

WORTH CO. RCB CULVERT REPLACEMENT - SINGLE BOX
STPN-009-6(77)--2J-98

LETTING DATE
07-16-2019

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.1	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	IA 9
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan & Staging Notes
W Sheets	Mainline Cross Sections
W.1	Cross Sections Legend & Symbol Information Sheet
W.2-4	Mainline Cross Sections
* Color Plan Sheets	



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

**PRIMARY ROAD SYSTEM
WORTH COUNTY**

RCB CULVERT REPLACEMENT - SINGLE BOX

Stream 0.23 mi W of Co Rd S18

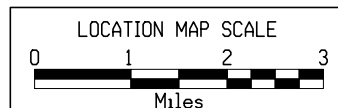
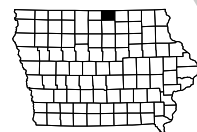
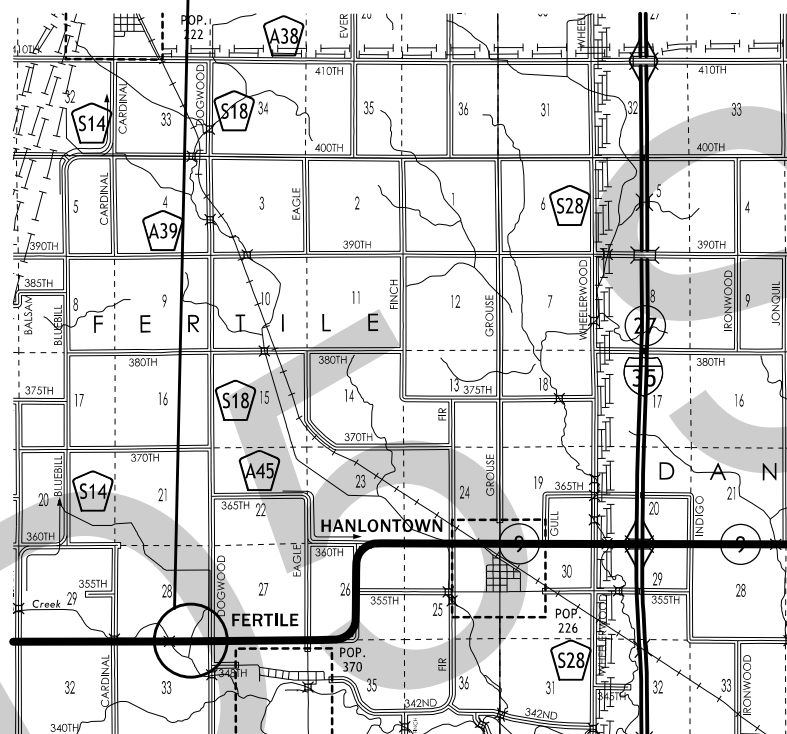
SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



PROJECT LOCATION
Ref. Loc. 166.72
Sta. 1797+13.60



DESIGN DATA RURAL			
2020 AADT	2800	V.P.D.	
2040 AADT	3100	V.P.D.	
20-- DHV	--	V.P.H.	
TRUCKS	17	%	
Total			
Design ESALs	--		

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Kelly C. Bell	Primary Signature Block

PRELIMINARY PLANS

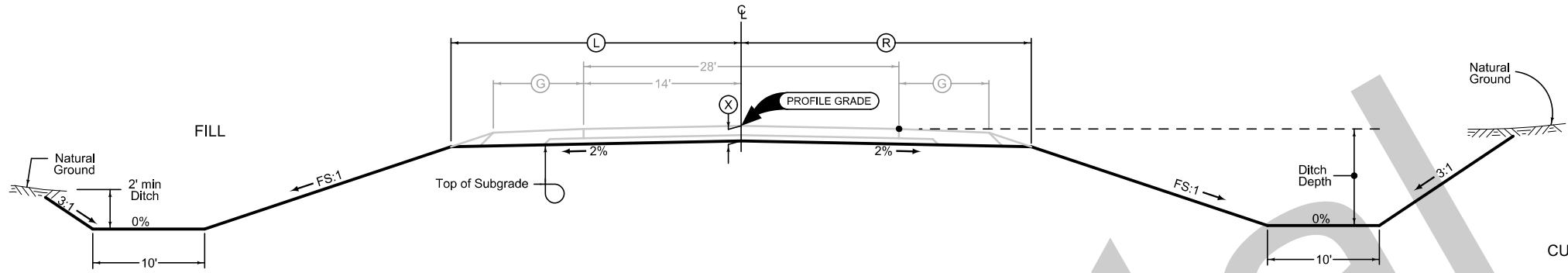
Subject to change by final design.

D5 PLAN - Date: 08-10-2018

REVISIONS	TOTAL
	--
PROJECT IDENTIFICATION NUMBER	17-98-009-020
PROJECT NUMBER	STPN-009-6(77)--2J-98
R.O.W. PROJECT NUMBER	STPN-009-6(78)--2J-98

LOCATION		DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION	(L) Feet	(R) Feet	(X) Inches	FS
IA HWY 9	1796+60.00 - 1797+55.00	25.1	25.1	21.5	4

G_2_Grade
Modified



Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See plan & profile sheets and cross sections for additional details of ditches and backslopes.

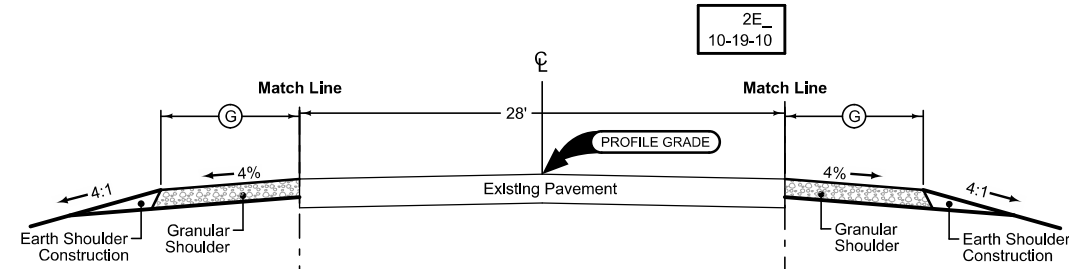
2 LANE GRADING

IOWA HIGHWAY 9

D55 Submitted

Granular Shoulder

2_G_SR_ 10-19-10		
STATION TO STATION		Ⓞ Feet
1796+50.00	1796+60.00	6
1797+55.00	1798+00.00	6

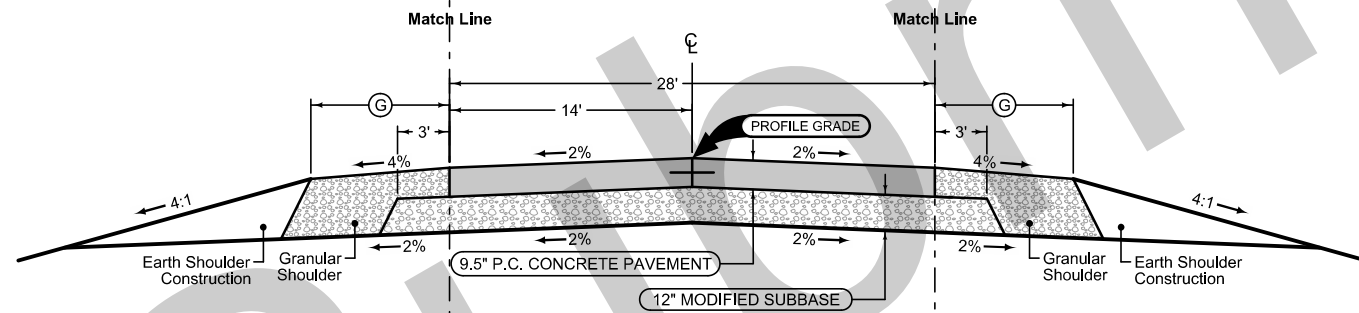


Granular Shoulder

2_G_SR_ 10-19-10		
STATION TO STATION		Ⓞ Feet
1796+25.00	1796+60.00	6
1797+58.00	1797+75.10	6

Granular Shoulder

2_G_SR_ 10-19-10		
STATION TO STATION		Ⓞ Feet
1796+60.00	1797+55.00	6



Granular Shoulder

2_G_SR_ 10-19-10		
STATION TO STATION		Ⓞ Feet
1796+60.00	1797+55.00	6

Mainline Jointing:
 Transverse joints: CD at 20' spacing
 Longitudinal joint: L-2

2P_ 10-19-10		
STATION TO STATION		
1796+60.00	1797+55.00	

See Tab 100-24 or 100-25 for pavement quantities.
 See Tab 112-9 for shoulder quantities.

IOWA HIGHWAY 9

SURVEY SYMBOLS

- Default_Point Default Point Feature
- PT Curve Point
- ▲ SCR Section Corner
- POT Tangent Point
- CP Control Point
- ▲ BM Bench Mark
- PCP Photo Control Point
- WC Wild Card (Misc. Field Shot)
- PLG Location of General Photo
- CON Concrete or A/C Slab
- BL Topo Breakline
- D Centerline Draw or Stream (Down)
- C Centerline BL of Road (ML or SR)
- EP Edge of Paved Roads (ML or SR)
- SNP Unpaved Shoulder
- GR Ground Shot
- PIP Pipe Culvert
- PRO Profile Shot
- FW Wire Fence
- ENT Centerline BL of Entrance
- EW Edge of Water
- DU Centerline Draw or Stream (Up)
- Winnebago Telephone (WCTA) - Quality D
- Prairie Energy Cooperative
- TW Top of Water
- SOP Size of Pipe or Culvert
- ▣ FENO FENO Monument

UTILITY LEGEND

- Winnebago Telephone (WCTA) - Quality D
- Prairie Energy Cooperative

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities
SHADING		Design Color No.	
Yellow	(4)		Highlight for Critical Notes or Features
Red	(3)		Delineates Restricted Areas
Lavender	(9)		Temporary Pavement Shading
Gray, Light	(48)		Proposed Pavement Shading
Gray, Med	(80)		Proposed Granular Shading
Gray, Dark	(112)		Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)		Grading Shading
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(2)		Existing Ground Line Profile
Blue	(1)		Proposed Profile and Annotation
Magenta	(5)		Existing Utilities
Blue, Light	(230)		Proposed Ditch Grades, Left
Black	(0)		Proposed Ditch Grades, Median
Rust	(14)		Proposed Ditch Grades, Right

- Reference Point
- Station
- ▲ Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

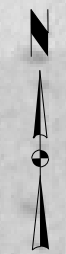
RIGHT-OF-WAY LEGEND

- ▲ Proposed Right-of-Way
- △ Existing Right of Way
- ▲ Existing and Proposed Right-of-Way
- ▲ Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- C/A Access Control
- ← Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)

Fertile Twp.
T-98N R-22W
Sec. 28



Remove
Sta. 1796+96.13
Skew 2° 10' Rt AH
42"x124' RCP
DA=3532 Ac-R (per plan)

Sta. 1798+00.00 (ML009)
End WB Shoulder Construction

Sta. 1796+50.00 (ML009)
Begin WB Shoulder Construction

Sta. 1796+60.00 (ML009)
Begin Roadway Construction

Sta. 1797+55.00 (ML009)
End Roadway Construction

UAC
24" X 24"
CMP

9

Sta. 1796+25.00 (ML009)
Begin EB Shoulder Construction

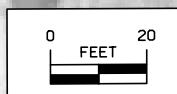
Sta. 1797+75.10 (ML009)
End EB Shoulder Construction

UAC
36" X 24"
CMP

Remove
Sta. 1797+12.50
Skew 0° 16' Rt AH
6'x6'4"x80' RCB
DA=3532 Ac-R (per plan)




Build
Sta. 1797+13.31
Skew 8° Lt AH
8'x9'x136' Single RCB
DA=4.3 SQ. Miles
Design No. 0119

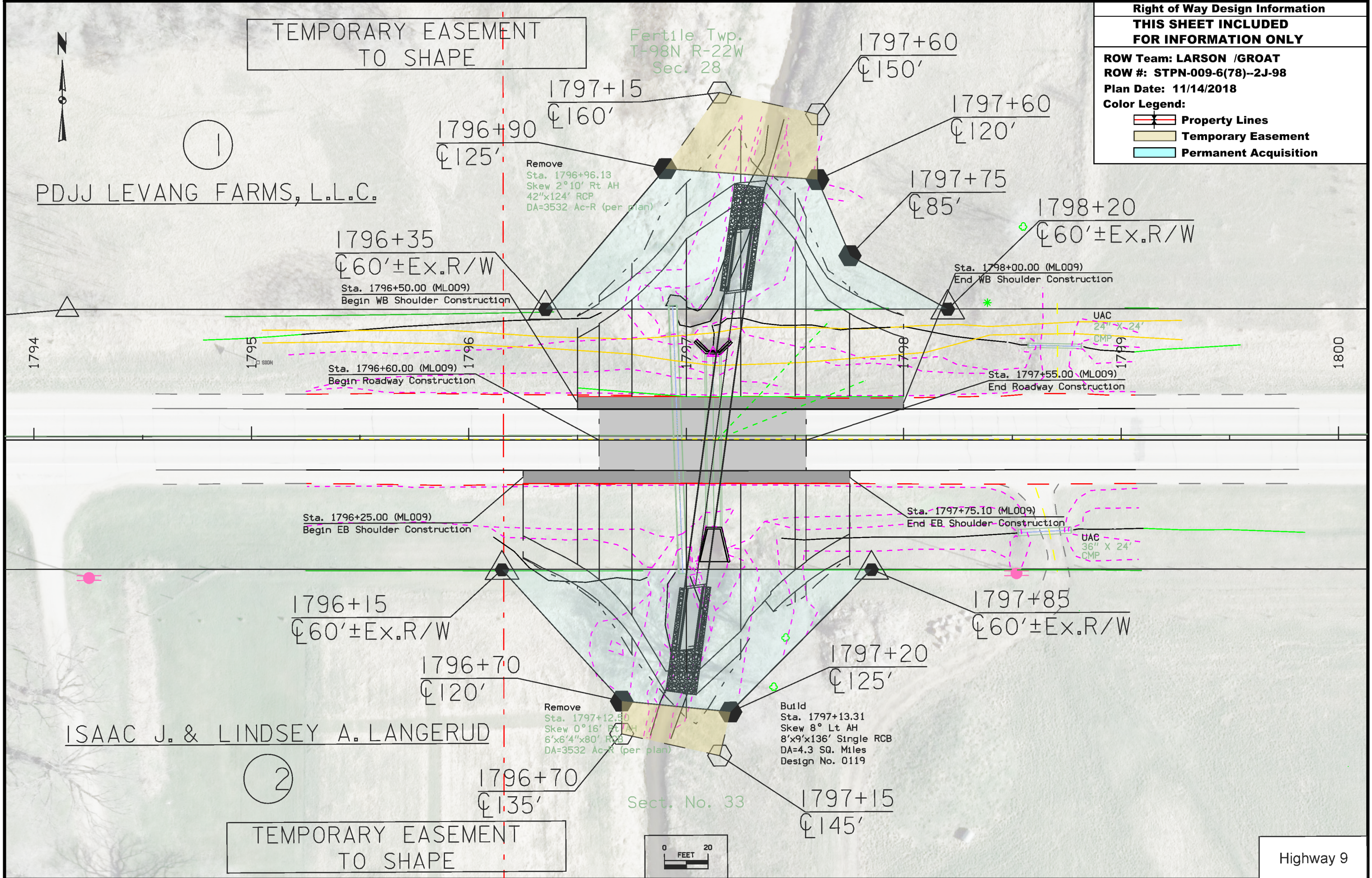
Sect. No. 33



Highway 9

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: LARSON /GROAT	
ROW #: STPN-009-6(78)--2J-98	
Plan Date: 11/14/2018	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



TEMPORARY EASEMENT TO SHAPE

PDJJ LEVANG FARMS, L.L.C.

1

1796+35
 60'± Ex. R/W
 Sta. 1796+50.00 (ML009)
 Begin WB Shoulder Construction

1796+90 125'
 1797+15 160'
 Remove
 Sta. 1796+96.13
 Skew 2° 10' Rt AH
 42"x124' RCP
 DA=3532 Ac-R (per plan)

1797+60 150'
 1797+60 120'
 1797+75 85'

Sta. 1798+00.00 (ML009)
 End WB Shoulder Construction

1798+20 60'± Ex. R/W

1796+60.00 (ML009)
 Begin Roadway Construction

Sta. 1797+55.00 (ML009)
 End Roadway Construction

Sta. 1796+25.00 (ML009)
 Begin EB Shoulder Construction

Sta. 1797+75.10 (ML009)
 End EB Shoulder Construction

1796+15 60'± Ex. R/W

1797+85 60'± Ex. R/W

1796+70 120'

1797+20 125'

ISAAC J. & LINDSEY A. LANGERUD

Remove
 Sta. 1797+12.80
 Skew 0° 16' Rt AH
 6'x6'4"x80' RCB
 DA=3532 Ac-R (per plan)

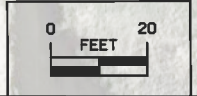
Build
 Sta. 1797+13.31
 Skew 8° Lt AH
 8'x9'x136' Single RCB
 DA=4.3 SQ. Miles
 Design No. 0119

2

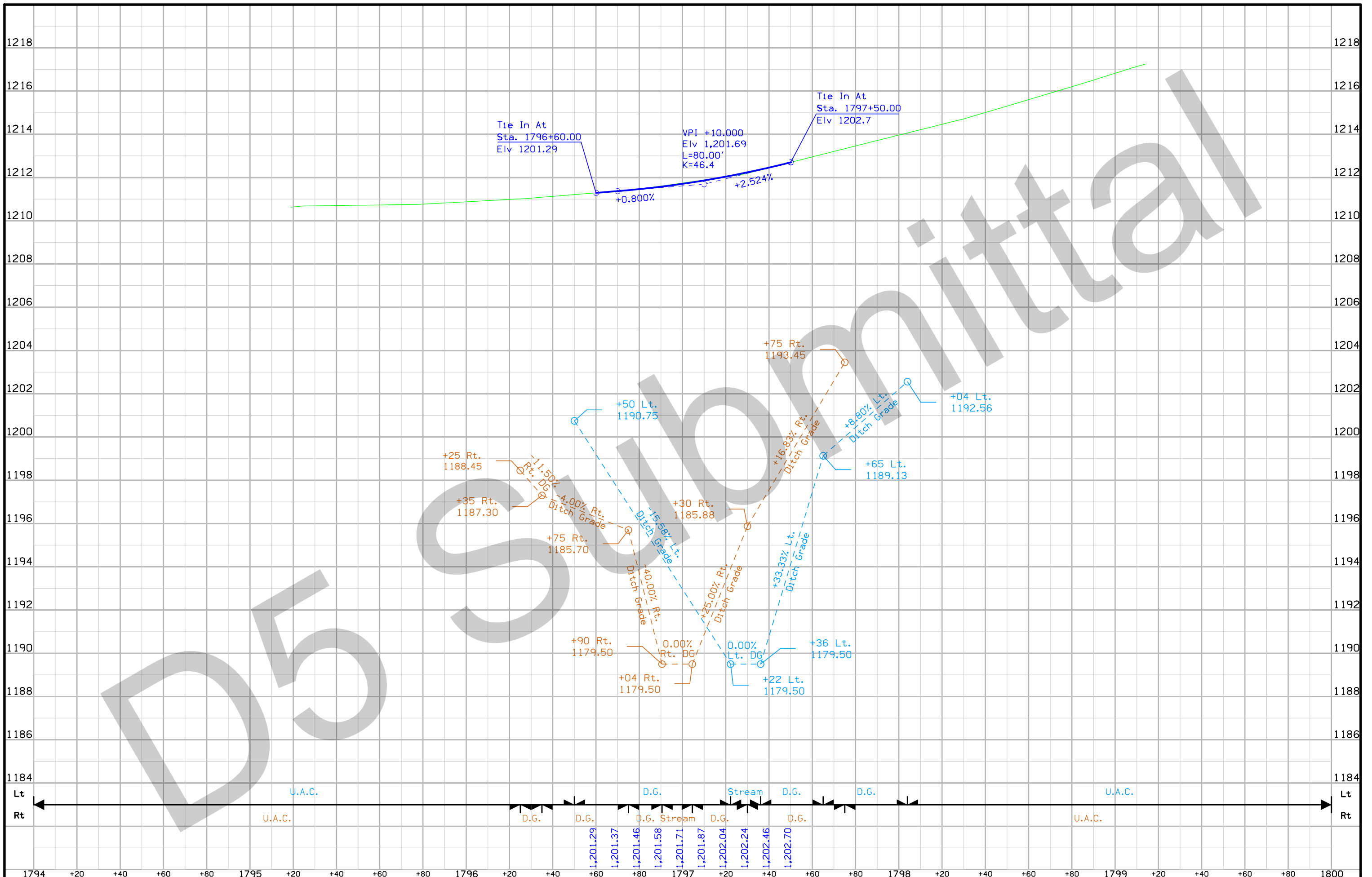
TEMPORARY EASEMENT TO SHAPE

Sect. No. 33

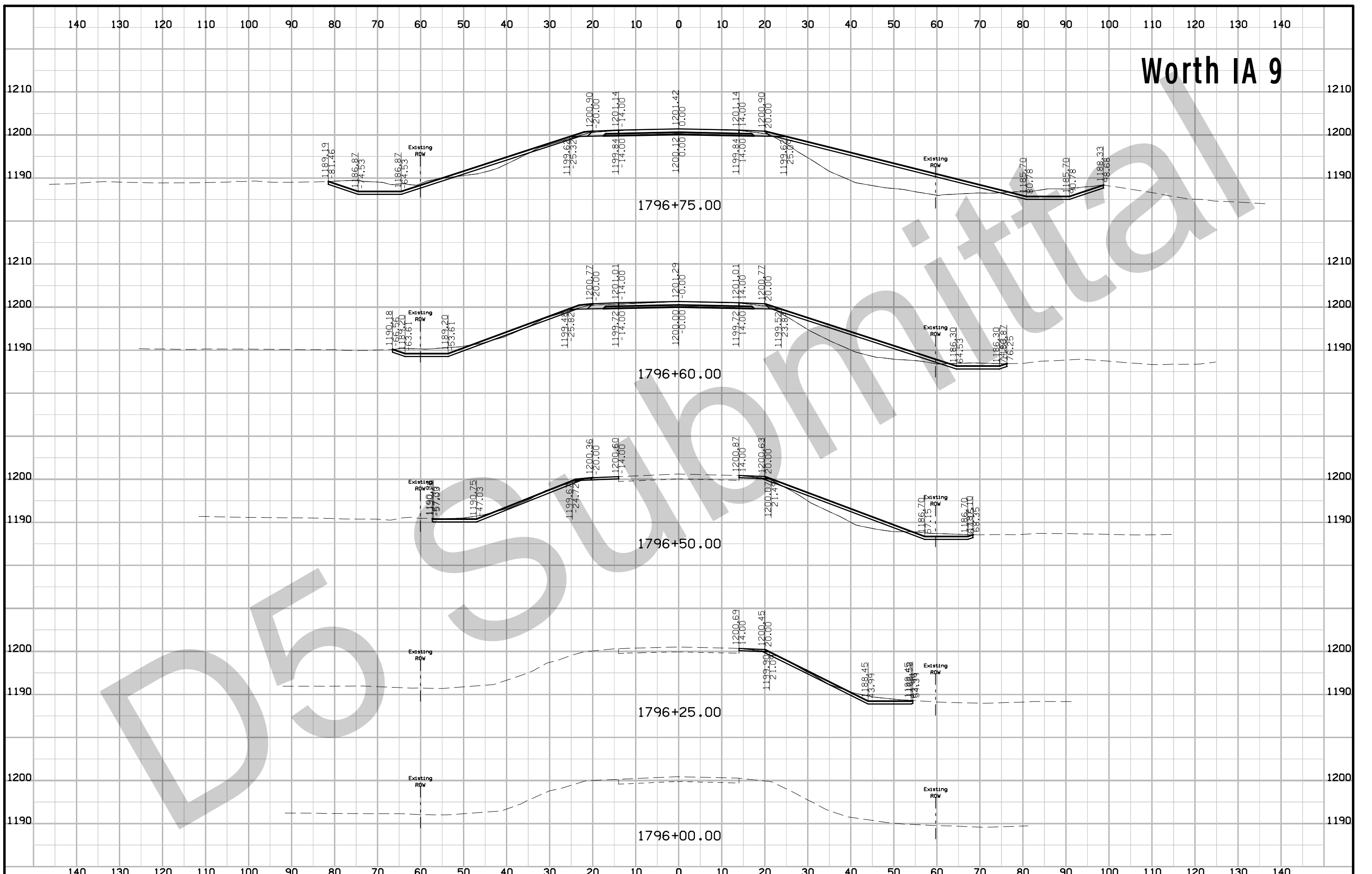
1797+15 145'



Highway 9



Worth IA 9



Worth IA 9

