LUCAS Co. RCB CULVERT REPLACEMENT - SINGLE BOX STPN-014-2(40)--2J-59

LETTING DATE 1-20-2021

IOWA DOT

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

LUCAS COUNTY

RCB CULVERT REPLACEMENT - SINGLE BOX

1.2 mi N of N Jct Co Rd H50 (MP 14.6)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

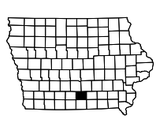
IOWA ONE CALL 1-800-292-8989 www.iowaonecall.com 811 Know what's below. Call before you dig.

REVISIONS

TOTAL	15
PROJECT IDENTIFICATION NUMBER	18-59-014-010
PROJECT NUMBER	STPN-014-2(40)--2J-59
R.O.W. PROJECT NUMBER	STPN-014-2(41)--2J-59

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	**Typical Cross Sections and Details**
B.1 - 3	Typical Cross Sections and Details
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 3	IA 14
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
* J.2	Detour Map
V Sheets	**Bridge and Culvert Situation Plans**
* V.1	Bridge and Culvert Situation Plans
W Sheets	**Mainline Cross Sections**
W.1 - 4	Mainline Cross Sections
	* Color Plan Sheets



DESIGN DATA RURAL

2014	AADT	2450	V.P.D.
2021	AADT	--	V.P.D.
2021	DHV	--	V.P.H.
TRUCKS		6.1	%
Total Design ESALs		--	

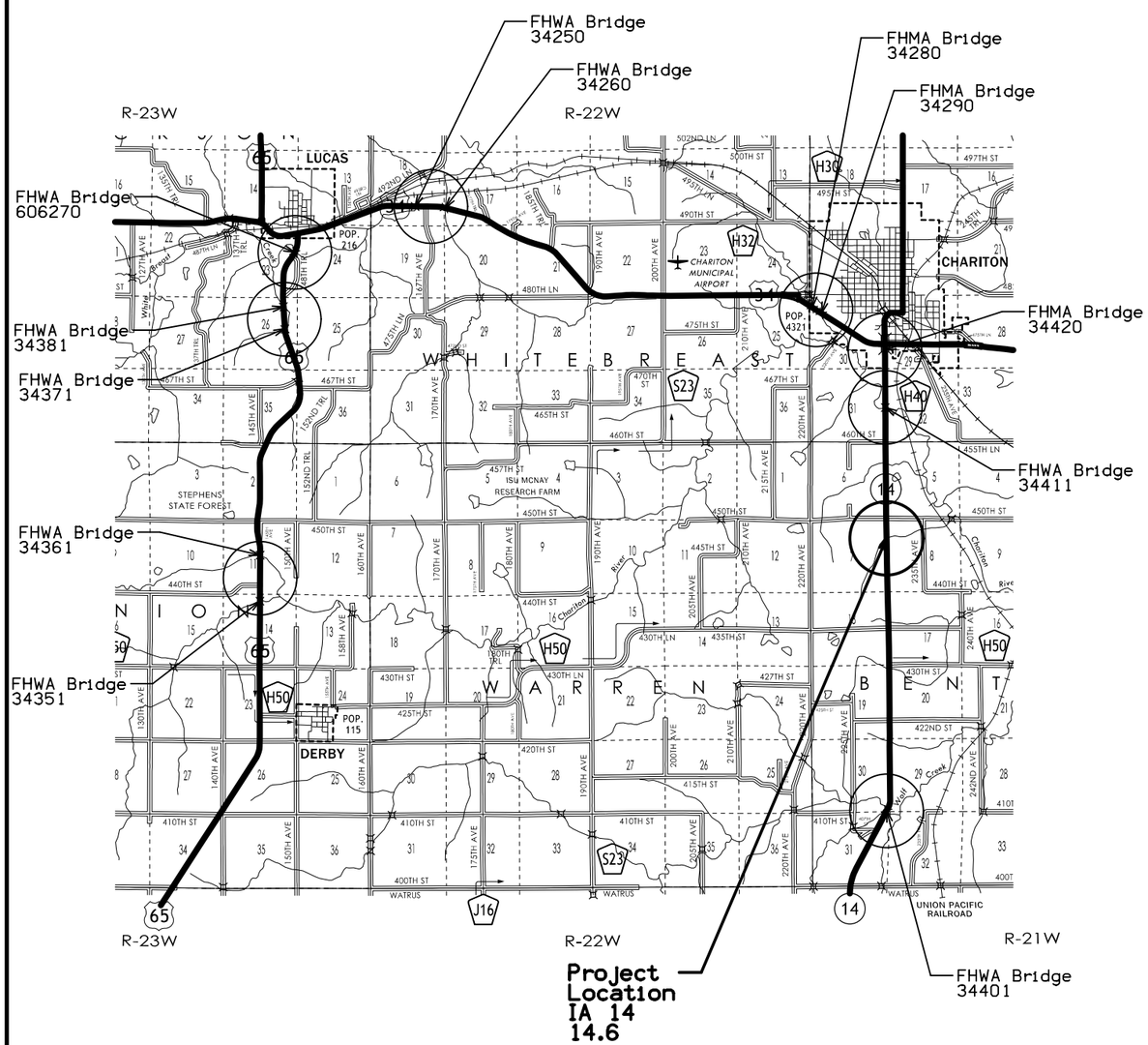
D4 PLAN – Date: 9–23–2020

PRELIMINARY PLANS

Subject to change by final design.

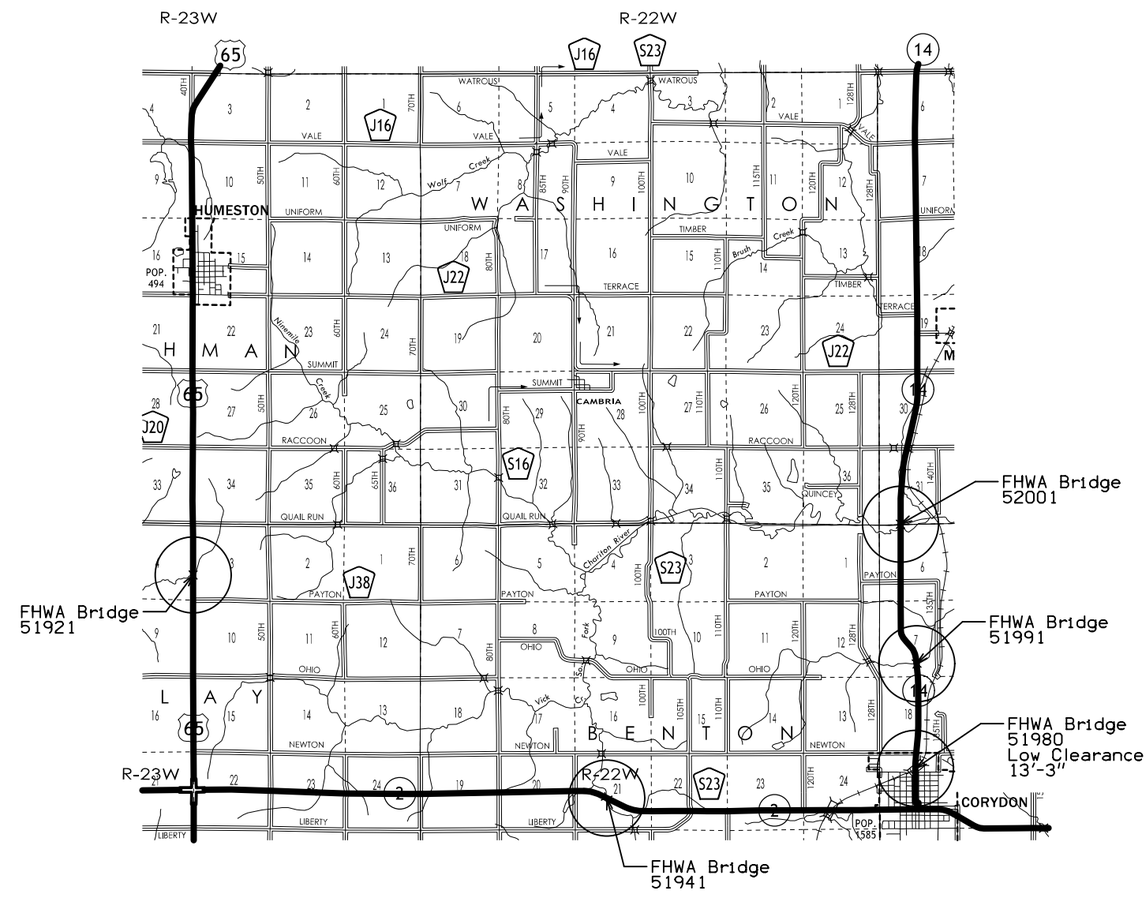
D5 PLAN – Date: 2–13–2019

LUCAS COUNTY



LOCATION MAP SCALE
0 1 2 3
Miles

WAYNE COUNTY



LOCATION MAP SCALE
0 1 2 3
Miles

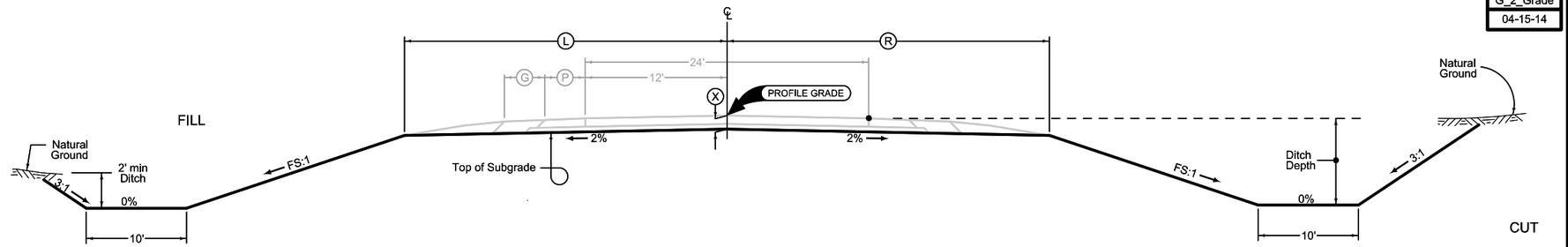
Location Map

FILE NO. 31660	ENGLISH	DESIGN TEAM JIA \ DEWOLF \ WARHANK	LUCAS COUNTY	PROJECT NUMBER STPN-014-2(40)--2J-59	SHEET NUMBER A.2

8:45:52 AM 2/13/2019 mwarhan pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5901401018\Design\CADD\SHT\59014040_A01.dgn

LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	FS
IA 14	744+85	745+55	31.1	31.1	21.5	3:1

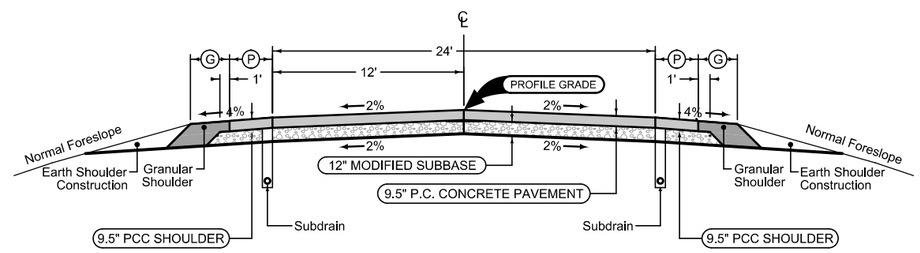
G_2_Grade
04-15-14



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



Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

2_C_Modified 10-15-13			
STATION TO STATION		(P) Feet	(G) Feet
744+85	745+55	4	4

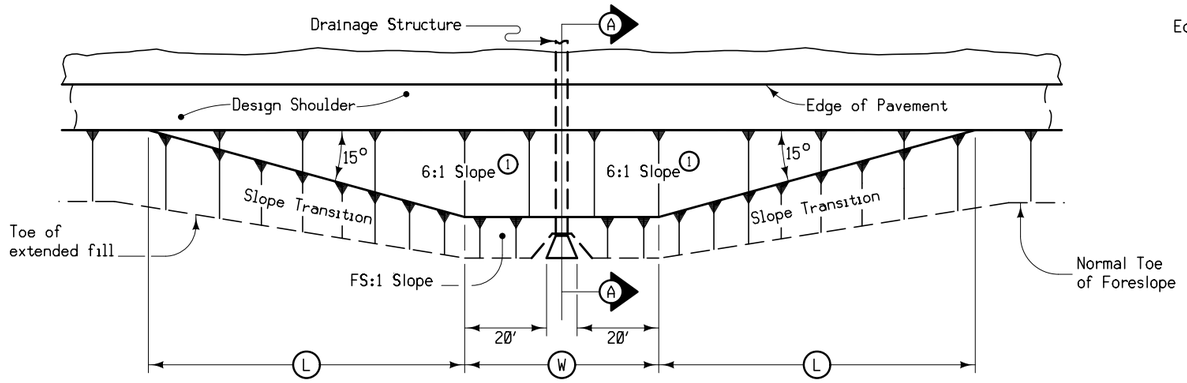
Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

2P_ 10-19-10	
STATION TO STATION	
744+85	745+55

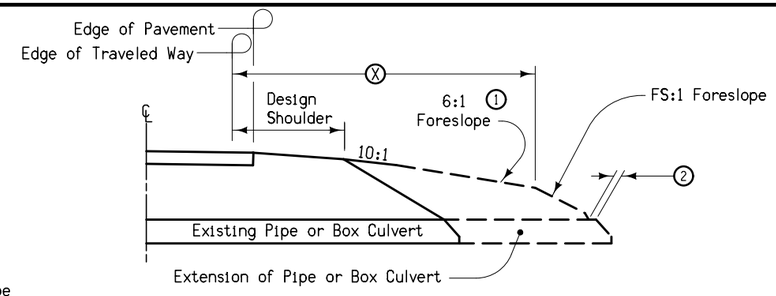
Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

2_C_Modified 10-15-13			
STATION TO STATION		(P) Feet	(G) Feet
744+85	745+55	4	4



PLAN VIEW



SECTION A-A

STRUCTURE LOCATION		W	L	X	FS
STATION	SIDE	Feet	Feet	Feet	
745+22	LT	70	75	30	3
745+22	RT	70	75	30	3

DESIGNER INFO

4311_A
04-18-17

Notes:

At locations where an extended or newly constructed drainage structure extends beyond the normal foreslope cover, flatten the foreslope as indicated so as to cover the structure. Minimum earth cover is 6".

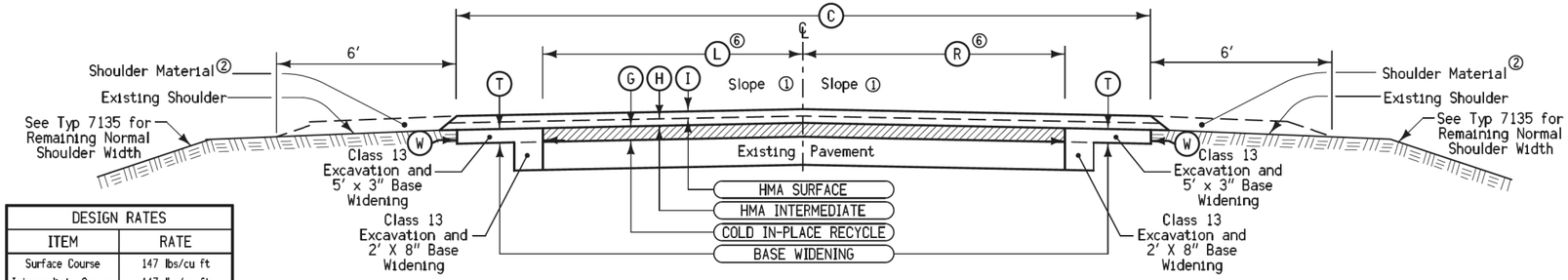
1 Slope may be flatter than 6:1.

2 6" Minimum for pipe installations or to top of headwall on R.C.B.

W = Pipe or R.C.B. opening width plus 20 feet each side.

BARNROOF FORESLOPE AT DRAINAGE STRUCTURE

2602-D
MODIFIED



DESIGN RATES	
ITEM	RATE
Surface Course	147 lbs/cu ft
Intermediate Course	147 lbs/cu ft
HMA Base	145 lbs/cu ft
Asph Bndr - Sur/Base	6% Content
Asph Bndr - Inter	5.5% Content
Tack Coat *	0.05 gal/sq yd
Cold In Place	sq yd/in
Foamed Asphalt	0.0011 tons/sq yd/in

* Not a bid item

TABLE OF DESIGN QUANTITIES FOR CIP RECYCLE AND HMA RESURFACING — Per Station

LOCATION		TOTAL	C	L	R	G	H	I	T	W	CL. 13 EXCAVATION	TACK COAT	ASPHALT BINDER	HOT MIX ASPHALT (Tons)			ASPHALT PAVEMENT	FOAMED ASPHALT
ROAD IDENTIFICATION	STATION TO STATION	Sta's	Feet	Feet	Feet	Inches	Inches	Inches	Inches	Feet	Cu. Yds. ⑤	Gallons ③	Tons	SURFACE	INTERMEDIATE	BASE ⑥	Sq. Yds./In.	Tons
IA 14	575+50 to 831+45	255.95	32	11	11	3	2	1.5	3	5	15.44	52.94	5.97	29.52	39.72	30.23	733.33	0.81
IA 14	846+10 to 867+60	21.5	32	11	11	3	2	1.5	3	5	15.44	52.94	5.97	29.52	39.72	30.23	733.33	0.81

Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the engineer through areas of special shaping.

② Shoulder material as specified elsewhere in these plans; refer to Typ 7135 Mod. for "Type 'B' Granular Surfaced Shoulders".

③ Quantity estimated for 2 courses plus vertical faces of paved shoulder units. (Not a bid item)

④ Provide a vertical edge. Incidental to Class 13 Excavation.

⑤ HMA Base is to be completed after Cold In-Place Recycling has been done. See Tab 108-26A 'Staging Notes' on sht J.1 for more information.

⑥ Edge of Traveled Way and white painted edge line to be located at 12 ft Rt and Lt of Centerline. See current Standard Specifications and Road Standards for placement of Shoulder Rumble strips for information. See Tab 112-10 for locations.

⑦ Class 13 Excavation Widening and HMA Base per station quantities are shown as totals for both sides.

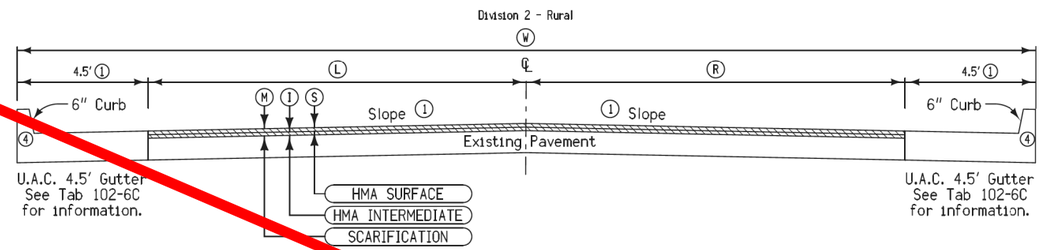
⑧ Calculation for HMA Base includes 2′ x 8″ Base Widening Unit and 5′ x 3″ Paved Soulders. Tonnage calculated for both sides.

⑨ PG 64-22 Ashpalt Cement Binder.

⑩ See Note 2, Tab 112-9.

TYPICAL CROSS SECTION HMA RESURFACING WITH COLD IN-PLACE RECYCLING AND HMA BASE Division 2 - Rural

2209-A
MODIFIED



DESIGN RATES	
ITEM	RATE
Surface Course	147 lbs./cu. ft.
Intermediate Course	147 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yd.
Binder	6%

TABLE OF DESIGN QUANTITIES — Per Station

LOCATION		TOTAL	W	L	R	M	I	S	TACK COAT	ASPHALT CEMENT	HMA RESURFACING		
ROAD IDENTIFICATION	STATION TO STATION	Sta's	Feet	Feet	Feet	Inches	Inches	Inches	Gallons ②	Tons	SURFACE Tons	INTERMEDIATE Tons	SCARIFICATION SY
IA 14	867+60 to 877+80	10.20	35	13	13	3	1.5	1.5	37.35	2.87	[illegible].89	23.89	288.89

Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the engineer through areas of special shaping.

② Estimated for 2 applications. Not a Bid Item.

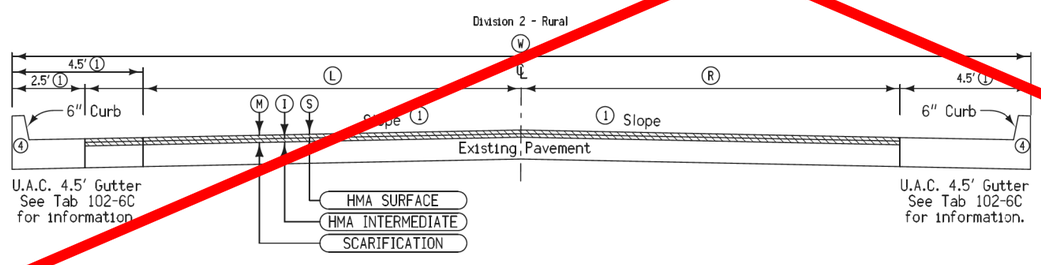
③ Scarification will be approximately a nominal 2″ at centerline. The intent of the Scarification operation is to remove 2″ of the existing 3″ HMA pavement lifts while preserving the underlying 7.5″ PCC pavement section.

④ Scarification will be approximately a nominal 3″ along the gutter line. The intent of the 4′ width Scarification operation is to remove the existing HMA and approximately 1″ PCC gutter line pavement section. This operation shall create a verticle face adjacent to the curb along the gutterline for a HMA surface notch. Special shaping at intakes included.

⑤ PG 64-22 Ashpalt Cement Binder.

TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING Division 2 - Rural

2209-B
MODIFIED



DESIGN RATES	
ITEM	RATE
Surface Course	147 lbs./cu. ft.
Intermediate Course	147 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yd.
Binder	6%

TABLE OF DESIGN QUANTITIES — Per Station

LOCATION		TOTAL	W	L	R	M	I	S	TACK COAT	ASPHALT CEMENT	HMA RESURFACING		
ROAD IDENTIFICATION	STATION TO STATION	Sta's	Feet	Feet	Feet	Inches	Inches	Inches	Gallons ②	Tons	SURFACE Tons	INTERMEDIATE Tons	SCARIFICATION SY
IA 14	877+80 to 878+00	0.20	35	13-15	13	3	1.5	1.5	12	0.67	5.56	5.56	60.00

Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the engineer through areas of special shaping.

② Estimated for 2 applications. Not a Bid Item.

③ Scarification will be approximately a nominal 2″ at centerline. The intent of the Scarification operation is to remove 2″ of the existing 3″ HMA pavement lifts while preserving the underlying 7.5″ PCC pavement section.

④ Scarification will be approximately a nominal 3″ along the gutter line. The intent of the 4′ width Scarification operation is to remove the existing HMA and approximately 1″ PCC gutter line pavement section. This operation shall create a verticle face adjacent to the curb along the gutterline for a HMA surface notch. Special shaping at intakes included.

⑤ PG 70-28 Ashpalt Cement Binder.

TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING Division 3 - Urban

FILE NO.	ENGLISH	DESIGN TEAM VanDyke\Phillips\Hamilton	WAYNE/LUCAS COUNTY	PROJECT NUMBER STPN-014-1(11)--2J-93	SHEET NUMBER B.2

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AS BUILT PLANS

FILE NO. 31660	ENGLISH	DESIGN TEAM JIA \ DEWOLF \ WARHANK	LUCAS COUNTY	PROJECT NUMBER STPN-014-2(40)--2J-59	SHEET NUMBER B.3

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SURVEY SYMBOLS

- BL Topo Breakline
- BM Bench Mark
- BNK Stream Bank
- C Centerline BL of Road (ML or SR)
- CON Concrete or A/C Slab
- CP Control Point
- D Centerline Draw or Stream (Down)
- DU Centerline Draw or Stream (Up)
- ENT Centerline BL of Entrance
- EP Edge of Paved Roads (ML or SR)
- FENO FENO Monument
- FO — FO1D Fiber Optic Co. 1 - Quality D
- FO2 — FO2D Fiber Optic Co. 2 - Quality D
- FW Wire Fence
- GR Ground Shot
- OUT Tile Outlet
- PIP Pipe Culvert
- PLG Location of General Photo
- PPA Power Pole Co. 1
- PRO Profile Shot
- REF Reference Tie Point
- RET Retaining Walls
- RIP Rip-Rap
- ROW Right of Way Mark
- SIGN SI Sign
- SNP Unpaved Shoulder
- SOP Size of Pipe or Culvert
- TDC Tree Deciduous
- TEV Evergeen Tree
- TILE — TIL Tile Line
- TLNL Tree Line Left
- TP TPD Telephone Pedestal
- WC Wild Card (Misc. Field Shot)
- WEL Well
- W — WL1D Water Line Co. 1 - Quality D
- CUL Culvert
- ENU Edge Unpaved Entrance & Parking

SURVEYED UTILITY OWNER SYMBOLS

Sub-Surface Utility Mapping Quality Level is in accordance with CI/ASCE 38-02 Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.

Remark Abbreviations
QLA Quality Level A Highest guideline quality level
QLD Quality Level D Lowest guideline quality level

FO — Windstream - Quality D
Barbara Graves, Analyst II-Engineering
11101 Anderson Dr. Suite 100
Little Rock, AR 72212
(501) 748-4590
WCI.OSP.Permits@windstream.com

FO2 — ICN - Quality D
Mike Broderick, OSP Telecom Engineer Sr.
400 E 14th St
Des Moines, IA 50319
(515) 725-4610

Clarke Electric Cooperative
Brad Wilson, Manager of Engineering
1103 N. Main
Osceola, IA 50213-0161
(641) 342-2173
bwilson@cecnet.net

W — Rathbun Regional Water - Quality D
Mike Stevens, Construction Foreman
16166 Hwy J-29
Centerville, IA 52544
(641) 647-1084
Mstevens@rrwa.net

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 — Survey Line
- 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

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

Benton Twp.
T-71N R-21W
Sec. 7

N

743
744
745
746
747
748

Begin Project
Sta. 744+13

Begin Paving
Sta. 744+85

End Paving
Sta. 745+55

End Project
Sta. 746+29

IA 14

FO2
W
FO

Sta. 745+21
8' x 6'x 76' RCB
W/ 8' x 9' Tapered Inlet
DA = 454 Acres V.R.
(Remove)

24" x 62' CMP
(Remove)

Sta. 745+22
Install 8'x9'x159' RCB
F.L. = Lt. 964.45
Rt. 957.21

18" x 26' CMP
(Remove)

Remove

Shape Area
to Drain

Sta. 748+02.56
(UAC)

18" x 73' RCP
(UAC)

SIGN
TP

Sec. 8

0 FEET 20

IA 14

FILE NO. 31660	ENGLISH	DESIGN TEAM JIA \ DEWOLF \ WARHANK	LUCAS COUNTY	PROJECT NUMBER STPN-014-2(40)--2J-59	SHEET NUMBER D.2

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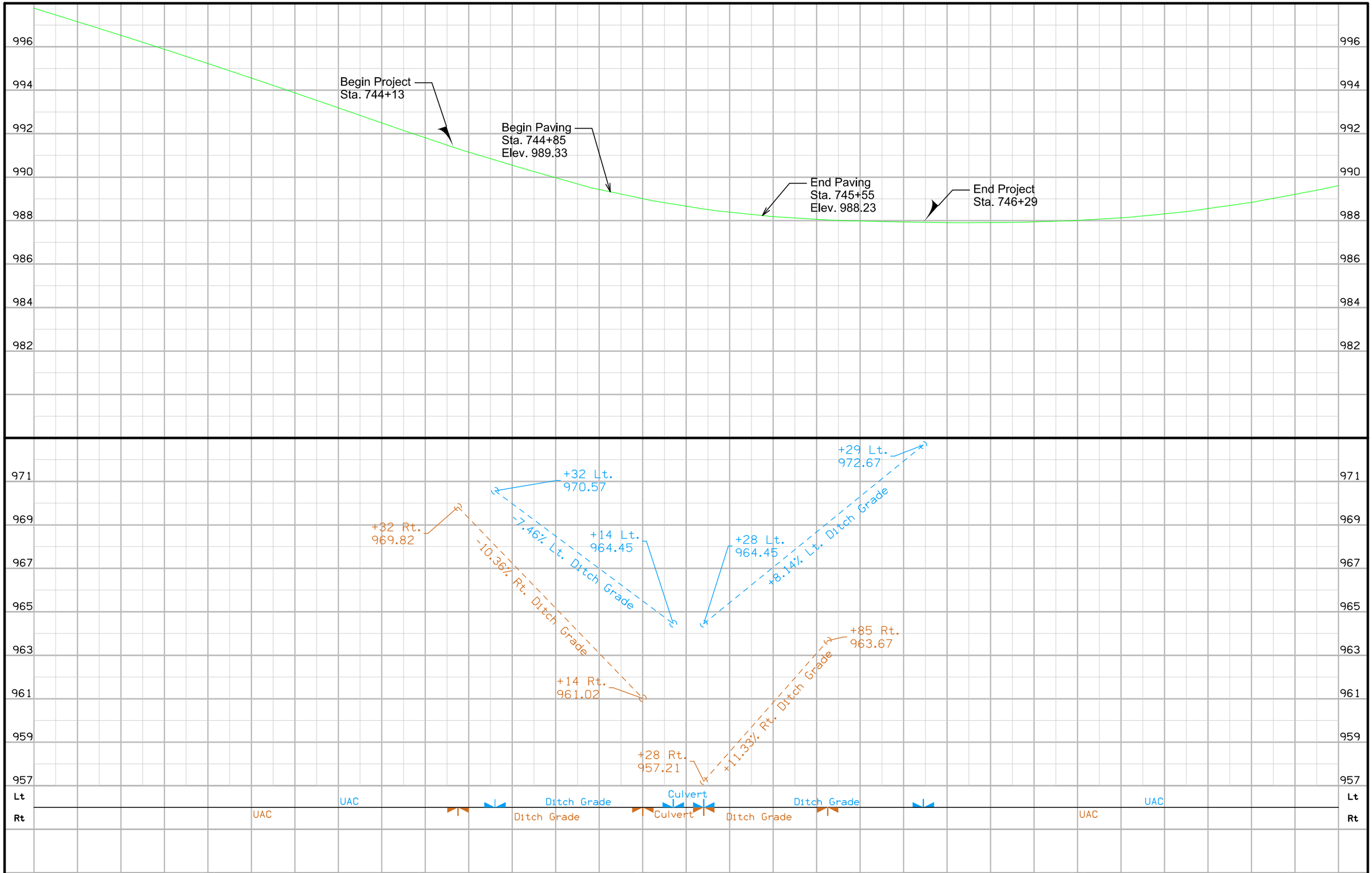

FILE NO. 31660	ENGLISH	DESIGN TEAM JIA \ DEWOLF \ WARHANK	LUCAS COUNTY	PROJECT NUMBER STPN-014-2(40)--2J-59	SHEET NUMBER D.3

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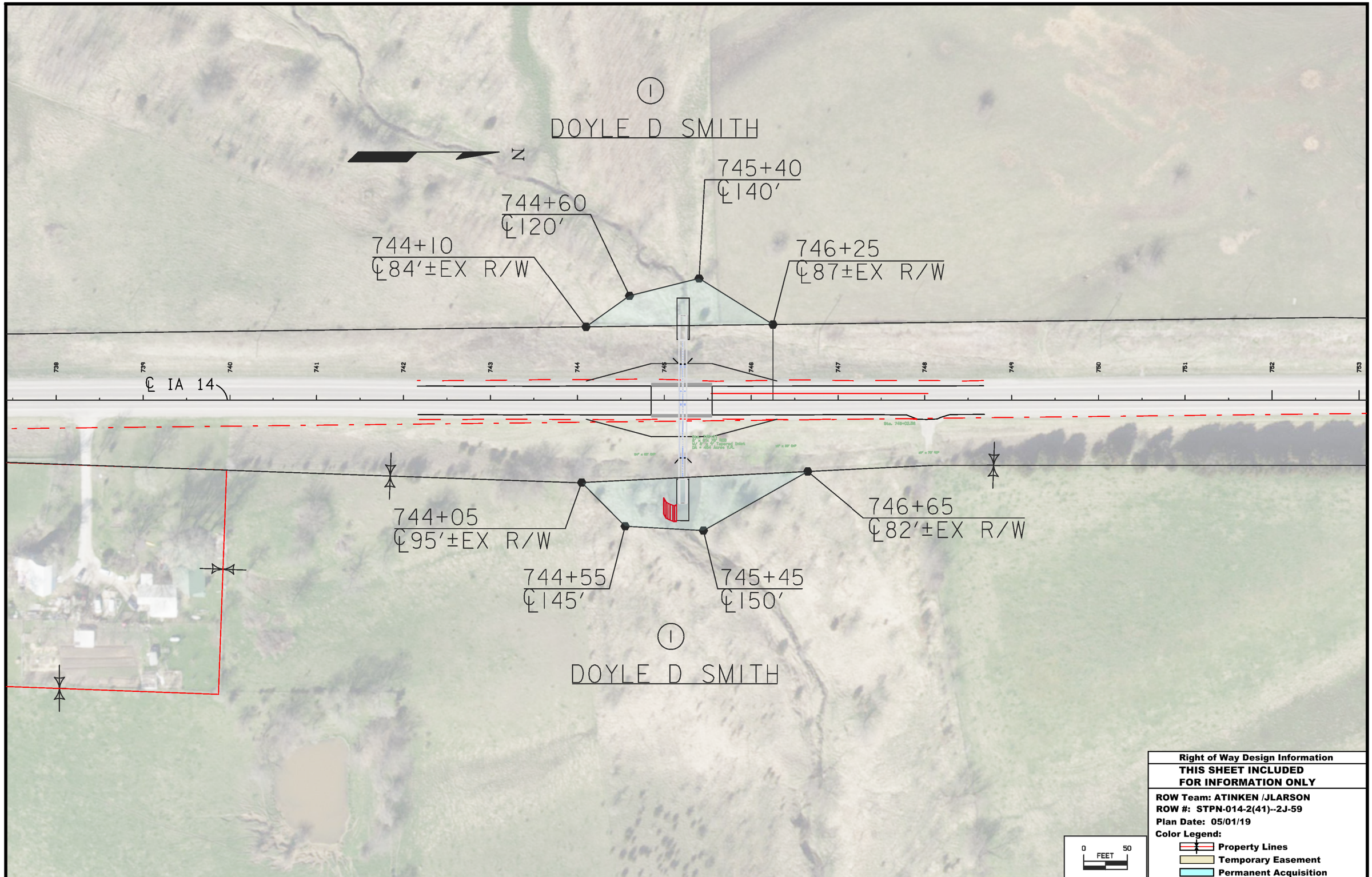
Lucas	ROW: STPN-014-2(41)--2J-59				PIN	18-59-014-010														
	1.2 mi N of N Jct Co Rd H50 (MP 14.6)																			
		STATE			COUNTY			CITY			TEMP EASE		BORROW							
PARCEL NO	OWNER NA	FEE	EASE		FEE	EASE		FEE	EASE	EXCESS			FEE	T.E.	MITIGATION	OTHER	HOUSE	BUILDING(	A/C ONLY	TOTAL ACQ.
1	Doyle D Smith - Fee		0.38 AC																	
1 Parcel	TOTALS0																			

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.



Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: ATINKEN /JLARSON
ROW #: STPN-014-2(41)--2J-59
Plan Date: 05/01/19
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

FILE NO.	ENGLISH	DESIGN TEAM	JIA \ DEWOLF \ WARHANK	LUCAS COUNTY	PROJECT NUMBER	STPN-014-2(40)--2J-59	SHEET NUMBER	H.1

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108-23A
08-01-08

TRAFFIC CONTROL PLAN

Ia. 14 will be closed to traffic during construction. Traffic will be detoured via Ia. 2, US 65 and US 34. Refer to other J sheets for details. Installation, maintence and removal of the detour signs are the responsibility of the Contractors.

111-01
04-17-12

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

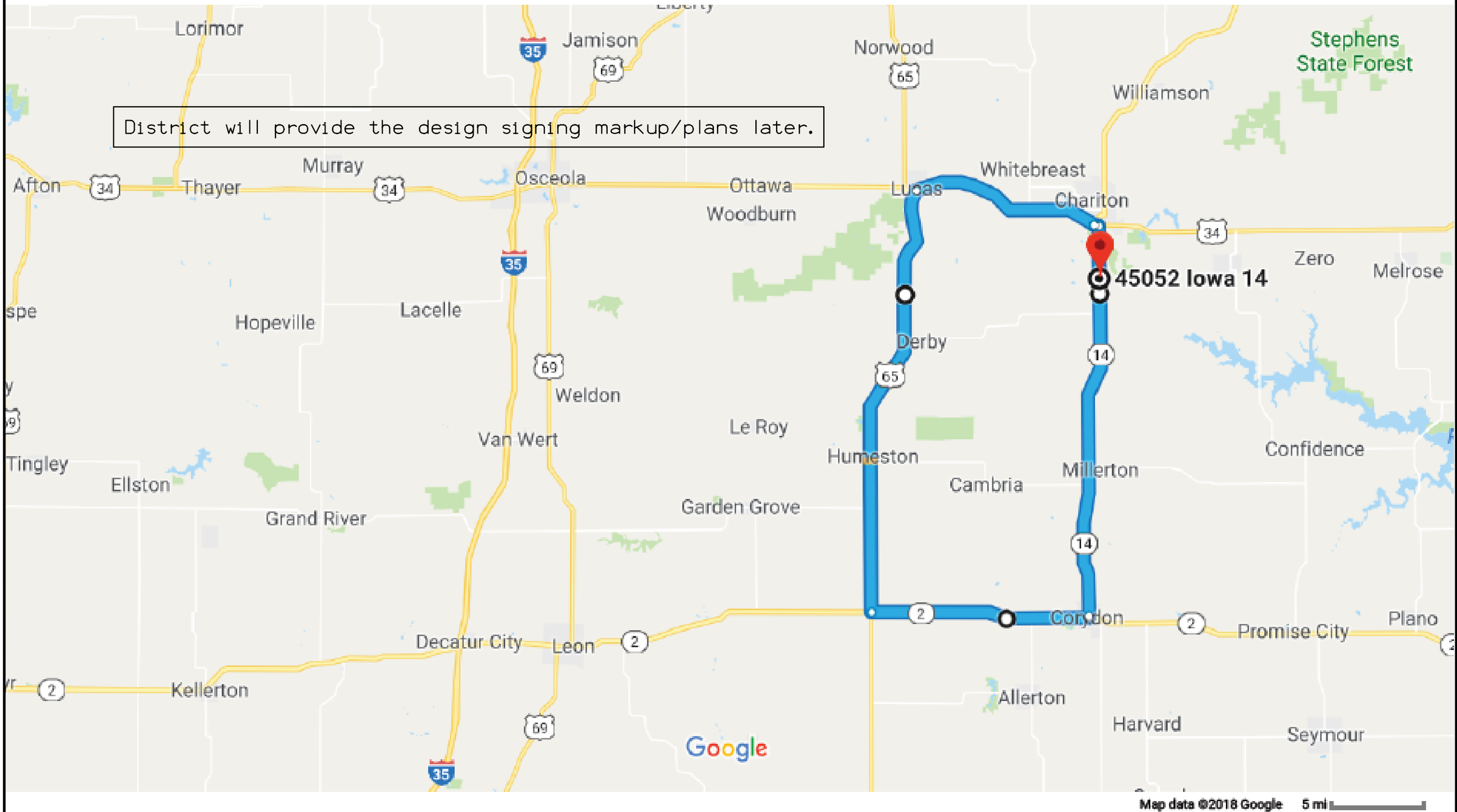
Project	Type of Work

108-25
10-21-14

511 TRAVEL RESTRICTIONS

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
IA 14	Both	Lucas	1.2 mi N of N Jct Co Rd H50 (MP 14.6)					75.2	160			
IA 14	Both	Wayne	In Corydon 0.37 mi N of Jct IA 2	Low Clearance Bridge	Bridge	51980	Vertical					
IA 14	Both	Lucas	In Chariton 0.31 mi N of Jct US 34	Low Clearance Bridge	Bridge	34430	Vertical					

District will provide the design signing markup/plans later.



FILE NO.	ENGLISH	DESIGN TEAM JIA \ DEWOLF \ WARHANK	LUCAS COUNTY	PROJECT NUMBER STPN-014-2(40)--2J-59	SHEET NUMBER J.2

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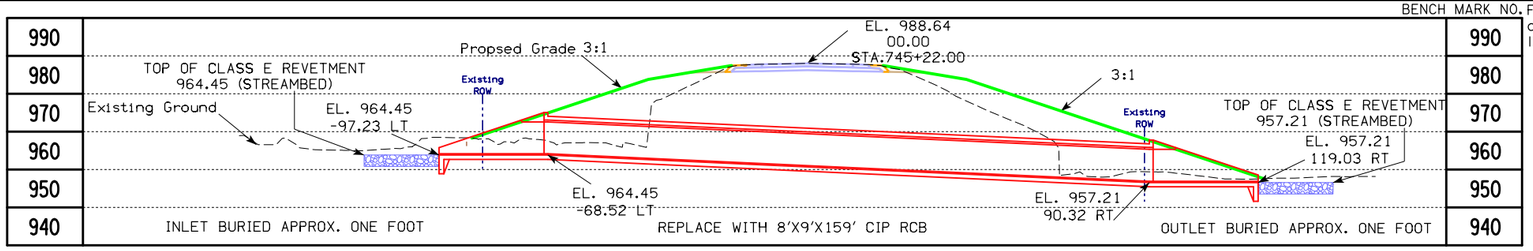
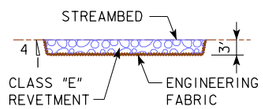
BENCH MARK NO. FEN01 6218113.218,22622161.307,997.836 Set Feno Monument 1780 S. of 450TH St. 300' N. of entrance @ 44604 IA Hwy 14 136' NW of Station 70 Sign 27' E. of IA Hwy 14



LONGITUDINAL SECTION ALONG ℄ CULVERT



TYPICAL CHANNEL PROTECTION

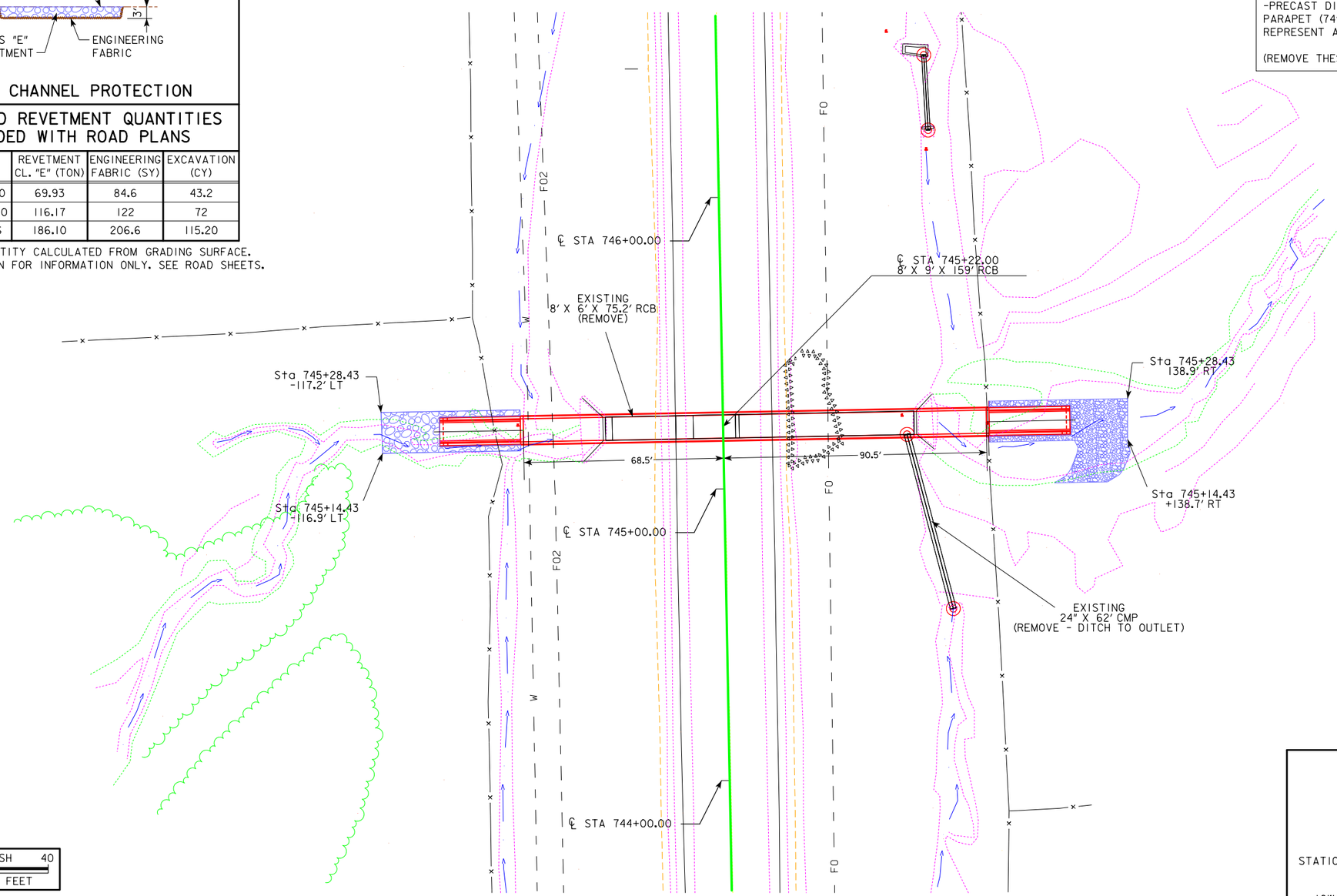
ESTIMATED REVETMENT QUANTITIES INCLUDED WITH ROAD PLANS

LOCATION	REVETMENT CL. "E" (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
INLET 745+22.00	69.93	84.6	43.2
OUTLET 745+22.00	116.17	122	72
TOTALS	186.10	206.6	115.20

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.
QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.

*NOTE TO FINAL DESIGNER
DIMENSIONS BELOW ARE PROVIDED FOR THE PREPARATION OF A SEPARATE PRECAST OPTION TSL IN BRIDGE FINAL DESIGN.
-PRECAST DIMENSIONS WILL BE 170' FROM BACK TO BACK OF PARAPET (74' 0" LEFT AND 96" 0" RIGHT). THESE DIMENSIONS REPRESENT A 169' BARREL PLUS 0' 6" "G" DIMENSIONS ON EACH SIDE

(REMOVE THESE DESIGNER NOTES FROM FINAL SITUATION PLAN.)



SITUATION PLAN

TWO 0° PARALLEL WING HDWL

NOTE:

REMOVE EXISTING: 8'x6'x75.2' RCB
REMOVE EXISTING: 24"x62' CMP DITCH TO OUTLET

HYDRAULIC DATA

DRAINAGE AREA = 454 ACRES VR
Q_{50} = 737 CFS (USGS SIR 2013-5086)

PRELIMINARY UTILITIES LEGEND:

- FO - Windstream - Quality D
- FO2 - ICN - Quality D
- Clarke Electric Cooperative
- W - Rathbun Regional Water - Quality D

LOCATION

T-71N R-21W
SECTION 7 & 8
BENTON TOWNSHIP
LUCAS COUNTY
LATITUDE 40.9666074°
LONGITUDE -093.3078162°

PRELIMINARY

DESIGN FOR 0° SKEW

8' X 9' X 159' REINFORCED CONCRETE BOX CULVERT

SITUATION PLAN

STATION 745+22.00

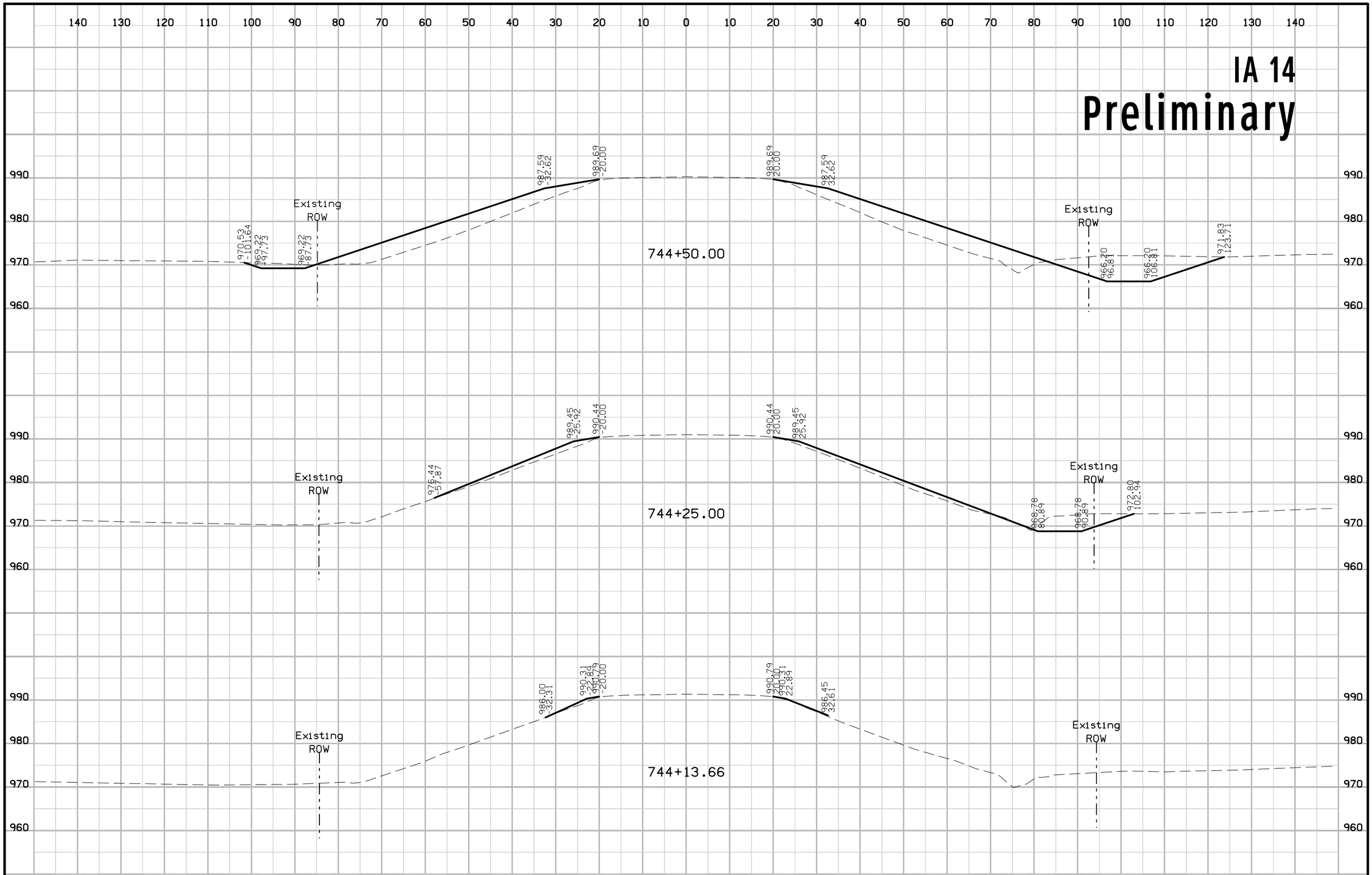
LUCAS

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. ___ OF 1 FILE NO. 31660 DESIGN NO. 0121

DESIGN TEAM JIA \ DEWOLF \ WARHANK | LUCAS COUNTY | PROJECT NUMBER STPN-014-2(40)--2J-59 | SHEET NUMBER V.1

IA 14
Preliminary



FILE NO. 31660	ENGLISH	DESIGN TEAM JIA \ DEWOLF \ WARHANK	LUCAS COUNTY	PROJECT NUMBER STPN-014-2(40)--2J-59	SHEET NUMBER W.1

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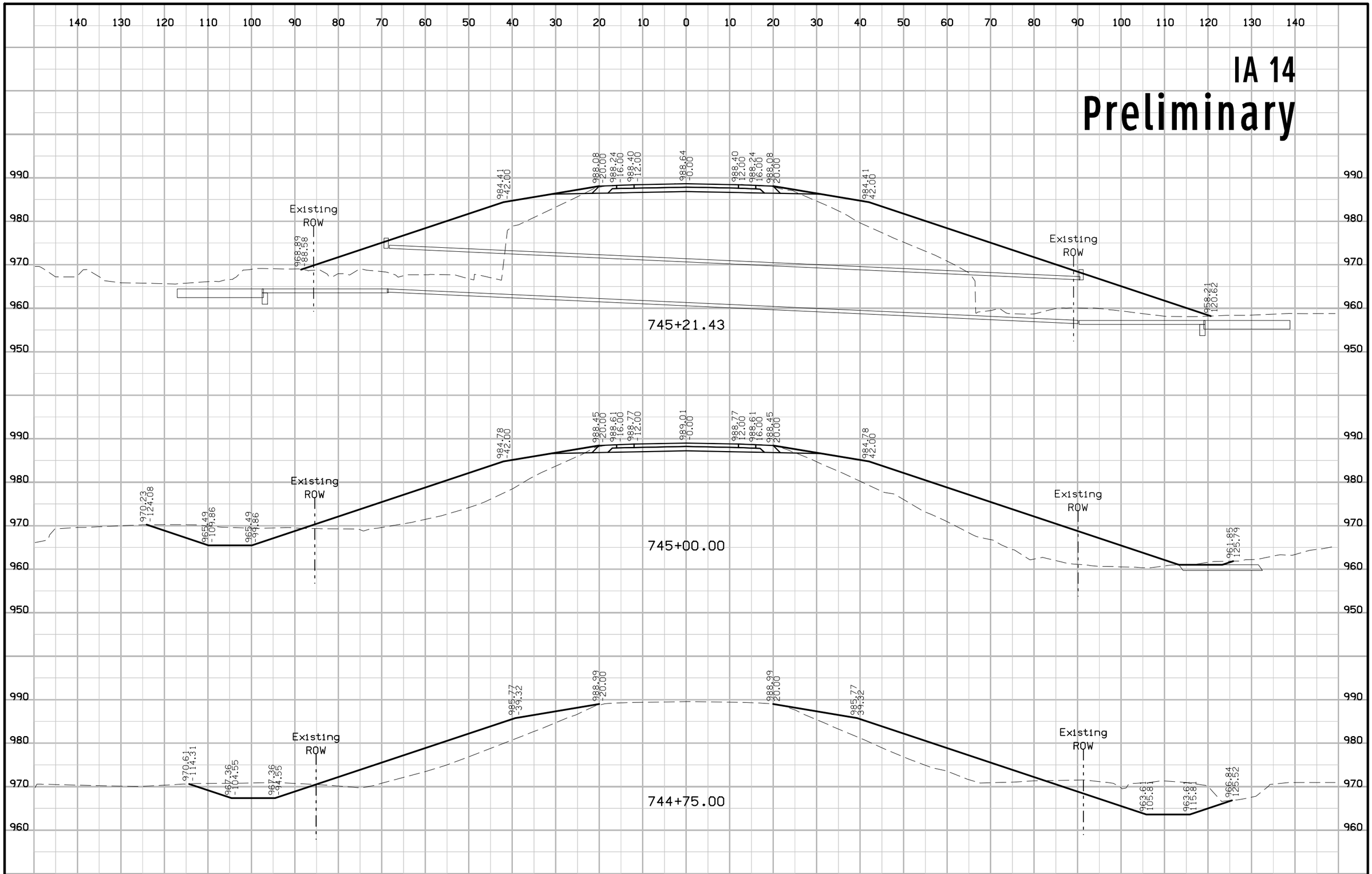
IA 14
Preliminary



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IA 14
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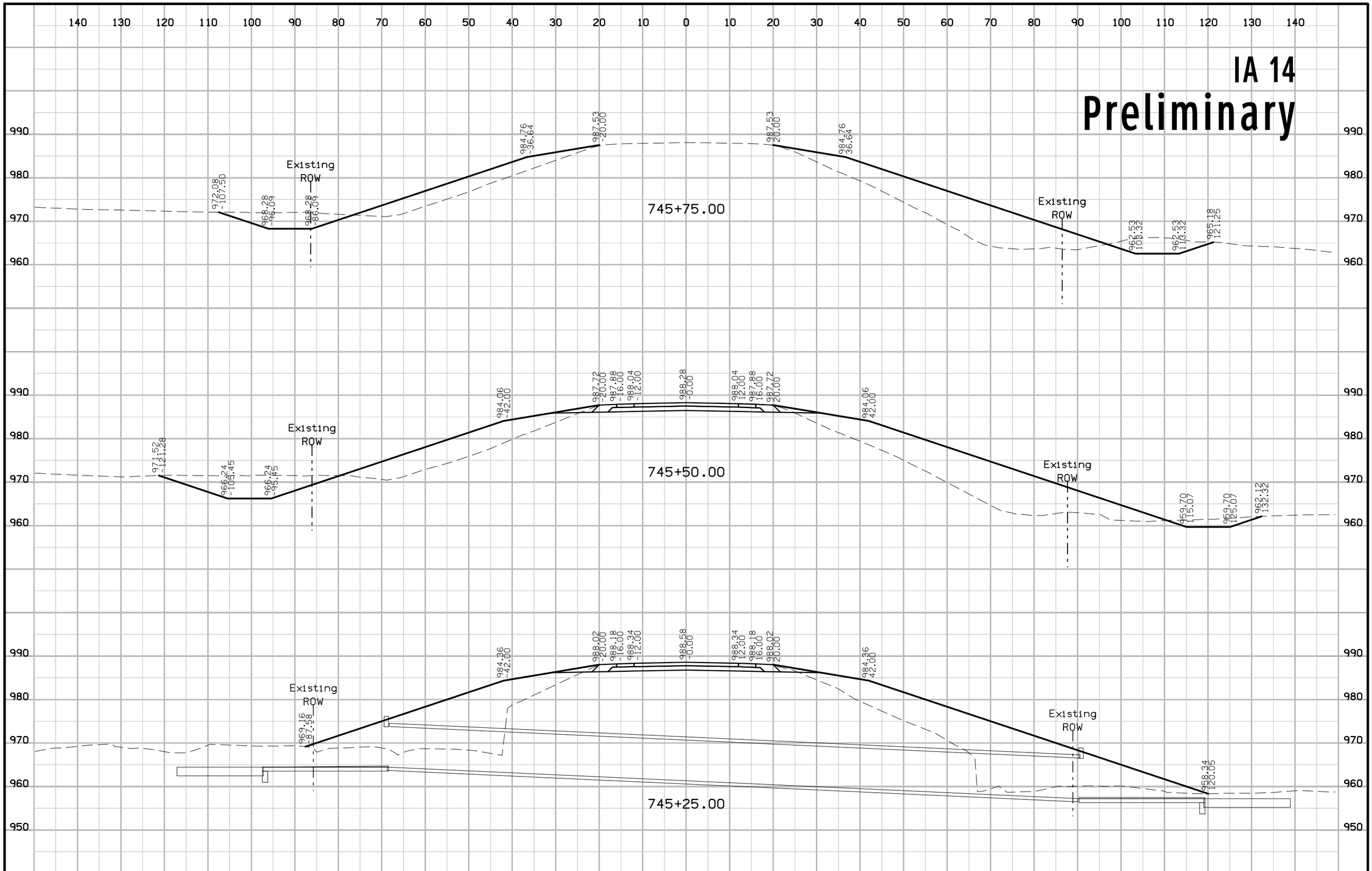

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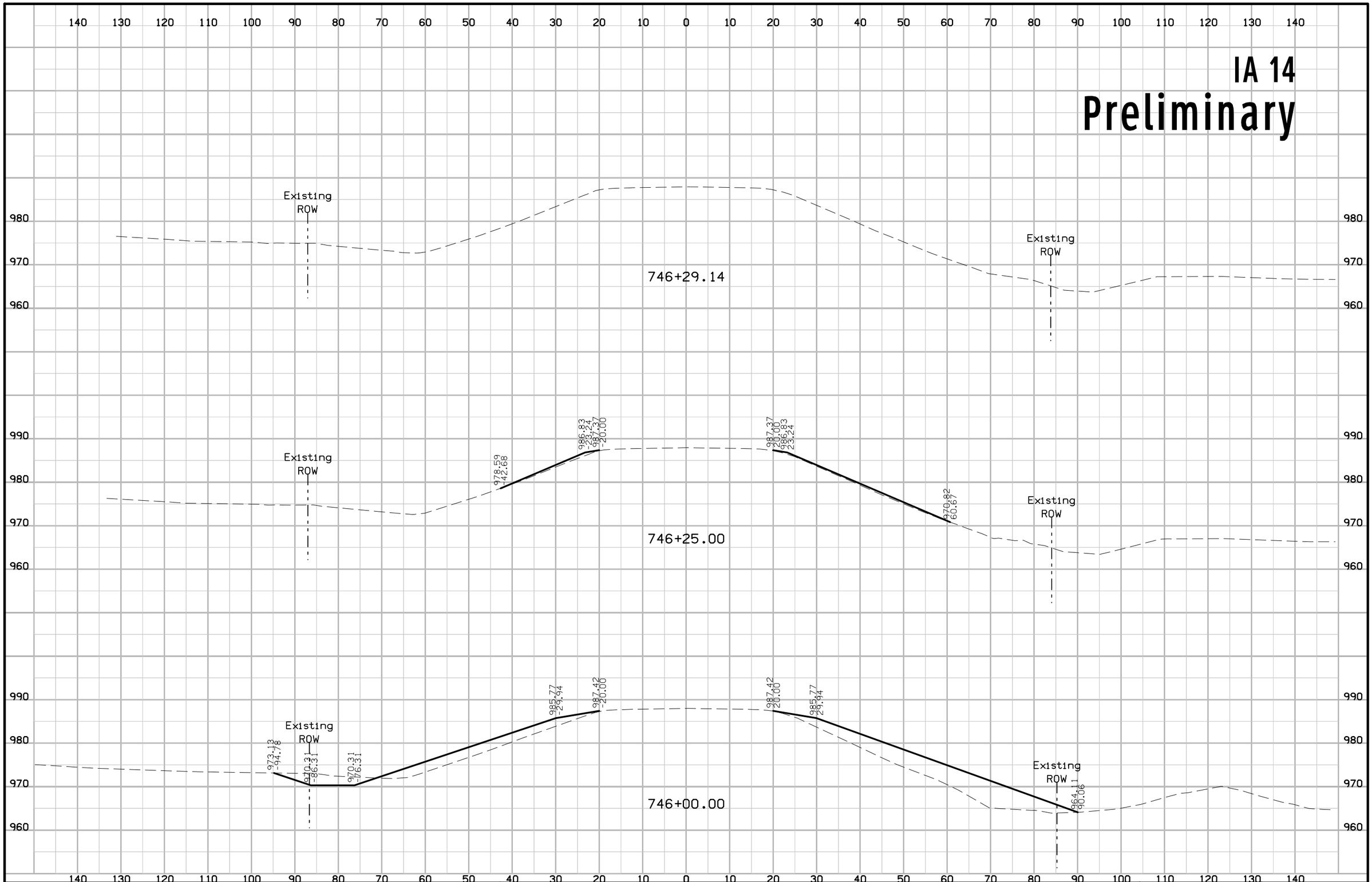
IA 14
Preliminary



FILE NO. 31660	ENGLISH	DESIGN TEAM JIA \ DEWOLF \ WARHANK	LUCAS COUNTY	PROJECT NUMBER STPN-014-2(40)--2J-59	SHEET NUMBER W.4

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