
196+50 1080.16
197+00 1079.82
197+50 1079.48
198+00 1079.15
198+50 1078.81
199+00 1078.47
199+50 1078.14
200+00 1077.80
200+50 1077.46
201+00 1077.13
201+50 1076.79
202+00 1076.45
202+50 1076.11
203+00 1075.78
203+50 1075.44
204+00 1075.10
204+50 1074.77
205+00 1074.43
205+50 1074.12
206+00 1073.91
206+50 1073.80
207+00 1073.80
207+50 1073.90
208+00 1074.10
208+50 1074.40
209+00 1074.80
209+50 1075.24
210+00 1075.67


PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 11
STA. 206+48
EX. 36"⌀ x 49' RCP
℄(IN)=1068.28
℄(OUT)=1067.71
TELEPHONE PED
204+50.39' (LT.)
TELEPHONE PED
204+43.39' (LT.)
CP 10
N: 10000.00
E: 10000.00
ELEV: 1072.97
P.I. 210+86.88
E.O.P. STA. 212+58.06
P.I. 212+58.06
205+00
210+00
214+33.01
E R/W
POWER POLE
205+48.39' (RT.)
POWER POLE
208+17.38' (RT.)
POWER POLE
210+80.39' (RT.)
POWER POLE
213+32.38' (RT.)
PEOPLE TWP.
T. 82 N. R. 27 W.
SECTION 12
0
50
100
FEET


1140
1130
1120
1110
1100
1090
1080
1070
1060
PVI STA: 207+01.22
PVI ELEV: 1073.08
A.D.: 1.54%
K: 243.22
L = 375.00'
LP STA: 206+77.53
LP ELEV: 1073.79
SSD = 952
DESIGN SPEED = 60 MPH
BVCS: 205+13.72
BVCE: 1074.34
EVCS: 208+88.72
EVCE: 1074.70
+0.87%
STA: 212+58.06
ELEV: 1077.91
205+00 1074.43
205+50 1074.12
206+00 1073.91
206+50 1073.80
207+00 1073.80
207+50 1073.90
208+00 1074.10
208+50 1074.40
209+00 1074.80
209+50 1075.24
210+00 1075.67
210+50 1076.10
211+00 1076.54
211+50 1076.97
212+00 1077.41
212+50 1077.84
213+00
213+50



TRAFFIC CONTROL NOTE

COUNTY ROUTE R-18 WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE TO ERECT AND MAINTAIN DETOUR FOR THE DURATION OF CONSTRUCTION. CONSTRUCTION SHALL BE STAGED SO THAT RESIDENTS ALONG THE PROJECT ROUTE WILL HAVE ACCESS TO THEIR HOMES AND DRIVEWAYS DAILY. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE ENGINEER 14 CALENDAR DAYS IN ADVANCED A STAGING PLAN SHOWING THE LOCATIONS WHERE PAVING OPERATIONS WILL START AND STOP AND HOW LANDOWNER ACCESS WILL BE MAINTAINED.

A
W20-3 48"X48"
ROAD CLOSED 500 FT

B
W20-3 48"X48"
ROAD CLOSED 1000 FT

C
R11-3A 60"X30"
ROAD CLOSED X MILES AHEAD
LOCAL TRAFFIC ONLY

D
R11-4 60"X30"
ROAD CLOSED TO THRU TRAFFIC

E
M4-8P 24"X12" DETOUR
M3-3P 24"X12" SOUTH
M1-6 24"X24" R18

F
M4-8P 24"X12" DETOUR
M3-1P 24"X12" NORTH
M1-6 24"X24" R18

G
M4-8P 24"X12" DETOUR
M4-6P 24"X12" END
M1-6 24"X24" R18

H
M4-8P 24"X12" DETOUR
M3-3P 24"X12" SOUTH
M1-6 24"X24" R18
M6-3 24"X18"

I
M4-8P 24"X12" DETOUR
M3-1P 24"X12" NORTH
M1-6 24"X24" R18
M5-1R 24"X18"

J
M4-8P 24"X12" DETOUR
M3-1P 24"X12" NORTH
M1-6 24"X24" R18
M6-1R 24"X18"

K
M4-8P 24"X12" DETOUR
M3-1P 24"X12" NORTH
M1-6 24"X24" R18
M5-1L 24"X18"

L
M4-8P 24"X12" DETOUR
M3-1P 24"X12" NORTH
M1-6 24"X24" R18
M6-1L 24"X18"

M
M4-8P 24"X12" DETOUR
M3-3P 24"X12" SOUTH
M1-6 24"X24" R18
M5-1L 24"X18"

N
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M1-6 24"X24" R18
M6-1L 24"X18"

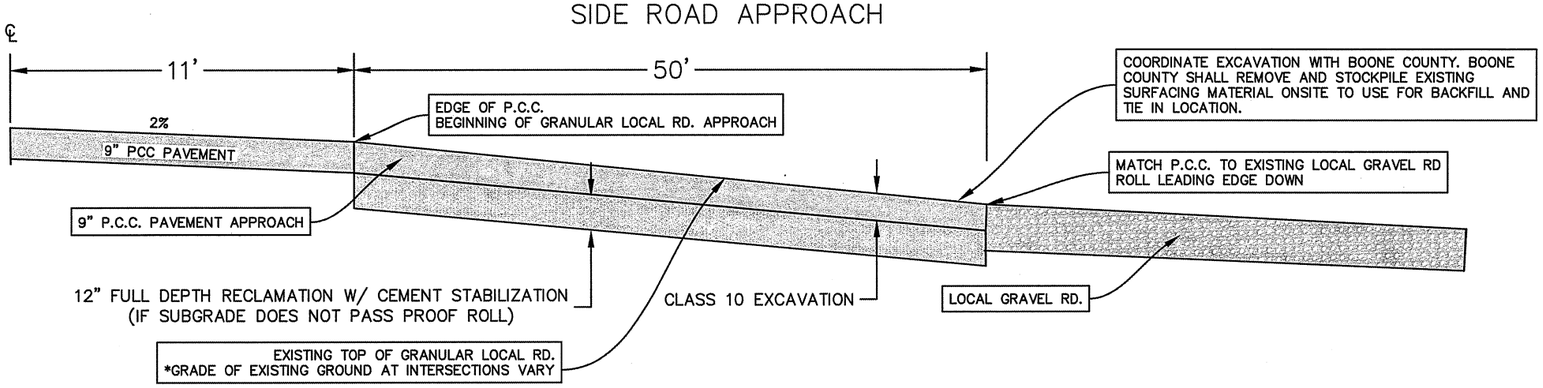
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M5-1R 24"X18"

P
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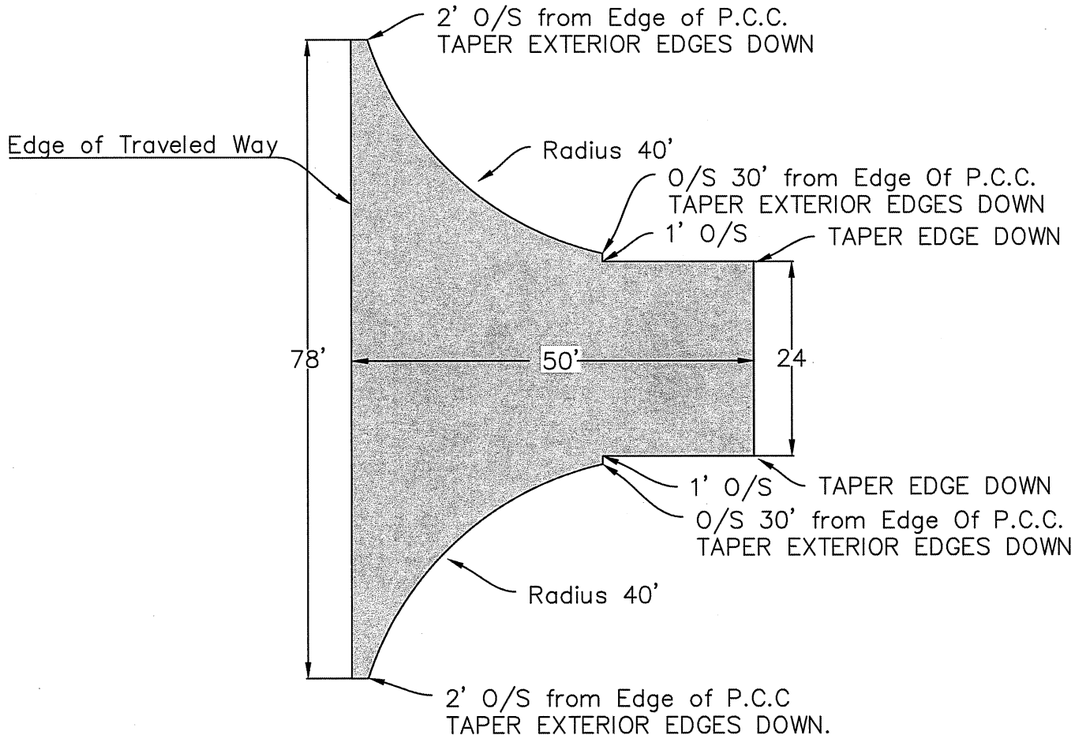
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W20-2 48"X48"
DETOUR AHEAD

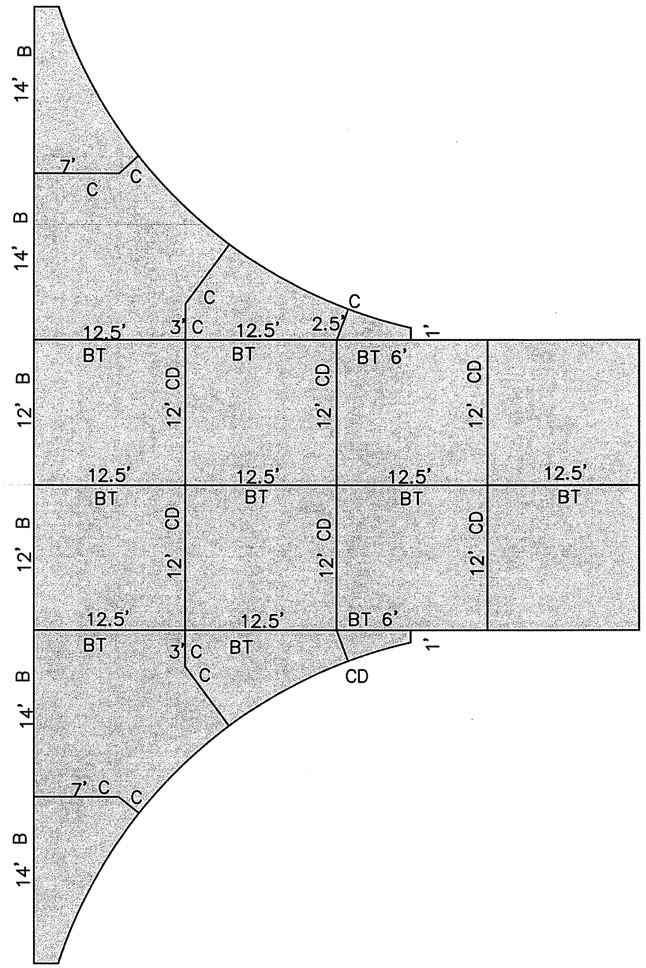
TRAFFIC SIGN
SAFETY CLOSURE
TYPE III BARRICADE

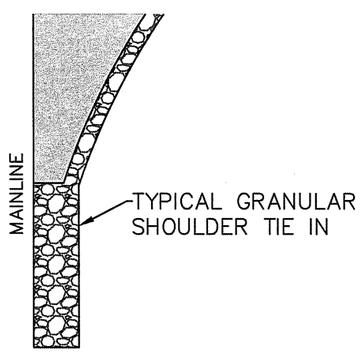
SIDE ROAD APPROACH



INTERSECTION TABULATIONS				
LOCATION	PCC PAVEMENT (SY)	CLASS 10 EXCAVATION (CY)	FULL DEPTH RECLAMATION (SY)	REMARKS
131+29.75	207	52	207	310TH ST (EAST)
131+29.75	207	52	207	310TH ST (WEST)



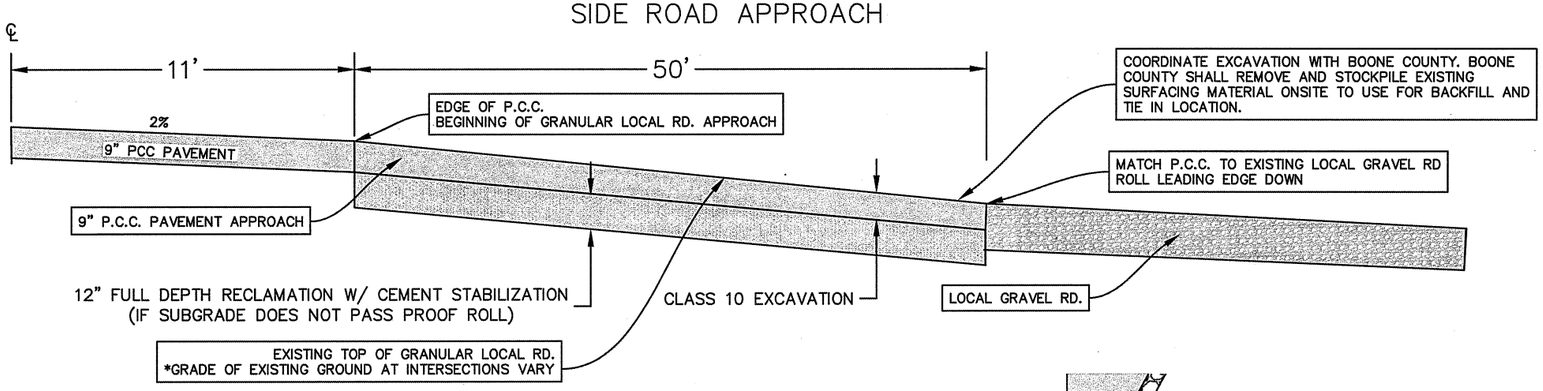




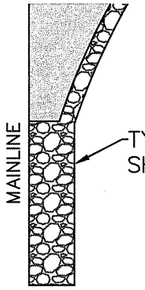
FM-C008(91)-55-08

310TH ST. INTERSECTION DETAILS

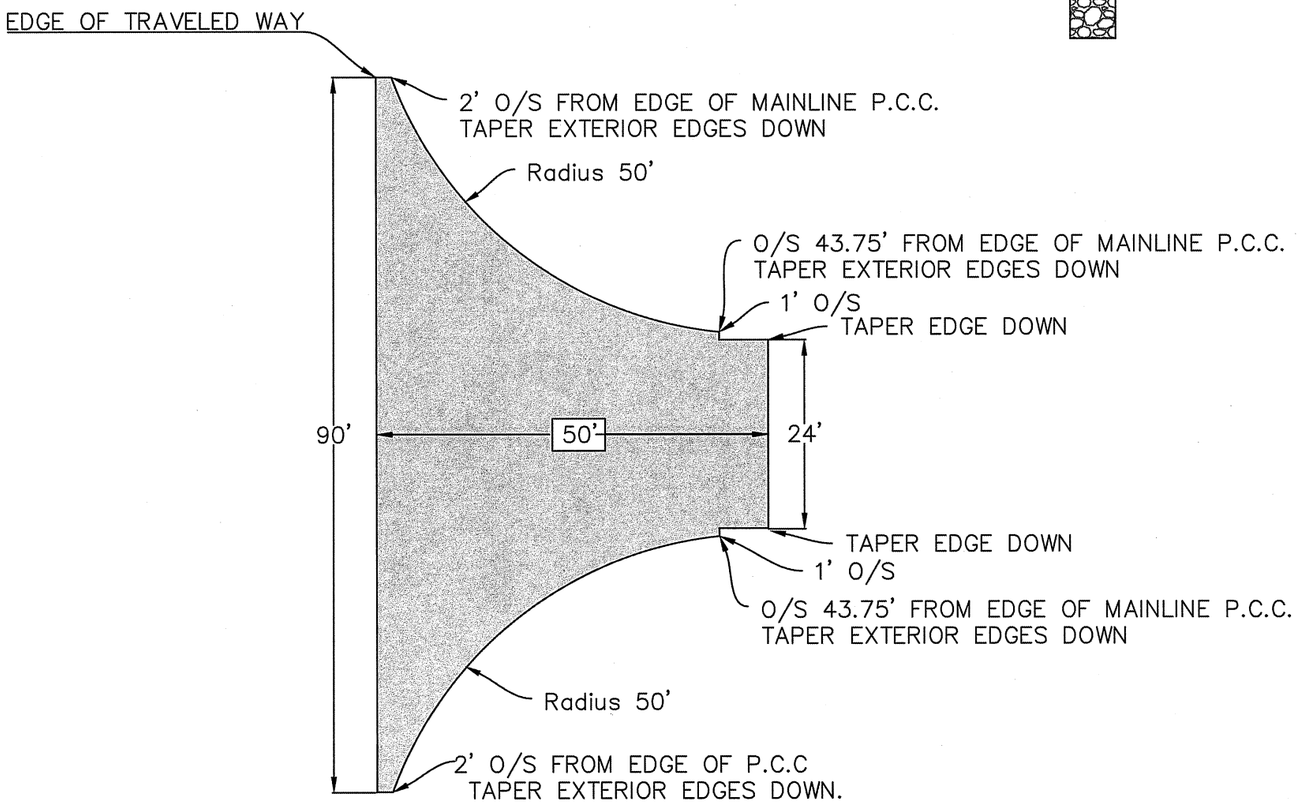
SIDE ROAD APPROACH

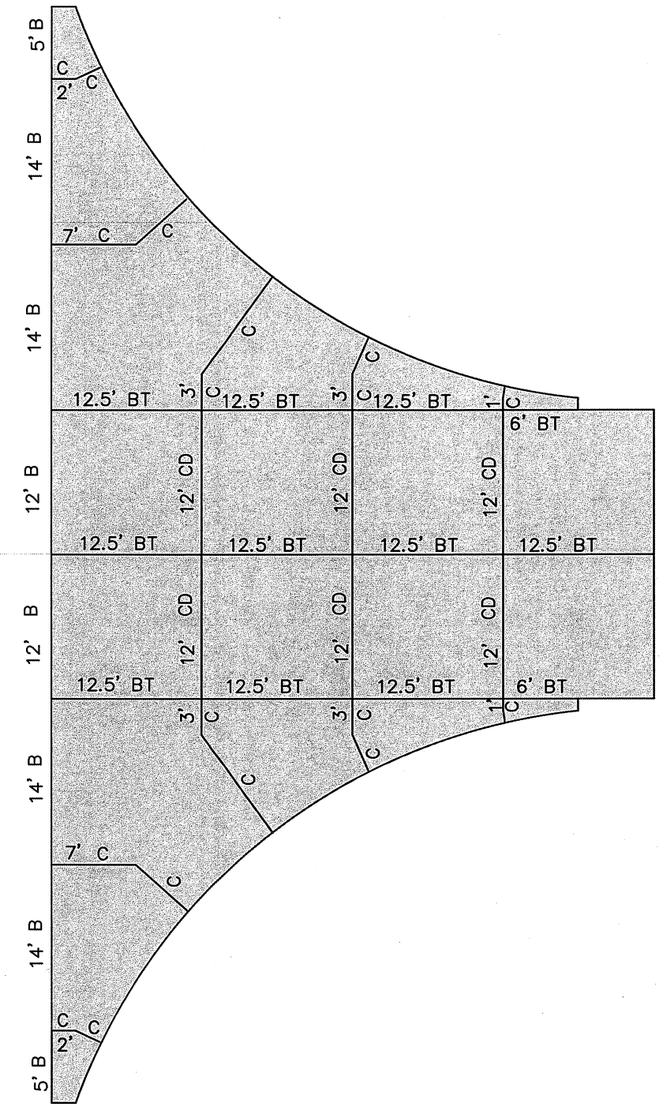


INTERSECTION TABULATIONS				
LOCATION	PCC PAVEMENT (SY)	CLASS 10 EXCAVATION (CY)	FULL DEPTH RECLAMATION (SY)	REMARKS
184+42.33	253	63	253	300TH ST (EAST)
184+42.33	253	63	253	300TH ST (WEST)



TYPICAL GRANULAR SHOULDER TIE IN





FM-C008(91)-55-08

300TH ST INTERSECTION DETAILS

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 RESPONSIBILITIES

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. 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. 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.
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 performing 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. 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.
3. 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.
4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
5. 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.
6. Is familiar with the Project PPP and storm water site map.
7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
8. Is signature authority on Notice of Discontinuation.
9. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
10. Makes information to determine permit compliance available to the DNR upon their request.

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 PCC pavement. This PPP covers approximately 7.95 acres with an estimated 7.95 acres being disturbed. The portion of the PPP covered by this contract has 7.95 acres disturbed.

B. The PPP is located in an area of 1 soil association CLARION - NICOLLET - WEBSTER. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.58.

C. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
1. Drainage Patterns - Plan and Profile sheets.
2. Proposed Slopes - Cross Sections.
3. Areas of Soil Disturbance - Construction limits shown on Plan and Profile sheets.
4. Location of Structural Controls - Tabulations in C sheets.
5. Locations of Non-structural Controls - Tabulations in C sheets.
6. Locations of Stabilization Practices - Generally within construction limits shown on Plan and Profile sheets.
7. Surface Waters (including wetlands) - Project Location Map and Plan and Profile sheets.
8. Locations where Storm Water is Discharged - Plan and Profile 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 CATON BRANCH.

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 Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C 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 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 sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of 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 Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets.

c. Storm Water Management
1) 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 Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C 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 (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS

a. 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 applicable laws, rules or regulations shall apply.
1) Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
2) Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
3) Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
4) Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
5) 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.
6) 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.
7) 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.
8) 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.
9) 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.
10) Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site.

3. APPROVED STATE OR LOCAL PLANS
a. 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

A. 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.
4. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
5. Major observations related to the implementation of the PPP.
6. 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.

VI. NON-STORM WATER DISCHARGES

A. 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

A. 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

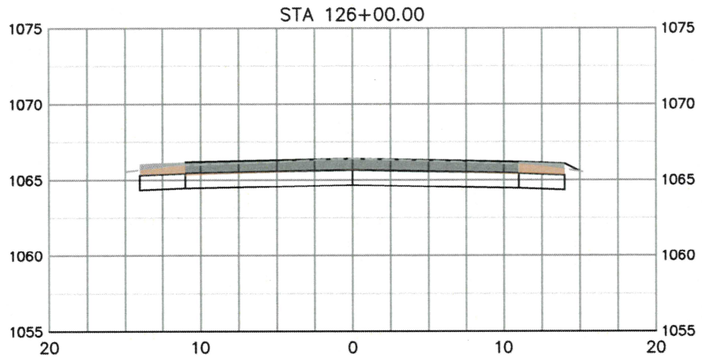
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage 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.

Jonathan Bullock
Signature

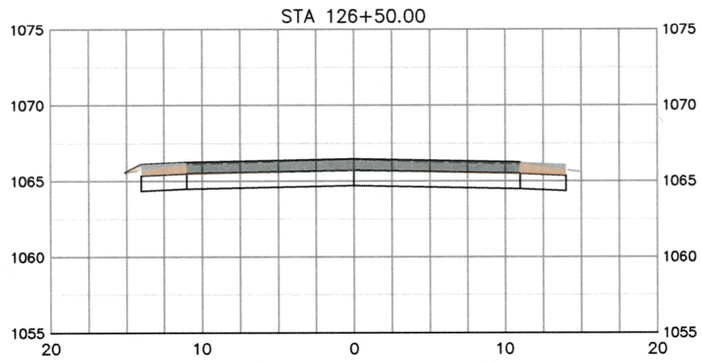
JONATHAN BULLOCK
Printed or Typed Name

Signature

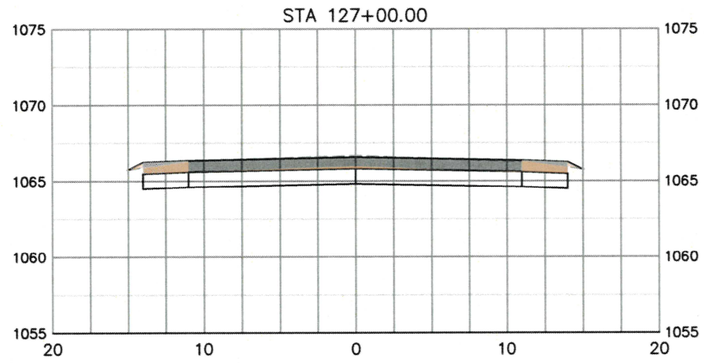
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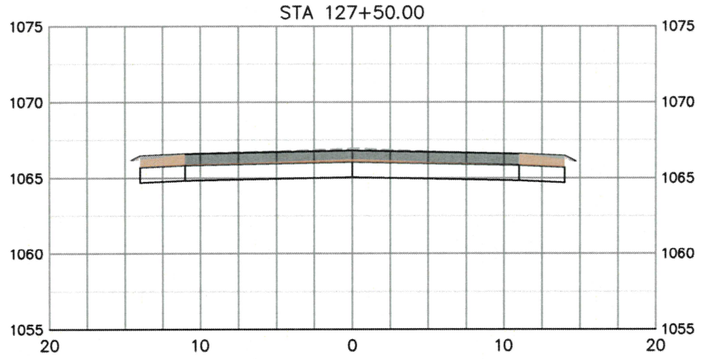
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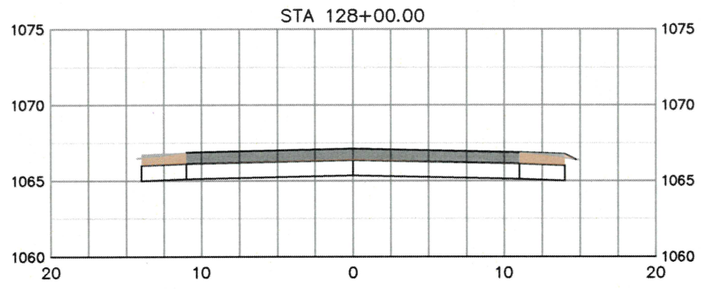
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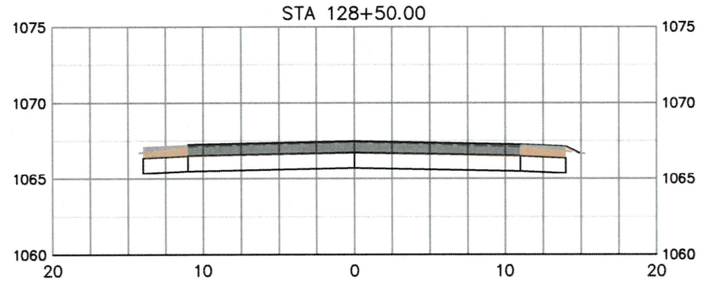
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EXISTING ELEV 1066.67
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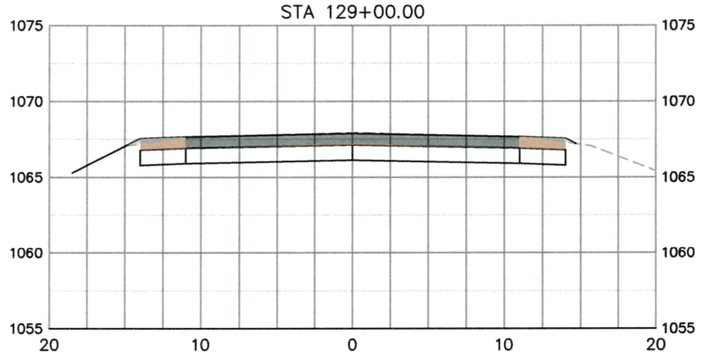
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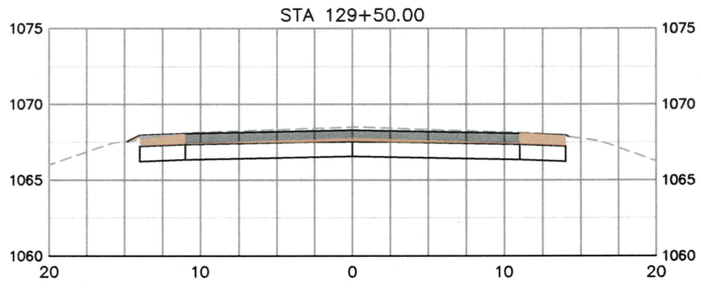
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EXISTING ELEV 1067.13
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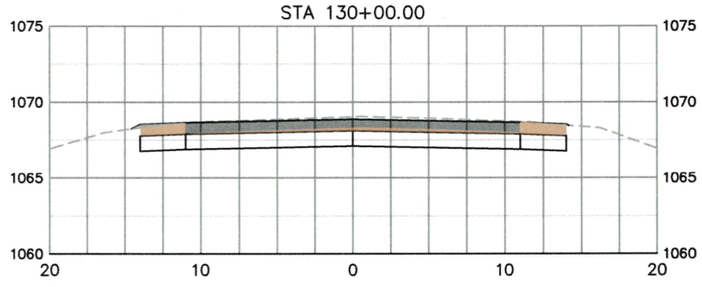
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DESIGN ELEV 1067.86
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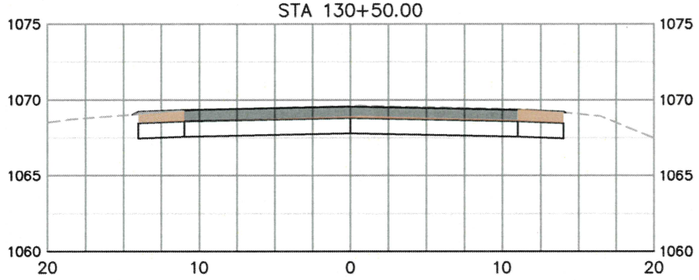


DESIGN ELEV 1068.30
EXISTING ELEV 1068.49
CUT AREA = 7.99ft² FILL AREA = 0.11ft²
CUT VOLUME=11.72C.Y. FILL VOLUME=0.32C.Y.



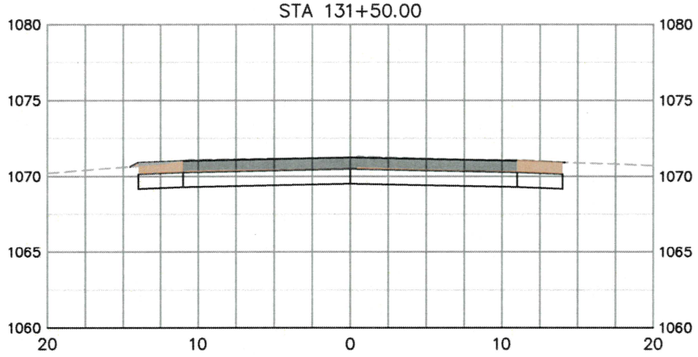
DESIGN ELEV 1068.86
EXISTING ELEV 1069.02
CUT AREA = 7.65ft² FILL AREA = 0.06ft²
CUT VOLUME=14.48C.Y. FILL VOLUME=0.15C.Y.

STA 130+50.00



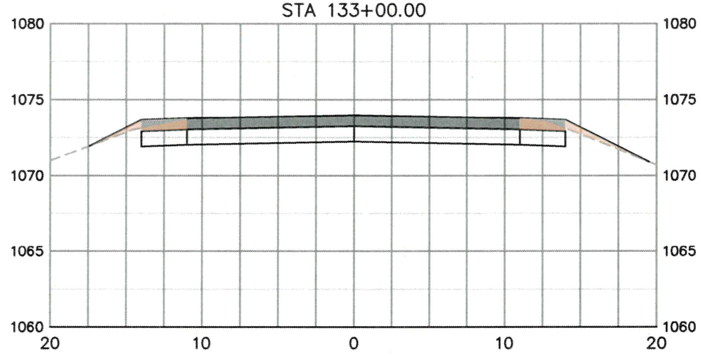
DESIGN ELEV 1069.53
EXISTING ELEV 1069.61
CUT AREA = 6.08ft² FILL AREA = 0.04ft²
CUT VOLUME=12.72C.Y. FILL VOLUME=0.09C.Y.

STA 131+50.00



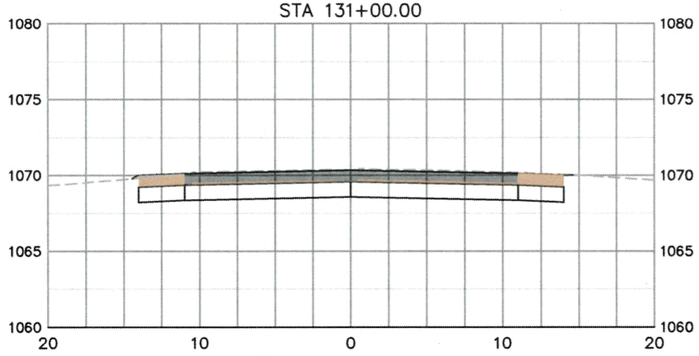
DESIGN ELEV 1071.23
EXISTING ELEV 1071.22
CUT AREA = 5.82ft² FILL AREA = 0.05ft²
CUT VOLUME=5.34C.Y. FILL VOLUME=0.02C.Y.

STA 133+00.00



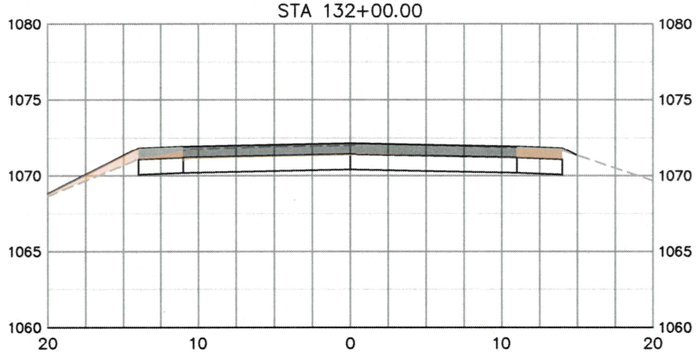
DESIGN ELEV 1073.98
EXISTING ELEV 1073.93
CUT AREA = 3.16ft² FILL AREA = 2.33ft²
CUT VOLUME=5.57C.Y. FILL VOLUME=5.55C.Y.

STA 131+00.00



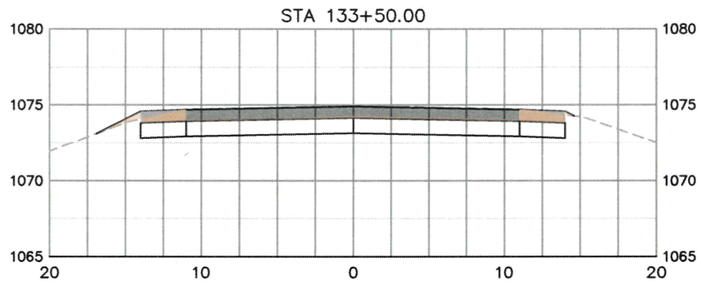
DESIGN ELEV 1070.33
EXISTING ELEV 1070.35
CUT AREA = 7.19ft² FILL AREA = 0.03ft²
CUT VOLUME=12.29C.Y. FILL VOLUME=0.07C.Y.

STA 132+00.00



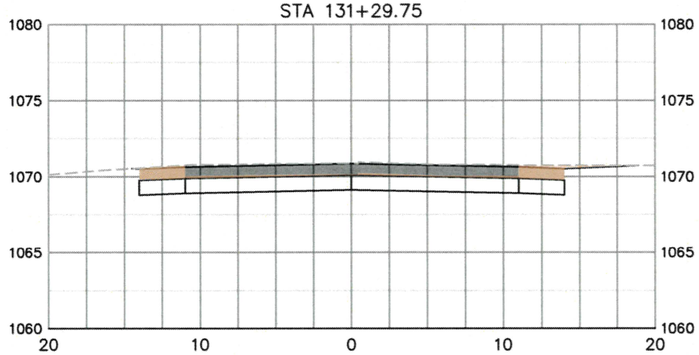
DESIGN ELEV 1072.15
EXISTING ELEV 1072.01
CUT AREA = 3.09ft² FILL AREA = 3.94ft²
CUT VOLUME=8.25C.Y. FILL VOLUME=3.70C.Y.

STA 133+50.00



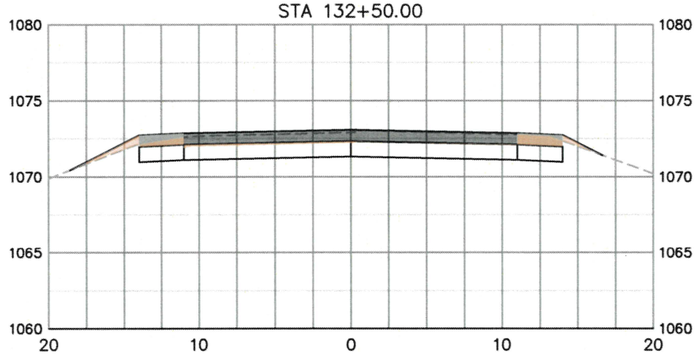
DESIGN ELEV 1074.90
EXISTING ELEV 1074.97
CUT AREA = 5.49ft² FILL AREA = 0.63ft²
CUT VOLUME=8.01C.Y. FILL VOLUME=2.74C.Y.

STA 131+29.75



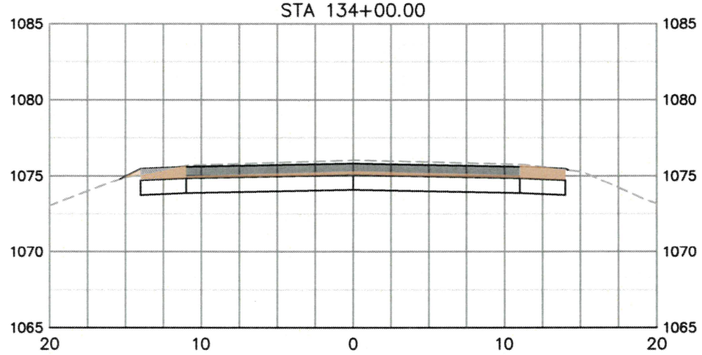
DESIGN ELEV 1070.86
EXISTING ELEV 1070.88
CUT AREA = 8.41ft² FILL AREA = 0.00ft²
CUT VOLUME=8.59C.Y. FILL VOLUME=0.02C.Y.

STA 132+50.00



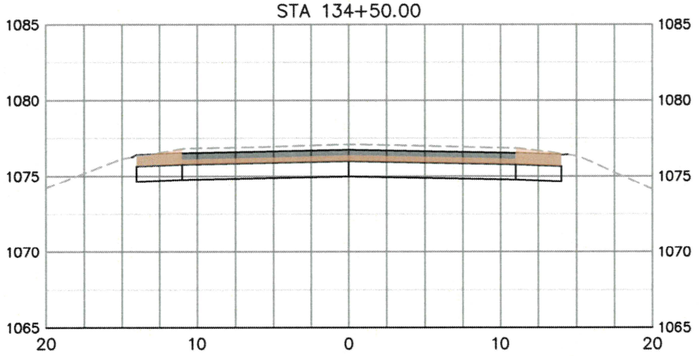
DESIGN ELEV 1073.07
EXISTING ELEV 1072.90
CUT AREA = 2.86ft² FILL AREA = 3.66ft²
CUT VOLUME=5.51C.Y. FILL VOLUME=7.04C.Y.

STA 134+00.00



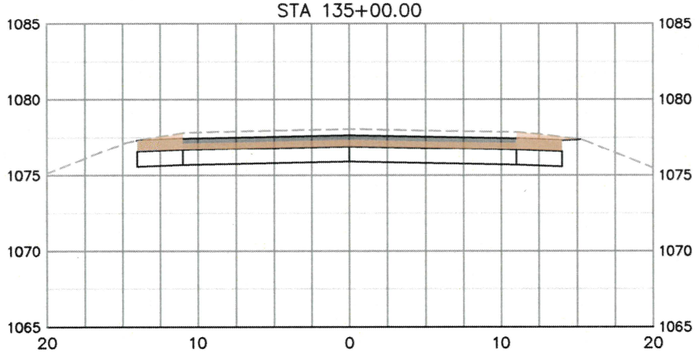
DESIGN ELEV 1075.82
EXISTING ELEV 1076.03
CUT AREA = 8.96ft² FILL AREA = 0.24ft²
CUT VOLUME=13.38C.Y. FILL VOLUME=0.81C.Y.

STA 134+50.00



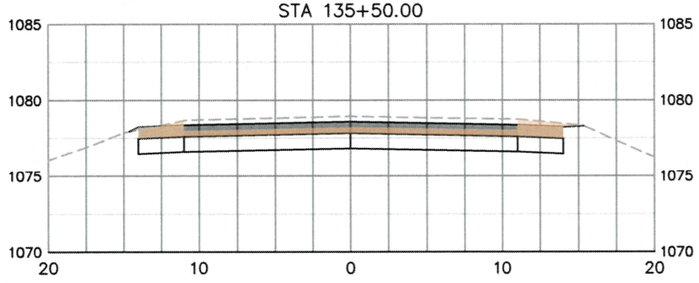
DESIGN ELEV 1076.74
EXISTING ELEV 1077.08
CUT AREA = 13.38ft² FILL AREA = 0.02ft²
CUT VOLUME=20.68C.Y. FILL VOLUME=0.24C.Y.

STA 135+00.00



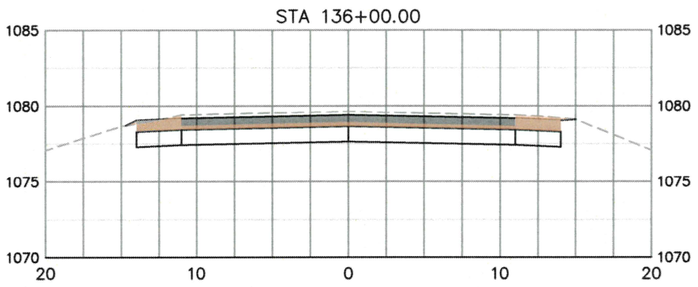
DESIGN ELEV 1077.65
EXISTING ELEV 1078.05
CUT AREA = 15.98ft² FILL AREA = 0.00ft²
CUT VOLUME=27.18C.Y. FILL VOLUME=0.02C.Y.

STA 135+50.00



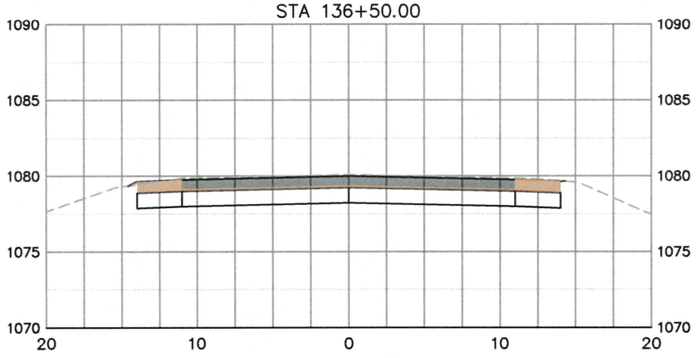
DESIGN ELEV 1078.57
EXISTING ELEV 1078.92
CUT AREA = 14.22ft² FILL AREA = 0.05ft²
CUT VOLUME=27.96C.Y. FILL VOLUME=0.05C.Y.

STA 136+00.00



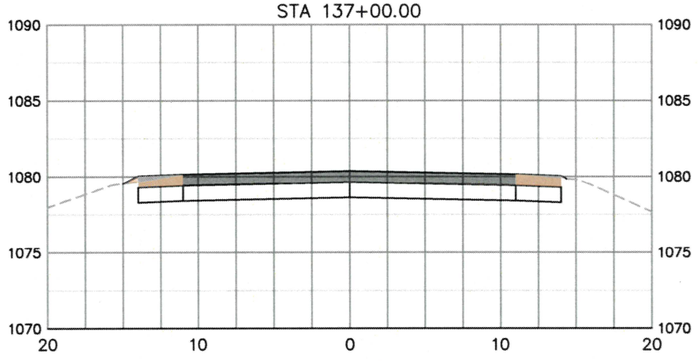
DESIGN ELEV 1079.37
EXISTING ELEV 1079.61
CUT AREA = 11.06ft² FILL AREA = 0.08ft²
CUT VOLUME=23.41C.Y. FILL VOLUME=0.13C.Y.

STA 136+50.00



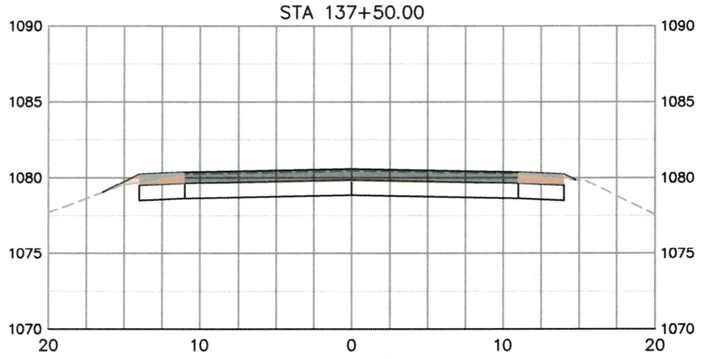
DESIGN ELEV 1079.98
EXISTING ELEV 1080.08
CUT AREA = 7.57ft² FILL AREA = 0.06ft²
CUT VOLUME=17.25C.Y. FILL VOLUME=0.13C.Y.

STA 137+00.00



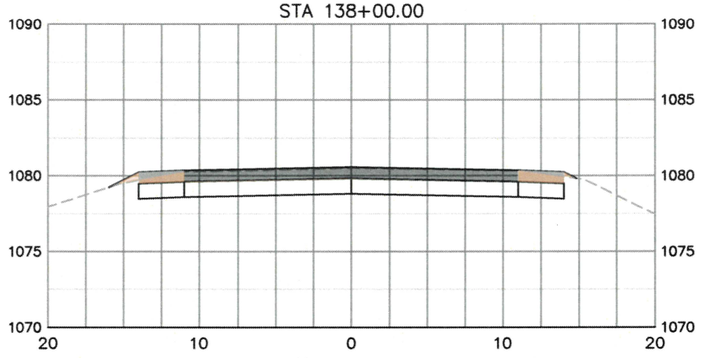
DESIGN ELEV 1080.38
EXISTING ELEV 1080.34
CUT AREA = 3.90ft² FILL AREA = 0.21ft²
CUT VOLUME=10.62C.Y. FILL VOLUME=0.25C.Y.

STA 137+50.00



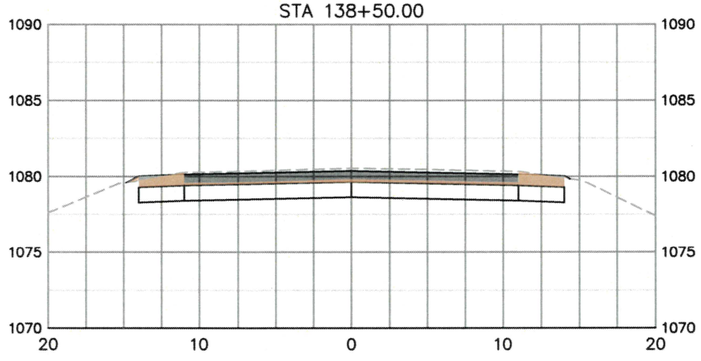
DESIGN ELEV 1080.57
EXISTING ELEV 1080.45
CUT AREA = 2.84ft² FILL AREA = 2.22ft²
CUT VOLUME=6.24C.Y. FILL VOLUME=2.25C.Y.

STA 138+00.00

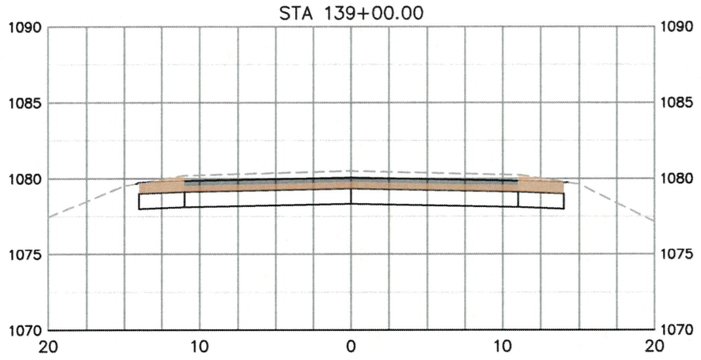


DESIGN ELEV 1080.57
EXISTING ELEV 1080.49
CUT AREA = 3.12ft² FILL AREA = 1.25ft²
CUT VOLUME=5.52C.Y. FILL VOLUME=3.21C.Y.

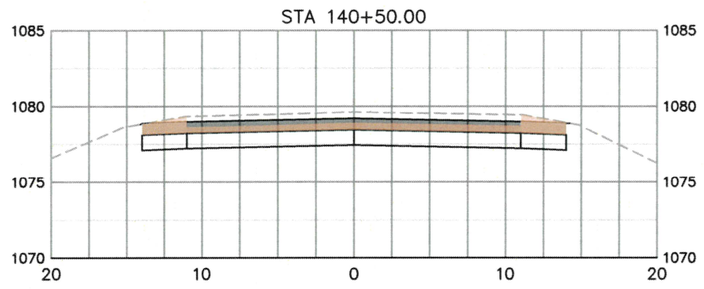
STA 138+50.00



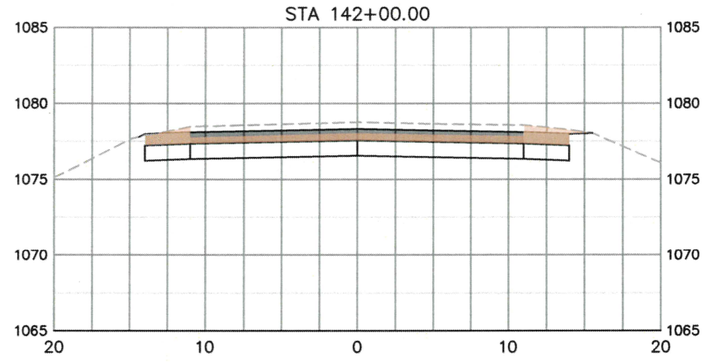
DESIGN ELEV 1080.36
EXISTING ELEV 1080.54
CUT AREA = 8.92ft² FILL AREA = 0.14ft²
CUT VOLUME=11.15C.Y. FILL VOLUME=1.28C.Y.



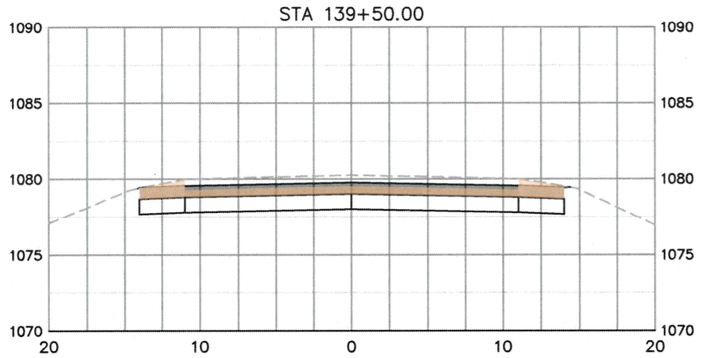
DESIGN ELEV 1080.07
EXISTING ELEV 1080.50
CUT AREA = 15.18ft² FILL AREA = 0.01ft²
CUT VOLUME=22.32C.Y. FILL VOLUME=0.14C.Y.



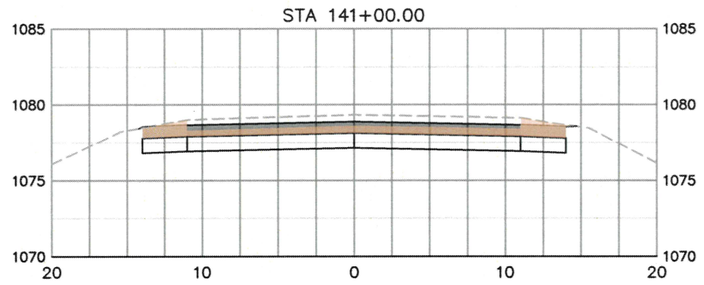
DESIGN ELEV 1079.18
EXISTING ELEV 1079.61
CUT AREA = 15.57ft² FILL AREA = 0.00ft²
CUT VOLUME=29.17C.Y. FILL VOLUME=0.00C.Y.



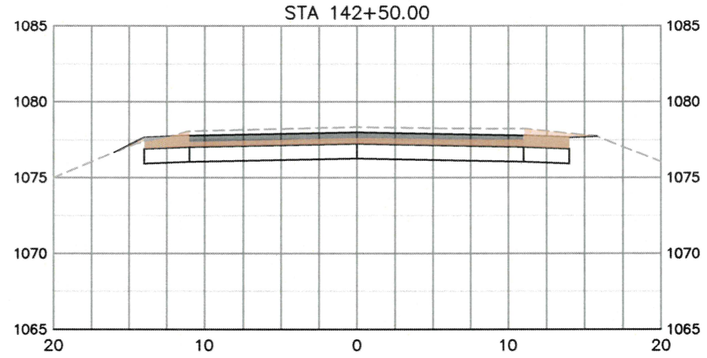
DESIGN ELEV 1078.30
EXISTING ELEV 1078.73
CUT AREA = 16.42ft² FILL AREA = 0.02ft²
CUT VOLUME=31.33C.Y. FILL VOLUME=0.02C.Y.



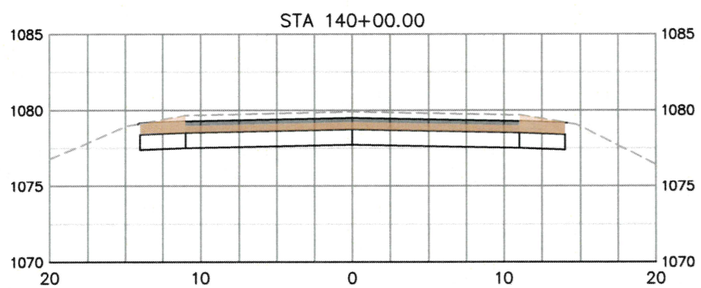
DESIGN ELEV 1079.77
EXISTING ELEV 1080.24
CUT AREA = 16.95ft² FILL AREA = 0.00ft²
CUT VOLUME=29.75C.Y. FILL VOLUME=0.01C.Y.



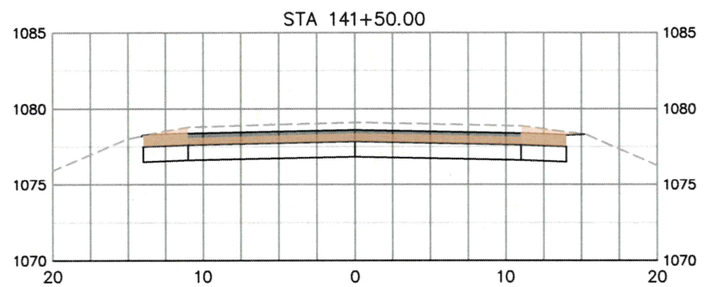
DESIGN ELEV 1078.89
EXISTING ELEV 1079.33
CUT AREA = 15.99ft² FILL AREA = 0.01ft²
CUT VOLUME=29.21C.Y. FILL VOLUME=0.01C.Y.



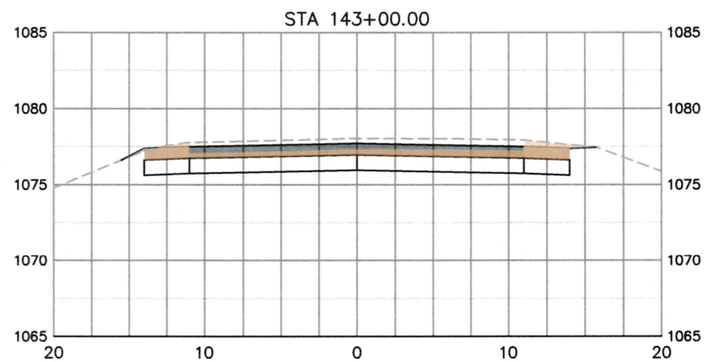
DESIGN ELEV 1078.00
EXISTING ELEV 1078.34
CUT AREA = 14.32ft² FILL AREA = 0.20ft²
CUT VOLUME=28.46C.Y. FILL VOLUME=0.21C.Y.



DESIGN ELEV 1079.48
EXISTING ELEV 1079.91
CUT AREA = 15.93ft² FILL AREA = 0.00ft²
CUT VOLUME=30.45C.Y. FILL VOLUME=0.00C.Y.

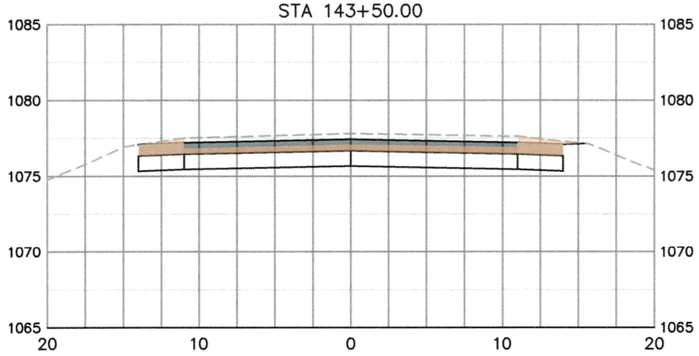


DESIGN ELEV 1078.59
EXISTING ELEV 1079.08
CUT AREA = 17.42ft² FILL AREA = 0.00ft²
CUT VOLUME=30.93C.Y. FILL VOLUME=0.01C.Y.



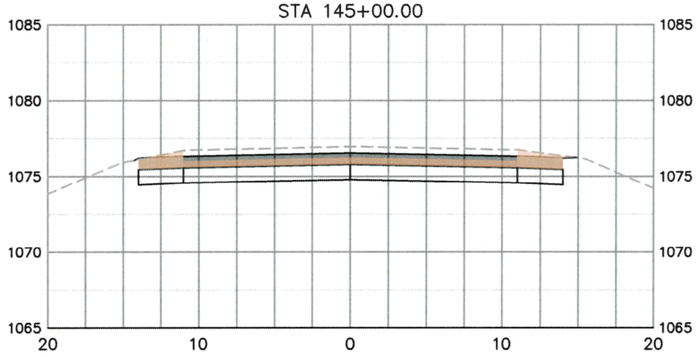
DESIGN ELEV 1077.71
EXISTING ELEV 1078.02
CUT AREA = 14.48ft² FILL AREA = 0.13ft²
CUT VOLUME=26.67C.Y. FILL VOLUME=0.31C.Y.

STA 143+50.00



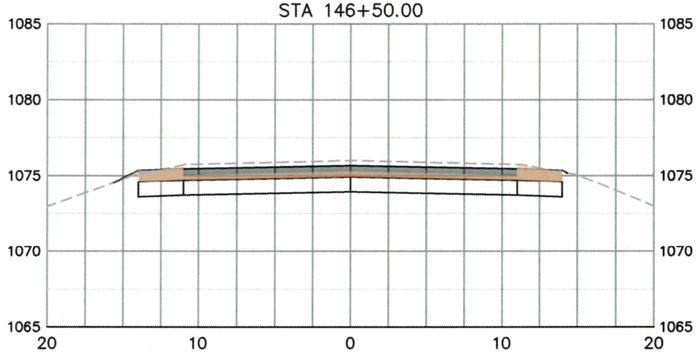
DESIGN ELEV 1077.41
EXISTING ELEV 1077.79
CUT AREA = 15.02ft² FILL AREA = 0.00ft²
CUT VOLUME=27.32C.Y. FILL VOLUME=0.12C.Y.

STA 145+00.00



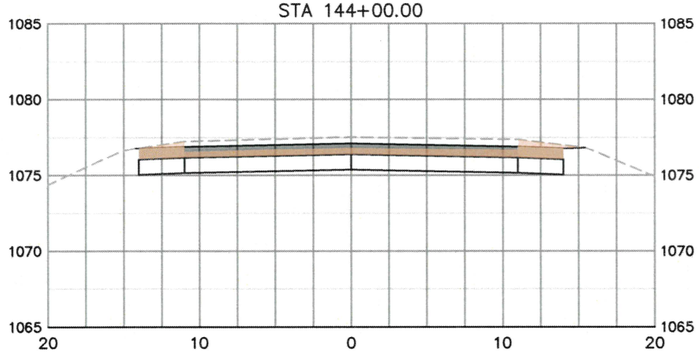
DESIGN ELEV 1076.53
EXISTING ELEV 1076.94
CUT AREA = 16.09ft² FILL AREA = 0.01ft²
CUT VOLUME=30.67C.Y. FILL VOLUME=0.03C.Y.

STA 146+50.00



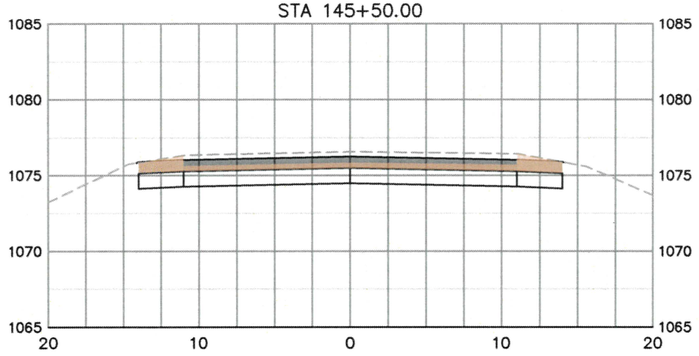
DESIGN ELEV 1075.66
EXISTING ELEV 1075.99
CUT AREA = 12.64ft² FILL AREA = 0.16ft²
CUT VOLUME=22.91C.Y. FILL VOLUME=0.30C.Y.

STA 144+00.00



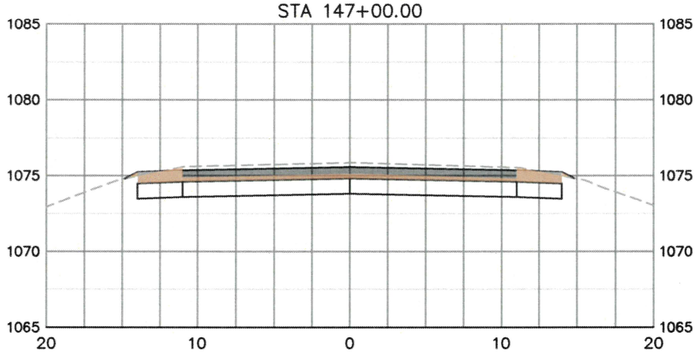
DESIGN ELEV 1077.12
EXISTING ELEV 1077.53
CUT AREA = 16.29ft² FILL AREA = 0.00ft²
CUT VOLUME=28.99C.Y. FILL VOLUME=0.00C.Y.

STA 145+50.00



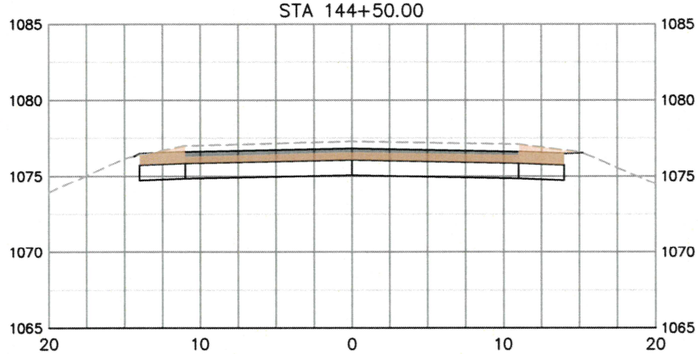
DESIGN ELEV 1076.23
EXISTING ELEV 1076.55
CUT AREA = 13.84ft² FILL AREA = 0.00ft²
CUT VOLUME=27.71C.Y. FILL VOLUME=0.01C.Y.

STA 147+00.00



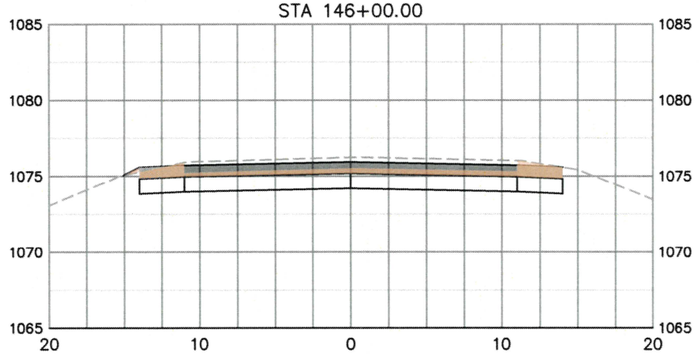
DESIGN ELEV 1075.57
EXISTING ELEV 1075.84
CUT AREA = 10.79ft² FILL AREA = 0.21ft²
CUT VOLUME=21.69C.Y. FILL VOLUME=0.34C.Y.

STA 144+50.00



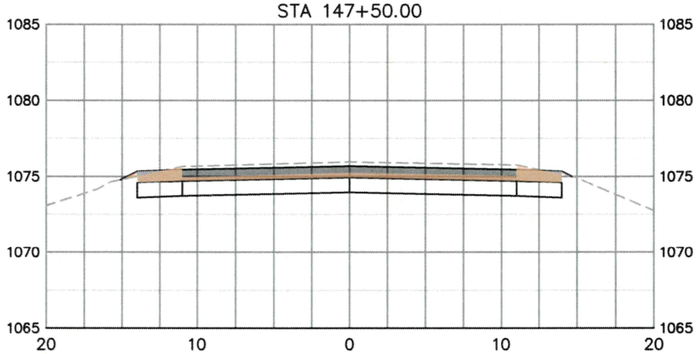
DESIGN ELEV 1076.82
EXISTING ELEV 1077.28
CUT AREA = 17.03ft² FILL AREA = 0.02ft²
CUT VOLUME=30.85C.Y. FILL VOLUME=0.02C.Y.

STA 146+00.00



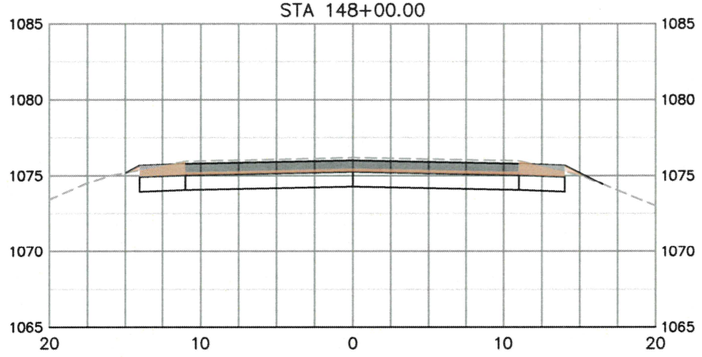
DESIGN ELEV 1075.94
EXISTING ELEV 1076.24
CUT AREA = 12.11ft² FILL AREA = 0.17ft²
CUT VOLUME=24.02C.Y. FILL VOLUME=0.16C.Y.

STA 147+50.00



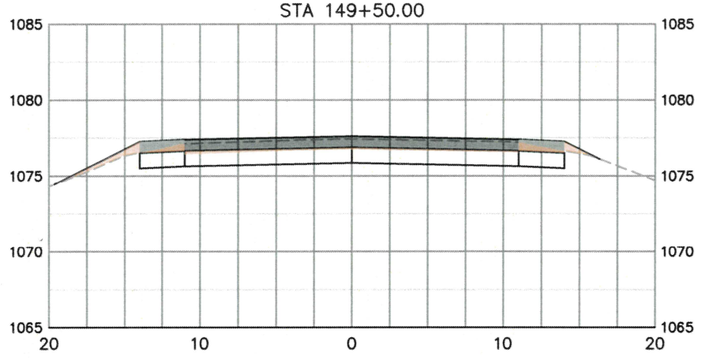
DESIGN ELEV 1075.68
EXISTING ELEV 1075.96
CUT AREA = 11.24ft² FILL AREA = 0.24ft²
CUT VOLUME=20.39C.Y. FILL VOLUME=0.41C.Y.

STA 148+00.00



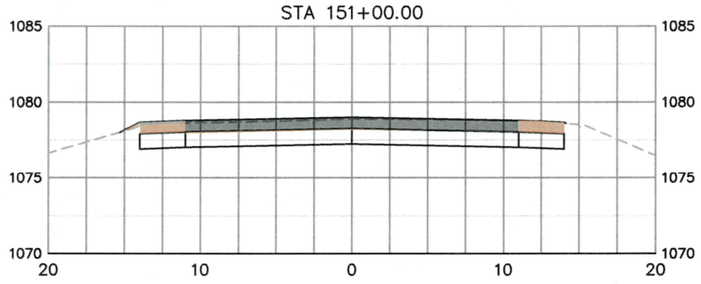
DESIGN ELEV 1076.00
EXISTING ELEV 1076.18
CUT AREA = 8.56ft² FILL AREA = 0.50ft²
CUT VOLUME=18.33C.Y. FILL VOLUME=0.69C.Y.

STA 149+50.00



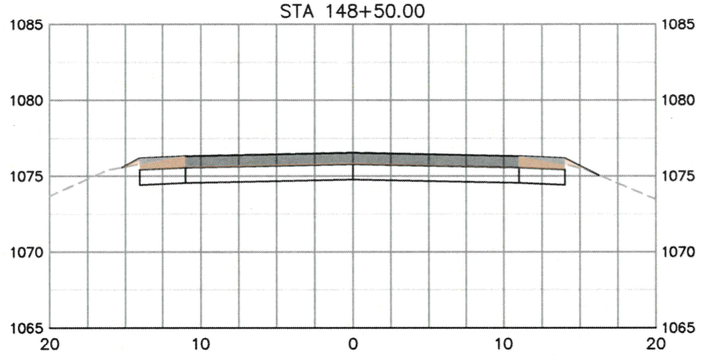
DESIGN ELEV 1077.59
EXISTING ELEV 1077.41
CUT AREA = 1.82ft² FILL AREA = 5.49ft²
CUT VOLUME=4.23C.Y. FILL VOLUME=6.90C.Y.

STA 151+00.00



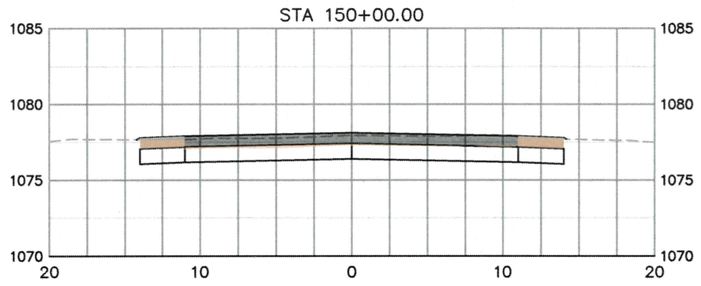
DESIGN ELEV 1078.98
EXISTING ELEV 1078.86
CUT AREA = 4.09ft² FILL AREA = 1.62ft²
CUT VOLUME=8.12C.Y. FILL VOLUME=2.43C.Y.

STA 148+50.00



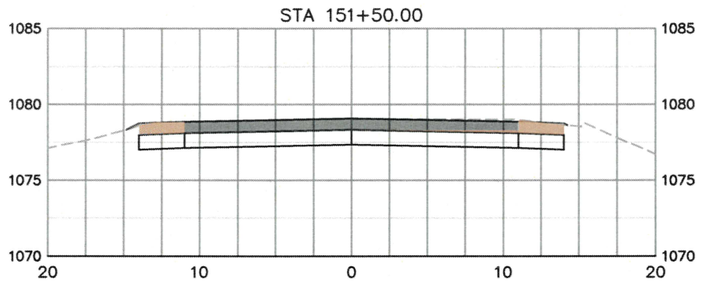
DESIGN ELEV 1076.51
EXISTING ELEV 1076.56
CUT AREA = 4.99ft² FILL AREA = 0.58ft²
CUT VOLUME=12.54C.Y. FILL VOLUME=1.00C.Y.

STA 150+00.00



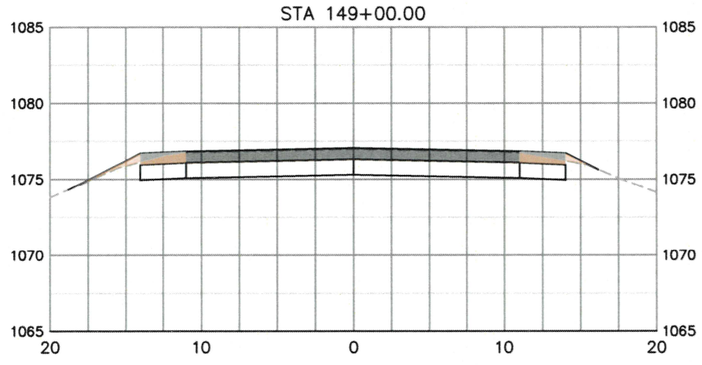
DESIGN ELEV 1078.13
EXISTING ELEV 1077.96
CUT AREA = 3.88ft² FILL AREA = 2.61ft²
CUT VOLUME=5.27C.Y. FILL VOLUME=7.50C.Y.

STA 151+50.00



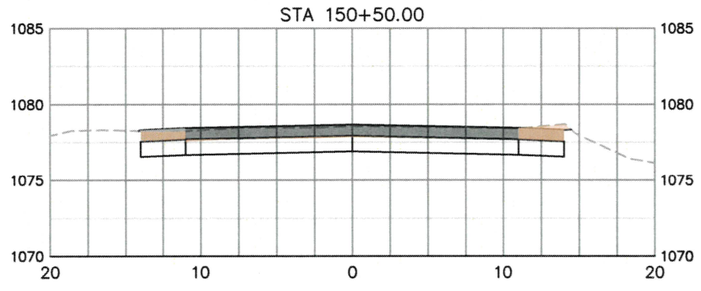
DESIGN ELEV 1079.09
EXISTING ELEV 1079.06
CUT AREA = 5.68ft² FILL AREA = 0.07ft²
CUT VOLUME=9.05C.Y. FILL VOLUME=1.56C.Y.

STA 149+00.00



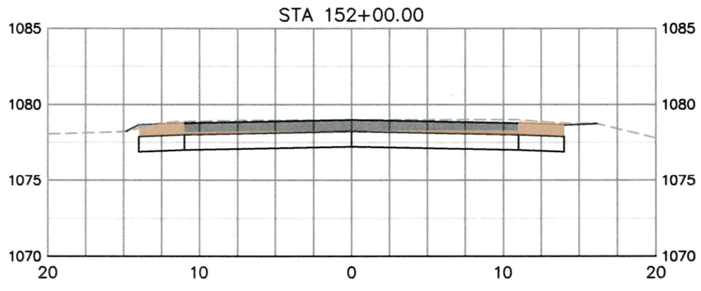
DESIGN ELEV 1077.05
EXISTING ELEV 1076.98
CUT AREA = 2.75ft² FILL AREA = 1.96ft²
CUT VOLUME=7.16C.Y. FILL VOLUME=2.36C.Y.

STA 150+50.00



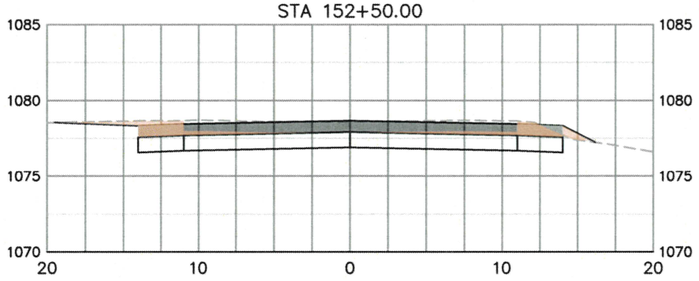
DESIGN ELEV 1078.65
EXISTING ELEV 1078.54
CUT AREA = 4.67ft² FILL AREA = 1.00ft²
CUT VOLUME=7.92C.Y. FILL VOLUME=3.34C.Y.

STA 152+00.00



DESIGN ELEV 1078.98
EXISTING ELEV 1078.95
CUT AREA = 8.06ft² FILL AREA = 0.10ft²
CUT VOLUME=12.72C.Y. FILL VOLUME=0.15C.Y.

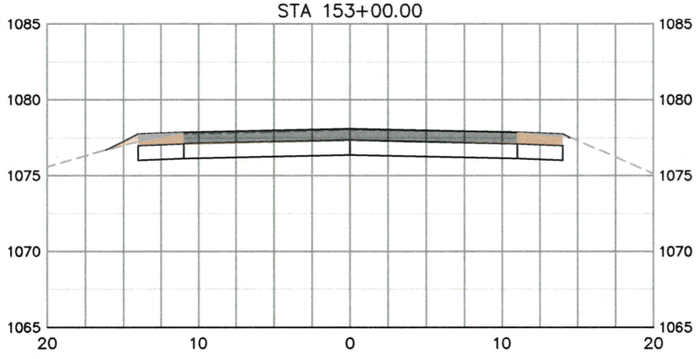
STA 152+50.00



DESIGN ELEV 1078.65
EXISTING ELEV 1078.59

CUT AREA = 8.79ft² FILL AREA = 0.82ft²
CUT VOLUME=15.60C.Y. FILL VOLUME=0.85C.Y.

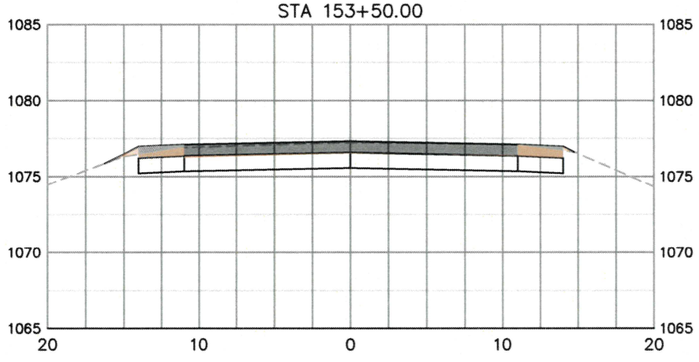
STA 153+00.00



DESIGN ELEV 1078.09
EXISTING ELEV 1078.02

CUT AREA = 3.49ft² FILL AREA = 1.25ft²
CUT VOLUME=11.38C.Y. FILL VOLUME=1.92C.Y.

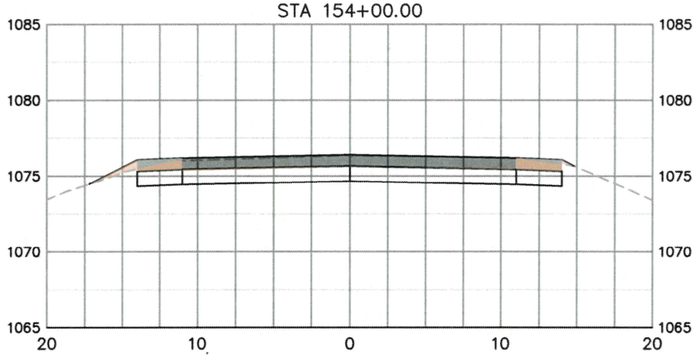
STA 153+50.00



DESIGN ELEV 1077.32
EXISTING ELEV 1077.23

CUT AREA = 3.28ft² FILL AREA = 1.63ft²
CUT VOLUME=6.27C.Y. FILL VOLUME=2.66C.Y.

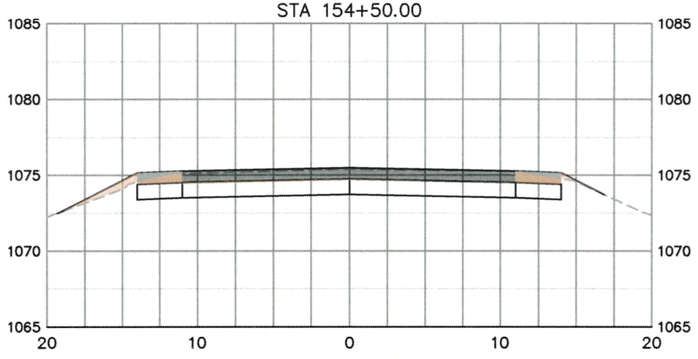
STA 154+00.00



DESIGN ELEV 1076.40
EXISTING ELEV 1076.33

CUT AREA = 3.30ft² FILL AREA = 1.86ft²
CUT VOLUME=6.09C.Y. FILL VOLUME=3.23C.Y.

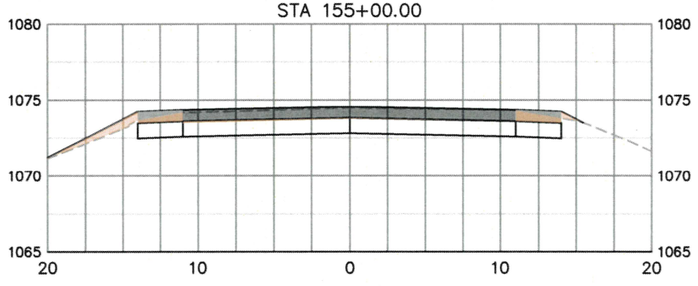
STA 154+50.00



DESIGN ELEV 1075.48
EXISTING ELEV 1075.38

CUT AREA = 2.86ft² FILL AREA = 3.14ft²
CUT VOLUME=5.70C.Y. FILL VOLUME=4.63C.Y.

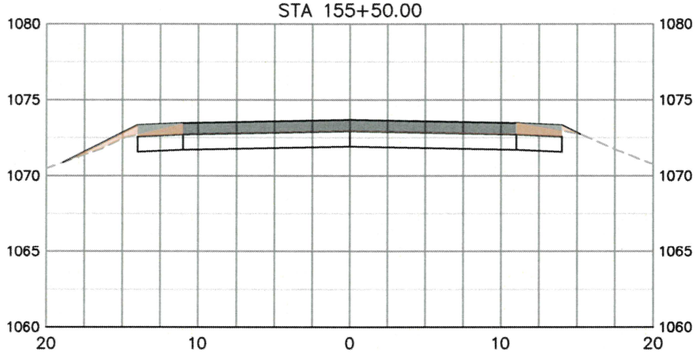
STA 155+00.00



DESIGN ELEV 1074.56
EXISTING ELEV 1074.47

CUT AREA = 2.66ft² FILL AREA = 4.02ft²
CUT VOLUME=5.11C.Y. FILL VOLUME=6.63C.Y.

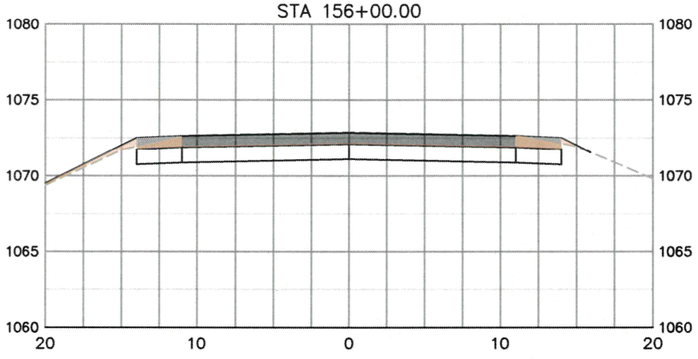
STA 155+50.00



DESIGN ELEV 1073.66
EXISTING ELEV 1073.67

CUT AREA = 4.12ft² FILL AREA = 1.70ft²
CUT VOLUME=6.28C.Y. FILL VOLUME=5.29C.Y.

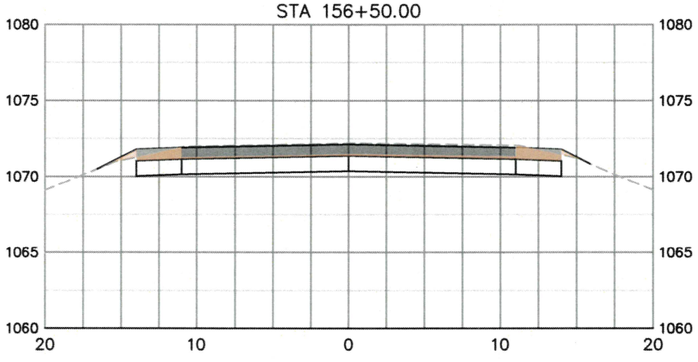
STA 156+00.00



DESIGN ELEV 1072.84
EXISTING ELEV 1072.89

CUT AREA = 5.10ft² FILL AREA = 1.81ft²
CUT VOLUME=8.54C.Y. FILL VOLUME=3.25C.Y.

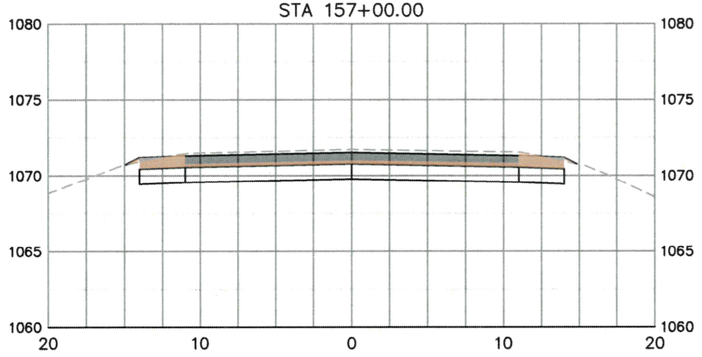
STA 156+50.00



DESIGN ELEV 1072.13
EXISTING ELEV 1072.20

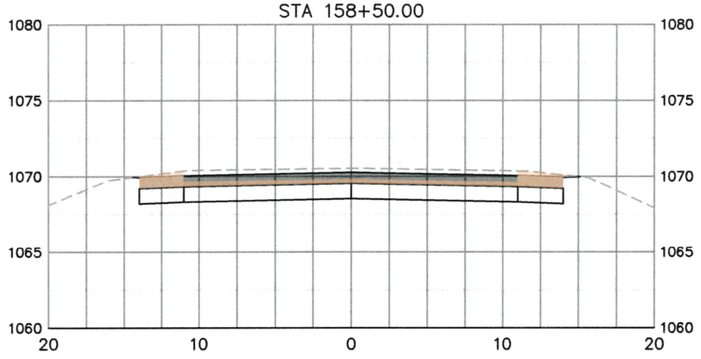
CUT AREA = 6.43ft² FILL AREA = 0.71ft²
CUT VOLUME=10.67C.Y. FILL VOLUME=2.33C.Y.

STA 157+00.00



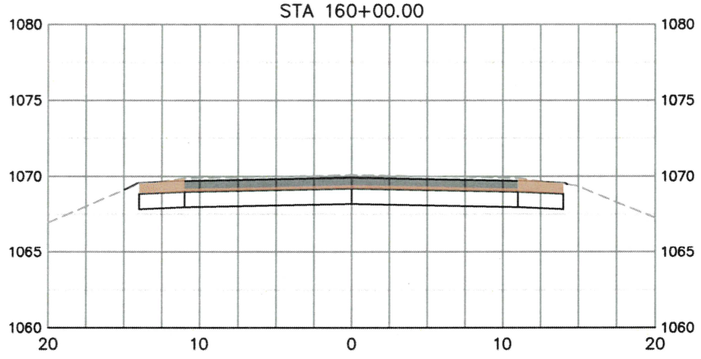
DESIGN ELEV 1071.51
EXISTING ELEV 1071.70
CUT AREA = 9.63ft² FILL AREA = 0.22ft²
CUT VOLUME=14.87C.Y. FILL VOLUME=0.86C.Y.

STA 158+50.00



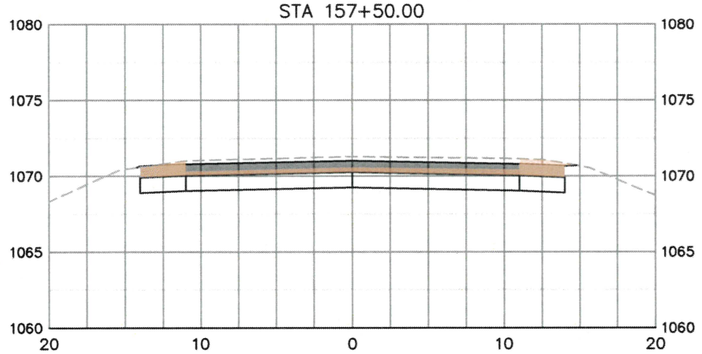
DESIGN ELEV 1070.26
EXISTING ELEV 1070.53
CUT AREA = 13.44ft² FILL AREA = 0.00ft²
CUT VOLUME=25.26C.Y. FILL VOLUME=0.00C.Y.

STA 160+00.00



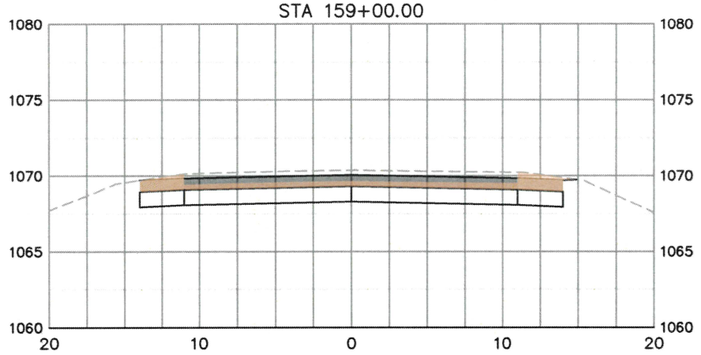
DESIGN ELEV 1069.91
EXISTING ELEV 1070.09
CUT AREA = 9.70ft² FILL AREA = 0.05ft²
CUT VOLUME=20.41C.Y. FILL VOLUME=0.05C.Y.

STA 157+50.00



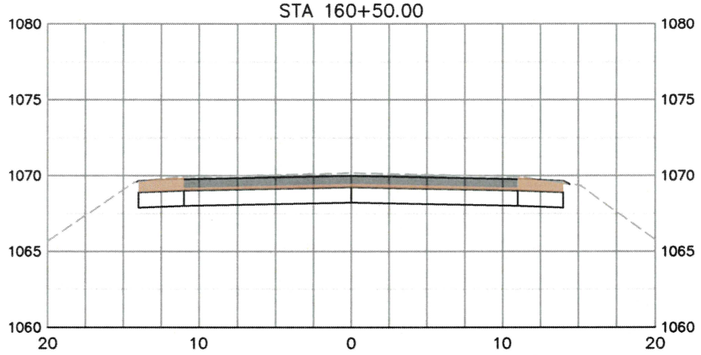
DESIGN ELEV 1071.00
EXISTING ELEV 1071.27
CUT AREA = 12.88ft² FILL AREA = 0.01ft²
CUT VOLUME=20.84C.Y. FILL VOLUME=0.21C.Y.

STA 159+00.00



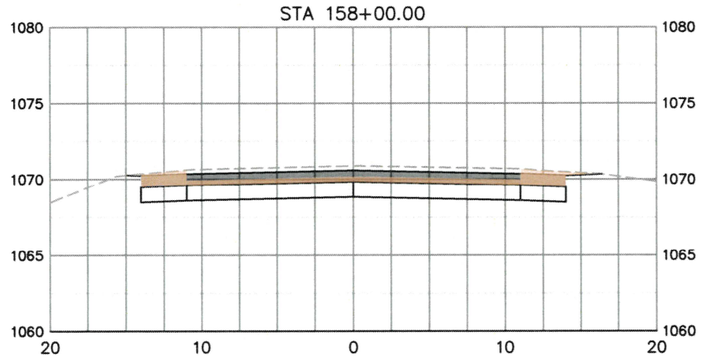
DESIGN ELEV 1070.05
EXISTING ELEV 1070.36
CUT AREA = 14.24ft² FILL AREA = 0.00ft²
CUT VOLUME=25.63C.Y. FILL VOLUME=0.00C.Y.

STA 160+50.00



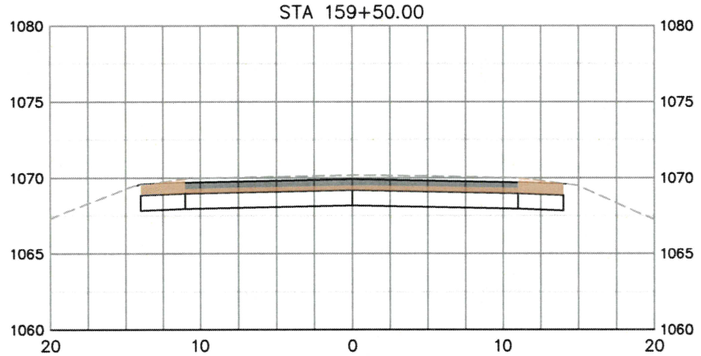
DESIGN ELEV 1069.99
EXISTING ELEV 1070.17
CUT AREA = 9.30ft² FILL AREA = 0.03ft²
CUT VOLUME=17.59C.Y. FILL VOLUME=0.07C.Y.

STA 158+00.00



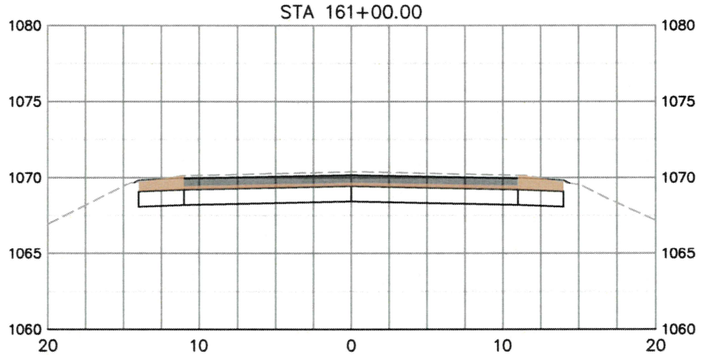
DESIGN ELEV 1070.58
EXISTING ELEV 1070.88
CUT AREA = 13.84ft² FILL AREA = 0.00ft²
CUT VOLUME=24.73C.Y. FILL VOLUME=0.01C.Y.

STA 159+50.00



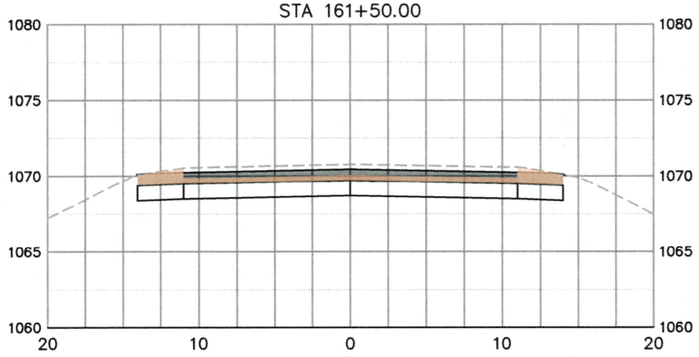
DESIGN ELEV 1069.93
EXISTING ELEV 1070.18
CUT AREA = 12.35ft² FILL AREA = 0.01ft²
CUT VOLUME=24.62C.Y. FILL VOLUME=0.01C.Y.

STA 161+00.00



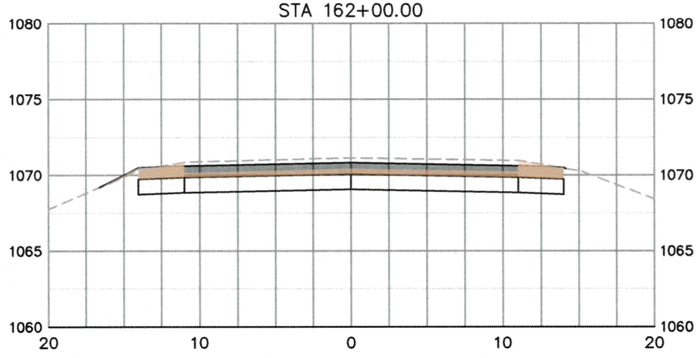
DESIGN ELEV 1070.17
EXISTING ELEV 1070.39
CUT AREA = 10.50ft² FILL AREA = 0.04ft²
CUT VOLUME=18.33C.Y. FILL VOLUME=0.07C.Y.

STA 161+50.00



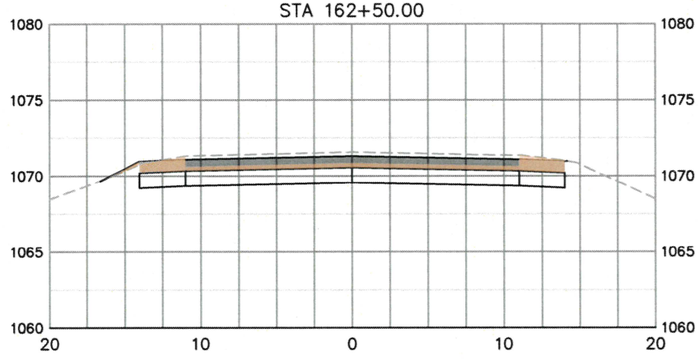
DESIGN ELEV 1070.45
EXISTING ELEV 1070.76
CUT AREA = 13.48ft² FILL AREA = 0.00ft²
CUT VOLUME=22.20C.Y. FILL VOLUME=0.04C.Y.

STA 162+00.00



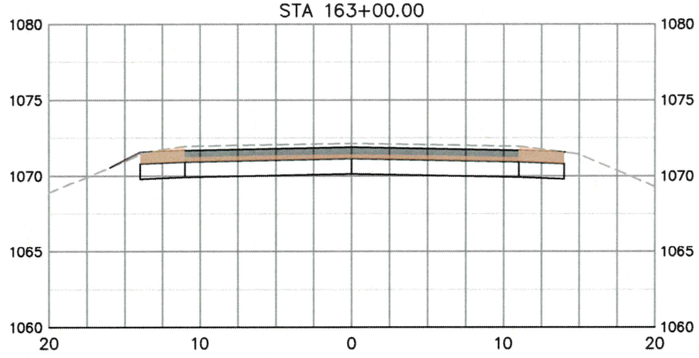
DESIGN ELEV 1070.82
EXISTING ELEV 1071.12
CUT AREA = 12.59ft² FILL AREA = 0.25ft²
CUT VOLUME=24.14C.Y. FILL VOLUME=0.23C.Y.

STA 162+50.00



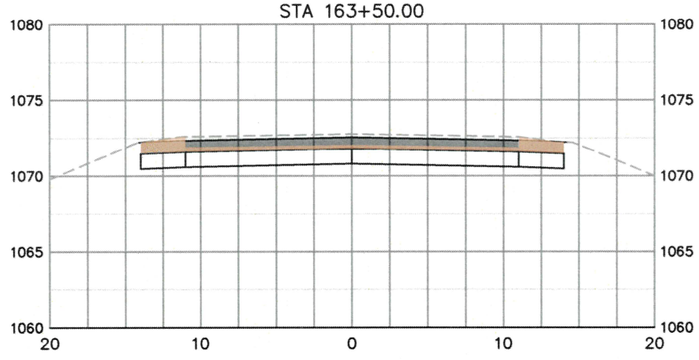
DESIGN ELEV 1071.30
EXISTING ELEV 1071.57
CUT AREA = 11.72ft² FILL AREA = 0.28ft²
CUT VOLUME=22.51C.Y. FILL VOLUME=0.49C.Y.

STA 163+00.00



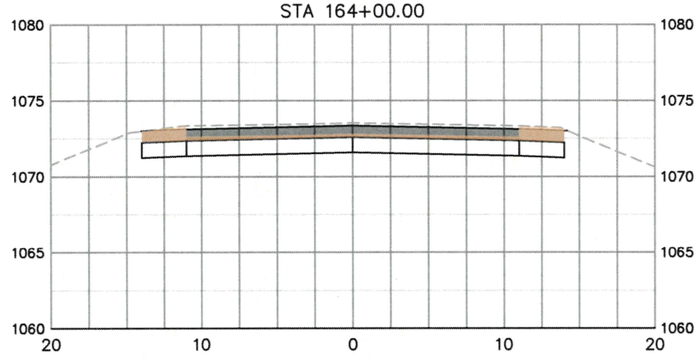
DESIGN ELEV 1071.88
EXISTING ELEV 1072.11
CUT AREA = 11.97ft² FILL AREA = 0.16ft²
CUT VOLUME=21.94C.Y. FILL VOLUME=0.41C.Y.

STA 163+50.00



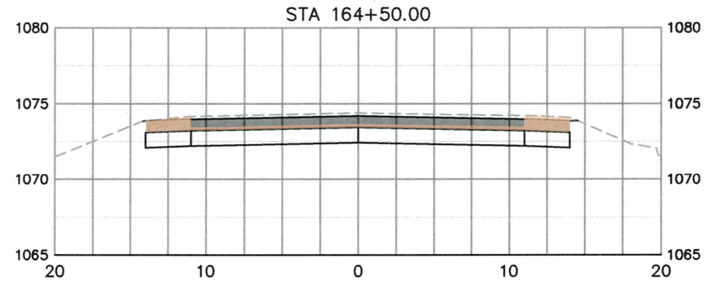
DESIGN ELEV 1072.55
EXISTING ELEV 1072.76
CUT AREA = 11.31ft² FILL AREA = 0.00ft²
CUT VOLUME=21.56C.Y. FILL VOLUME=0.15C.Y.

STA 164+00.00



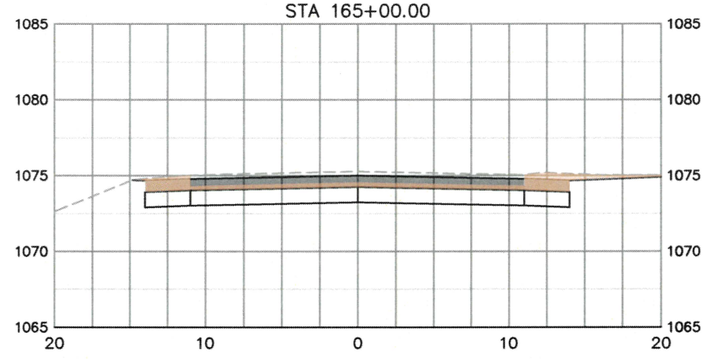
DESIGN ELEV 1073.33
EXISTING ELEV 1073.50
CUT AREA = 10.55ft² FILL AREA = 0.00ft²
CUT VOLUME=20.24C.Y. FILL VOLUME=0.00C.Y.

STA 164+50.00



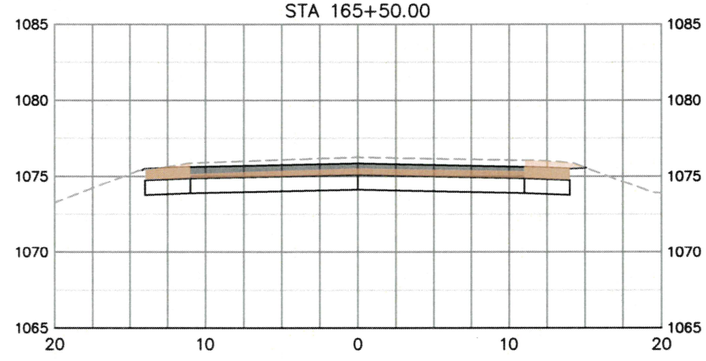
DESIGN ELEV 1074.17
EXISTING ELEV 1074.36
CUT AREA = 10.80ft² FILL AREA = 0.00ft²
CUT VOLUME=19.77C.Y. FILL VOLUME=0.00C.Y.

STA 165+00.00

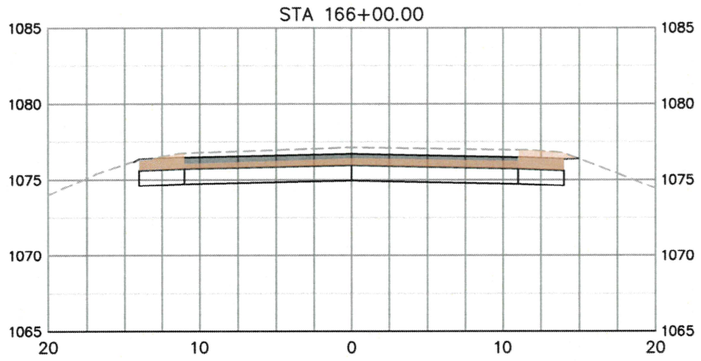


DESIGN ELEV 1075.01
EXISTING ELEV 1075.27
CUT AREA = 14.56ft² FILL AREA = 0.00ft²
CUT VOLUME=23.47C.Y. FILL VOLUME=0.00C.Y.

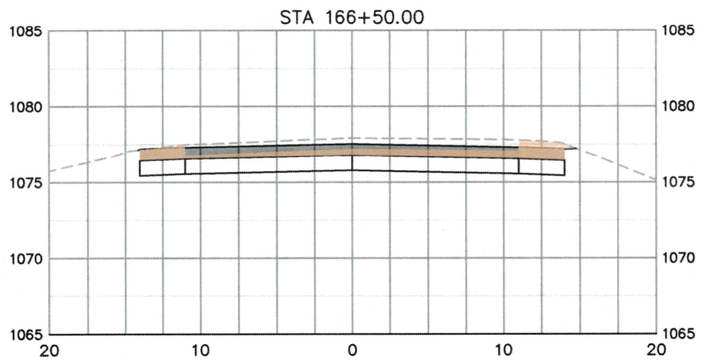
STA 165+50.00



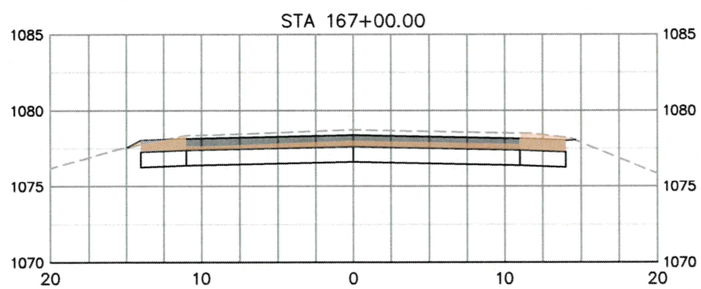
DESIGN ELEV 1075.85
EXISTING ELEV 1076.25
CUT AREA = 15.35ft² FILL AREA = 0.01ft²
CUT VOLUME=27.69C.Y. FILL VOLUME=0.00C.Y.



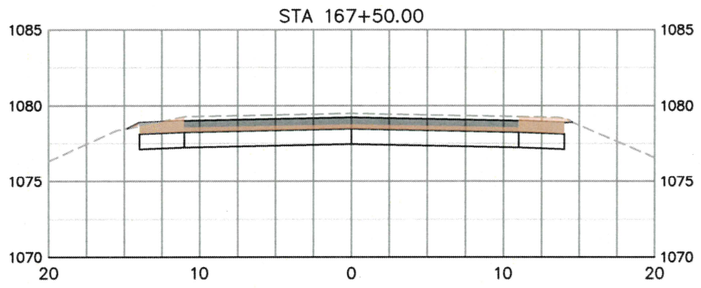
DESIGN ELEV 1076.69
EXISTING ELEV 1077.12
CUT AREA = 16.22ft² FILL AREA = 0.02ft²
CUT VOLUME=29.23C.Y. FILL VOLUME=0.02C.Y.



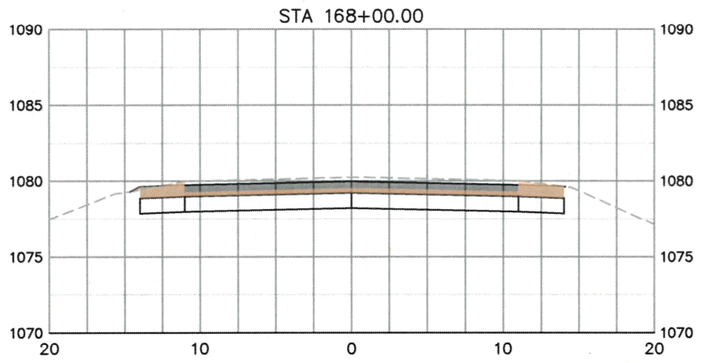
DESIGN ELEV 1077.53
EXISTING ELEV 1077.92
CUT AREA = 15.21ft² FILL AREA = 0.00ft²
CUT VOLUME=29.10C.Y. FILL VOLUME=0.02C.Y.



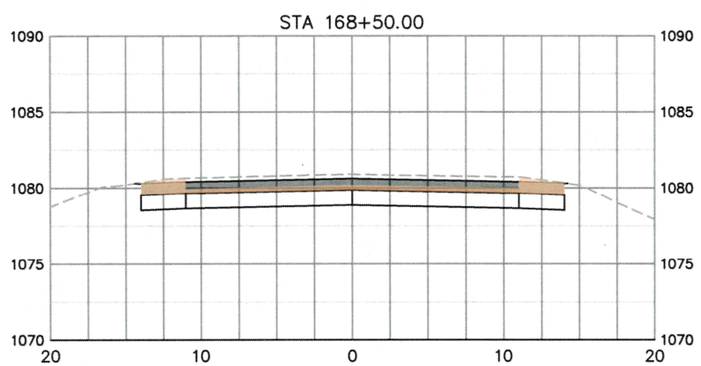
DESIGN ELEV 1078.36
EXISTING ELEV 1078.71
CUT AREA = 12.91ft² FILL AREA = 0.12ft²
CUT VOLUME=26.03C.Y. FILL VOLUME=0.12C.Y.



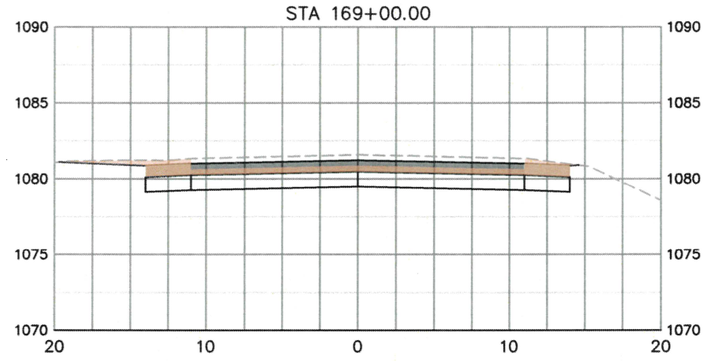
DESIGN ELEV 1079.20
EXISTING ELEV 1079.46
CUT AREA = 12.14ft² FILL AREA = 0.09ft²
CUT VOLUME=23.19C.Y. FILL VOLUME=0.20C.Y.



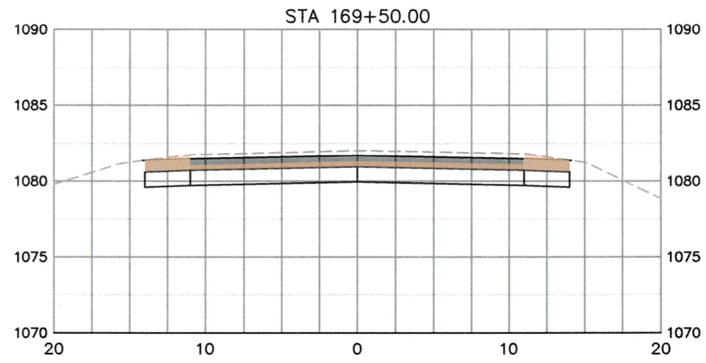
DESIGN ELEV 1079.96
EXISTING ELEV 1080.24
CUT AREA = 11.80ft² FILL AREA = 0.06ft²
CUT VOLUME=22.16C.Y. FILL VOLUME=0.15C.Y.



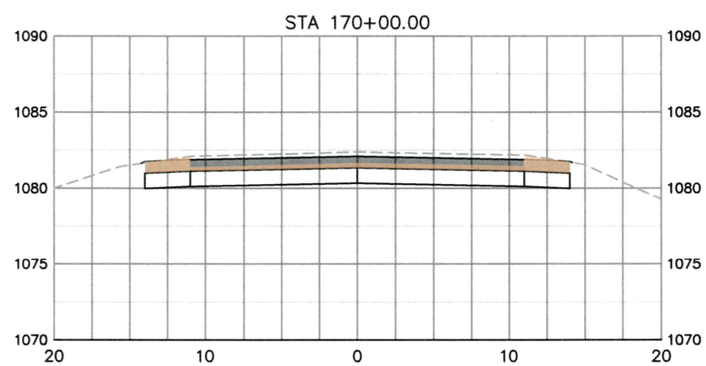
DESIGN ELEV 1080.63
EXISTING ELEV 1080.91
CUT AREA = 12.69ft² FILL AREA = 0.00ft²
CUT VOLUME=22.67C.Y. FILL VOLUME=0.06C.Y.



DESIGN ELEV 1081.21
EXISTING ELEV 1081.57
CUT AREA = 15.95ft² FILL AREA = 0.00ft²
CUT VOLUME=26.52C.Y. FILL VOLUME=0.00C.Y.

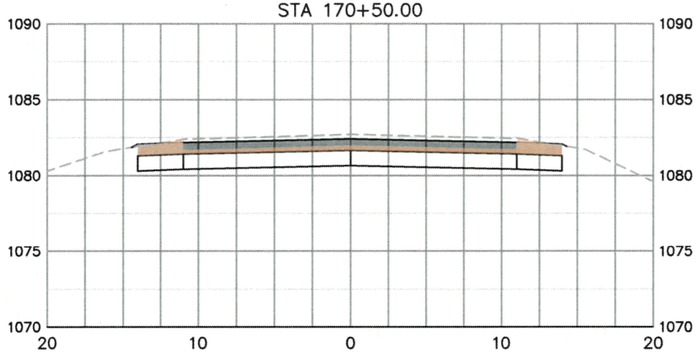


DESIGN ELEV 1081.69
EXISTING ELEV 1082.02
CUT AREA = 13.50ft² FILL AREA = 0.00ft²
CUT VOLUME=27.28C.Y. FILL VOLUME=0.00C.Y.



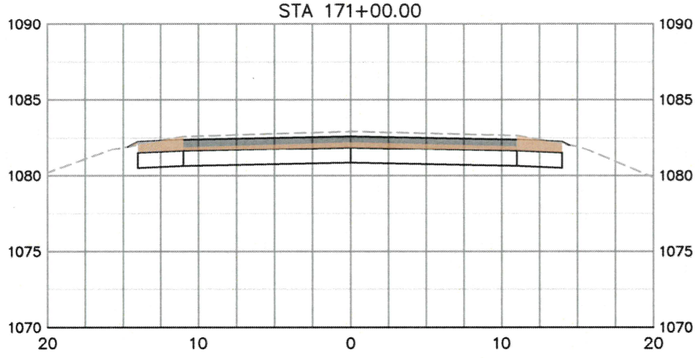
DESIGN ELEV 1082.09
EXISTING ELEV 1082.38
CUT AREA = 12.01ft² FILL AREA = 0.01ft²
CUT VOLUME=23.62C.Y. FILL VOLUME=0.01C.Y.

STA 170+50.00



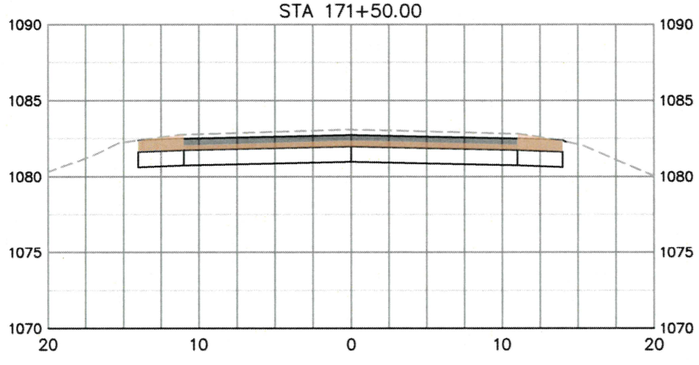
DESIGN ELEV 1082.39
EXISTING ELEV 1082.69
CUT AREA = 11.56ft² FILL AREA = 0.04ft²
CUT VOLUME=21.83C.Y. FILL VOLUME=0.05C.Y.

STA 171+00.00



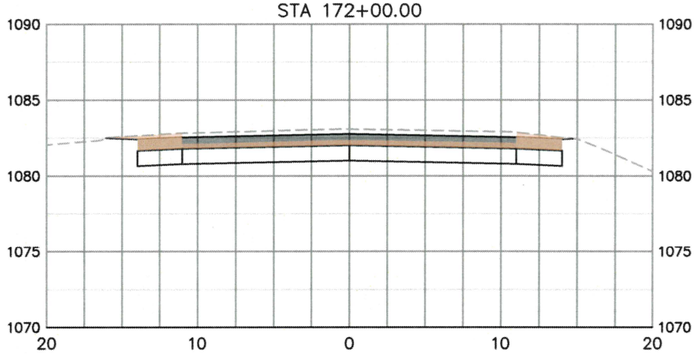
DESIGN ELEV 1082.60
EXISTING ELEV 1082.92
CUT AREA = 11.88ft² FILL AREA = 0.11ft²
CUT VOLUME=21.71C.Y. FILL VOLUME=0.14C.Y.

STA 171+50.00



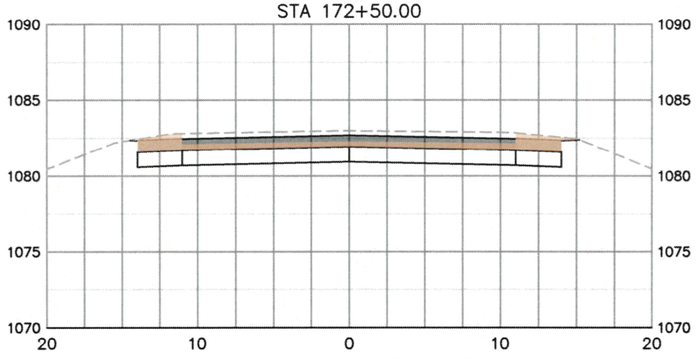
DESIGN ELEV 1082.72
EXISTING ELEV 1083.07
CUT AREA = 13.29ft² FILL AREA = 0.01ft²
CUT VOLUME=23.31C.Y. FILL VOLUME=0.11C.Y.

STA 172+00.00



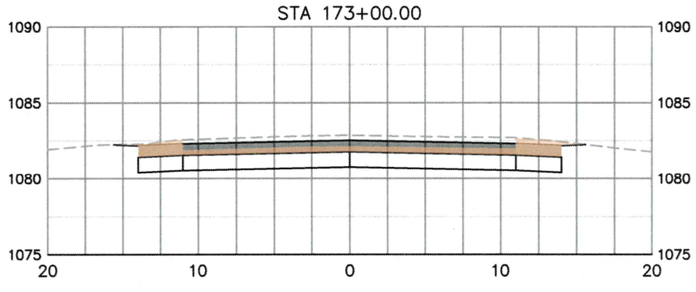
DESIGN ELEV 1082.74
EXISTING ELEV 1083.06
CUT AREA = 14.10ft² FILL AREA = 0.00ft²
CUT VOLUME=25.37C.Y. FILL VOLUME=0.01C.Y.

STA 172+50.00



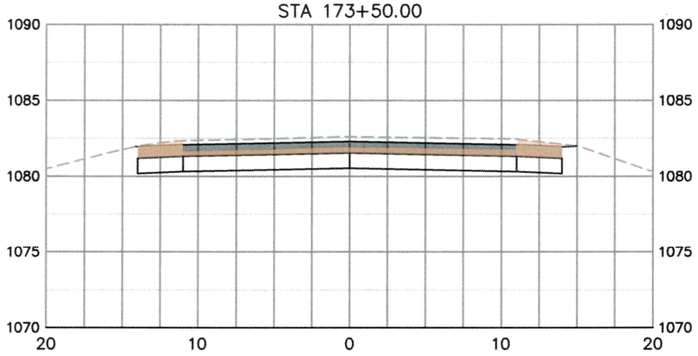
DESIGN ELEV 1082.68
EXISTING ELEV 1082.98
CUT AREA = 14.86ft² FILL AREA = 0.00ft²
CUT VOLUME=26.81C.Y. FILL VOLUME=0.00C.Y.

STA 173+00.00



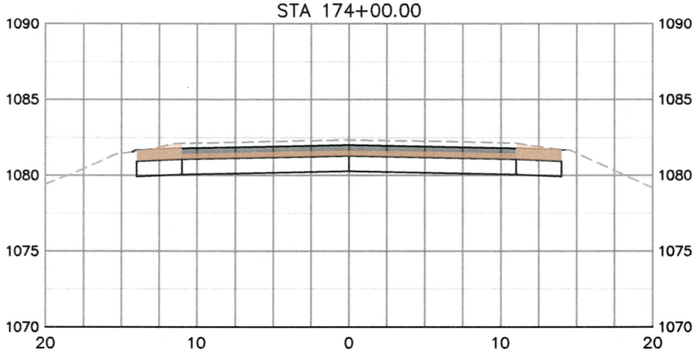
DESIGN ELEV 1082.52
EXISTING ELEV 1082.84
CUT AREA = 14.68ft² FILL AREA = 0.00ft²
CUT VOLUME=27.35C.Y. FILL VOLUME=0.00C.Y.

STA 173+50.00



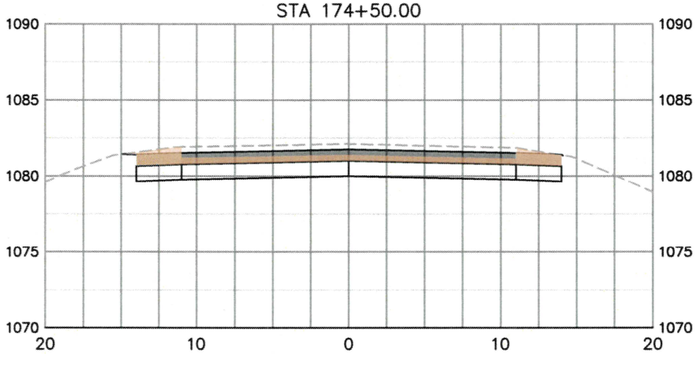
DESIGN ELEV 1082.27
EXISTING ELEV 1082.59
CUT AREA = 13.91ft² FILL AREA = 0.00ft²
CUT VOLUME=26.47C.Y. FILL VOLUME=0.00C.Y.

STA 174+00.00



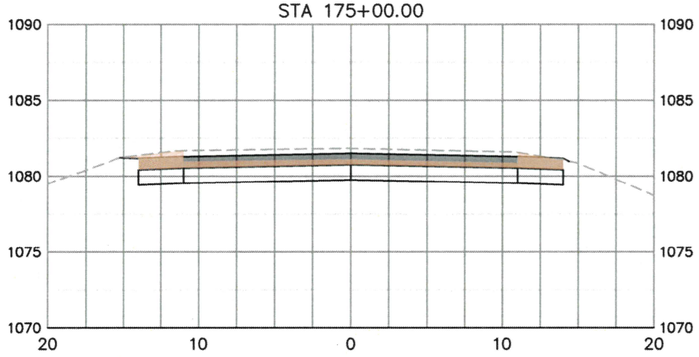
DESIGN ELEV 1082.01
EXISTING ELEV 1082.34
CUT AREA = 13.97ft² FILL AREA = 0.01ft²
CUT VOLUME=25.81C.Y. FILL VOLUME=0.01C.Y.

STA 174+50.00



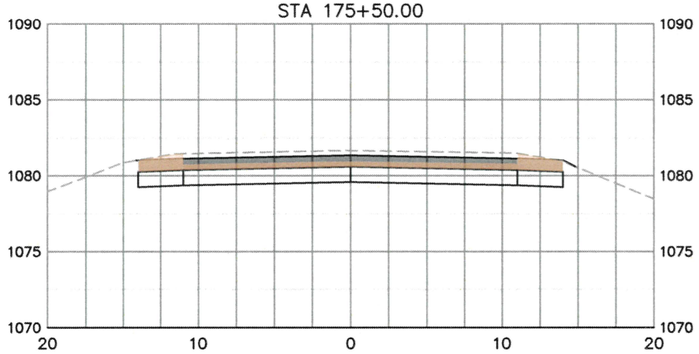
DESIGN ELEV 1081.75
EXISTING ELEV 1082.11
CUT AREA = 14.69ft² FILL AREA = 0.00ft²
CUT VOLUME=26.54C.Y. FILL VOLUME=0.01C.Y.

STA 175+00.00



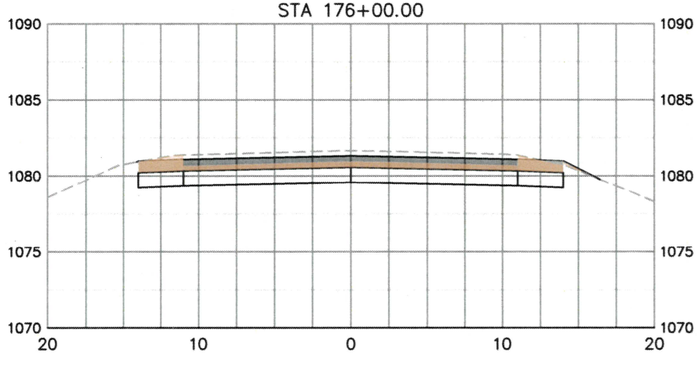
DESIGN ELEV 1081.49
EXISTING ELEV 1081.82
CUT AREA = 14.24ft² FILL AREA = 0.02ft²
CUT VOLUME=26.78C.Y. FILL VOLUME=0.02C.Y.

STA 175+50.00



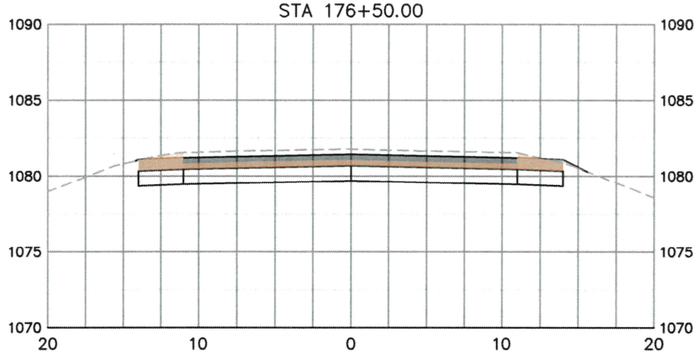
DESIGN ELEV 1081.34
EXISTING ELEV 1081.64
CUT AREA = 13.65ft² FILL AREA = 0.03ft²
CUT VOLUME=25.82C.Y. FILL VOLUME=0.05C.Y.

STA 176+00.00



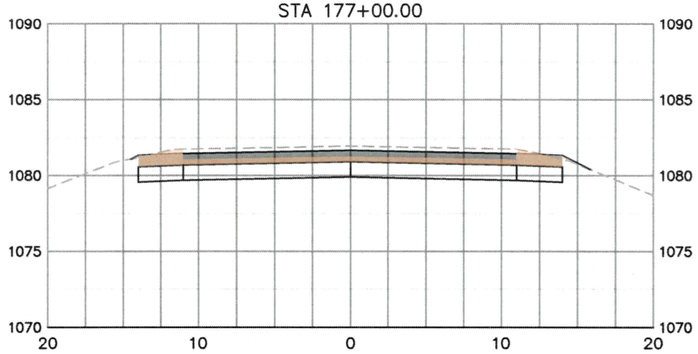
DESIGN ELEV 1081.31
EXISTING ELEV 1081.66
CUT AREA = 13.05ft² FILL AREA = 0.27ft²
CUT VOLUME=24.72C.Y. FILL VOLUME=0.28C.Y.

STA 176+50.00



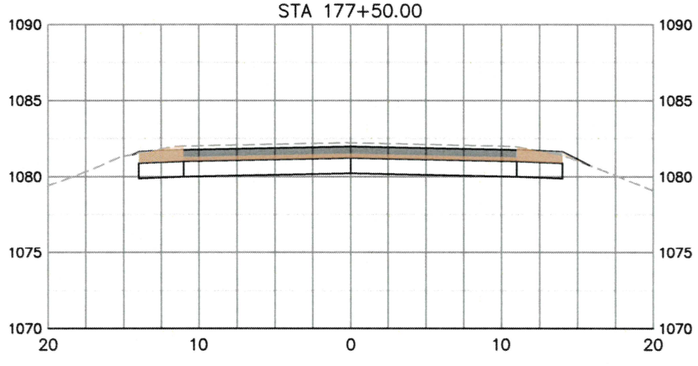
DESIGN ELEV 1081.42
EXISTING ELEV 1081.77
CUT AREA = 13.65ft² FILL AREA = 0.16ft²
CUT VOLUME=24.72C.Y. FILL VOLUME=0.40C.Y.

STA 177+00.00



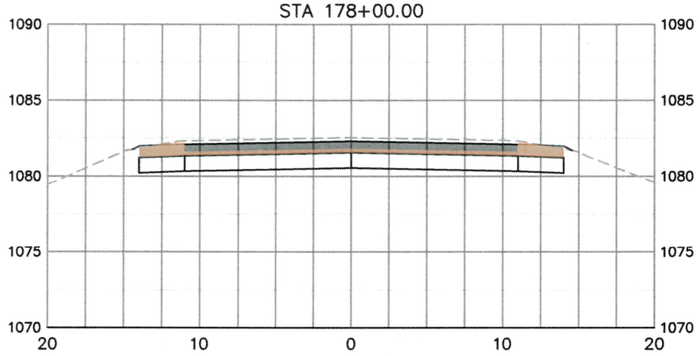
DESIGN ELEV 1081.66
EXISTING ELEV 1081.96
CUT AREA = 12.71ft² FILL AREA = 0.21ft²
CUT VOLUME=24.41C.Y. FILL VOLUME=0.35C.Y.

STA 177+50.00



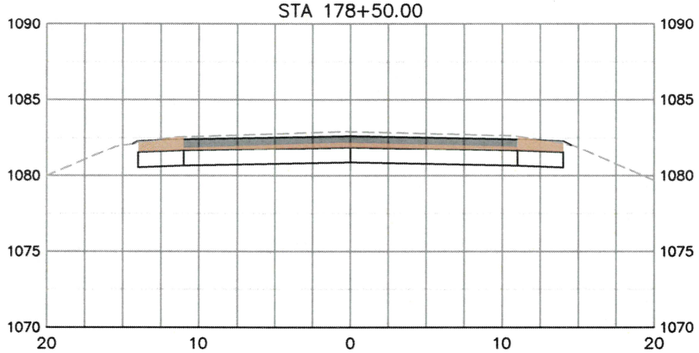
DESIGN ELEV 1081.98
EXISTING ELEV 1082.21
CUT AREA = 10.85ft² FILL AREA = 0.22ft²
CUT VOLUME=21.82C.Y. FILL VOLUME=0.40C.Y.

STA 178+00.00



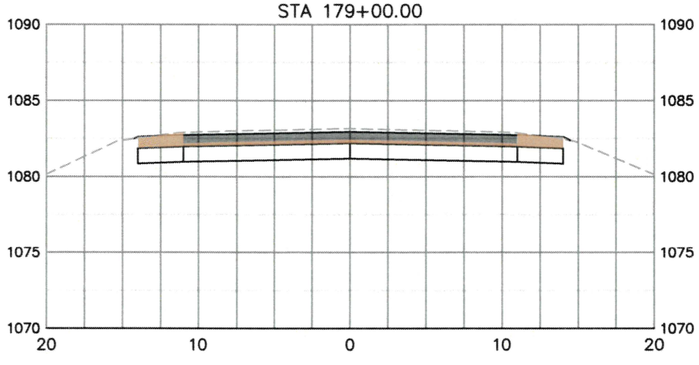
DESIGN ELEV 1082.30
EXISTING ELEV 1082.53
CUT AREA = 10.84ft² FILL AREA = 0.07ft²
CUT VOLUME=20.09C.Y. FILL VOLUME=0.27C.Y.

STA 178+50.00

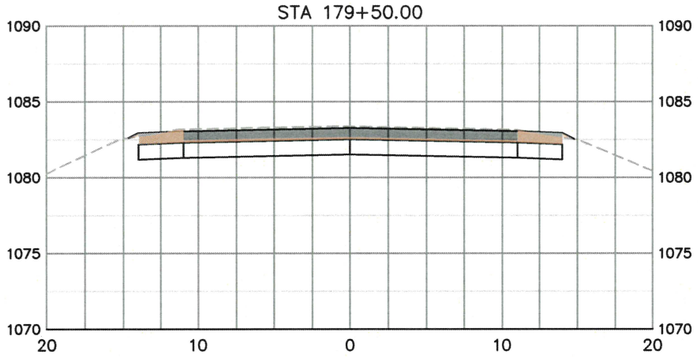


DESIGN ELEV 1082.62
EXISTING ELEV 1082.90
CUT AREA = 11.01ft² FILL AREA = 0.06ft²
CUT VOLUME=20.24C.Y. FILL VOLUME=0.13C.Y.

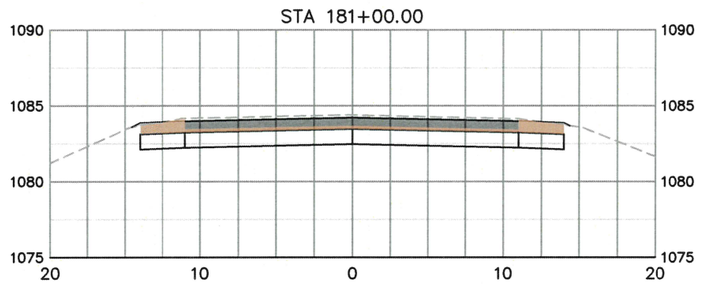
STA 179+00.00



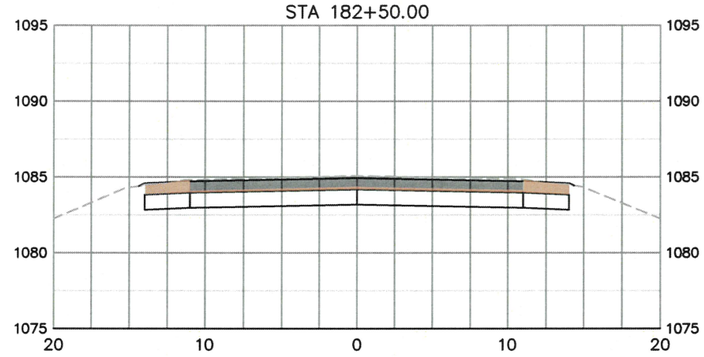
DESIGN ELEV 1082.94
EXISTING ELEV 1083.14
CUT AREA = 9.80ft² FILL AREA = 0.05ft²
CUT VOLUME=19.27C.Y. FILL VOLUME=0.10C.Y.



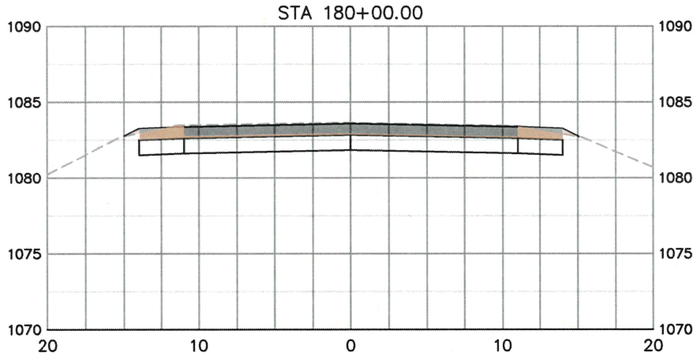
DESIGN ELEV 1083.26
EXISTING ELEV 1083.37
CUT AREA = 7.58ft² FILL AREA = 0.19ft²
CUT VOLUME=16.09C.Y. FILL VOLUME=0.22C.Y.



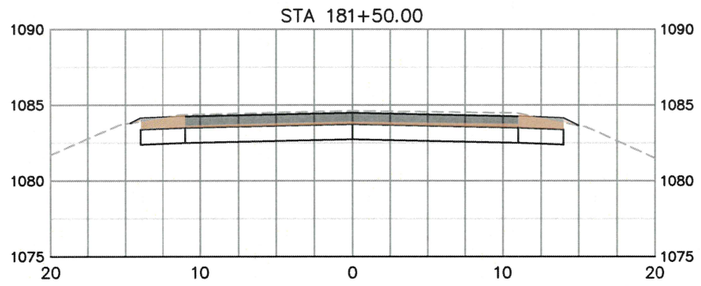
DESIGN ELEV 1084.21
EXISTING ELEV 1084.38
CUT AREA = 9.20ft² FILL AREA = 0.08ft²
CUT VOLUME=15.41C.Y. FILL VOLUME=0.28C.Y.



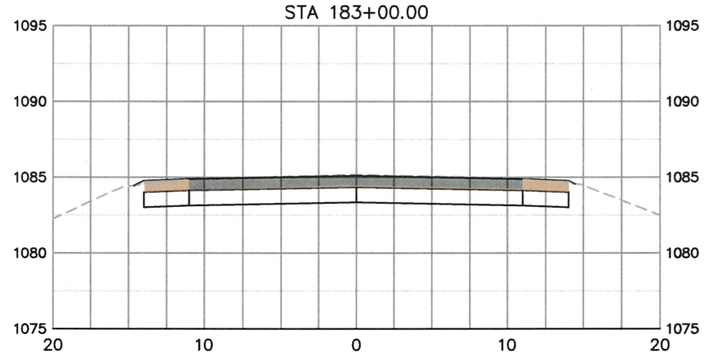
DESIGN ELEV 1084.92
EXISTING ELEV 1085.08
CUT AREA = 8.44ft² FILL AREA = 0.05ft²
CUT VOLUME=16.06C.Y. FILL VOLUME=0.07C.Y.



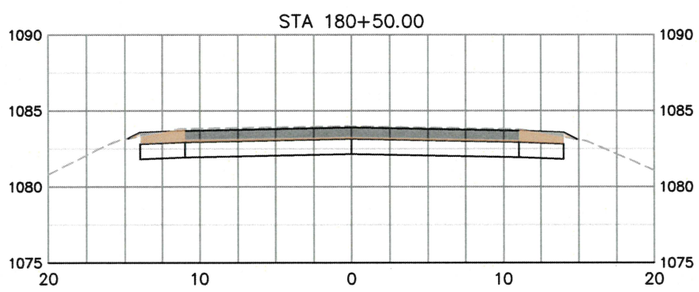
DESIGN ELEV 1083.59
EXISTING ELEV 1083.65
CUT AREA = 6.60ft² FILL AREA = 0.33ft²
CUT VOLUME=13.13C.Y. FILL VOLUME=0.48C.Y.



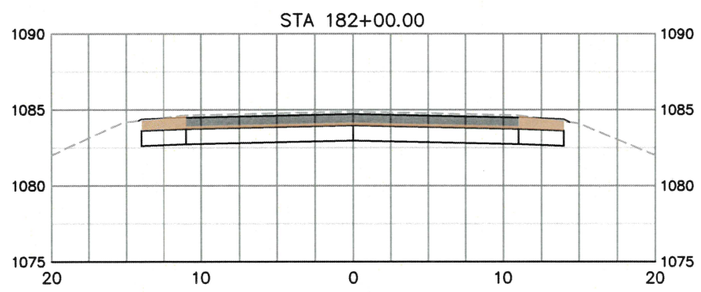
DESIGN ELEV 1084.48
EXISTING ELEV 1084.61
CUT AREA = 8.51ft² FILL AREA = 0.22ft²
CUT VOLUME=16.40C.Y. FILL VOLUME=0.27C.Y.



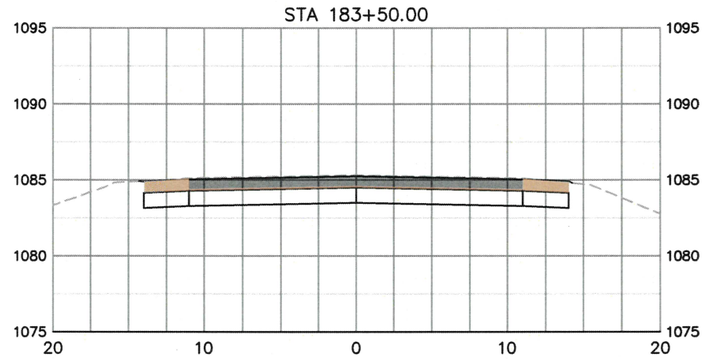
DESIGN ELEV 1085.10
EXISTING ELEV 1085.18
CUT AREA = 6.21ft² FILL AREA = 0.10ft²
CUT VOLUME=13.57C.Y. FILL VOLUME=0.14C.Y.



DESIGN ELEV 1083.91
EXISTING ELEV 1083.99
CUT AREA = 7.44ft² FILL AREA = 0.22ft²
CUT VOLUME=13.00C.Y. FILL VOLUME=0.51C.Y.

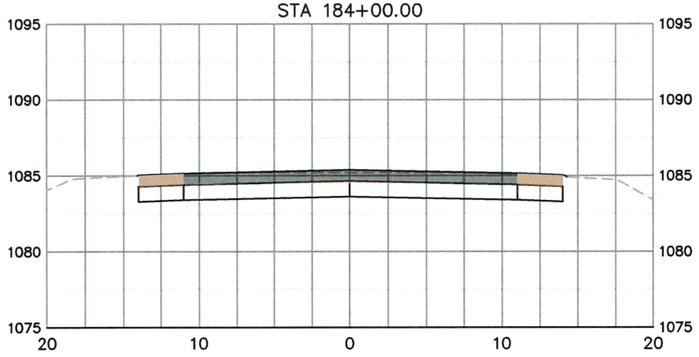


DESIGN ELEV 1084.71
EXISTING ELEV 1084.87
CUT AREA = 8.90ft² FILL AREA = 0.03ft²
CUT VOLUME=16.12C.Y. FILL VOLUME=0.23C.Y.



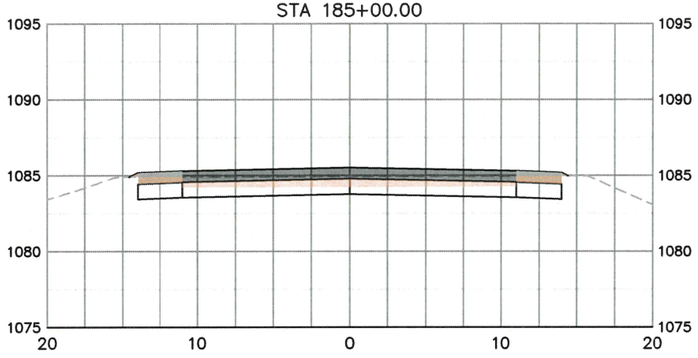
DESIGN ELEV 1085.25
EXISTING ELEV 1085.33
CUT AREA = 7.43ft² FILL AREA = 0.01ft²
CUT VOLUME=12.64C.Y. FILL VOLUME=0.10C.Y.

STA 184+00.00



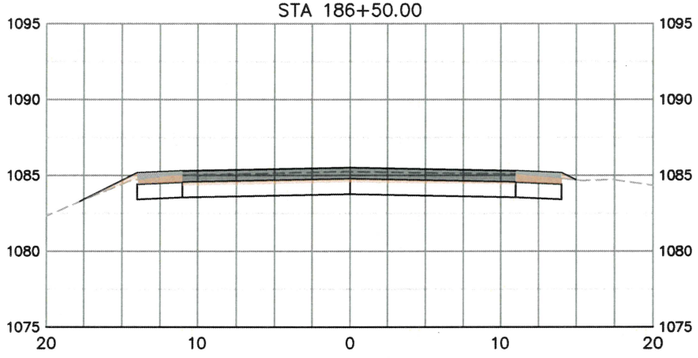
DESIGN ELEV 1085.37
EXISTING ELEV 1085.19
CUT AREA = 4.35ft² FILL AREA = 0.98ft²
CUT VOLUME=10.91C.Y. FILL VOLUME=0.92C.Y.

STA 185+00.00



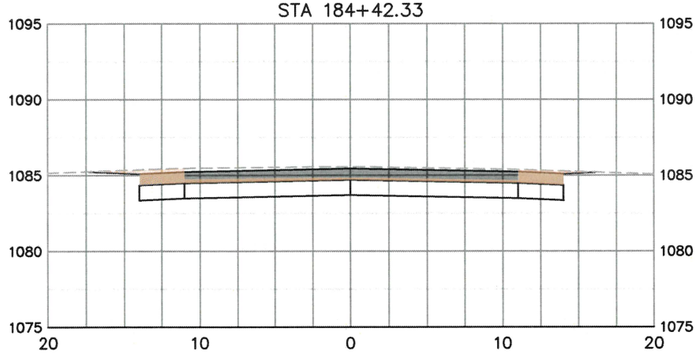
DESIGN ELEV 1085.52
EXISTING ELEV 1084.92
CUT AREA = 2.67ft² FILL AREA = 9.78ft²
CUT VOLUME=11.37C.Y. FILL VOLUME=9.06C.Y.

STA 186+50.00



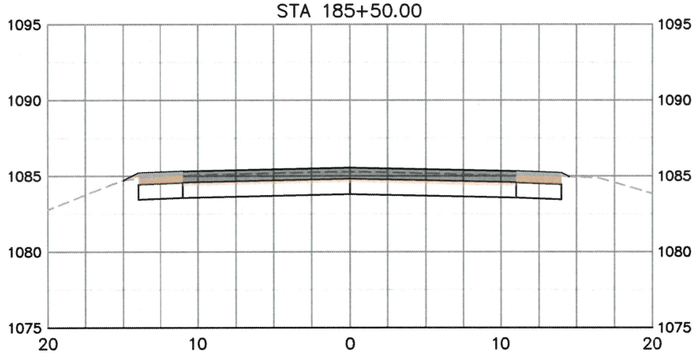
DESIGN ELEV 1085.51
EXISTING ELEV 1085.24
CUT AREA = 2.62ft² FILL AREA = 5.67ft²
CUT VOLUME=4.78C.Y. FILL VOLUME=10.87C.Y.

STA 184+42.33



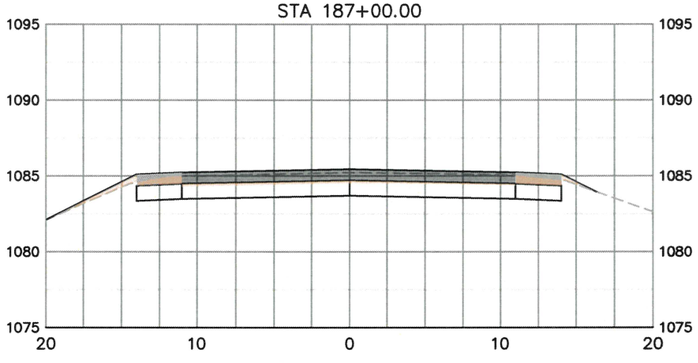
DESIGN ELEV 1085.45
EXISTING ELEV 1085.56
CUT AREA = 10.99ft² FILL AREA = 0.00ft²
CUT VOLUME=12.03C.Y. FILL VOLUME=0.77C.Y.

STA 185+50.00



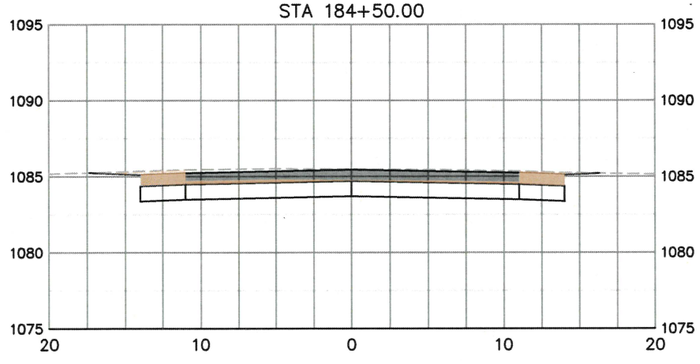
DESIGN ELEV 1085.54
EXISTING ELEV 1085.26
CUT AREA = 2.74ft² FILL AREA = 5.37ft²
CUT VOLUME=5.01C.Y. FILL VOLUME=14.03C.Y.

STA 187+00.00



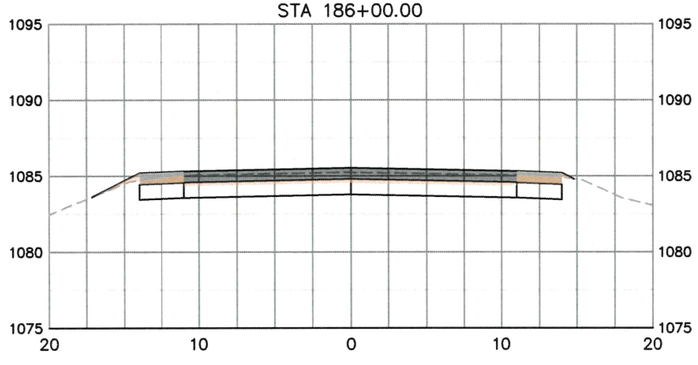
DESIGN ELEV 1085.45
EXISTING ELEV 1085.22
CUT AREA = 2.68ft² FILL AREA = 5.42ft²
CUT VOLUME=4.90C.Y. FILL VOLUME=10.27C.Y.

STA 184+50.00



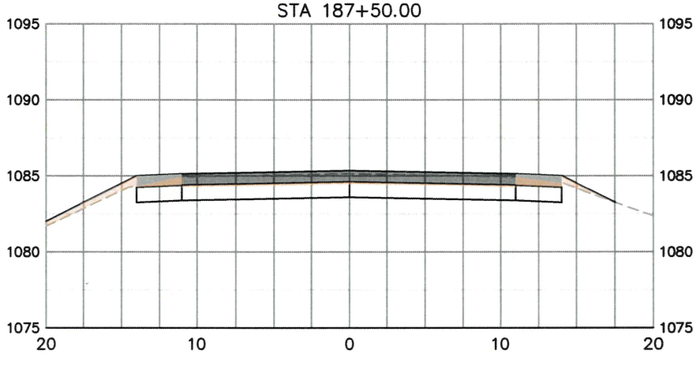
DESIGN ELEV 1085.46
EXISTING ELEV 1085.49
CUT AREA = 9.61ft² FILL AREA = 0.00ft²
CUT VOLUME=2.93C.Y. FILL VOLUME=0.00C.Y.

STA 186+00.00

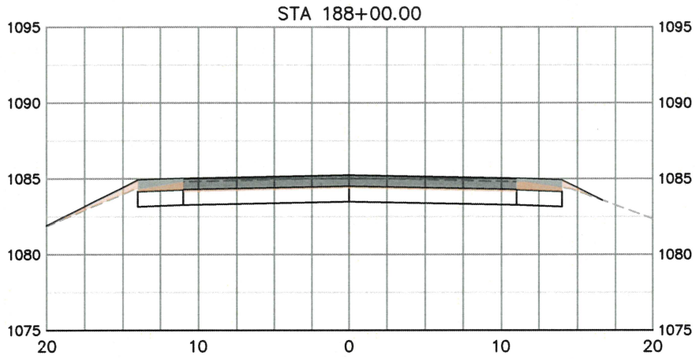


DESIGN ELEV 1085.54
EXISTING ELEV 1085.23
CUT AREA = 2.55ft² FILL AREA = 6.07ft²
CUT VOLUME=4.90C.Y. FILL VOLUME=10.60C.Y.

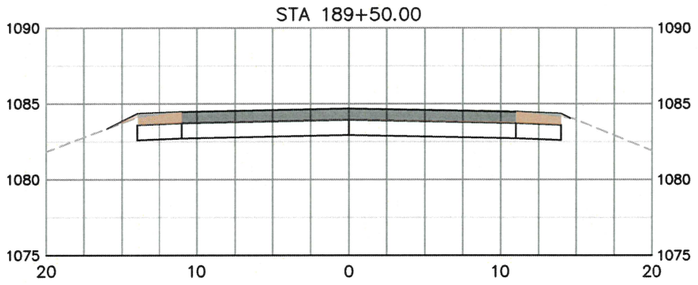
STA 187+50.00



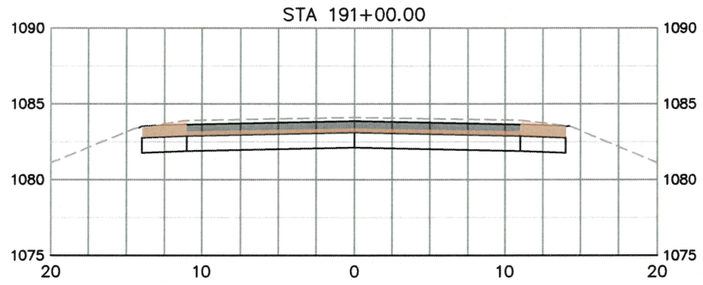
DESIGN ELEV 1085.35
EXISTING ELEV 1085.15
CUT AREA = 2.22ft² FILL AREA = 6.82ft²
CUT VOLUME=4.53C.Y. FILL VOLUME=11.33C.Y.



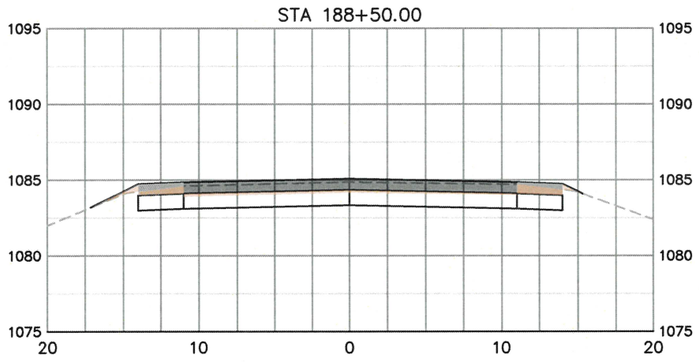
DESIGN ELEV 1085.23
EXISTING ELEV 1085.05
CUT AREA = 2.35ft² FILL AREA = 5.52ft²
CUT VOLUME=4.23C.Y. FILL VOLUME=11.42C.Y.



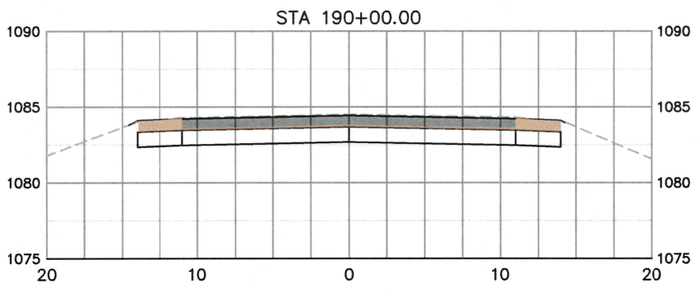
DESIGN ELEV 1084.68
EXISTING ELEV 1084.67
CUT AREA = 4.93ft² FILL AREA = 0.31ft²
CUT VOLUME=7.71C.Y. FILL VOLUME=2.06C.Y.



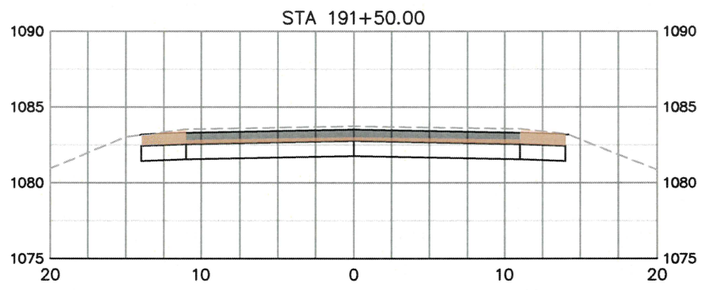
DESIGN ELEV 1083.86
EXISTING ELEV 1084.10
CUT AREA = 11.90ft² FILL AREA = 0.01ft²
CUT VOLUME=20.14C.Y. FILL VOLUME=0.01C.Y.



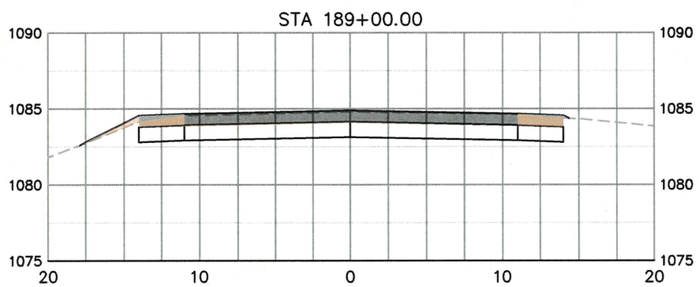
DESIGN ELEV 1085.08
EXISTING ELEV 1084.86
CUT AREA = 2.57ft² FILL AREA = 4.50ft²
CUT VOLUME=4.56C.Y. FILL VOLUME=9.27C.Y.



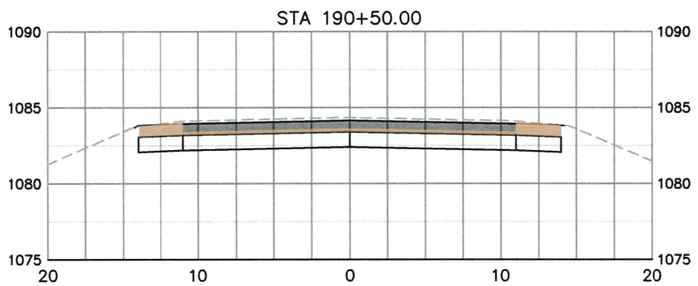
DESIGN ELEV 1084.43
EXISTING ELEV 1084.52
CUT AREA = 7.20ft² FILL AREA = 0.04ft²
CUT VOLUME=11.24C.Y. FILL VOLUME=0.32C.Y.



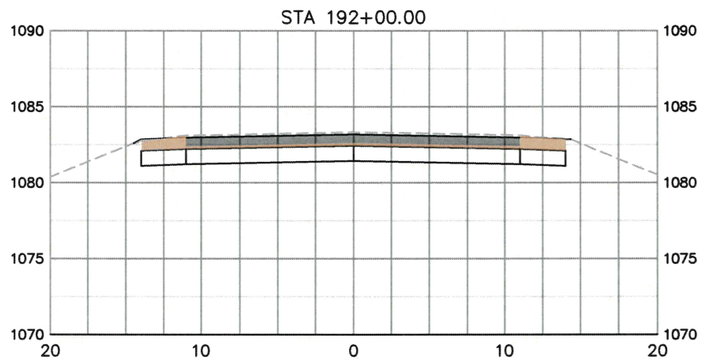
DESIGN ELEV 1083.52
EXISTING ELEV 1083.73
CUT AREA = 11.22ft² FILL AREA = 0.00ft²
CUT VOLUME=21.41C.Y. FILL VOLUME=0.01C.Y.



DESIGN ELEV 1084.89
EXISTING ELEV 1084.79
CUT AREA = 3.39ft² FILL AREA = 1.92ft²
CUT VOLUME=5.52C.Y. FILL VOLUME=5.94C.Y.

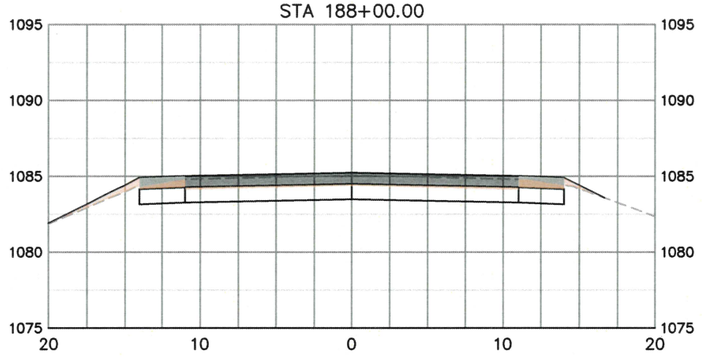


DESIGN ELEV 1084.16
EXISTING ELEV 1084.34
CUT AREA = 9.85ft² FILL AREA = 0.01ft²
CUT VOLUME=15.79C.Y. FILL VOLUME=0.05C.Y.



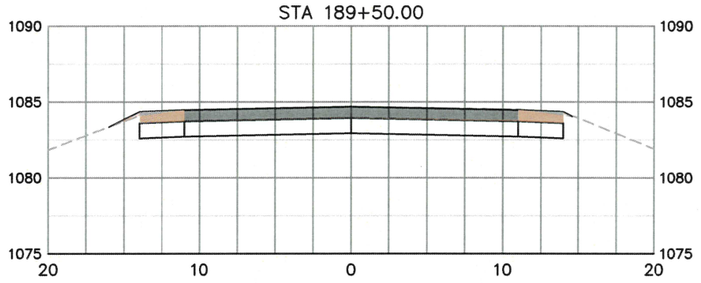
DESIGN ELEV 1083.19
EXISTING ELEV 1083.33
CUT AREA = 9.01ft² FILL AREA = 0.04ft²
CUT VOLUME=18.73C.Y. FILL VOLUME=0.03C.Y.

STA 188+00.00



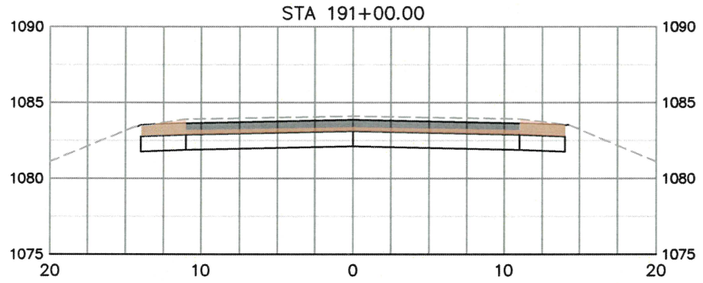
DESIGN ELEV 1085.23
EXISTING ELEV 1085.05
CUT AREA = 2.35ft² FILL AREA = 5.52ft²
CUT VOLUME=4.23C.Y. FILL VOLUME=11.42C.Y.

STA 189+50.00



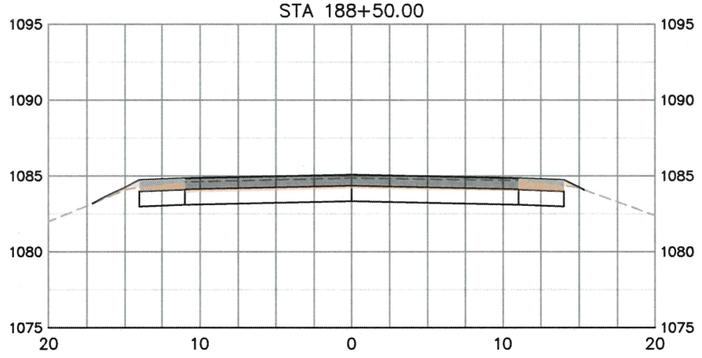
DESIGN ELEV 1084.68
EXISTING ELEV 1084.67
CUT AREA = 4.93ft² FILL AREA = 0.31ft²
CUT VOLUME=7.71C.Y. FILL VOLUME=2.06C.Y.

STA 191+00.00



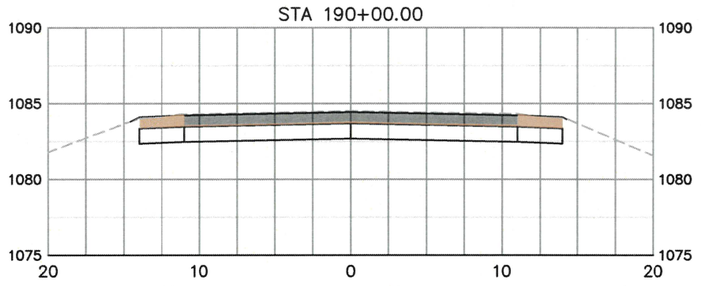
DESIGN ELEV 1083.86
EXISTING ELEV 1084.10
CUT AREA = 11.90ft² FILL AREA = 0.01ft²
CUT VOLUME=20.14C.Y. FILL VOLUME=0.01C.Y.

STA 188+50.00



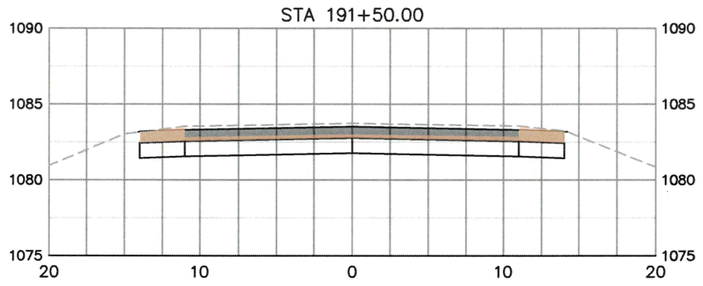
DESIGN ELEV 1085.08
EXISTING ELEV 1084.86
CUT AREA = 2.57ft² FILL AREA = 4.50ft²
CUT VOLUME=4.56C.Y. FILL VOLUME=9.27C.Y.

STA 190+00.00



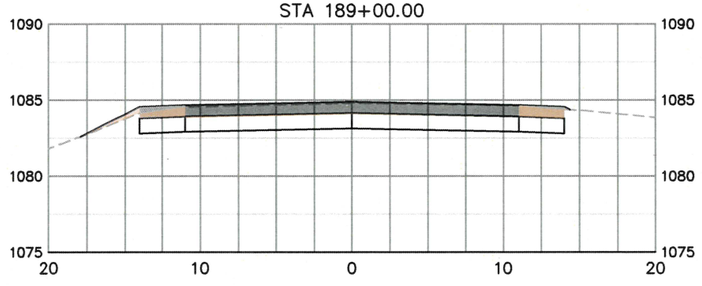
DESIGN ELEV 1084.43
EXISTING ELEV 1084.52
CUT AREA = 7.20ft² FILL AREA = 0.04ft²
CUT VOLUME=11.24C.Y. FILL VOLUME=0.32C.Y.

STA 191+50.00



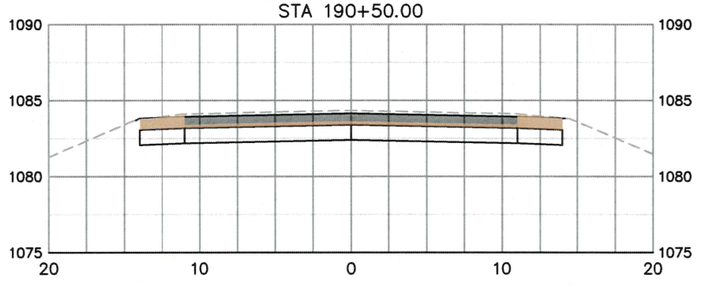
DESIGN ELEV 1083.52
EXISTING ELEV 1083.73
CUT AREA = 11.22ft² FILL AREA = 0.00ft²
CUT VOLUME=21.41C.Y. FILL VOLUME=0.01C.Y.

STA 189+00.00



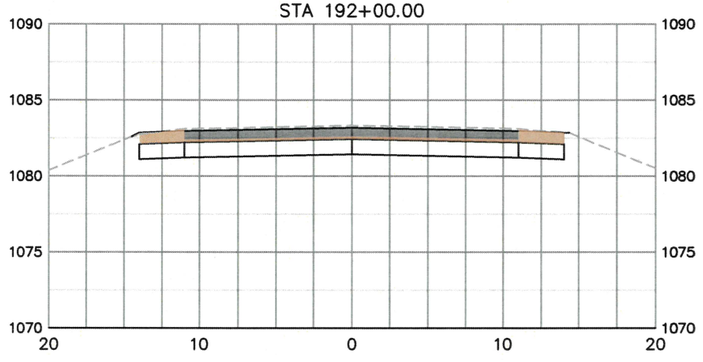
DESIGN ELEV 1084.89
EXISTING ELEV 1084.79
CUT AREA = 3.39ft² FILL AREA = 1.92ft²
CUT VOLUME=5.52C.Y. FILL VOLUME=5.94C.Y.

STA 190+50.00

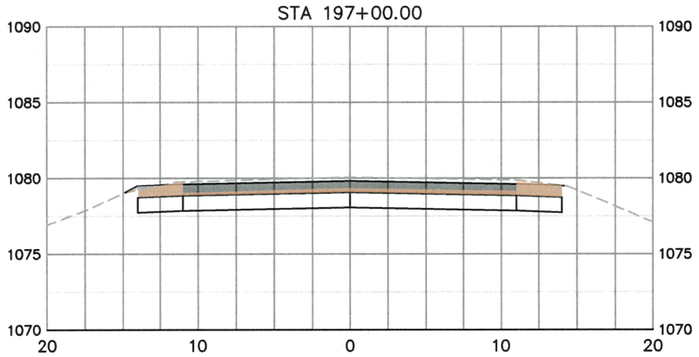


DESIGN ELEV 1084.16
EXISTING ELEV 1084.34
CUT AREA = 9.85ft² FILL AREA = 0.01ft²
CUT VOLUME=15.79C.Y. FILL VOLUME=0.05C.Y.

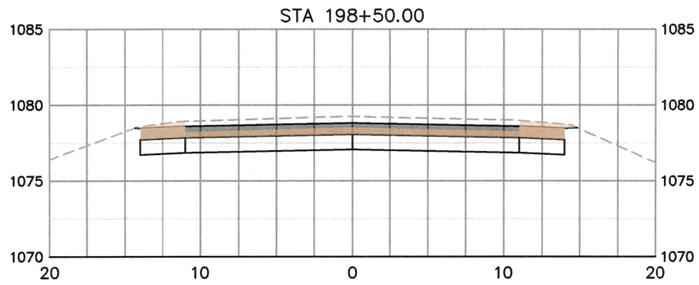
STA 192+00.00



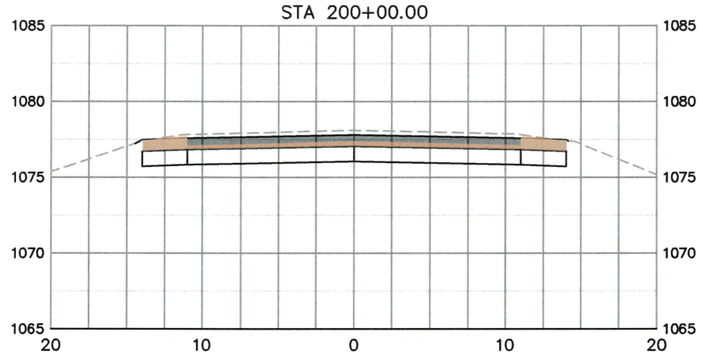
DESIGN ELEV 1083.19
EXISTING ELEV 1083.33
CUT AREA = 9.01ft² FILL AREA = 0.04ft²
CUT VOLUME=18.73C.Y. FILL VOLUME=0.03C.Y.



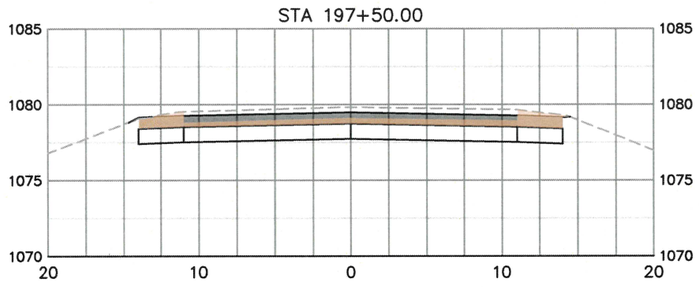
DESIGN ELEV 1079.82
EXISTING ELEV 1080.05
CUT AREA = 10.61ft² FILL AREA = 0.11ft²
CUT VOLUME=15.74C.Y. FILL VOLUME=0.31C.Y.



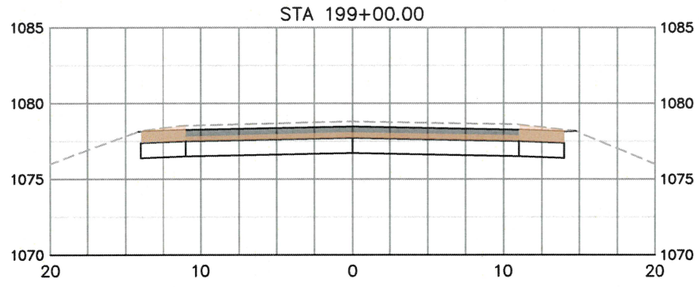
DESIGN ELEV 1078.81
EXISTING ELEV 1079.24
CUT AREA = 16.13ft² FILL AREA = 0.00ft²
CUT VOLUME=29.63C.Y. FILL VOLUME=0.00C.Y.



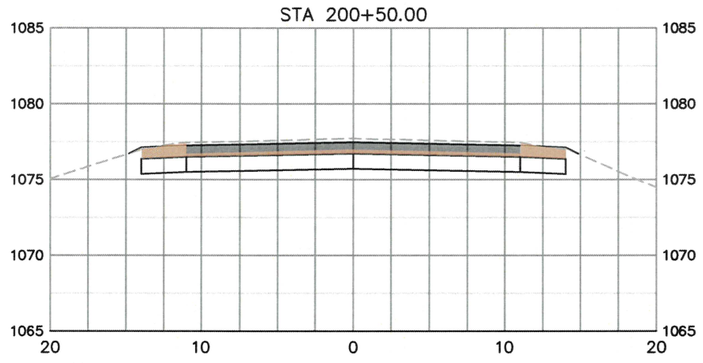
DESIGN ELEV 1077.80
EXISTING ELEV 1078.09
CUT AREA = 12.08ft² FILL AREA = 0.02ft²
CUT VOLUME=23.47C.Y. FILL VOLUME=0.02C.Y.



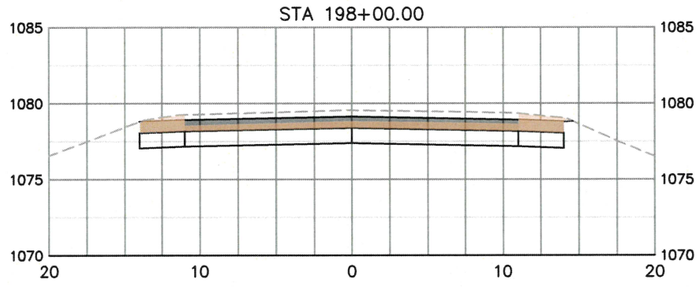
DESIGN ELEV 1079.48
EXISTING ELEV 1079.82
CUT AREA = 13.95ft² FILL AREA = 0.03ft²
CUT VOLUME=22.74C.Y. FILL VOLUME=0.13C.Y.



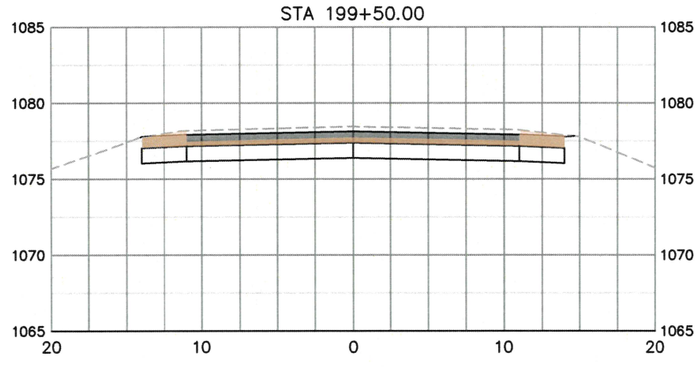
DESIGN ELEV 1078.47
EXISTING ELEV 1078.80
CUT AREA = 13.79ft² FILL AREA = 0.00ft²
CUT VOLUME=27.70C.Y. FILL VOLUME=0.00C.Y.



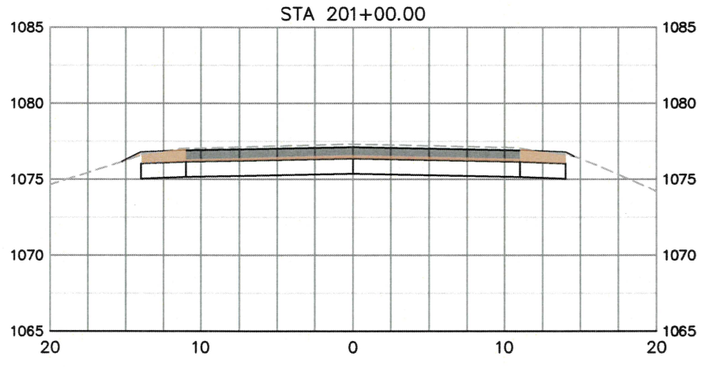
DESIGN ELEV 1077.46
EXISTING ELEV 1077.71
CUT AREA = 10.59ft² FILL AREA = 0.10ft²
CUT VOLUME=20.99C.Y. FILL VOLUME=0.11C.Y.



DESIGN ELEV 1079.15
EXISTING ELEV 1079.55
CUT AREA = 15.87ft² FILL AREA = 0.00ft²
CUT VOLUME=27.61C.Y. FILL VOLUME=0.03C.Y.

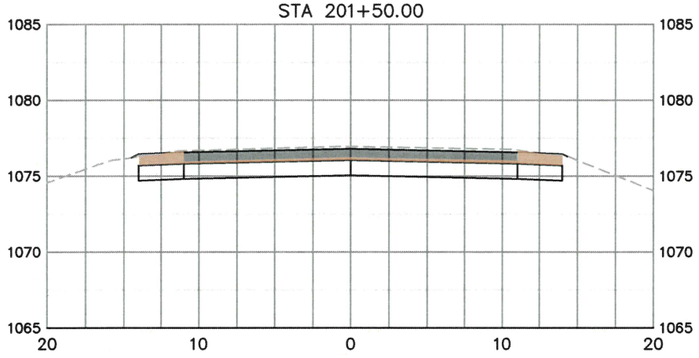


DESIGN ELEV 1078.14
EXISTING ELEV 1078.45
CUT AREA = 13.27ft² FILL AREA = 0.00ft²
CUT VOLUME=25.05C.Y. FILL VOLUME=0.00C.Y.



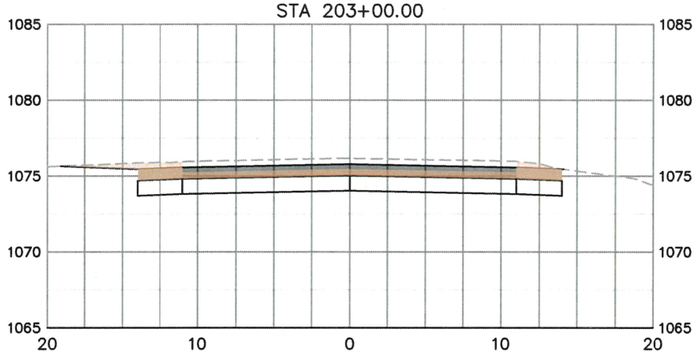
DESIGN ELEV 1077.13
EXISTING ELEV 1077.31
CUT AREA = 9.06ft² FILL AREA = 0.16ft²
CUT VOLUME=18.20C.Y. FILL VOLUME=0.25C.Y.

STA 201+50.00



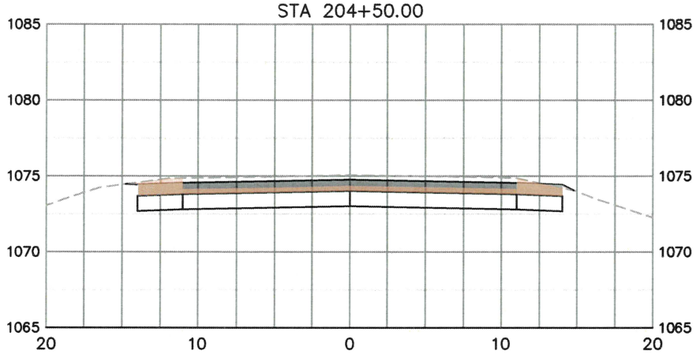
DESIGN ELEV 1076.79
EXISTING ELEV 1076.95
CUT AREA = 8.78ft² FILL AREA = 0.06ft²
CUT VOLUME=16.52C.Y. FILL VOLUME=0.21C.Y.

STA 203+00.00



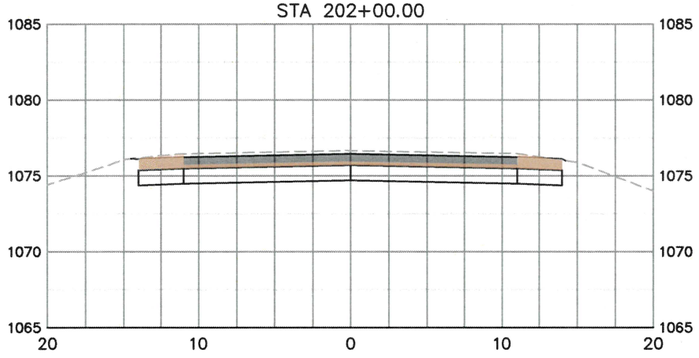
DESIGN ELEV 1075.78
EXISTING ELEV 1076.16
CUT AREA = 17.17ft² FILL AREA = 0.00ft²
CUT VOLUME=27.91C.Y. FILL VOLUME=0.00C.Y.

STA 204+50.00



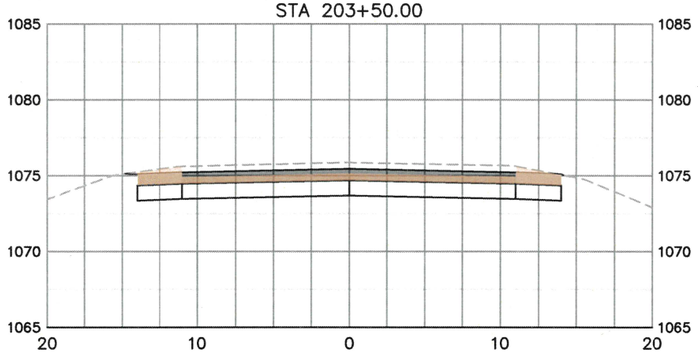
DESIGN ELEV 1074.77
EXISTING ELEV 1075.06
CUT AREA = 13.05ft² FILL AREA = 0.08ft²
CUT VOLUME=26.93C.Y. FILL VOLUME=0.09C.Y.

STA 202+00.00



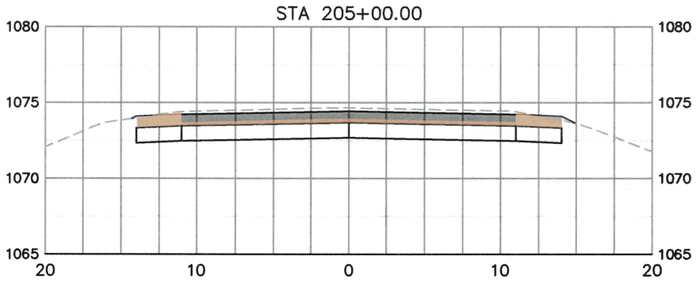
DESIGN ELEV 1076.45
EXISTING ELEV 1076.66
CUT AREA = 10.92ft² FILL AREA = 0.01ft²
CUT VOLUME=18.24C.Y. FILL VOLUME=0.06C.Y.

STA 203+50.00



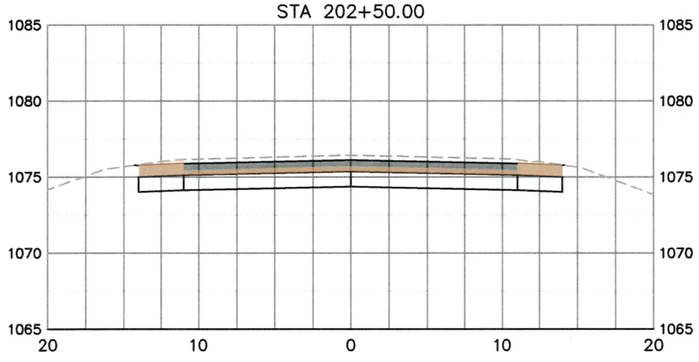
DESIGN ELEV 1075.44
EXISTING ELEV 1075.86
CUT AREA = 15.99ft² FILL AREA = 0.00ft²
CUT VOLUME=30.70C.Y. FILL VOLUME=0.00C.Y.

STA 205+00.00



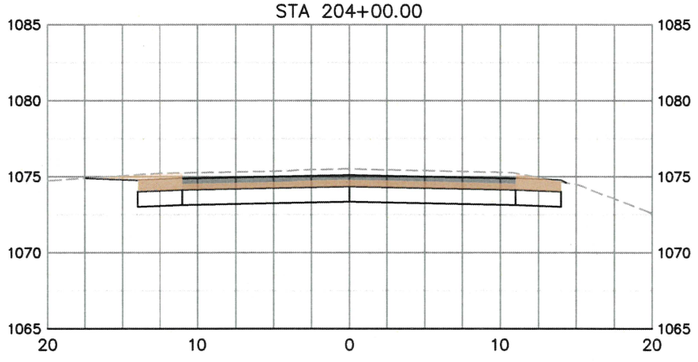
DESIGN ELEV 1074.43
EXISTING ELEV 1074.66
CUT AREA = 10.38ft² FILL AREA = 0.12ft²
CUT VOLUME=21.69C.Y. FILL VOLUME=0.19C.Y.

STA 202+50.00



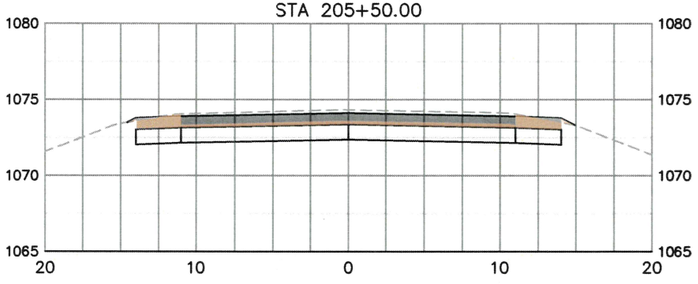
DESIGN ELEV 1076.11
EXISTING ELEV 1076.43
CUT AREA = 12.97ft² FILL AREA = 0.00ft²
CUT VOLUME=22.12C.Y. FILL VOLUME=0.01C.Y.

STA 204+00.00

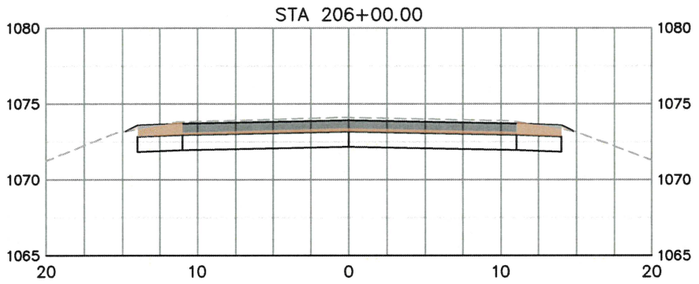


DESIGN ELEV 1075.10
EXISTING ELEV 1075.51
CUT AREA = 16.03ft² FILL AREA = 0.02ft²
CUT VOLUME=29.65C.Y. FILL VOLUME=0.02C.Y.

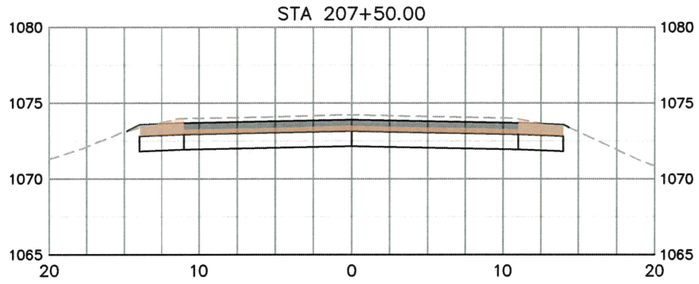
STA 205+50.00



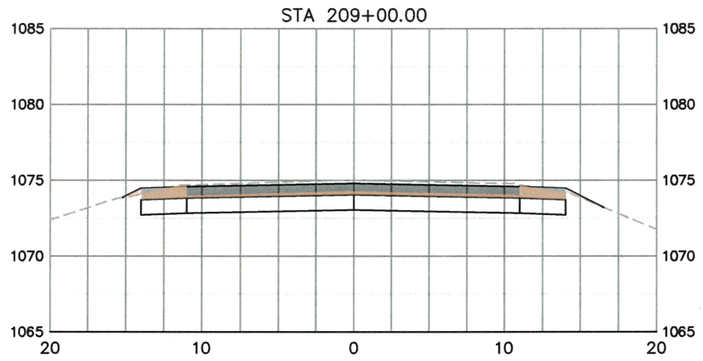
DESIGN ELEV 1074.12
EXISTING ELEV 1074.33
CUT AREA = 9.65ft² FILL AREA = 0.18ft²
CUT VOLUME=18.54C.Y. FILL VOLUME=0.28C.Y.



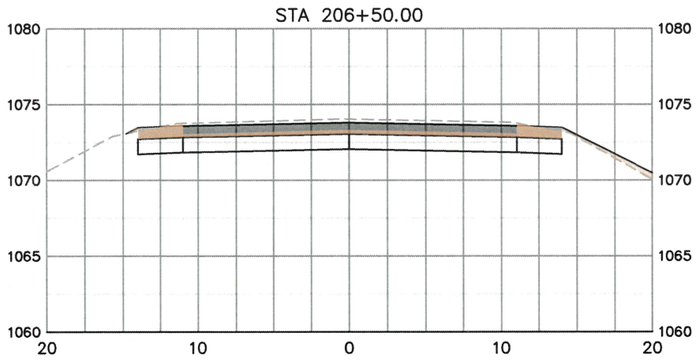
DESIGN ELEV 1073.91
EXISTING ELEV 1074.09
CUT AREA = 8.85ft² FILL AREA = 0.19ft²
CUT VOLUME=17.13C.Y. FILL VOLUME=0.34C.Y.



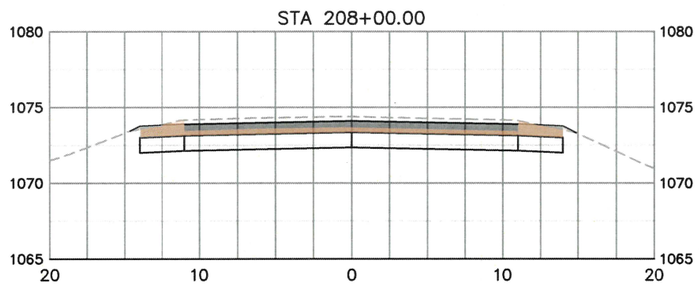
DESIGN ELEV 1073.90
EXISTING ELEV 1074.21
CUT AREA = 12.58ft² FILL AREA = 0.11ft²
CUT VOLUME=23.25C.Y. FILL VOLUME=0.24C.Y.



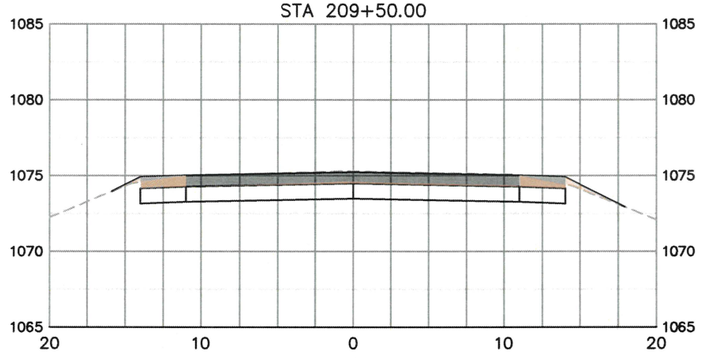
DESIGN ELEV 1074.80
EXISTING ELEV 1074.99
CUT AREA = 8.61ft² FILL AREA = 0.53ft²
CUT VOLUME=18.53C.Y. FILL VOLUME=0.64C.Y.



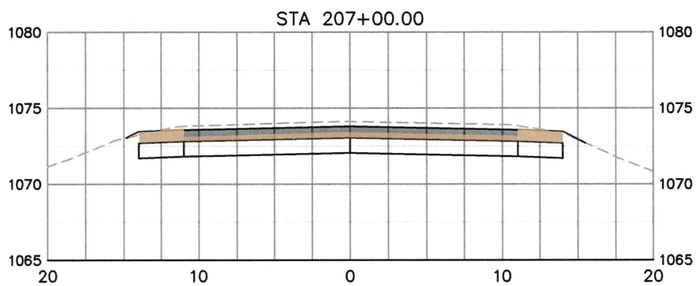
DESIGN ELEV 1073.80
EXISTING ELEV 1074.03
CUT AREA = 10.08ft² FILL AREA = 1.56ft²
CUT VOLUME=17.53C.Y. FILL VOLUME=1.62C.Y.



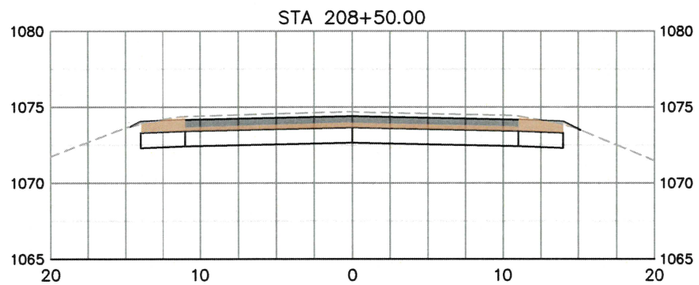
DESIGN ELEV 1074.10
EXISTING ELEV 1074.38
CUT AREA = 12.00ft² FILL AREA = 0.16ft²
CUT VOLUME=22.76C.Y. FILL VOLUME=0.25C.Y.



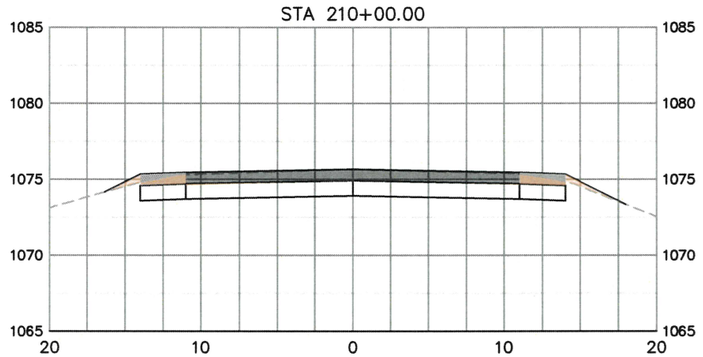
DESIGN ELEV 1075.24
EXISTING ELEV 1075.30
CUT AREA = 5.16ft² FILL AREA = 1.02ft²
CUT VOLUME=12.74C.Y. FILL VOLUME=1.43C.Y.



DESIGN ELEV 1073.80
EXISTING ELEV 1074.11
CUT AREA = 12.53ft² FILL AREA = 0.15ft²
CUT VOLUME=20.93C.Y. FILL VOLUME=1.59C.Y.

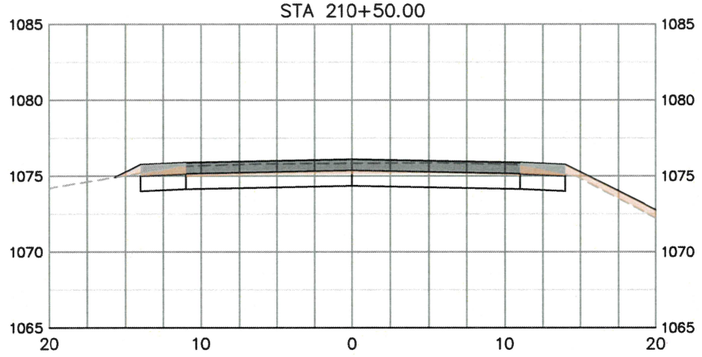


DESIGN ELEV 1074.40
EXISTING ELEV 1074.68
CUT AREA = 11.41ft² FILL AREA = 0.16ft²
CUT VOLUME=21.67C.Y. FILL VOLUME=0.30C.Y.



DESIGN ELEV 1075.67
EXISTING ELEV 1075.64
CUT AREA = 2.80ft² FILL AREA = 1.99ft²
CUT VOLUME=7.36C.Y. FILL VOLUME=2.78C.Y.

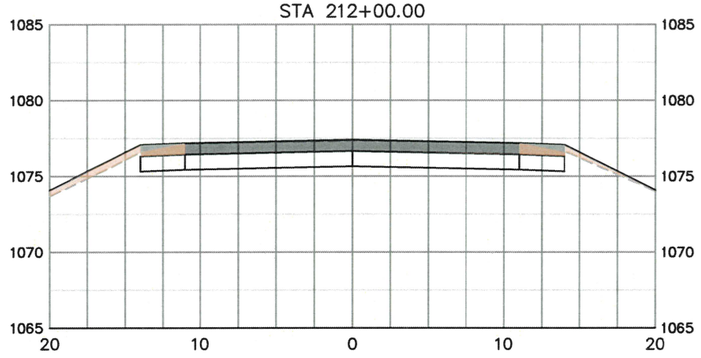
STA 210+50.00



DESIGN ELEV 1076.10
EXISTING ELEV 1075.84

CUT AREA = 2.16ft² FILL AREA = 6.64ft²
CUT VOLUME=4.58C.Y. FILL VOLUME=7.99C.Y.

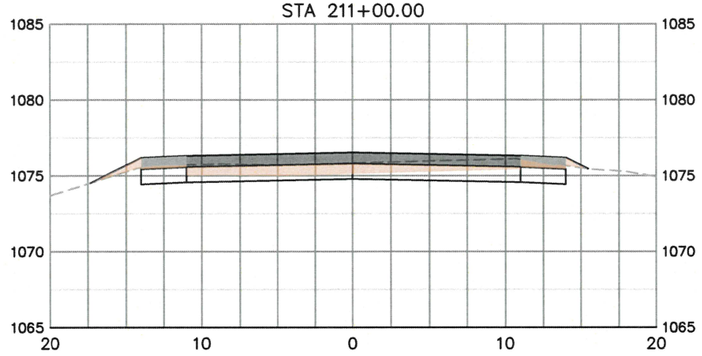
STA 212+00.00



DESIGN ELEV 1077.41
EXISTING ELEV 1077.36

CUT AREA = 3.48ft² FILL AREA = 4.24ft²
CUT VOLUME=5.30C.Y. FILL VOLUME=11.38C.Y.

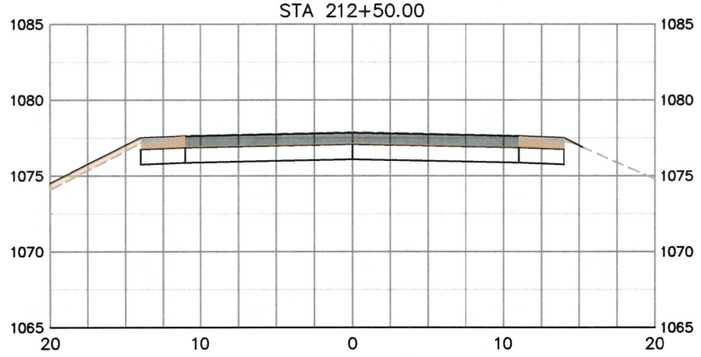
STA 211+00.00



DESIGN ELEV 1076.54
EXISTING ELEV 1075.83

CUT AREA = 1.53ft² FILL AREA = 12.85ft²
CUT VOLUME=3.41C.Y. FILL VOLUME=18.04C.Y.

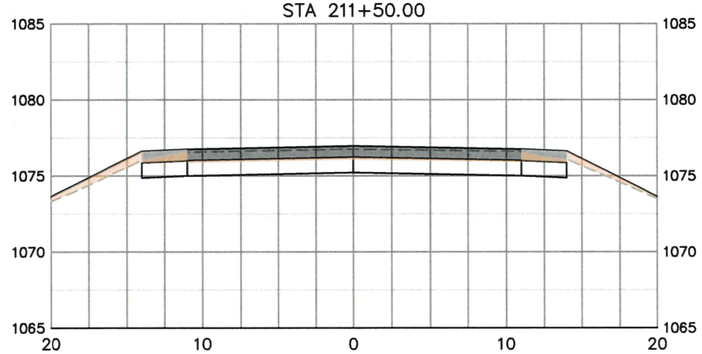
STA 212+50.00



DESIGN ELEV 1077.84
EXISTING ELEV 1077.90

CUT AREA = 5.89ft² FILL AREA = 2.44ft²
CUT VOLUME=8.68C.Y. FILL VOLUME=6.19C.Y.

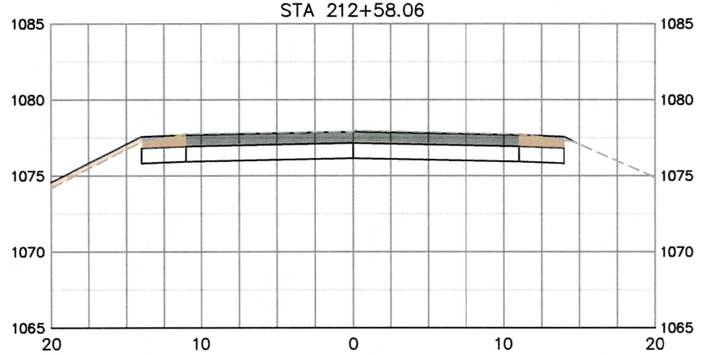
STA 211+50.00



DESIGN ELEV 1076.97
EXISTING ELEV 1076.75

CUT AREA = 2.24ft² FILL AREA = 8.04ft²
CUT VOLUME=3.49C.Y. FILL VOLUME=19.34C.Y.

STA 212+58.06



DESIGN ELEV 1077.91
EXISTING ELEV 1077.91

CUT AREA = 5.82ft² FILL AREA = 2.10ft²
CUT VOLUME=1.75C.Y. FILL VOLUME=0.68C.Y.