IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE: Right of Way

ATTENTION: M. J. Sankey

FROM: Jim Schoenrock

OFFICE: Design

DATE: August 3, 2012

REF. : Warren County
Proj. #: STP-92-5(51)--2C-91
ROW#: STPN-92-5(50)--2J-91
PIN: 04-91-092-010-01

SUBJECT: Right of Way Submittal (D5)

This project involves the reconstruction of IA 92 from west of Kennedy Street to east of N Street in Indianola. The project is divided into a rural and an urban section. The rural section extends from west of Kennedy Street, 2.5 miles to County Road R-63. The urban section extends from R-63 to just east of N Street, a distance of approximately 1.5 miles. The rural part will provide two-lane cross section with a 28 foot pavement and 8 ft. paved shoulders. The paved shoulders will also be shared use paths. Eastbound and westbound right and left turn lanes will be provided at Co. Rd. R-57 and Co. Rd. R-63. In the urban area from Co. Rd. R-63 to just east of Spruce St. a 3-lane roadway will be provided, which will consist of 40 foot back-to-back curbed roadway including a 16 ft. wide continuous center turn lane. A 10 foot wide shared use path is proposed on the north side of the roadway from Co. Rd. R63 east to Spruce Street. A 5 foot wide sidewalk is proposed on the north side of the roadway from Spruce Street east to South M Street. Curb and gutter widening will be done from just east of Spruce Street east to just west of M Street where it meets the existing curb and gutter section.

The rural section of IA 92 west of County Road R63 will be closed to traffic and detoured. Access to the private properties will be maintained during the construction. Traffic on the urban section of IA 92 east of County Road R63 will be maintained via staging. Traffic on Co. Rd. R-57, Co. Rd. R-63, and Y St. will be maintained during construction.

Priority IV (a) access rights are to be acquired on this project from the beginning of the project, Sta. 256+50 to County Road R63, Sta. 391+01.

The project directory is W:\Projects\P0591998\9109201004\Design. No printed plan sheets are included with this submittal. PDF files of the sheets can be found on the network in W:\Projects\P0591998\9109201004\Design\Design Events\D5 folder. Plans and cross section files have been sheeted for batch plotting. The file, ProjectDocumentation_91092051.xlsm has a description of the MicroStation and GEOPAK files, chains and profiles. It also specifies the scale and number of sheets in each file.

Construction need lines required for this project are at the catch (intercept) point and have been added to the design file. The Office of ROW is advised to attach the following design models:

File	Model	Level	Need Type
91092051.dsn	Road_Design_Linework	dsnGroundlineIntercept	Permanent
91092051.dsn	ML_0050_IA092	dsnGroundlineIntercept	Entrances
91092051.dsn	SR_0050_KENNEDY_ST	dsnGroundlineIntercept	Entrances
91092051.dsn	SR_0050_R57	dsnGroundlineIntercept	Entrances
91092051.dsn	DET_0050_R57	dsnGroundlineIntercept	Temporary
91092051.dsn	DET_0050_R63	dsnGroundlineIntercept	Temporary
91092051.dsn	DET_0050_YSTA	dsnGroundlineIntercept	Temporary
91092051.dsn	DET_0050_YSTB	dsnGroundlineIntercept	Temporary
91092051.dsn	DET_0050_YSTC	dsnGroundlineIntercept	Temporary
91092051.dsn	DET_0020_IA092_NE	dsnGroundlineIntercept	Temporary
91092051.dsn	DET_0020_IA092_SE	dsnGroundlineIntercept	Temporary
91092051.dsn	DET_0020_SPRUCE	dsnGroundlineIntercept	Temporary

Culverts have not been completed (B1). Preliminary Bridge Design indicates there will be no right of way impacts due to culvert adjustments.

A final borrow site has been selected and the conceptual borrow design has been determined to be Borrow Site 1 north of IA 92 between Sta. 297+00 and 310+00. This will be a drainable borrow. The borrow location(s) is shown in file W:\Projects\P0591998\9109201004\Soils\91092051_S2.sol. Soils Design indicates there are no stability concerns that would require additional Right of Way.

The mitigation area for this project will be combined with the Warren County Interstate 35 mitigation area at the North River II wetland mitigation site.

There are two locations where the storm sewer outlets on the south side of IA 92 that we are requesting permanent easement. These are at approximate Sta. 395+00 and Sta. 426+00. Needlines have been drawn in these areas.

Utilities on this project are as follows:

Paetac Iowa Communications Network
Lightcore (Digital Teleport)
Iowa Network Service
Indianola Municipal Utilities
MCI
Quest
Mid-American
Mediacom
Warren Rural Water
Kinder Morgan

The current letting date is 1/15/14.

You may indicate your acceptance or request additional information by e-mail.

JRS:mk
Attach.
cc: M. J. Kennerly
K. D. Nicholson
D. L. Maifield
R. L. Stanley
Judy Lensing
E. J. Ranney
D. A. Widick
S. J. Gent
T. Crouch
E. C. Wright
J. N. McCollough
J. Vortherms
G. Mulder
N. L. McDonald
G. A. Novey
D. R. Claman
J. P. Rost
S. C. Marler
L. C. Funnell
T. L. Gettings
M. A. Swenson
J. W. Smith
D. A. Popp
B. Bradley
J. Armstrong
B. Clancy

D-5 Checklist

_X___ D-5 shell letter completed
_X___ Complete x-sections available
_X___ Plans and cross section files have been sheeted for batch plotting.
_____ Culverts and structures complete
_N/A_ Overhead signs and signals preliminary location identified.
_N/A_ Structure TS+L for all 4' and larger, pipes or culverts.
_X___ Entrance (PDA) locations match access control letter
_X___ Entrance profile(s) on the plans and x-sections
_N/A_ Stability berms completed
_X___ Final ditching done
_X___ Borrows identified
_N/A_ Wetland ROW requirements identified
_X___ Plan sheets checked for Township Range, scale, and other details
_X___ Plan sheets PDFs created and check printed
_N/A_ Tab sheet for special needs included
_X___ Utility Legend

WARREN Co.

UNKNOWN PVMNT-GRADE AND REPLACE

STP-092-5(51)--2C-91

LETTING DATE 1-15-2014

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 - 7	Typical Cross Sections and Details
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 29	IA 92
E Sheets	**Side Road Plan and Profile Sheets**
* E.1	Kennedy St
* E.2	R-57
* E.3	90th Ave
* E.4	R-63
* E.5	110th Ave
F Sheets	**Detour or Temporary Pavement Sheets**
* F.1	R-57
* F.2	R-63
* F.3 - 5	Y St
* F.6 - 7	IA 92 North side East end
* F.8	IA 92 South side East end
* F.9	Spruce St
G Sheets	**Survey Sheets**
G.1 - 5	Reference Ties and Bench Marks
G.6 - 9	Horizontal Control Tab. & Super for all Alignments
J Sheets	**Traffic Control and Staging Sheets**
* J.1	Traffic Control Plan
* J.1	Staging Notes Stage
* J.1	Tabulation of Special Events
* J.2	Traffic Control & Staging Legend & Symbol Info. Sheet
* J.3 - 4	Staging Typicals
* J.5 - 8	Y St
* J.9 - 10	IA 92 East end
* J.11	Spruce St
M Sheets	**Storm Sewer Sheets**
M.1	Storm Sewer Tabulations
M.2	Storm Sewer Legend & Symbol Information Sheet
M.2 - 14	Storm Sewer Plan and Profile Sheets IA 92
W Sheets	**Mainline Cross Sections**
W.1	Cross Sections Legend & Symbol Information Sheet
W.2 - 159	IA 92 Cross Sections - Rural Section
W.160 - 206	IA 92 Cross Sections - Urban Section
W.207 - 220	IA 92 Cross Sections - Widening Section
X Sheets	**Side Road Cross Sections**
X.1 - 3	Kennedy St
X.4 - 11	R-57
X.12 - 21	90th
X.22 - 26	R-63
X.27 - 34	Y St
X.35 - 47	Detour R-57
X.48 - 60	Entrance 259
X.61 - 72	Detour R-63
X.73 - 90	Detour Y St
X.91 - 100	Detour IA 92 North side East end
X.101 - 104	Detour IA 92 South side East end
X.105	Detour Spruce St

Iowa Department of Transportation

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

WARREN COUNTY

UNKNOWN PVMNT-GRADE AND REPLACE

Ia. 92 From Just W. Of Co. Rd. R-57
E. To S. Kenwood Blvd. In Indianola

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

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

REVISIONS

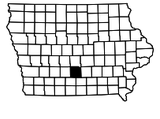
TOTAL
PROJECT IDENTIFICATION NUMBER
04-91-092-010-01
PROJECT NUMBER
STP-092-5(51)--2C-91
R.O.W. PROJECT NUMBER
STPN-092-5(50)--2J-91

MILEAGE SUMMARY

105-1
09-27-94

Div.	Location	Lin. Ft.	Miles
1	RURAL: STA 255+00.00 to STA 390+50.00	13,550	2.566
2	URBAN: STA 390+50.00 to STA 467+00.00	7,650	1.449
	Total Net Project Lenght	21,200	4.015

For Project Location Map
Refer to Sheet A.2



DESIGN DATA RURAL

2014 AADT	6500	V.P.D.
2034 AADT	11000	V.P.D.
2034 DHV	1130	V.P.H.
TRUCKS	8	%
Total Design ESALs	--	

DESIGN DATA URBAN

2014 AADT	9500	V.P.D.
2034 AADT	16000	V.P.D.
2034 DHV	1650	V.P.H.
TRUCKS	8	%
Total Design ESALs	--	

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	James R. Schoenrock	Primary Signature Block

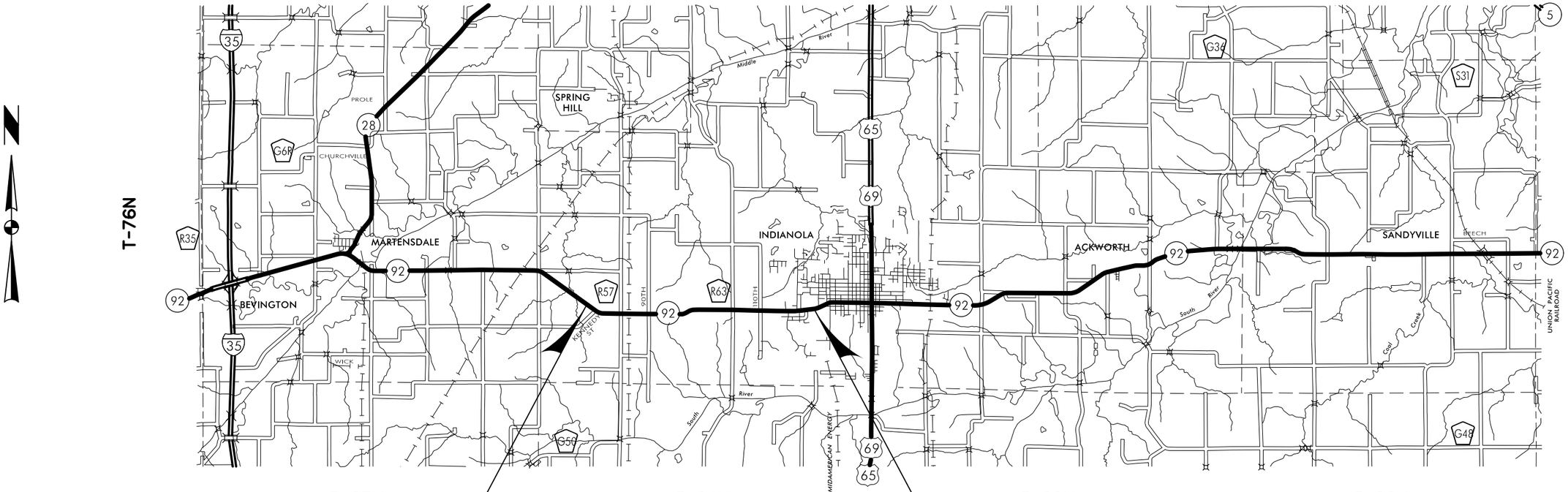
PRELIMINARY PLANS

Subject to change by final design.

Preliminary D5 PLAN

ENGLISH | IOWA DOT | DESIGN TEAM Schoenrock\Holst\Bennett\Janus | WARREN COUNTY | PROJECT NUMBER STP-092-5(51)--2C-91 | SHEET NUMBER A.1

3:28:42 PM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051A01.sht



LOCATION MAP SCALE
0 1 2 3
Miles

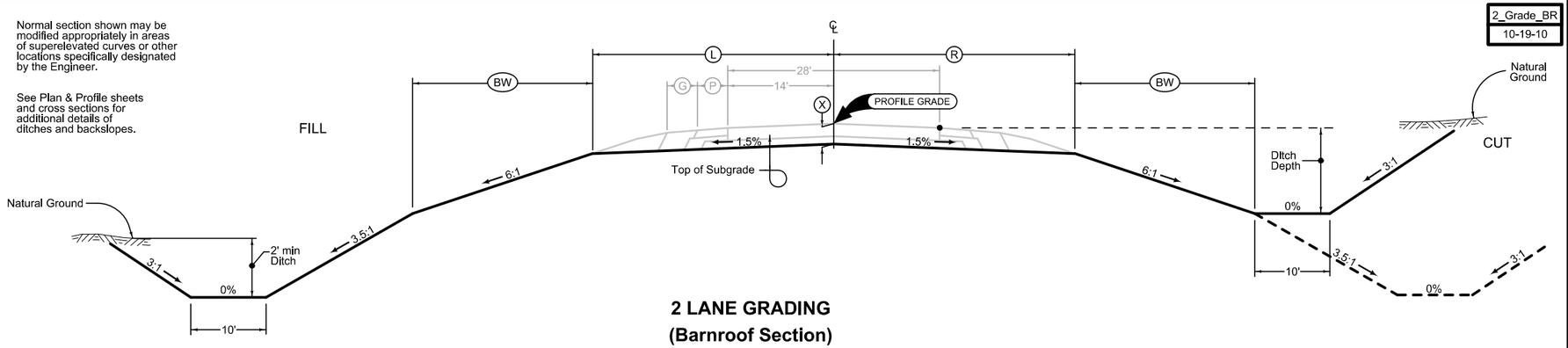
ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER A.2

3:28:45 PM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051A01.sht

LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet
IA 92	256+50.00	391+00.00	35.2	35.2	16	16.4

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.



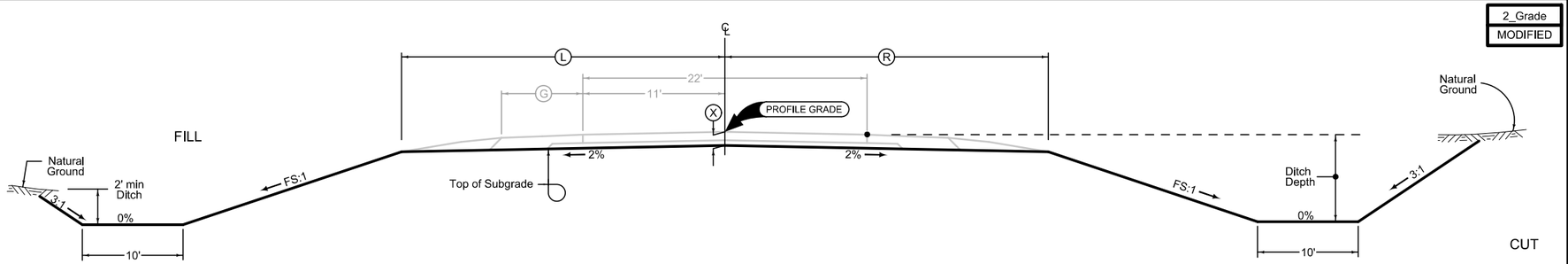
2_Grade_BR
10-19-10

2 LANE GRADING
(Barnroof Section)

LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	FS
R-57	1280+60.00	1283+61.24	27.0	27.0	16	4
R-57	1383+96.17	1386+06.00	27.0	27.0	16	4
R-63	3389+30.00	3390+23.00	27	27	16	4
R-63	3392+23.00	3392+70.00	27	27	16	4

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_Grade
MODIFIED

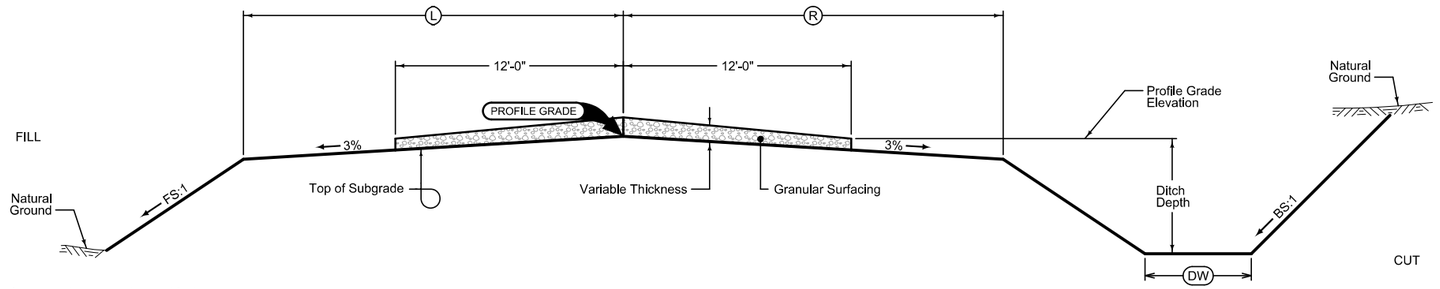
2 LANE GRADING

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER B.1

9:26:40 AM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051B01.sht

LOCATION			DIMENSIONS				
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	FS	BS	(DW) Feet
KENNEDY ST	1257+45.00	1258+68.00	15	15	3	3	5
90TH AVE	2305+85.00	2307+00.00	12-13	12-13	2.5	2.5	0
90TH AVE	2307+00.00	2308+00.00	13	13	3	3	0-5
90TH AVE	2308+00.00	2310+06.21	13	13	3	3	5
90TH AVE	2310+50.21	2313+85.00	13	13	3	3	5
Accessway ENT259	103+05.00	104+27.00	12	12	3	3	5

2_GradeGran
04-17-12



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.

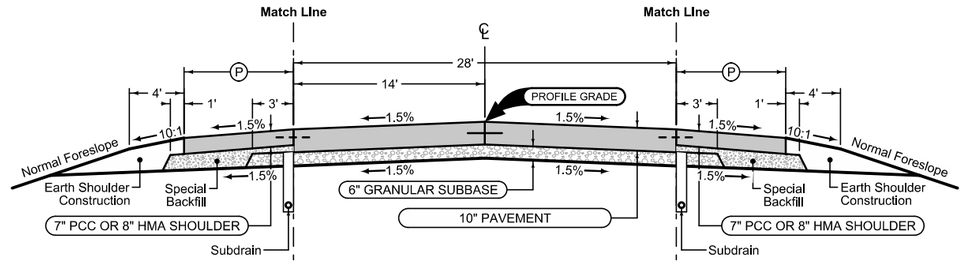
Place Granular Surfacing as follows:
Grading design application rate is ___ tons per mile.
Paving design application rate is ___ tons per mile.

GRADING AND GRANULAR SURFACING

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-3
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

2_P_ALT_ 10-19-10		
STATION TO STATION		(P) Feet
256+50.00	282+86.00	8
291+18.00	390+19.00	8



Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-3
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

2_P_ALT_ 10-19-10		
STATION TO STATION		(P) Feet
256+50.00	280+44.00	8
284+56.00	387+75.00	8

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

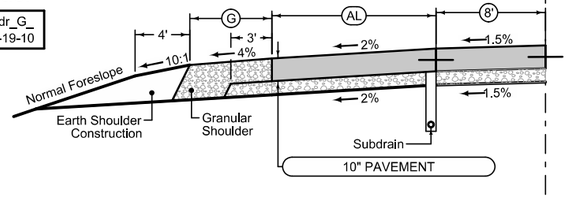
2P_ 10-19-10	
STATION TO STATION	
256+50.00	391+00.00

Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

Auxiliary Lane Granular Shoulder

2_AuxLane_PCC_ 10-19-10			2_AL_Shldr_G_ 10-19-10
STATION TO STATION		(AL) Feet	(G) Feet
284+48.00	289+38.00	10	6
289+38.00	292+08.00	0-10	6

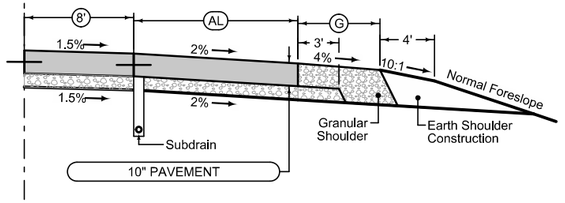


Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

Auxiliary Lane Granular Shoulder

2_AuxLane_PCC_ 10-19-10			2_AL_Shldr_G_ 10-19-10
STATION TO STATION		(AL) Feet	(G) Feet
279+39.00	281+19.00	0-10	6
281+19.00	282+94.00	10	6
386+70.00	388+50.00	0-10	6
388+50.00	390+25.00	10	6



See Tab 100-24 for pavement quantities.

See Tab 112-9 for shoulder quantities.

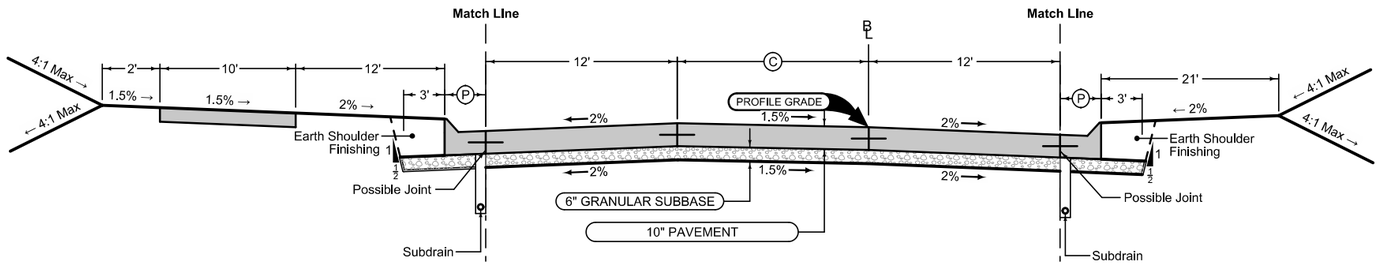
IOWA 92 - RURAL

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

2_Curb_ MODIFIED			
STATION TO STATION		(P) Feet	Curb Type See PV-102
391+00.00	443+18.01	3	6" Standard



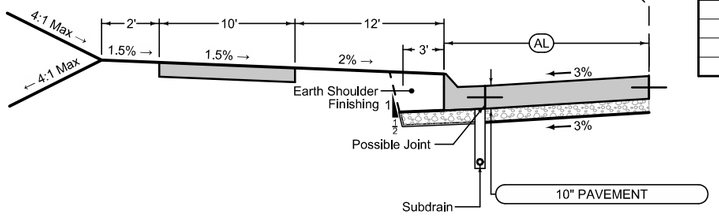
Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

2P_TWLTL_ 10-19-10		
STATION TO STATION		(C) Feet
391+00.00	441+27.50	16
441+27.50	443+18.01	16-12

Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

4_AuxLane_PCC_ MODIFIED			
Direction of Travel	BEGIN STATION	END STATION	(AL) Feet
WEST	391+92.00	396+82.00	13



Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

2_Curb_ MODIFIED			
STATION TO STATION		(P) Feet	Curb Type See PV-102
391+00.00	443+18.01	3	6" Standard

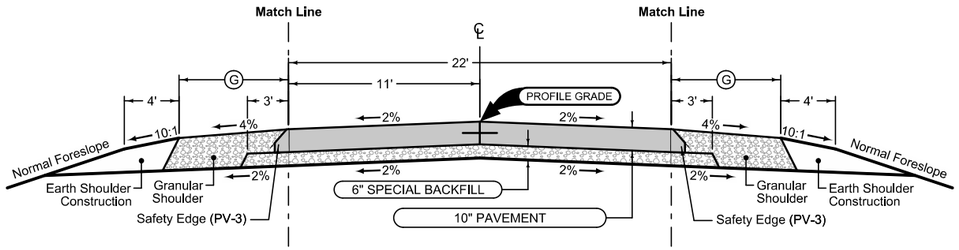
See Tab 100-24 for pavement quantities.

See Tab 112-9 for shoulder quantities.

IOWA 92 - URBAN

Granular Shoulder

2_G_ 10-19-10		
STATION TO STATION		(G) Feet
1280+60.00	1282+80.74	6
1384+68.89	1386+06.00	6



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

2P_ 10-19-10	
STATION TO STATION	
1280+60.00	1283+61.24
1383+96.17	1386+06.00

Granular Shoulder

2_G_ 10-19-10		
STATION TO STATION		(G) Feet
1280+60.00	1282+87.71	6
1384+77.46	1386+06.00	6

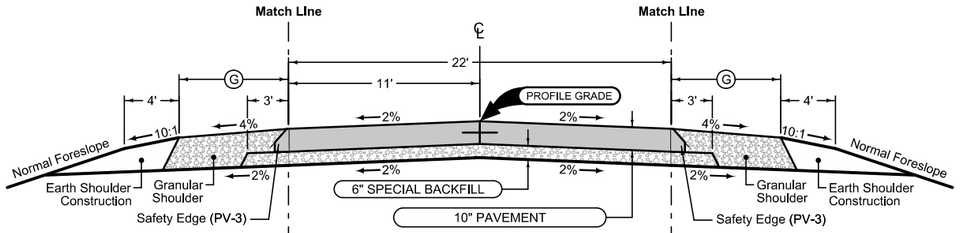
See Tab 100-24 for pavement quantities.

See Tab 112-9 for shoulder quantities.

R-57

Granular Shoulder

STATION TO STATION		2_G_ 10-19-10 (G) Feet
3389+00.00	3390+91.42	6
3391+31.95	3393+05.00	6



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

STATION TO STATION		2P_ 10-19-10
3389+00.00	3390+91.42	
3391+31.95	3393+05.00	

Granular Shoulder

STATION TO STATION		2_G_ 10-19-10 (G) Feet
3389+00.00	3390+91.42	6
3391+31.95	3393+05.00	6

See Tab 100-24 for pavement quantities.

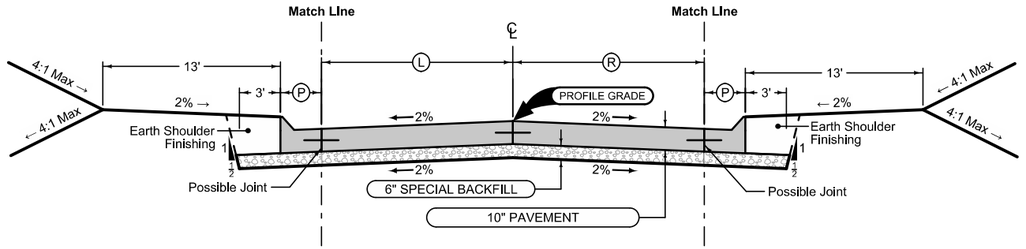
See Tab 112-9 for shoulder quantities.

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

STATION TO STATION		2_Curb_ MODIFIED (P) Feet	Curb Type See PV-102
4414+15.00	4417+25.32	1.5	6" Standard
4417+64.40	4422+60.00	1.5	6" Standard



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

STATION TO STATION		2P_ 10-19-10 (L) Feet	(R) Feet
4414+15.00	4417+25.32	11	11
4417+64.40	4422+60.00	14	14

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

STATION TO STATION		2_Curb_ MODIFIED (P) Feet	Curb Type See PV-102
4414+15.00	4417+25.32	1.5	6" Standard
4417+64.40	4422+60.00	1.5	6" Standard

See Tab 100-24 for pavement quantities.

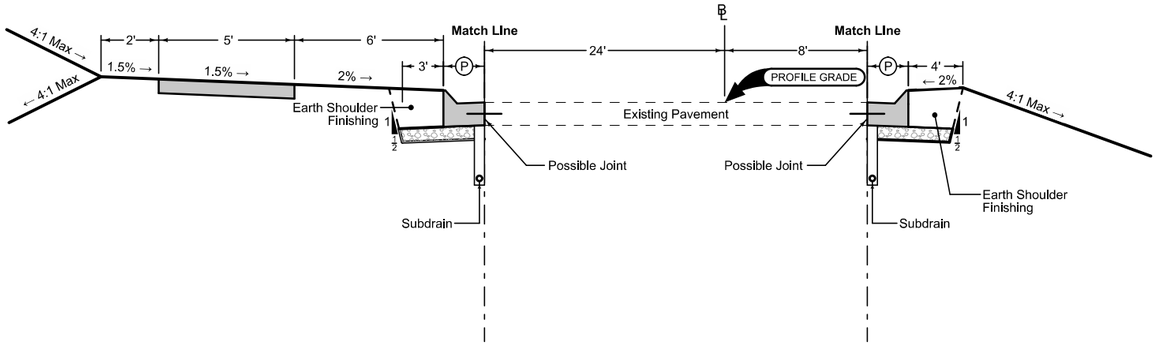
See Tab 112-9 for shoulder quantities.

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

			2_Curb_ MODIFIED
STATION TO STATION		(P) Feet	Curb Type See PV-102
443+18.01	464+92.00	2.5	6" Standard



Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

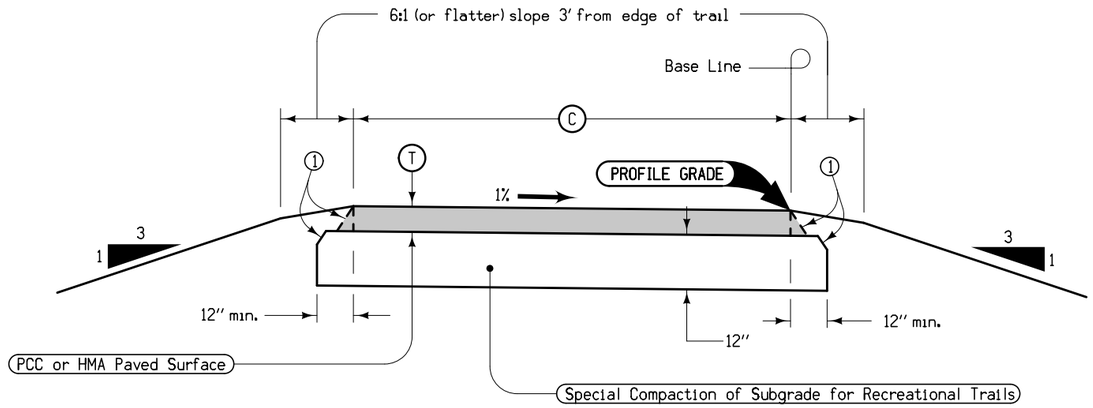
			2_Curb_ MODIFIED
STATION TO STATION		(P) Feet	Curb Type See PV-102
443+18.01	464+92.00	2.5	6" Standard

See Tab 100-24 for pavement quantities.

See Tab 112-9 for shoulder quantities.

IOWA 92 - URBAN WIDENING

7402
MODIFIED



PAVEMENT THICKNESS		
Pavement Type	Trail Width (C)	(T)
PCC	8'	4"
	10' or greater	5"
HMA	8'	5"
	10' or greater	6"

Notes:
Bid item is "Recreational Trail".
(1) Nominal 1:1 slope (HMA only)

STATION TO STATION		PAVEMENT TYPE PCC, HMA, or option	(C) Feet	
391+20.00	441+21.07	x	10	

TYPICAL CROSS SECTION RECREATIONAL TRAIL PAVED SURFACE

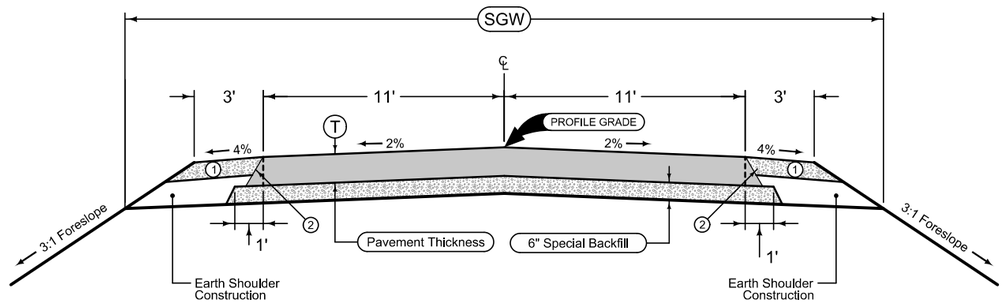
LOCATION			DIMENSIONS				6" Special Backfill	Granular Shoulder	Earth Shoulder Construction
ROAD IDENTIFICATION	STATION TO STATION		HMA		PCC				
			(T) Inches	(SGW) Feet	(T) Inches	(SGW) Feet	Tons/Station	Tons/Station	Station
R-57	11278+95.65	11289+34.97	XX	XX	7	34.5			
R-63	18387+79.00	18396+41.00	XX	XX	7	34.5			

Quantity calculations based on vertical pavement edges.

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

(1) 6" Granular Shoulder

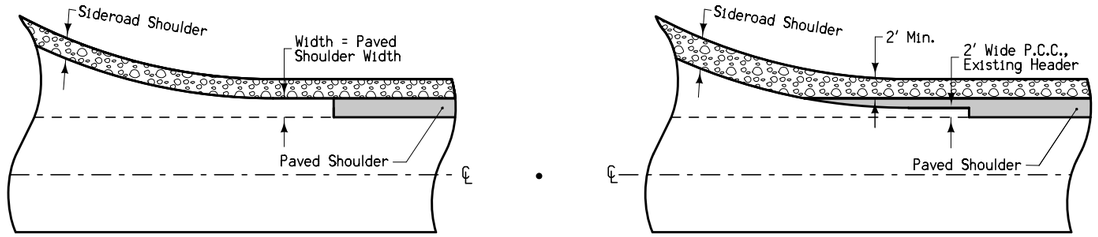
(2) Possible 1:1 slope



2 LANE DETOUR PAVING

2_Detour
10-16-12

7154B
10-20-09

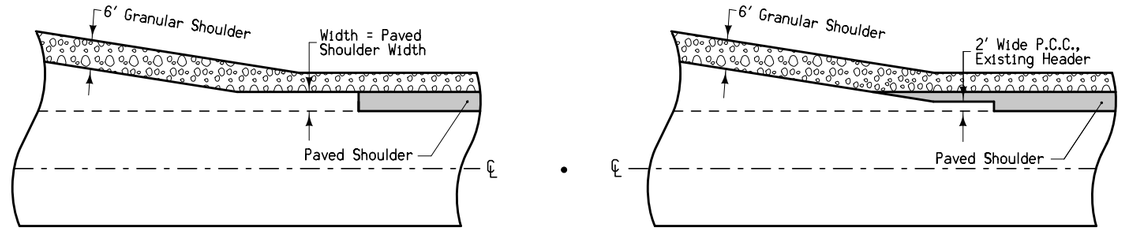


With Newly Constructed Returns

At UAC Returns

PAVED SHOULDER DETAIL AT RETURNS

7154A
10-20-09

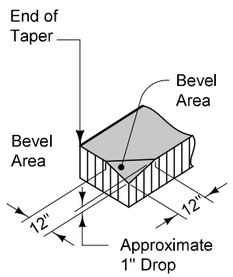


With Newly Constructed Turn Lanes

At UAC Turn Lanes

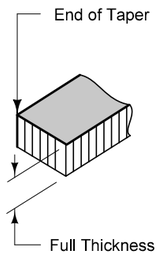
PAVED SHOULDER DETAIL AT TURN LANES

7101
10-19-10



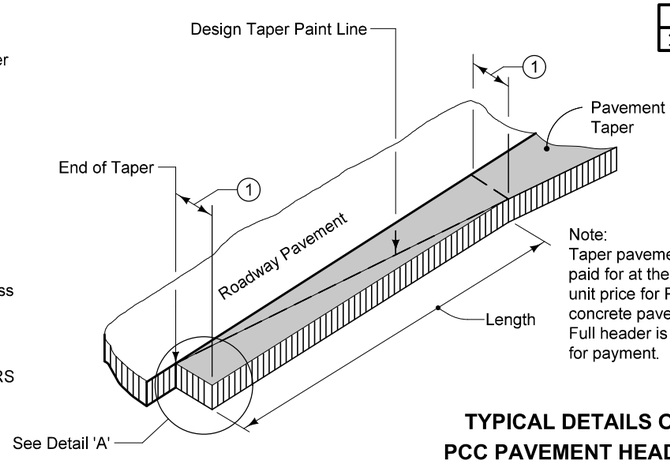
DETAIL 'A'

FOR
GRANULAR SHOULDERS



DETAIL 'A'

FOR
PAVED SHOULDERS

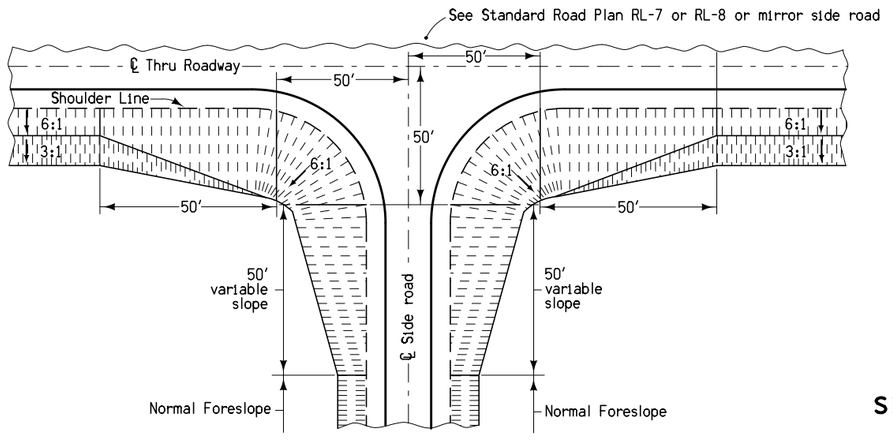


Note:
Taper pavement to be paid for at the contract unit price for P.C. concrete pavement. Full header is included for payment.

TYPICAL DETAILS OF PCC PAVEMENT HEADER

(1) Normal width is 2'-0". Construct 4'-0" width when butting into 4' wide HMA shoulders (See Typical 7154A).

2117
04-15-08



SIDE ROAD GRADING (BARNROOF)

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER B.7

9:26:43 AM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051B01.sht

SURVEY SYMBOLS

- TDC Tree Deciduous
- PPA Power Pole Co. 1
- FWD Wood Fence
- LUM Luminaire
- TEV Evergeen Tree
- LP L.P. Tank
- D Centerline Draw or Stream (Down)
- RET Retaining Walls
- SI Sign
- SHR Shrub
- SI Sign
- EW Edge of Water
- DIK Centerline of Dike or Dam
- FLG Flag Poles
- WM Wind Mill
- FCL Chain Link and Security Fence
- HDG Hedge Row
- TV Satelite TV Dish
- RT Radio Tower
- INB Storm Sewer Beehive Intake
- WV Water Valve
- FHD Fire Hydrants
- WEL Well
- MH Utility Access (Manhole)
- LUM Luminaire
- MIS Miscellaneous
- TPD Telephone Pedestal
- EB Electrical Box
- UB Utility Box
- PR Electic Riser Pole
- FW Wire Fence
- GP Guard Post (Less Than 4 Posts)
- IN Storm Sewer Intake
- TLN Treeline
- TVP TV Pedestal
- SEP Septic Tank
- OUT Tile Outlet
- TIL Tile Line
- UST Underground Tank
- GV Gas Valve
- DU Centerline Draw or Stream (Up)
- BNK Stream Bank
- BL Topo Breakline
- RIP Rip-Rap

- St.S. STA Storm Sewer Line Co. 1
- FO3 FOC Underground Fiber Optic Co. 3
- FO5 FOE Underground Fiber Optic Co. 5
- FO2 FOB Underground Fiber Optic Co. 2
- San. SAA Sanitary Sewer Line Co. 1
- T1 TLA Underground Telephone Line Co. 1
- E1 ELA Underground Electric Line Co. 1
- G GLA Underground Gas Line Co. 1
- TV TVA Underground TV Cable Co. 1
- W WLA Underground Water Line Co. 1
- FO FOA Underground Fiber Optic Co. 1
- E2 ELB Underground Electric Line Co. 2
- San.2 SAB Sanitary Sewer Line Co. 2
- G2 GLB Underground Gas Line Co. 2
- FO4 FOD Underground Fiber Optic Co. 4
- W2 WLB Underground Water Line Co. 2

UTILITY LEGEND

- FO FOA Paetac Iowa Communications Network
- FO2 FOB Lightcore (Digital Teleport)
- FO3 FOC Iowa Network Service
- FO4 FOD Indianola Municipal Utilities
- FO5 FOE MCI
- T1 TLA Qwest
- E1 ELA Mid-American
- E2 ELB Indianola Municipal Utilities
- TV TVA Mediacom
- W WLA Indianola Municipal Utilities
- W2 WLB Warren Rural Water
- San. SAA City of Indianola
- San.2 SAB Private
- G GLA Mid-American
- G2 GLB Kinder Morgan
- St.S. STA City of Indianola
- PPA Mid-American

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
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
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.1

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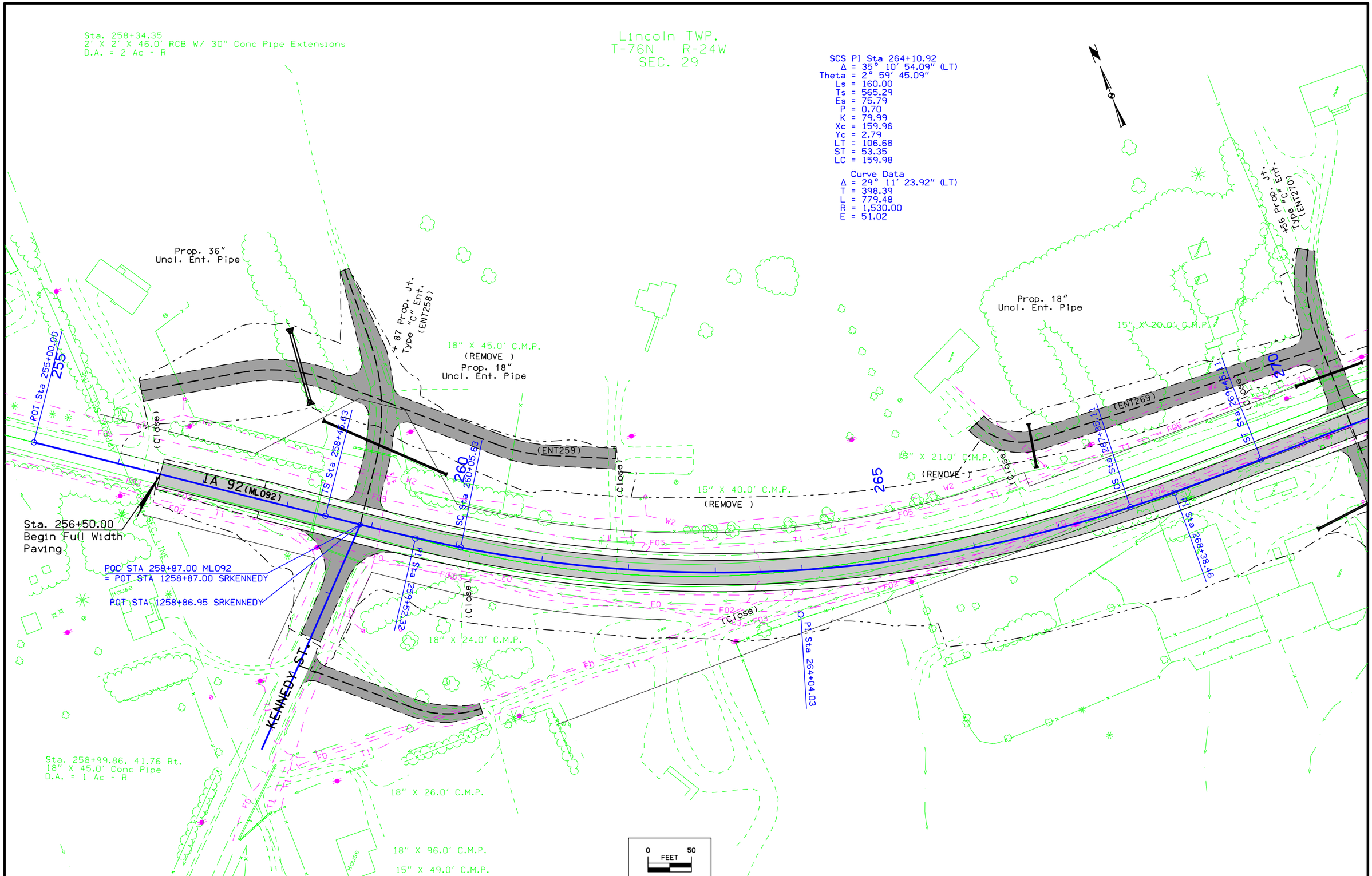

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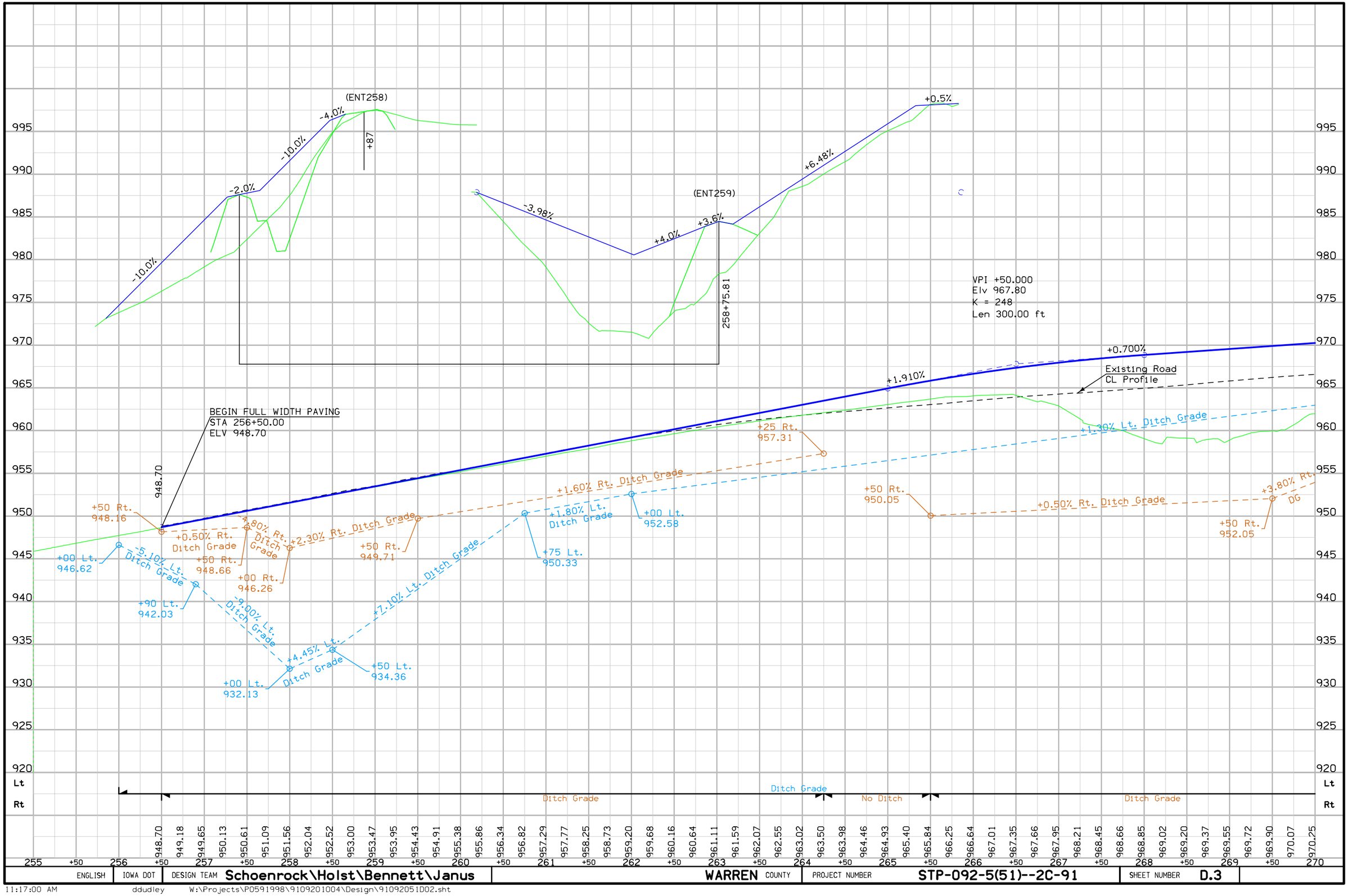

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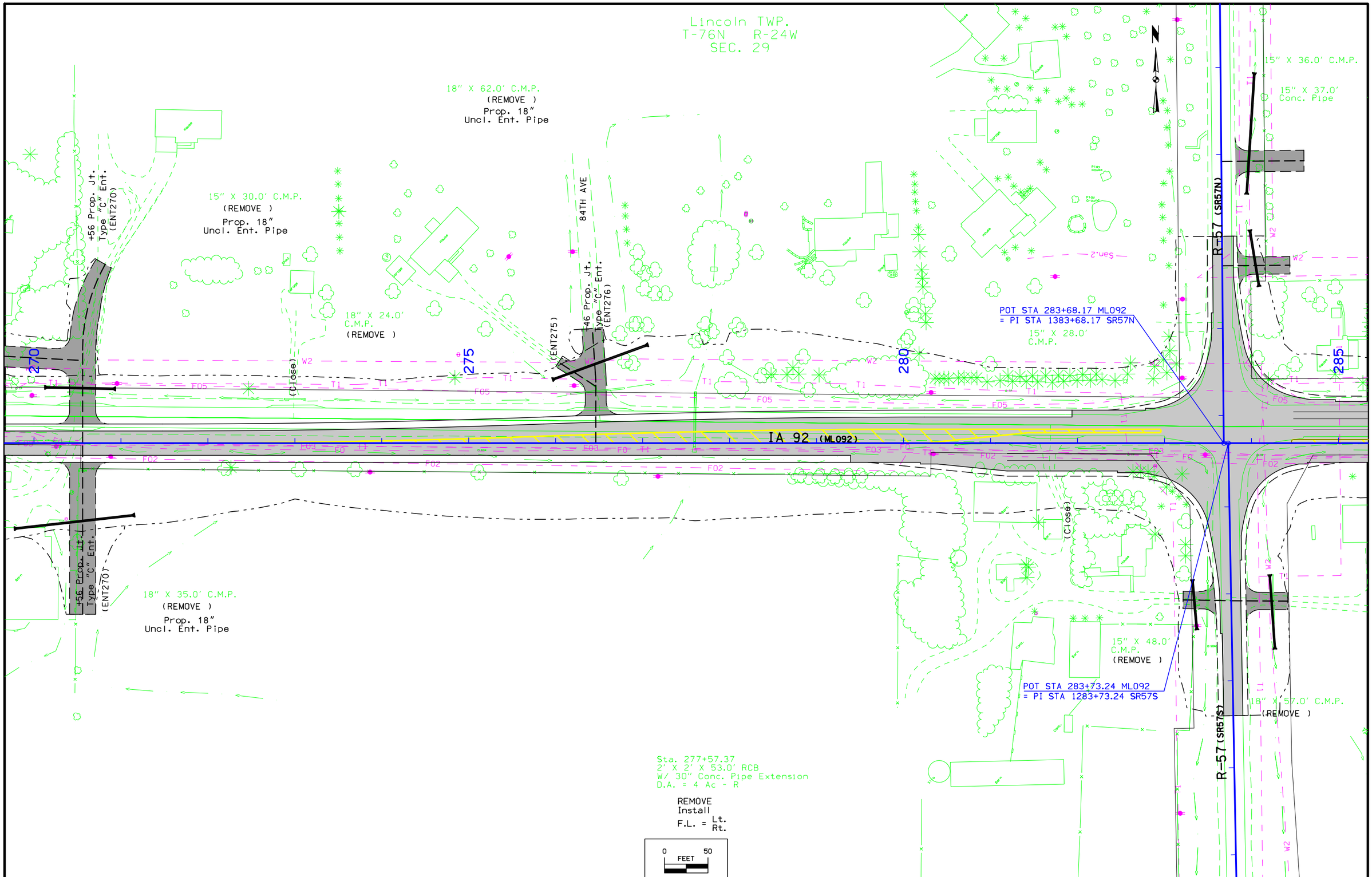

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11:17:02 AM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

(ENT269)
+5.1%
+0.9%
270+56.00
+56
(ENT270)
-3.4%
+4.0%
+10.0%
(ENT276)
-6.6%
-4.0%
+46
(ENT275)
-4.9%
276+46.00

VPI +50.000
Elv 976.20
K = 246
Len 320.00 ft

+0.700%
-0.600%
Existing Road
CL Profile

+00 Rt.
967.90
+50 Rt.
959.65
+1.30% Lt. Ditch Grade
+3.80% Rt. Ditch Grade
+5.50% Rt. Ditch Grade
+00 Lt.
968.18
-0.50% Lt. Ditch Grade
-0.50% Rt. Ditch Grade
+00 Lt.
967.18
-9.20% Lt. Ditch Grade
+00 Lt.
957.98
-3.00% Lt. Ditch Grade
+65 Lt.
956.03
+60 Rt.
965.60
+1.50% Rt. Ditch Grade
+0.90% Lt. Ditch Grade
+00 Lt.
956.19
+5.20% Lt. Ditch Grade
+50 Lt.
956.64
+00 Rt.
969.20
+0.50% Rt. Ditch Grade
+3.50% Lt. Ditch Grade
+00 Lt.
964.44
+00 Lt.
967.94
+75 Rt.
970.08
-1.00% Rt. Ditch Grade
-0.50% Lt. Ditch Grade
+50 Lt.
966.69
+50 Rt.
967.50
-1.00% Rt. DG
+50 Rt.
968.32
+00 Lt.
967.50

Lt
Rt
Ditch Grade
Vari.
Ditch Grade
Ditch Grade
Side Road
Side Road
Ditch Grade
(5 ft wide)

970.42 970.60 970.77 970.95 971.12 971.30 971.47 971.65 971.82 972.00 972.17 972.35 972.52 972.70 972.87 973.05 973.22 973.40 973.57 973.75 973.92 974.10 974.27 974.45 974.62 974.80 974.97 975.15 975.30 975.43 975.53 975.60 975.65 975.68 975.68 975.65 975.60 975.53 975.42 975.30 975.15 975.00 974.85 974.70 974.55 974.40 974.25 974.10 973.95 973.80 973.65 973.50 973.35 973.20 973.05 972.90 972.75 972.60 972.45 972.30

270 +50 271 +50 272 +50 273 +50 274 +50 275 +50 276 +50 277 +50 278 +50 279 +50 280 +50 281 +50 282 +50 283 +50 284 +50 285

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.5

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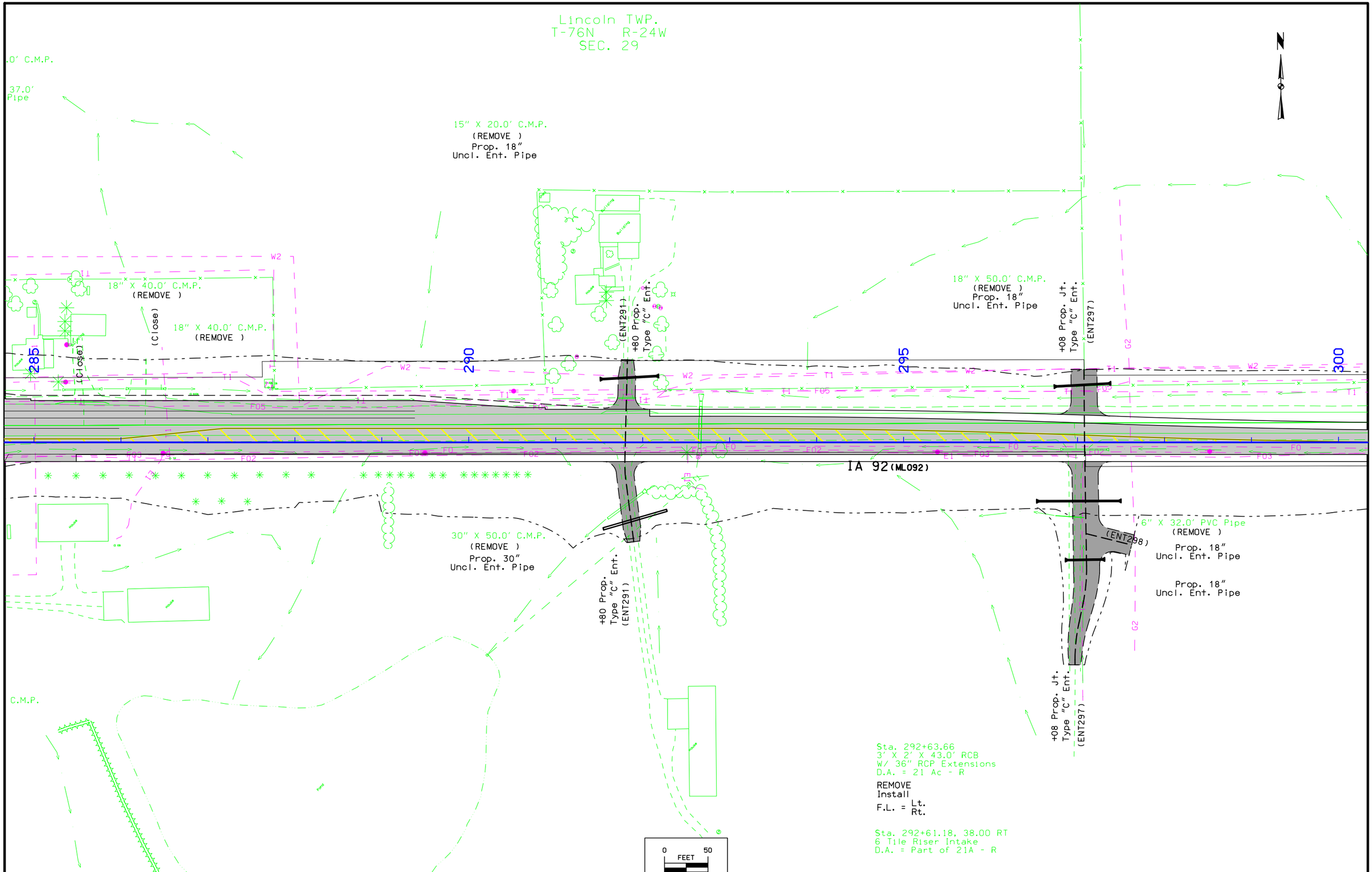

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11:17:04 AM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

(ENT291)
+1.1% -4.0% +4.0% +8.0% +2.68%
+00

(ENT297)
+1.0% -4.0% +4.0% -0.73%
+00
(ENT298)
-3.0% +0.73%
297+09.75

Existing Road
CL Profile

-1.00% Rt. D6
+00 Rt. 966.00
-5.00% Rt. Ditch Grade
+00 Rt. 961.00
-0.50% Rt. Ditch Grade
+00 Rt. 960.50
-0.50% Lt. Ditch Grade
+50 Lt. 964.25
+0.600%
+75 Lt. 961.55
+0.50% Rt. Ditch Grade
+00 Rt. 960.94
-3.00% Rt. Ditch Grade
+50 Rt. 961.19
+1.00% Rt. Ditch Grade
+20 Rt. 956.10
+70 Rt. 957.60
+4.90% Rt. Ditch Grade
VPI +00.000
Elv 967.50
K = 138
Len 360.00 ft
-1.20% Lt. Ditch Grade
+1.20% Lt. Ditch Grade
+2.000%
+80 Lt. 964.01
+0.78% Rt. Ditch Grade
+50 Rt. 961.52
+3.50% Lt. Ditch Grade
+00 Rt. 962.70
+50 Lt. 969.96
+0.50% Lt. Ditch Grade
+50 Lt. 970.46
+1.20% Lt. Ditch Grade
+2.30% Rt. Ditch Grade

Lt: Ditch Grade (5 ft wide) | Transition | Ditch Grade
Rt: Ditch Grade (5 ft wide) | No Ditch | Ditch Grade

ENGLISH	IOWA DOT	DESIGN TEAM	Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER	D.7

11:17:05 AM ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 29

Lincoln TWP.
T-76N R-24W
SEC. 28

Sta. 307+42.49
3' X 2' X 46.0' RCB
W/ 36" RCP Extensions
D.A. = 16 Ac - R

REMOVE
Install
F.L. = Lt.
Rt.

300 305 310 315

IA 92 (ML092)

15" X 20.0' C.M.P.
(REMOVE)
(Close)

15" X 20.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+31 Prop.
Type "C" Ent.
(ENT305)

POT STA 310+28.21 ML092
= POT STA 2310+28.21 SR90TH

90TH AVE (SR90TH)

(Close)

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER D.8

11:17:06 AM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

(ENT305)

+4.0%

+31

VPI +00.000
Elv 985.50
K = 247
Len 790.00 ft

+2.000%

-1.200%

+00 Rt.
976.50

+00 Rt.
978.50

+00 Rt.
975.90

Existing Road
CL Profile

+2.30% Rt. Ditch Grade

+1.00% Rt. Ditch Grade

-1.30% Rt. Ditch Grade

+1.20% Lt. Ditch Grade

+00 Lt.
977.06

-0.50% Lt.
Ditch Grade

+50 Lt.
976.31

-2.70% Lt. Ditch Grade

-3.80% Rt. Ditch Grade

+50 Lt.
968.21

+0.70% Lt. Ditch Grade

+00 Lt.
969.26

-1.200%

+0.800%

+00 Lt.
972.77

+1.17% Lt. Ditch Grade

+2.30% Rt. Ditch Grade

-0.50% Lt. Ditch Grade

-0.50% Rt. Ditch Grade

+50 Rt.
972.07

+00 Rt.
970.82

+20 Rt.
965.10

+0.90% Rt.
Ditch Grade

-0.50% Rt.
Ditch Grade

+75 Rt.
968.04

+00 Rt.
964.70

+00 Rt.
964.50

+25 Rt.
964.25

VPI +00.000
Elv 974.70
K = 140
Len 280.00 ft

Lt

Rt

Ditch Grade

Ditch Grade
Vari.

Ditch Grade

Side Road

Ditch Grade

981.02 981.28 981.52 981.74 981.93 982.09 982.23 982.34 982.43 982.49 982.53 982.54 982.52 982.48 982.42 982.33 982.21 982.07 981.91 981.72 981.50 981.26 980.99 980.70 980.40 980.10 979.80 979.50 979.20 978.90 978.60 978.30 978.00 977.70 977.40 977.10 976.80 976.50 976.21 975.96 975.75 975.59 975.47 975.40 975.37 975.39 975.45 975.56 975.71 975.90 976.10 976.30 976.50 976.70 976.90 977.10 977.30 977.50 977.70 977.90

300 +50 301 +50 302 +50 303 +50 304 +50 305 +50 306 +50 307 +50 308 +50 309 +50 310 +50 311 +50 312 +50 313 +50 314 +50 315

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.9

11:17:07 AM ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 28

Sta. 315+86.80
2' X 2' X 46.0' RCB
W/ 30" RCP Extensions
D.A. = 6 Ac - R

REMOVE
Install
F.L. = Lt. / Rt.

Sta. 329+73.63
2' X 2' X 47.0' RCB
W/ 30" Conc. Pipe Extension
D.A. = 8 Ac - F

REMOVE
Install
F.L. = Lt. / Rt.

12" X 20.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+55 Prop. Type "C" Ent. (ENT323)

315 320 325 330

W2 T1 F05 F0 F02 F03

IA 92 (ML092)

(ENT322)

+55 Prop. Jt. Type "C" Ent. (ENT323)

(Close)

18" X 48.0' C.M.P.
(REMOVE)

15" X 20.0' C.M.P.
(REMOVE)

15" X 16.0'
Conc. Pipe
(U.A.C.)

18" X 15.0' C.M.P.
(REMOVE)

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.10

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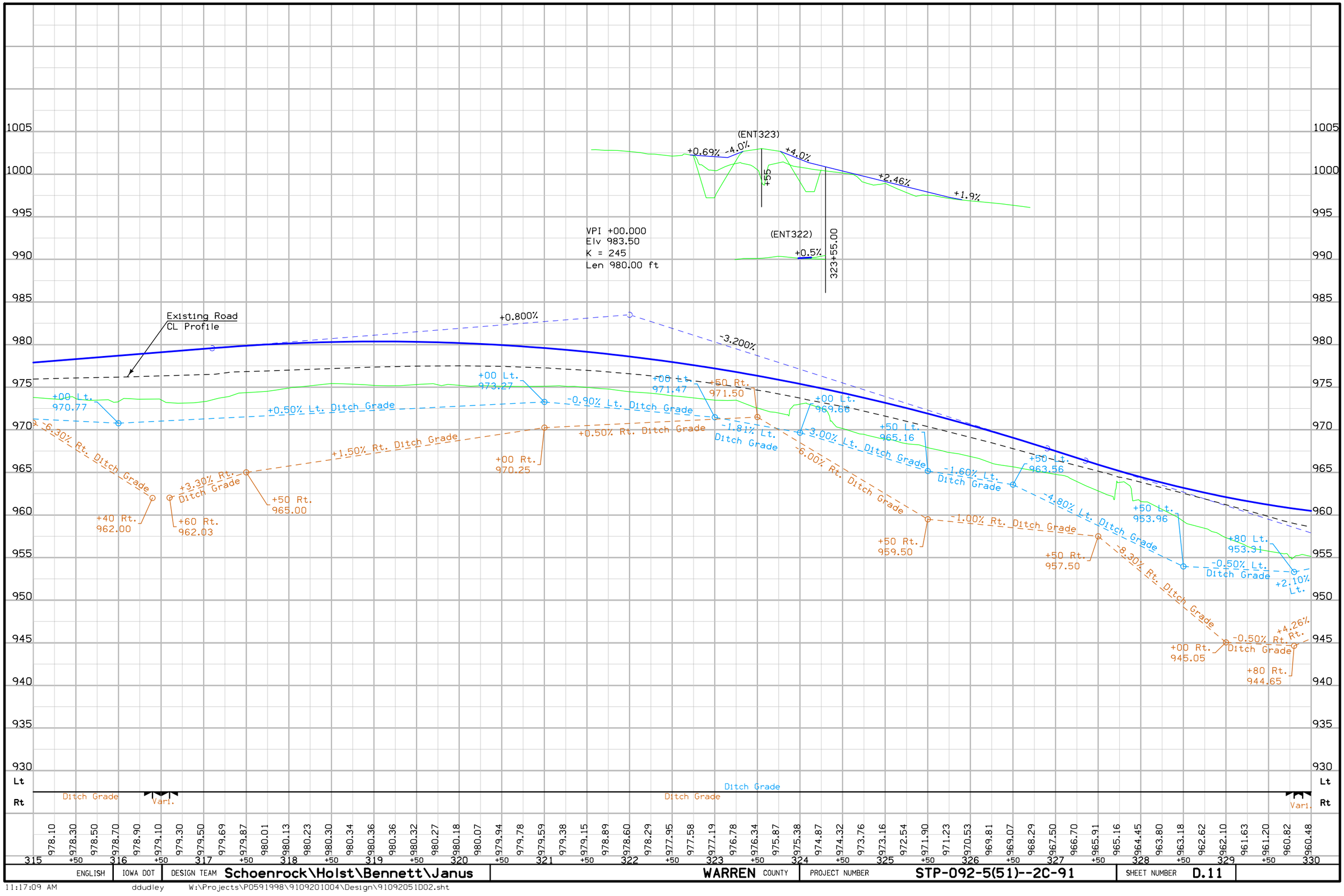

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.11

11:17:09 AM ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 28

Sta. 332+80.53
2' X 2' X 50.0' RCB
W/ 30" RCP Extensions
D.A. = 17 Ac - R

REMOVE
Install
F.L. = Lt.
Rt.

330
335
340
345

W2
T1
F05
F03
F02
F0
E1

IA 92 (ML092)

TS Sta 337+72.34
SC Sta 339+32.34
PI Sta 338+49.02
PI Sta 342+29.48
PI Sta 345+19.31

18" X 23.0'
C.M.P.
(REMOVE)

+15 Prop.
Type "C" Ent.
(ENT331)

+03 Prop.
Type "C" Ent.
(ENT341)

(Close)

Prop. 36"
Uncl. Ent. Pipe

18" X 57.0' C.M.P.
(REMOVE)
12" X 24.0' C.M.P.
(REMOVE)

Sta. 341+78.56
2' X 2' X 46.0' RCB
W/ 30" RCP Extensions
D.A. = 4 Ac - F

REMOVE
Install
F.L. = Lt.
Rt.

0 FEET 50

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.12

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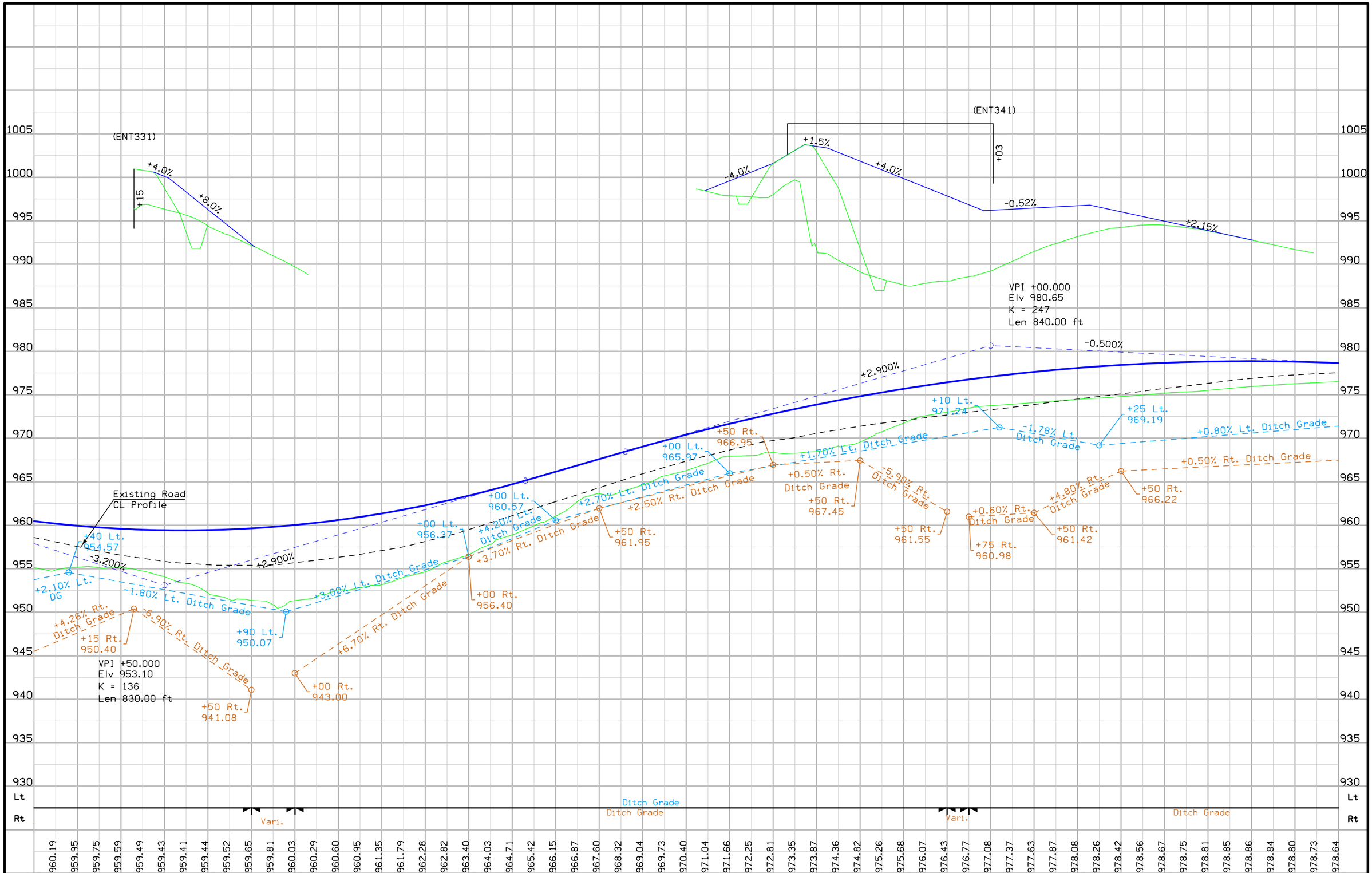

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.13

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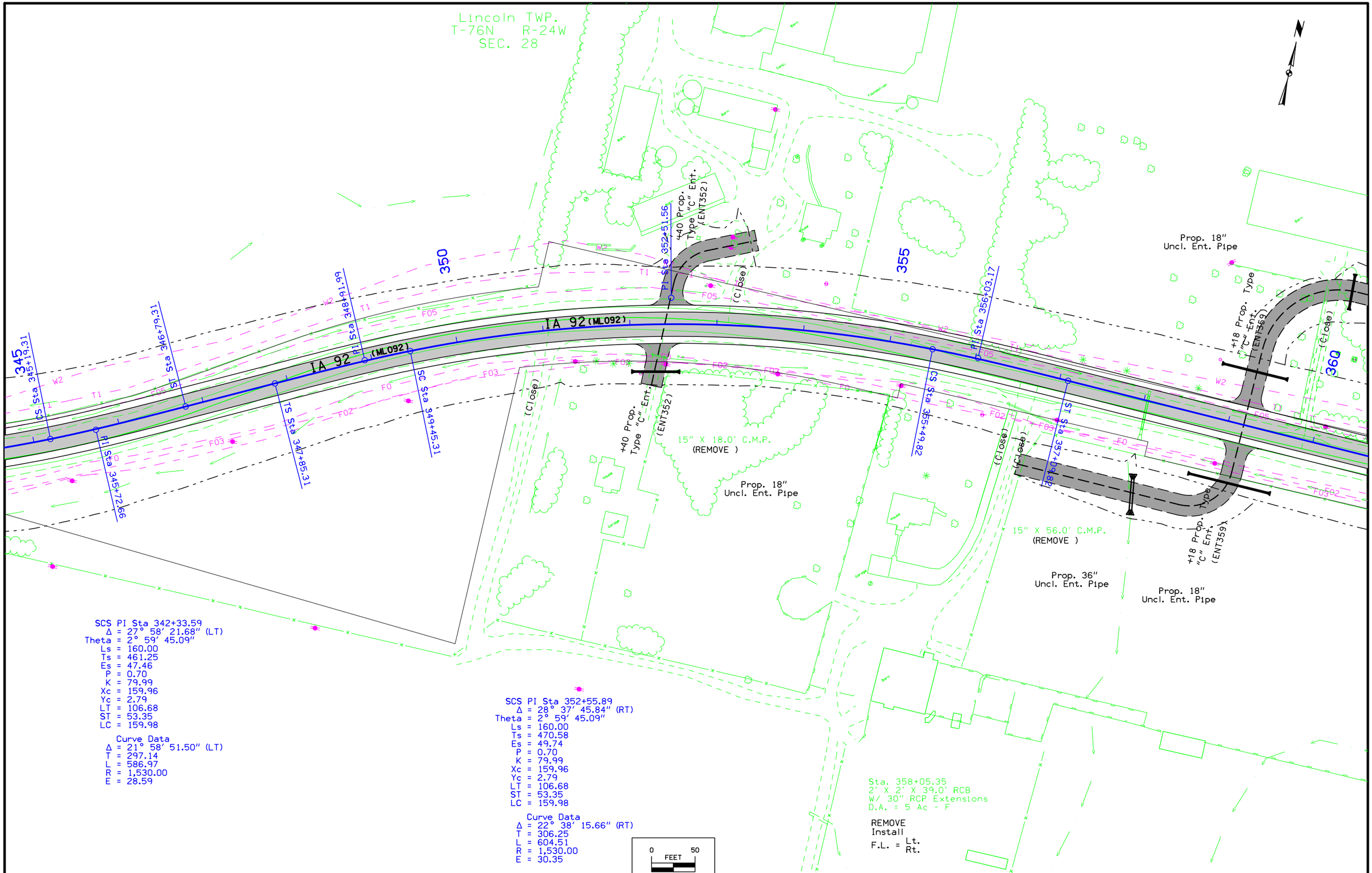

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.14

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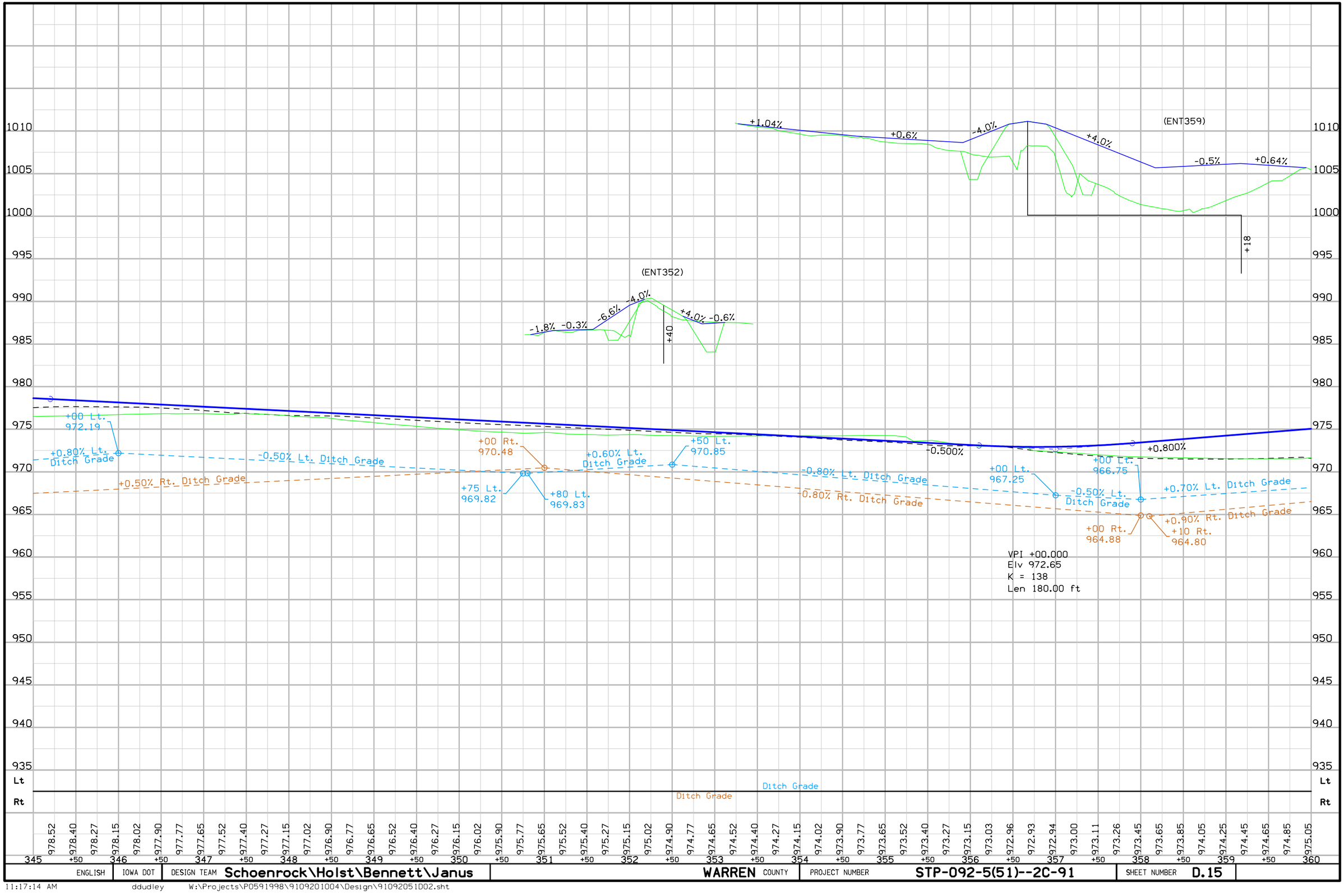

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.15

Lincoln TWP.
T-76N R-24W
SEC. 28

Lincoln TWP.
T-76N R-24W
SEC. 27

Prop. 18"
Uncl. Ent. Pipe

15" X 28.0' C.M.P.
(REMOVE)

18" X 20.0' C.M.P.
(REMOVE)

15" X 87.0' C.M.P.
(REMOVE)

(Close)

(Close)

+37' Prop.
Type "B" Ent.
(ENT365)

Prop. 18"
Uncl. Ent. Pipe

360

365

370

375

W2

T1

FO5

18" X 64.0' C.M.P.

IA 92 (ML092)

FO

FO2

FO3

18" X 46.0' C.M.P.

(Close)

18" X 64.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+37 Prop.
Type "C" Ent.
(ENT365)

0 50
FEET

C ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.16	

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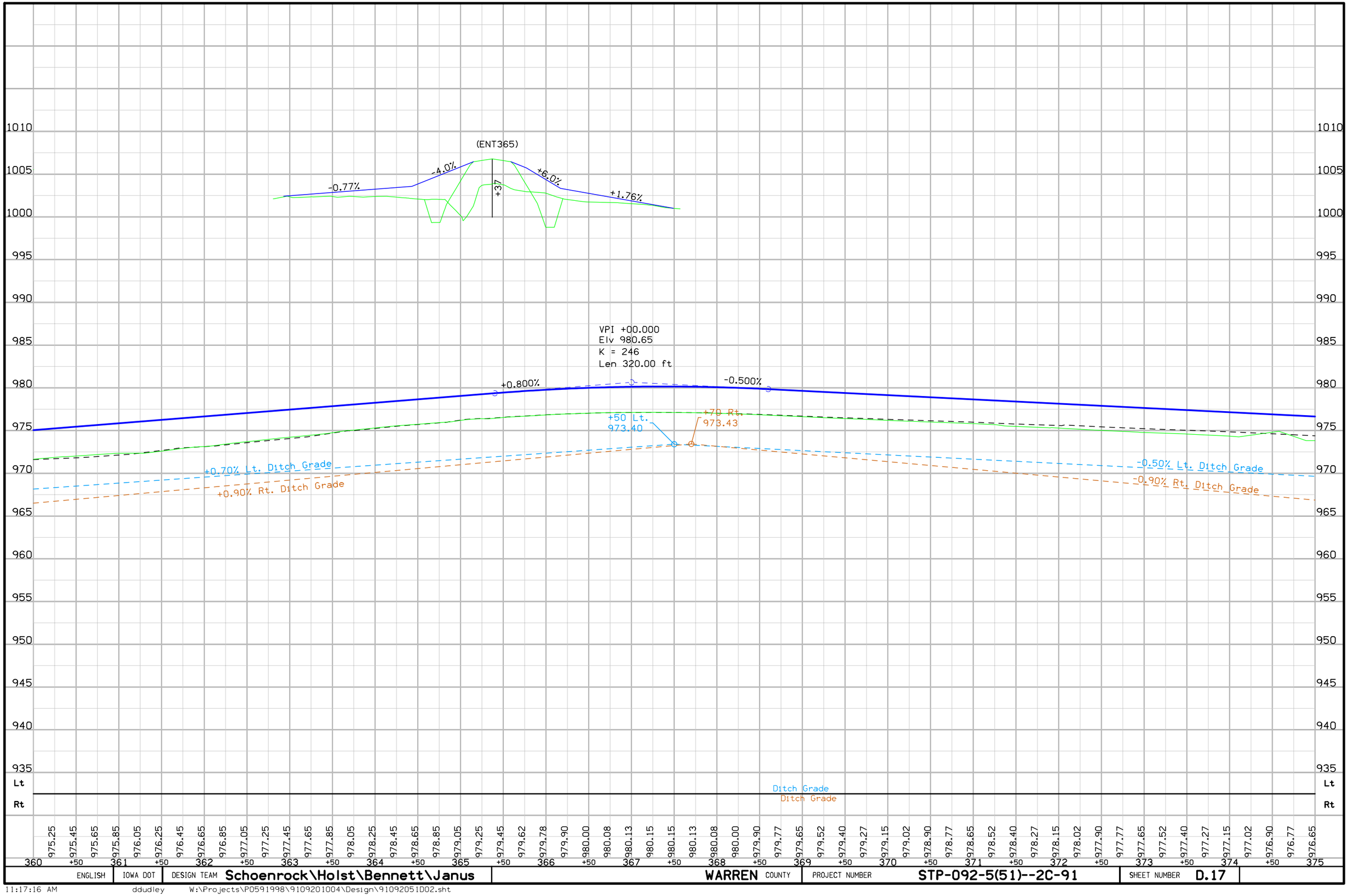

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.17

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Lincoln TWP.
T-76N R-24W
SEC. 27

N

15" X 60.0' Conc. Pipe

18" X 32.0' Conc. Pipe/C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

15" X 37.0' C.M.P.
(REMOVE)

+45 Prop. Type "C" Ent. (ENT375)

(Close)

18" X 56.0' Conc. Pipe
(REMOVE)

375 380 385 390

W2 T1 F05 E2 E1 F04

IA 92 (ML092)

F0 F02 F03

18" X 41.0' C.M.P.
(REMOVE)

(Close)

18" X 32.0' Conc. Pipe
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+45 Prop. Type "C" Ent. (ENT375)

15" X 24.0' C.M.P.
(REMOVE)

15" X 12.0' C.M.P.
(REMOVE)

Sta. 379+69.09
2' X 2' X 42.0' RCB
W/ 30" RCP Extensions
D.A. = 4 Ac - R

REMOVE
Install
F.L. = Lt. Rt.

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.18

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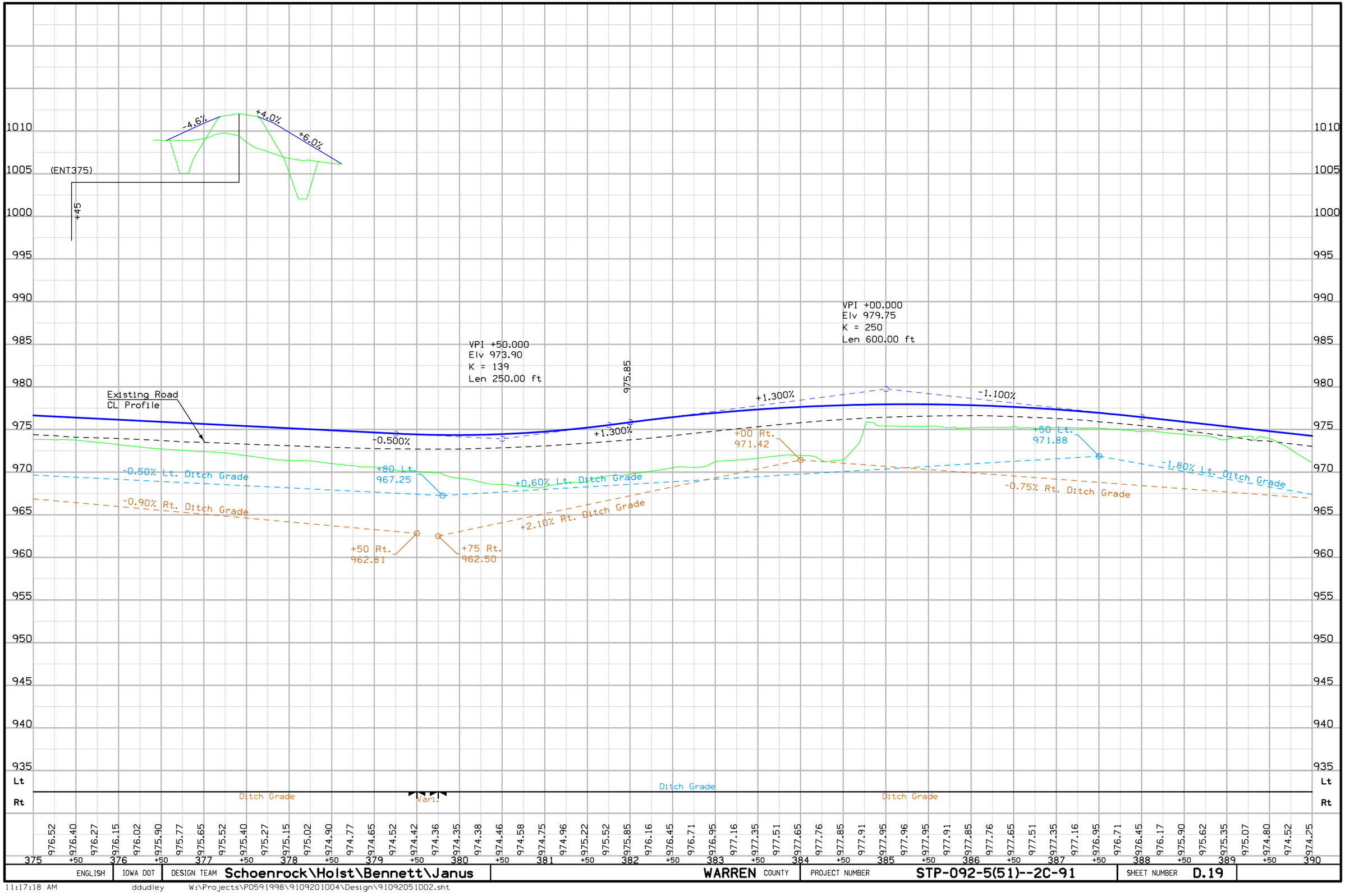

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.19

11:17:18 AM ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 27

Curve Data
Δ = 0° 19' 35.74" (RT)
T = 34.20
L = 68.40
R = 12,000.00
E = 0.05

R-63 (SR63N)

PI Sta 391+01.53

PC Sta 390+67.33

PT Sta 391+35.73

R-63 (SR635)

15" X 43.0' C.M.P.

15" X 30.0' Conc. Pipe (Close)

+16.98 Prop. Type "B" Ent.

IA 92 (ML092)

15" X 18.0' Conc. Pipe (REMOVE)

(Close)

(Close)

15" X 28.0' C.M.P.

Sta. 390+78.55
2' X 2' X 132.0' RCB W/ 30" RCP Extensions
D.A. = 7 Ac - R

Sta. 391+29.59, 61.89 Lt.
24" X 60.0' Conc Pipe
D.A. = 3 Ac - R

15" X 56.0' C.M.P.

Sta. 395+43.91
2' X 2' X 43.0' RCB W/ 30" RCP Extensions
D.A. = 9 Ac - R

390 395 400 405

0 50 FEET

C ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.20	

11:17:19 AM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

1010
1005
1000
995
990
985
980
975
970
965
960
955
950
945
940
935

3.23%

+16.98

VPI +00.000
Elv 975.49
K = 117
Len 150.00 ft

-1.100%

+0.640%

+0.640%

-0.640%

+40 Lt.
966.65

+40 Rt.
966.62

VPI +70.000
Elv 970.18
K = 86
Len 150.00 ft

-0.30% Lt.
Ditch Grade

+75 Lt.
968.90

+25 Lt.
968.75

Lt

Rt

973.97 973.70 973.42 973.15 972.87 972.60 972.32 972.05 971.77 971.50 971.22 970.95 970.73 970.57 970.50 970.49 970.55 970.69 970.85 971.01 971.17 971.33 971.49 971.65 971.81 971.97 972.13 972.29 972.45 972.61 972.77 972.93 973.09 973.25 973.41 973.57 973.73 973.89 974.05 974.21 974.37 974.53 974.69 974.85 975.01 975.14 975.22 975.25 975.22 975.14 975.01 974.85 974.69 974.53 974.37 974.21 974.05 973.89 973.73 973.57

390 +50 391 +50 392 +50 393 +50 394 +50 395 +50 396 +50 397 +50 398 +50 399 +50 400 +50 401 +50 402 +50 403 +50 404 +50 405

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.21

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Lincoln TWP.
T-76N R-24W
SEC. 27

Sta. 417+03.73, 37.07 Lt.
22" X 14" X 60.0' Arch Conc Pipe
D.A. = 4 Ac - r
(Remove)

Curve Data
Δ = 0° 25' 37.45" (LT)
= 44.72
= 89.45
= 12,000.00
= 0.08

15" X 24.0' C.M.P.
(Remove)

(Close)
(Remove)
15" X 48.0' C.M.P.
Remove

Y ST (SR110N)

PC Sta 416+90.59

PT Sta 417+80.03

IA 92 (ML092)

Y ST (SR110S)

Sta. 412+66.92, 247.41 RT
6 Tile Riser Intake
D.A. = 5A - R
(U.A.C.)

Sta. 414+54.06, 307.09 RT
6 Tile Riser Intake
D.A. = 2A - R
(U.A.C.)

Sta. 417+30.31, 350.36 Rt
30" X 44.0' CMP
D.A. = 16 Ac - R
(Remove)

0 FEET 50

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.22

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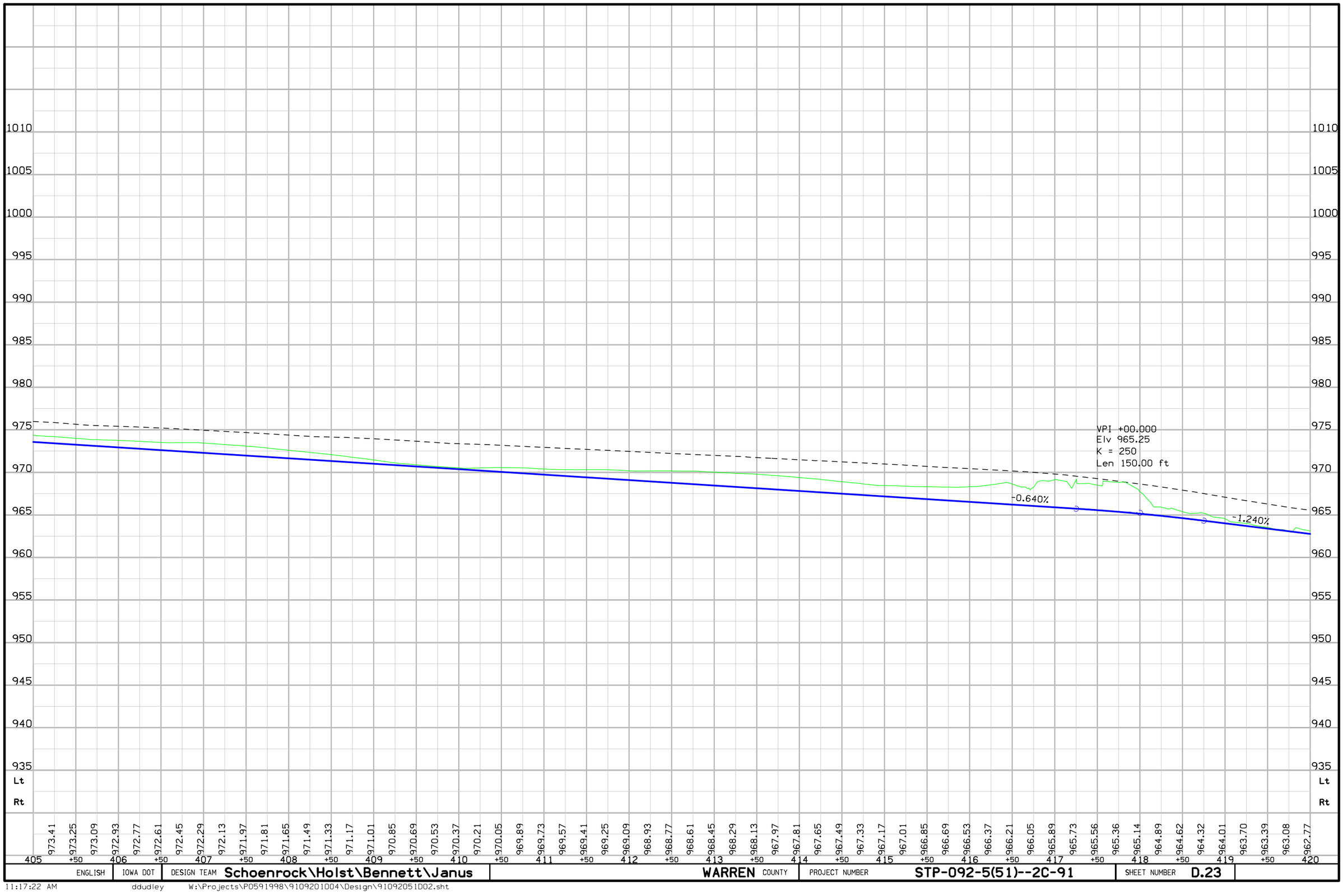

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.23

Lincoln TWP.
T-76N R-24W
SEC. 26

Sta. 426+73.61.10
2' X 2' X 44.0' RCB W/ 30" Conc. Pipe Extensions
D.A. = 3 Ac - F-R
(Remove)

18" X 101.0' C.M.P.
(Remove)

18" X 64.0' C.M.P.
(Remove)

18" X 66.0' C.M.P.
(Remove)

18" X 54.0' C.M.P.
(Remove)

18" X 69.0' C.M.P.

+11.51 Prop. Type "B" Ent.

+99.40 Prop. Type "B" Ent.

+53.90 Prop. Type "B" Ent.

+54.16 Prop. Type "B" Ent.

+96.41 Prop. Type "B" Ent.

+46.06 Prop. Type "B" Ent.

+78.41 Prop. Type "B" Ent.

+47.85 Prop. Type "B" Ent.

IA 92 (ML092)

36" X 108.0' Conc. Pipe
(Remove)

6" X 78.0' PVC. Pipe

18" X 78.0' C.M.P.

Sta. 422+42.59
2' X 2' X 42.0' RCB W/ 30" RCP Extensions
D.A. = 8 Ac - F-R
(Remove)

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.24

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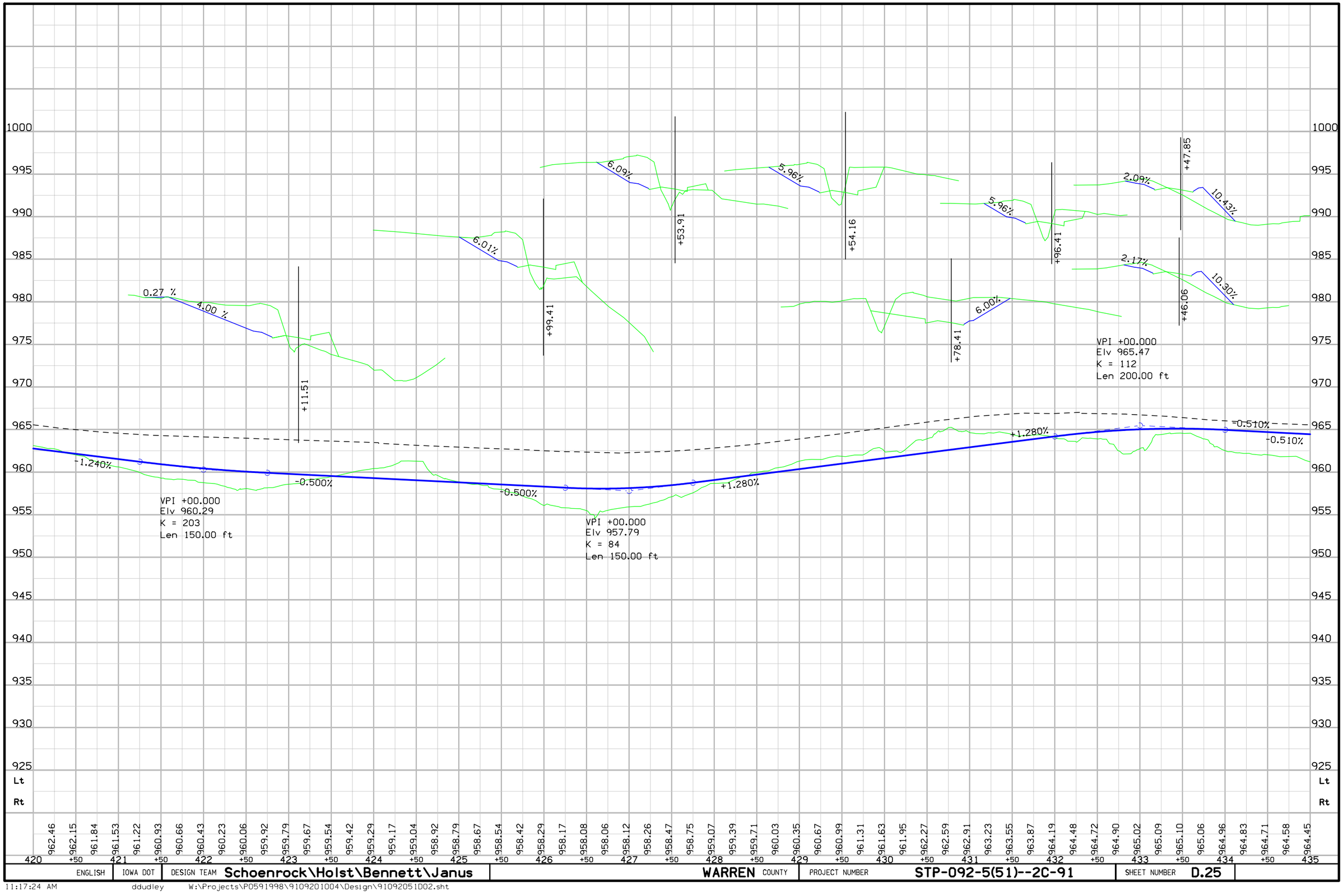

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.25

11:17:24 AM ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

Lincoln TWP.
T-76N R-24W
SEC. 26

N

SPRUCE ST

R ST

IA 92 (ML092)

435 440 445 450

PC Sta 439+11.62

PRC Sta 440+30.11

PT Sta 441+31.12

PI Sta 439+21.21

PT Sta 442+31.59

PC Sta 447+70.70

Sta. 443+18.01
End Full Width Paving,
Begin Widening

+08.06 Prop. Type "B" Ent.

+48.56 Prop. Type "B" Ent.

+23.75 Prop. Type "B" Ent.

+56.51 Prop. Type "B" Ent.

+17.01 Prop. Type "B" Ent.

+42.01 Prop. Type "B" Ent.

+48.51 Prop. Type "B" Ent.

+68.44 Prop. Type "B" Ent.

+54.51 Prop. Type "B" Ent.

15" X 36.0' Conc. Pipe

24" X 41.0' Plastic Pipe

18" X 85.0' C.M.P.

12" X 48.0' C.M.P.

18" X 46.0' C.M.P.

24" X 121.0' Conc. Pipe

24" X 67.0' C.M.P. (Remove)

24" X 71.0' C.M.P. (Remove)

24" X 60.0' C.M.P. (Remove)

Curve Data
Δ = 11° 07' 40.08" (LT)
T = 109.59
L = 218.49
R = 1,125.00
E = 5.33

Curve Data
Δ = 10° 15' 40.29" (RT)
T = 101.01
L = 201.48
R = 1,125.00
E = 4.53

Sta. 436+45.20
2' X 2' X 39.0' RCB W/ 30" RCP Extensions
D.A. = 6 Ac - F-R

0 50
FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.26

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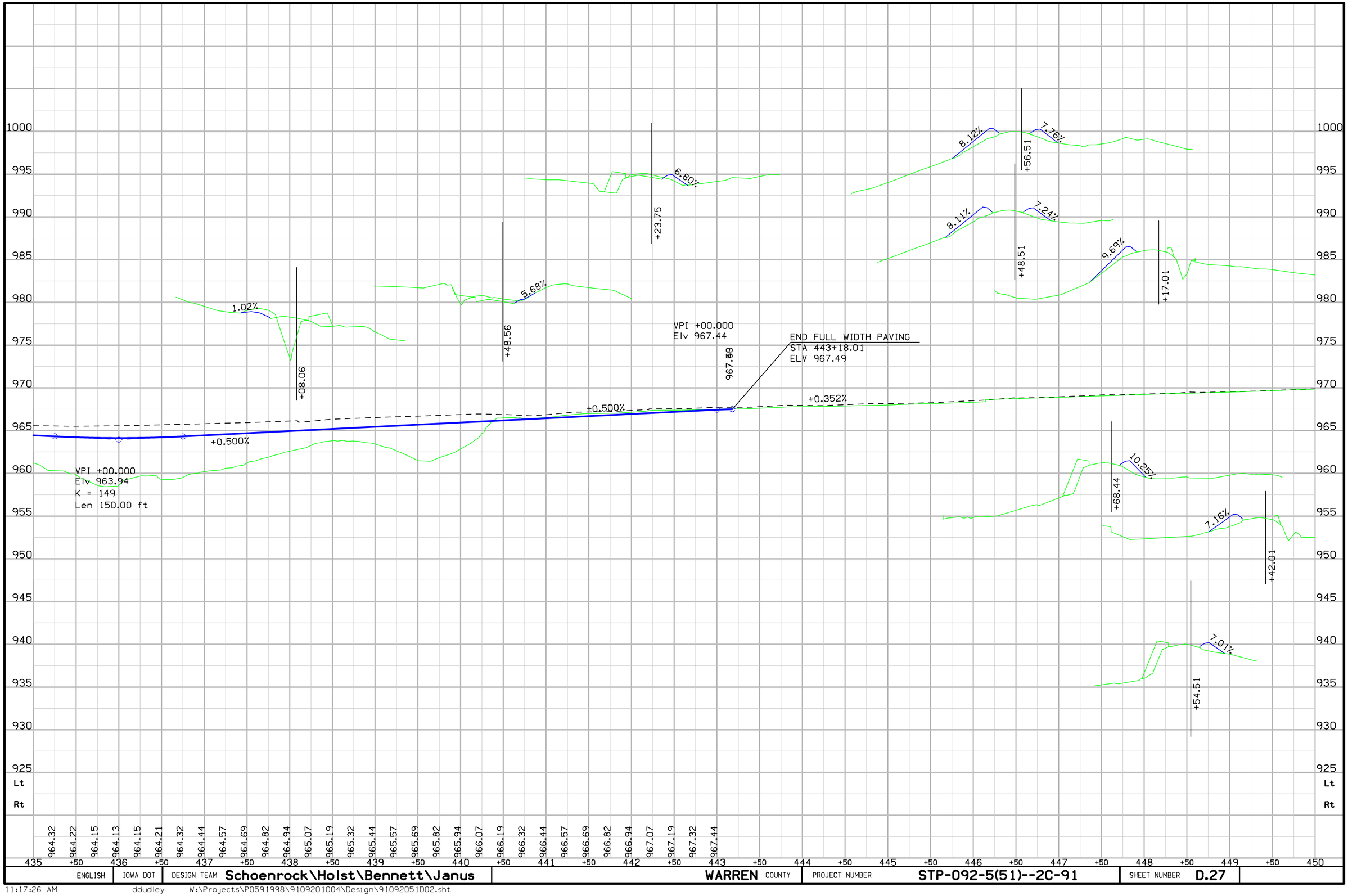

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.27

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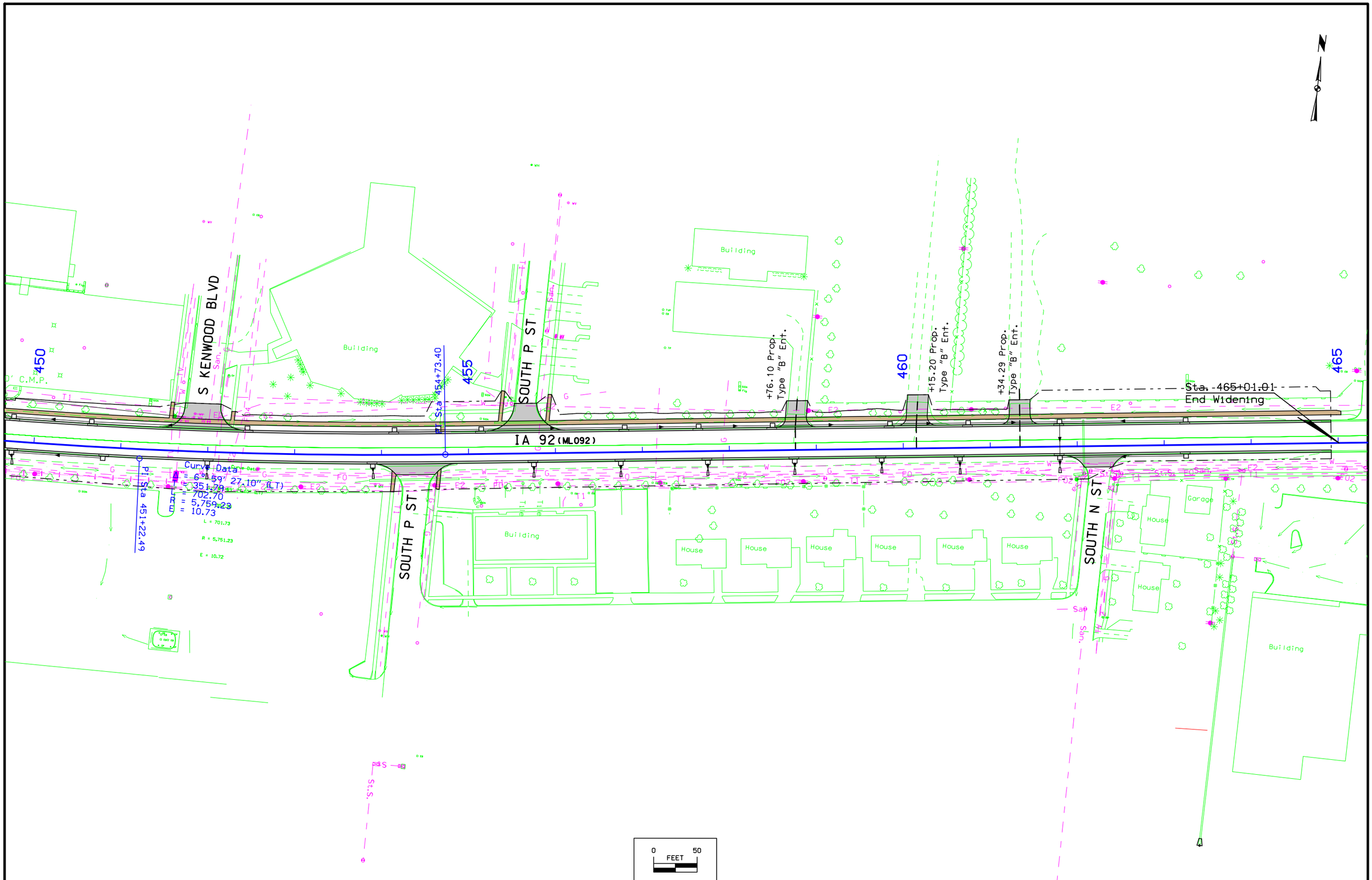

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.28

11:17:27 AM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051D02.sht

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER D.29

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Lincoln TWP.
T-76N R-24W
SEC. 30

Lincoln TWP.
T-76N R-24W
SEC. 29

POT STA 1258+87.00 SRKENNEDY
= POC STA 258+87.00 ML092

POT Sta 1256+05.14

KENNEDY ST.
(SRKENNEDY)

(U.A.C.)

Sta. 1257+45.00
Begin Construction

+10 Prop. Type "C" Ent. (ENT1257)

(Close)

+87 Prop. Jt. Type "C" Ent.

18" X 45.0' C.M.P.

18" X 24.0' C.M.P.

18" X 96.0' C.M.P. 18" X 26.0' C.M.P.

15" X 49.0' C.M.P.

House

APPROX. SEC. LINE

IA 92 (360th)

0 FEET 50

KENNEDY ST

VPI +15.000
Elv 952.29
K = 98
Len 90ft
DS 30 mph

BEGIN CONSTRUCTION
STA 1257+45.00
ELV 951.60

END CONSTRUCTION
STA 1258+72.80
ELV 953.38

+0.980%
+1.900%
-1.20% Rt. Ditch Grade
+30 Rt. 948.46
+10 Rt. 949.90
-3.60% Lt. Ditch Grade
+45 Lt. 948.90
+15 Lt. 946.38
+1.5%
-3.0%
+1.5%
-3.0%
+8.0%
+10

Ditch Grade
Ditch Grade

960 955 950 945 940 935 930
Lt
Rt

951.65 951.90 952.19 952.54 952.96 953.36

1257 1258

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER E.1	

11:16:22 AM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051E01.sht

Lincoln TWP.
T-76N R-24W
SEC. 29

PI STA 1283+73.24 SR57S
= POT STA 283+73.24 ML092

PI STA 1283+68.17 SR57N
= POT STA 283+68.17 ML092

Sta. 1280+60.00
Begin Construction

Sta. 1386+06.00
End Construction

1280

1385 (Close)

1390

15" X 48.0'
C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+92 Prop.
Type "C" Ent.
(ENT1281)

15" X 28.0'
C.M.P.
(REMOVE)

R-57 (SR57S)

R-57 (SR57N)

IA 92 (ML092)

18" X 57.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+92 Prop.
Type "C" Ent.
(ENT1281)

+72 Prop.
Type "C" Ent.
(ENT1285)

15" X 37.0'
Conc. Pipe
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+92 Prop.
Type "C" Ent.
(ENT1286)

15" X 36.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

Sta. 283+86, 712.79 Lt.
2' X 2' X 71.0' RCB
D.A. = 16 Ac - R
(U.A.C.)

Sta. 283+94.88, 499.59 Lt.
24" X 69.0' Conc Pipe
D.A. = 4 Ac - R
(U.A.C.)

0 FEET 50

R-57

VPI +90.000
Elv 971.81
K = 67
Len 90.00 ft

VPI +06.170
Elv 972.52

VPI +80.000
Elv 971.04
K = 114
Len 90.00 ft

VPI +35.000
Elv 969.17
K = 83
Len 210.00 ft

BEGIN CONSTRUCTION
STA 1280+60.00
ELV 965.28

END CONSTRUCTION
STA 1386+06.00
ELV 969.17

+2.840%
+1.500%
-1.500%
-2.000%
-1.210%
-3.740%

+00 Lt.
962.30
+3.40% Lt. DG
+2.60% Lt. Ditch Grade

+80 Lt.
966.98
+80 Rt.
966.14

+60 Lt.
960.94
+3.20% Rt. DG
+4.30% Rt. Ditch Grade

+00 Rt.
958.40
+60 Rt.
957.12

+50 Rt.
967.48
+65 Lt.
967.02
-2.60% Rt. Ditch Grade
-4.20% Lt. Ditch Grade

+06 Rt.
963.42
+06 Lt.
961.10

963.00

-4.6% +4.0% -4.0% -4.65%
+92

-4.0% -8.0%
+72

-4.0% -10.0%
+92

Ditch Grade
Ditch Grade

Ditch Grade
Ditch Grade

975 970 965 960 955 950 945

Lt
Rt

965.70 966.41 967.12 967.83 968.54 969.25 969.96 970.67 971.32 971.87 972.33 972.71 972.61 972.14 971.65 971.21 970.83 970.50 970.17 969.77 969.30 968.75 968.12 967.42 966.64 965.79 964.87 963.93 963.00

1276 1277 1278 1279 1280 1281 1282 1283 1384 1385 1386

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER E.2

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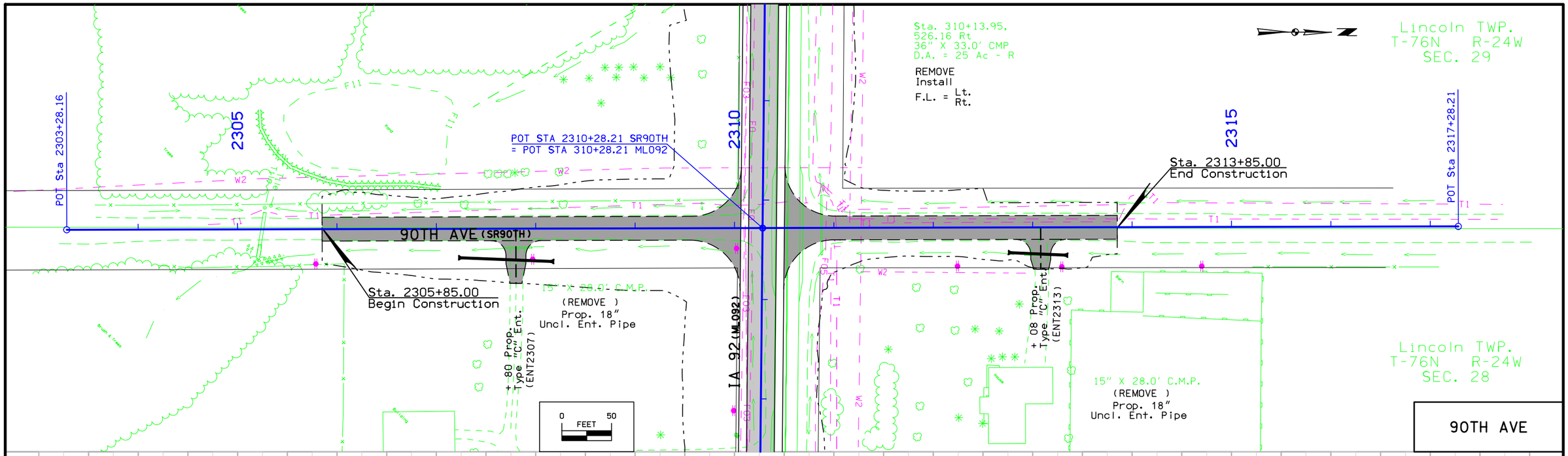
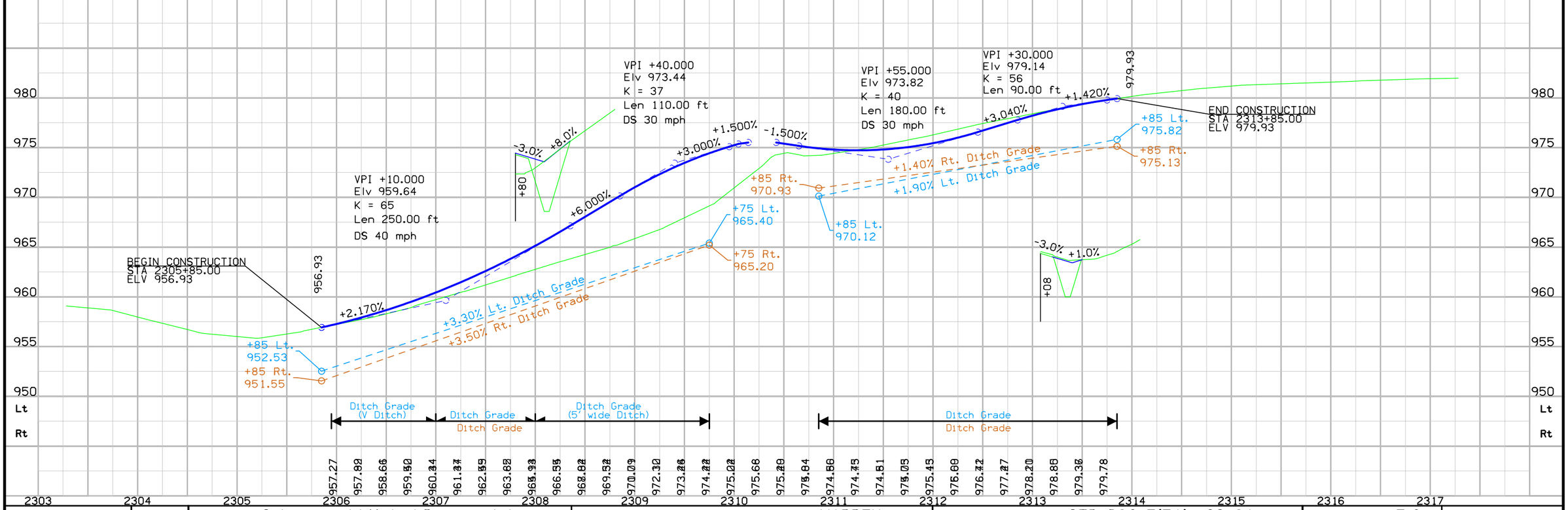
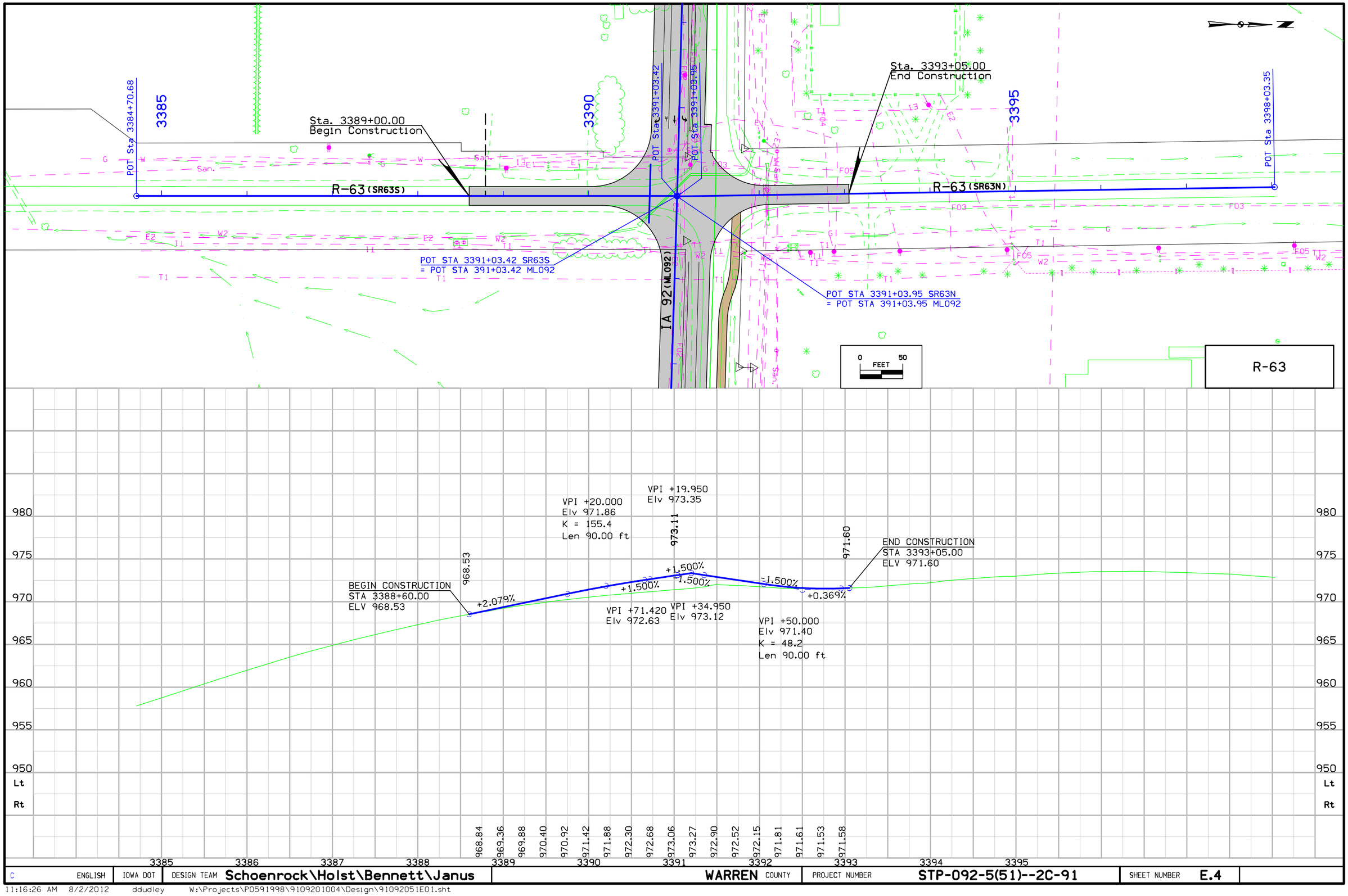


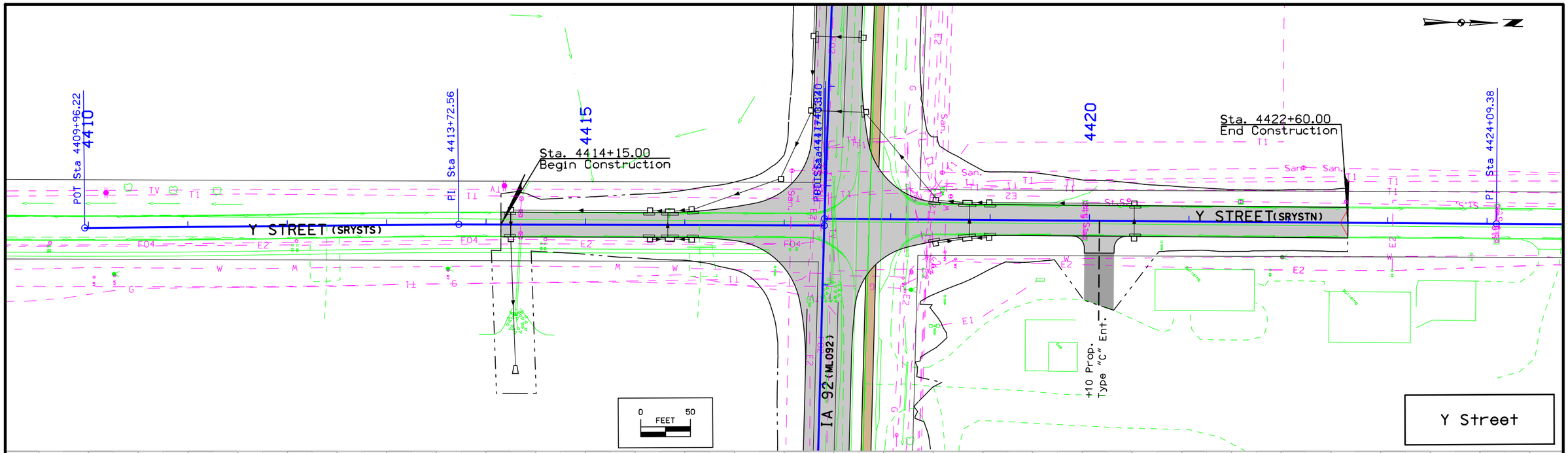


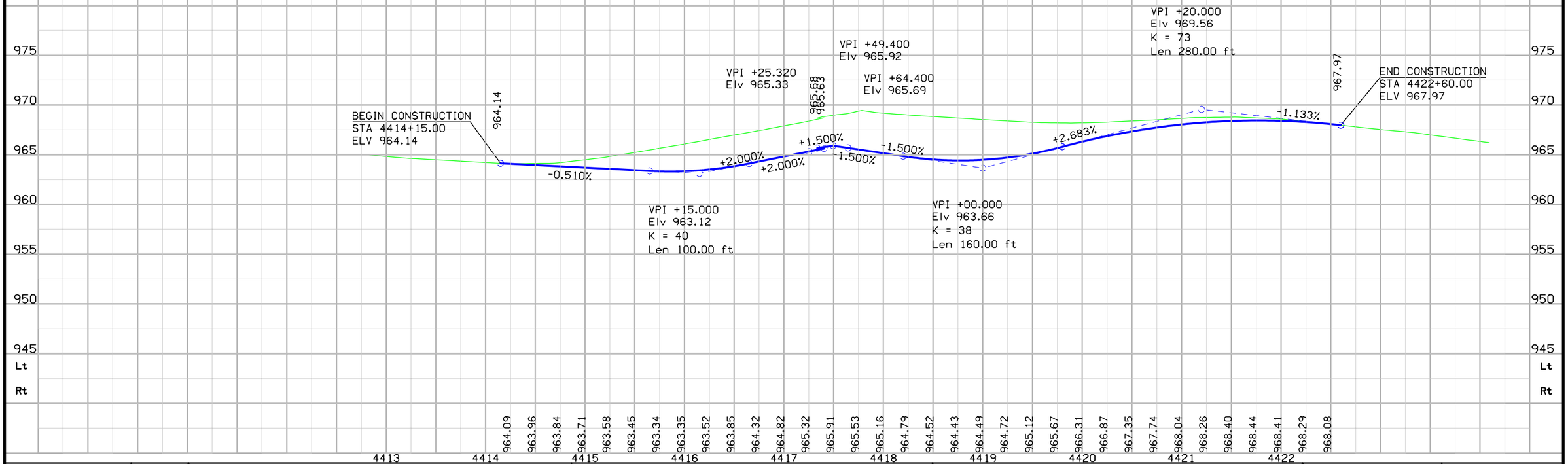
C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER E.3	

11:16:25 AM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051E01.sht



C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER E.4





C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER E.5

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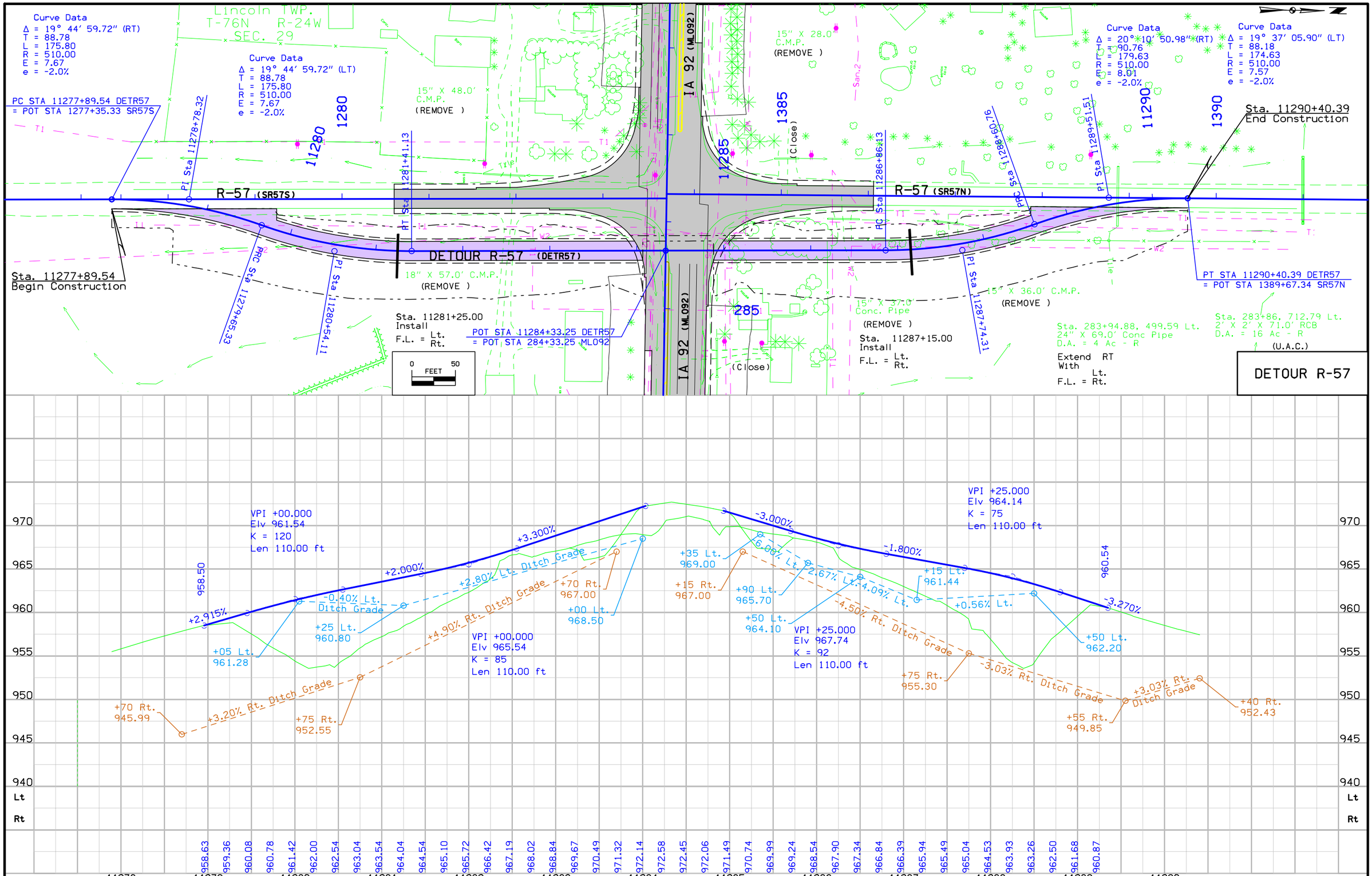

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER F.1

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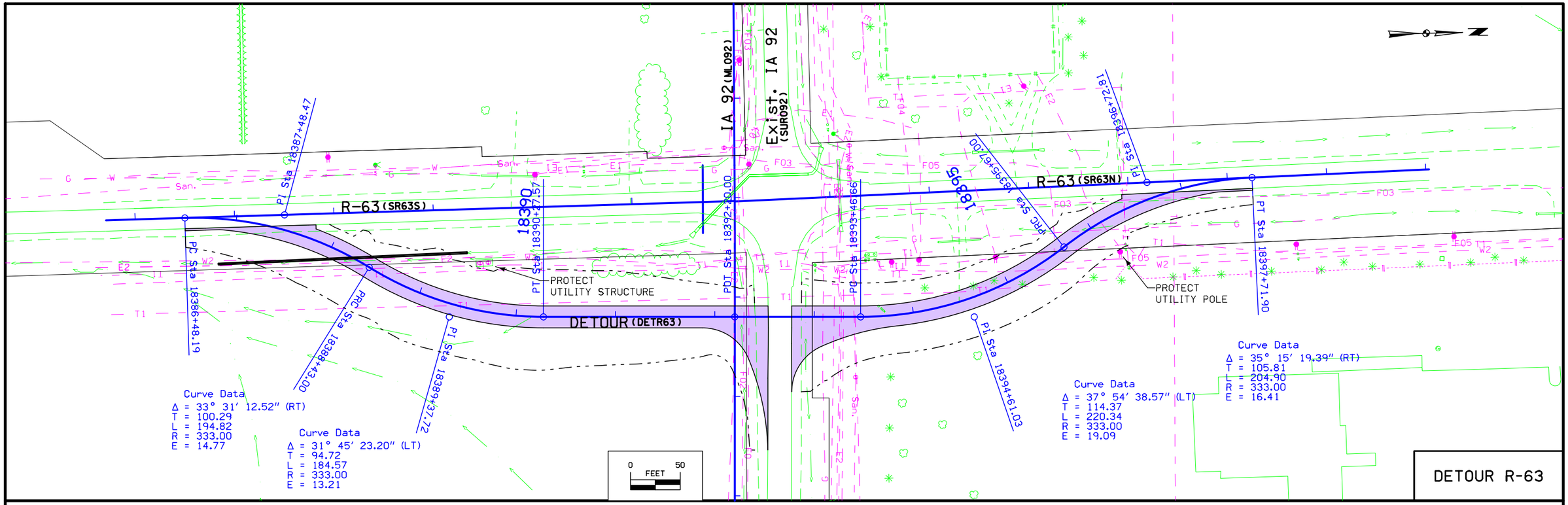

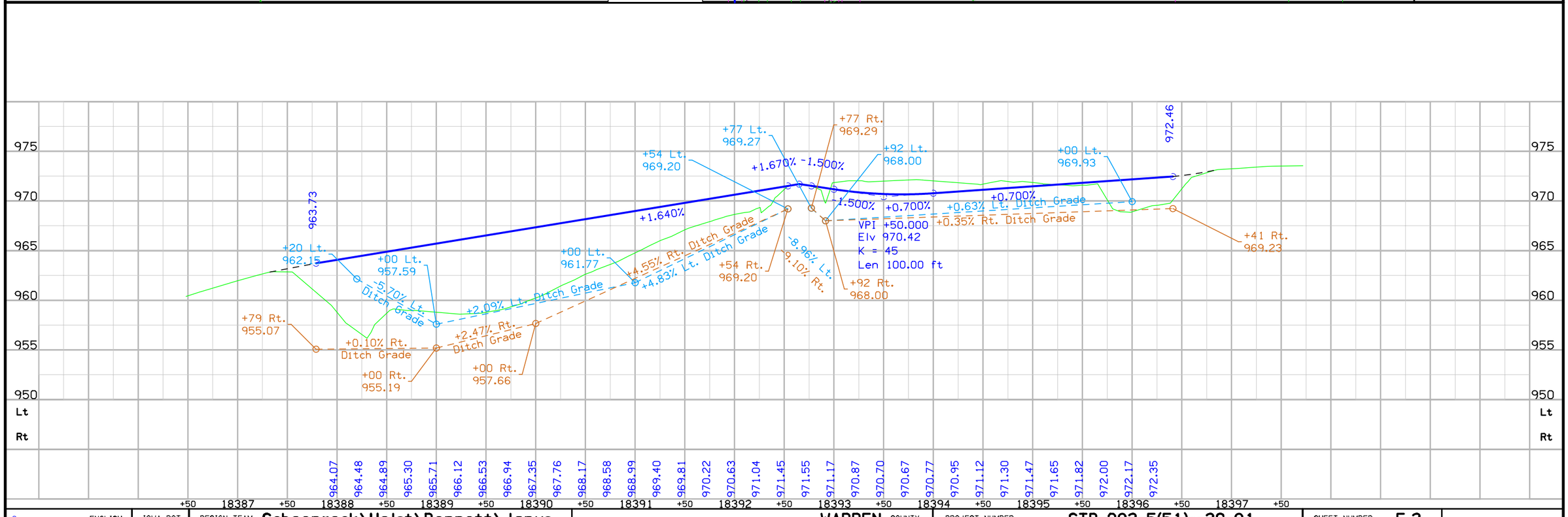

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER F.2	

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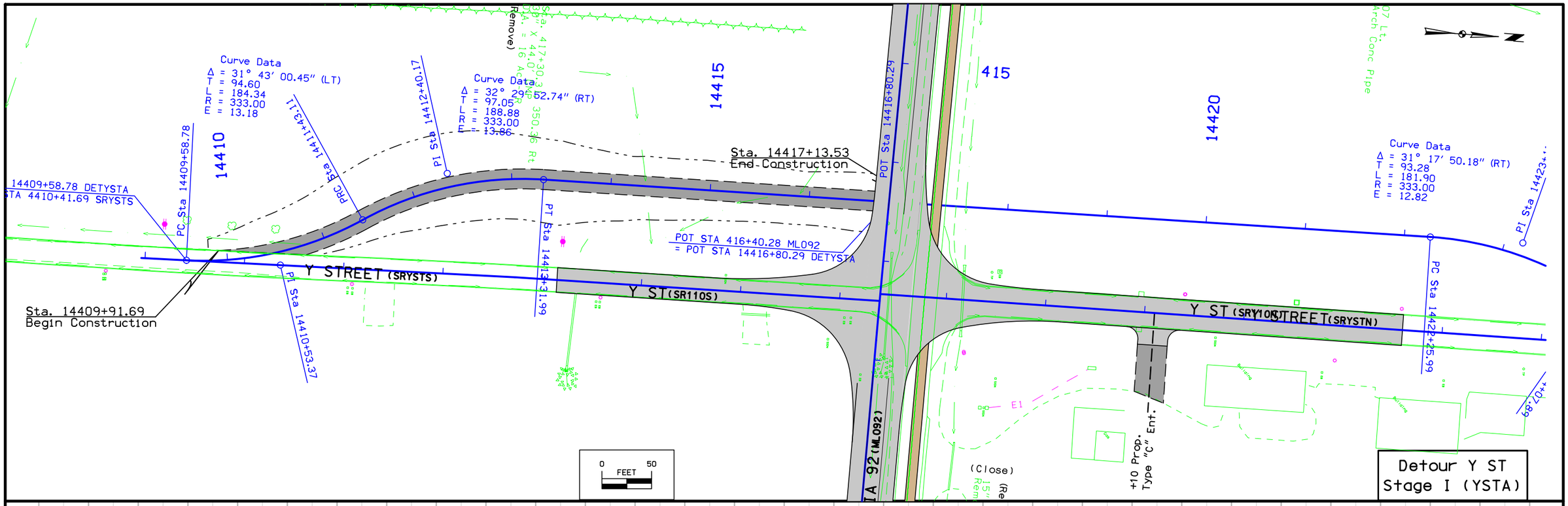

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER F.3	

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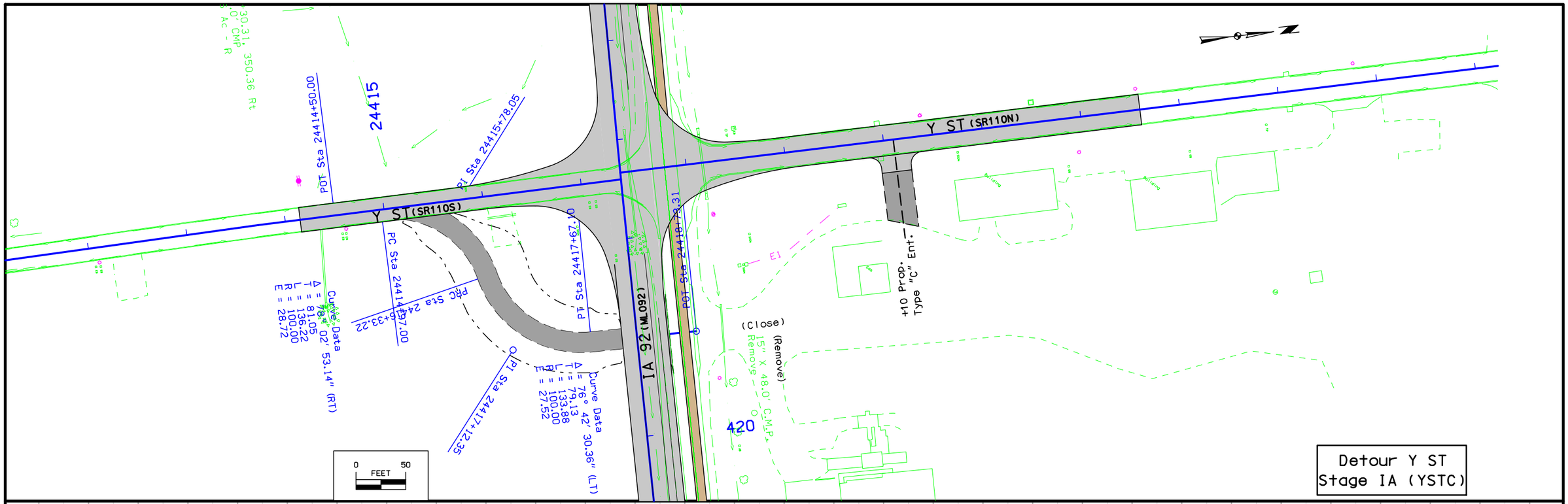

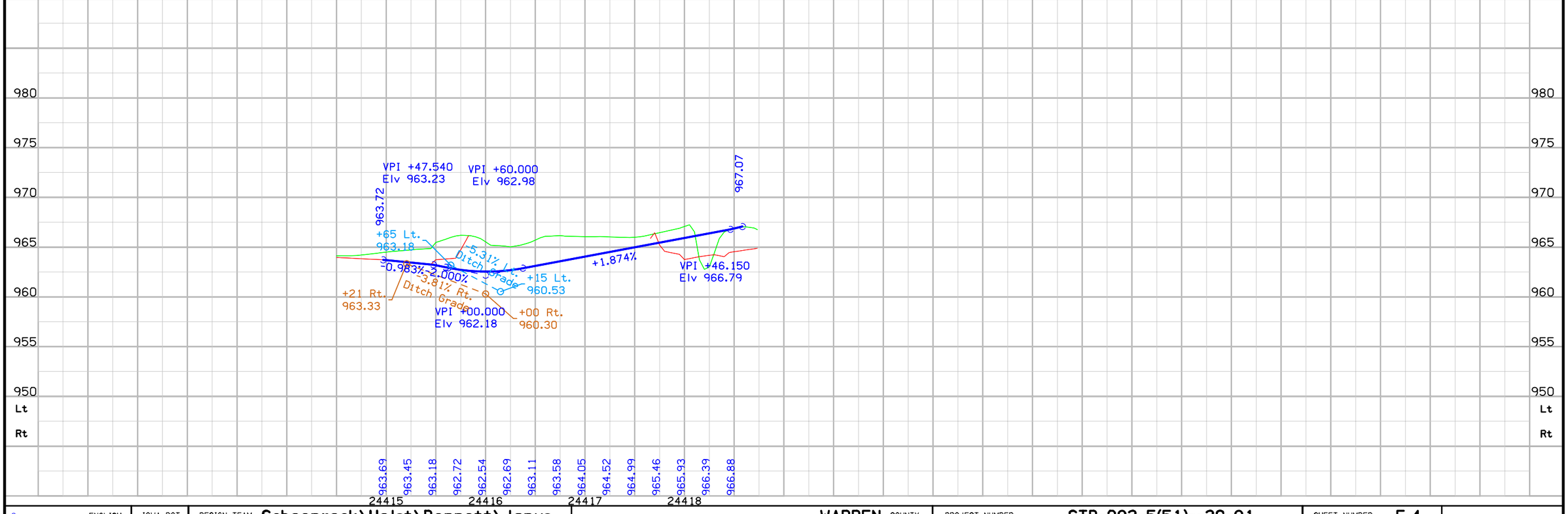

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER F.4	

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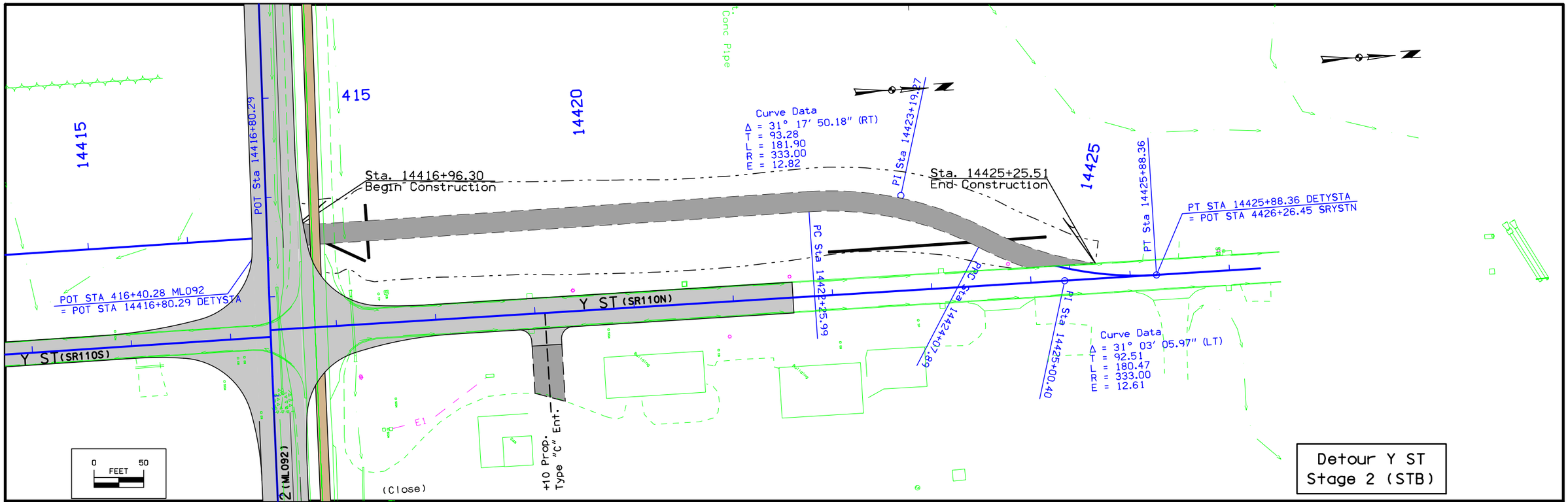

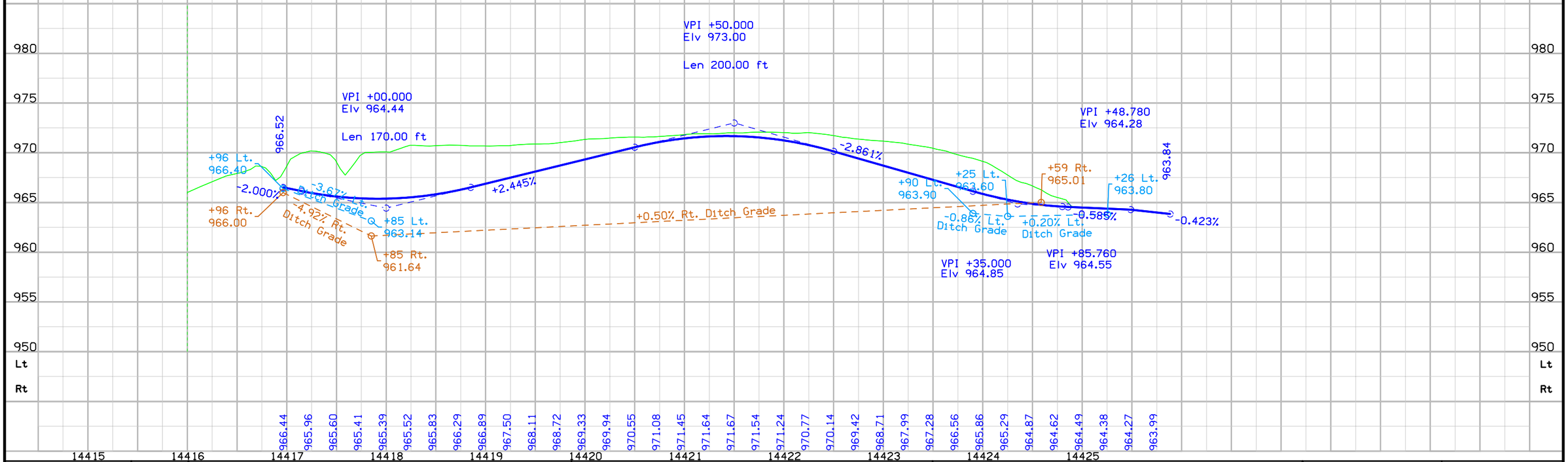

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER F.5	

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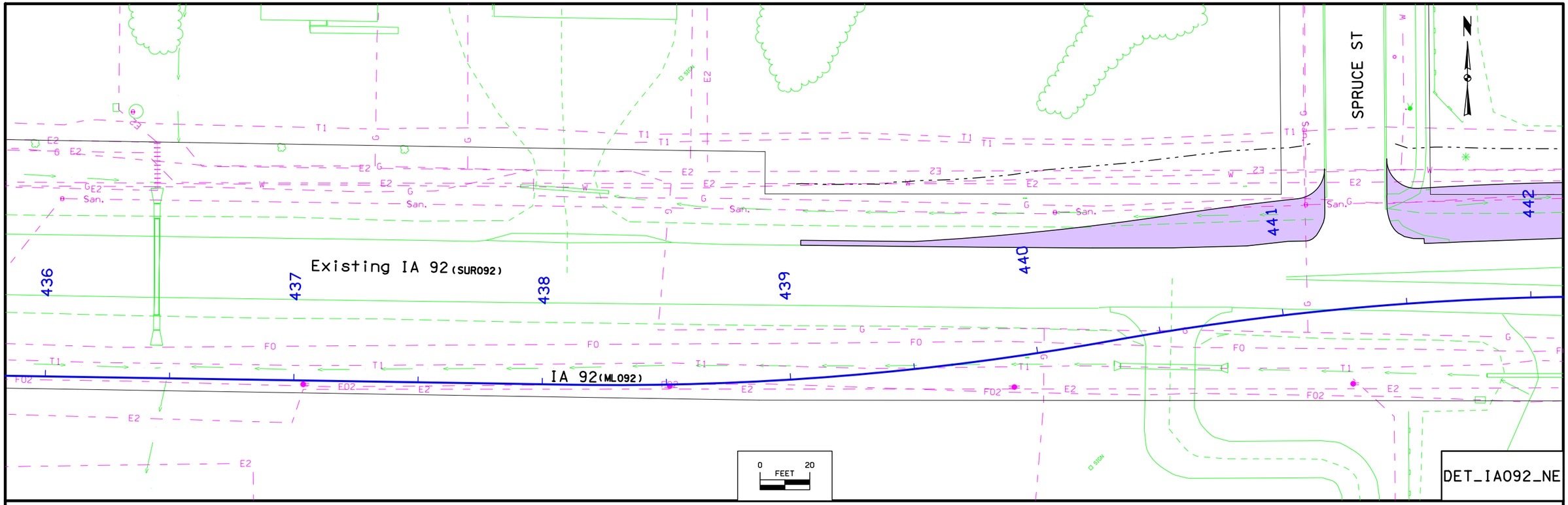

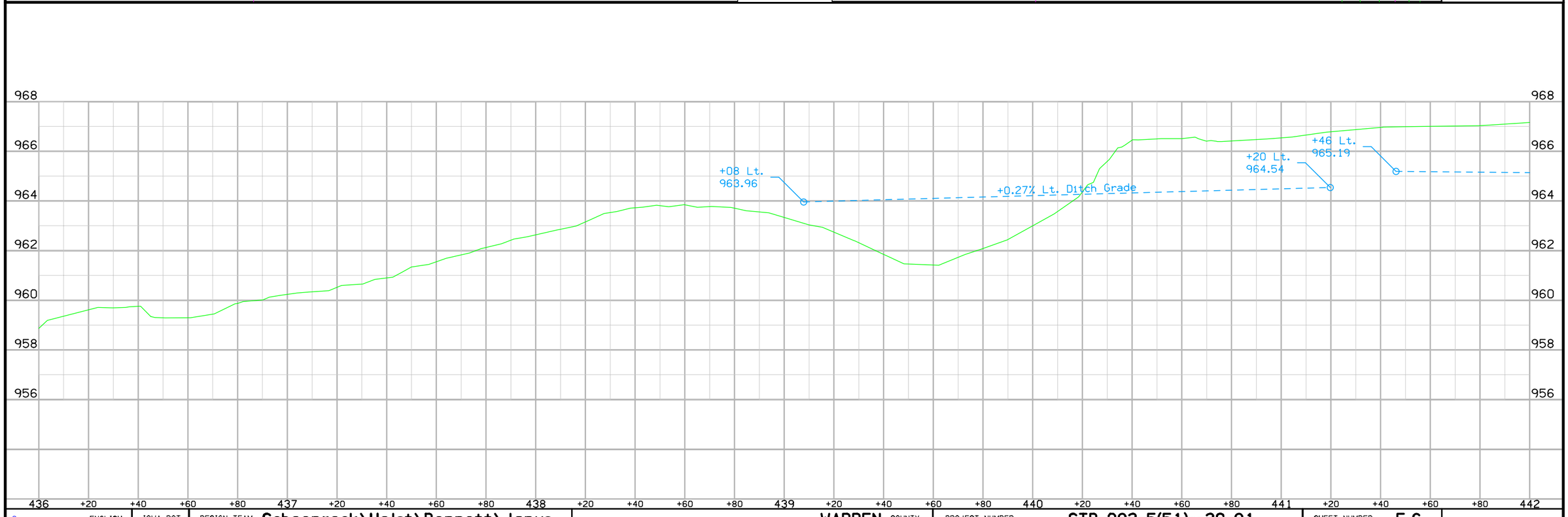

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER F.6

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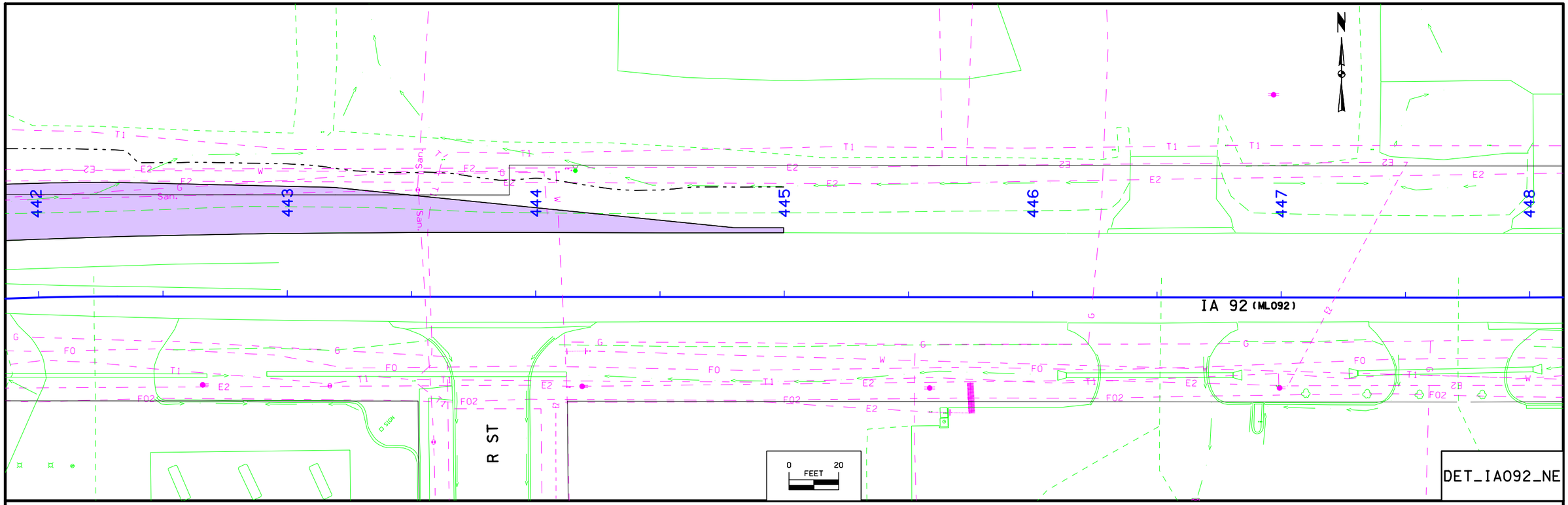

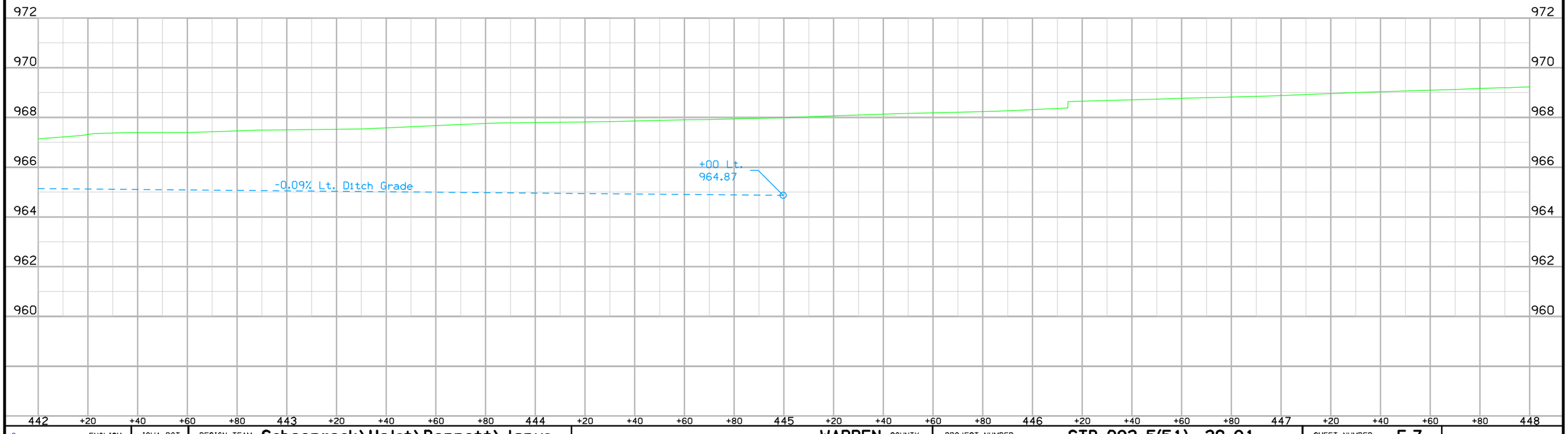

C ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER F.7	

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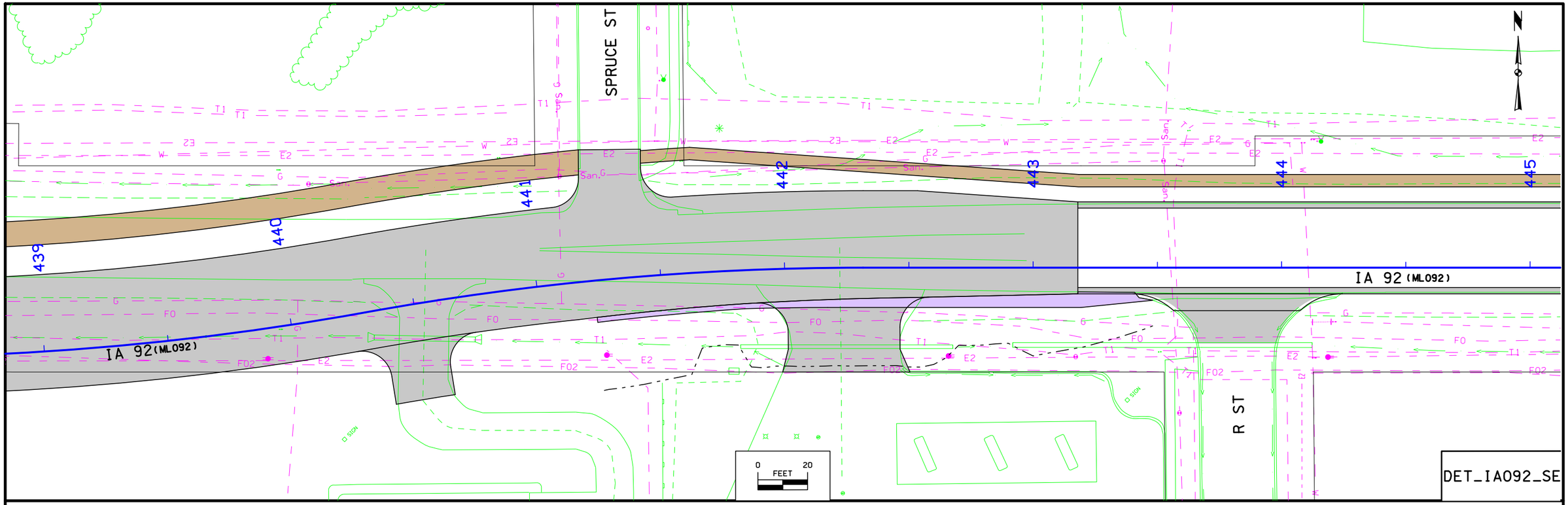

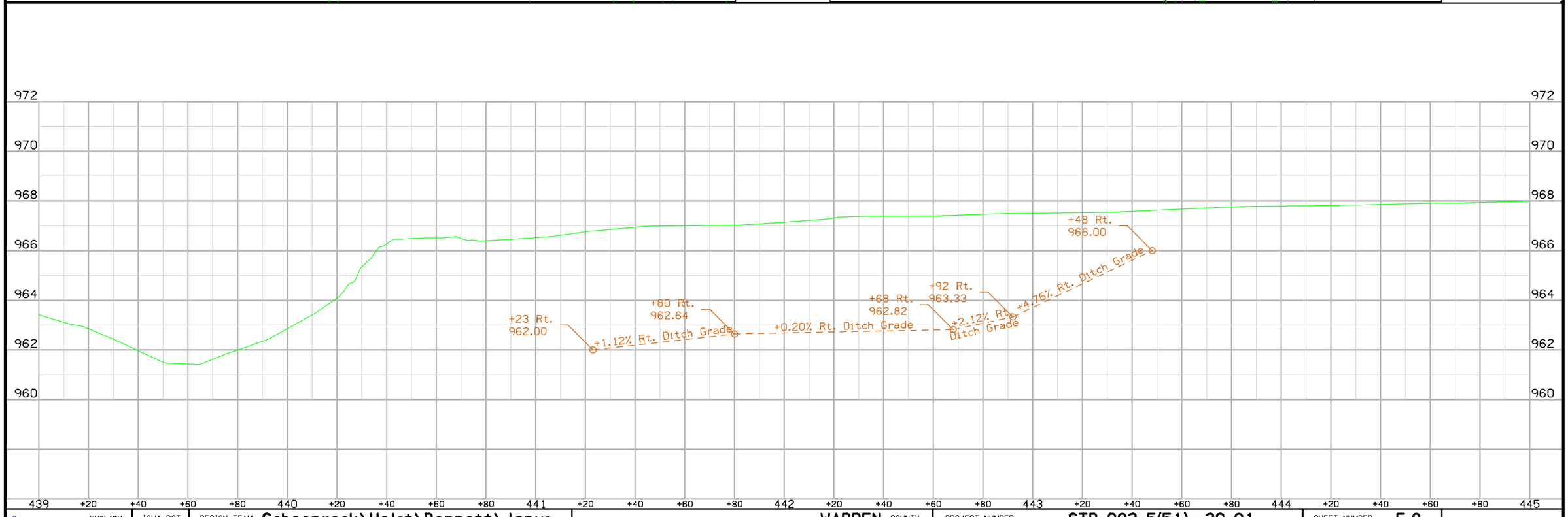

C ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER F.8	

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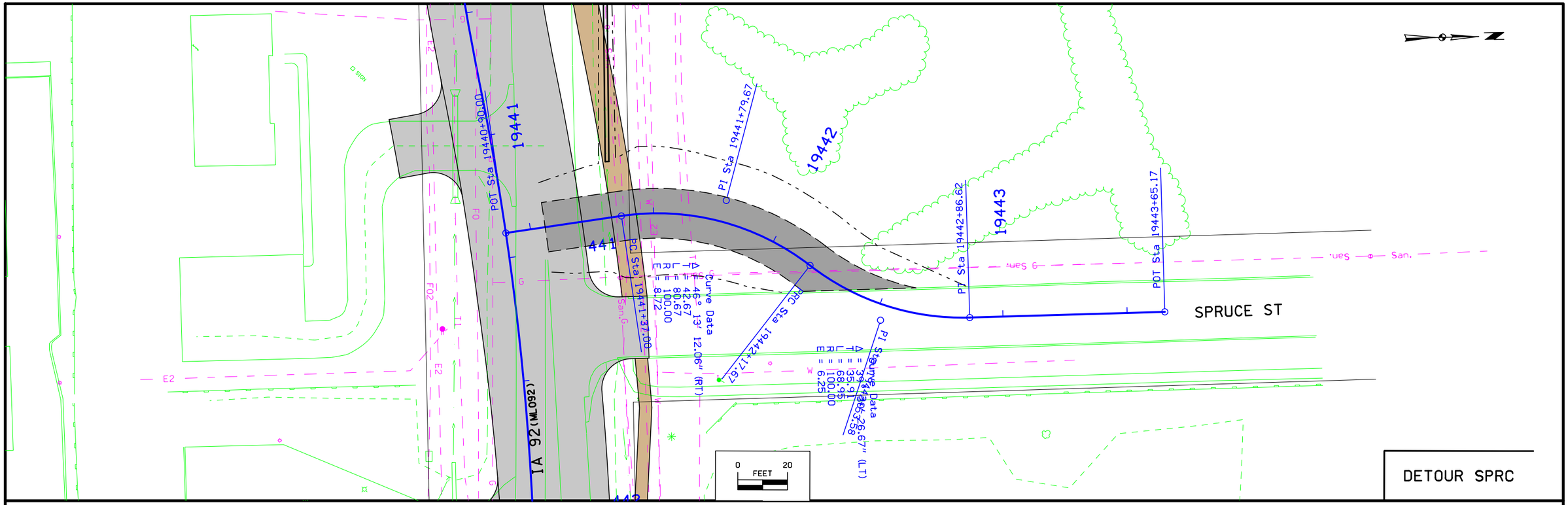
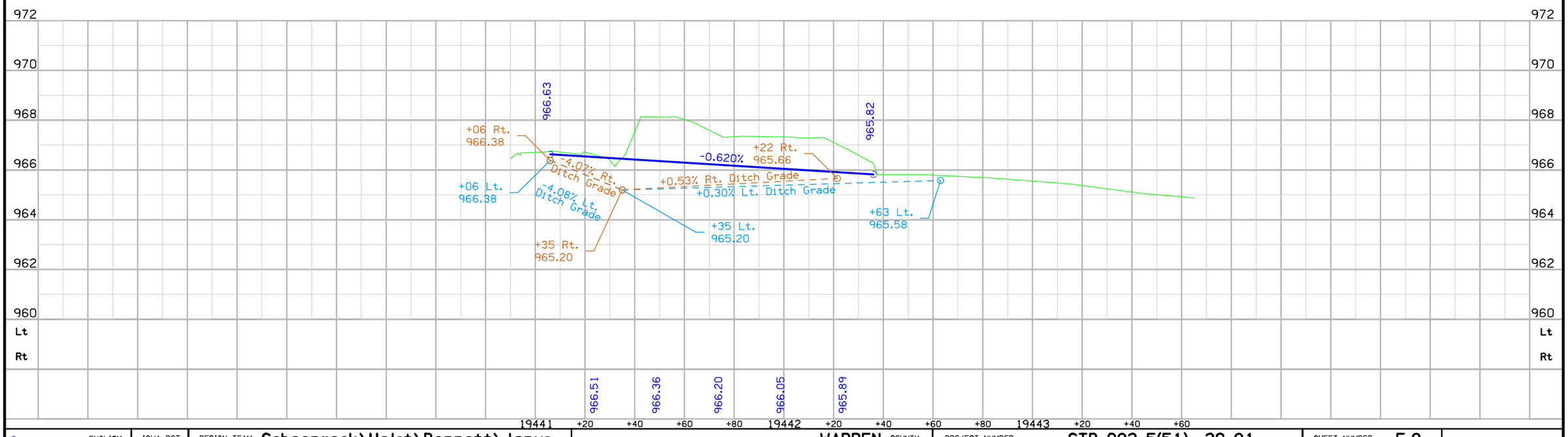




C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER F.9

1:05:15 PM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051F01.sht

Survey Information

Warren County
STP-092-5(46)—2C-91
IA 92 From Just W. of Co. Rd. R-57
To S. Kenwood Blvd. in Indianola
04-91-092-010-01
Sap-0482.2

General Information

Measurement units for this survey are US survey feet. This survey is for improvements on IA 2 in Warren County. This field survey was to obtain roadway and drainage features and break lines. The entire digital terrain model and topography in the corridor will be completed by supplemental aerial photography..

Vertical Control
This survey control is relative to NAVD88 Datum in accordance with 3rd. order vertical accuracy. NAVD88 height was transferred to the project at CP # 25 & CP # 35 using averaging redundant IARTN observations applying Geoid 2009. Iowa RTN reference stations are relative vertically to highly accurate National Geodetic Survey (NGS) Reference Stations that are used by NGS for reporting heights relative to NAVD88 datum. A 3-wire level loop was run from CP # 25 through the project benchmarks and ended at CP # 35. The loop error was allowable and the error was distributed proportionately among the project marks

Vertical equations are as follows:

Datum Benchmarks
CP # 25 this survey, elevation 958.76=
G025 Project # STP-092-5(46)--2C-91, elevation 958.86

CP # 35 this survey, elevation 967.18=
G035 Project # STP-092-5(46)--2C-91, elevation 967.14

Horizontal Control

The GPS Network along this project was collected by IDOT Preliminary Survey Crews. Information about that network can be found in the 0482gpspoints.rep file included with this survey in NAD83(1996) Datum.. Iowa State Plane Coordinates were transformed to project coordinates using the following information.

General Information for GPS Project : STP-092-5(46)--2C-91 SAP 482
State Plane Coordinate Zone 1402 (Iowa South Lambert)

Average Project Latitude = 41 21 46.06621
Resulting Radius = 6363322.382 (Meters)
Mean Project Elevation = 279.990 (Meters)
Sea Level Factor = 0.999956001
Average Project Scale Factor = 0.999953270
Combined Factor (Grid) = 0.999909273
1 / Grid = 1.000090735
Vertical Datum = NAVD 88 <> Horizontal Datum = NAD 83 (1996)

Local Project Plane Coordinate Conversion Equation:
a. Local Project Coord y = [(State Plane y - hold point y) 1/grid factor] + hold point y
b. Local Project Coord x = [(State Plane x - hold point x) 1/grid factor] + hold point x

Alignment Information

The horizontal alignment for this survey is a retrace of As-built Plans No. P-569 Survey stationing was equated to the plans at PI Sta. 263+46.7 and carried back and ahead with no equation throughout the survey.

Equations are as follows:

PI Sta. 263+46.7 This Survey
= PI Sta. 263+46.7 As-built Plans Project No. P-569

PI Sta. 283+72.3 This Survey
= PI Sta. 283+70.97 As-built Plans Project No. P-569

PI Sta. 310+27.4 This Survey
= PI Sta. 310+25.39 As-built Plans Project No. P-569

PI Sta. 336+75.5 This Survey
= PI Sta. 336+71.87 As-built Plans Project No. P-569

PI Sta. 343+76.9 This Survey
= PI Sta. 343+73.27 As-built Plans Project No. P-569

PI Sta. 351+50.8 This Survey
= PI Sta. 351+45.19As-built Plans Project No. P-569

PI Sta. 365+11.5 This Survey
= PI Sta. 365+06.91 As-built Plans Project No. P-569

PI Sta. 391+06.4 This Survey
= PI Sta. 391+01.81 As-built Plans Project No. P-569

PI Sta. 417+43.4 This Survey
= PI Sta. 417+36.67 As-built Plans Project No. P-569

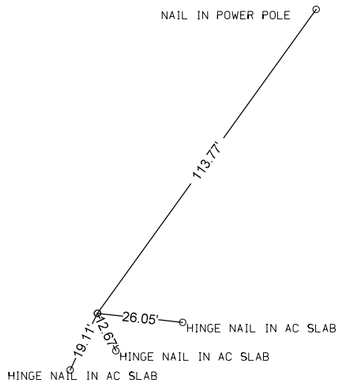
PI Sta. 438+94.7 This Survey
= PI Sta. 438+87.96 As-built Plans Project No. P-569

PI Sta. 451+26.0 This Survey
= PI Sta. 451+20.20 As-built Plans Project No. P-569

VERTICAL CONTROL

Point	North	East	Elevation	Station	Offset	Description
659	494848.786	1597094.294	932.179	246+17.65	45.909	SET\RR SPK E SIDE 1ST POWER POLE
660	494140.746	1598099.141	950.571	258+46.84	34.474	SET\RR SPK E SIDE POWER POLE
661	493843.985	1598916.852	962.955	267+16.92	26.062	SET\RR SPK N SIDE POWER POLE
662	493790.182	1599914.401	969.535	277+15.27	62.083	SET\RR SPK N SIDE POWER POLE
663	493809.495	1600544.970	971.893	283+45.39	31.540	SET\RR SPK N SIDE POWER POLE
664	493801.002	1601735.334	967.621	295+35.44	31.666	SET\RR SPK N SIDE POWER POLE
665	493793.570	1602616.804	980.958	304+16.94	33.113	SET\RR SPK N SIDE POWER POLE
666	493774.151	1603186.184	970.300	309+86.44	48.666	CONC MONUMENT
667	493761.377	1604526.042	975.070	323+26.48	49.186	CONC MONUMENT
668	493764.357	1605810.055	968.332	336+10.41	34.374	SET\RR SPK S SIDE POWER POLE
669	493952.361	1606901.909	974.072	347+14.74	48.102	SET\RR SPK W SIDE POWER POLE
670	494182.094	1608008.803	966.556	358+97.50	39.449	SET\RR SPK N SIDE POWER POLE
671	494163.385	1609230.603	974.025	371+19.20	53.216	SET\RR SPK S SIDE POWER POLE
672	494181.064	1610588.817	975.829	384+77.37	32.550	CUT X ON R.O.W. RAIL
673	494255.767	1611520.232	974.200	394+07.47	-51.566	CUT X NW BOLT 1ST FIRE HYDRANT
674	494225.721	1612685.096	976.154	405+72.72	-52.100	CUT X ON NW BOLT FIRE HYDRANT
675	494186.822	1613914.713	967.557	418+03.27	-44.989	CUT X ON NW BOLT FIRE HYDRANT
676	494060.801	1615399.101	965.440	432+89.77	53.111	CUT X ON NE BOLT FIRE HYDRANT
677	494169.002	1616259.880	969.058	441+49.41	-67.303	CUT X ON SW BOLT FIRE HYDRANT
678	494142.697	1617266.587	971.521	451+58.64	-31.568	CUT X ON S BOLT FIRE HYDRANT
679	494179.247	1618305.076	967.642	461+96.05	46.333	CUT X ON SE BOLT FIRE HYDRANT
680	494489.398	1619450.029	968.177	Off Chain	Off Chain	NE BOLT FIRE HYDRANT

CP STA OFF CHAIN
CP No. 10, Fd. Rebar
N=496175.910, E=1561565.170



CP STA OFF CHAIN
CP No. 12, Fd. Feno Monument
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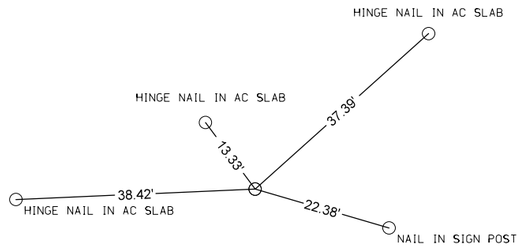

CP STA OFF CHAIN
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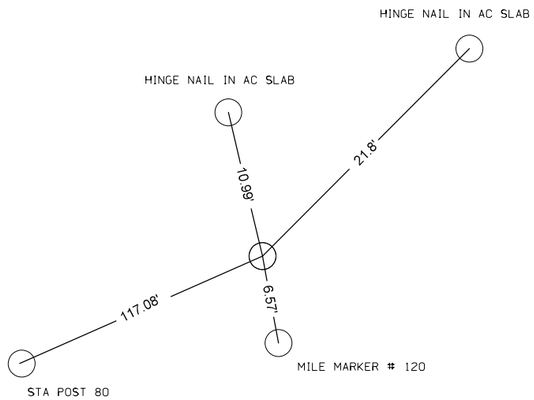

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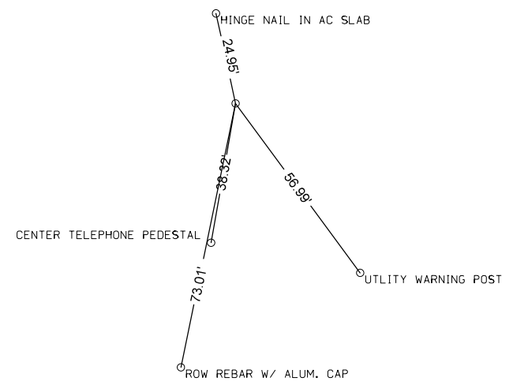

CP STA 3+91.63, 180.71 Rt.
CP No. 15, Fd. Rebar
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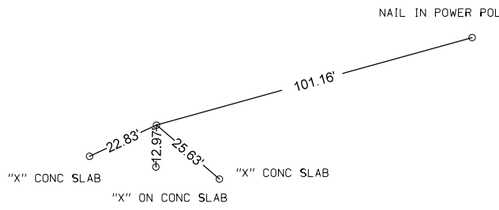

CP STA 23+47.79, 21.90 Lt.
CP No. 16, Fd. Rebar
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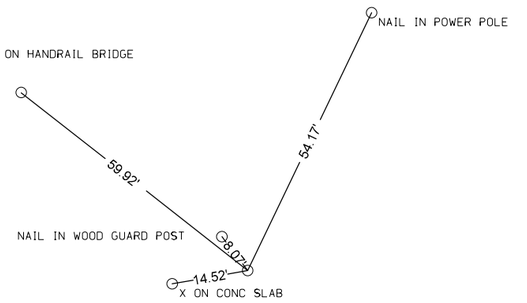

CP STA 36+16.39, 19.13 Rt.
CP No. 17, Fd. Rebar
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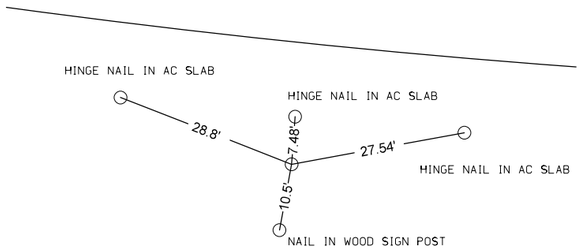

CP STA 68+34.41, 21.89 Rt.
CP No. 18, Fd. Rebar
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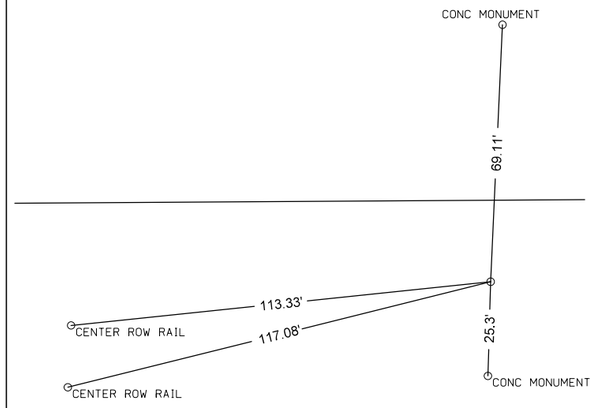

CP STA 97+35.35, 21.36 Lt.
CP No. 19, Fd. Rebar
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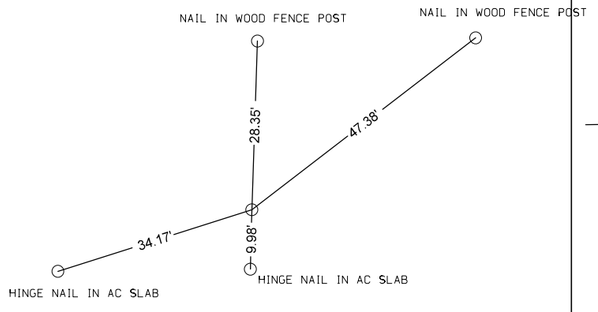

CP STA 139+97.21, 22.08 Lt.
CP No. 20, Fd. Rebar
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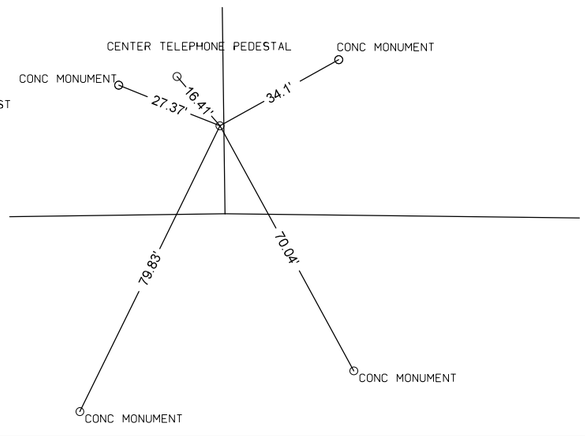

CP STA 183+66.82, 19.52 Rt.
CP No. 21, Fd. Rebar
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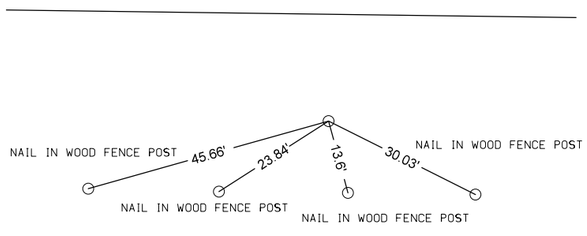

CP STA 192+66.29, 69.52 Lt.
CP No. 22, Fd. Rebar
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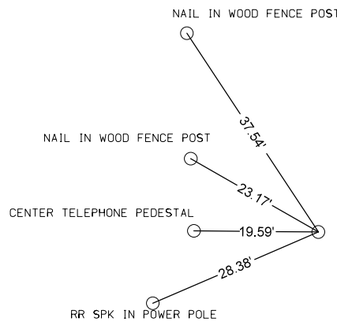

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.2

1:11:29 PM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051G01.sht

CP STA 202+26.65, 23.77 Lt.
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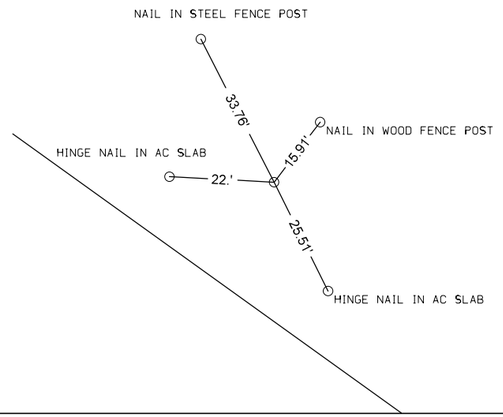

CP STA 212+27.42, 25.52 Lt.
CP No. 24, Fd. Rebar
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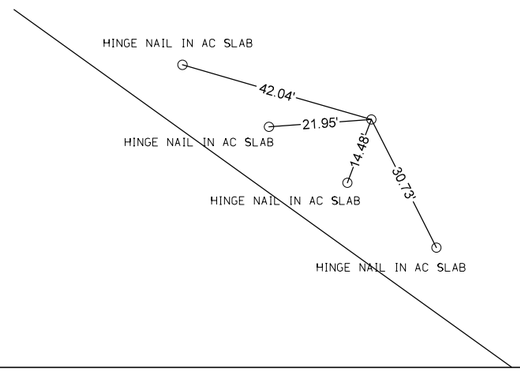

CP STA 246+74.28, 15.78 Lt.
CP No. 324, Fd. Iron Pin
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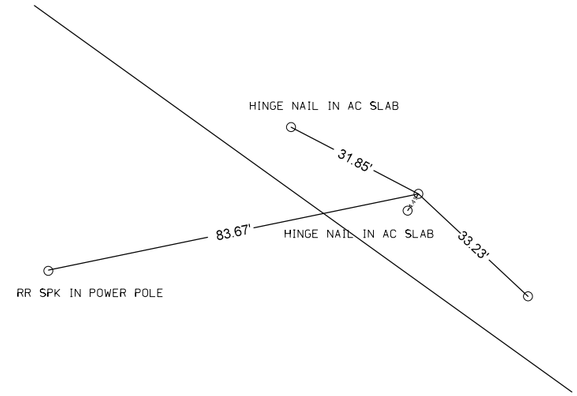

CP STA 257+09.95, 23.63 Rt.
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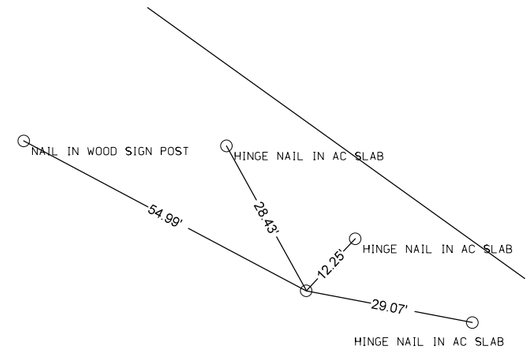

CP STA 263+35.7, 54.56 Rt.
CP No. 25, Fd. Rebar
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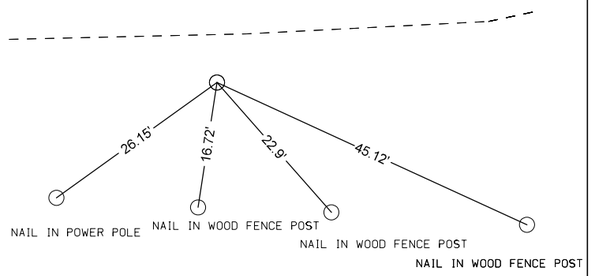

CP STA 275+00.55, 17.59 Rt.
CP No. 26, Fd. Rebar
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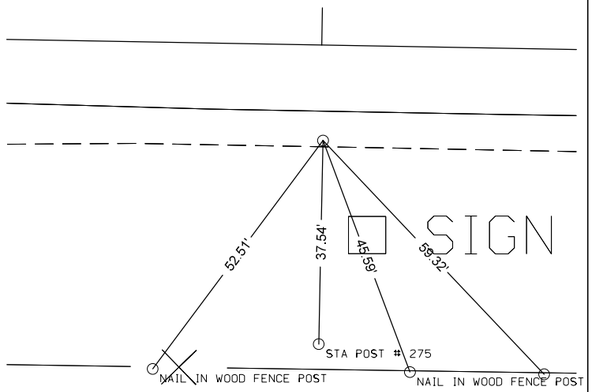

CP STA 283+29.75, 47.72 Lt.
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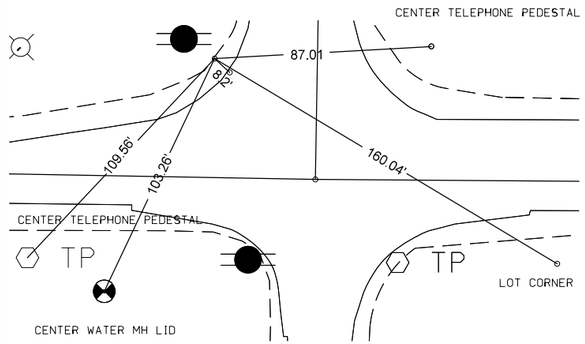

CP STA 293+73.67, 19.02 Rt.
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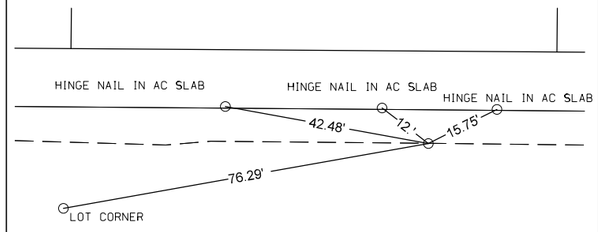

CP STA 302+85.88, 26.47 Lt.
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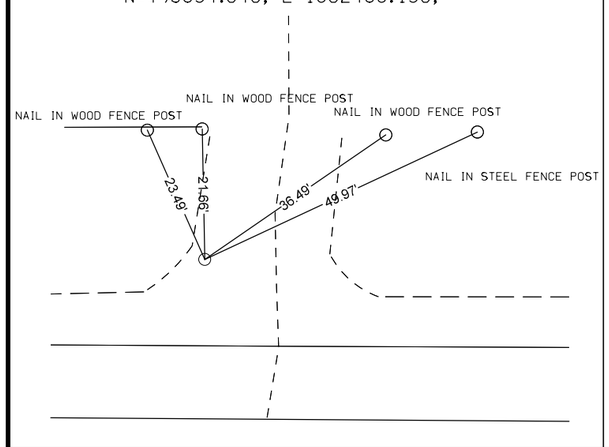

CP STA 310+51.04, 27.19 Rt.
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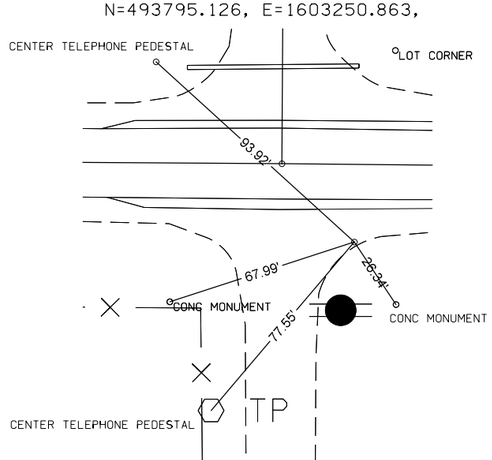

CP STA 323+51.93, 27.54 Lt.
CP No. 28, Fd. Rebar
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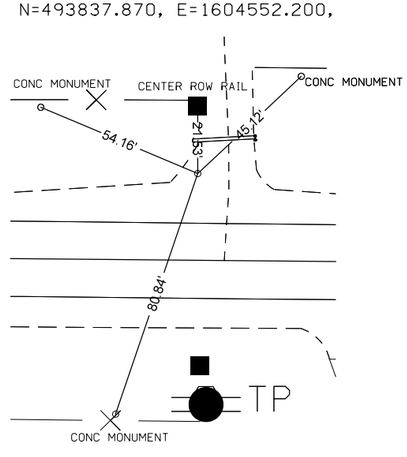

CP STA 331+33.48, 20.40 Lt.
CP No. 329, Fd. Iron Pin
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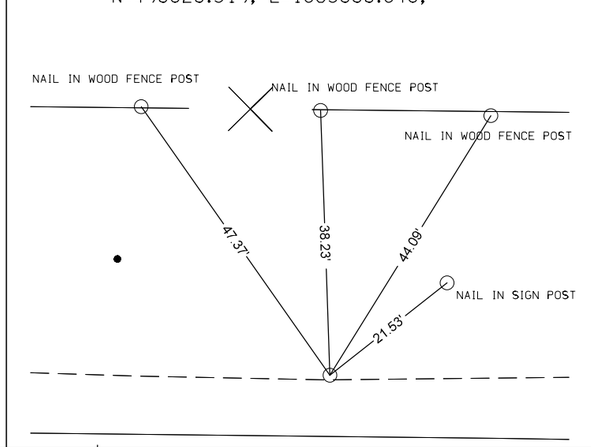

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.3

CP STA 342+98.08, 21.90 Rt.
CP No. 29, Fd. Rebar
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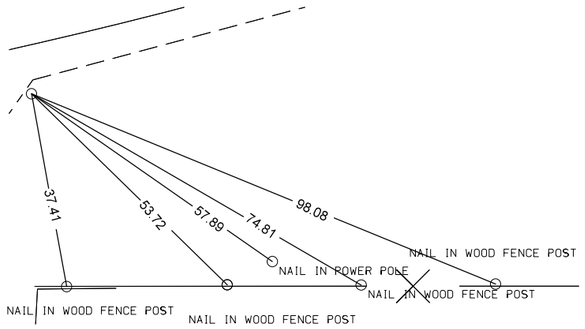

CP STA 350+95.08, 20.57 Lt.
CP No. 30, Fd. Rebar
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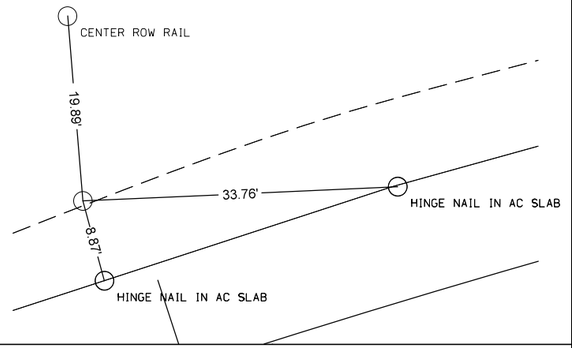

CP STA 359+87.72, 18.85 Lt.
CP No. 330, Fd. Iron Pin
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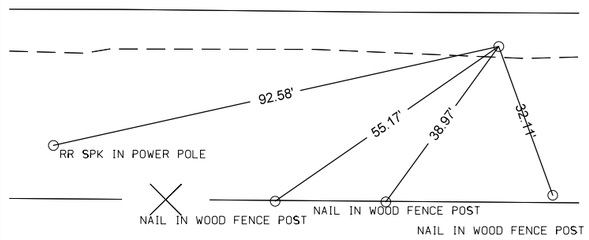

CP STA 368+07.83, 46.84 Lt.
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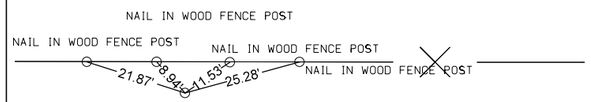

CP STA 377+81.08, 17.74 Lt.
CP No. 331, Fd. Iron Pin
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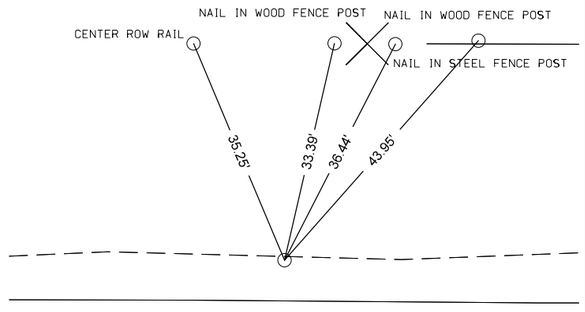

CP STA 386+82.38, 22.31 Rt.
CP No. 32, Fd. Rebar
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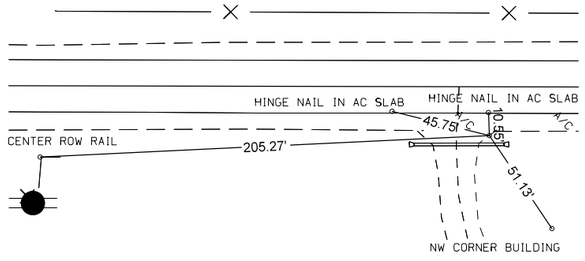

CP STA 391+45.71, 33.75 Lt.
CP No. 332, Fd. Iron Pin
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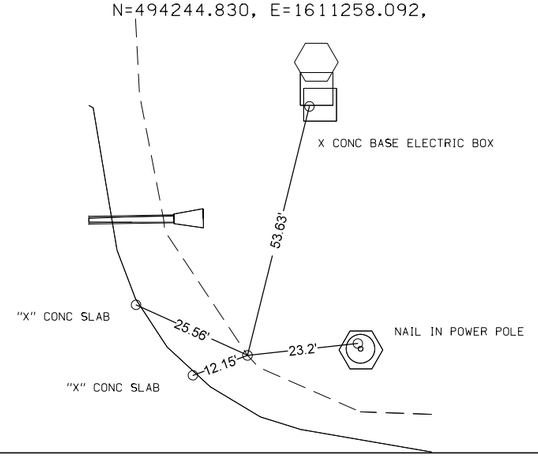

CP STA 401+75.95, 36.08 Rt.
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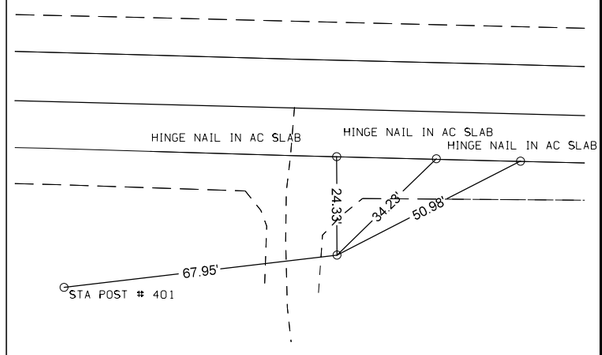

CP STA 408+86.04, 20.70 Lt.
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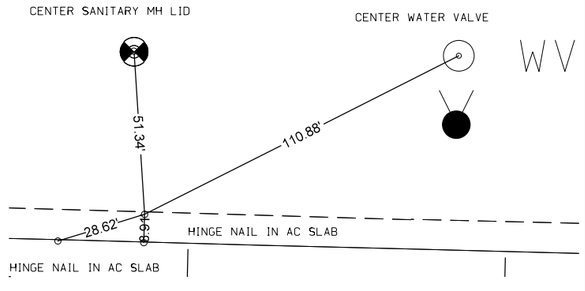

CP STA 417+02.74, 28.34 Rt.
CP No. 334, Fd. Iron Pin
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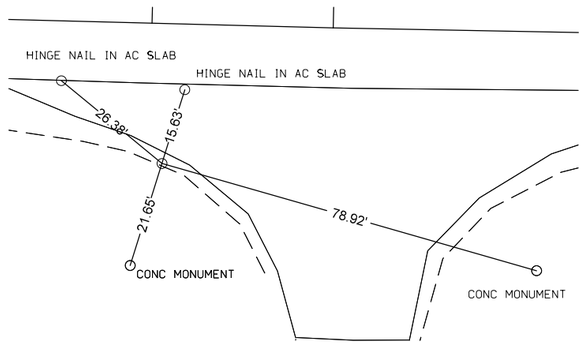

CP STA 425+26.32, 19.97 Rt.
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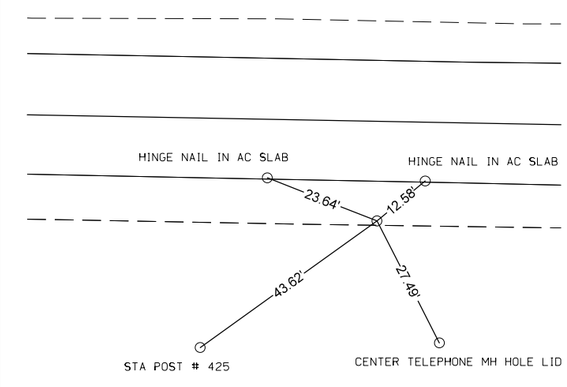

CP STA 433+23.93, 28.04 Rt.
CP No. 34, Fd. Rebar
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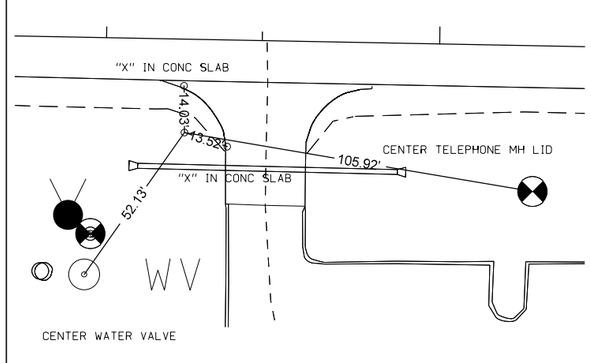

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.4

CP STA 441+70.77, 24.95, 24.95 Rt.
CP No. 336, Fd. Iron Pin
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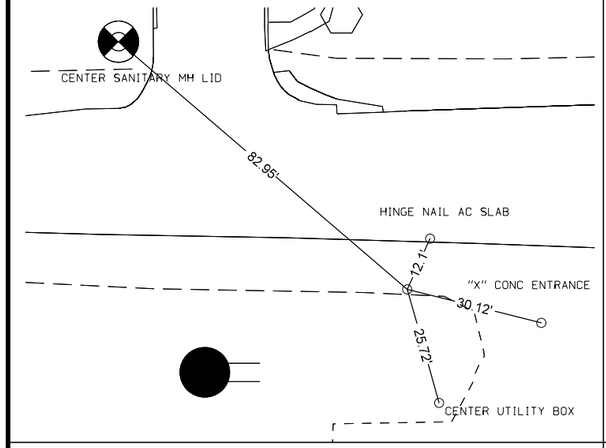

CP STA 449+71.11, 35.09 Rt.
CP No. 35, Fd. Feno Monument
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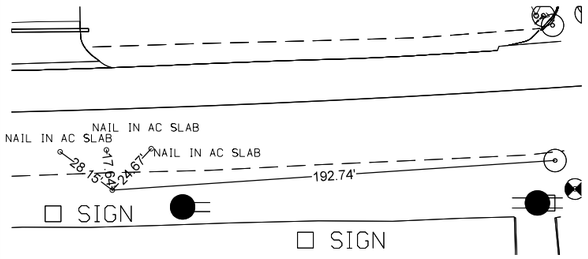

CP STA 455+71.13, 24.86 Rt.
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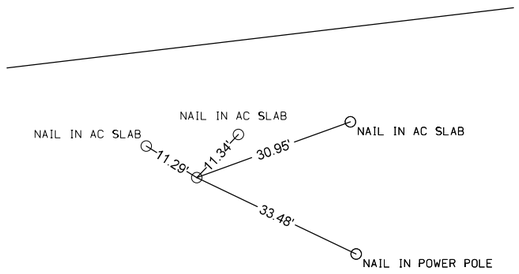

CP STA 462+35.77, 23.50 Lt.
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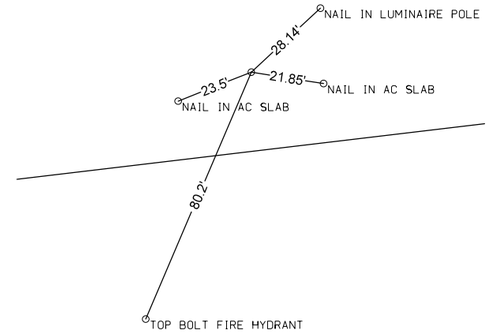
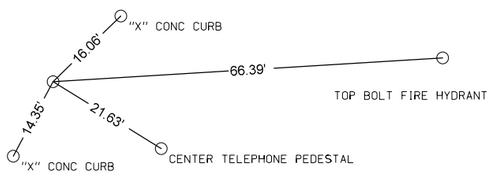


CP STA Off Chain
CP No. 339, Fd. Iron Pin



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.5

ALIGNMENT COORDINATES

101-16
10-20-09

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
20001	ML092	255+00.00	494,371.15	1,597,837.61															
20006	ML092				258+45.63	494,169.44	1,598,118.28	260+05.63	494,078.36	1,598,249.80	264+10.92	493,839.55	1,598,577.33	267+85.11	493,838.66	1,598,982.67	269+45.11	493,834.41	1,599,142.60
20015	ML092				337+72.34	493,772.36	1,605,969.55	339+32.34	493,773.69	1,606,129.52	342+33.59	493,768.17	1,606,430.78	345+19.31	493,909.54	1,606,696.86	346+79.31	493,980.80	1,606,840.09
20022	ML092				347+85.31	494,029.67	1,606,934.15	349+45.31	494,100.94	1,607,077.39	352+55.89	494,246.61	1,607,351.75	355+49.82	494,237.44	1,607,662.25	357+09.82	494,236.94	1,607,822.23
20028	ML092							390+67.33	494,167.94	1,611,179.03	391+01.53	494,167.24	1,611,213.23	391+35.73	494,166.34	1,611,247.42			
20032	ML092							416+90.59	494,099.28	1,613,801.39	417+35.31	494,098.11	1,613,846.10	417+80.03	494,097.27	1,613,890.81			
20036	ML092							438+11.62	494,059.08	1,615,922.04	439+21.21	494,057.02	1,616,031.61	440+30.11	494,076.15	1,616,139.52			
20038	ML092							440+30.11	494,076.15	1,616,139.52	441+31.12	494,093.78	1,616,238.98	442+31.59	494,093.40	1,616,339.99			
20043	ML092							447+70.70	494,091.42	1,616,879.10	451+22.49	494,090.13	1,617,230.88	454+73.40	494,131.67	1,617,580.21			
20046	ML092	466+80.72	494,274.21	1,618,779.08															
31000	SRKENNEDY	1256+05.14	493,946.86	1,597,951.77															
31002	SRKENNEDY	1258+87.00	494,145.34	1,598,151.90															
30000	SR57S	1273+87.78	492,836.02	1,600,580.14															
30003	SR57S	1283+73.24	493,821.43	1,600,570.67															
30010	SR57N	1383+68.17	493,821.48	1,600,565.60															
30013	SR57N	1394+41.91	494,895.22	1,600,565.83															
40000	SR90TH	2303+28.16	493,097.25	1,603,227.88															
40002	SR90TH	2310+28.21	493,797.30	1,603,225.53															
40004	SR90TH	2317+28.21	494,497.30	1,603,223.17															
50000	SR63S	3384+70.68	493,534.41	1,611,217.98															
50001	SR63S	3391+03.42	494,167.15	1,611,215.11															
50010	SR63N	3391+03.95	494,167.14	1,611,215.64															
50011	SR63N	3398+03.35	494,866.40	1,611,201.59															
60011	SRYSTS	4412+74.33	493,632.11	1,613,854.33															
60012	SRYSTS	4413+22.77	493,680.54	1,613,853.53															
60013	SRYSTS	4413+72.56	493,730.32	1,613,852.79															
60015	SRYSTS	4417+40.32	494,098.08	1,613,851.11															
60000	SRYSTN	4417+33.40	494,098.23	1,613,844.19															
60001	SRYSTN	4424+09.38	494,774.21	1,613,843.99															

ALIGNMENT COORDINATES

101-16
10-20-09

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
90000	ENT258	98+68.14	494,052.48	1,598,058.28															
90001		100+00.00	494,145.34	1,598,151.90															
90002								100+71.65	494,203.67	1,598,193.51	101+46.98	494,265.00	1,598,237.26	102+17.98	494,340.28	1,598,239.84			
90004		103+14.58	494,436.82	1,598,243.15															
90005	ENT259	100+00.00	494,381.81	1,597,968.42															
90005								101+20.00	494,358.92	1,598,086.21	101+76.66	494,348.11	1,598,141.83	102+30.43	494,309.73	1,598,183.52			
90007								104+30.43	494,174.26	1,598,330.65	104+62.64	494,152.44	1,598,354.35	104+94.30	494,139.17	1,598,383.70			
90009		105+70.41	494,107.81	1,598,453.04															
90014	ENT269	95+33.10	494,037.37	1,598,836.03															
90015								95+80.40	493,993.49	1,598,853.66	96+24.58	493,952.49	1,598,870.14	96+59.22	493,949.72	1,598,914.24			
90017		100+00.00	493,928.40	1,599,254.34															
90010	ENT270	97+80.00	493,613.42	1,599,251.48															
90011		100+00.00	493,833.41	1,599,253.48															
90011								101+06.87	493,940.27	1,599,254.45	101+71.34	494,004.74	1,599,255.04	102+31.60	494,056.73	1,599,293.16			
90013		102+59.60	494,079.31	1,599,309.72															
90025	ENT275	100+00.00	493,893.24	1,599,844.05															
90026		100+69.23	493,931.57	1,599,786.40															
90020	ENT276	100+00.00	493,828.04	1,599,843.46															
90021								100+70.21	493,898.25	1,599,844.10	100+74.35	493,902.39	1,599,844.13	100+78.48	493,906.52	1,599,843.89			
90023		101+40.15	493,968.08	1,599,840.20															
90030	ENT291	98+59.16	493,673.99	1,601,388.99															
90031								99+59.01	493,773.16	1,601,377.36	99+68.08	493,782.16	1,601,376.30	99+77.11	493,791.22	1,601,376.61			
90032		100+00.00	493,814.10	1,601,377.39															
90033		101+20.04	493,934.07	1,601,381.48															
90040	ENT297	97+18.87	493,529.41	1,601,891.83															
90041								97+48.87	493,559.41	1,601,892.10	97+70.37	493,580.92	1,601,892.30	97+91.72	493,601.89	1,601,897.06			
90042								98+11.72	493,621.39	1,601,901.49	98+34.91	493,644.01	1,601,906.62	98+57.89	493,667.20	1,601,906.45			
90043		100+00.00	493,809.30	1,601,905.37															
90044		101+20.00	493,929.31	1,601,905.46															
90047	ENT298	100+00.00	493,704.35	1,601,906.17															
90049		100+62.11	493,688.74	1,601,966.28															
90050	ENT305	98+80.00	493,681.83	1,602,727.25															
90051		100+00.00	493,801.82	1,602,728.34															
90066	ENT322	98+93.56	493,663.11	1,604,456.15															
90067		100+00.00	493,710.24	1,604,551.58															
90060	ENT323	96+84.92	493,484.75	1,604,605.53															
90061								97+64.92	493,564.74	1,604,606.26	97+98.08	493,597.90	1,604,606.56	98+28.46	493,623.33	1,604,585.28			
90063								98+48.46	493,638.66	1,604,572.44	98+81.62	493,664.09	1,604,551.16	99+12.00	493,697.25	1,604,551.46			
90064		100+00.00	493,785.24	1,604,552.26															
90065		102+00.00	493,985.23	1,604,554.08															
90070	ENT331	98+00.00	493,578.34	1,605,310.41															
90071		100+00.00	493,778.33	1,605,312.23															
90080	ENT341	94+00.70	493,209.61	1,606,415.14															
90081								95+27.63	493,336.37	1,606,421.62	95+73.99	493,382.68	1,606,423.99	96+19.31	493,426.75	1,606,409.60			
90083								99+40.16	493,731.74	1,606,310.00	99+49.84	493,740.94	1,606,306.99	99+59.47	493,750.50	1,606,305.50			
90084		100+00.00	493,790.55	1,606,299.26															
90085								100+61.11	493,850.92	1,606,289.84	100+71.04	493,860.74	1,606,288.31	100+80.93	493,870.67	1,606,288.41			
90087		101+10.51	493,900.25	1,606,288.72															
90090	ENT352	98+95.18	494,091.62	1,607,356.71															
90091		100+00.00	494,196.43	1,607,355.69															
90092								100+47.55	494,243.97	1,607,355.23	100+79.97	494,276.40	1,607,354.91	101+05.08	494,289.91	1,607,384.39			
90093		101+62.97	494,314.04	1,607,437.01															
90100	ENT359	96+73.79	494,137.73	1,607,780.69															
90101								98+71.48	494,133.71	1,607,978.33	99+21.46	494,132.70	1,608,028.31	99+50.00	494,182.68	1,608,029.34			
90102		100+00.00	494,232.66	1,608,030.37															
90103								100+90.00	494,322.64	1,608,032.22	101+80.00	494,412.62	1,608,034.07	102+31.37	494,410.77	1,608,124.05			
90105		103+43.37	494,408.47	1,608,236.02															

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER G.7

ALIGNMENT COORDINATES

101-16
10-20-09

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
90115	ENT364	96+63.00	494,026.91	1,608,308.20															
90116		100+00.00	494,019.98	1,608,645.13															
90110	ENT365	97+80.00	493,999.99	1,608,644.72															
90111		100+00.00	494,219.94	1,608,649.24															
90111								100+49.55	494,269.48	1,608,650.25	100+76.37	494,296.30	1,608,650.81	101+02.33	494,320.80	1,608,639.89			
90113		102+56.34	494,461.47	1,608,577.18															
90120	ENT367	98+79.96	494,079.19	1,609,657.56															
90121		100+00.00	494,199.23	1,609,657.02															
90122		101+00.04	494,299.27	1,609,656.08															
31201	ENT1257 (KENNEDY)	100+00.00	494,020.70	1,598,026.23															
31203								101+39.30	493,927.84	1,598,130.06	101+82.50	493,899.04	1,598,162.26	102+22.23	493,897.37	1,598,205.43			
31204		102+80.29	493,895.13	1,598,263.44															
30201	ENT1281 (R-53)	99+19.94	493,642.43	1,600,492.39															
30202		100+00.00	493,640.20	1,600,572.41															
30203		100+80.02	493,638.97	1,600,652.43															
40201	ENT2307 (90TH)	100+00.00	493,549.09	1,603,226.36															
40202		101+00.00	493,549.43	1,603,326.36															
40205	ENT2313 (90TH)	100+00.00	494,077.09	1,603,224.59															
40206		101+00.00	494,077.43	1,603,324.58															

SPIRAL OR CIRCULAR CURVE DATA

101-17
04-19-11

Name	Location	Δ_{scs}	Horizontal Alignment Data													Remarks
			Spiral Data								Curve Data					
			θs	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	Δ_c	T	L	R	E	
20006		35° 10′ 54.09″ LT	2° 59′ 45.09″	-160.00′	TS	53.35′	159.96′	2.79′	106.68′	53.35′	29° 11′ 23.92″ LT	398.39′	779.48′	1,530.00′	51.02′	
20015		27° 58′ 21.68″ LT	2° 59′ 45.09″	-160.00′	TS	53.35′	159.96′	2.79′	106.68′	53.35′	21° 58′ 51.50″ LT	297.14′	586.97′	1,530.00′	28.59′	
20022		28° 37′ 45.84″ RT	2° 59′ 45.09″	160.00′	TS	53.35′	159.96′	2.79′	106.68′	53.35′	22° 38′ 15.66″ RT	306.25′	604.51′	1,530.00′	30.35′	
20028											0° 19′ 35.74″ RT	34.20′	68.40′	12,000.00′	0.05′	
20032											0° 25′ 37.45″ LT	44.72′	89.45′	12,000.00′	0.08′	
20036											11° 07′ 40.08″ LT	109.59′	218.49′	1,125.00′	5.33′	
20038											10° 15′ 40.29″ RT	101.01′	201.48′	1,125.00′	4.53′	
20043											6° 59′ 27.10″ LT	351.79′	702.70′	5,759.23′	10.73′	

SUPERELEVATION DATA

See PV-300 Series

Road Identification	Circular Curve or Spiral Curve Name	Radius	Superelevation Data			Standard Road Plan	Section A-A	Section B-B	Section C-C	Section D-D	Section E-E	Section F-F	Case A	Case B	Case C	Case S	Case T	Case U	Remarks
			e	L	x														
		FT	%	FT	FT														
IA 92	20006	1530	6.0	160	53	PV-301	257+92.63	258+45.63	258+98.63	260+05.63			260+05.63			259+52.30	259+52.30		
							269+98.11	269+45.11	268+92.11	267+85.11			267+85.11			268+38.44	268+38.44		
IA 92	20015	1530	6.0	160	53	PV-301	337+19.34	337+72.34	338+25.34	339+32.34			339+32.34			338+79.01	338+79.01		
							347+32.31	346+79.31	346+26.31	345+19.31			345+19.31			345+72.64	345+72.64		
IA 92	20022	1530	6.0	160	53	PV-301	347+32.31	347+85.31	348+38.31	349+45.31			349+45.31			348+91.98	348+91.98		
							357+62.82	357+09.82	356+56.82	355+49.82			355+49.82			356+03.15	356+03.15		

PARCEL CHECK BY PROJ UPDATED 10/15/12 12:56 PAGE: 1
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R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : WARREN PROJECT NO. :STPN-092-5(50)--2J-91 PIN: 04-91-092010-00

CONSTRUCTION NO.:STP-092-5(46)--2C-91 ASSIGNED TO: SJD

DESCRIPTION : Ia. 92 From I-35 E. To Indianola

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
0001	26227	DARYL L. WILLIAMS	FEE STATE OF IOWA						
				0.18 EASE ACRE					
				0.32 WD ACRE					
0002	26228	HAROLD HEISEY	FEE STATE OF IOWA						
				0.04 EASE ACRE					
0003	26229	TIM WORTHINGTON	FEE STATE OF IOWA						
		JEAN ENTZ	FEE	0.56 WD ACRE					
0004	26230	CENTER CHAPEL CHURCH	FEE WARREN COUNTY						
				0.04 EASE ACRE					
			STATE OF IOWA						
				0.52 WD ACRE					
0007	26233	ELMER E. TAYLOR	FEE STATE OF IOWA			1 (TRAILER)			
				1.82 WD ACRE		2 BARNS			
0008	26234	NICK D. ADAMS	FEE STATE OF IOWA						
		BETH A. ADAMS	FEE	0.39 WD ACRE					
0009	26235	SCOTT R. WILSON	FEE STATE OF IOWA						
		KIMBERLY A. WILSON	FEE	0.19 WD ACRE					
0010	26236	KENNETH W. RICHARDSON	FEE STATE OF IOWA						
				0.26 WD ACRE					
0011	26237	ROBERT WAGNER	FEE STATE OF IOWA						
		CAROLYN WAGNER	FEE	0.71 WD ACRE					
0012	26238	MARK WOOSLEY	FEE WARREN COUNTY						
		JOYCE WOOSLEY	FEE	0.05 EASE ACRE					

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DESCRIPTION : Ia. 92 From I-35 E. To Indianola

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
				STATE OF IOWA					
				0.35 WD ACRE					
0013	26239	ELDON WOLTZ TRUST	FEE	WARREN COUNTY		1 BARN			
		PETER C. WOLTZ (TRUSTEE)	FEE	0.13 EASE ACRE					
				STATE OF IOWA					
				2.13 WD ACRE					
0014	26240	CONNIE S. BENCE	FEE	STATE OF IOWA		1			
				0.41 WD ACRE					
				0.52 EXCESS AC					
0015	26241	LLOYD JANES	FEE	WARREN COUNTY					
		CHERYL JANES	FEE	0.06 EASE ACRE					
				STATE OF IOWA					
				0.74 WD ACRE					
0015 A	26548	MICHAEL D. COX	FEE						
		CONNIE R. COX	FEE						
0016	26242	GEORGANNA M. MORRIS	FEE	STATE OF IOWA					
				0.16 WD ACRE					
0017	26243	KEITH A. JANES	FEE	STATE OF IOWA					
				0.93 WD ACRE					
0018	26244	DON SIMPSON	FEE	STATE OF IOWA					
		CAROLYN SIMPSON	FEE	0.19 WD ACRE					
0019	26245	DAVID R. GEIL	FEE	STATE OF IOWA					
		CAROL M. GEIL	FEE	0.83 WD ACRE					
0020	26246	KERN FAMILY TRUST	FEE	STATE OF IOWA					

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

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CONSTRUCTION NO.:STP-092-5(46)--2C-91 ASSIGNED TO: SJD

DESCRIPTION : Ia. 92 From I-35 E. To Indianola

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
				19.07 WD ACRE					
0021	26247	HAROLD D. AMOS	FEE	STATE OF IOWA					
		MILDRED T. AMOS	FEE	1.22 WD ACRE					
0022	26248	RICHARD R. COONS	FEE	WARREN COUNTY					
		JOYE G. COONS	FEE	0.10 EASE ACRE					
				STATE OF IOWA					
				1.08 WD ACRE					
0023	26249	DOROTHY F. ABBOTT	FEE	STATE OF IOWA					
		KIM A. SILVER	FEE	0.15 WD ACRE					
0024	26250	MARJORIE E. RODGERS TRUST	FEE	WARREN COUNTY					
0024	26250			0.22 EASE ACRE					
				STATE OF IOWA					
				2.51 WD ACRE					
0025	26251	DWIGHT T. MCCORMICK	FEE	STATE OF IOWA					
				1.40 WD ACRE					
0026	26252	KEITH E. DIERCKSEN	FEE	STATE OF IOWA					
		JODY E. DIERCKSEN	FEE	0.77 WD ACRE					
0027	26253	IVAN W. ARCHER	FEE	STATE OF IOWA					
				0.25 EASE ACRE					
				4.74 WD ACRE					
0027 A	26512	IVAN ARCHER	FEE	STATE OF IOWA					
		REBBECCA SAGE	FEE	0.16 WD ACRE					
0028	26254	BILL BRUERE	FEE	STATE OF IOWA					

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R2360003 PARCEL CHECK LIST BY PROJECT NUMBER
COUNTY : WARREN PROJECT NO. :STPN-092-5(50)--2J-91 PIN: 04-91-092010-00
CONSTRUCTION NO.:STP-092-5(46)--2C-91 ASSIGNED TO: SJD
DESCRIPTION : Ia. 92 From I-35 E. To Indianola

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
		KATHY BRUERE	FEE	1.49 WD ACRE					
0028 A	26513	SHARON HAYDEN	FEE						
		NANCY JO STEVENSON	FEE						
0029	26255	GERALD D. HOLT	FEE STATE OF IOWA						
		BETTY J. HOLT	FEE	0.11 WD ACRE					
0030	26256	GREGORY A. MCCORMICK	FEE STATE OF IOWA						
		KELLI A. MCCORMICK	FEE	0.37 WD ACRE					
0031	26257	STEVEN E. WEST	FEE STATE OF IOWA						
		MARTHA A. WEST	FEE	0.91 WD ACRE					
0032	26258	HIDDEN SPRINGS, LLC.	FEE STATE OF IOWA						
				0.45 WD ACRE					
0033	26259	MICHAEL D. VANDERPOOL	FEE STATE OF IOWA						
		MARYLEE VANDERPOOL	FEE	1.51 WD ACRE					
0034	26260	RICK L. VAUGHT	FEE STATE OF IOWA						
0034	26260	MARY D. VAUGHT	FEE	1.56 WD ACRE					
0036	26262	MAYNARD J. HAYDEN	FEE STATE OF IOWA						
		SHARON L. HAYDEN	FEE	0.67 WD ACRE					
0037	26263	HIDDEN SPRING LLC.	FEE INDIANOLA CITY				1		
				4,345.00 WD SQFT			1 BARN		
			STATE OF IOWA						
				122,141.00 WD SQFT					
0038	26264	CITY OF INDIANOLA	FEE WARREN COUNTY						

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : WARREN PROJECT NO. :STPN-092-5(50)--2J-91 PIN: 04-91-092010-00

CONSTRUCTION NO.:STP-092-5(46)--2C-91 ASSIGNED TO: SJD

DESCRIPTION : Ia. 92 From I-35 E. To Indianola

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
		INDIANOLA MUNICIPAL UTILITIES	FEE	0.04 EASE ACRE					
			STATE OF IOWA						
				0.30 WD ACRE					
0039	26265	ST. THOMAS AQUINAS CATHOLIC CHURCH	FEE INDIANOLA CITY						
				1,412.00 WD SQFT					
			STATE OF IOWA						
				1,789.00 EASE SQFT					
0040	26266	JAN MCCORD HALE	FEE INDIANOLA CITY						
		WILLIAM M. HALE	FEE	7,387.00 WD SQFT					
		ROBIN R. EYBERG	FEE STATE OF IOWA						
				72,071.00 EASE SQFT					
				65,203.00 WD SQFT					
0041	26267	M & W FARM SERVICE CO.	FEE INDIANOLA CITY						
				4,655.00 WD SQFT					
0042	26268	THORN TREE DEVELOPMENT CORP.	FEE INDIANOLA CITY						
				7,413.00 EASE SQFT					
				1,314.00 WD SQFT					
			STATE OF IOWA						
				54,933.00 EASE SQFT					
				35,145.00 WD SQFT					
0043	26269	MARTIN D. REYNOLDS	FEE						
		JO ELLEN REYNOLDS	FEE						
0044	26270	HERBERGER PROPERTIES, LLC.	FEE						
0045	26271	DOWNING FAMILY INVESTMENTS INC. (FEE)	FEE						
		FFI, LLC.	CP1						

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R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : WARREN PROJECT NO. :STPN-092-5(50)--2J-91 PIN: 04-91-092010-00

CONSTRUCTION NO.:STP-092-5(46)--2C-91 ASSIGNED TO: SJD

DESCRIPTION : Ia. 92 From I-35 E. To Indianola

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
0046	26272	R & R EQUIPMENT CO	FEE						
0047	26273	FIRST APOSTOLIC CHURCH	FEE						
0048	26274	JAY A. FRANZEN	FEE						
		CAMILLE TELLEEN	FEE						
0049	26275	CITY OF INDIANOLA	FEE						
0051	26277	SNYDER-GREEDY, LLC.	FEE STATE OF IOWA						
				8,910.00 EASE SQFT					
				5,809.00 WD SQFT					
0052	26278	GREENLEY/SHARP, INC.	FEE STATE OF IOWA						
				6,965.00 EASE SQFT					
				6,838.00 WD SQFT					
0053	26279	BART BUTLER	FEE STATE OF IOWA						
		LACY BUTLER	FEE	162.00 WD SQFT					
0054	26280	KEVIN A. ALSTOTT	FEE STATE OF IOWA						
		KAREN J. ALSTOTT	FEE	673.00 WD SQFT					
0055	26281	DANLEE CORP.	FEE						
0057	26283	BUGGY BATH INC. (FEE)	FEE						
		MYLES W. EASTER	CP1						
		BRENDA K. EASTER	CP1						
0058	26284	COMMUNITY STATE BANK	FEE						
0059	26285	RUSSELL L. HOUSTON	FEE						

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R2360003 PARCEL CHECK LIST BY PROJECT NUMBER
COUNTY : WARREN PROJECT NO. :STPN-092-5(50)--2J-91 PIN: 04-91-092010-00
CONSTRUCTION NO.:STP-092-5(46)--2C-91 ASSIGNED TO: SJD
DESCRIPTION : Ia. 92 From I-35 E. To Indianola

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
		SHARON K. HOUSTON	FEE						
0060	26286	SHEFFER ENTERPRISES, LLC.	FEE						
0062	26288	FIRST ASSEMBLY OF GOD	FEE	STATE OF IOWA					
0062	26288			279.00 WD SQFT					
0063	26289	CPD I CONDOMINIUMS ATTORNEY-IN-FACT-FOR	FEE						
		MARJORIE L. BARNETT	FEE						
		SHIRLEY A. ANDREW	FEE						
		LOWELL&PATRICIA WILKINSON	FEE						
0063 A	26544	WARREN LODGE #53 AF AM	FEE						
0064	26290	WARREN COUNTY FAIR ASSOC.	FEE						

CITY of INDIANOLA
7,413.00 EASEMENT SQFT
19,113.00 WARRANTY DEED SQFT

COUNTY of WARREN
0.64 EASEMENT ACRES

STATE OF IOWA
0.47 EASEMENT ACRES
144,668.00 EASEMENT SQFT
48.98 WARRANTY DEED ACRES
236,250.00 WARRANTY DEED SQFT
0.52 EXCESS ACRES

62 TOTAL PARCELS ON PROJECT

Sta. 258+34.35
2' X 2' X 46.0' RCB W/ 30" Conc Pipe Extensions
D.A. = 2 Ac - R

Lincoln TWP.
T-76N R-24W
SEC. 29

SCS PI Sta 264+10.92
Δ = 35° 10' 54.09" (LT)
Theta = 2° 59' 45.09"
Ls = 160.00
Ts = 565.29
Es = 75.79
P = 0.70
K = 79.99
Xc = 159.96
Yc = 2.79
LT = 106.68
ST = 53.35
LC = 159.98

Curve Data
Δ = 29° 11' 23.92" (LT)
T = 398.39
L = 779.48
R = 1,530.00
E = 51.02

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

(2) HAROLD HEISEY

257+80±℄ 285'
257+99±℄ 300'
258+32±℄ 195'
258+54±℄ 205'

258+00±℄ 250'
2558+50±℄ 140'(ExCorner)

(1) DARYL L. WILLIAMS

257+00 ℄ 200'
255+65±℄ 50'
Prop. 36" Uncl. Ent. Pipe
255+80 ℄ 95'

(1) DARYL L. WILLIAMS
258+75 ℄ 199'±PropR/W
259+06±℄ 140'(ExCorner)

PERMANENT EASEMENT FOR ACCESSWAY
TEMPORARY EASEMENT TO SHAPE

Prop. 87' Prop. Jct. Type "C" Ent. (ENT258)

18" X 45.0' C.M.P. (REMOVE)
Prop. 18" Uncl. Ent. Pipe

(3) IOWA STATE SAVINGS BANK (FEE)
TIM WORTHINGTON & JEAN ENTZ (CP)

PERMANENT EASEMENT FOR ACCESSWAY
260+45±℄ 145'
260+44±℄ 100'
TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

261+80 ℄ 150'
262+25 ℄ 100'
265+27±℄ 100'

(8) NICK D. & BETH A. ADAMS

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

266+65 ℄ 140'
267+00 ℄ 100'
Prop. 18" Uncl. Ent. Pipe
266+40 ℄ 155'
266+00 ℄ 140'

(9) SCOTT R. & KIMBERLY A. WILSON

270+52±℄ 130'
270+53±℄ 90'
Jct. Ent. 96" Pipe (ENT270)

POT Sta 255+00.00
255
(Close)
Sta 258+46.63
IA 92(ML092)
Sta 260+05.63
(ENT259)
CONCENTRIC
15" X 40.0' C.M.P. (REMOVE)
(C Close)
Sta 254+25.23
Sta 267+36.11
(ENT269)
15" X 20.0' C.M.P.
18" X 45.0' C.M.P.
21" X 21.0' C.M.P. (REMOVE)
Sta 268+38.46

Sta. 256+50.00
Begin Full Width Paving

POC STA 258+87.00 ML092
= POT STA 1258+87.00 SRKENNEDY
POT STA 1258+86.95 SRKENNEDY

256+41±℄ 50'
258+10 ℄ 95'

KENNEDY ST

18" X 124.0' C.M.P.
PI Sta 264+04.03

268+00 ℄ 135'
269+00 ℄ 225'

TEMPORARY EASEMENT TO REMOVE BUILDING

265+50 ℄ 135'
263+28±℄ 95'

For Mainline Details Refer to Sheet No. D.2

Sta. 258+99.86, 41.76 Rt.
18" X 45.0' Conc Pipe
D.A. = 1 Ac - R

(4) THE TRUSTEES OF CENTER CHAPEL METHODIST EPISCOPAL CHURCH aka CENTER CHAPEL UNITED METHODIST CHURCH OF INDIANOLA

260+25 ℄ 100'

18" X 26.0' C.M.P.

LARRY F. & MOLLY M. BOWLIN

18" X 96.0' C.M.P.
15" X 49.0' C.M.P.

(4) THE TRUSTEES OF CENTER CHAPEL METHODIST EPISCOPAL CHURCH aka CENTER CHAPEL UNITED METHODIST CHURCH OF INDIANOLA

(7) ELMER E. TAYLOR

0 50 FEET

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.1

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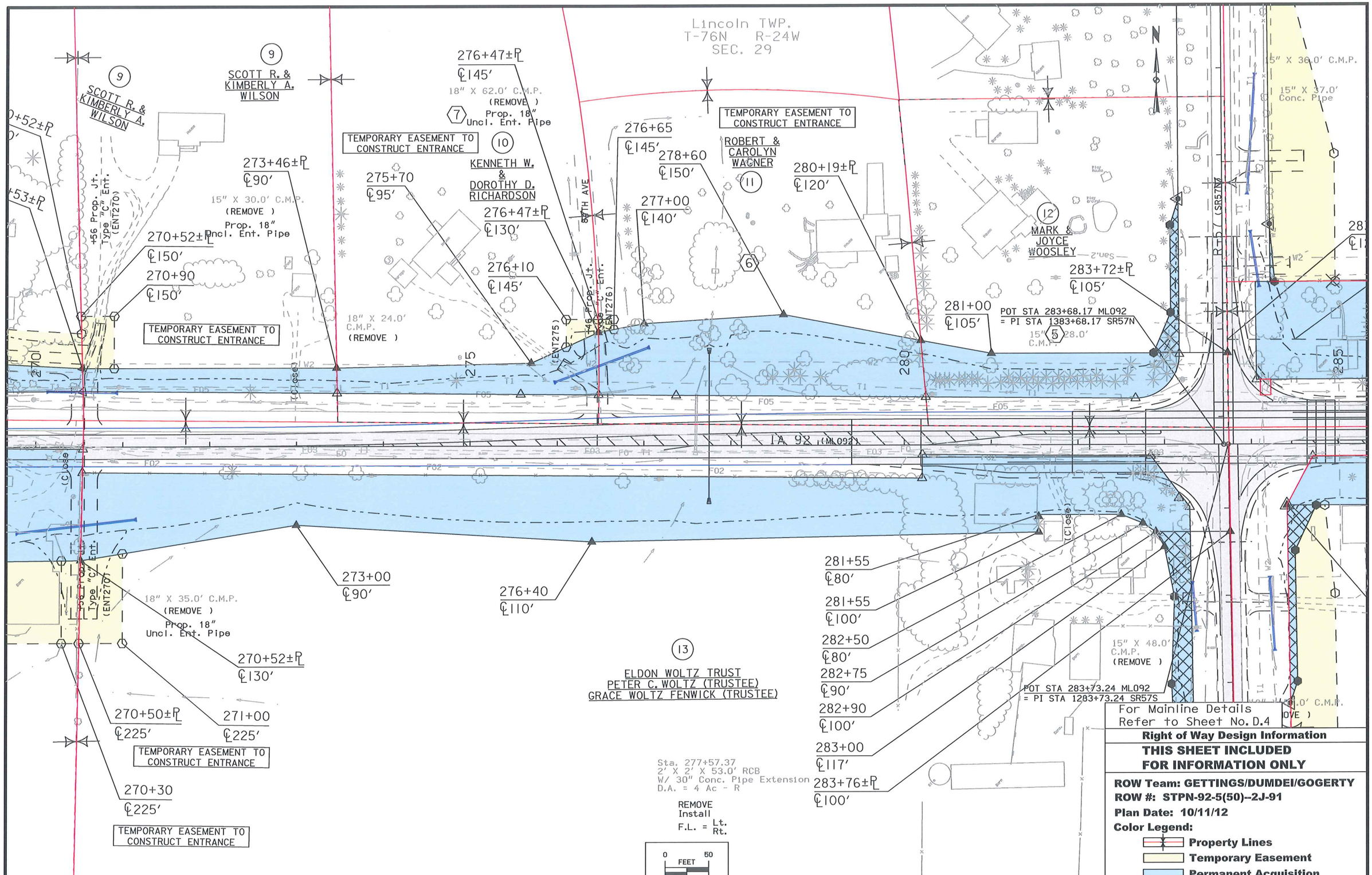

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.2

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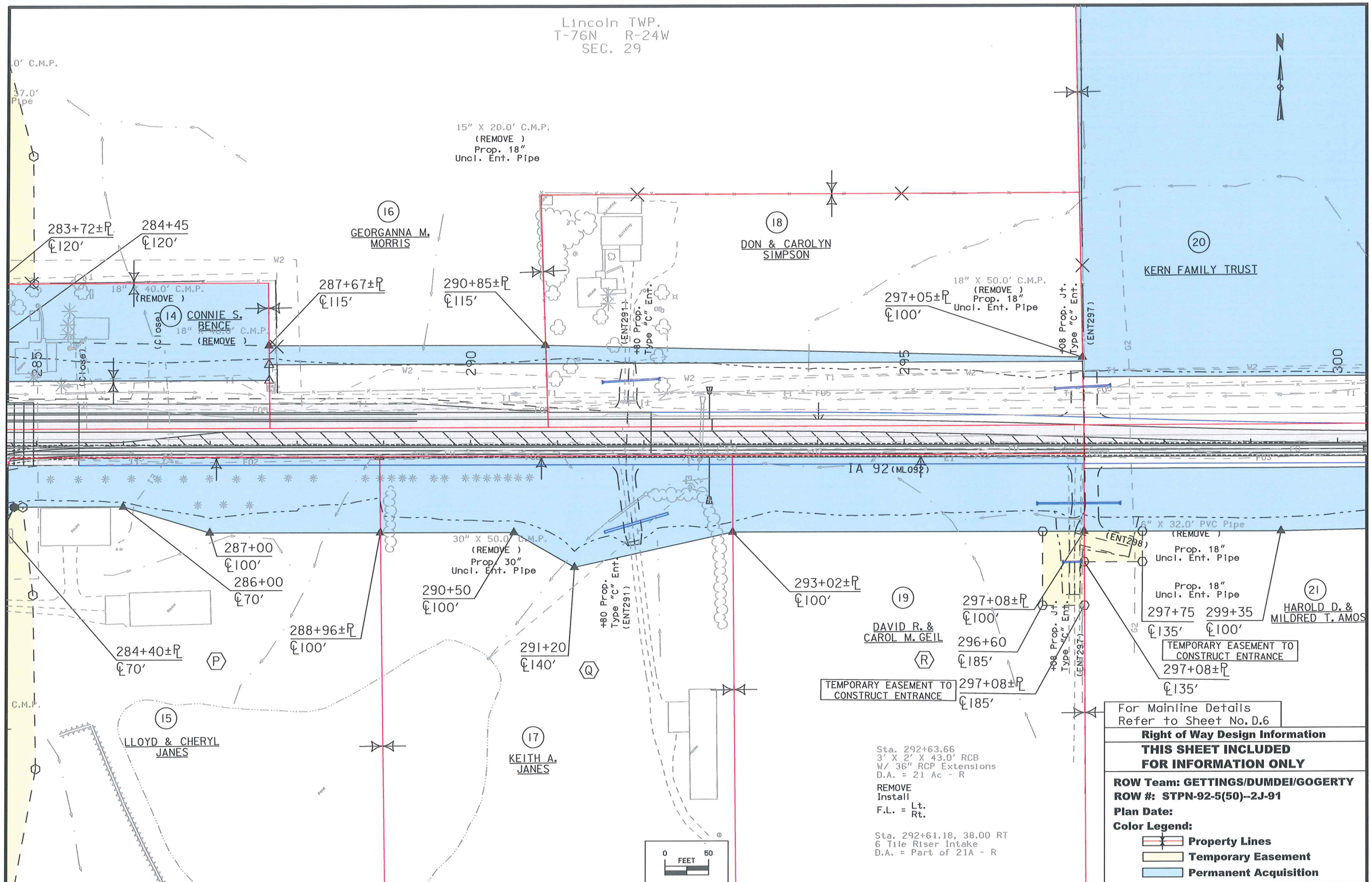

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.3

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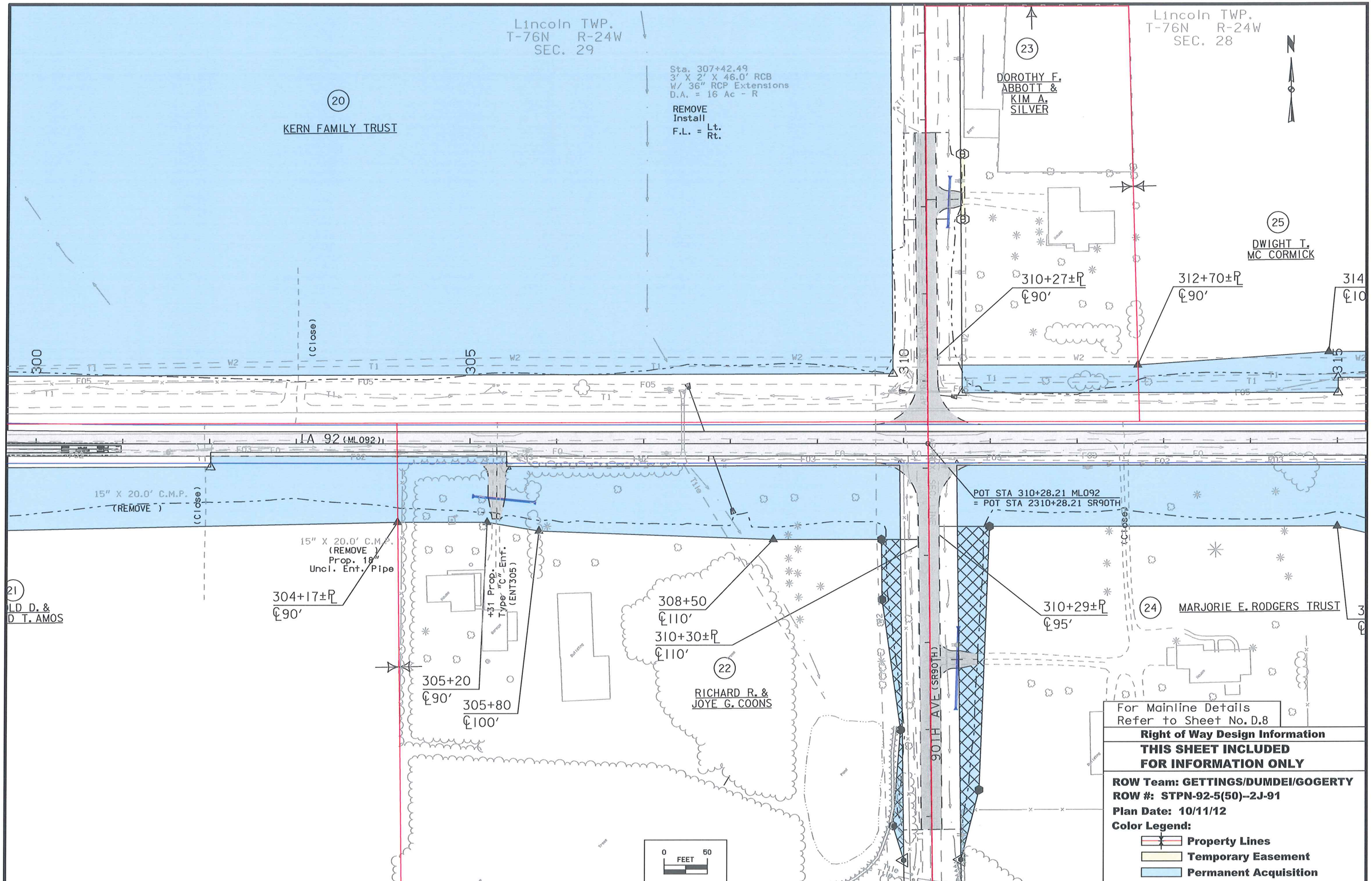

For Mainline Details
Refer to Sheet No. D.8

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.4

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Lincoln TWP.
T-76N R-24W
SEC. 28

Sta. 315+86.80
2' X 2' X 46.0' RCB
W/ 30" RCP Extensions
D.A. = 6 Ac - R

REMOVE
Install
F.L. = Lt. / Rt.

25 DWIGHT T. MC CORMICK

12" X 20.0' C.M.P.
(REMOVE)
Prop. 18"
Uncl. Ent. Pipe

+55 Prop. Type "C" Ent. (ENT323)

Sta. 329+73.63
2' X 2' X 47.0' RCB
W/ 30" Conc. Pipe Extension
D.A. = 8 Ac - F

REMOVE
Install
F.L. = Lt. / Rt.

25 DWIGHT T. MC CORMICK

314+90
℄105'

315

320

325

330

W2 T1 F05 F0 F02 F03

IA 92 (ML092)

18" X 15.0' C.M.P.
(REMOVE)

TRUST

315+00
℄95'

316+25
℄125'

319+00
℄120'

(ENT322)

323+56±℄
℄110'

+55 Prop. Jt. Type "C" Ent. (ENT323)

(Close)

18" X 48.0' C.M.P.
(REMOVE)

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

324+00
℄235'

324+25
℄235'

326+83±℄
℄110'

15" X 20.0' C.M.P.
(REMOVE)

15" X 16.0' Conc. Pipe (U.A.C.)

329+00
℄130'

27 IVAN W. ARCHER

330+
℄150

24 MARJORIE E. RODGERS / TRUST

26 KEITH E. & JODY E. DIERCKSEN

0 FEET 50

For Mainline Details
Refer to Sheet No. D.10

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.5

8:54:17 AM 10/15/2012 sdumdei W:\Projects\P0591998\9109201004\ROW\91092050H1.sht

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

For Mainline Details Refer to Sheet No. D.12

2' X 2' X 50.0' RCB
W/ 30" RCP Extensions
D.A. = 17 Ac - R

REMOVE
Install
F.L. = Lt. Rt.

(25) DWIGHT T. MC CORMICK

(28) BILL & KATHY BRUERE

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

340+70
℄76'±PropR/W

340+90
℄110'

(29) GERALD D. & BETTY J. HOLT

341+31±℄
℄105'

341+26±℄
℄80'

341+25±℄
℄70'

(28) BILL & KATHY BRU

344+60
℄95'

336+74±℄
℄105'

339+60±℄
℄90'

339+60±℄
℄85'

330

335

340

345

IA 92 (ML092)

STATE OF IOWA

TS Sta 337+72.34

SC Sta 339+32.34

CS Sta 342+29.48

ST Sta 343+33

ST Sta 338+79.02

18" X 23.0' C.M.P.
(REMOVE)

+15 Prop. Type "C" Ent. (ENT331)

330+85
℄150'

331+45
℄150'

332+50
℄130'

334+70
℄100'

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

339+50
℄100'

Prop. 36" Uncl. Ent. Pipe (Close)

+03 Prop. Jct. Type "C" Ent. (ENT341)

+03 Prop. Type "C" Ent. (ENT341)

340+40
℄130'

342+00
℄120'±PropR/W

18" X 57.0' C.M.P.
(REMOVE)
12" X 24.0' C.M.P.
(REMOVE)

343+75
℄130'

344+60
℄129'±℄

345+0
℄125'

341+25
℄400'

341+85
℄400'

341+55
℄545'

341+10
℄530'

Sta. 341+78.56
2' X 2' X 46.0' RCB
W/ 30" RCP Extensions
D.A. = 4 Ac - F

REMOVE
Install
F.L. = Lt. Rt.

(27) IVAN W. ARCHER

0 FEET 50

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.6

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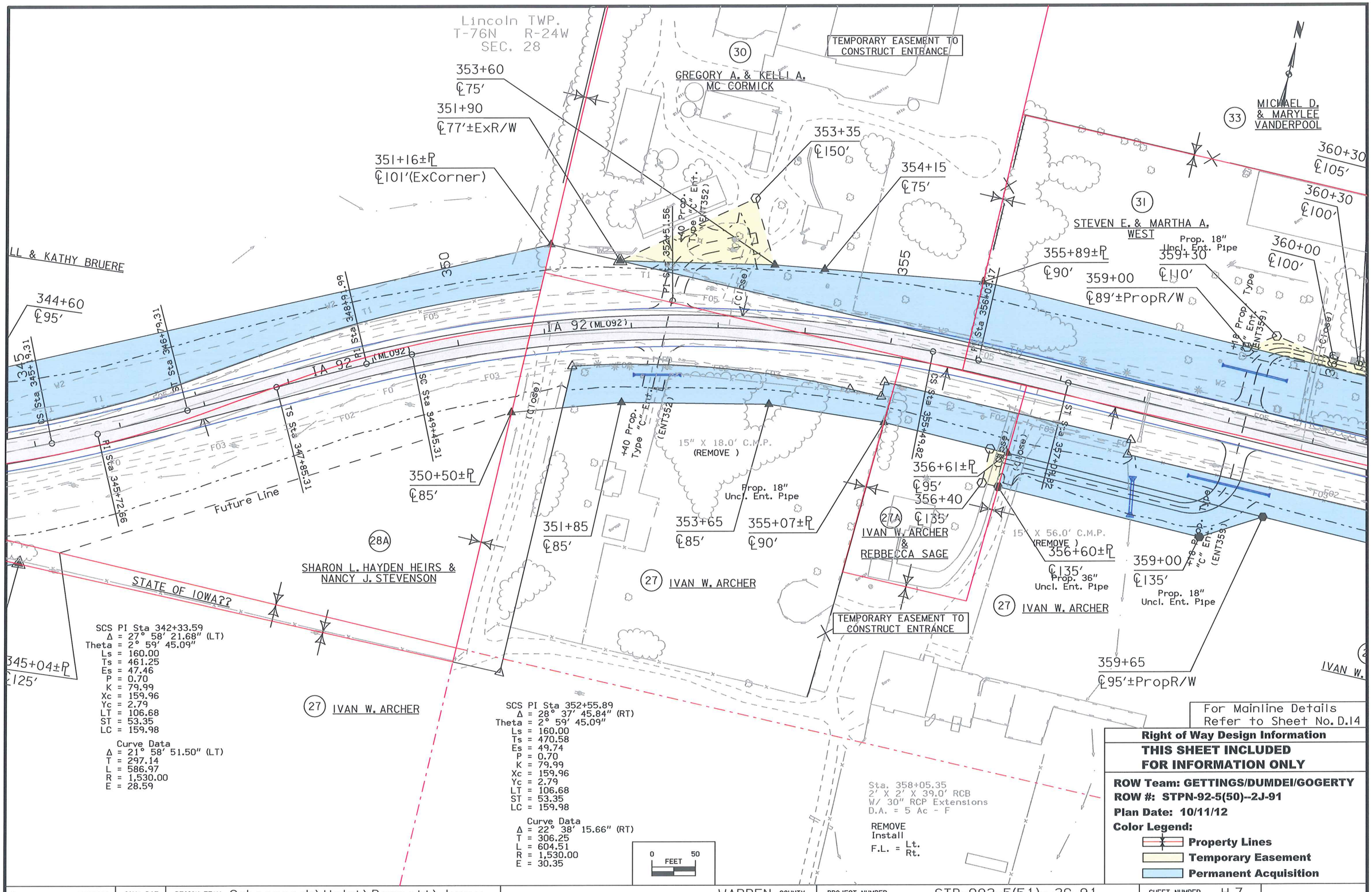

SCS PI Sta 342+33.59
Δ = 27° 58' 21.68" (LT)
Theta = 2° 59' 45.09"
Ls = 160.00
Ts = 461.25
Es = 47.46
P = 0.70
K = 79.99
Xc = 159.96
Yc = 2.79
LT = 106.68
ST = 53.35
LC = 159.98

Curve Data
Δ = 21° 58' 51.50" (LT)
T = 297.14
L = 586.97
R = 1,530.00
E = 28.59

SCS PI Sta 352+55.89
Δ = 28° 37' 45.84" (RT)
Theta = 2° 59' 45.09"
Ls = 160.00
Ts = 470.58
Es = 49.74
P = 0.70
K = 79.99
Xc = 159.96
Yc = 2.79
LT = 106.68
ST = 53.35
LC = 159.98

Curve Data
Δ = 22° 38' 15.66" (RT)
T = 306.25
L = 604.51
R = 1,530.00
E = 30.35

For Mainline Details Refer to Sheet No. D.14

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.7

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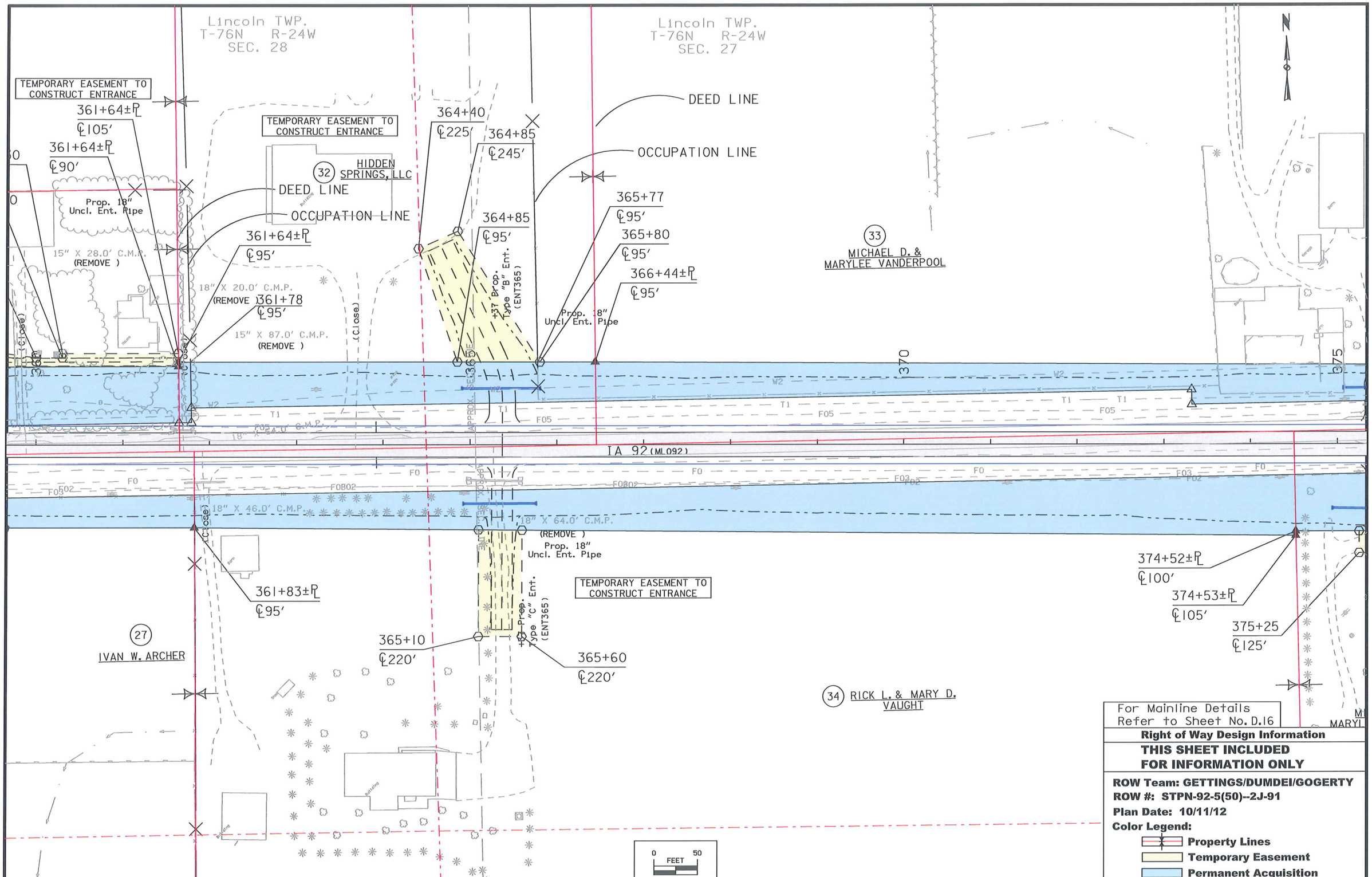

For Mainline Details Refer to Sheet No. D.16

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.8

8:54:22 AM 10/15/2012 sdumdei W:\Projects\P0591998\9109201004\ROW\91092050H1.sht

Lincoln TWP.
T-76N R-24W
SEC. 27

N

33 MICHAEL D. & MARYLEE VANDERPOOL

36 MAYNARD J. & SHARON L. HAYDEN

38 CITY OF INDIANOLA & INDIANOLA MUNICIPAL UTILITIES

37 HIDDEN SPRING LLC

T1 — 15" X 60.0' Conc. Pipe

377+64±℄ 95'

18" X 32.0' Conc. Pipe/C.M.P. (REMOVE) Prop. 18" Uncl. Ent. Pipe

377+64±℄ 90'

15" X 37.0' C.M.P. (REMOVE)

381+75 ℄100'

385+00 ℄120'

387+28±℄ 105'

18" X 56.0' Conc. Pipe (REMOVE)

389+30 ℄120'

45° Prop. Type "C" End (ENT375) (Close)

375 380 385 390

IA 92 (ML092)

18" X 41.0' C.M.P. (REMOVE)

18" X 32.0' Conc. Pipe (REMOVE) Prop. 18" Uncl. Ent. Pipe

376+50 ℄100'

375+70 ℄125'

378+50 ℄110'

377+69±℄ 110'

380+35 ℄100'

386+50 ℄100'

388+20 ℄110'

388+50 ℄115'

15" X 24.0' C.M.P. (REMOVE)

15" X 12.0' C.M.P. (REMOVE)

390+94±℄ 115'

Sta. 379+69.09
2' X 2' X 42.0' RCB
W/ 30" RCP Extensions
D.A. = 4 Ac - R

REMOVE
Install
F.L. = Lt. Rt.

0 50 FEET

For Mainline Details Refer to Sheet No. D.18

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.9

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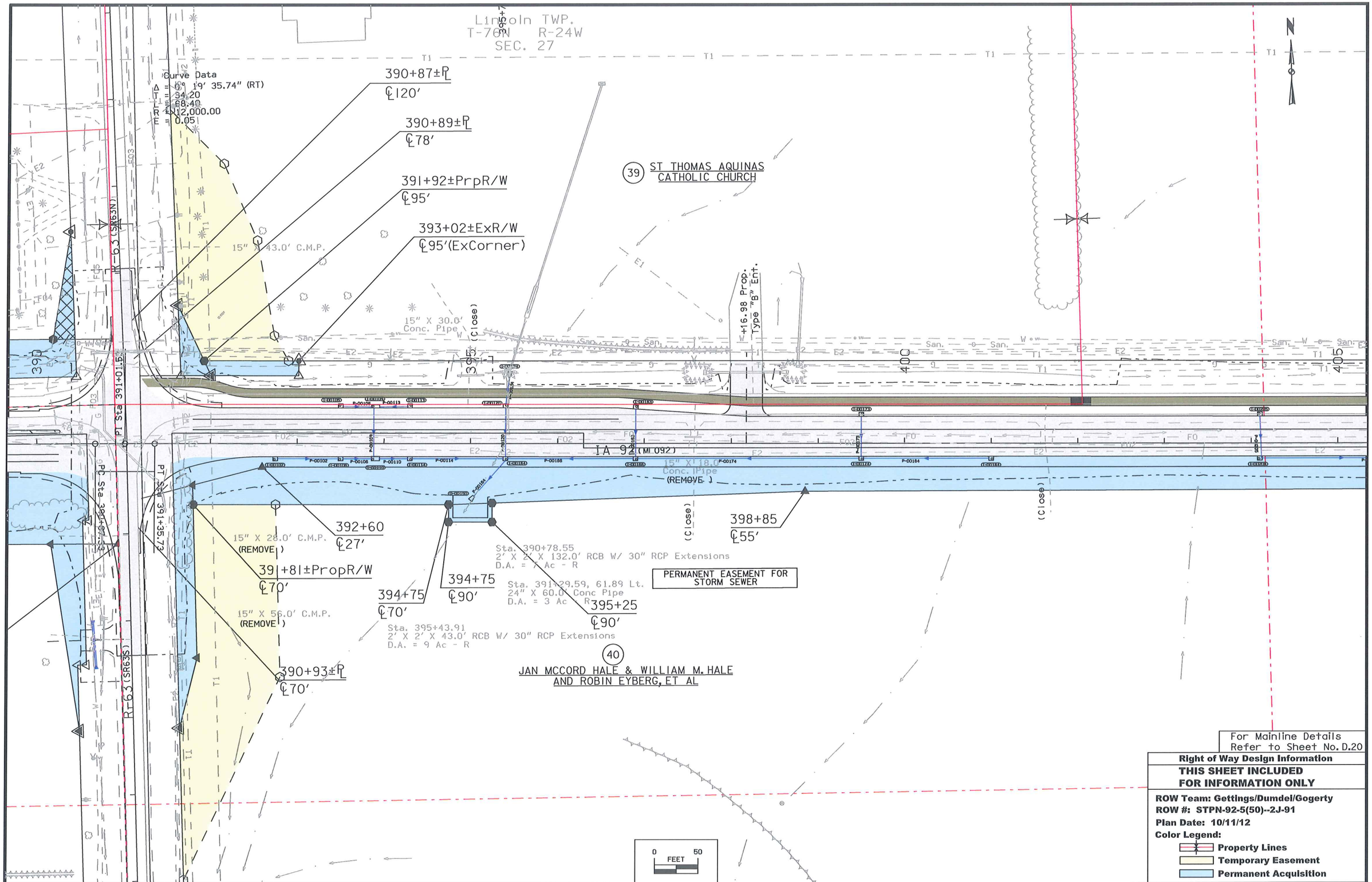

For Mainline Details Refer to Sheet No. D.20

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdei/Gogerty
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.10

8:54:25 AM 10/15/2012 sdumdei W:\Projects\P0591998\9109201004\ROW\91092050H1.sht

Lincoln TWP.
T-76N R-24W
SEC. 27

Sta. 417+03.73, 37.07 Lt.
22' X 14" X 60.0' Arch Conc Pipe
D.A. = 4 Ac - r
(Remove)

Curve Data
Δ = 0° 25' 37.45" (LT)
T = 44.72
L = 89.45
R = 12,000.00
E = 0.08

TEMPORARY EASEMENT TO SHAPE

(40)
JAN MCCORD HALE & WILLIAM M. HALE
AND ROBIN R. EYBERG

417+34±℄ 115'
416+50 ℄ 115'
415+50 ℄ 95'

418+17±Prop R/W ℄ 105'
419+81±℄ 105'

15" X 24.0' C.M.P.
(Remove)

(Cross) 15" X 48.0' C.M.P.
Remove

Y ST (SR110N)

IA 92 (ML092)

PC Sta 416+80.03

PT Sta 417+80.03

(40)
JAN MCCORD HALE & WILLIAM M. HALE
AND ROBIN R. EYBERG

416+69±Prop R/W ℄ 49'
417+38±℄ 27'
417+98±℄ 27'
418+15±Prop R/W ℄ 60'

Sta. 412+66.92, 247.41 RT
6 Tile Riser Intake
D.A. = 5A - R
(U.A.C.)

Sta. 417+30.31, 350.36 Rt
30" X 44.0' CMP
D.A. = 16 Ac - R
(Remove)

Sta. 414+54.06, 307.09 RT
6 Tile Riser Intake
D.A. = 2A - R
(U.A.C.)

0 FEET 50

For Mainline Details
Refer to Sheet No. D.22

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.11

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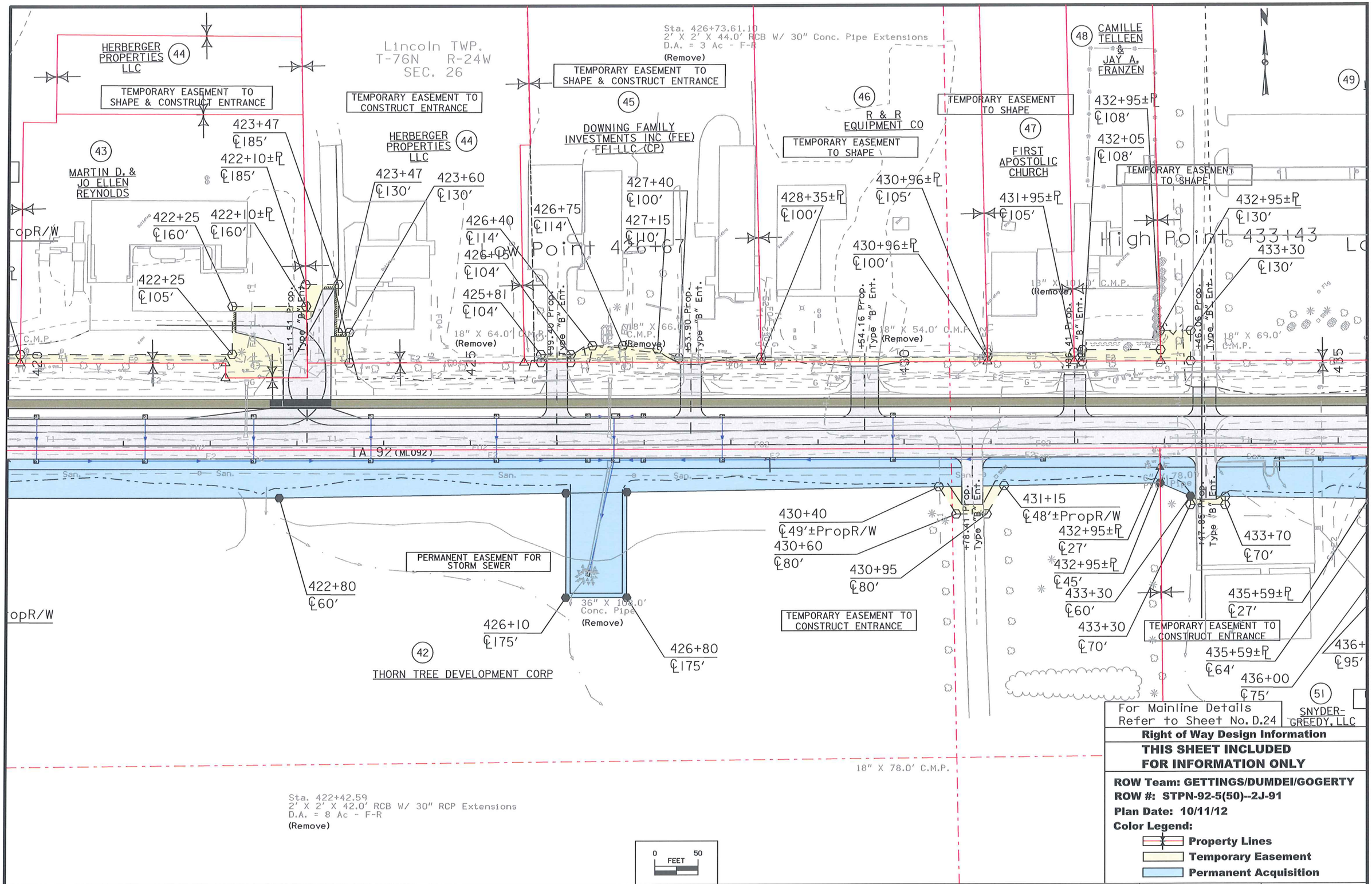

For Mainline Details Refer to Sheet No. D.24

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.12

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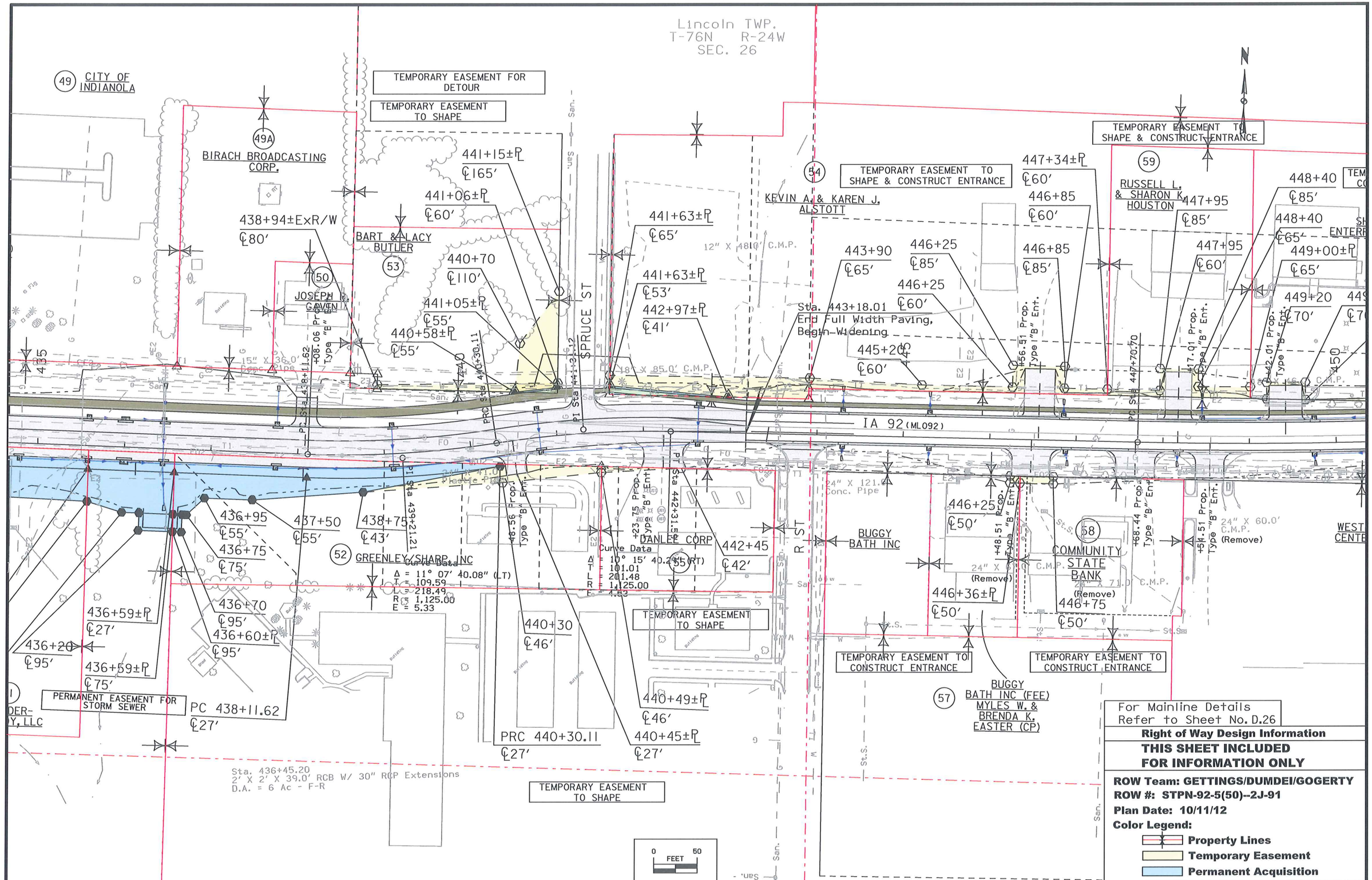

For Mainline Details Refer to Sheet No. D.26

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY

ROW #: STPN-92-5(50)--2J-91

Plan Date: 10/11/12

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.13

8:54:30 AM 10/15/2012 sdumdei W:\Projects\P0591998\9109201004\ROW\91092050H1.sht

63

CPD I CONDOMINIUMS ATTORNEY-IN-FACT
FOR JANICE WESTERLY, MARJORIE L. BARNETT,
SHIRLEY A. ANDREW AND LOWELL G. &
PATRICIA J. WILKINSON

TEMPORARY EASEMENT TO SHAPE

TEMPORARY EASEMENT TO SHAPE

TEMPORARY EASEMENT TO SHAPE & CONSTRUCT ENTRANCE

TEMPORARY EASEMENT TO SHAPE & CONSTRUCT ENTRANCE

448+40 ℄85′

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

60

TEMPORARY EASEMENT TO SHAPE

8+40

SHEFFER ENTERPRISES, LLC

449+00±℄ 65′

19+20 449+65 449+65

70′ ℄70′ ℄50′±

451+55±℄ ℄50′

452+31±℄ ℄50′

455+37±℄ ℄70′

455+30 ℄65′

454+70 ℄65′

454+45 ℄50′

62

FIRST ASSEMBLY OF GOD

452+30±℄ ℄40′

453+66±℄ ℄40′

Building

455+98±℄ ℄70′

456+05 ℄70′

456+05 ℄50′

457+24±℄ ℄50′

458+60 ℄50′

WARREN LODGE #53 AF | AM

63A

455 460

Building

459+95 ℄65′

458+60 ℄65′

458+91±℄ ℄65′

458+90±℄ ℄50′

459+95 ℄50′

460+40 ℄65′

460+40 ℄50′

461+15 ℄50′

461+15 ℄60′

461+45 ℄60′

461+60 ℄70′

64

WARREN COUNTY FAIR ASSC

465+00 ℄70′

465

S KENWOOD BLVD

SOUTH P ST

SOUTH N ST

Sta. 454+73.40

455

450

76.10 Prop. Type "B" Ent.

115.20 Prop. Type "B" Ent.

134.29 Prop. Type "B" Ent.

Sta. 465+01.01
End Widening

IA 92 (ML092)

Curve Data
Δ = 6°16′27.10" (LT)
L = 702.70
R = 5,759.23
E = 10.73

L = 701.73
R = 5,751.23
E = 10.72

451+22.49

WESTROADS CENTER LLC

Building

House House House House House House

Garage House House Building

Sag

Sta.

S

St.S.

0 50 FEET

For Mainline Details
Refer to Sheet No. D.28

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER H.14

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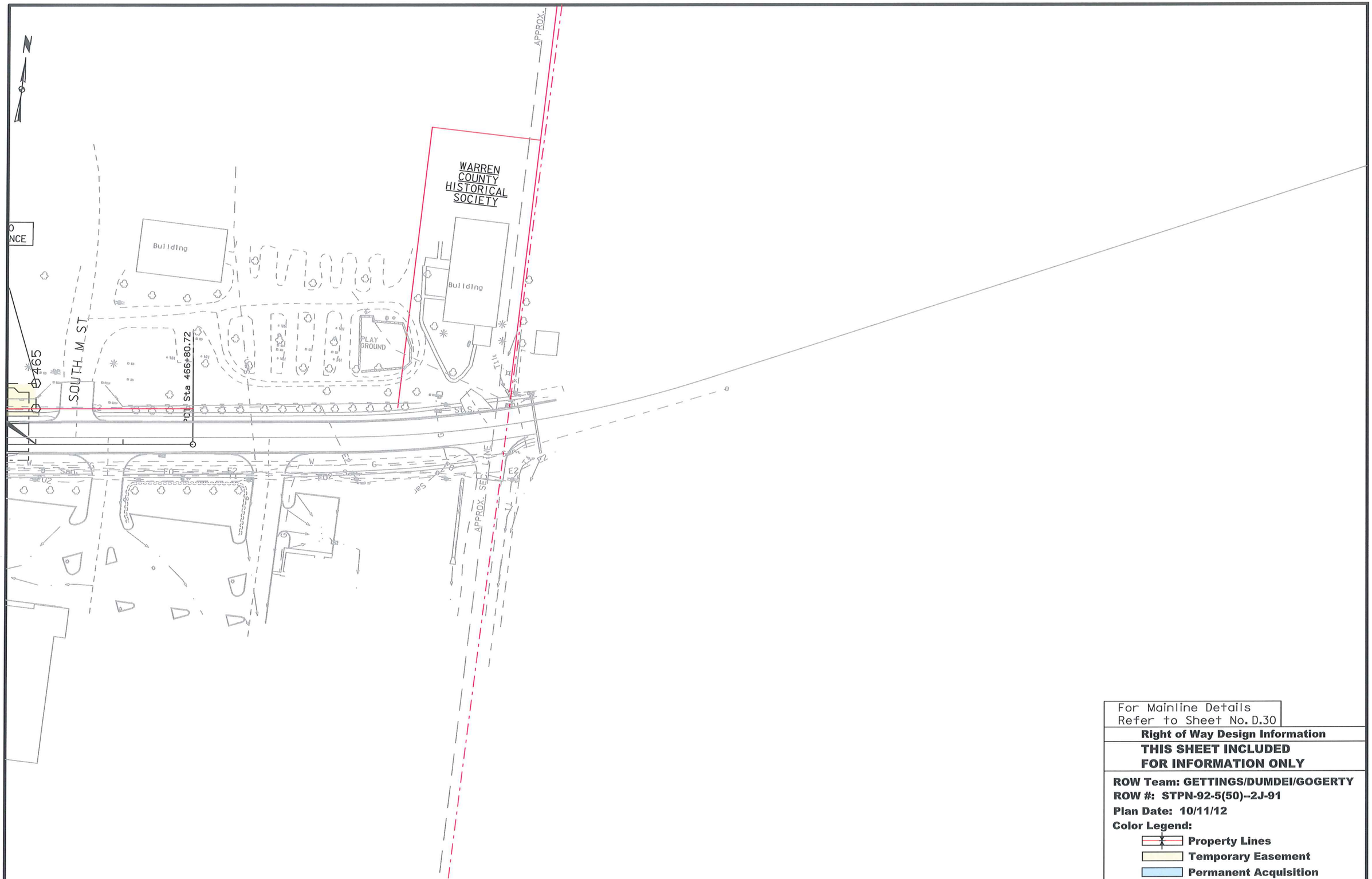


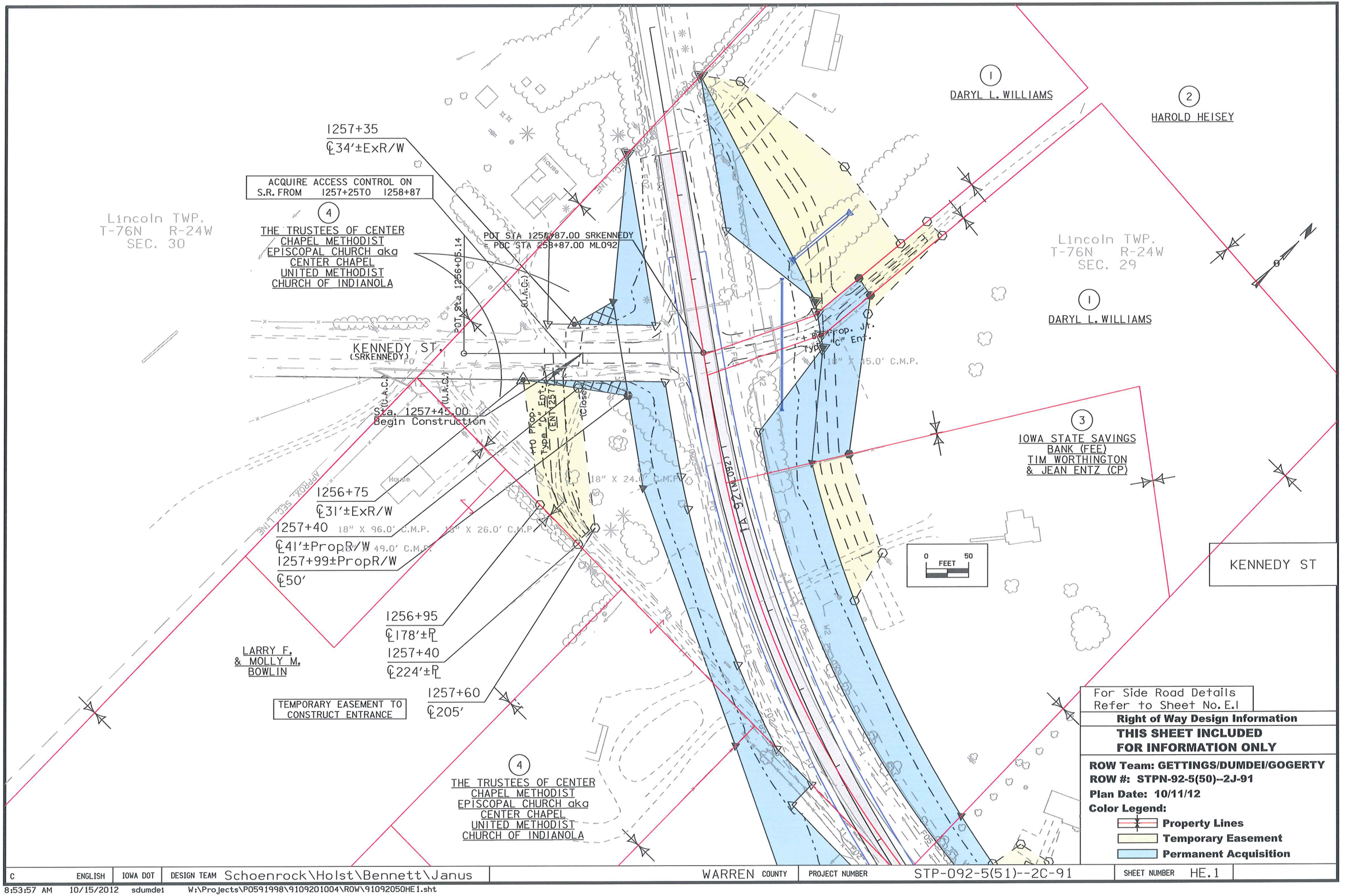
For Mainline Details
Refer to Sheet No. D.30

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:

- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**



C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER HE.1

8:53:57 AM 10/15/2012 sdumdei W:\Projects\P0591998\9109201004\ROW\91092050HE1.sht

13
ELDON WOLTZ TRUST
PETER C. WOLTZ (TRUSTEE)
GRACE WOLTZ FENWICK (TRUSTEE)

ACQUIRE ACCESS CONTROL ON
S.R. FROM 1282+61 TO 1385+30

1282+00
℄65′
1281+00
℄70′

1280+46±ExR/W
℄68′(Corner)

Lincoln TWP
T-76N R-24W
SEC

Curve Data
Δ = 19° 44′ 59.72″ (RT)
T = 88.78
L = 175.80
R = 510.00
E = 7.67
e = -2.0%

PC STA 11277+89.54 DETR57
= POT STA 1277+35.33 SR57S

Curve Data
Δ = 19° 44′ 59.72″ (LT)
T = 88.78
L = 175.80
R = 510.00
E = 7.67
e = -2.0%

Sta. 1280+60.00
Begin Construction

PI STA 1283+73.24 SR57S
= POT STA 283+73.24 ML092

15″ X 48.0′ C.M.P.
(REMOVE)
Prop. 18″
Uncl. Ent. Pipe

Prop. 24″ Type "C" Ent. (ENT 1281)

PI Sta 11278+78.32

11280

1280

PI Sta 11281+40.13

RT Sta 11281+40.13

R-57 (SR57S)

18″ X 57.0′ C.M.P.
(REMOVE)
Prop. 18″
Uncl. Ent. Pipe

Prop. 24″ Type "C" Ent. (ENT 1281)

POT STA 11284+33.25 DETR57
= POT STA 284+33.25 ML092

PRC Sta 11279+65.33

PI Sta 11280+74.11

1277+80
℄77′±R

1280+75
℄66′±R

1280+00
℄120′

1281+00
℄75′

0 FEET 50

1282+50
℄75′

1282+00
℄120′

1283+01±PropR/W
℄100′

1283+01±PropR/W
℄110′

15
LLOYD & CHERYL
JANES

TEMPORARY EASEMENT FOR
DETOUR

15A
MICHAEL D. &
CONNIE R.
COX

12
MARK &
JOYCE
WOOSLEY

1384+71±ProposedR/W
℄80′

PI STA 1283+68.17 SR57N
= POT STA 283+68.17 ML092

1385+20
℄60′

5″ X 28.0′
C.M.P.
(REMOVE)

1385

11285

Sta. 1386+06.00
End Construction

1386+20
℄60′

1386+50
℄50′±ExR/W

1280+92 Prop. 24″ Type "C" Ent. (ENT 1285)

PRC Sta 11286+80.13

PI Sta 11287+54.51

R-57 (SR57N)

11290

1390

15″ X 37.0′
Conc. Pipe
(REMOVE)
Prop. 18″
Uncl. Ent. Pipe

1281+72 Prop. 24″ Type "C" Ent. (ENT 1285)

1281+92 Prop. 24″ Type "C" Ent. (ENT 1286)

PRC Sta 11287+74.31

15″ X 36.0′ C.M.P.
(REMOVE)
Prop. 18″
Uncl. Ent. Pipe

1390+00
℄53′±ExR/W

Curve Data
Δ = 20° 10′ 50.98″ (RT)
T = 90.76
L = 179.63
R = 510.00
E = 8.01
e = -2.0%

Curve Data
Δ = 19° 37′ 05.90″
T = 88.18
L = 174.63
R = 510.00
E = 7.57
e = -2.0%

Sta. 283+86, 712.79 Lt.
24″ X 69.0′ Conc Pipe
D.A. = 4 Ac - R
(U.A.C.)

PT STA 11290+40.39 DETR
= POT STA 1389+67.34 SR
(U.A.C.)

Sta. 283+94.88, 499.59 Lt.
24″ X 69.0′ Conc Pipe
D.A. = 4 Ac - R
(U.A.C.)

0 FEET 50

1385+54±R
℄60′

1385+53±R
℄130′

16
GEORGANNA M.
MORRIS

1386+20
℄54′±ExR/W

1387+00
℄130′

R-57

TEMPORARY EASEMENT FOR
DETOUR

11A
CONNIE S.
BENCE

Fil1

Fil2

W2

For Side Road Details
Refer to Sheet No. E.2

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER HE.2

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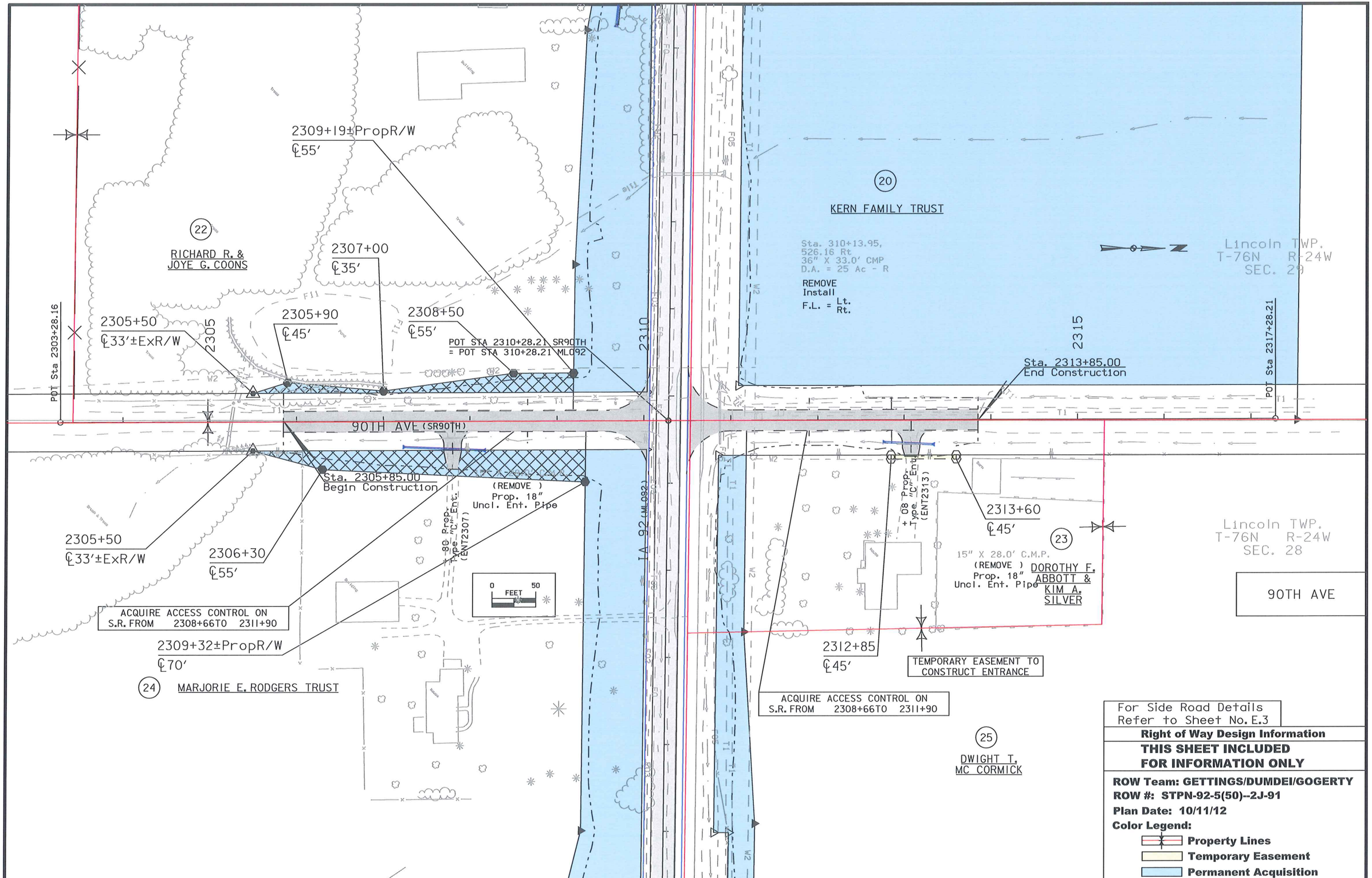

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER HE.3

8:54:00 AM 10/15/2012 sdumdei W:\Projects\P0591998\9109201004\ROW\91092050HE1.sht

ACQUIRE ACCESS CONTROL ON
S.R. FROM 3389+42 TO 3391+03

37 HIDDEN SPRING LLC

3389+91±PropR/W
℄90′

3387+75
℄62′±ExR/W

Prop. 18" Uncl. Ent. Pipe

Prop. "C" Ent.

Sta. 3389+00.00
Begin Construction

POT Sta 3384+70.68

3385

3390

POT Sta 3391+03.42

POT Sta 3391+88.35

38
CITY OF
INDIANOLA &
INDIANOLA MUNICIPAL
UTILITIES

3392+27±PropR/W
℄80′

3393+50
℄55′±ExR/W

Sta. 3393+05.00
End Construction

ACQUIRE ACCESS CONTROL ON
S.R. FROM 3389+42 TO 3391+03

3395

POT Sta 3398+03.35

R-63 (SR63S)

R-63 (SR63N)

1839

POT STA 3391+03.42 SR63S
= POT STA 391+03.42 ML092

IA 92 (ML092)

POT STA 3391+03.95 SR63N
= POT STA 391+03.95 ML092

3386+00
℄53′±ExR/W

3387+75
℄53′±ExR/W

3388+55
℄75′

3388+30
℄170′

3390+53±PropR/W
℄75′

3390+28±PropR/W
℄170′

3391+90±PropR/W
℄190′

3391+77±ExR/W
℄100′

3392+20
℄175′

3392+60
℄65′±ExR/W

3393+30
℄160′

3394+20
℄125′

3394+85
℄65′±ExR/W

TEMPORARY EASEMENT FOR DETOUR

TEMPORARY EASEMENT FOR DETOUR

0 FEET 50

R-63

40
JAN MCCORD HALE & WILLIAM M. HALE
AND ROBIN EYBERG, ET AL

39 ST THOMAS AQUINAS CATHOLIC CHURCH

For Side Road Details
Refer to Sheet No. E.4

+05 Lt.
964.90

+1.35% Lt. Ditch Grade

+75 Rt.
969.51

+20 Rt.
967.40

+1.25% Rt. Ditch Grade

+05 Rt.
968.47

+0.35% Lt.

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER HE.4

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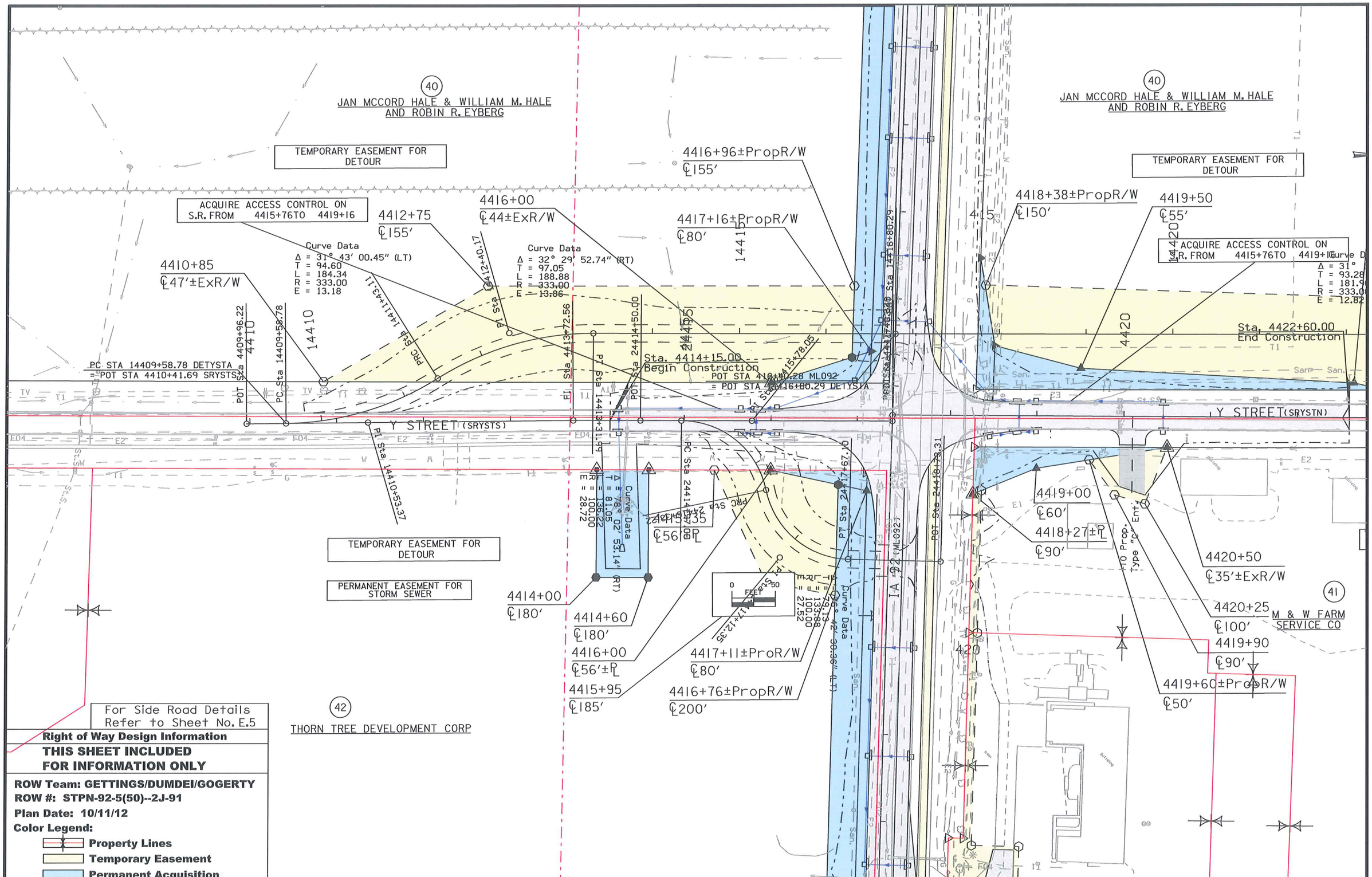

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER HE.5

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40
MCCORD HALE & WILLIAM M. HALE
AND ROBIN R. EYBERG

ASEMENT FOR
OUR

40
JAN MCCORD HALE & WILLIAM M. HALE
AND ROBIN R. EYBERG

TEMPORARY EASEMENT FOR
DETOUR

4412+75
℄155′

0.45″ (LT)

4416+00
℄44±ExR/W

4416+96±PropR/W
℄155′

4417+16±PropR/W
℄80′

4418+38±PropR/W
℄150′

4419+50
℄55′

4422+65
℄40′

4423+00
℄32′±ExR/W

4424+00
℄135′

4426+00
℄33′±ExR/W

Curve Data
Δ = 32° 29′ 52.74″ (RT)
T = 97.05
L = 188.88
R = 333.00
E = 13.86

ACQUIRE ACCESS CONTROL ON
R. FROM 4415+76 TO 4419+

Curve Data
Δ = 31° 17′ 50.18″ (RT)
T = 93.28
L = 181.90
R = 333.00
E = 12.82

PRC Sta 14411+43.11

PI Sta 14412+40.17

PI Sta 14413+72.56

PI Sta 14414+50.00

Sta. 4414+15.00
Begin Construction

POT STA 4416+80.28 ML092
= POT STA 4416+80.29 DETYSTA

PRC Sta 14415+78.05

PRC Sta 14416+80.29

Sta. 4422+60.00
End Construction

PI Sta 14423+19.27

PI Sta 4424+09.38

PC Sta 14422+25.96

PRC Sta 14424+07.89

PI Sta 14425+88.36

Y STREET (SRYSTS)

Y STREET (SRYSTN)

PI Sta 14410+53.37

PI Sta 14413+31.59

Curve Data
Δ = 78° 02′ 53.14″ (RT)
T = 81.05
L = 136.22
R = 100.00
E = 28.72

PRC Sta 24414+50.00

PRC Sta 24414+50.00

4415+35
℄56′±R

PI Sta 14417+12.35

Curve Data
Δ = 42° 30′ 39″ (LT)
T = 77.61
L = 133.88
R = 100.00
E = 27.52

PT Sta 24416+80.29

POT Sta 24418+79.31

4419+00
℄60′

4418+27±R
℄90′

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

Curve Data
Δ = 31° 03′ 05.97″ (LT)
T = 92.51
L = 180.47
R = 333.00
E = 12.61

4420+50
℄35′±ExR/W

4420+25
℄100′

M & W FARM
SERVICE CO

41

Y Street

4419+90
℄90′

4419+60±PropR/W
℄50′

MPORARY EASEMENT FOR
DETOUR

ANENT EASEMENT FOR
STORM SEWER

4414+00
℄180′

4414+60
℄180′

4416+00
℄56′±R

4415+95
℄185′

4417+11±ProR/W
℄80′

4416+76±PropR/W
℄200′

DEVELOPMENT CORP

For Side Road Details
Refer to Sheet No. E.5

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/DUMDEI/GOGERTY
ROW #: STPN-92-5(50)--2J-91
Plan Date: 10/11/12
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER HE.6

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108-23A
08-01-08

TRAFFIC CONTROL PLAN

IA 92 Rural Section - From just west of R-57 east to R-63.
IA 92 will be closed to through traffic between R-57 and R-63. Traffic will be detoured 6 miles north on R-57, 2 miles east on G-24, and 6 miles south on R-63. Local access will be provides during construction.

IA 92 Urban Section - From R-63 east to Kenwood Boulevard.
Two-way traffic will be maintained on IA 92 at all times during construction. All entrances will be maintained during construction.

R-57
Northbound and southbound traffic will be maintained during construction.

90th Avenue.
90th Avenue will be closed to through traffic at IA 92 during construction.

R-63
Northbound and southbound traffic will be maintained during construction.

110 Street
Northbound and southbound traffic will be maintained during construction.

South Spruce Street
Northbound and southbound traffic will be maintained during construction.

R Street
Northbound and southbound traffic will be maintained during construction.

South Kenwood Boulevard
Northbound and southbound traffic will be maintained during construction.

102-15
08-01-08

TABULATION OF SPECIAL EVENTS

Event	Location	Date
Event Name	Event Location	Event Date

108-26A
08-01-08

STAGING NOTES

2014 Construction Season

Stage 1
Traffic Control
IA 92 to be closed to through traffic from R-57 east to R-63. Local access only will be provided on existing IA 92 in this section.
Through traffic will be detoured north on R-57, east on G-24, and south on R-63.
Through traffic will be maintained on existing IA 92 between R-63 and S. Kenwood Boulevard.

Construction
Grade and pave EB/WB IA 92 from R-57 to R-63. Grade and pave the south 2 lanes of IA 92 from R-63 to S. Kenwood Boulevard.

Stage 2
Traffic Control
IA 92 traffic to be placed on the completed IA 92 pavement.

Construction
Grade and pave remaining north lane in urban section. Construct recreational trail along both the rural and urban section.

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Med	(237)	Future Proposed Pavement Shading

CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

- Pavement Removal
- Proposed Granular Subbase
- Proposed Special Backfill
- Temporary Barrier Rail
- Proposed Granular Shoulder
- Temporary Shoulder
- Existing Shoulder Strengthening
- Permanent Barrier Rail
- Channelizing Device

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Magenta	(5)	Pavement Marking Call Outs
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Yellow	(4)	Pavement Markings, Yellow
Off White	(254)	Pavement Markings, White

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Proposed Granular Surface Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Light	(236)	Proposed Grading Limits Shading
Pink, Dark	(13)	Proposed MSE or CIP Wall Shading
Red	(3)	Proposed Bridge Shading and Sign Trusses
Black w/Gray, Light Fill	(0,48)	Previously Constructed Structure

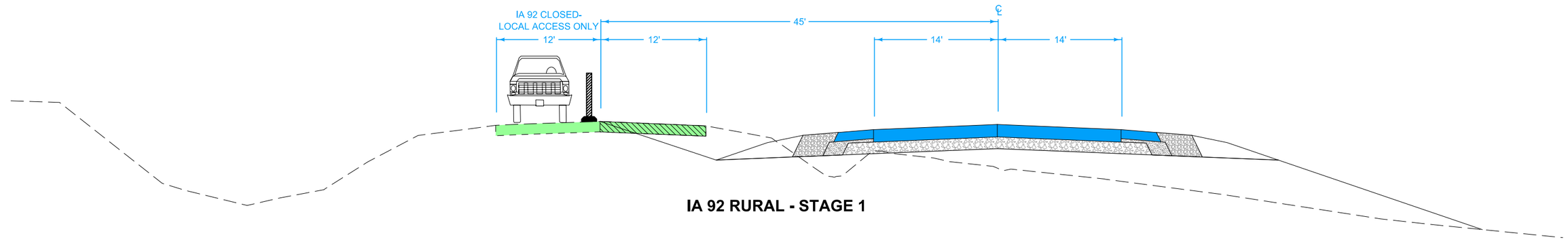
PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

- Channelizing Device
- Drum
- Temporary Lane Separator
- Tubular Marker
- Channelizer Marker
- Concrete Barrier Marker
- Delineator
- Temporary Barrier Rail
- Pavement Removal
- Crash Cushion
- Traffic Signal
- Flagger
- Temporary Floodlighting
- Traffic Sign
- Type III Barricade
- Type A Warning Light
- Direction of Traffic
- Safety Closure

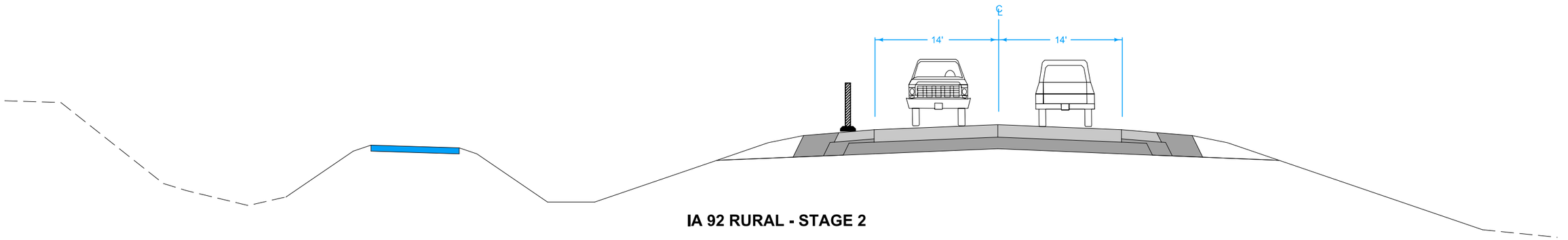
NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

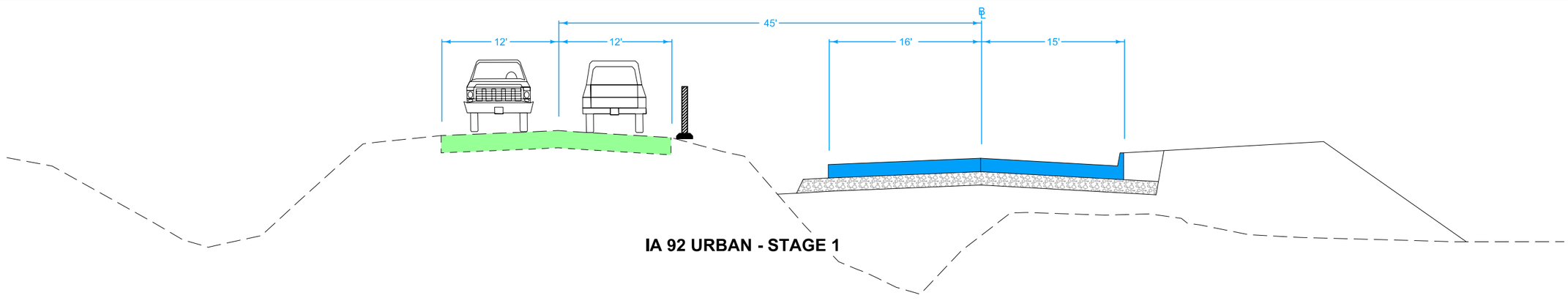
(COVERS SHEET SERIES J)



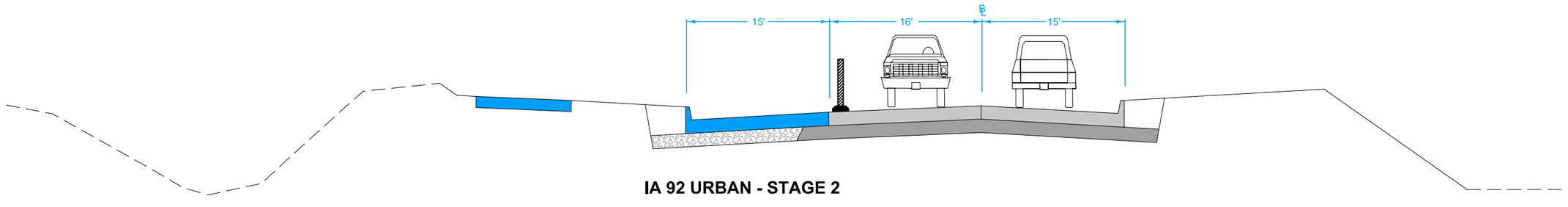
IA 92 RURAL - STAGE 1



IA 92 RURAL - STAGE 2



IA 92 URBAN - STAGE 1



IA 92 URBAN - STAGE 2

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER J.3	X

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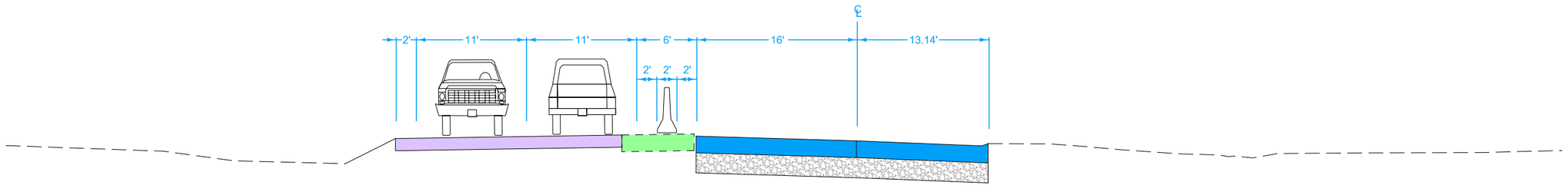
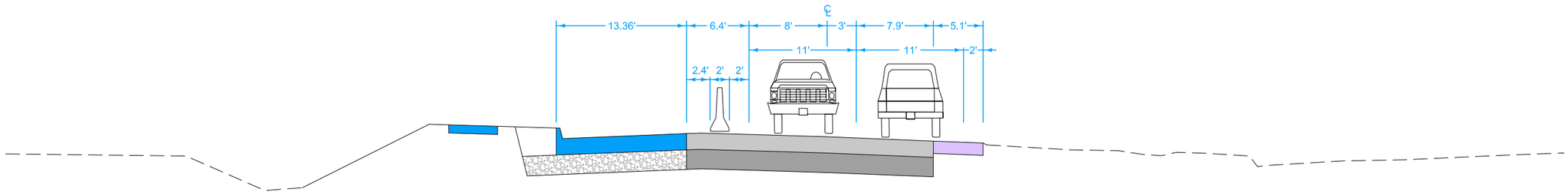
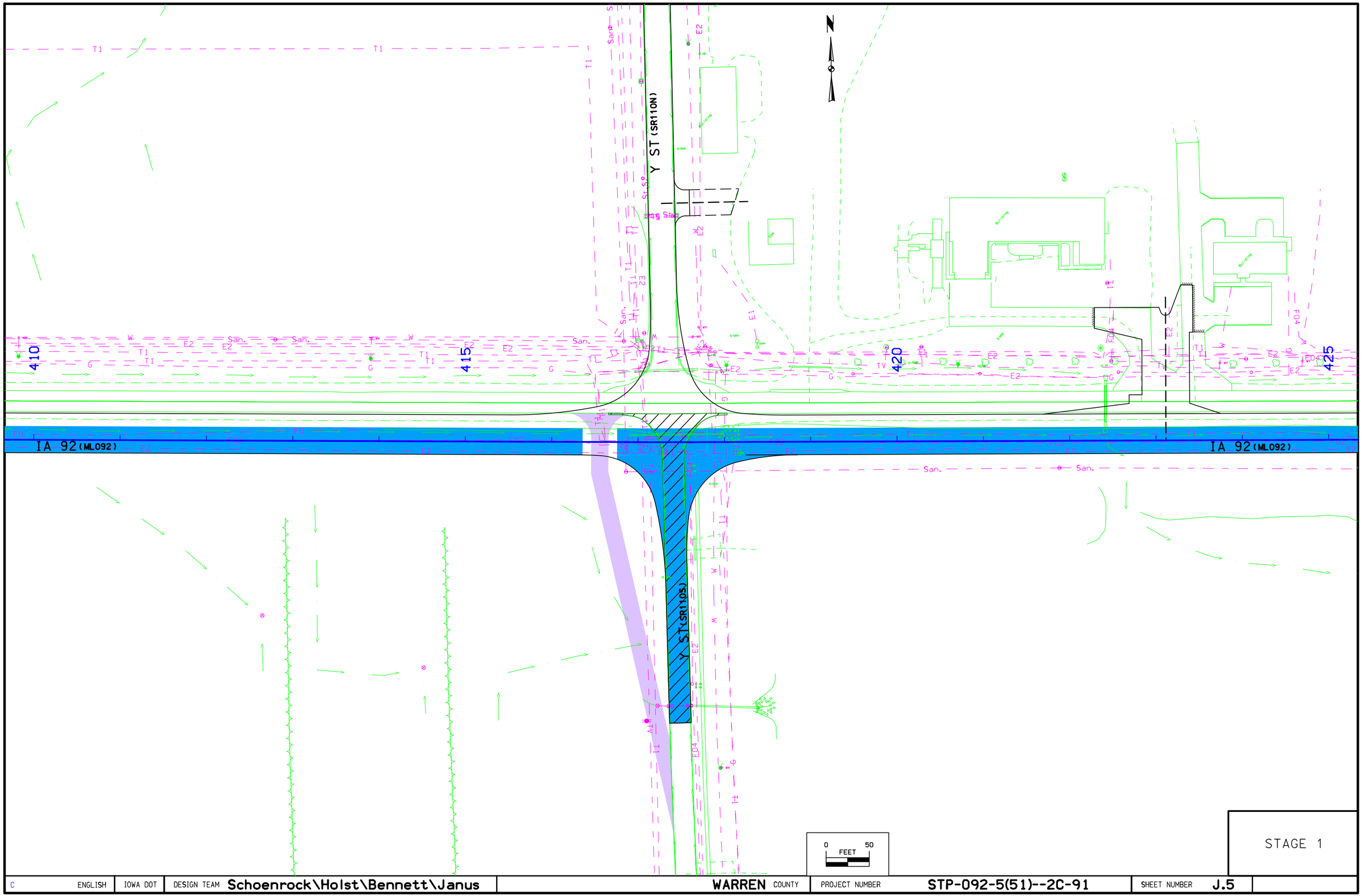


IA 92 URBAN - STAGE 1
STA 442+00.00



IA 92 URBAN - STAGE 2A
STA 443+00.00



STAGE 1

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER J.5

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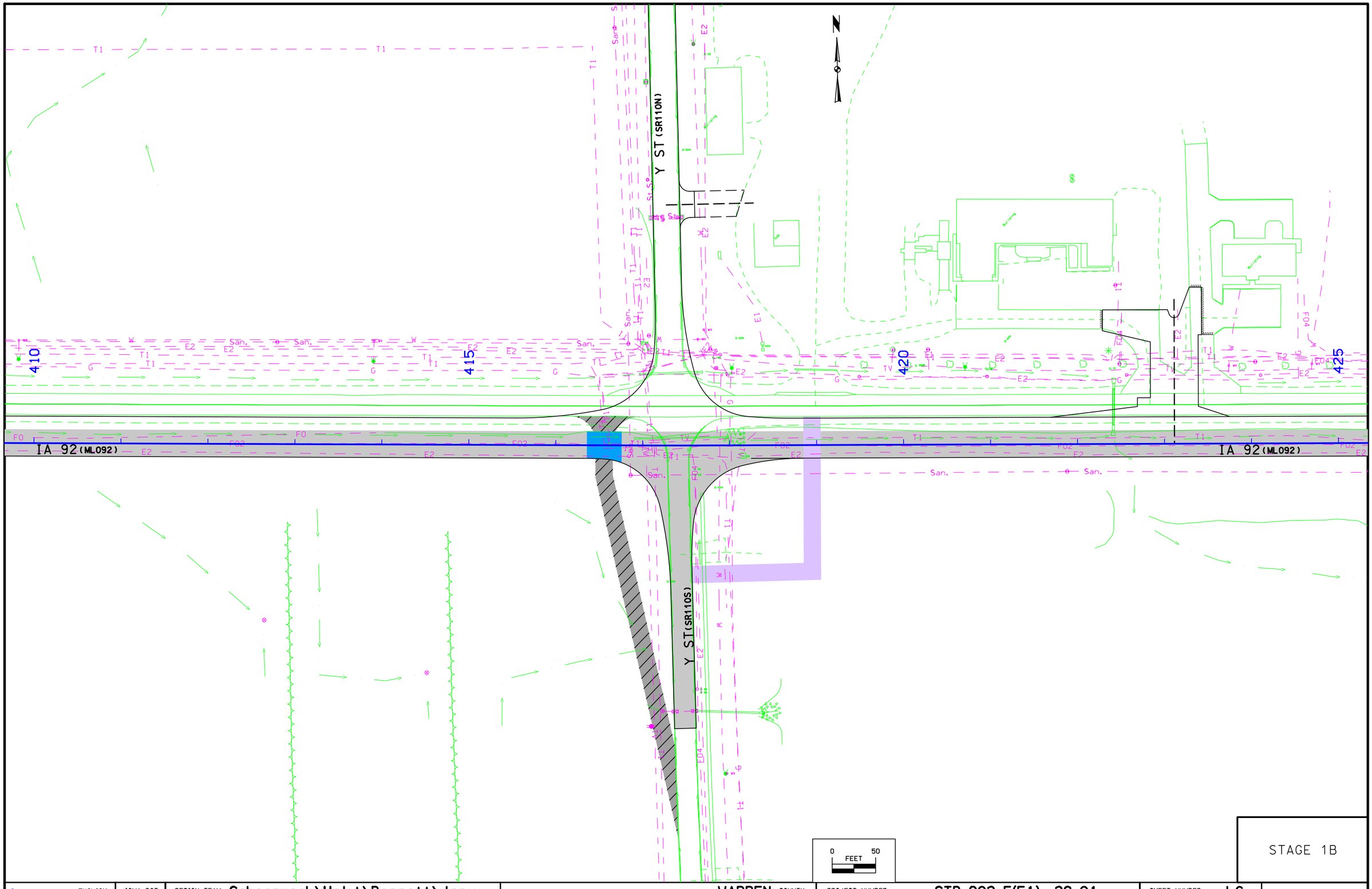

STAGE 1B

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER J.6

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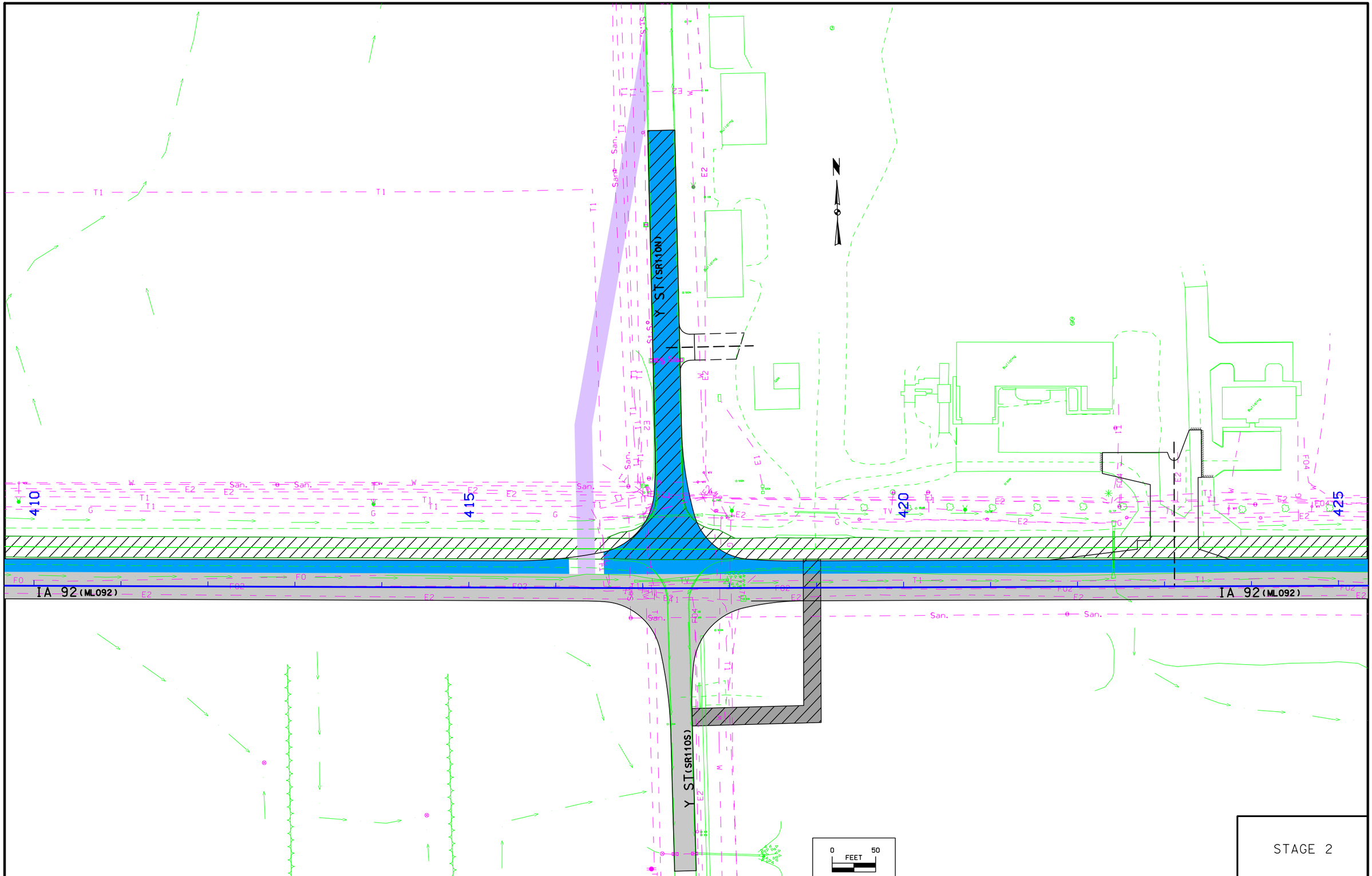

STAGE 2

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER J.7

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Y ST (SR110N)

Y ST (SR110S)

IA 92 (ML092)

IA 92 (ML092)

410

415

420

425

0 FEET 50

STAGE 2B

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER J.8

1:50:47 PM 8/2/2012 ddudley W:\Projects\P0591998\9109201004\Design\91092051J05.sht

SPRUCE ST

436 437 438 439 440 441 442

Existing IA 92 (SUR092)

IA 92 (ML092)

12 11 11 6

Gap and build
at night

Leave off curb for
stage 2 traffic

0 20
FEET

EAST TIEIN
STAGE 1

442 443 444 445 446 447 448

12 11 11 6

10:1 taper

10:1 taper

5:1 taper

IA 92 (ML092)

Gap and build
half at a time

Leave off curb for
stage 2 traffic

R ST

0 20
FEET

EAST TIEIN
STAGE 1

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER J.9

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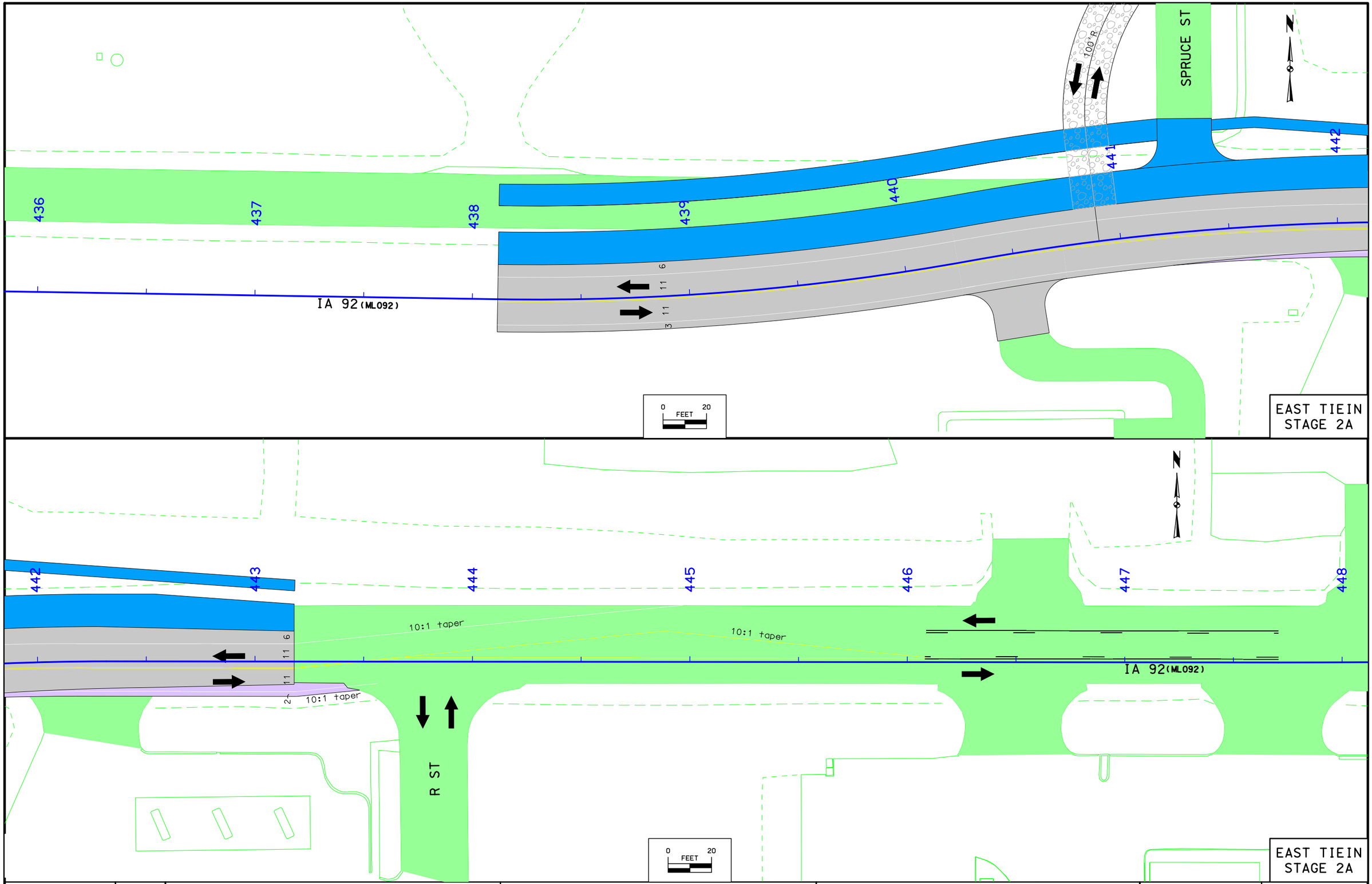

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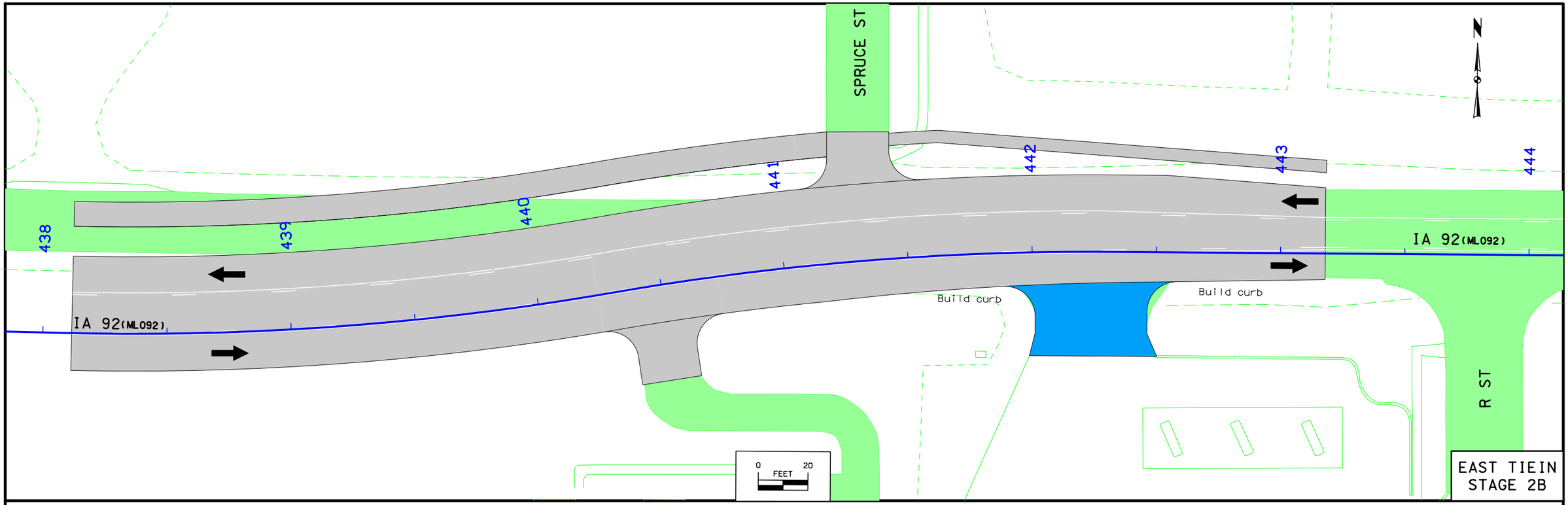

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SURVEY SYMBOLS

- TDC Tree Deciduous
- PPA Power Pole Co. 1
- FWD Wood Fence
- LUM Luminaire
- TEV Evergeen Tree
- LP L.P. Tank
- D Centerline Draw or Stream (Down)
- RET Retaining Walls
- SI Sign
- SHR Shrub
- SI Sign
- EW Edge of Water
- DIK Centerline of Dike or Dam
- FLG Flag Poles
- WM Wind Mill
- FCL Chain Link and Security Fence
- HDG Hedge Row
- TV Satelite TV Dish
- RT Radio Tower
- INB Storm Sewer Beehive Intake
- WV Water Valve
- FHD Fire Hydrants
- WEL Well
- MH Utility Access (Manhole)
- LUM Luminaire
- MIS Miscellaneous
- TPD Telephone Pedestal
- EB Electrical Box
- UB Utility Box
- PR Electic Riser Pole
- FW Wire Fence
- GP Guard Post (Less Than 4 Posts)
- IN Storm Sewer Intake
- TLN Treeline
- TVP TV Pedestal
- SEP Septic Tank
- OUT Tile Outlet
- TIL Tile Line
- UST Underground Tank
- GV Gas Valve
- DU Centerline Draw or Stream (Up)
- BNK Stream Bank
- BL Topo Breakline
- RIP Rip-Rap

- St.S. · STA Storm Sewer Line Co. 1
- F03 · FOC Underground Fiber Optic Co. 3
- F05 · FOE Underground Fiber Optic Co. 5
- F02 · FOB Underground Fiber Optic Co. 2
- San. · SAA Sanitary Sewer Line Co. 1
- T1 · TLA Underground Telephone Line Co. 1
- E1 · ELA Underground Electric Line Co. 1
- G · GLA Underground Gas Line Co. 1
- TVA Underground TV Cable Co. 1
- W · WLA Underground Water Line Co. 1
- F0 · FOA Underground Fiber Optic Co. 1
- E2 · ELB Underground Electric Line Co. 2
- San.2 · SAB Sanitary Sewer Line Co. 2
- GLB Underground Gas Line Co. 2
- F04 · FOD Underground Fiber Optic Co. 4
- WLB Underground Water Line Co. 2

UTILITY LEGEND

- F0 · FOA Paetac Iowa Communications Network
- F02 · FOB Lightcore (Digital Teleport)
- F03 · FOC Iowa Network Service
- F04 · FOD Indianola Municipal Utilities
- F05 · FOE MCI
- T1 · TLA Qwest
- E1 · ELA Mid-American
- E2 · ELB Indianola Municipal Utilities
- TVA Mediacom
- W · WLA Indianola Municipal Utilities
- WLB Warren Rural Water
- San. · SAA City of Indianola
- San.2 · SAB Private
- G · GLA Mid-American
- GLB Kinder Morgan
- St.S. · STA City of Indianola
- PPA Mid-American

PLAN VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Topographic Features, Utilities, and Labels
Black	(17)	Proposed Storm Sewer Details, Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	Design Color No.	
Gray, Light	(48)	Proposed Pavement Shading

PROFILE VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Ground Line Profile and Existing Utilities Information
Black	(17)	Proposed Pipes and Intakes

PLAN VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Plug and Abandon Existing Pipe or Structure
- Removal of Existing Pipe or Structure
- Previously Constructed Pipe or Structure
- Direction of Pipe Flow

PROFILE VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Existing Ground
- Proposed Ground
- Previously Constructed Pipe or Structure
- Proposed Pipe or Structure

- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

STORM SEWER LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES M)

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER M.2

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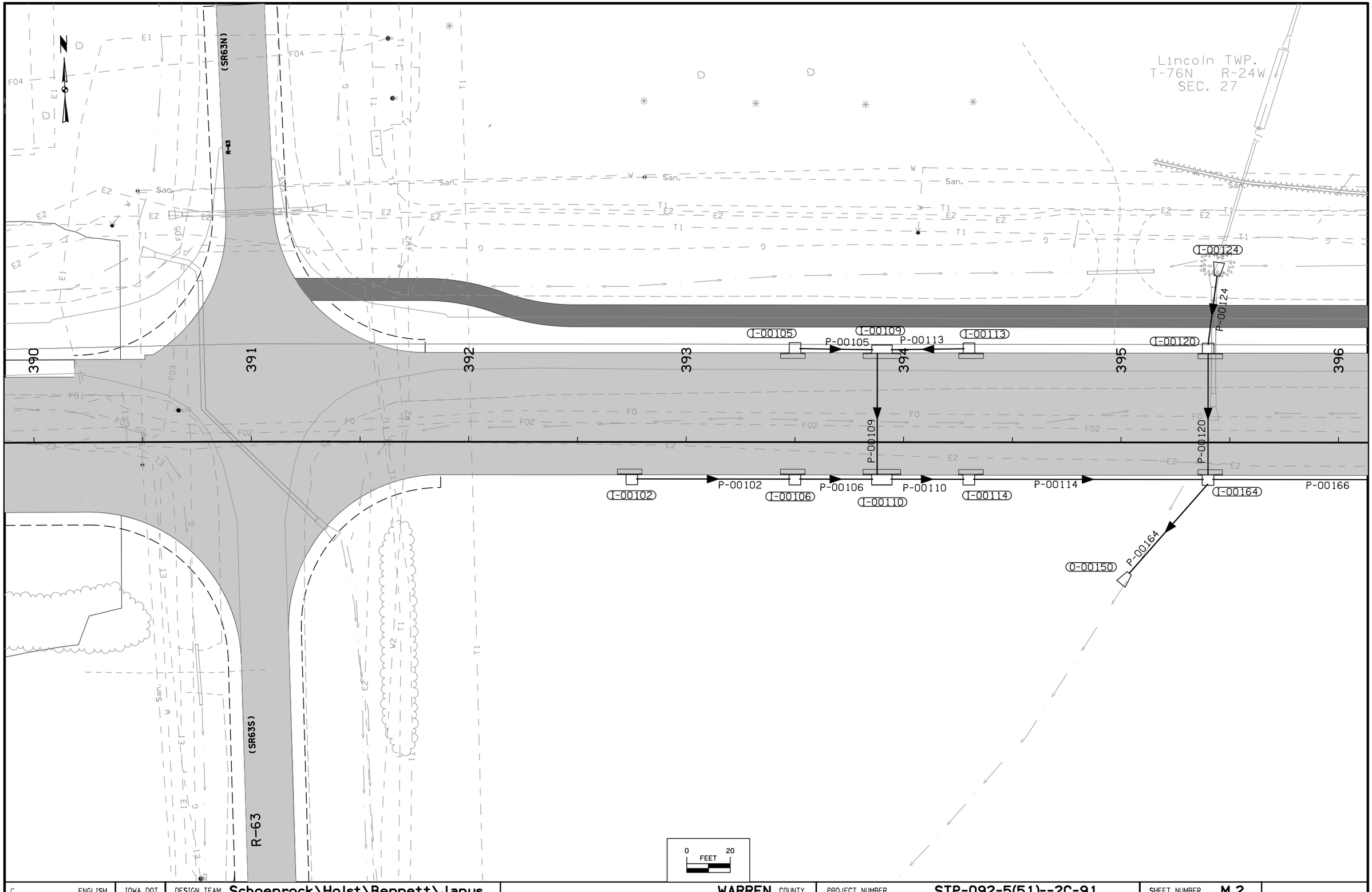

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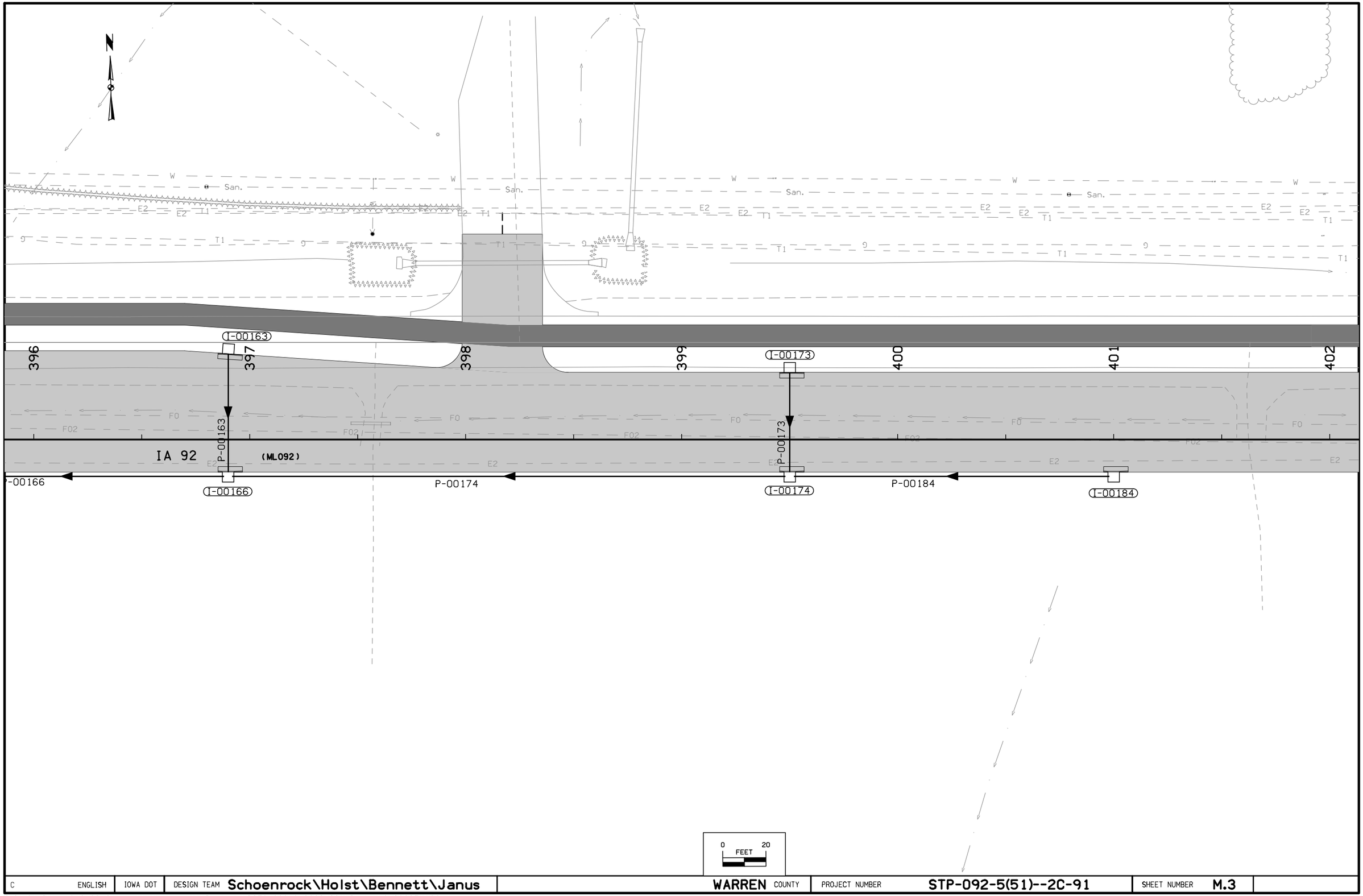

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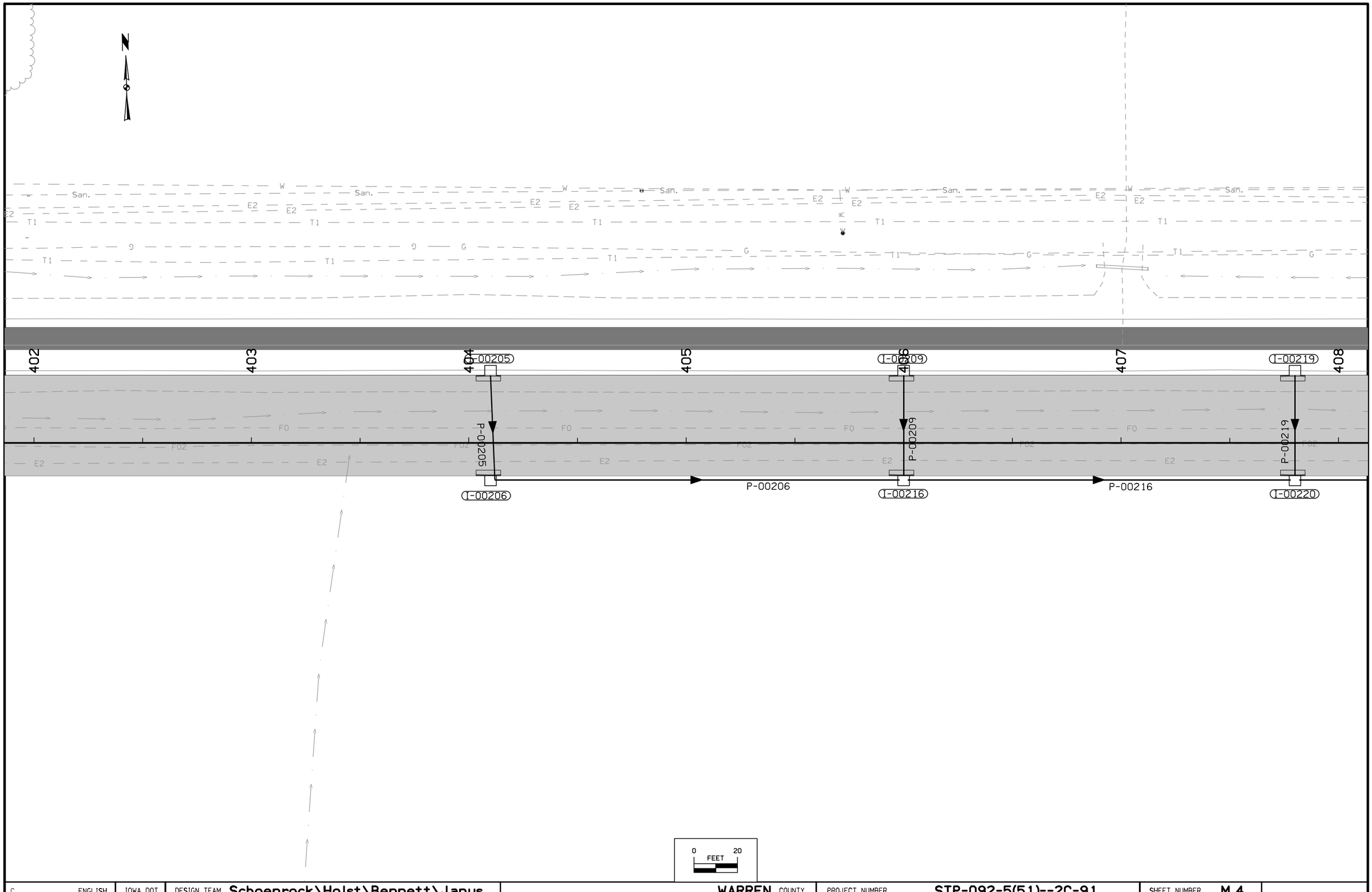

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Lincoln TWP.
T-76N R-24W
SEC. 27

W San. W San. W San. W San. W

E2 E2 E2 E2 E2 E2 E2 E2 E2 E2

T1 T1 T1 T1 T1 T1 T1 T1 T1 T1

G G G G G

408 409 I-00225 410 411 I-00229 412 413 I-00239 414 I-0

F0 F0 F0 F0 F0

E2 E2 E2 E2 E2 E2

P-00225 P-00229 P-00239 P-00249

IA 92 (ML092)

P-00220 P-00226 P-00236 P-00260

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FEET

C	ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER M.5

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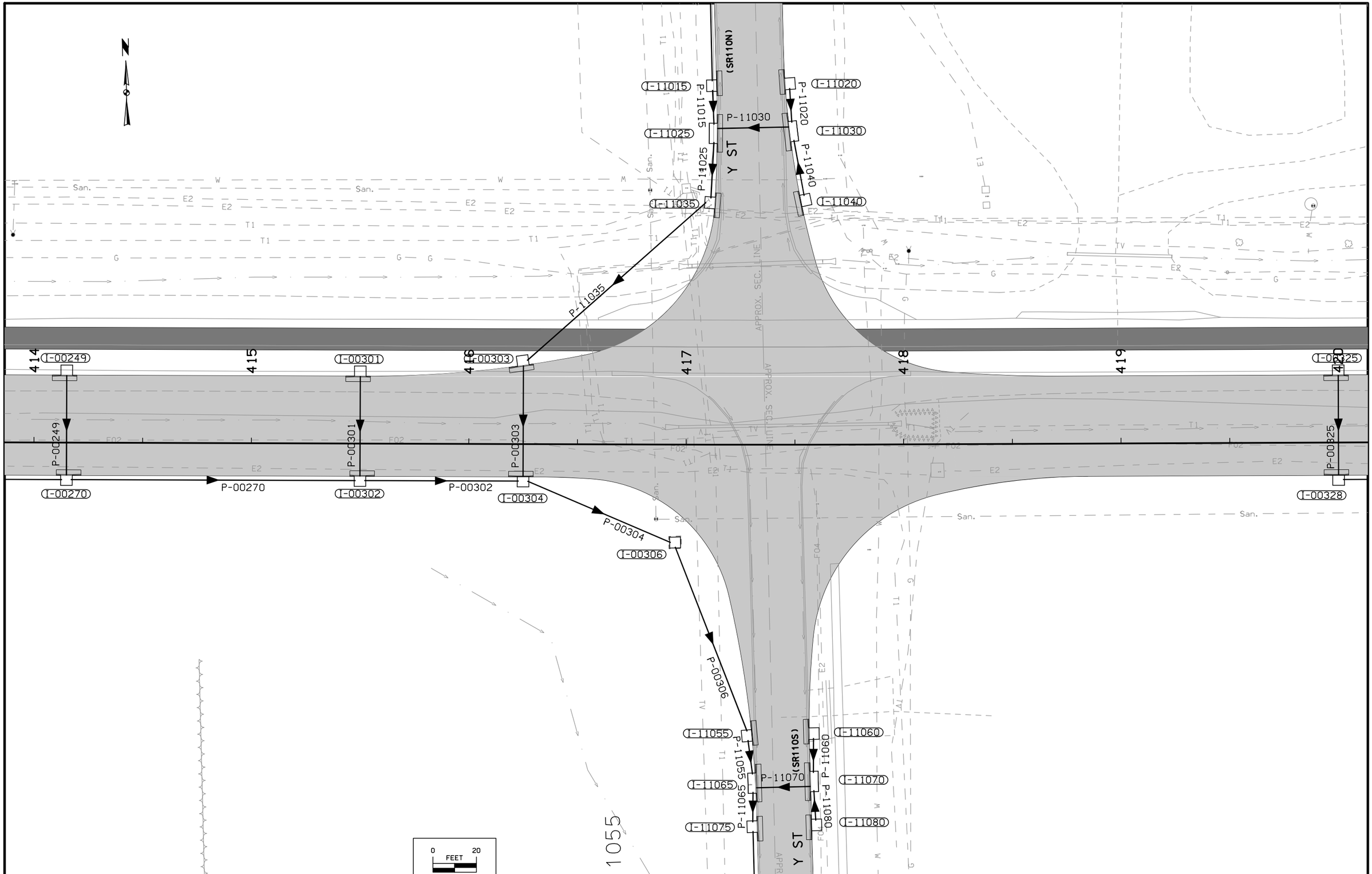

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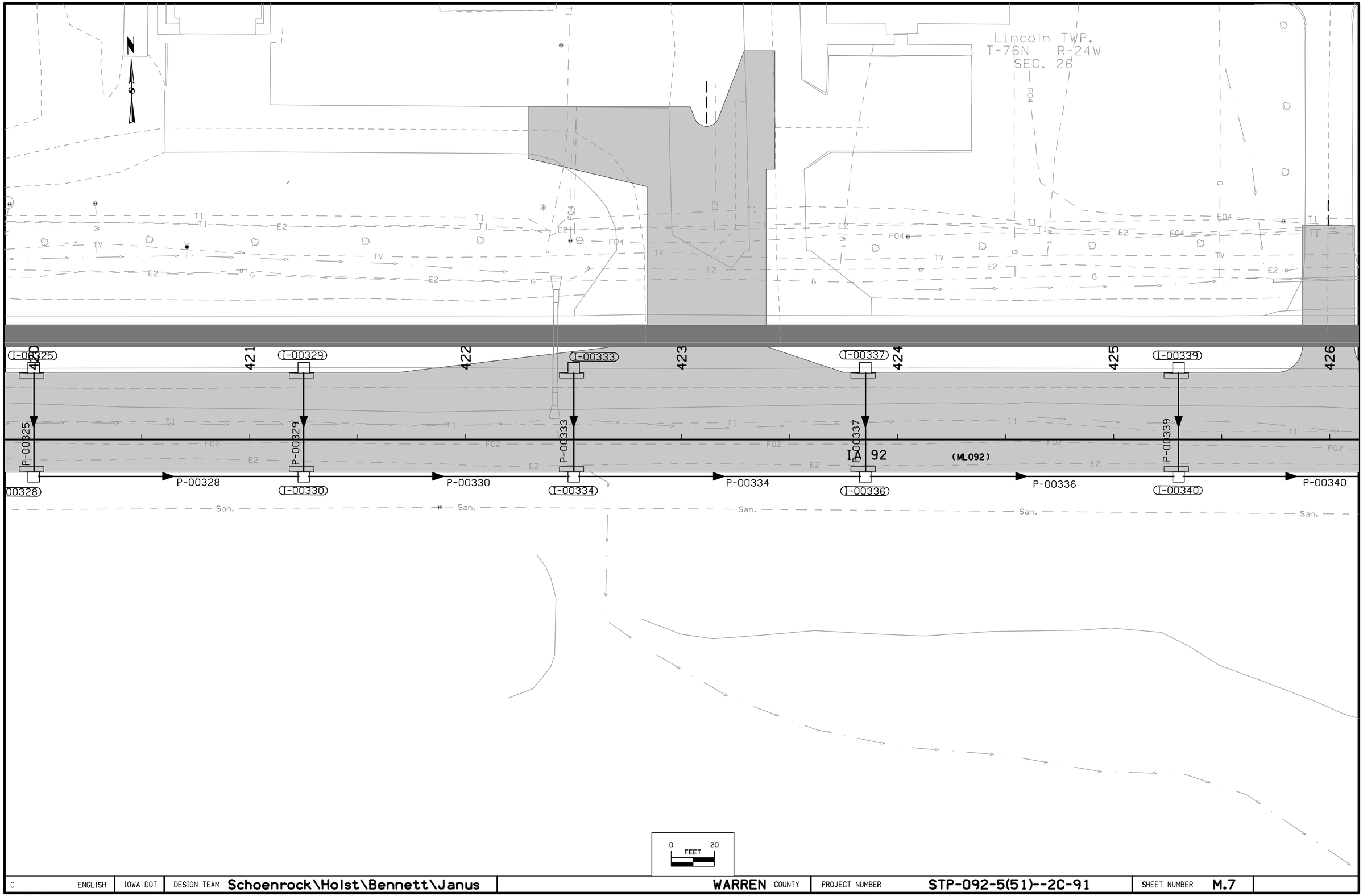

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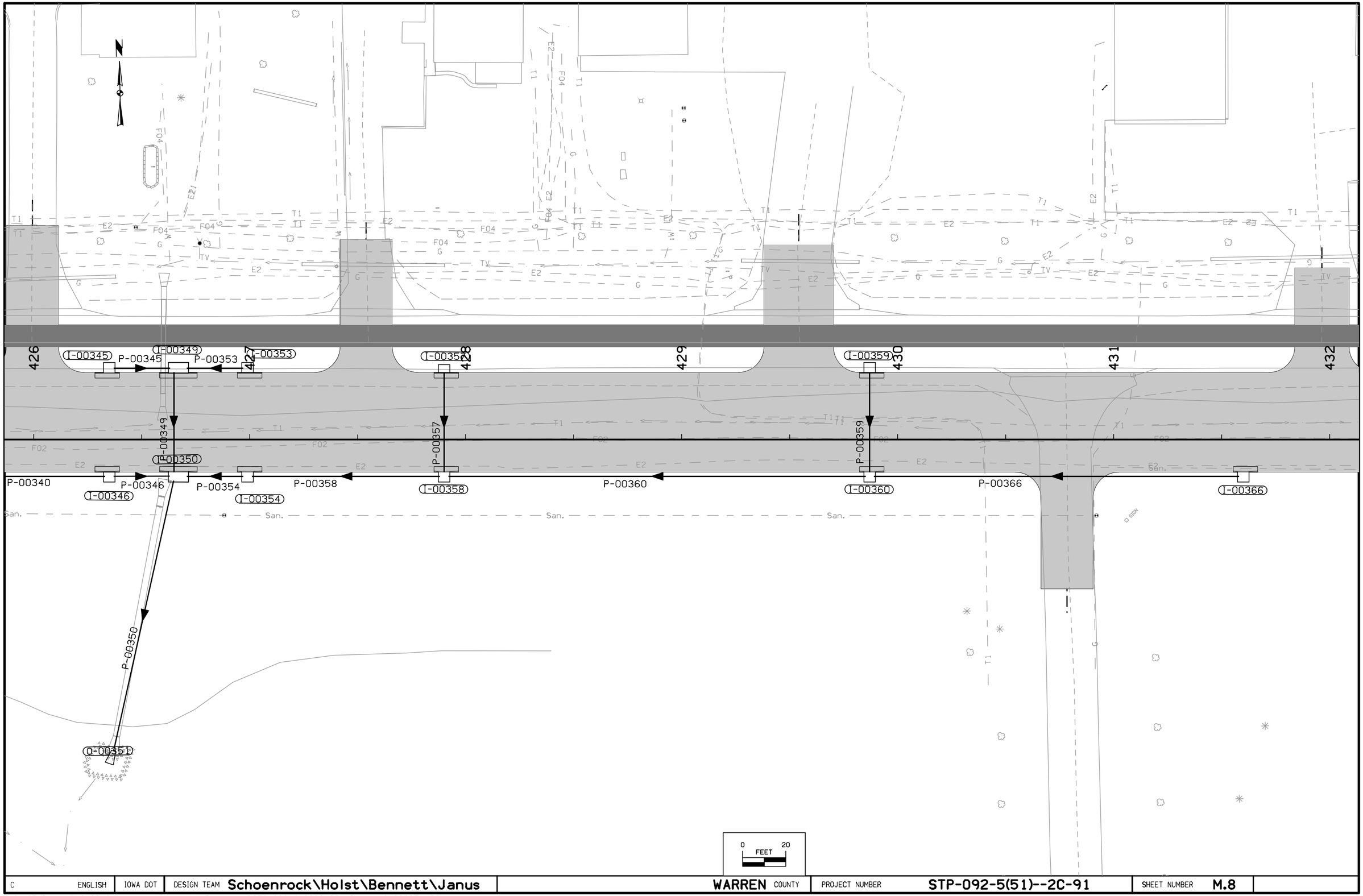

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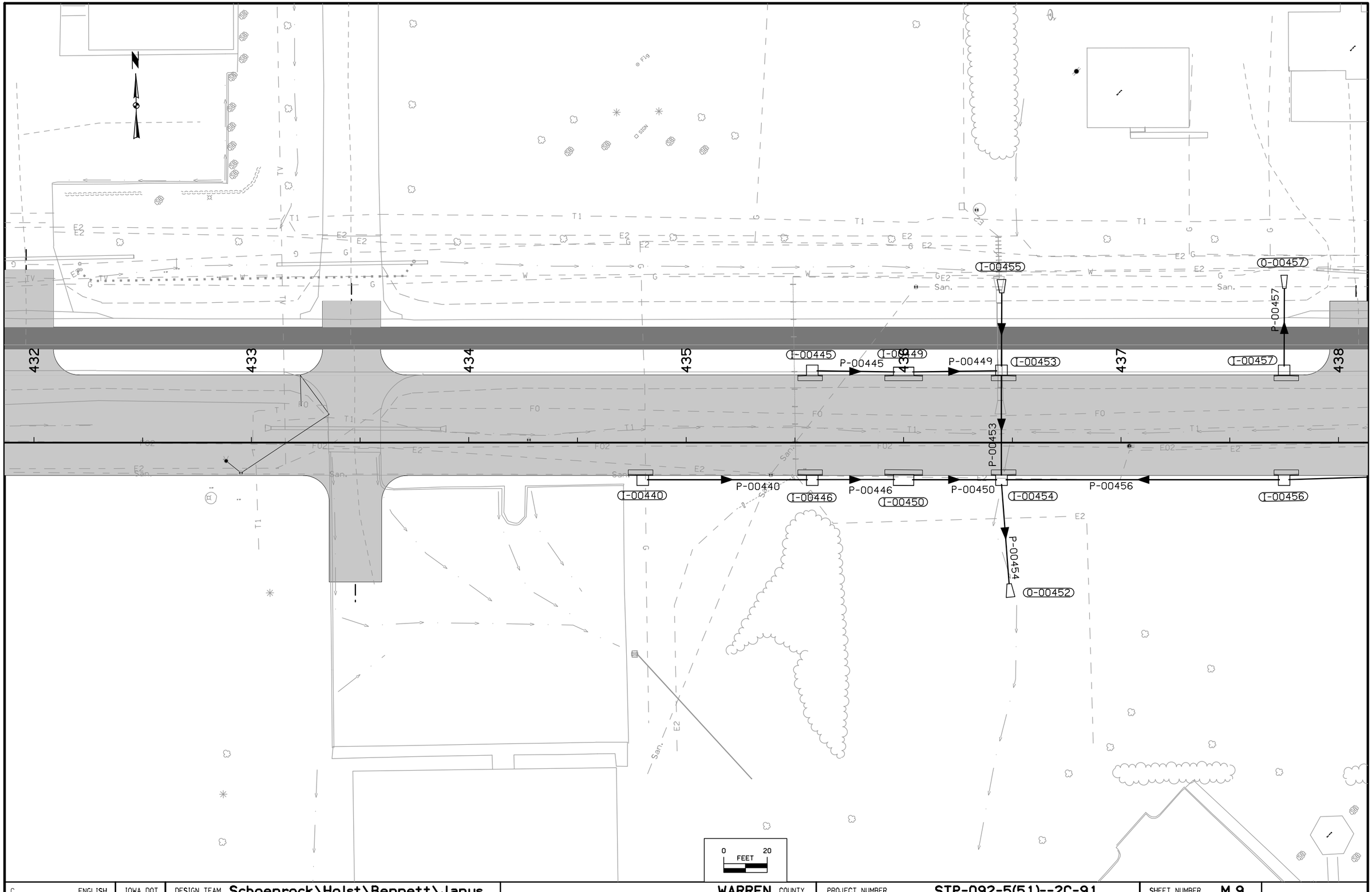

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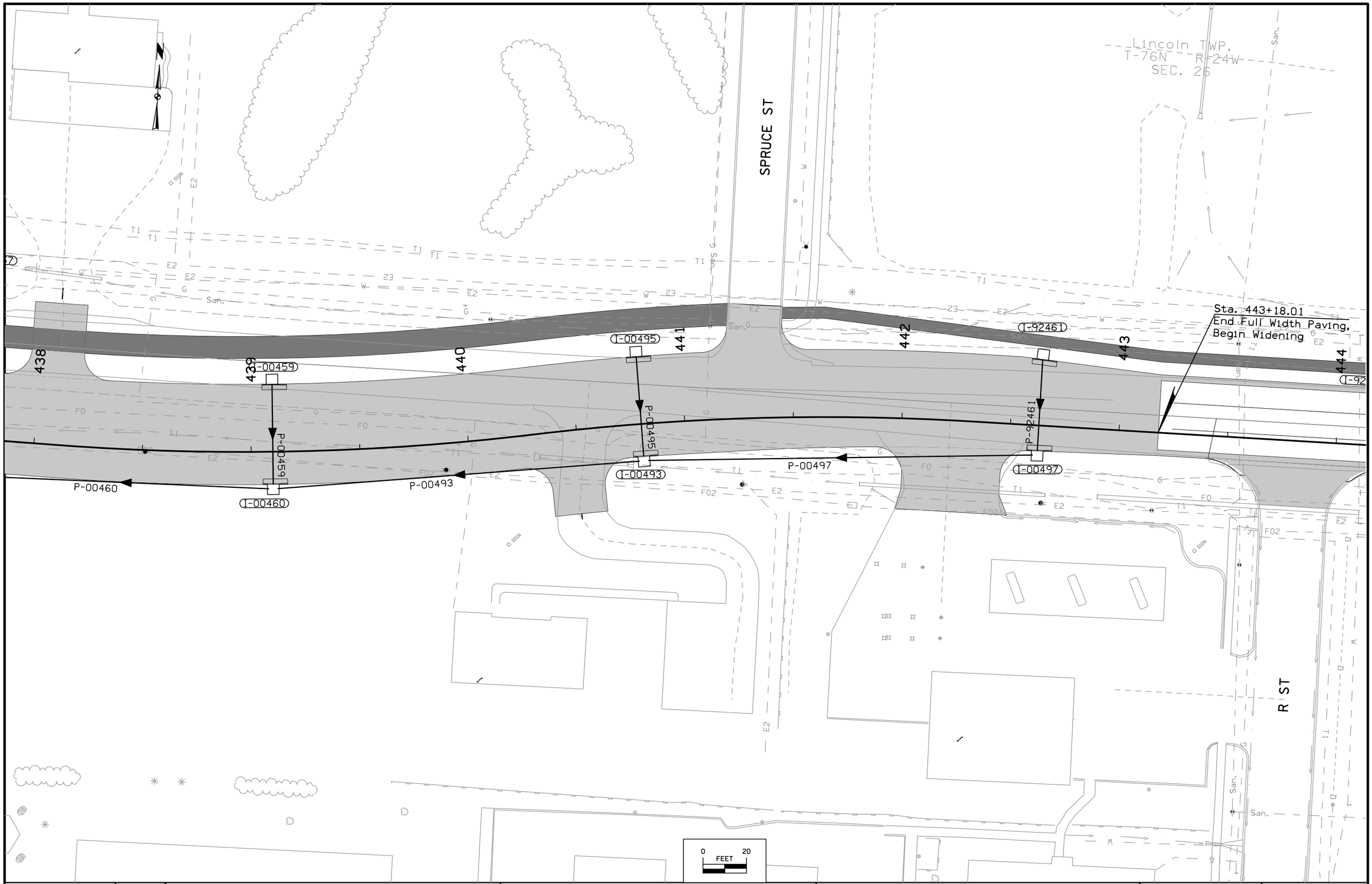

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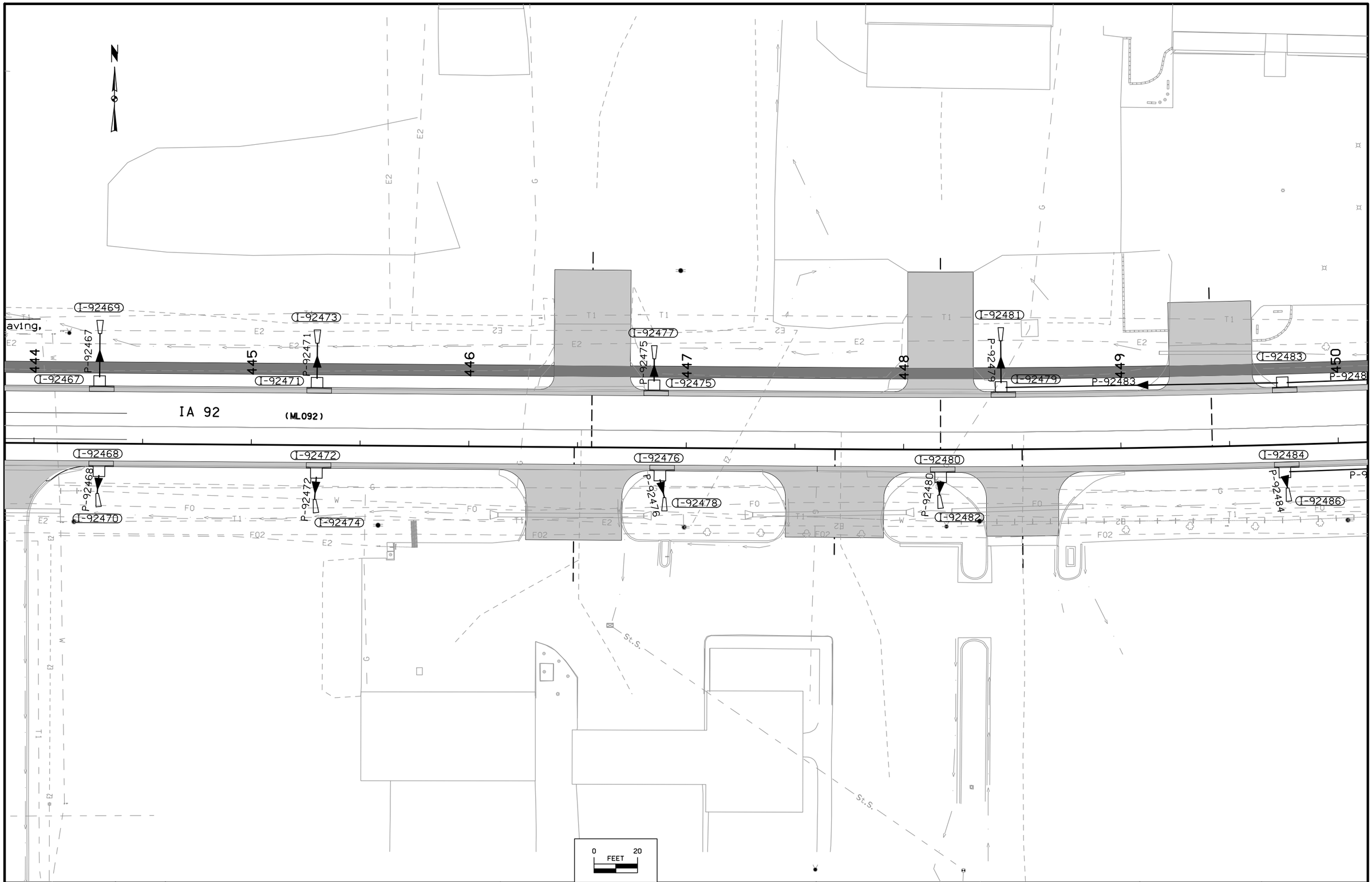

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S KENWOOD BLVD

SOUTH P ST

Building

I-92487 I-92491 I-92601 I-92605

P-92487 P-92491 P-92601

450 451 452 453 454 455 456

IA 92

I-92488 I-92492 I-92494 I-92602 I-92604 I-92606 I-92608

P-92488 P-92492 P-92602 P-92606

SOUTH P ST

Building

0 FEET 20

C ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER M.12

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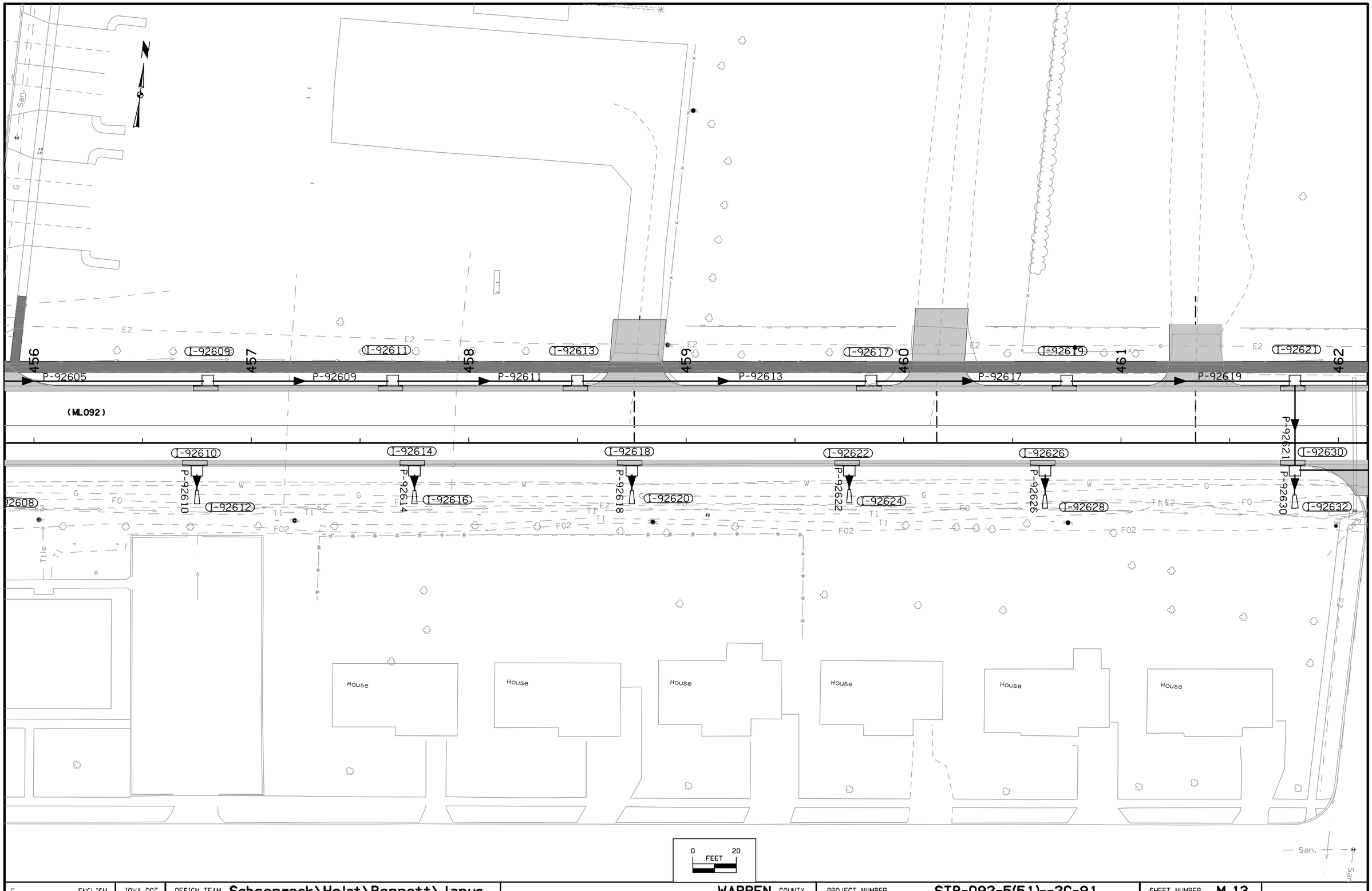

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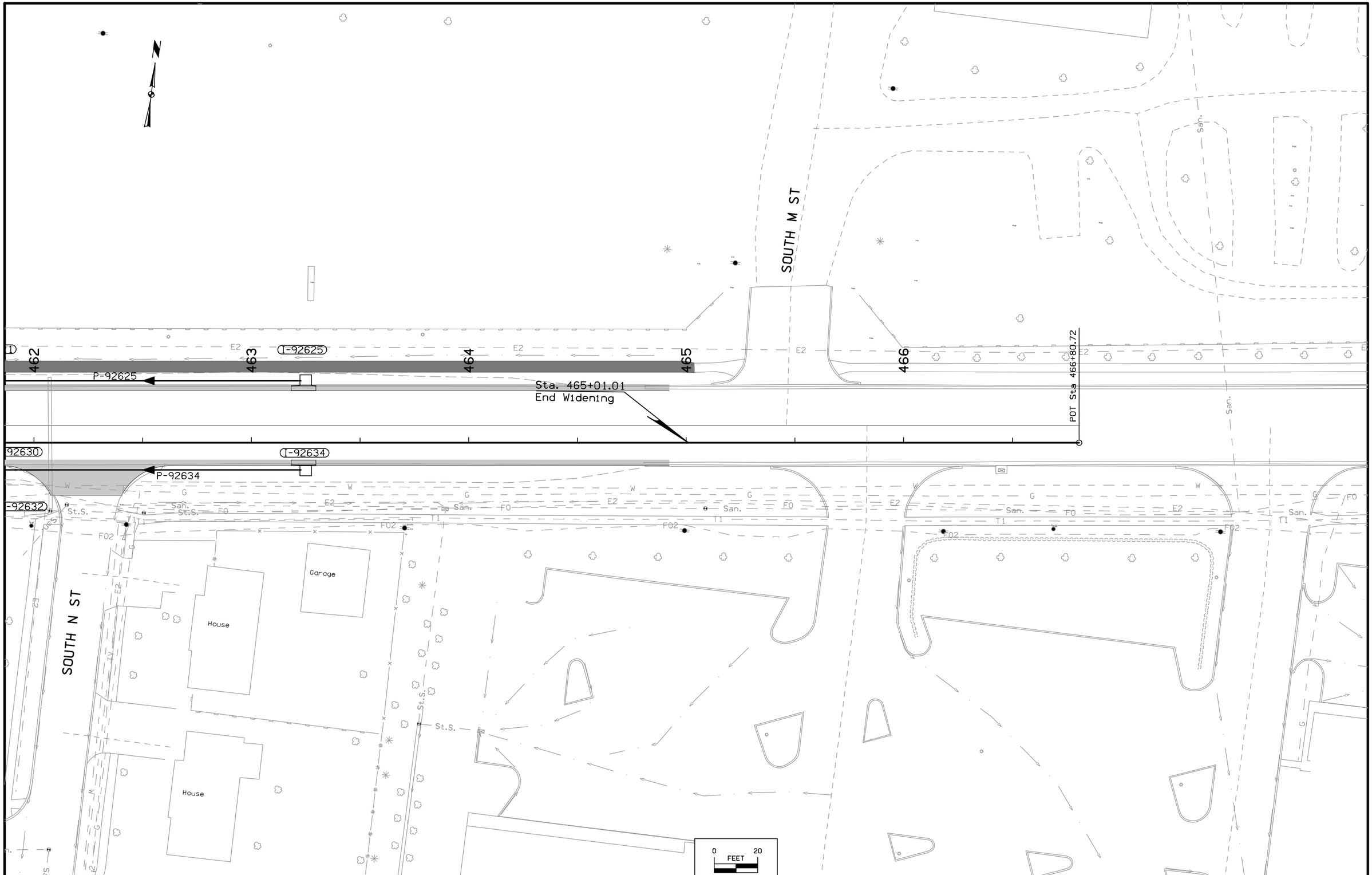

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LEGEND OF CROSS SECTION SHEETS (ROAD)

- Existing Ground Line
- Proposed Template
- Proposed Topsoil Placement
- Additional Topsoil Removal
- Subrade Treatment
- Granular Shoulder
- Pavement
- Existing Pipe\RCB
- Proposed Pipe\RCB
- Proposed Dike
- All Elements Associated with Proposed Entrances

LEGEND OF CROSS SECTION SHEETS (SOILS)

- TS — Topsoil (Class 10)
- TS A — Topsoil (Type A Disposal)
- TS B — Topsoil (Type B Disposal)
- TS C — Topsoil (Type C Disposal)
- CL 10 — Class 10 Materials
- SEL LO — Select Loams And Clay-Loams
- SEL SA — Select Sand
- UNS A — Unsuitable Type A Disposal
- UNS B — Unsuitable Type B Disposal
- UNS C — Unsuitable Type C Disposal
- SHALE — Shale
- WASTE — Waste
- B&W LS — Broken and Weathered Rock
- ROCK — Solid Rock
- BLDRS — Boulders

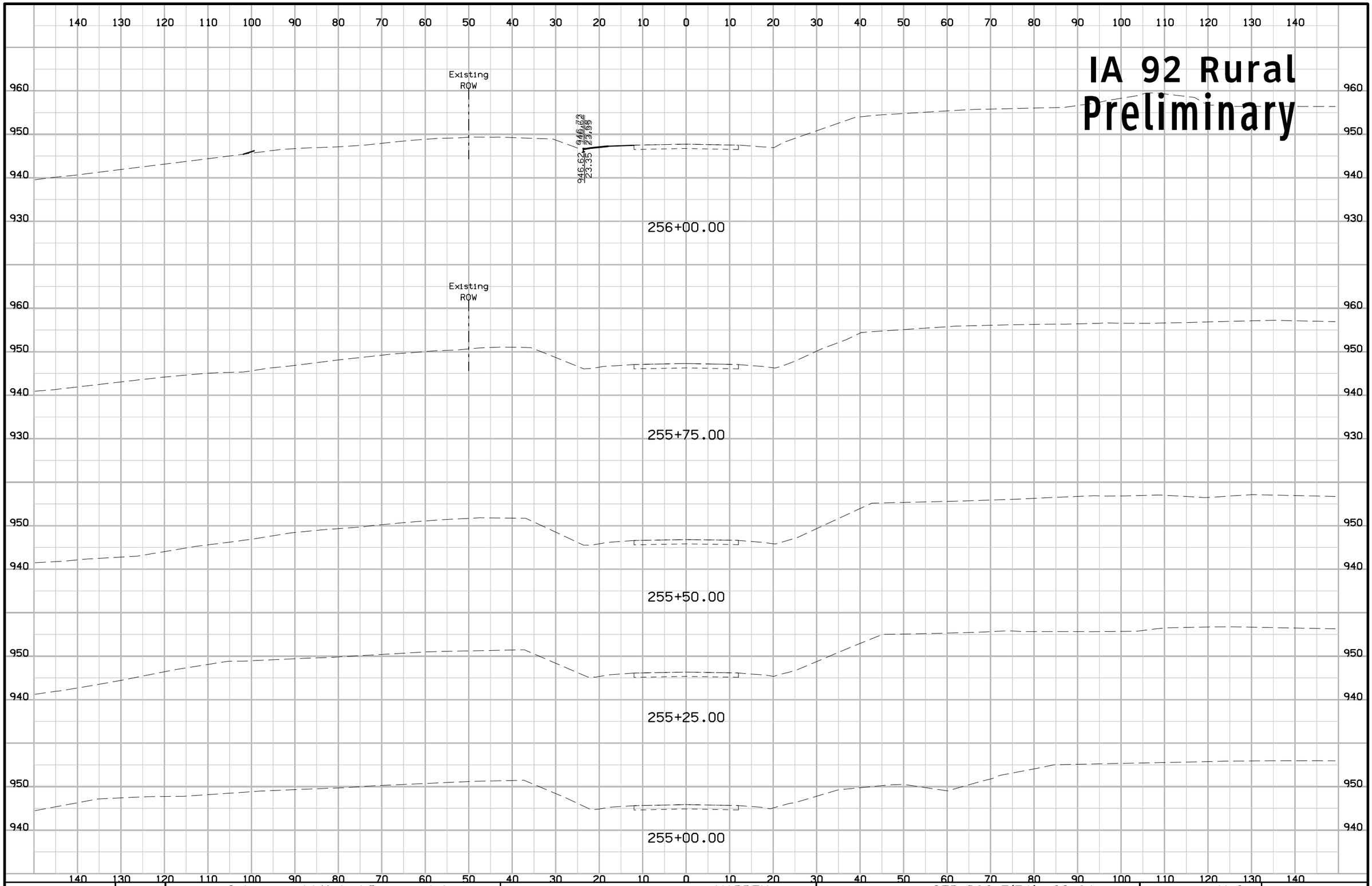
Note: All layer lines and descriptions identify layers above the line.

Note: Vertical or near vertical lines connecting soil layers at edges of cross sections are only for the purpose of calculating template quantities and do not depict soil stratification.

CROSS SECTION LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES W, X, Y, & Z)

IA 92 Rural
Preliminary



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IA 92 Rural
Preliminary

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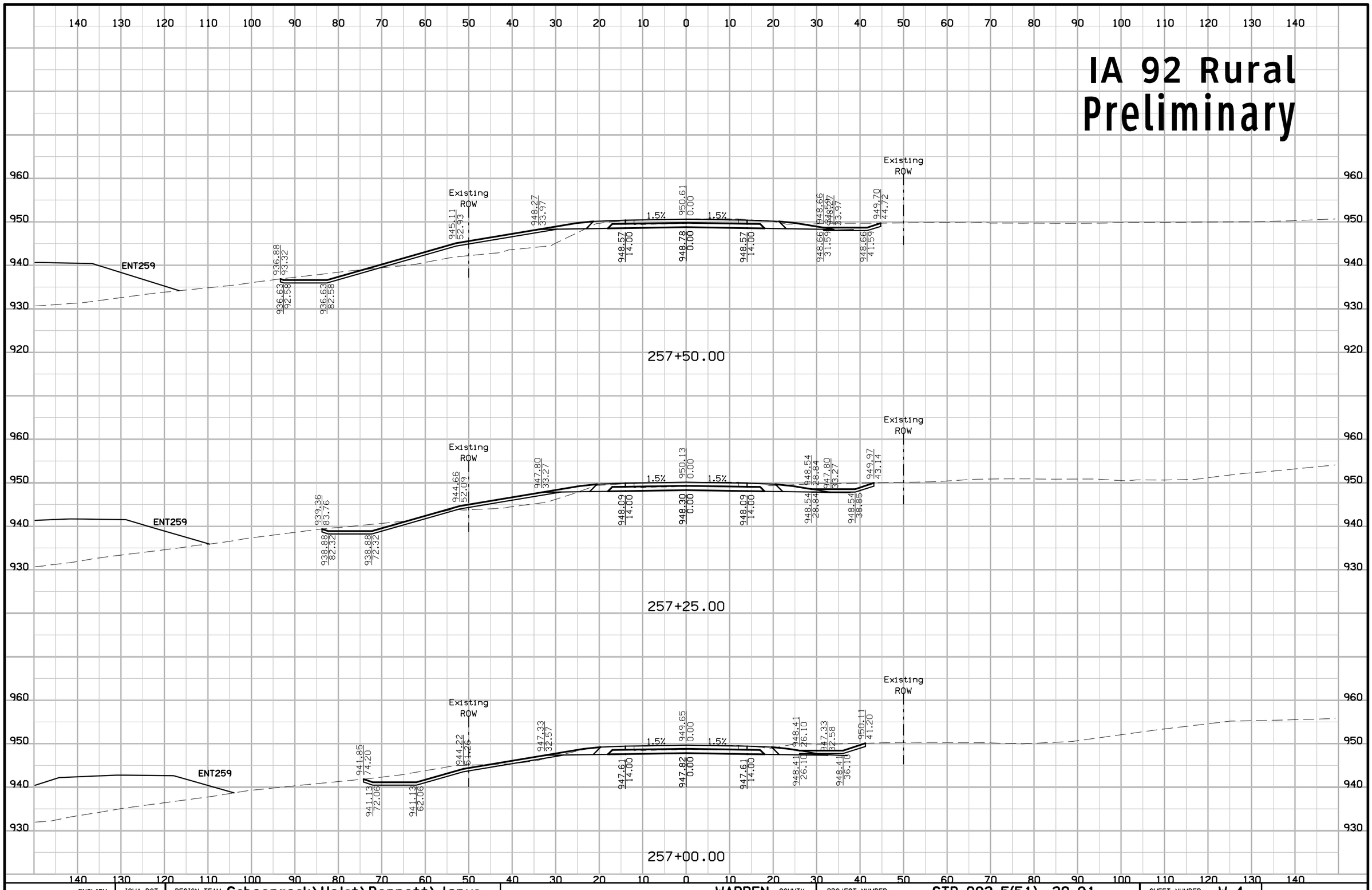
IA 92 Rural
Preliminary



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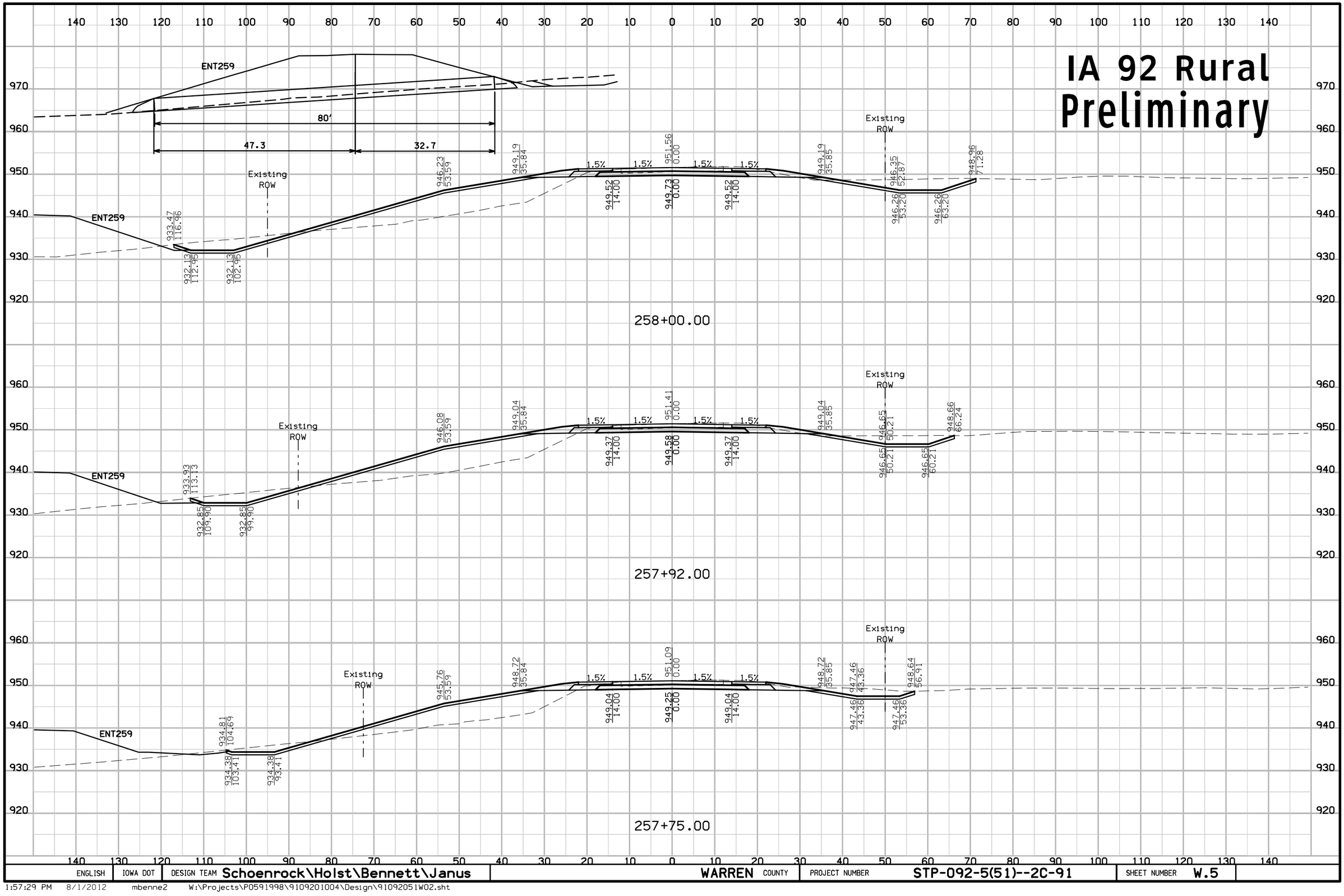
IA 92 Rural Preliminary



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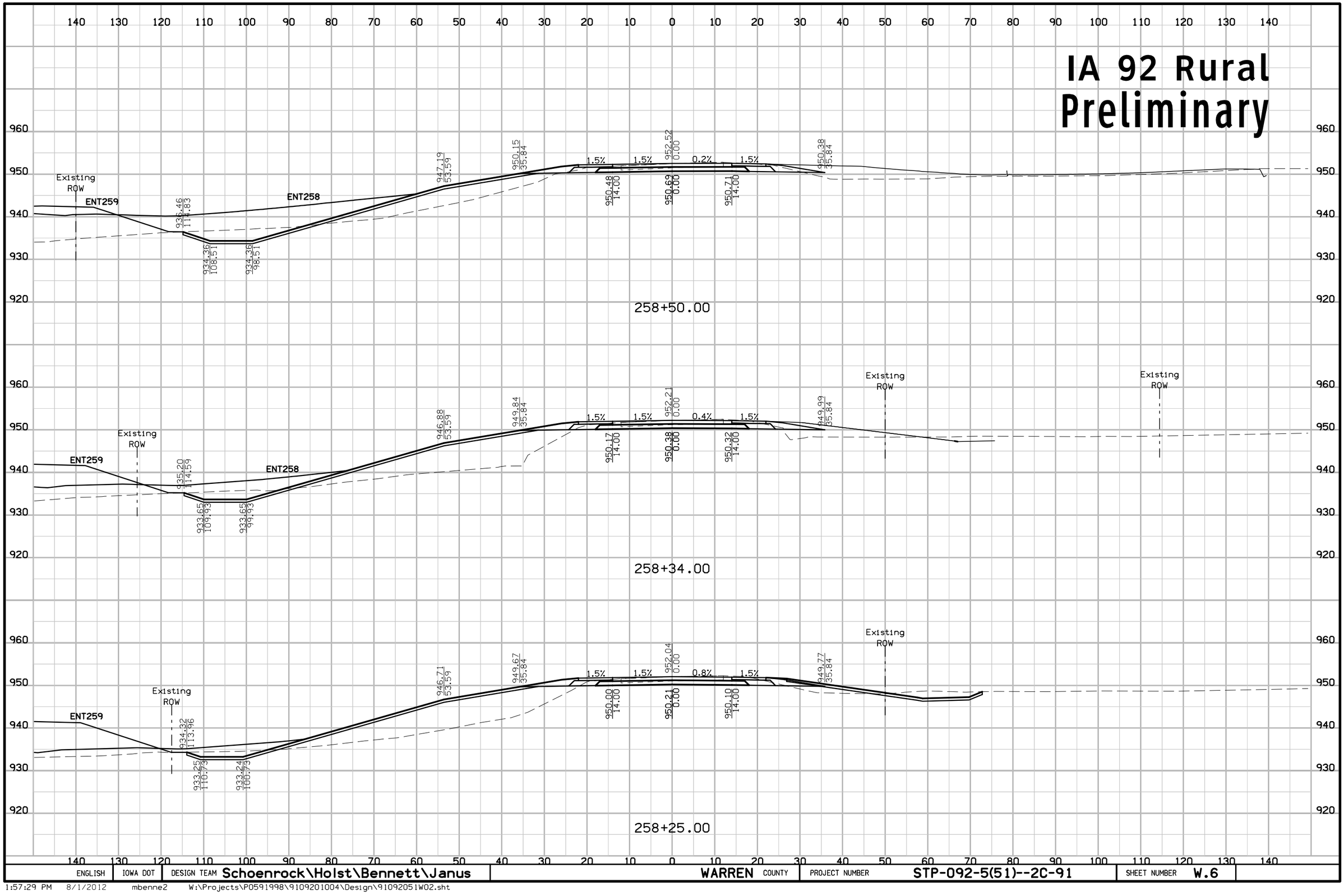
IA 92 Rural Preliminary



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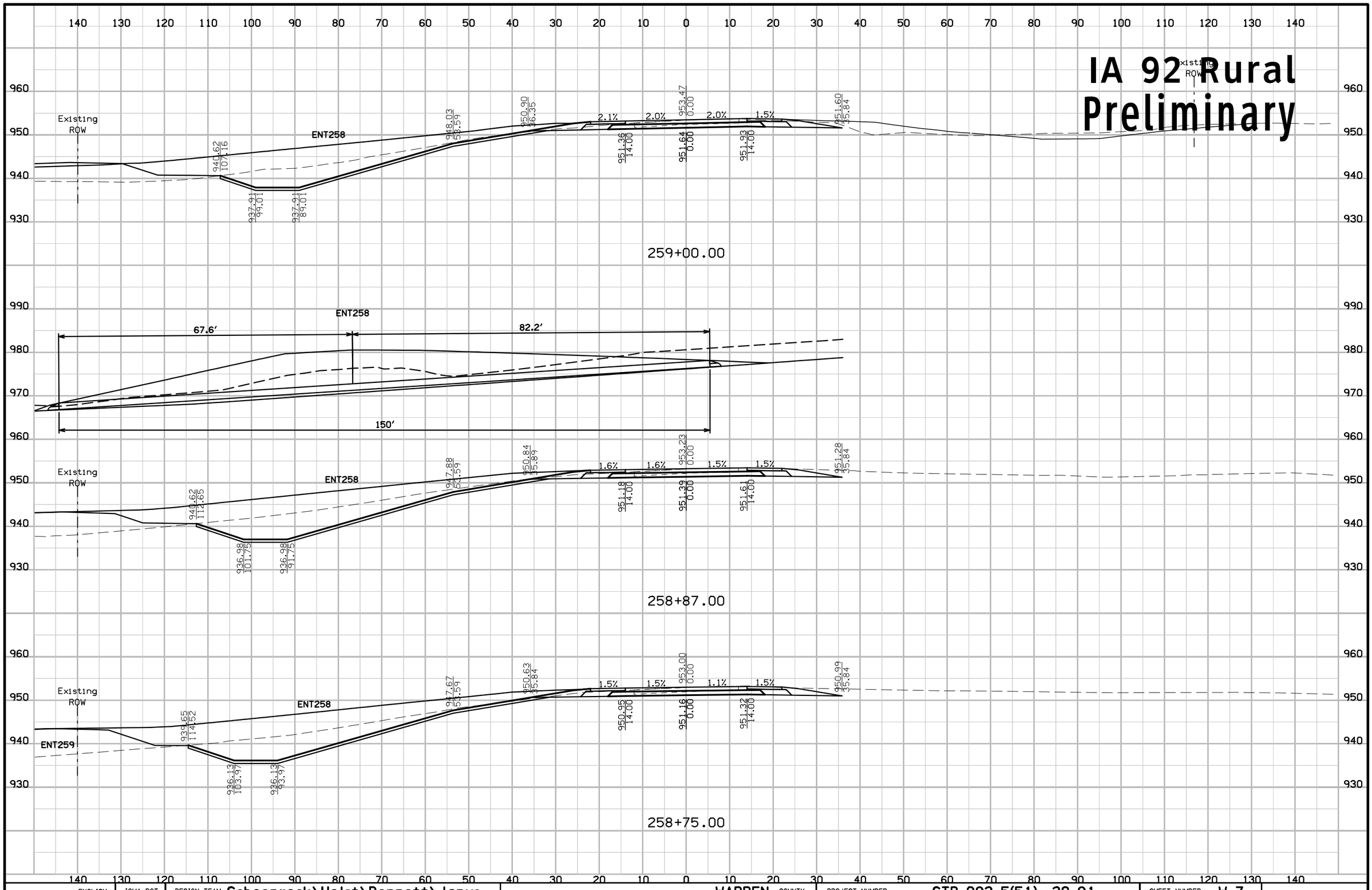
IA 92 Rural Preliminary



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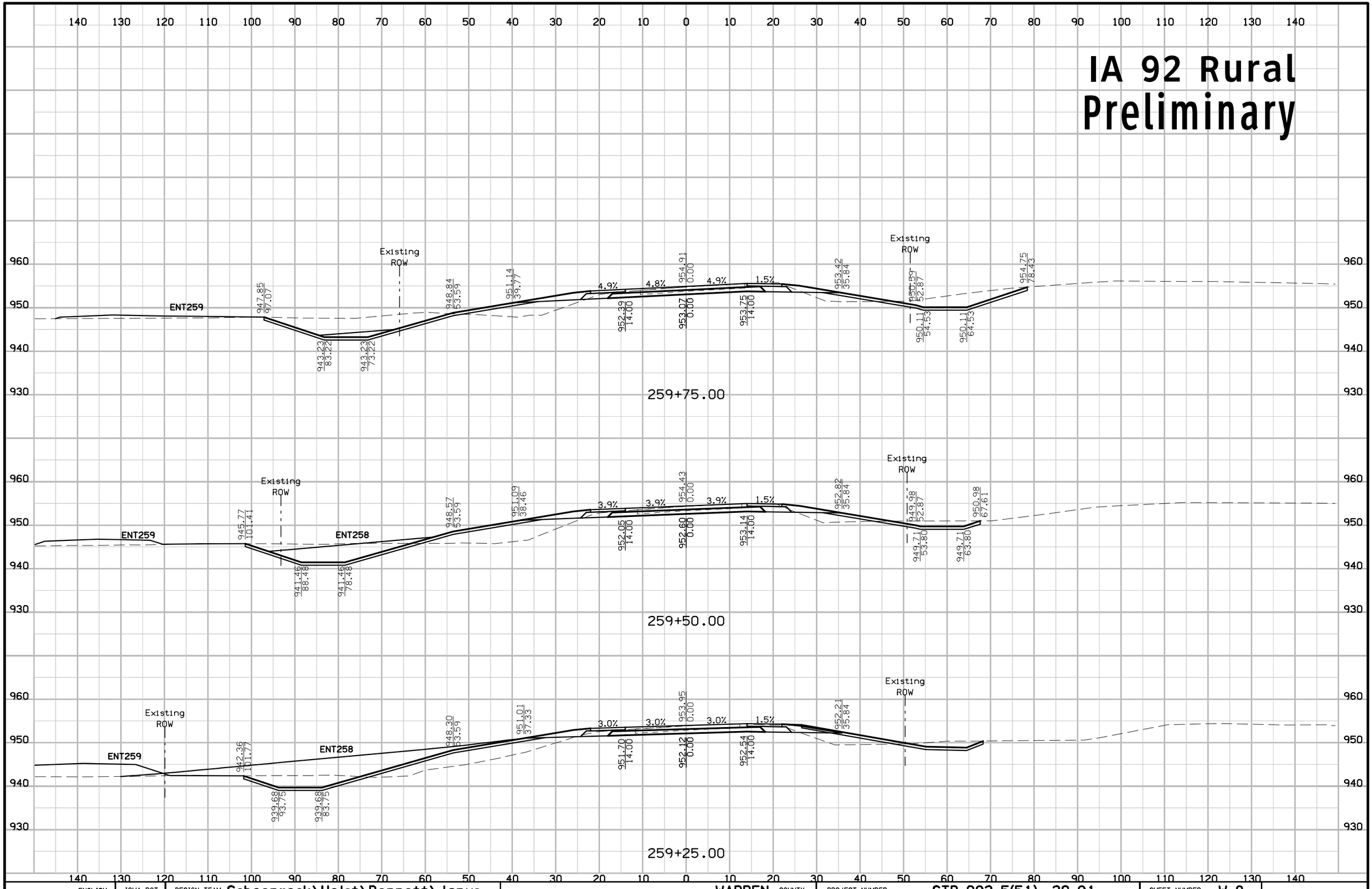
IA 92 Rural Preliminary



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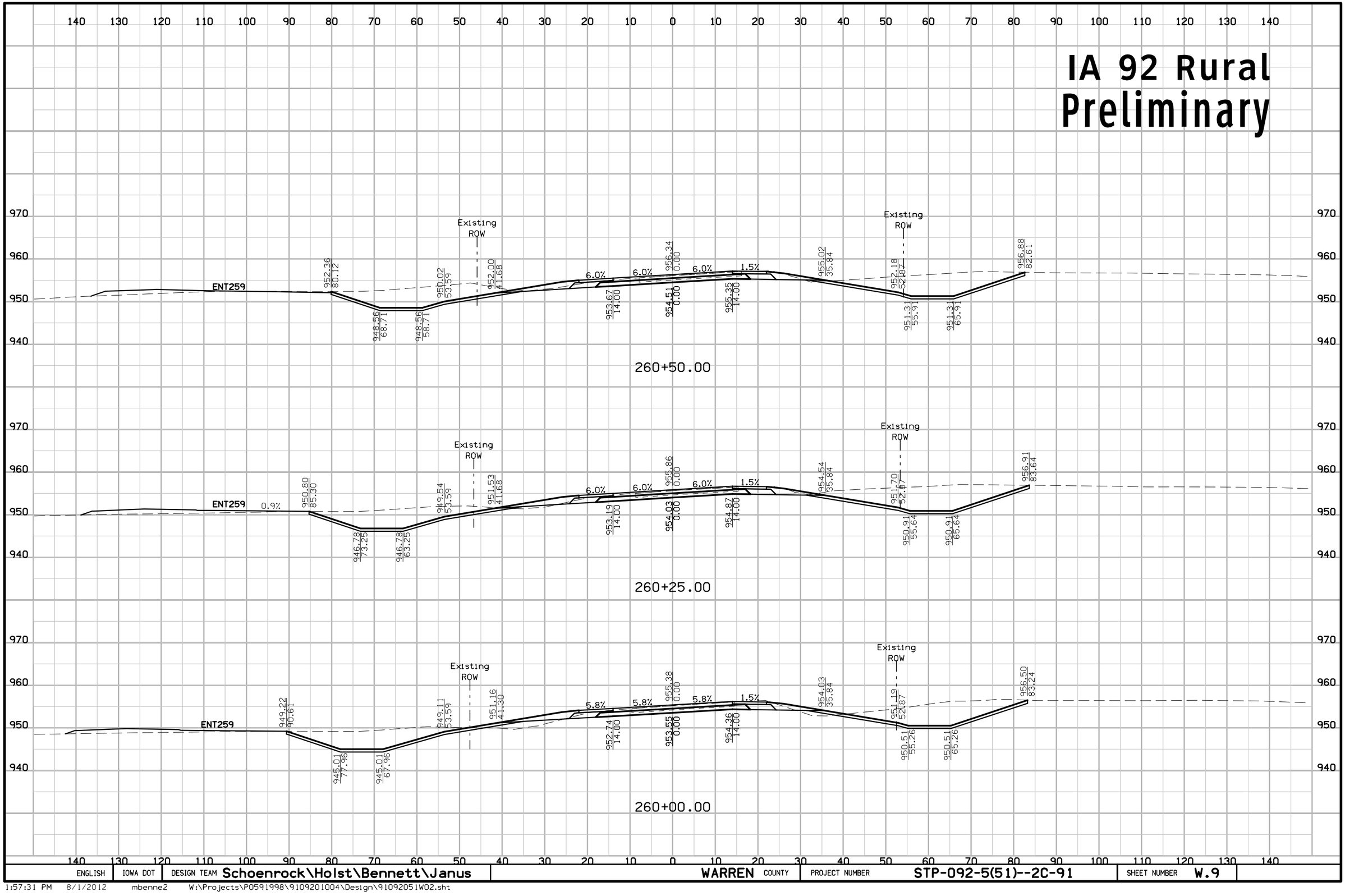
IA 92 Rural
Preliminary



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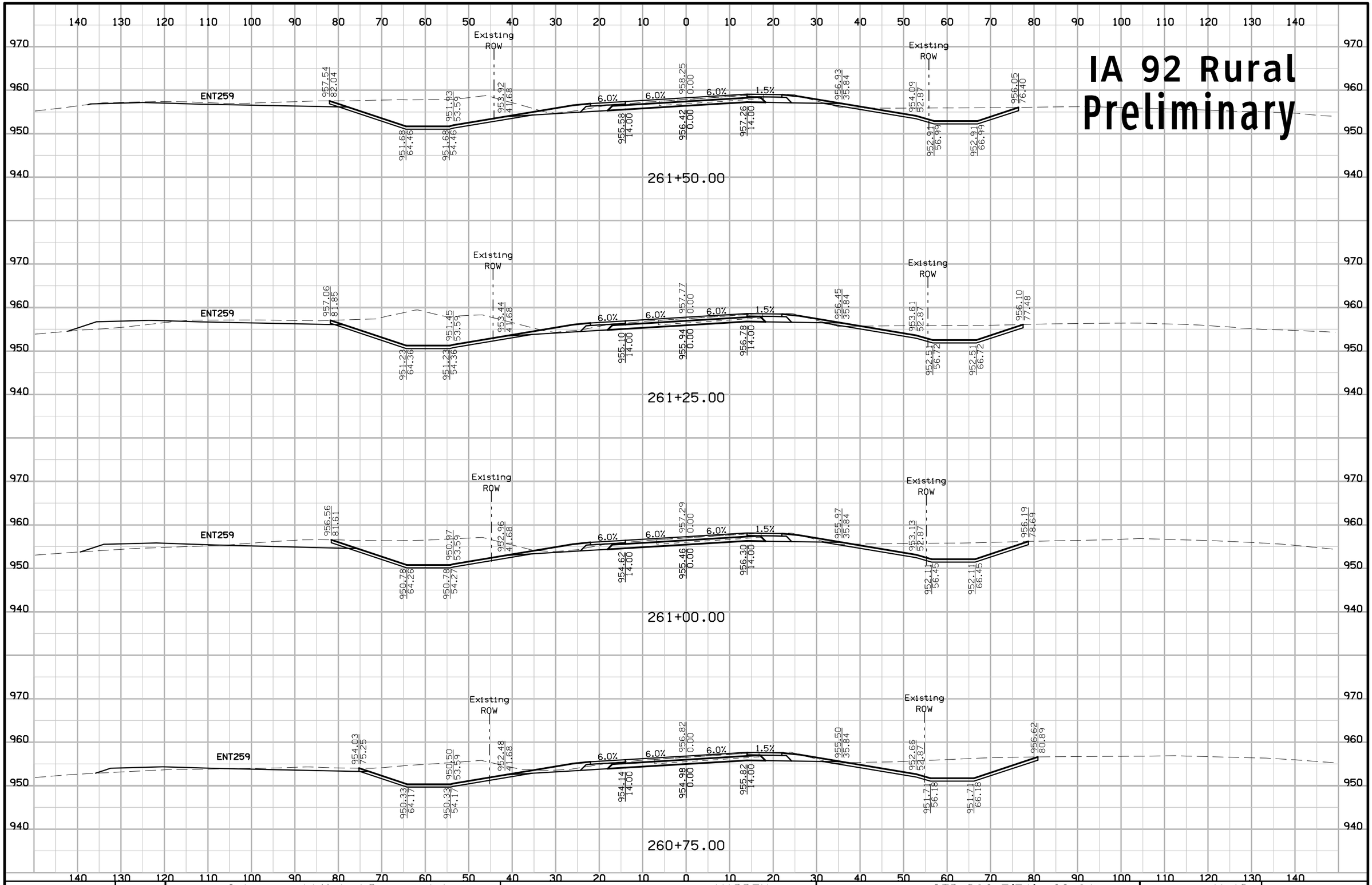
IA 92 Rural Preliminary



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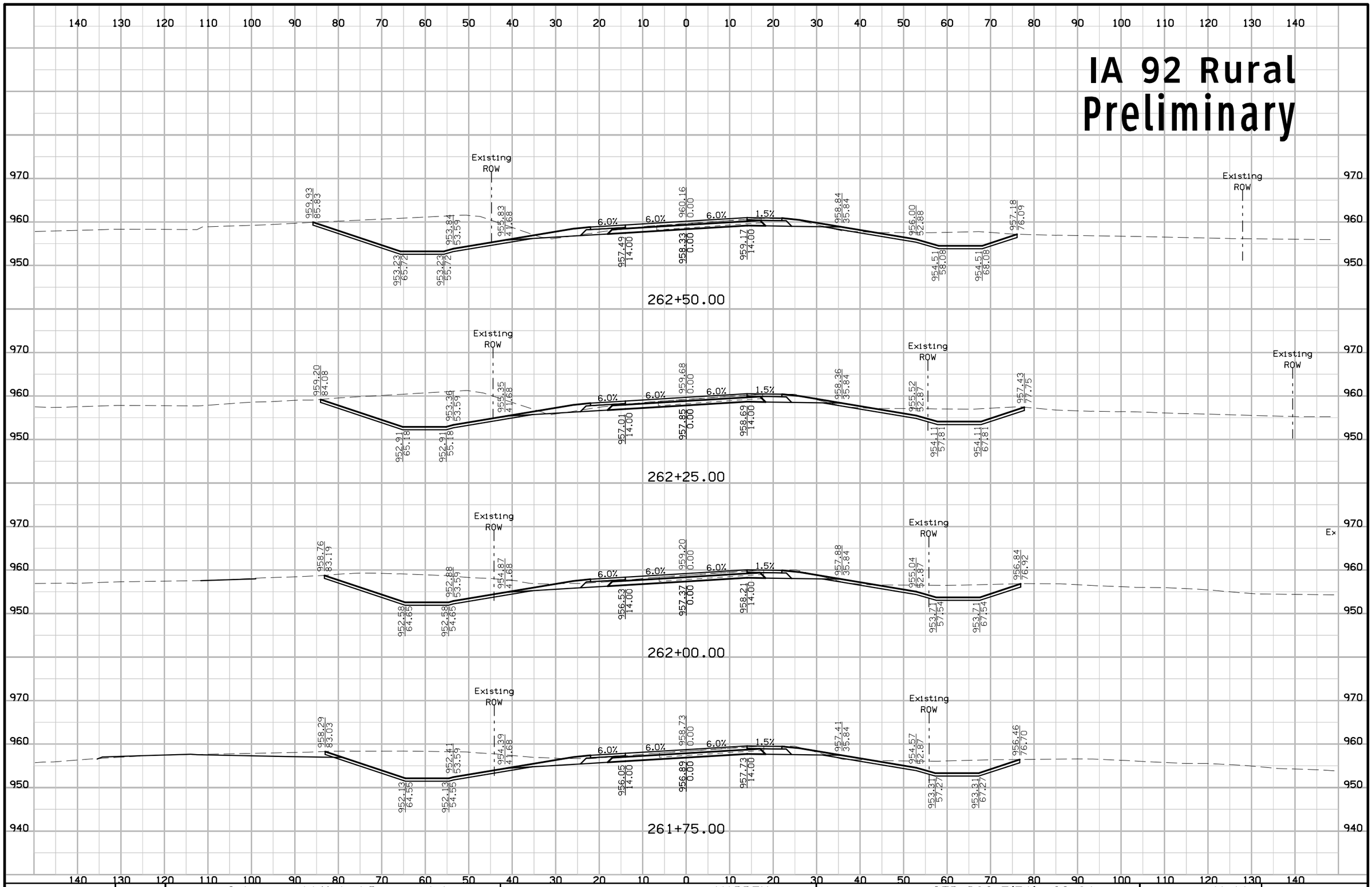
IA 92 Rural
Preliminary



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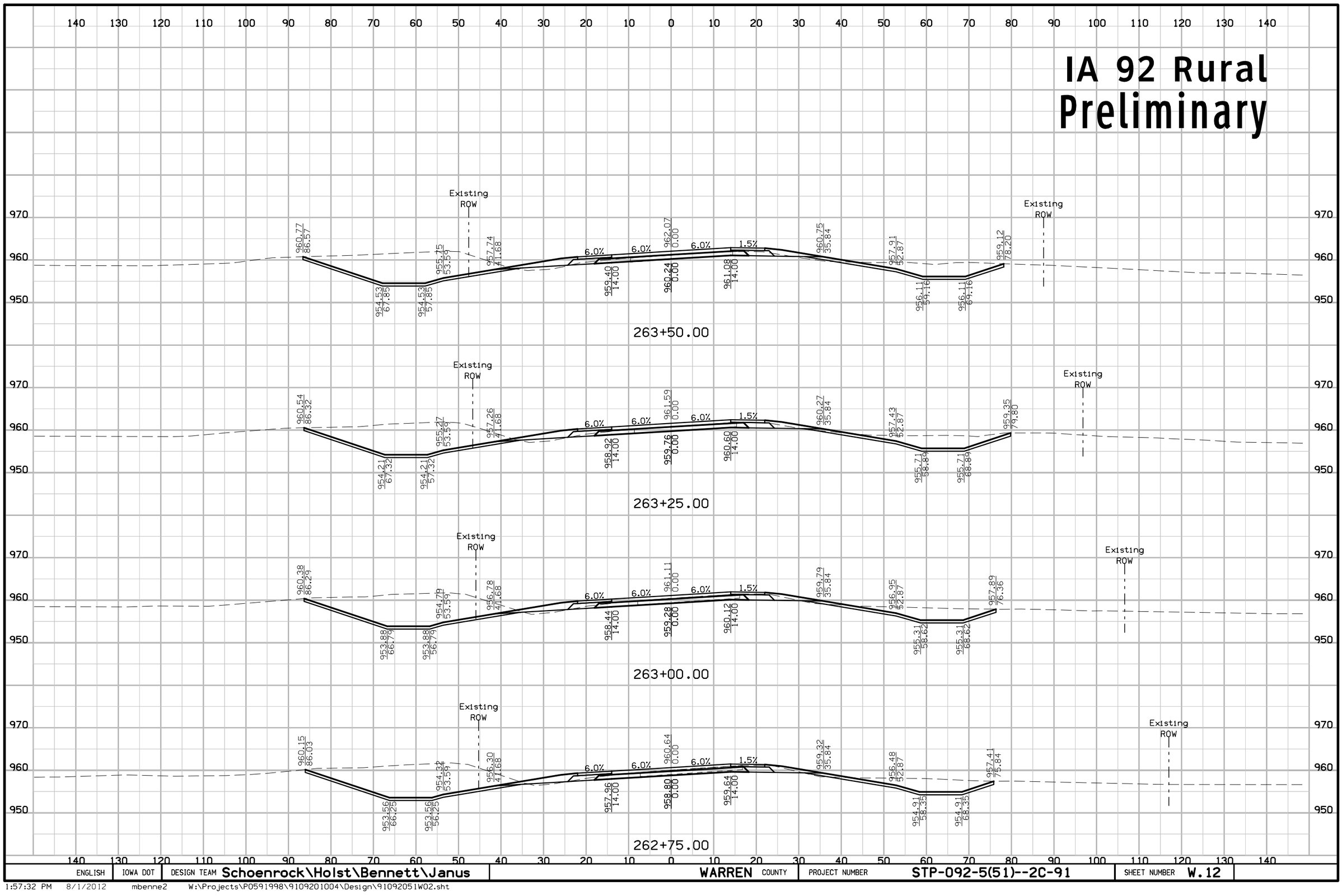
IA 92 Rural
Preliminary



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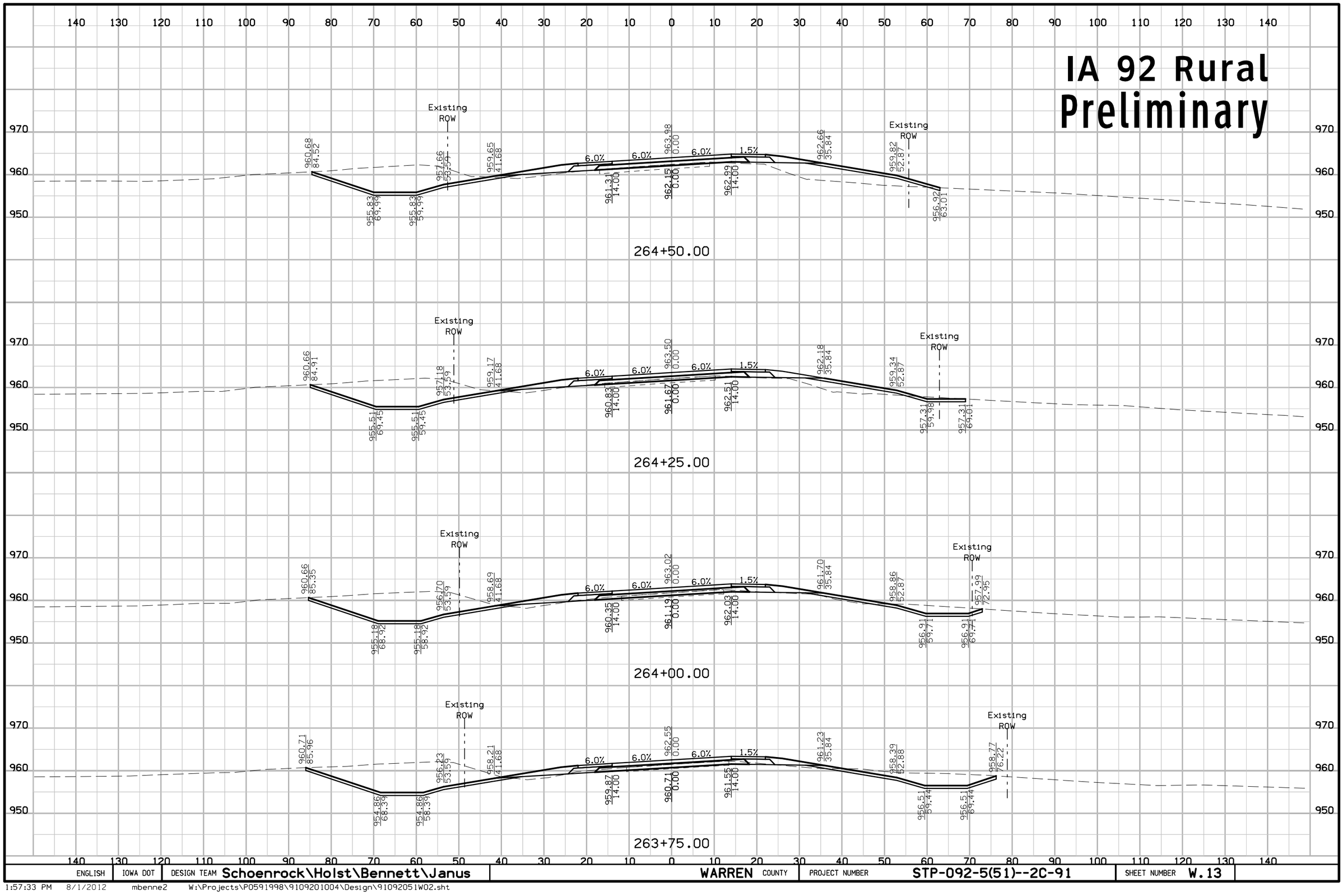
IA 92 Rural Preliminary



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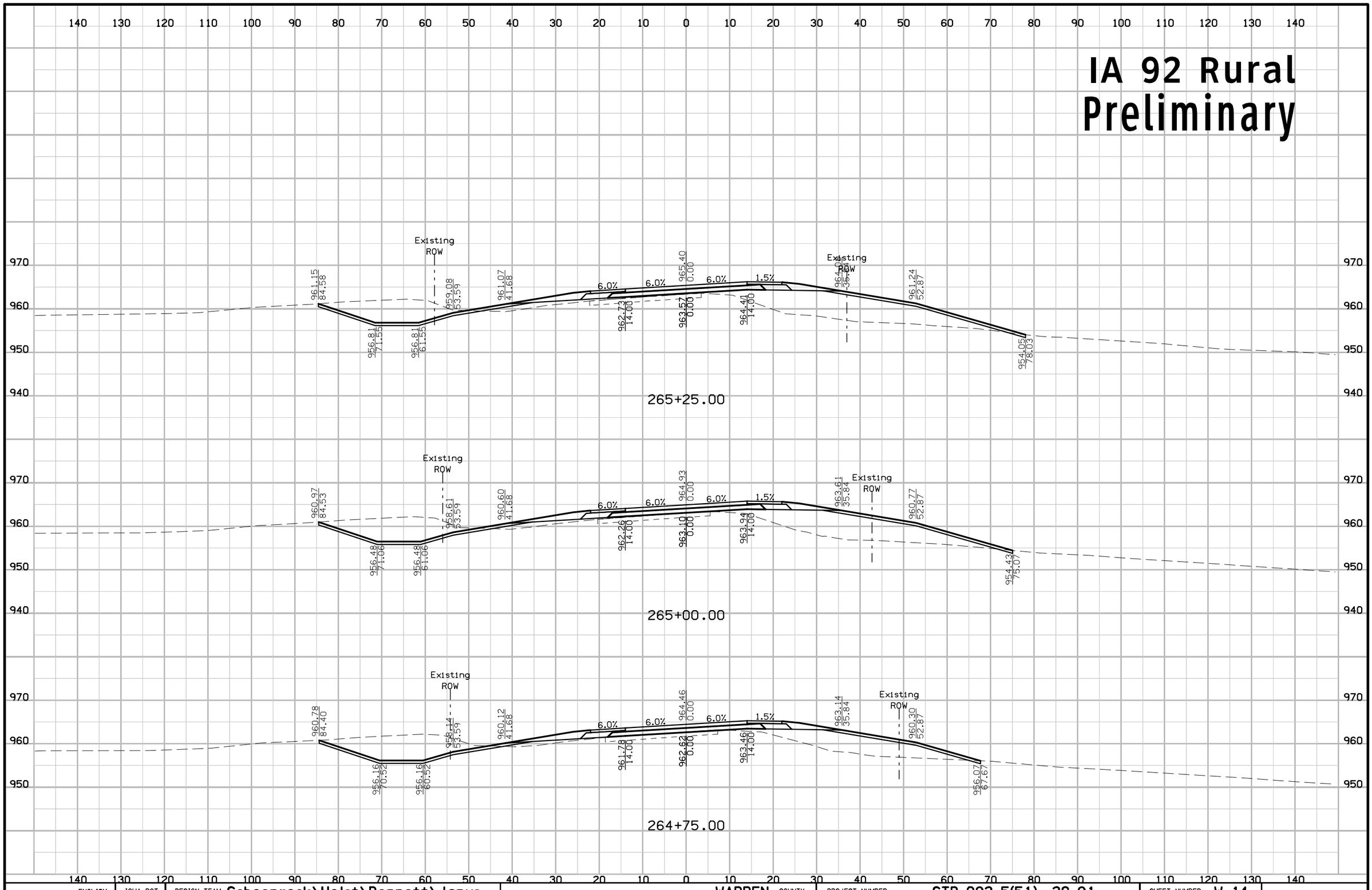
IA 92 Rural
Preliminary



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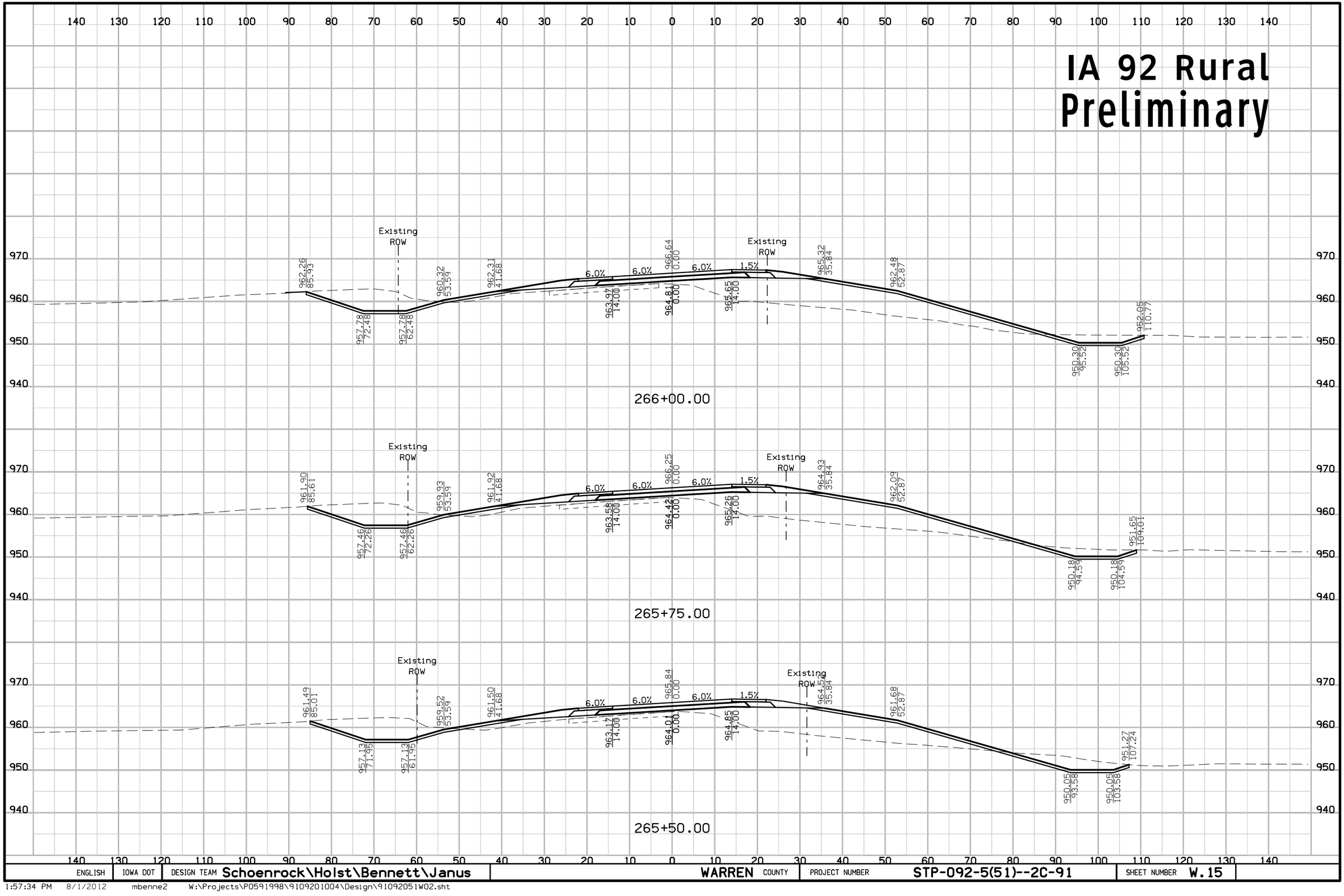
IA 92 Rural
Preliminary



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IA 92 Rural
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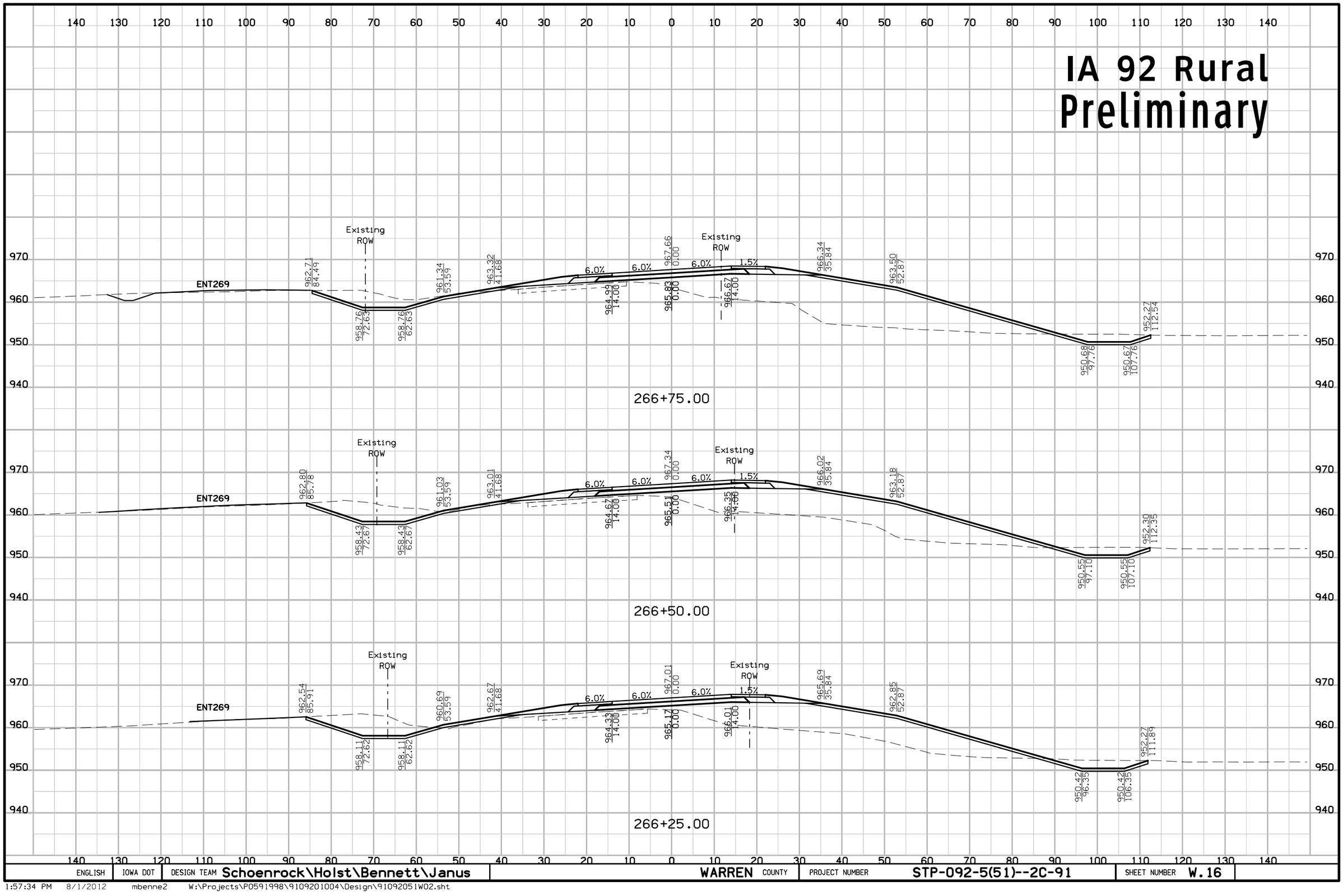

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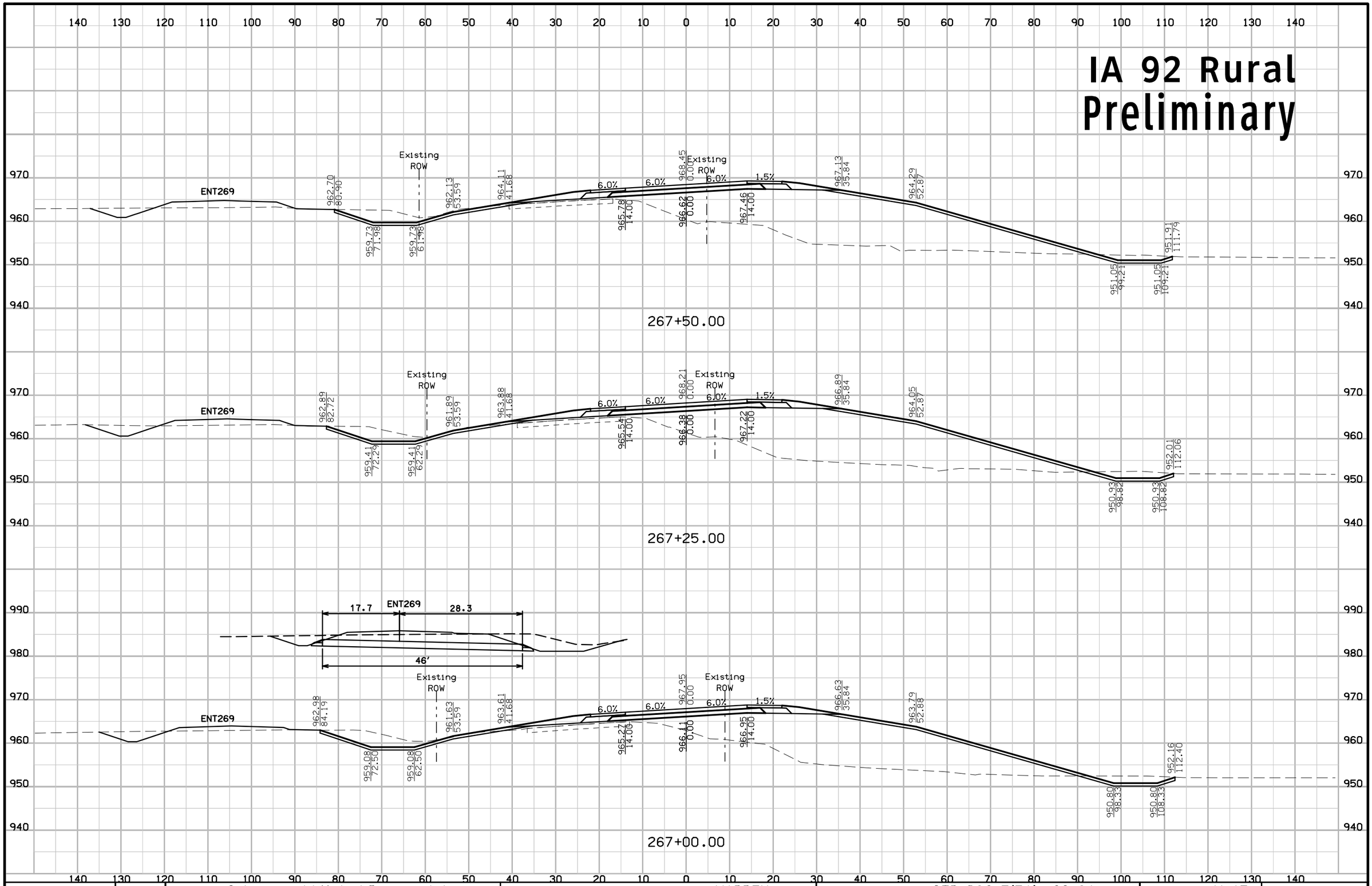

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IA 92 Rural
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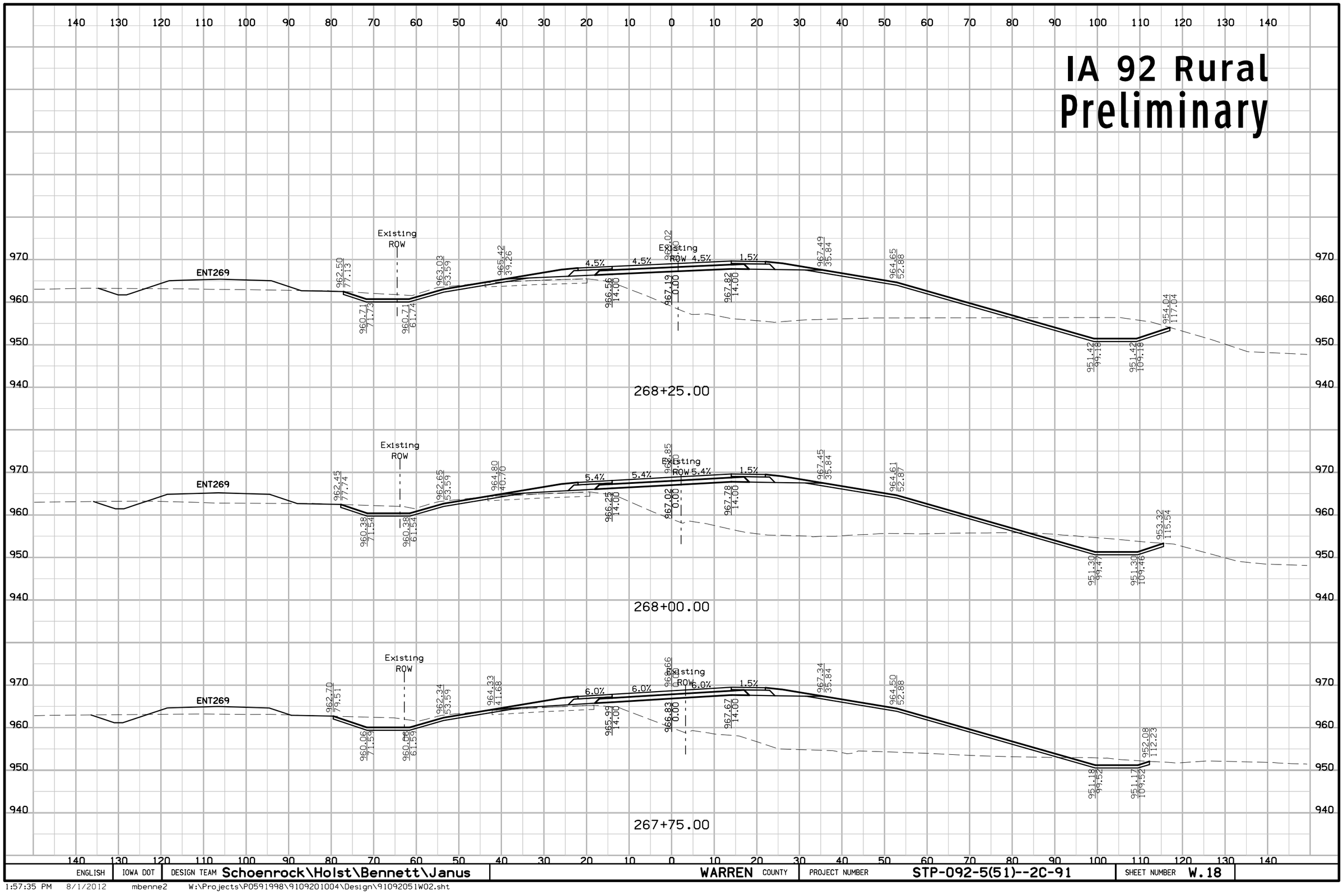

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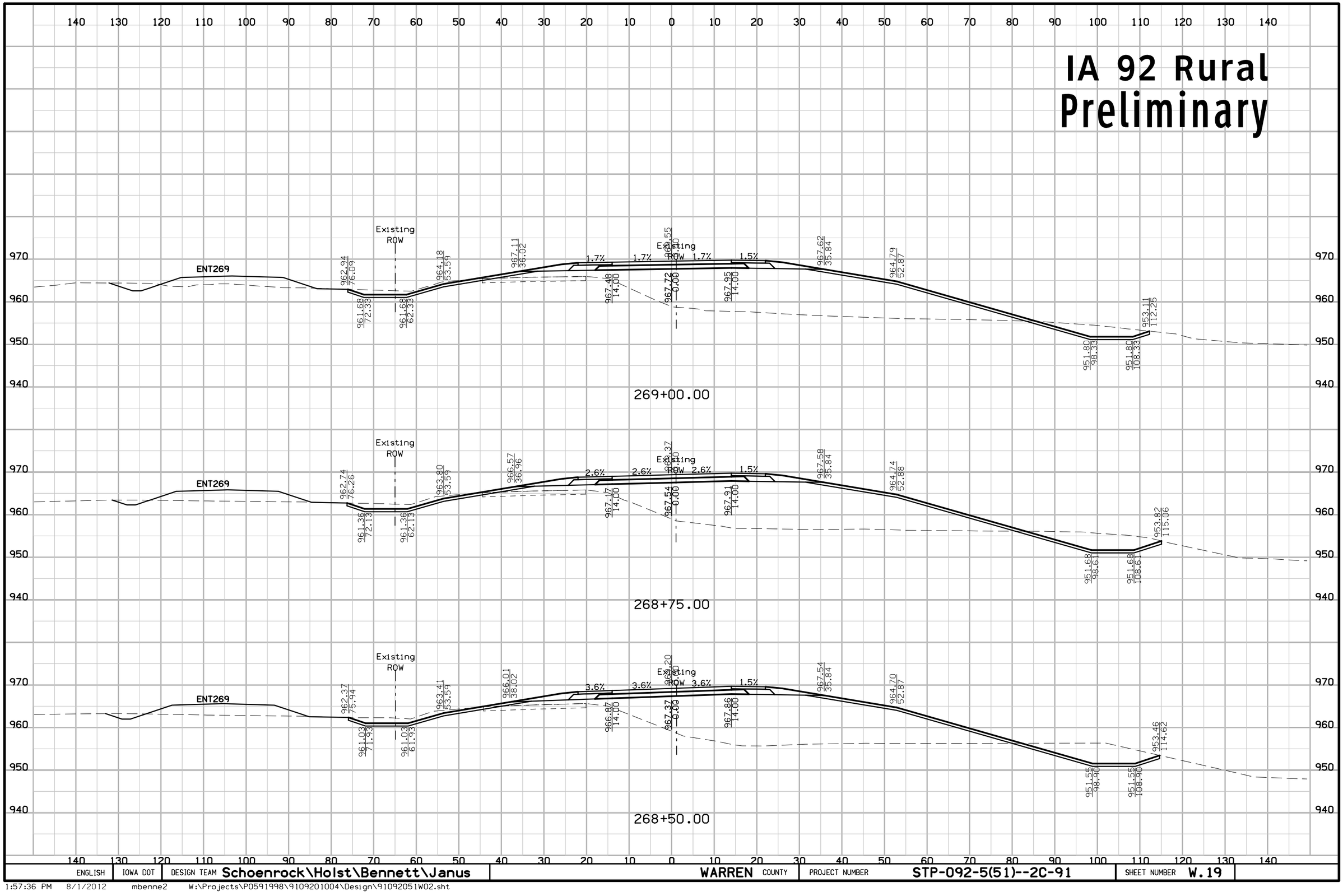

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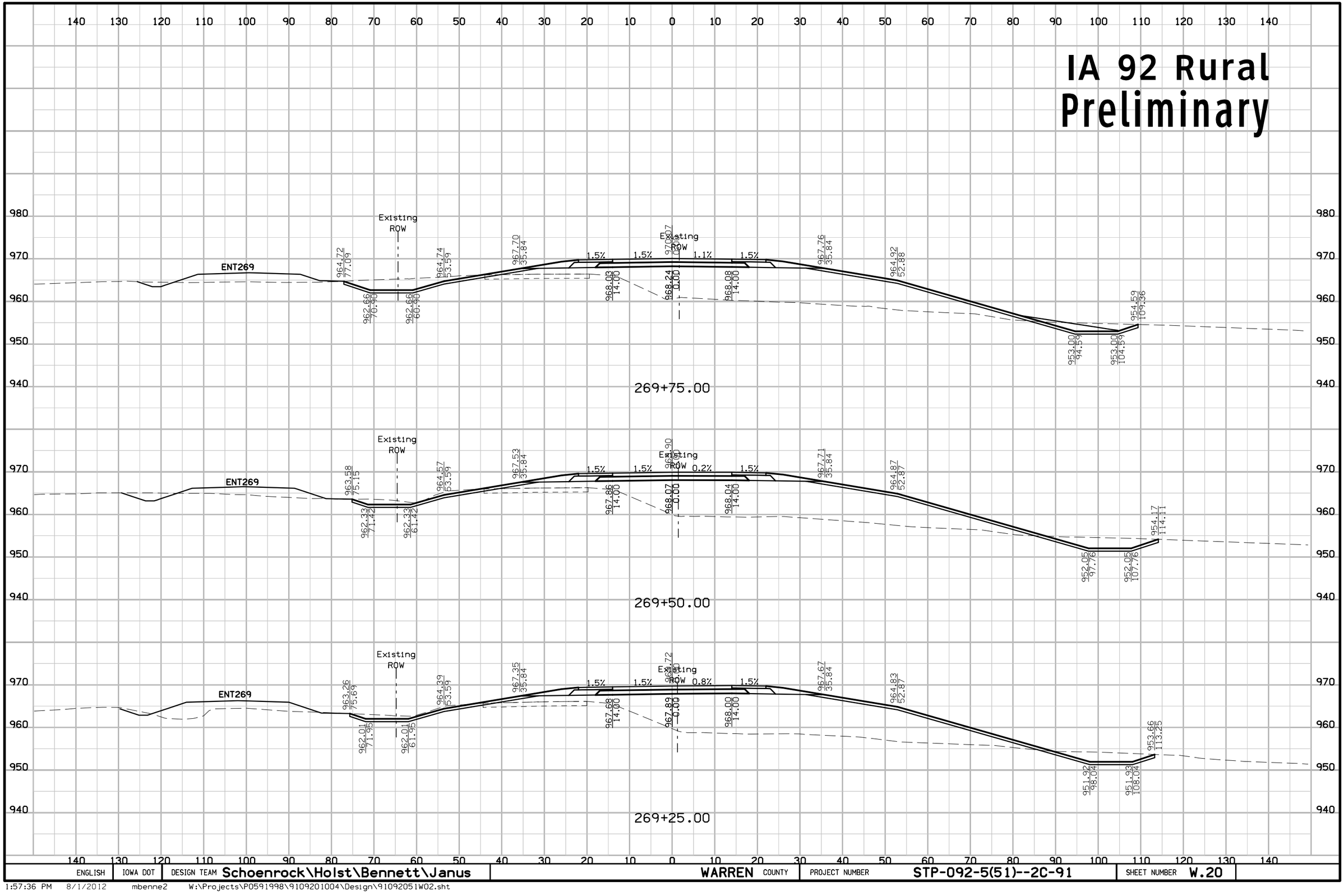
IA 92 Rural
Preliminary



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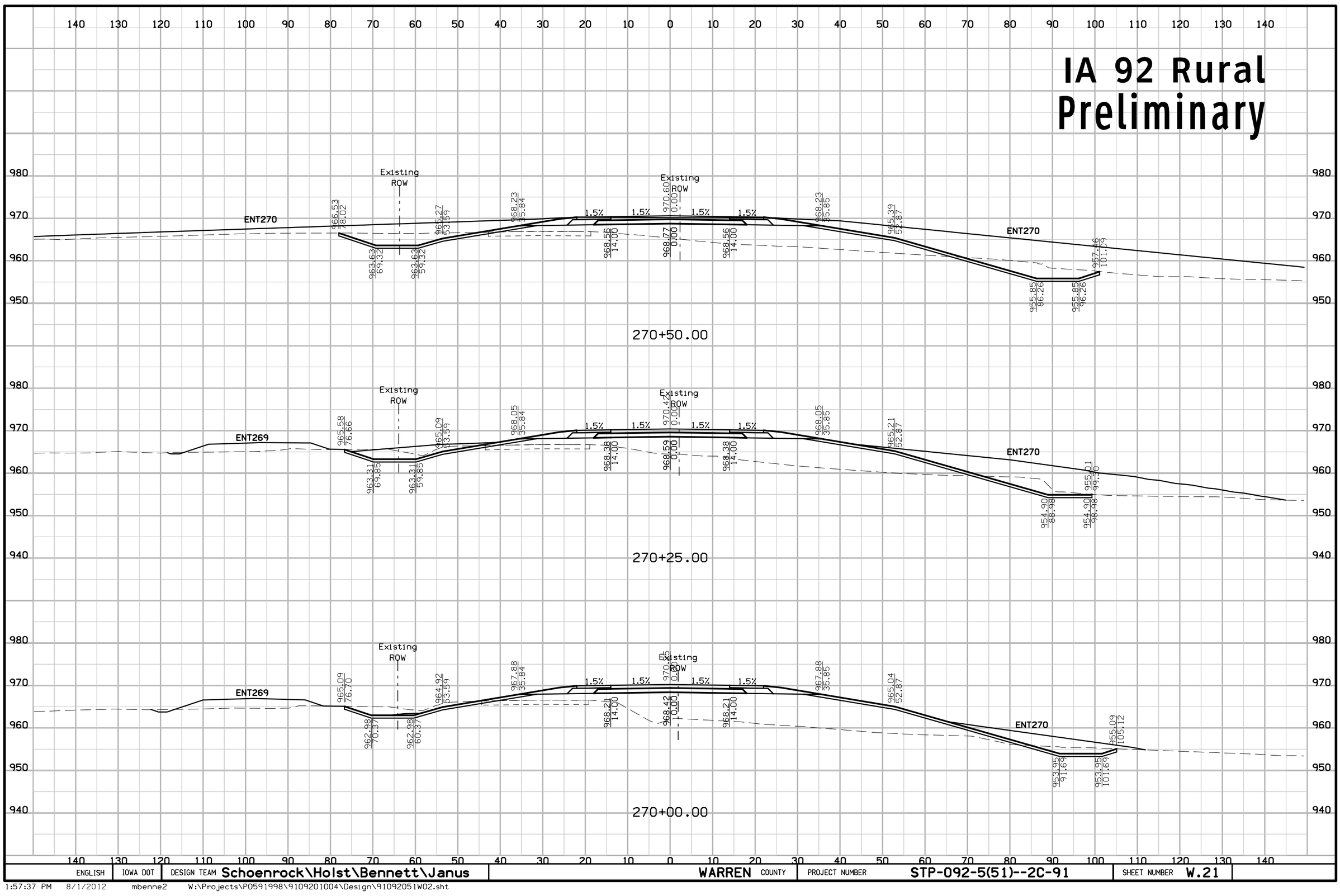
IA 92 Rural Preliminary



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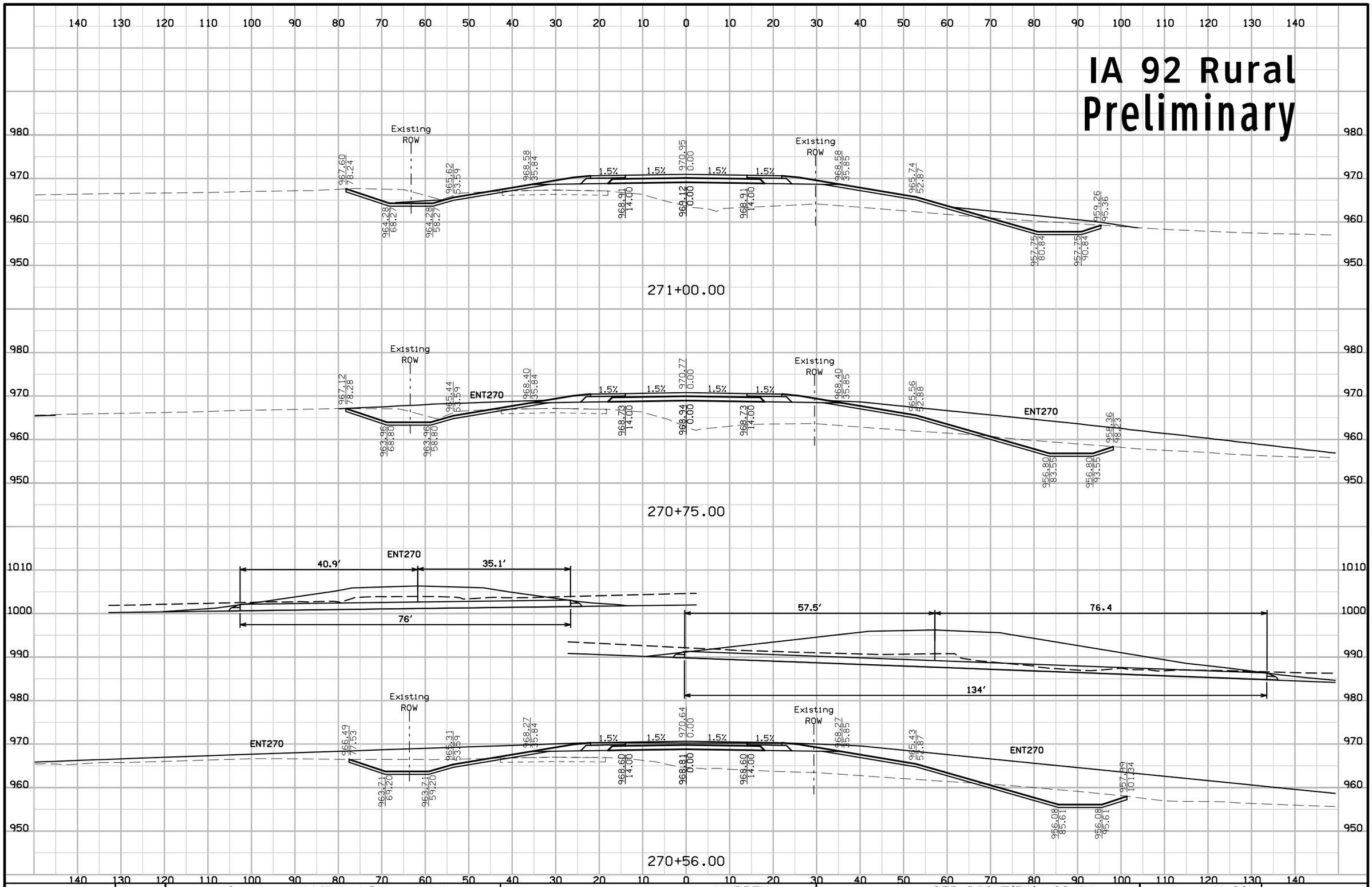
IA 92 Rural
Preliminary



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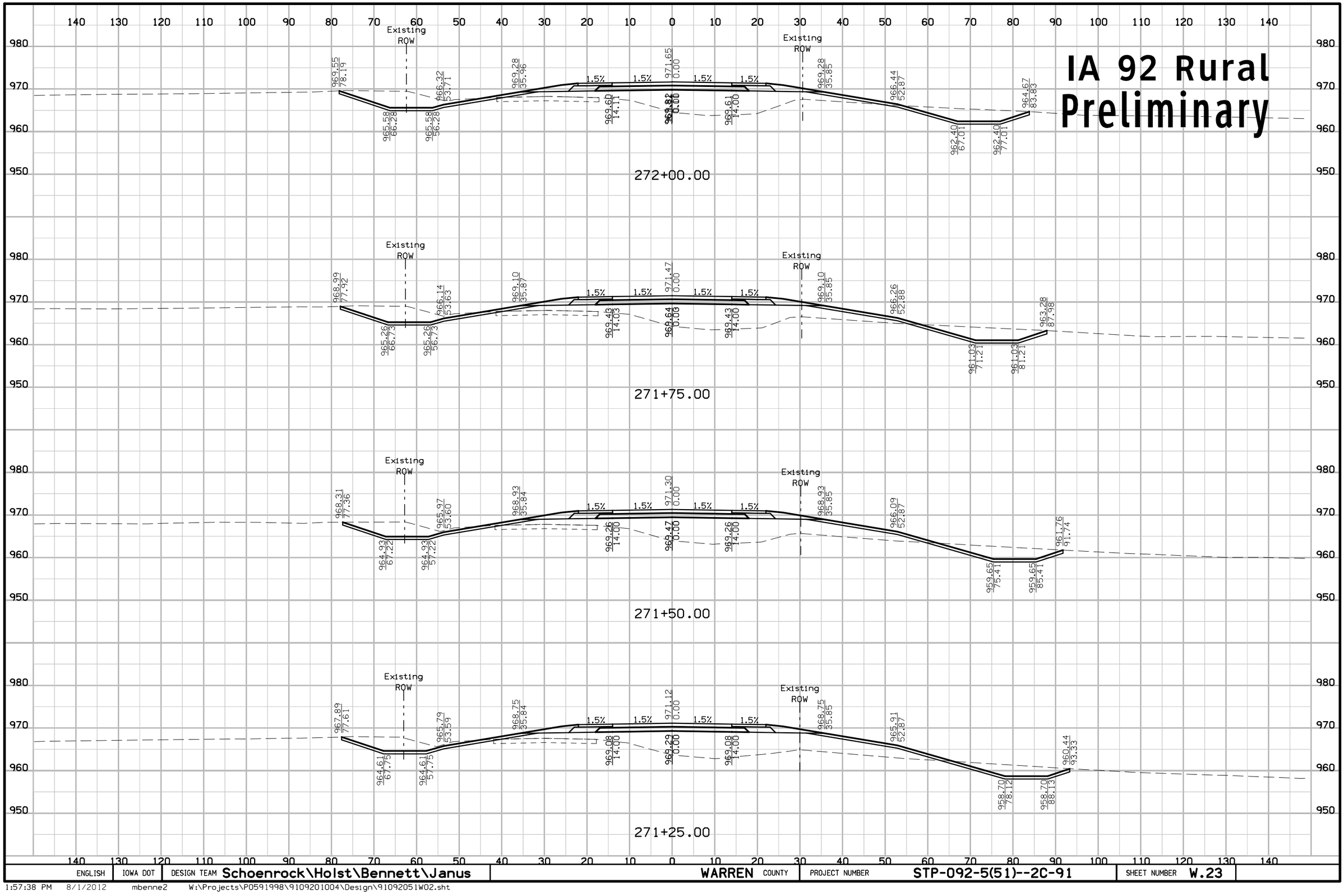
IA 92 Rural Preliminary



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IA 92 Rural
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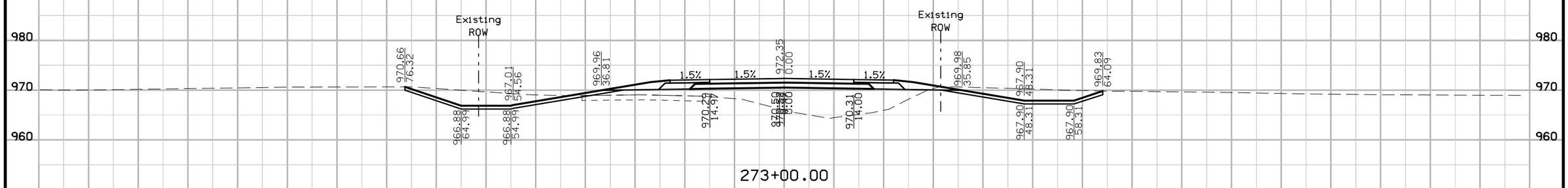

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IA 92 Rural
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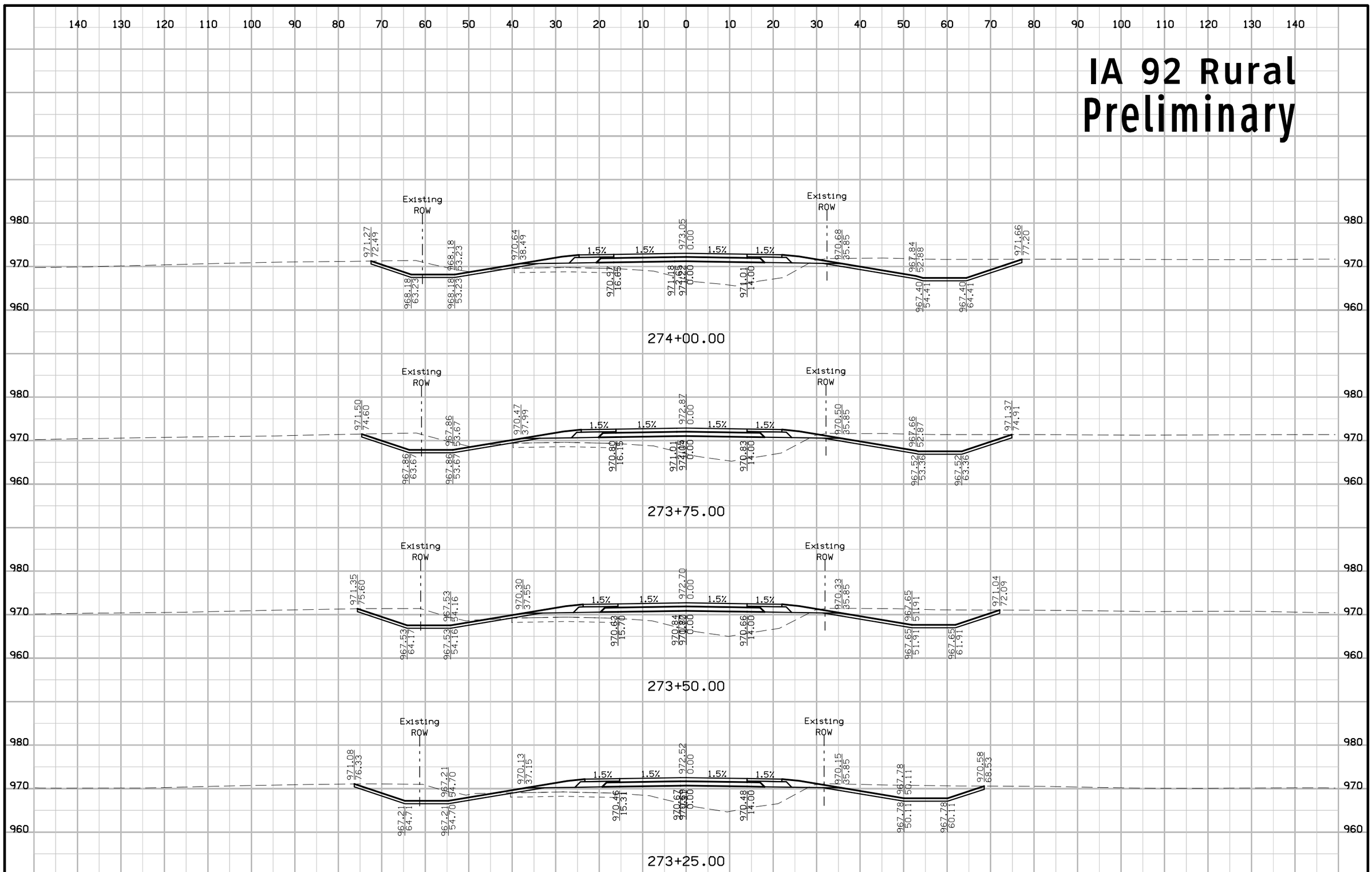

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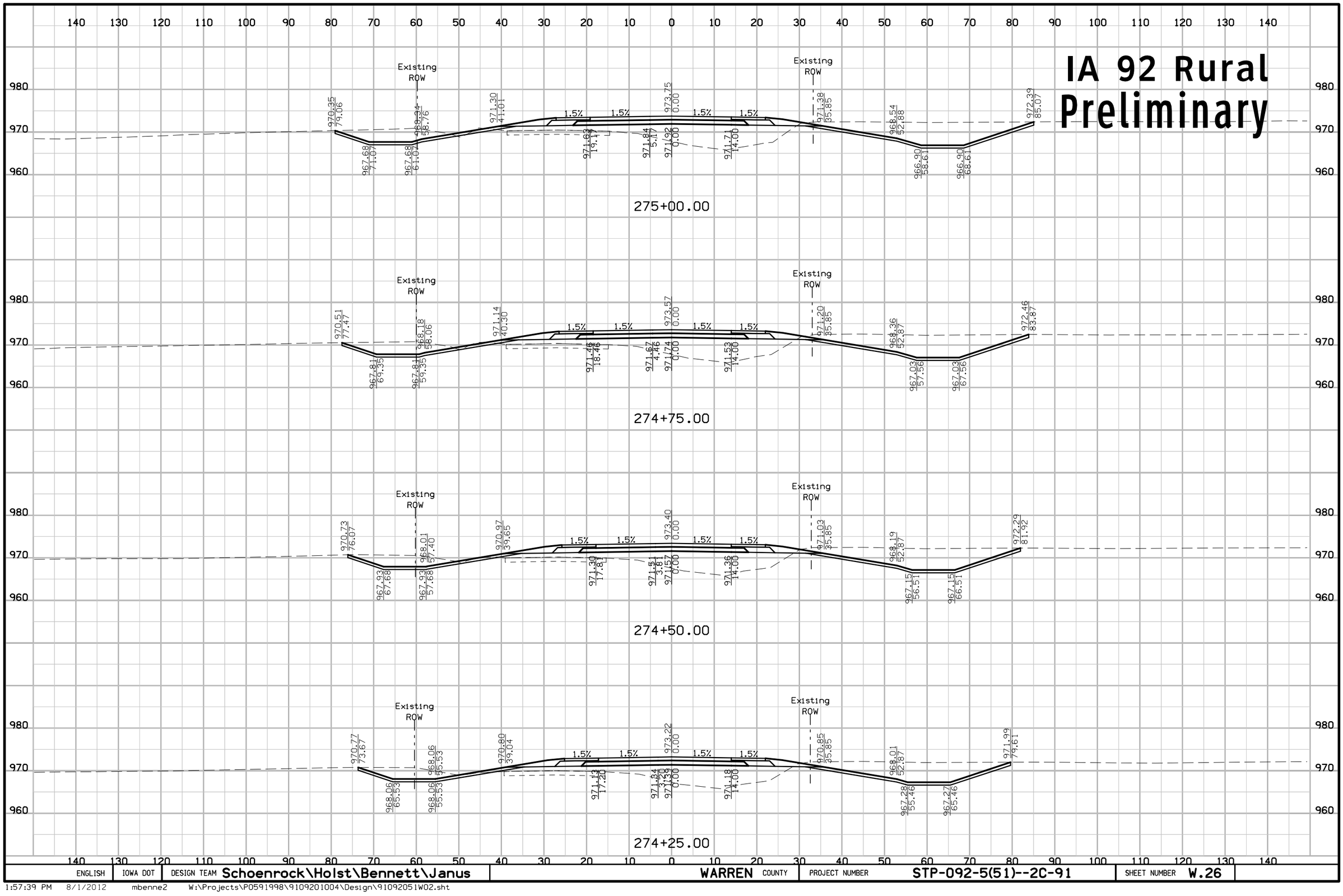
IA 92 Rural Preliminary



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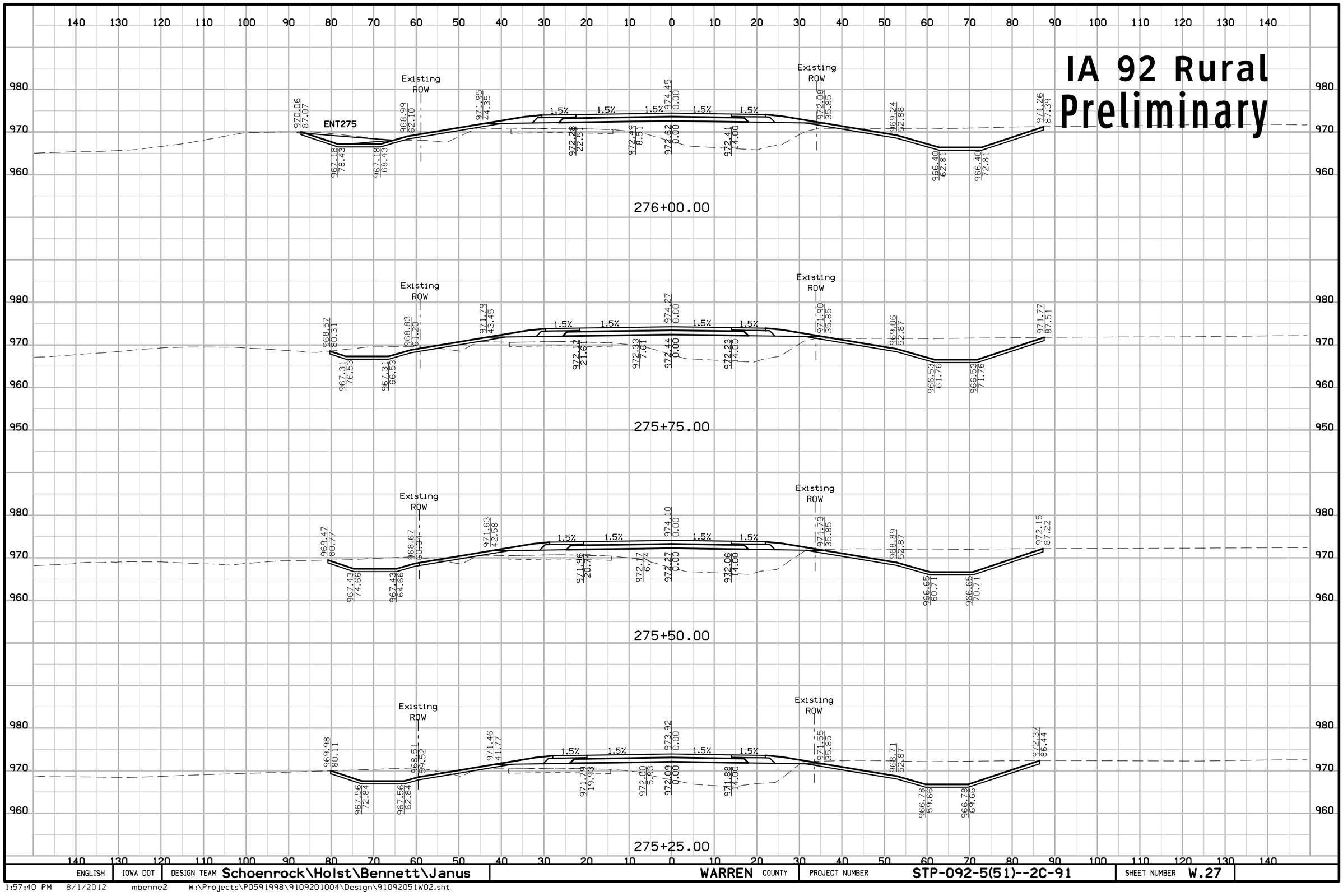
IA 92 Rural Preliminary



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IA 92 Rural
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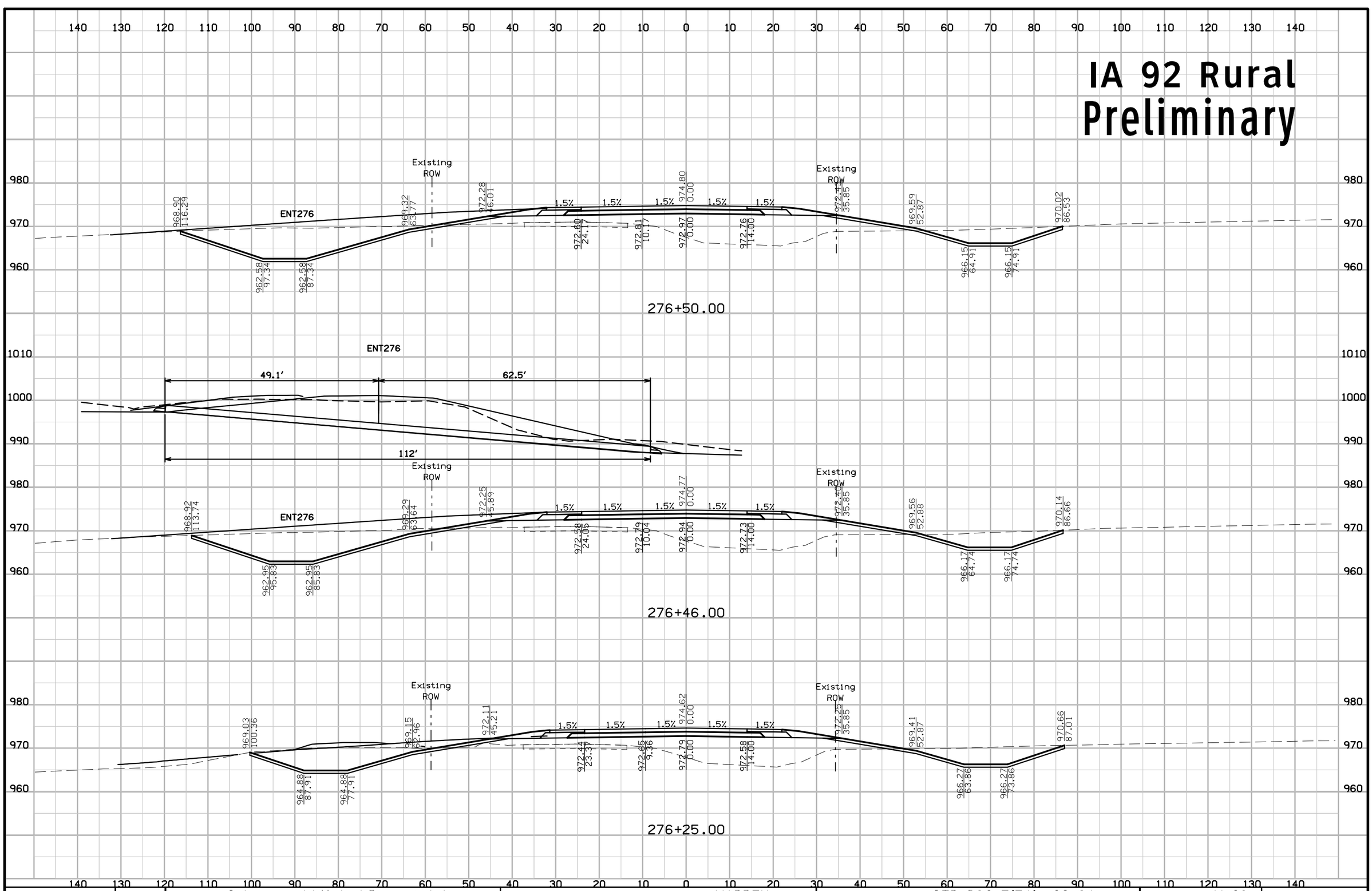

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IA 92 Rural
Preliminary

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980 970 960 950 940

958.08 122.36
957.23 119.81
957.23 109.81
969.79 65.87
Existing ROW
972.74 48.12
1.5% 1.5% 1.5% 1.5% 1.5%
975.30 0.00
973.07 26.27
973.28 12.27
973.47 0.00
973.26 14.00
Existing ROW
972.80 35.85
970.09 52.87
965.78 67.97
965.78 77.97
968.42 85.91

277+25.00

980 970 960 950

960.28 122.93
957.98 116.03
957.98 106.03
969.64 65.22
Existing ROW
972.60 47.47
1.5% 1.5% 1.5% 1.5% 1.5%
975.15 0.00
972.98 25.63
973.14 11.63
973.31 0.00
973.10 14.00
Existing ROW
972.65 35.85
969.94 52.87
965.90 67.00
965.90 77.01
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277+00.00

980 970 960 950

962.41 113.09
960.28 106.71
960.28 96.71
969.48 64.52
Existing ROW
972.44 46.77
1.5% 1.5% 1.5% 1.5% 1.5%
974.97 0.00
972.77 24.92
972.98 10.92
973.14 0.00
972.93 14.00
Existing ROW
972.65 35.85
969.76 52.87
966.02 65.96
966.02 75.96
969.52 86.45

276+75.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.29

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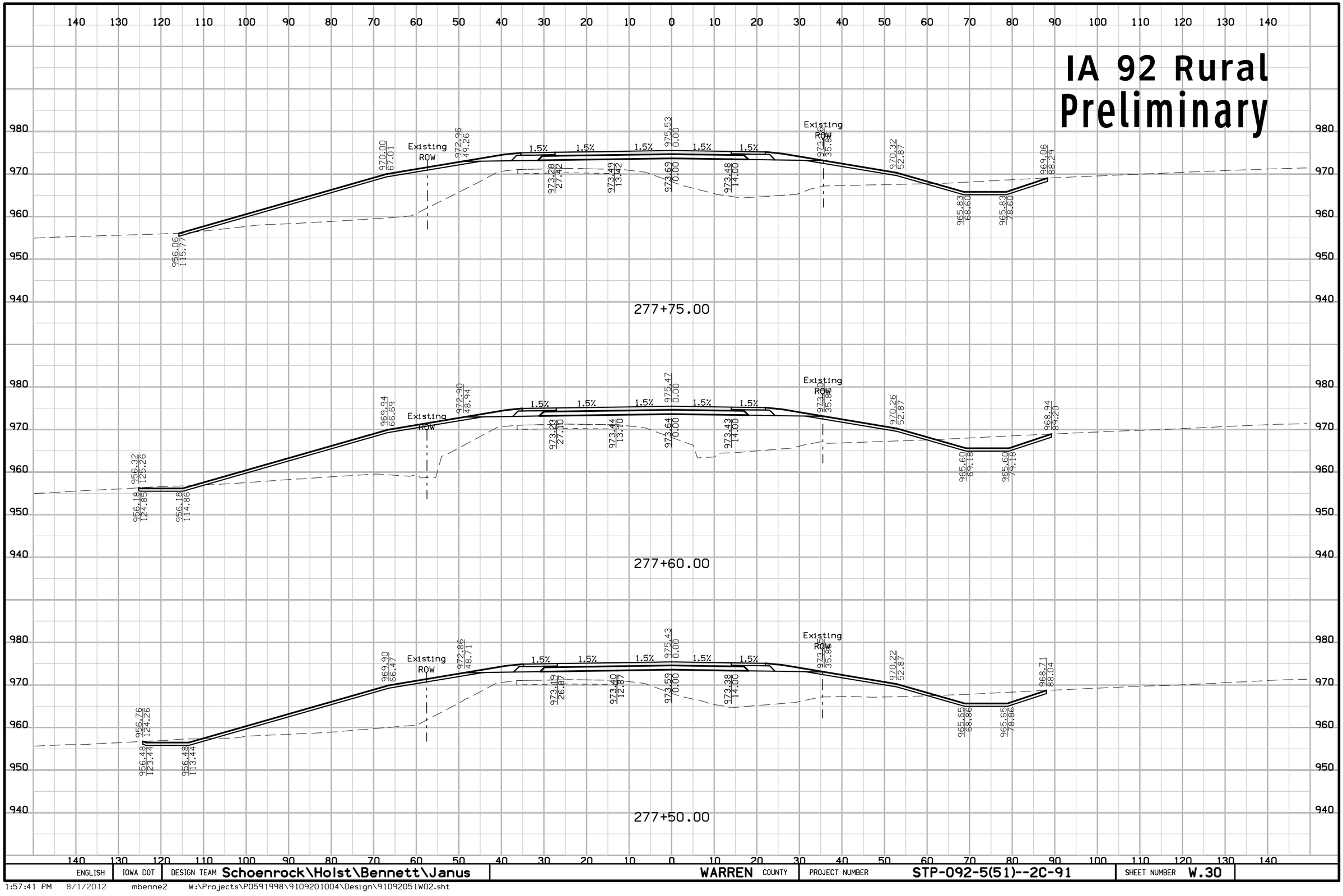
IA 92 Rural Preliminary



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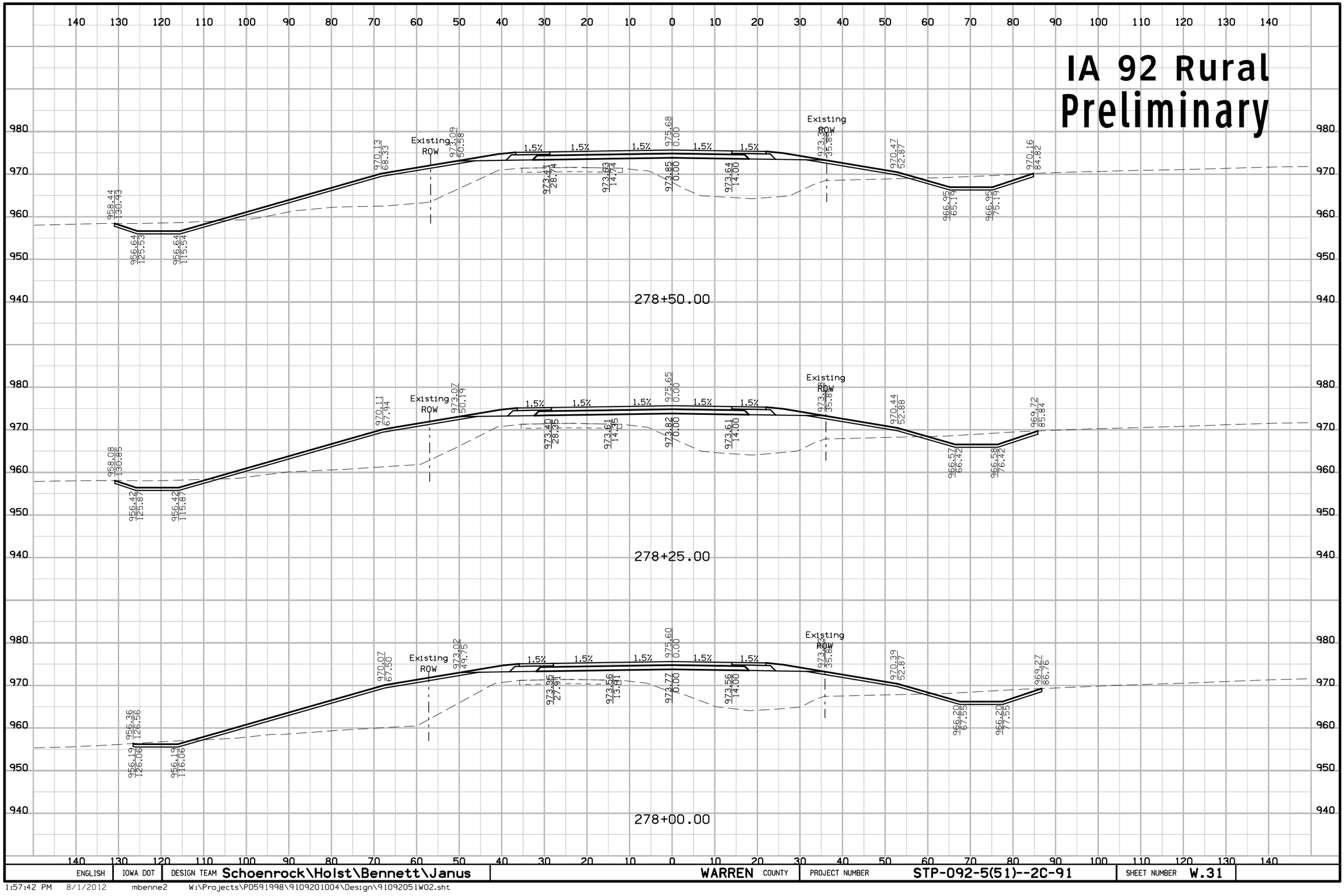
IA 92 Rural Preliminary



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IA 92 Rural
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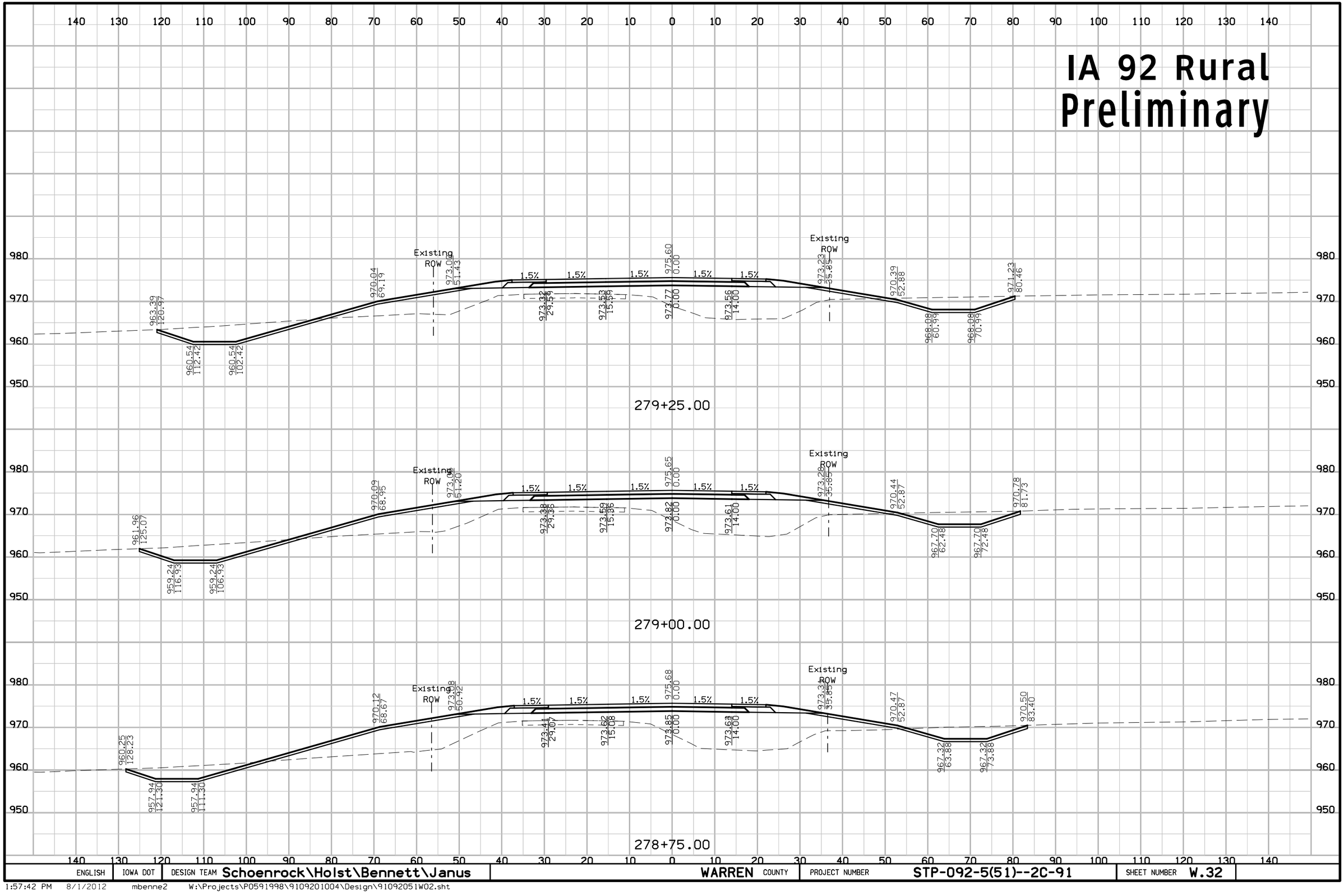

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IA 92 Rural
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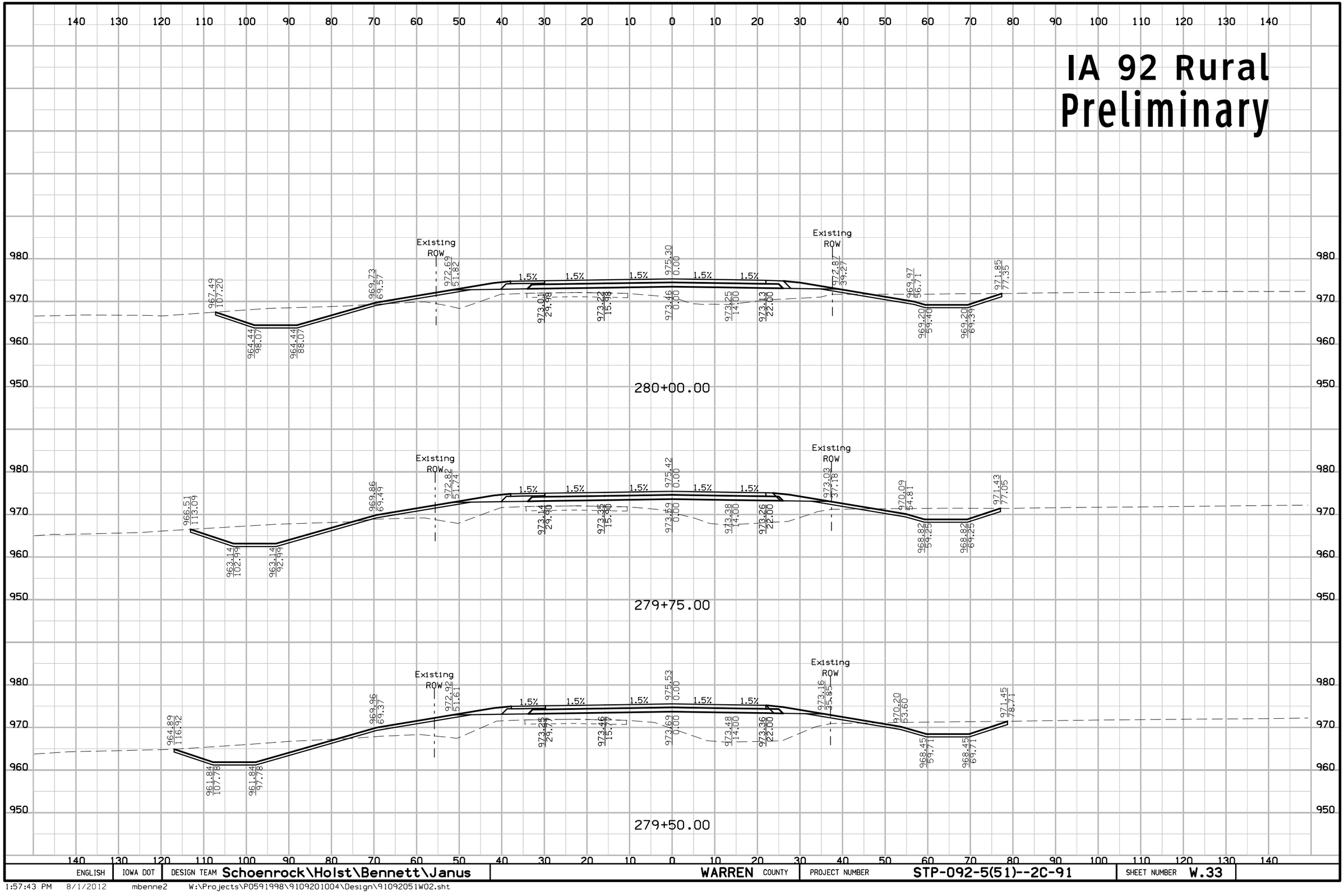

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IA 92 Rural
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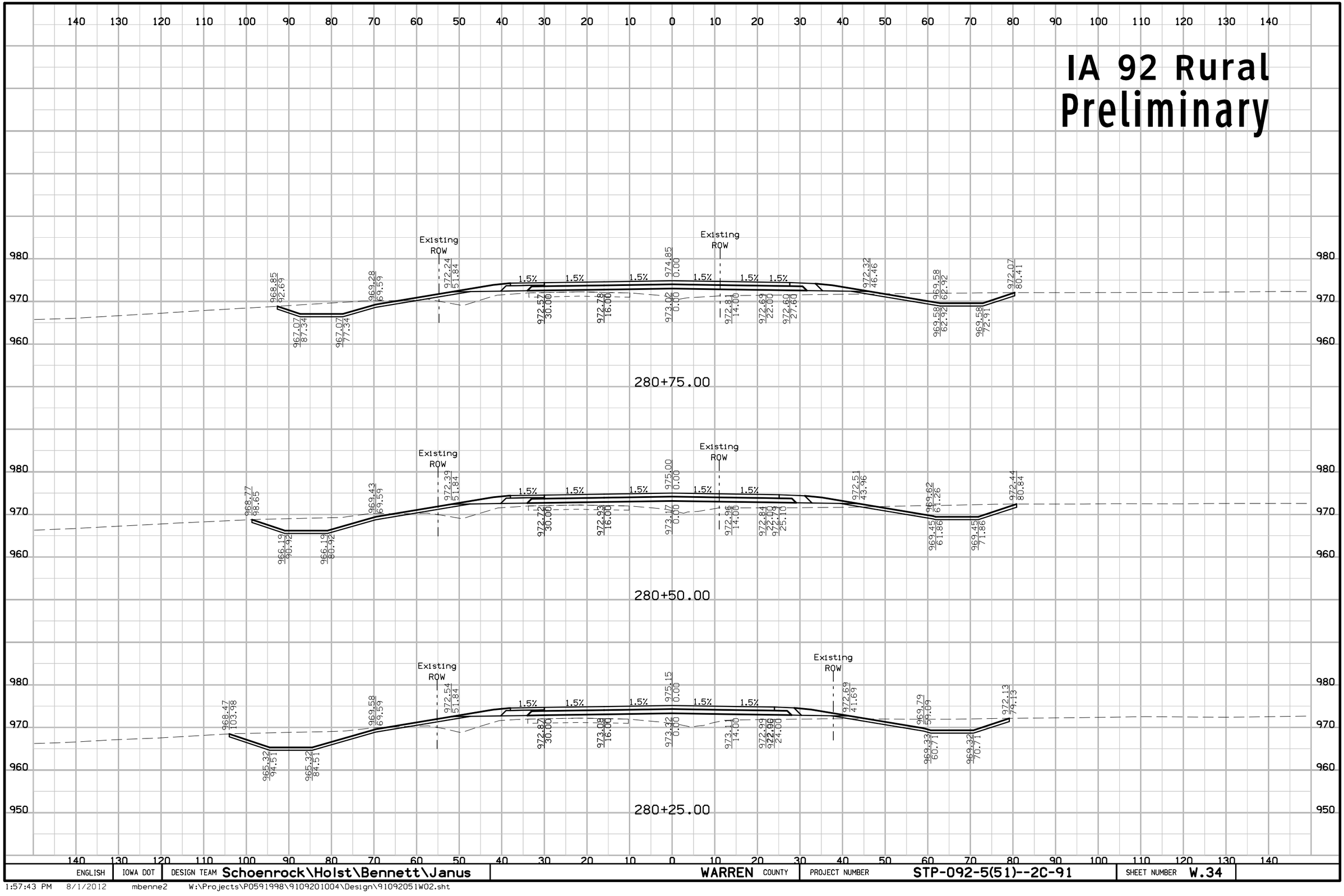

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IA 92 Rural
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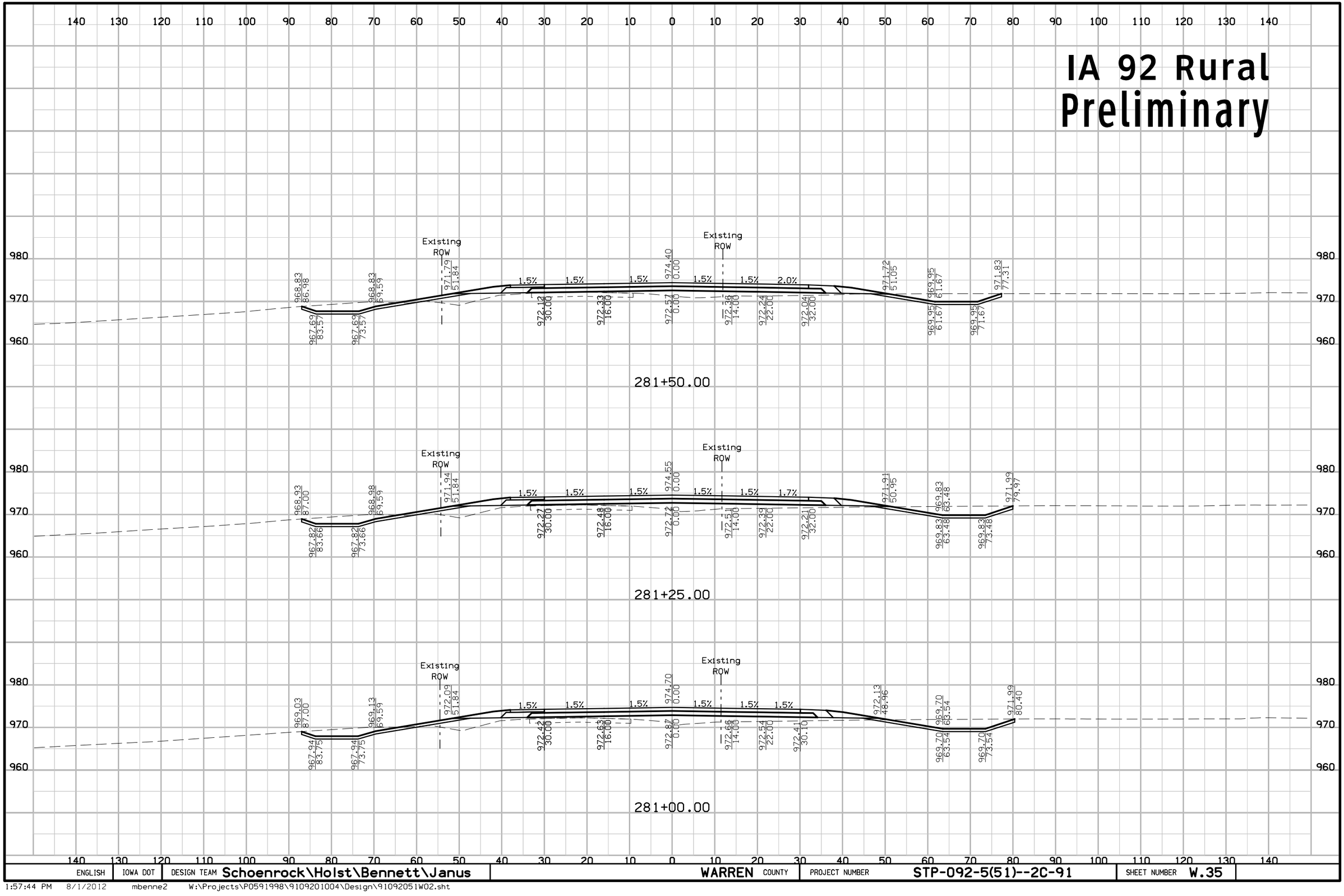

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IA 92 Rural
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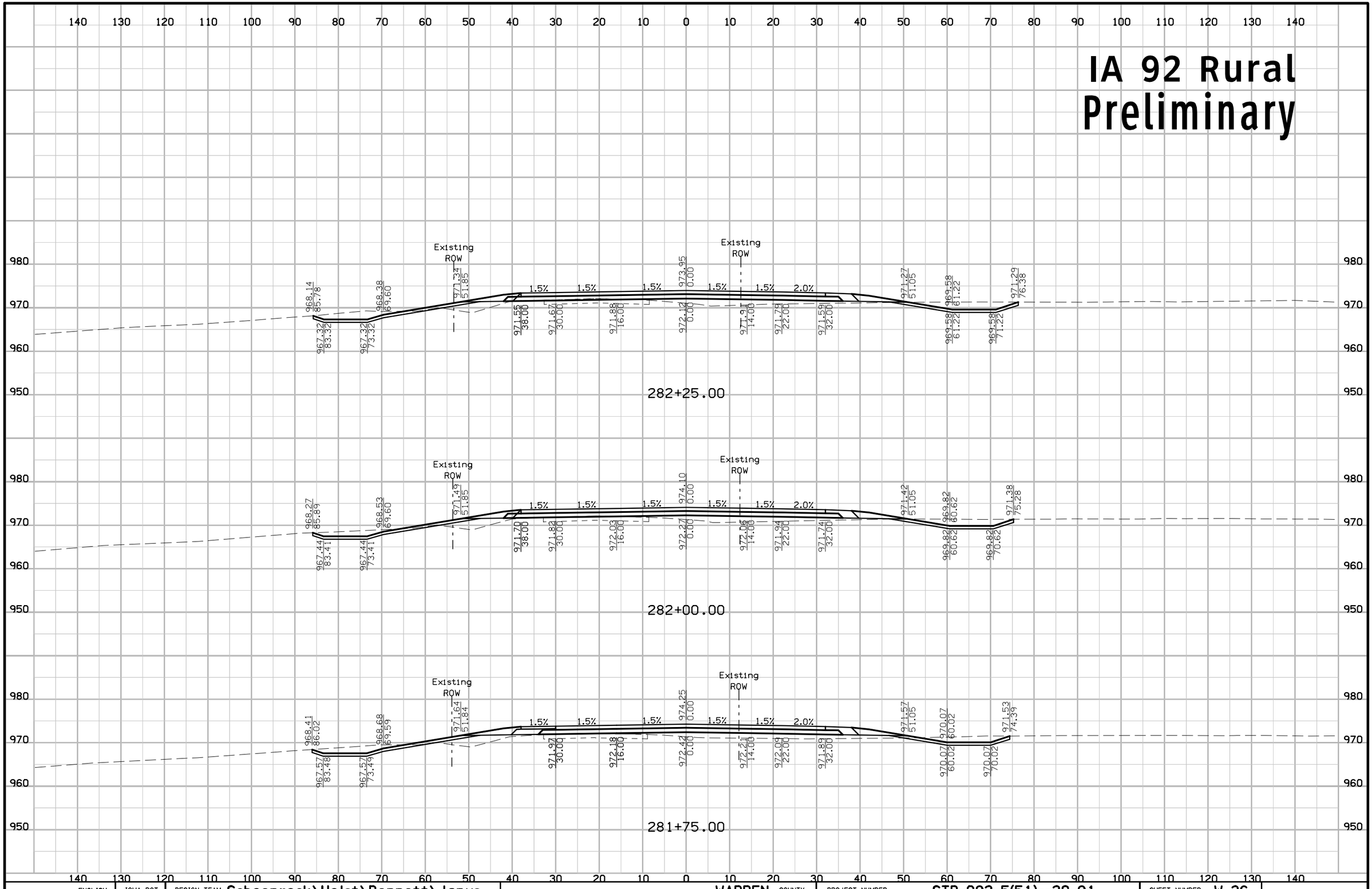

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IA 92 Rural
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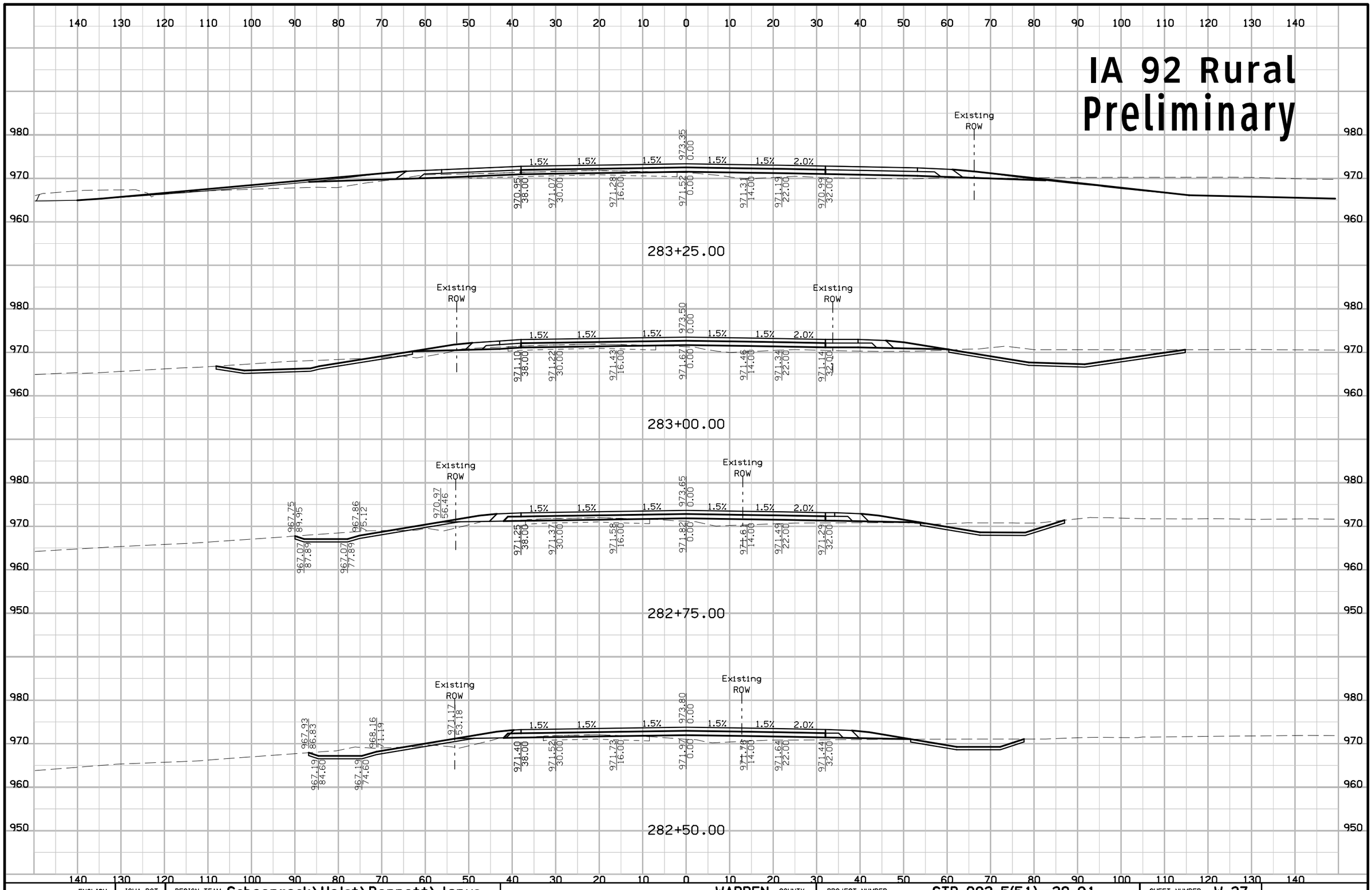

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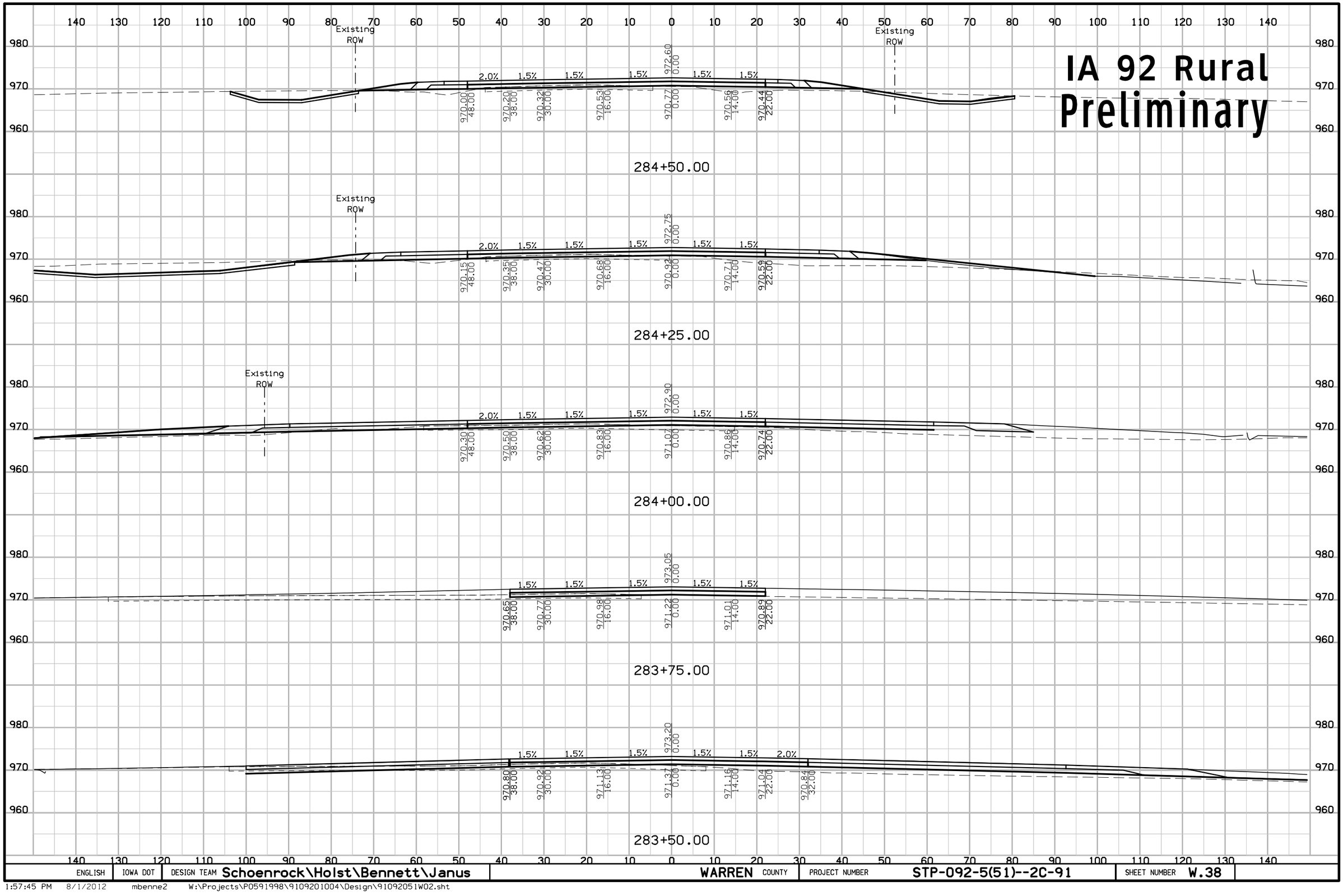
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.38

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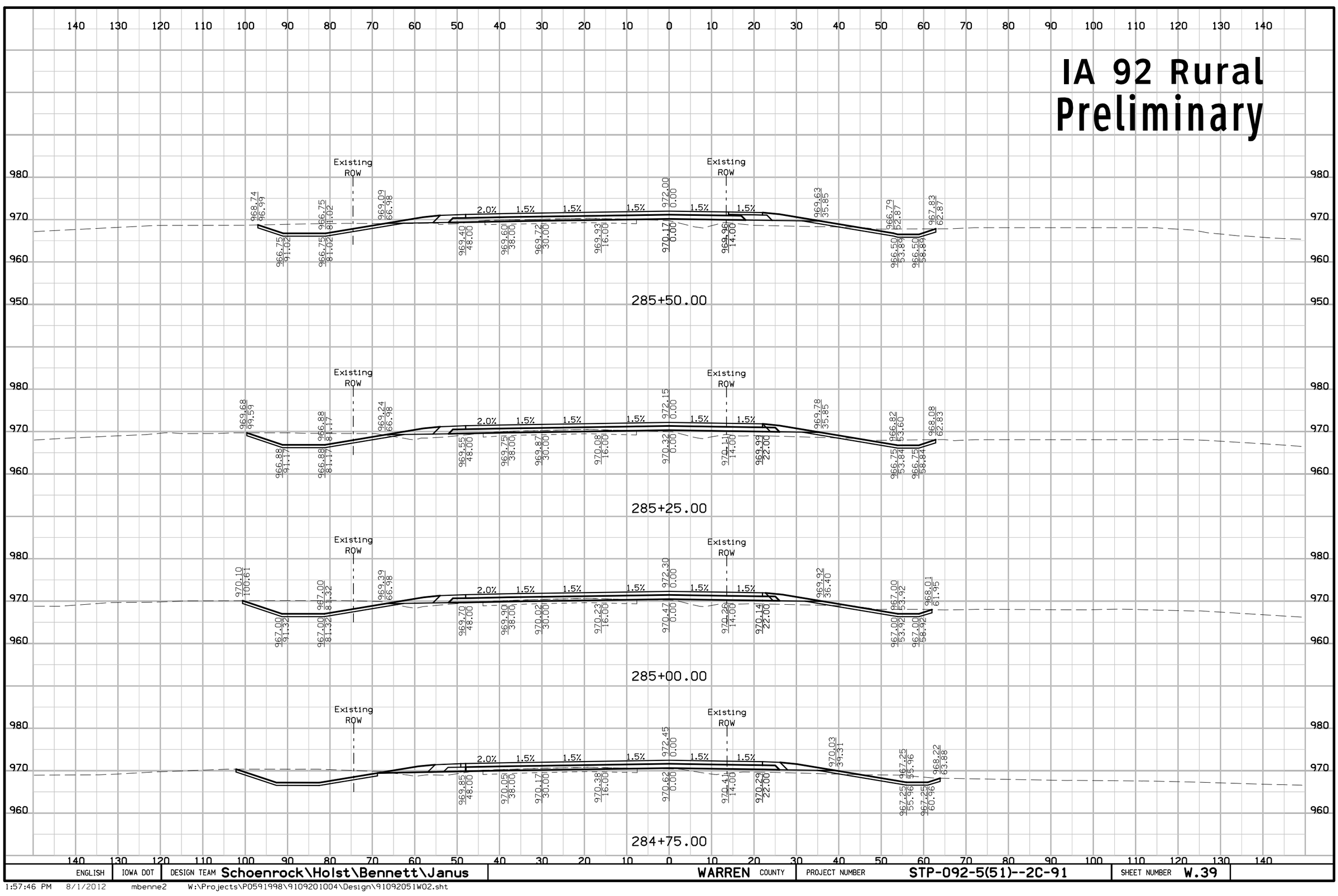
IA 92 Rural
Preliminary



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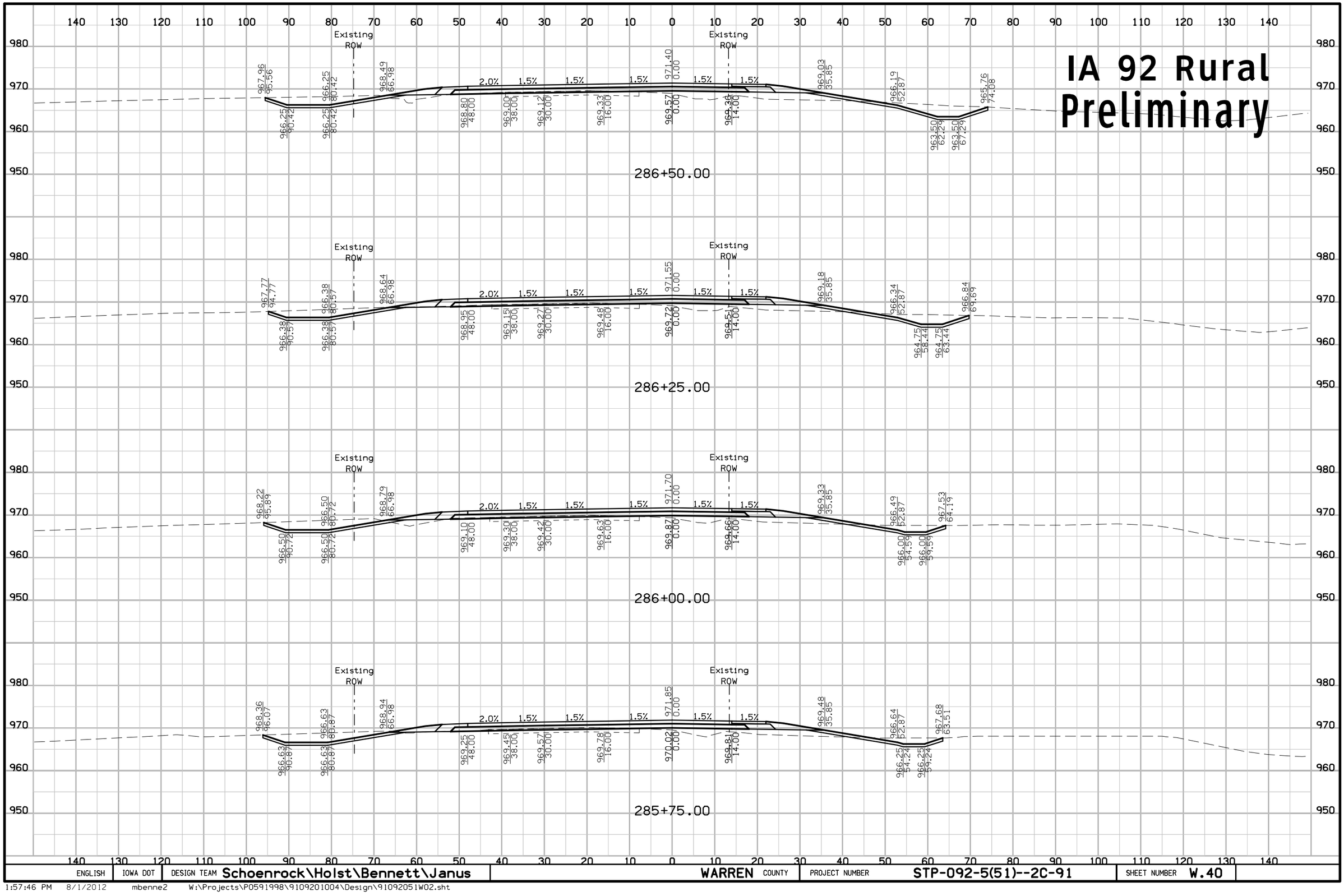
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.40

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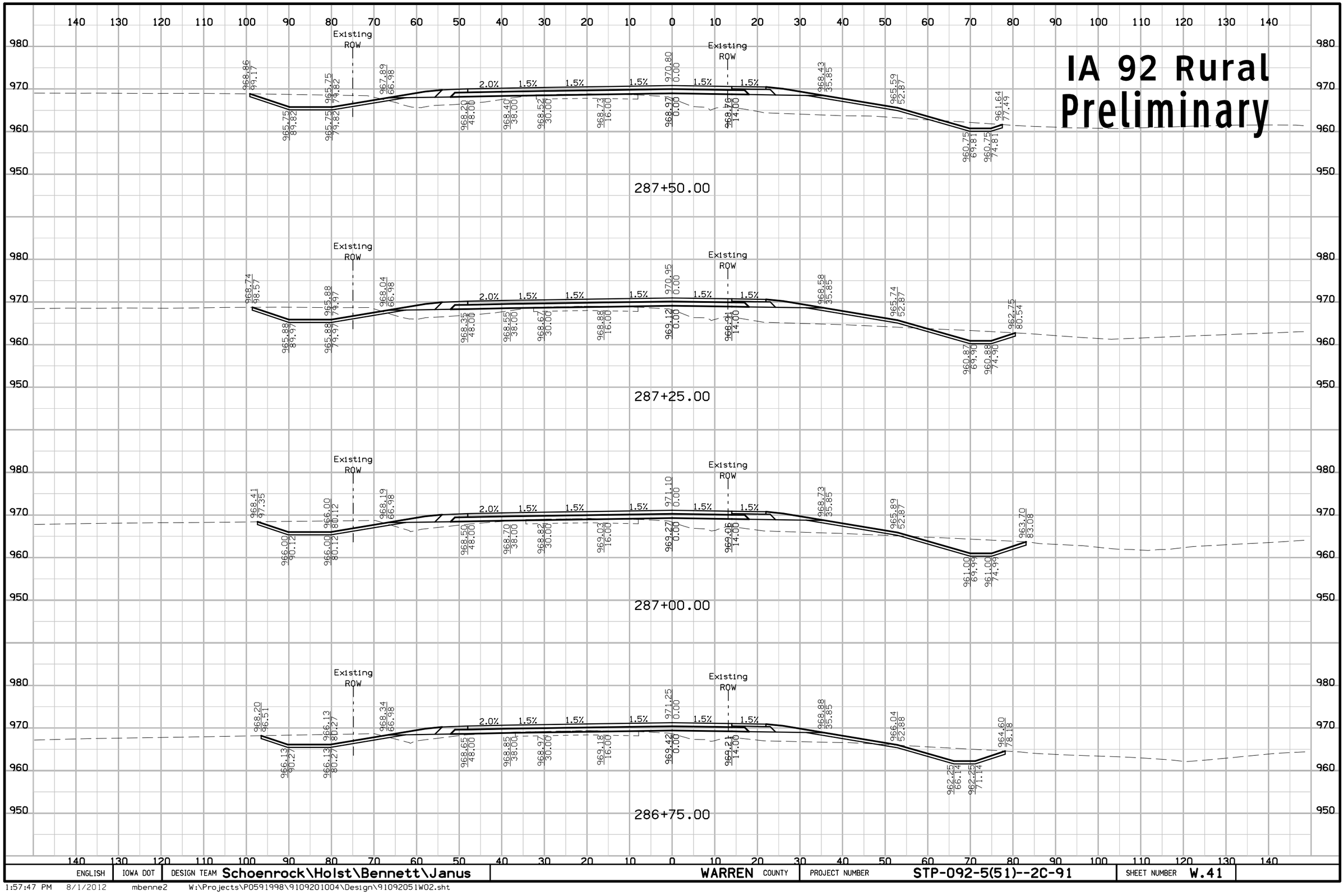
IA 92 Rural Preliminary



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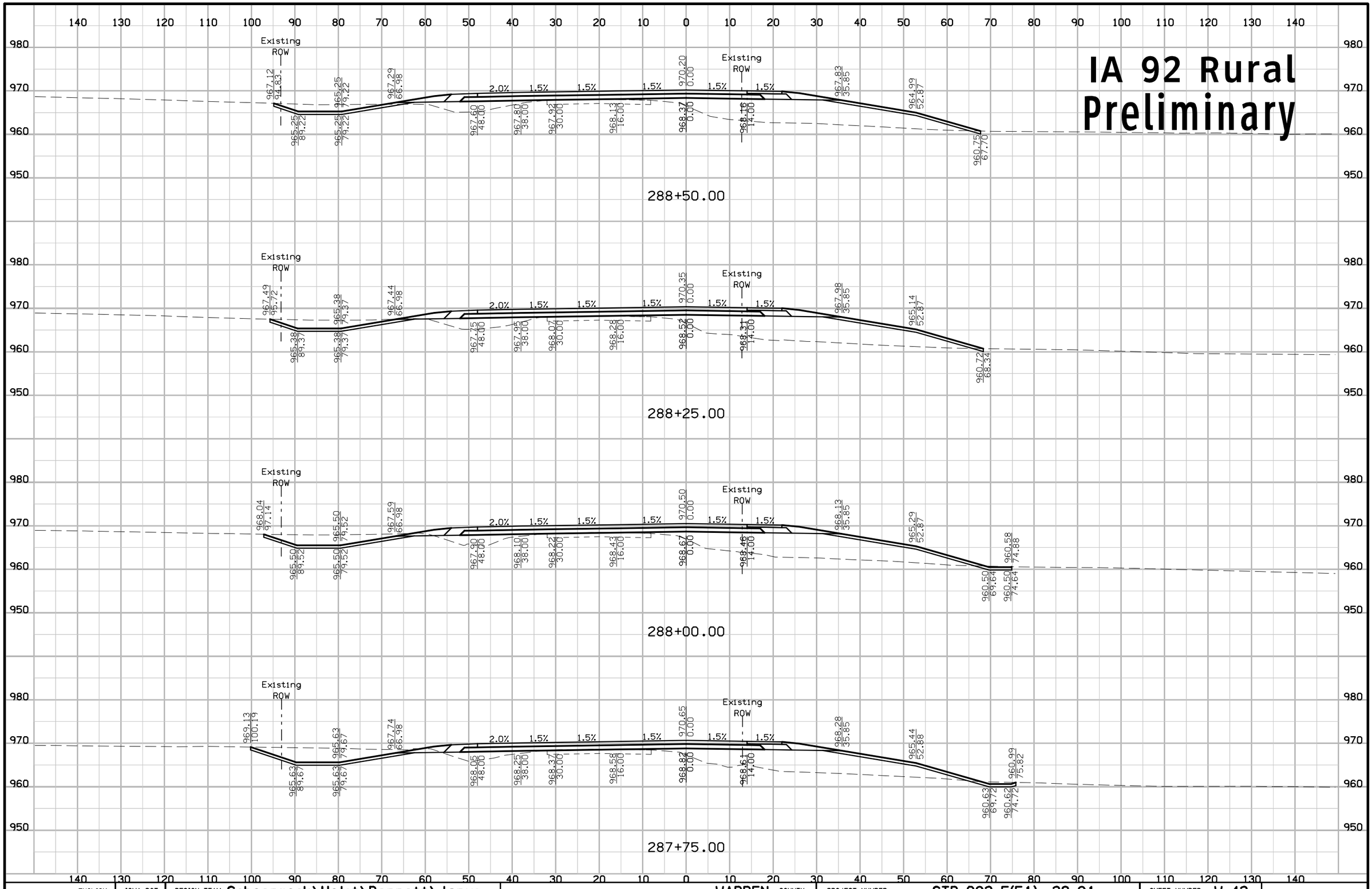
IA 92 Rural
Preliminary



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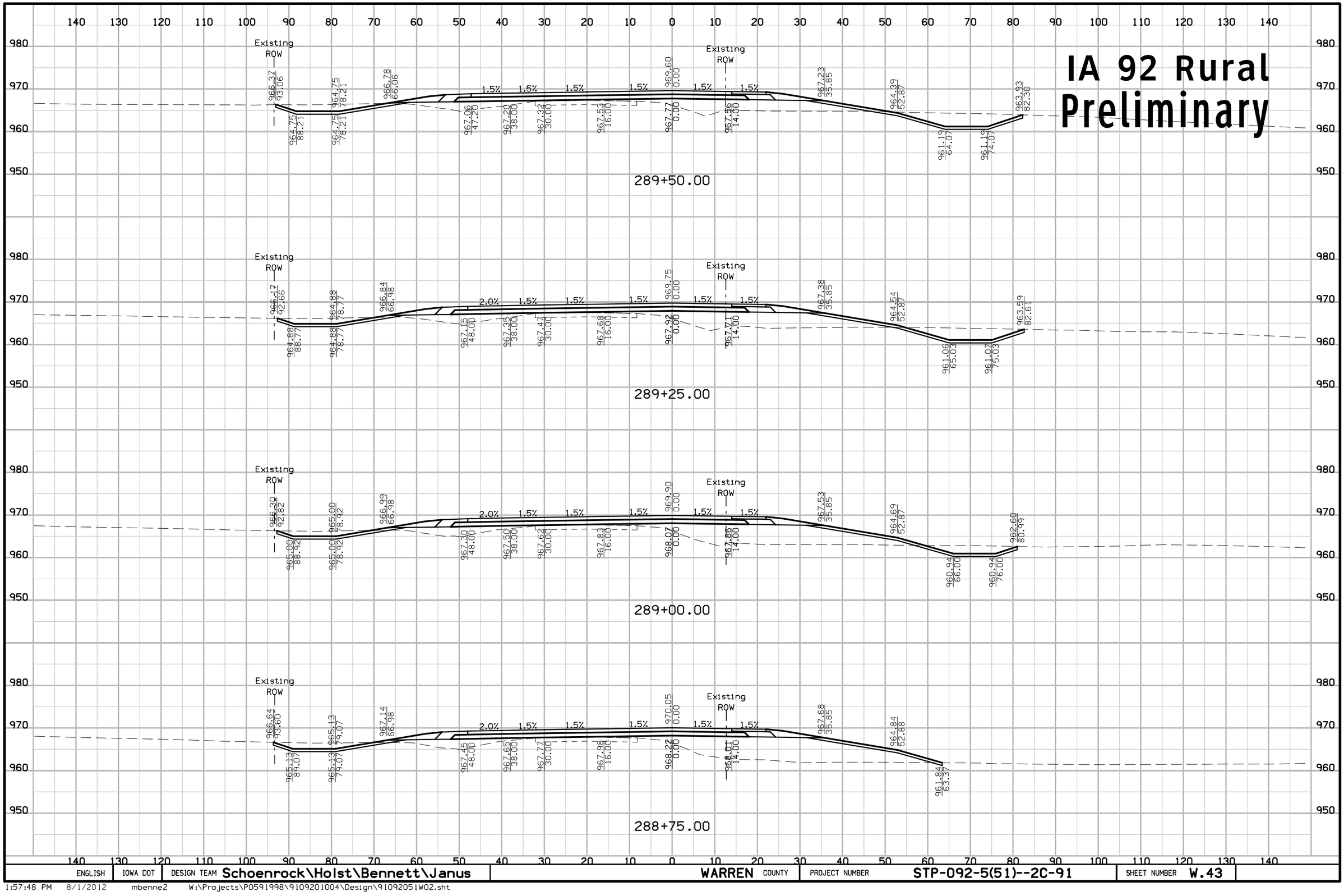
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.43

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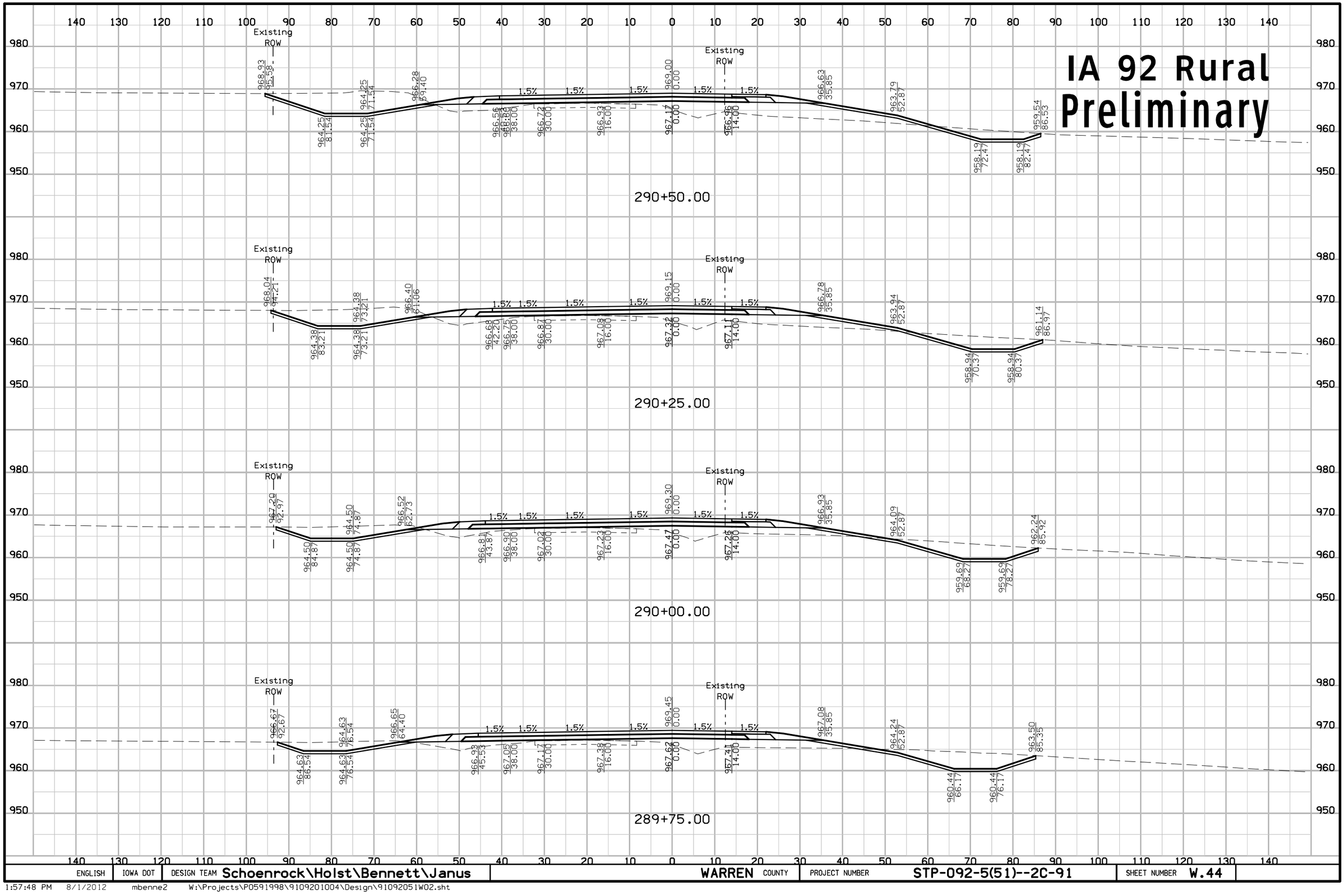
IA 92 Rural Preliminary



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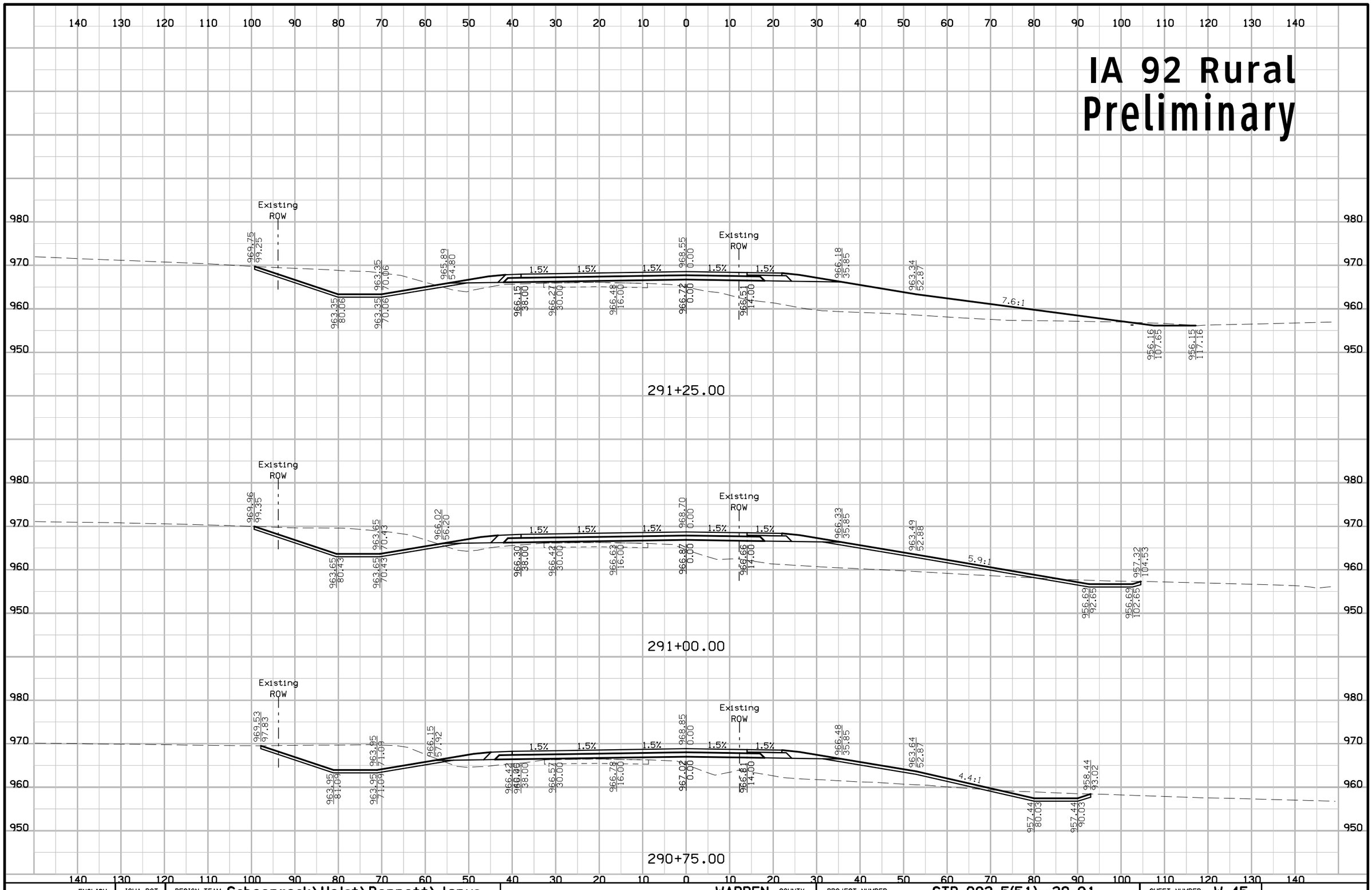
IA 92 Rural
Preliminary



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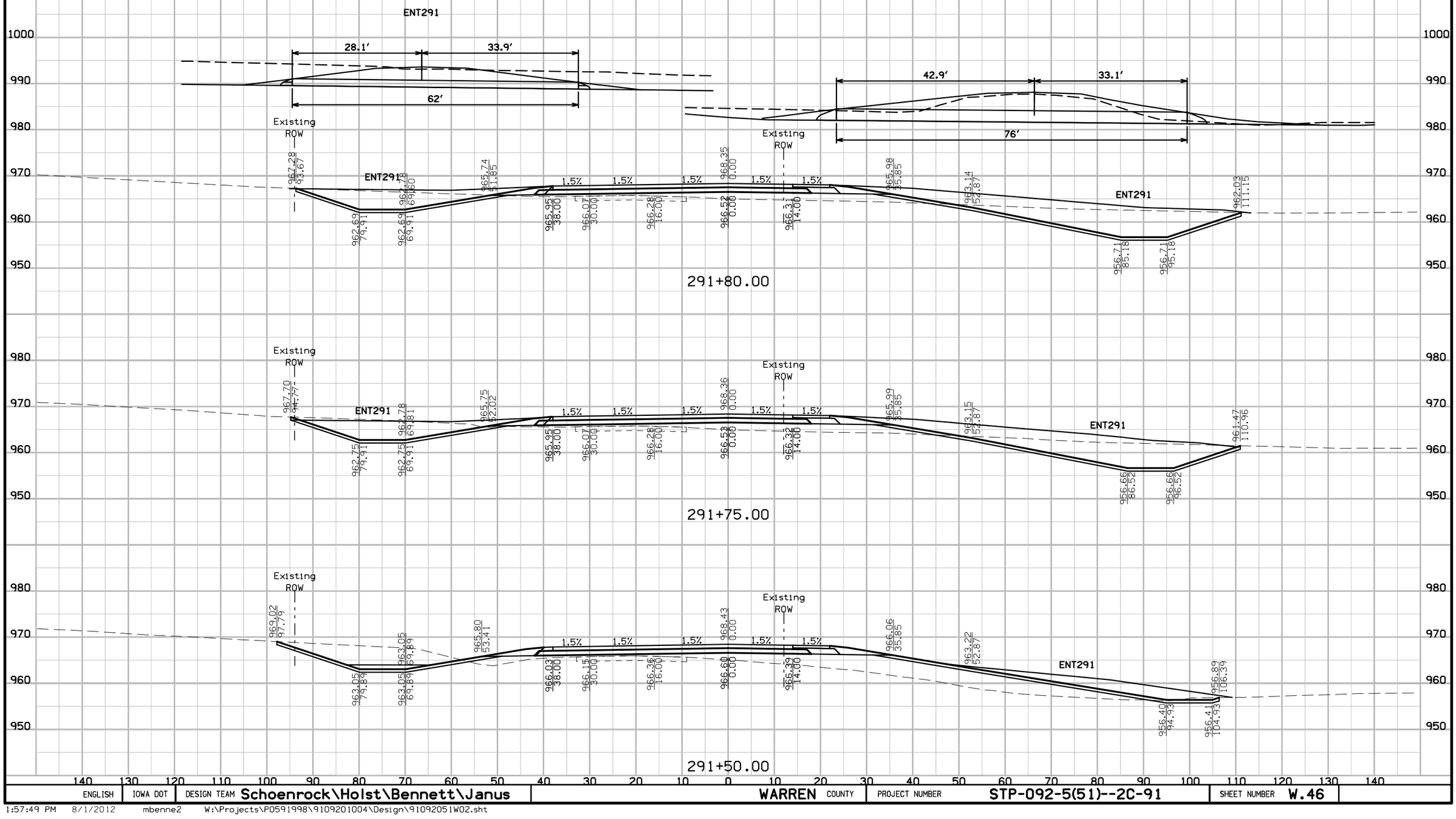
IA 92 Rural Preliminary



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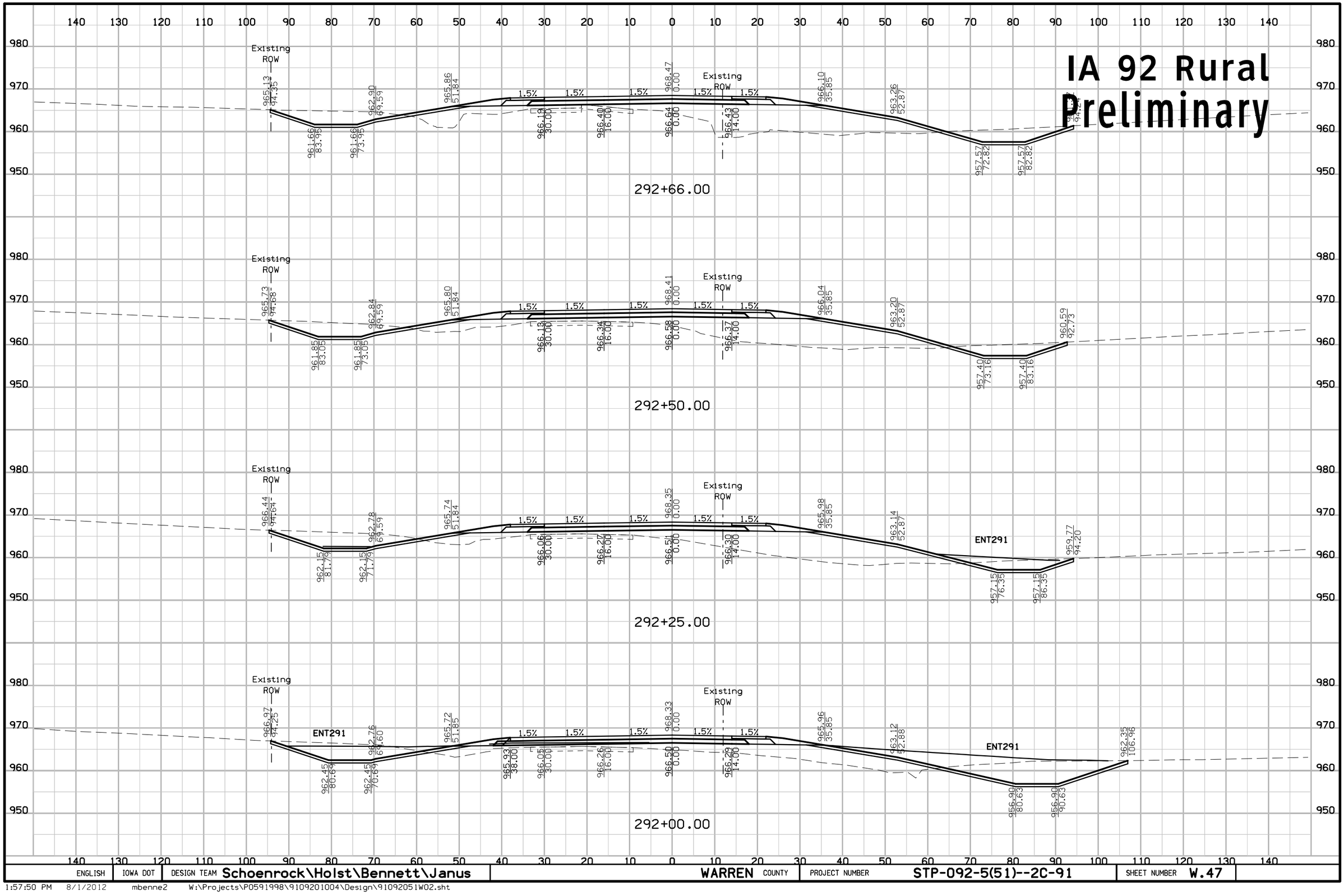
IA 92 Rural Preliminary



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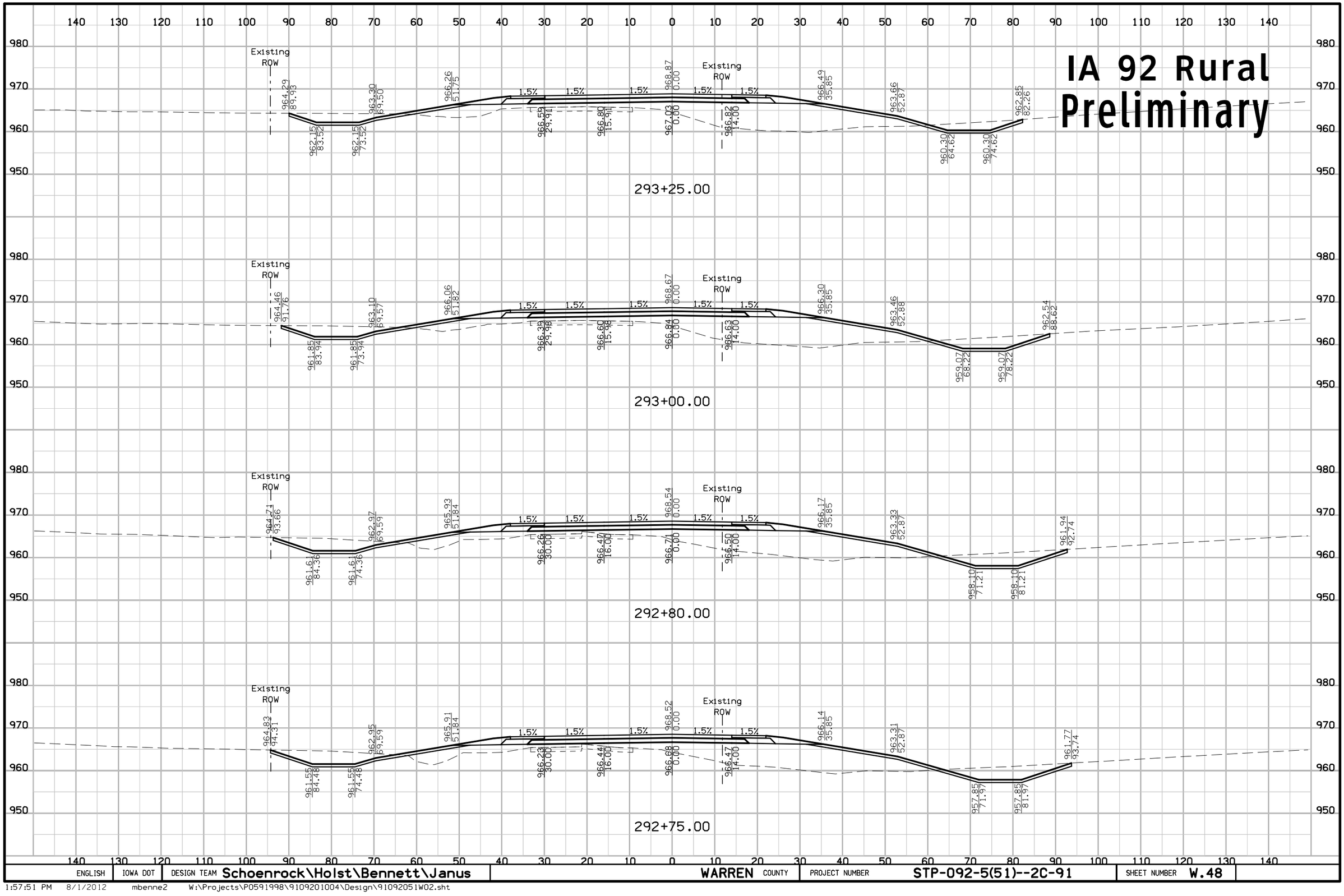
IA 92 Rural Preliminary



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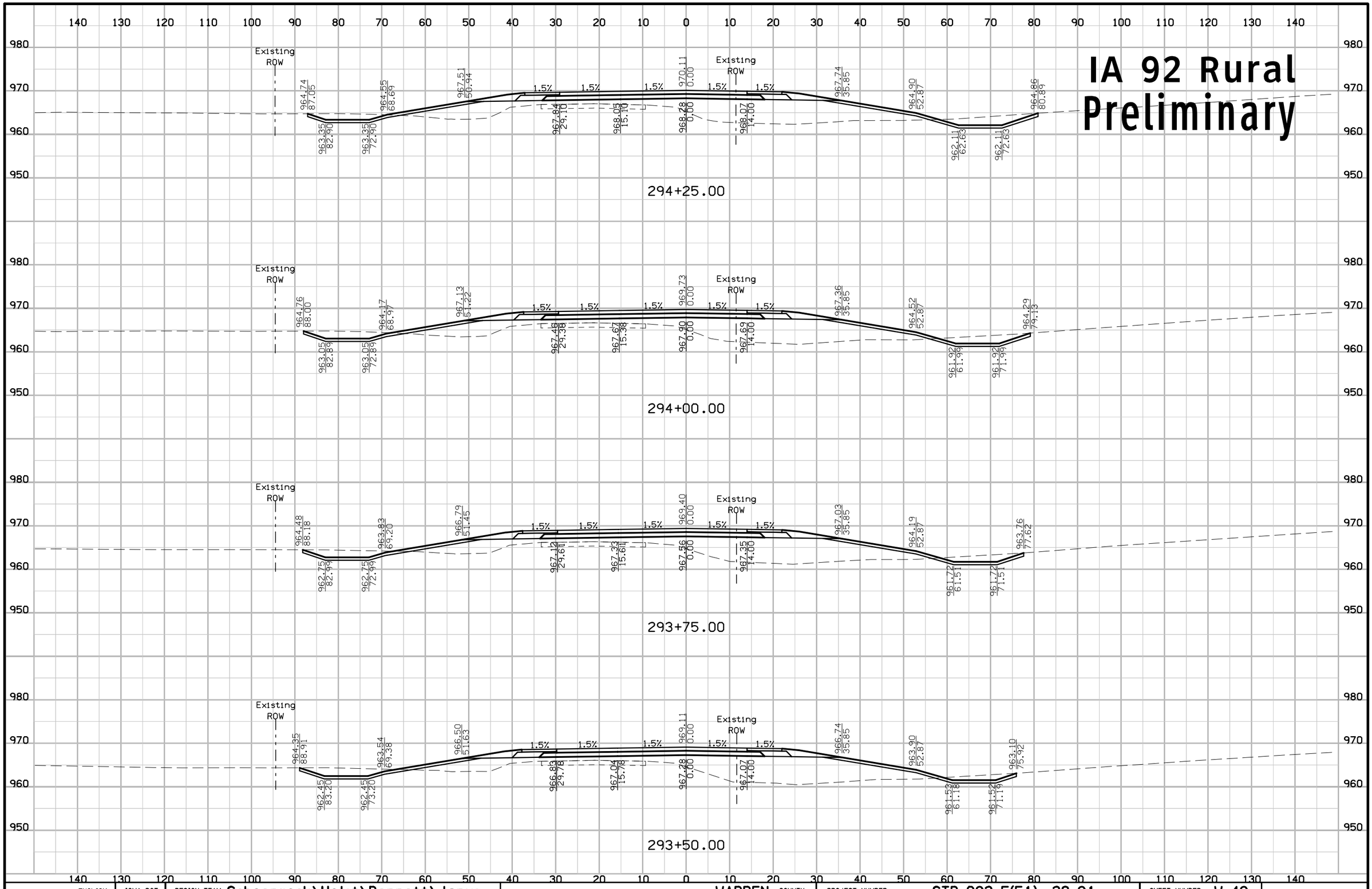
IA 92 Rural
Preliminary



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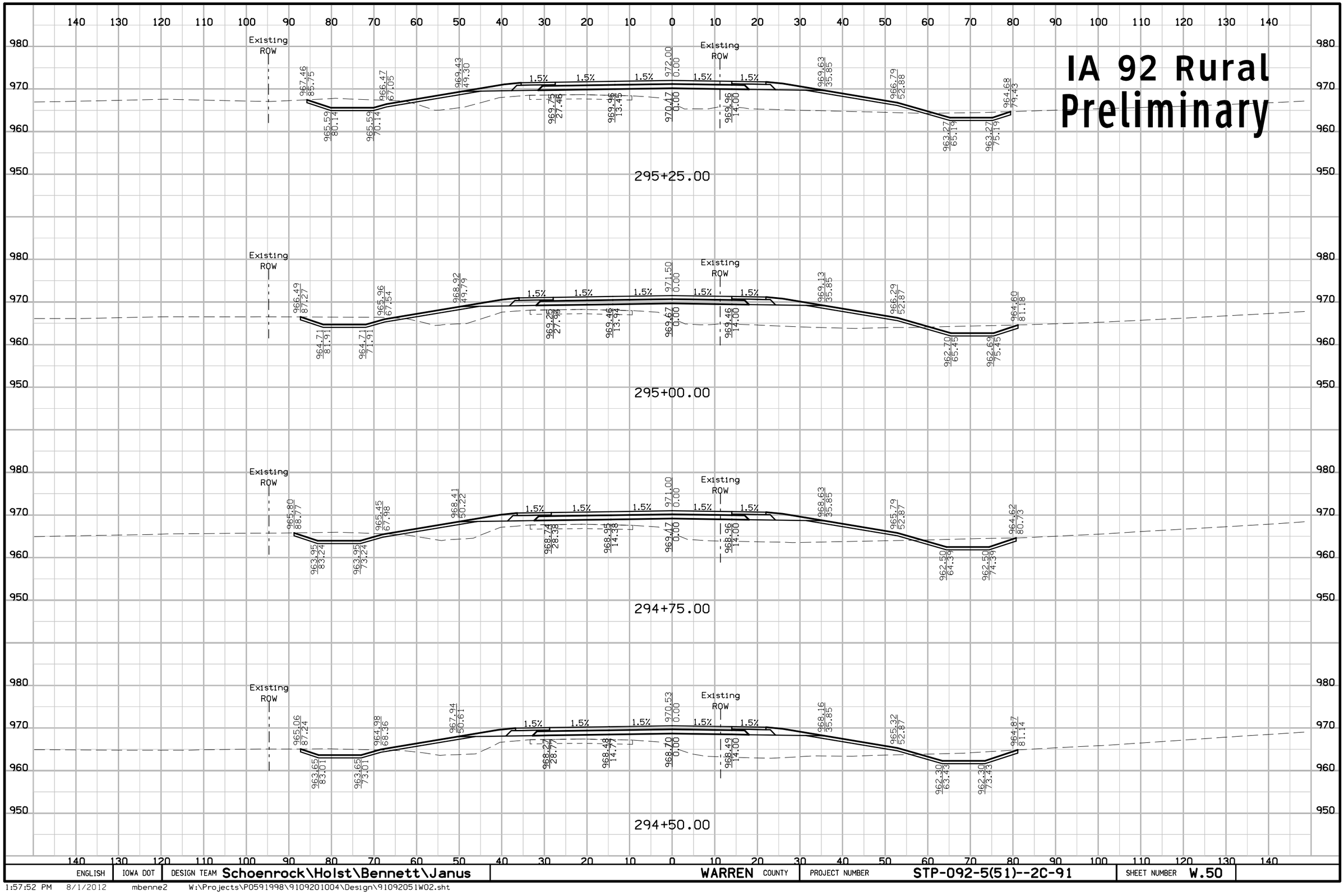
IA 92 Rural Preliminary



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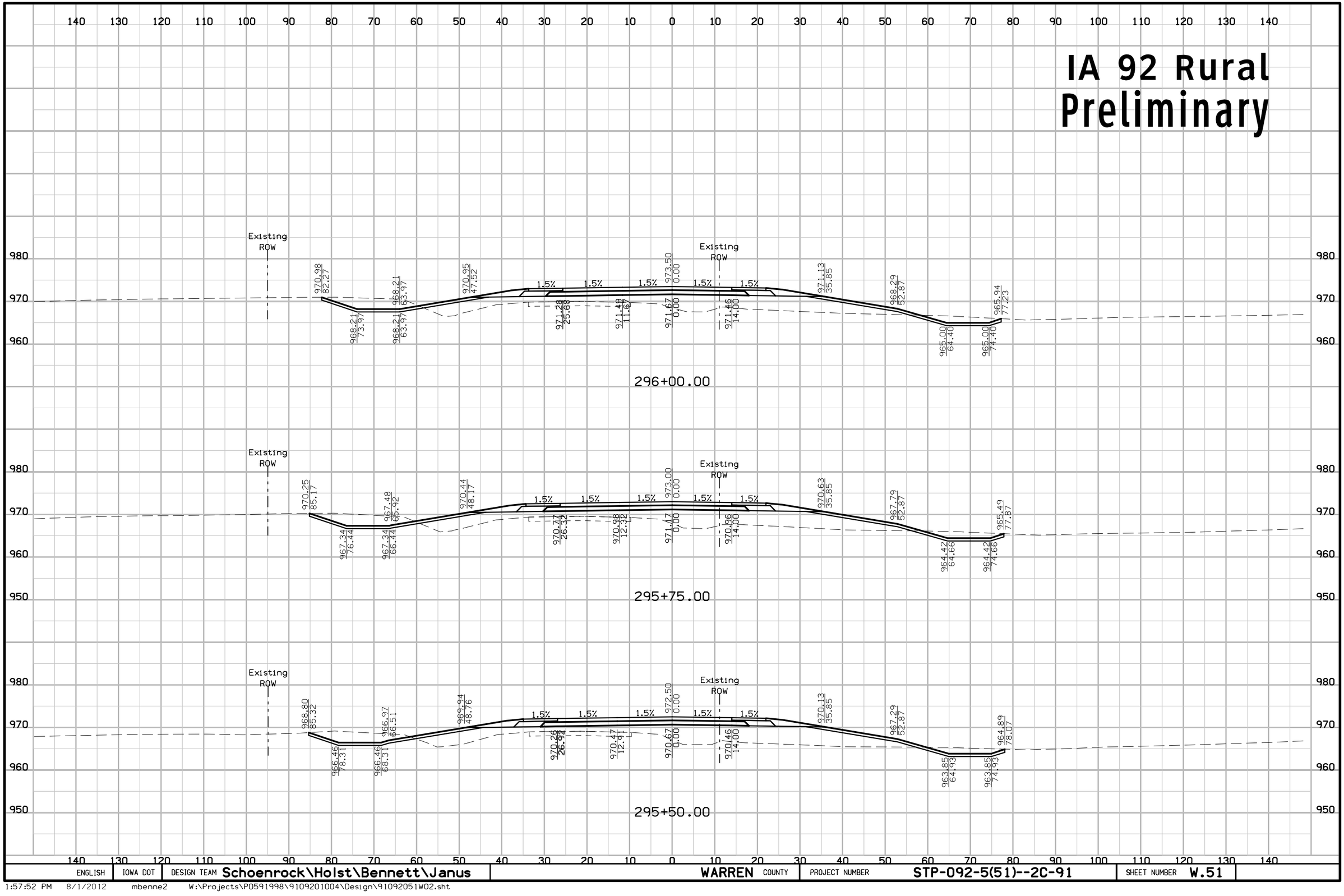
IA 92 Rural
Preliminary



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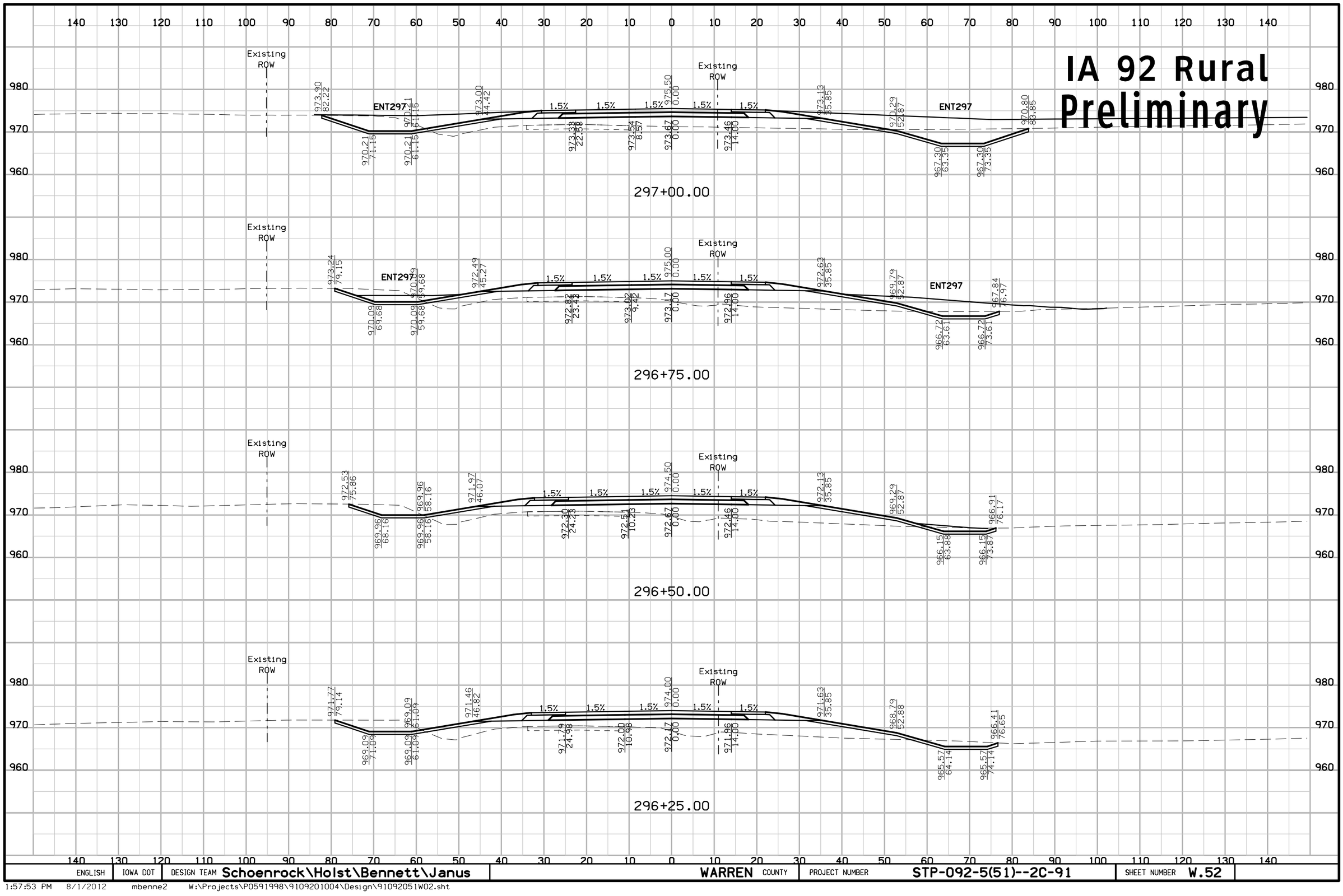
IA 92 Rural Preliminary



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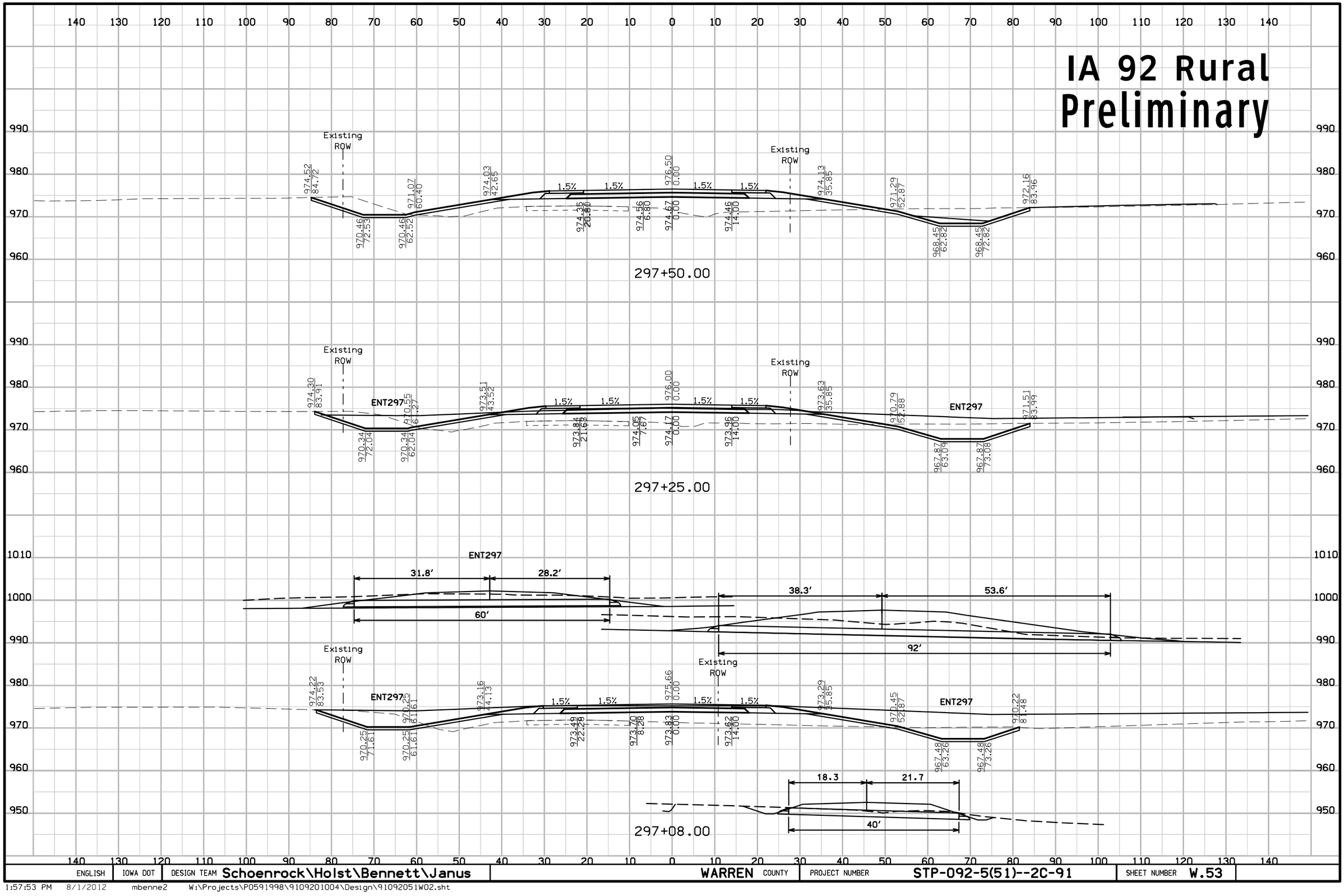
IA 92 Rural
Preliminary



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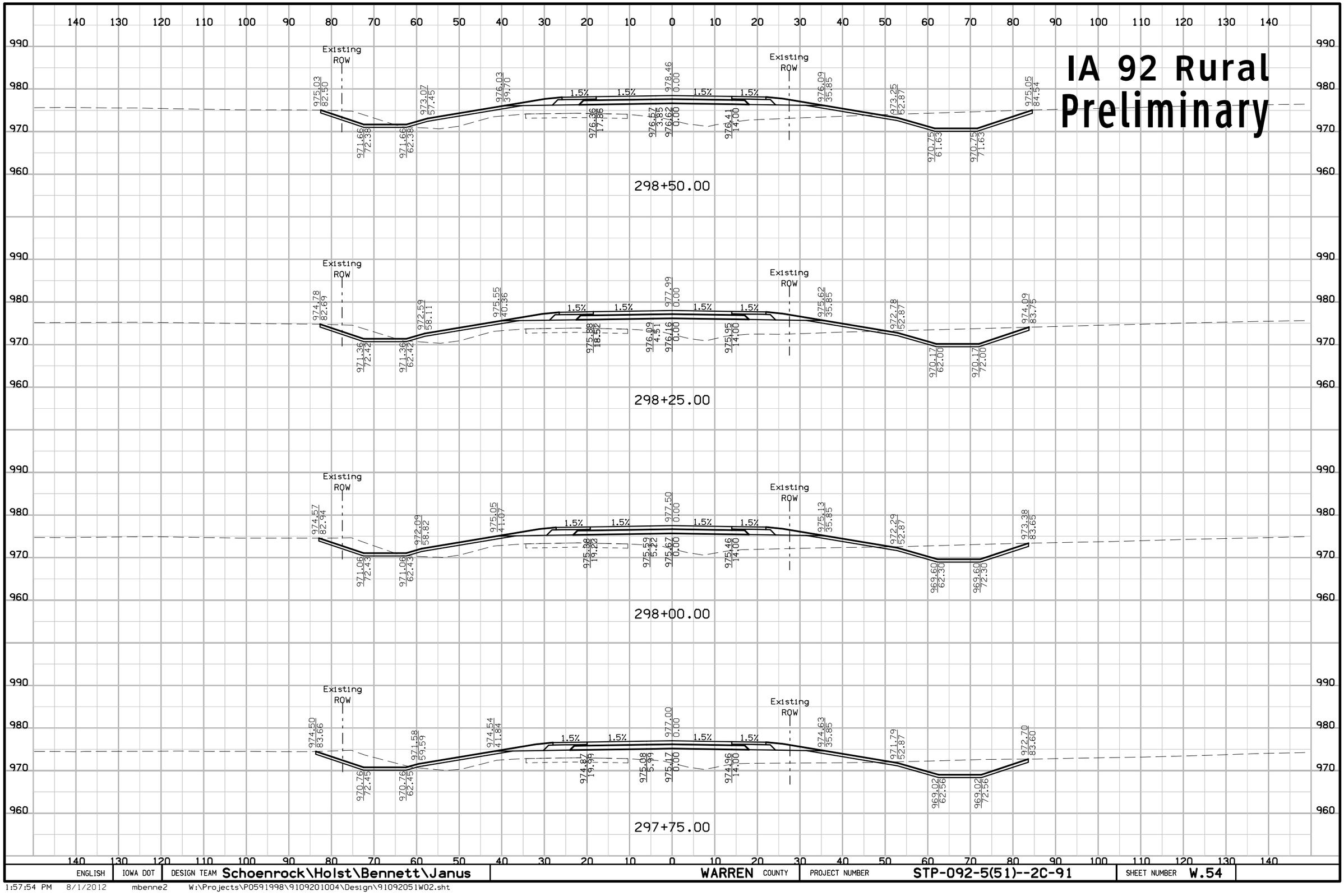
IA 92 Rural
Preliminary



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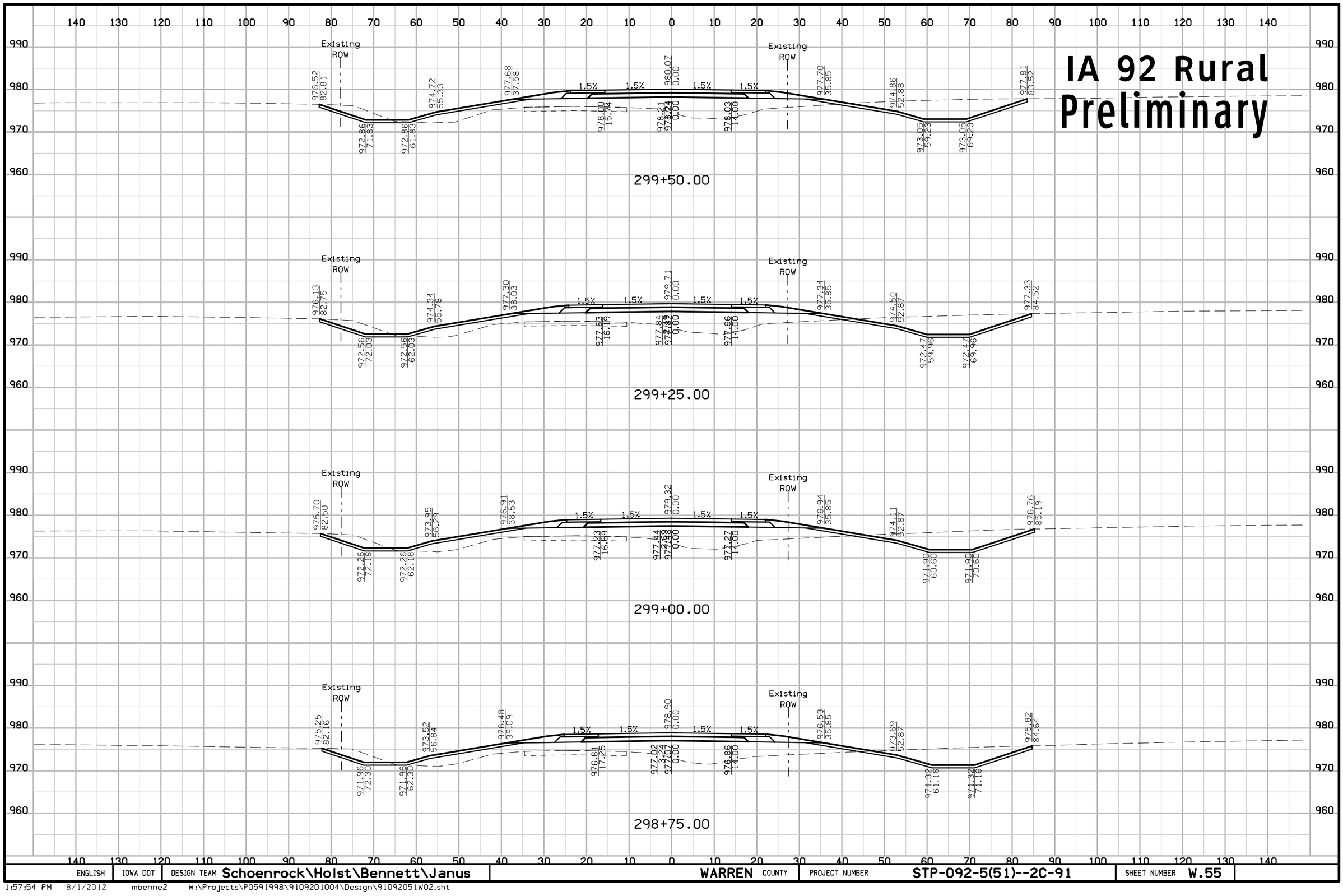
IA 92 Rural
Preliminary



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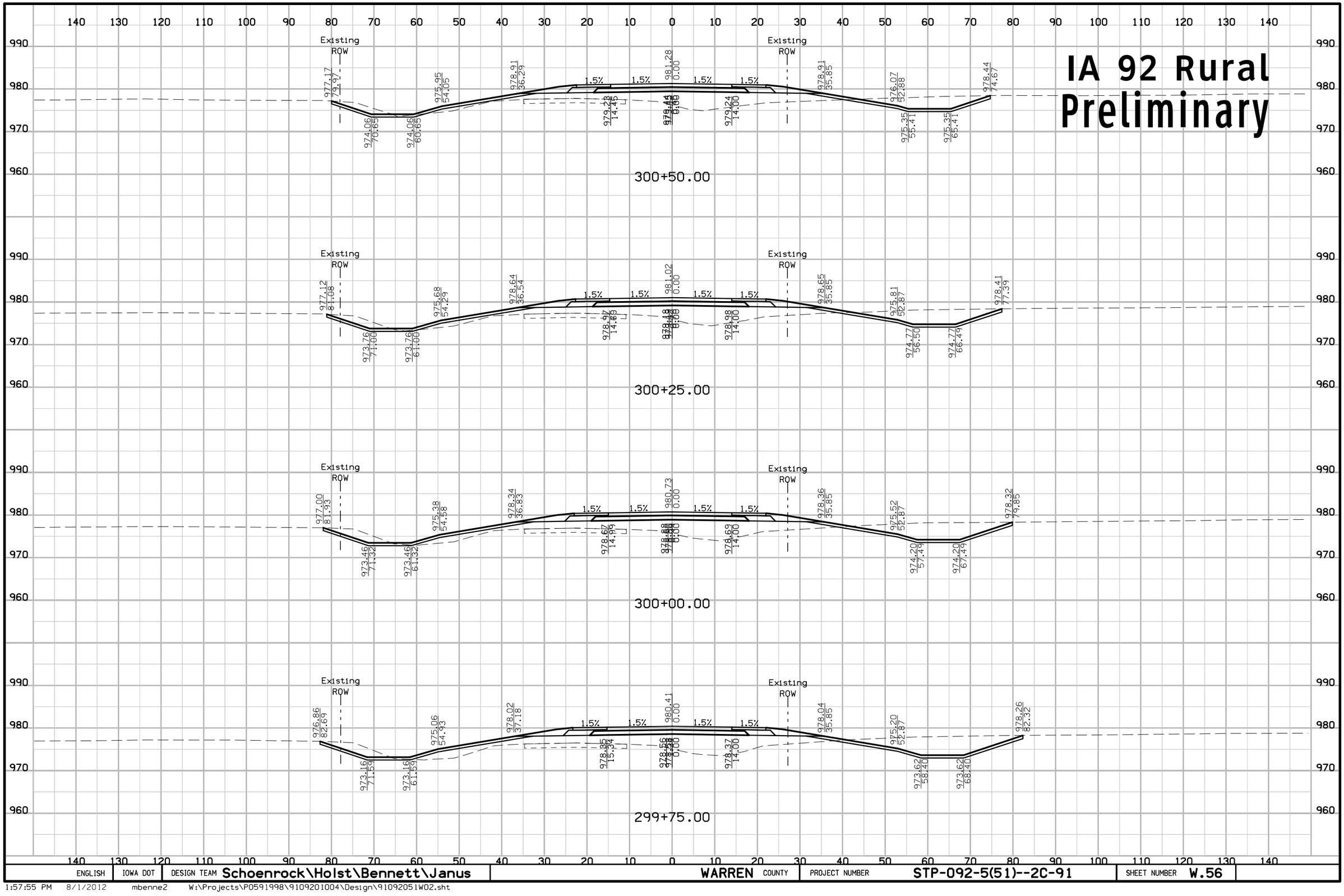
IA 92 Rural
Preliminary



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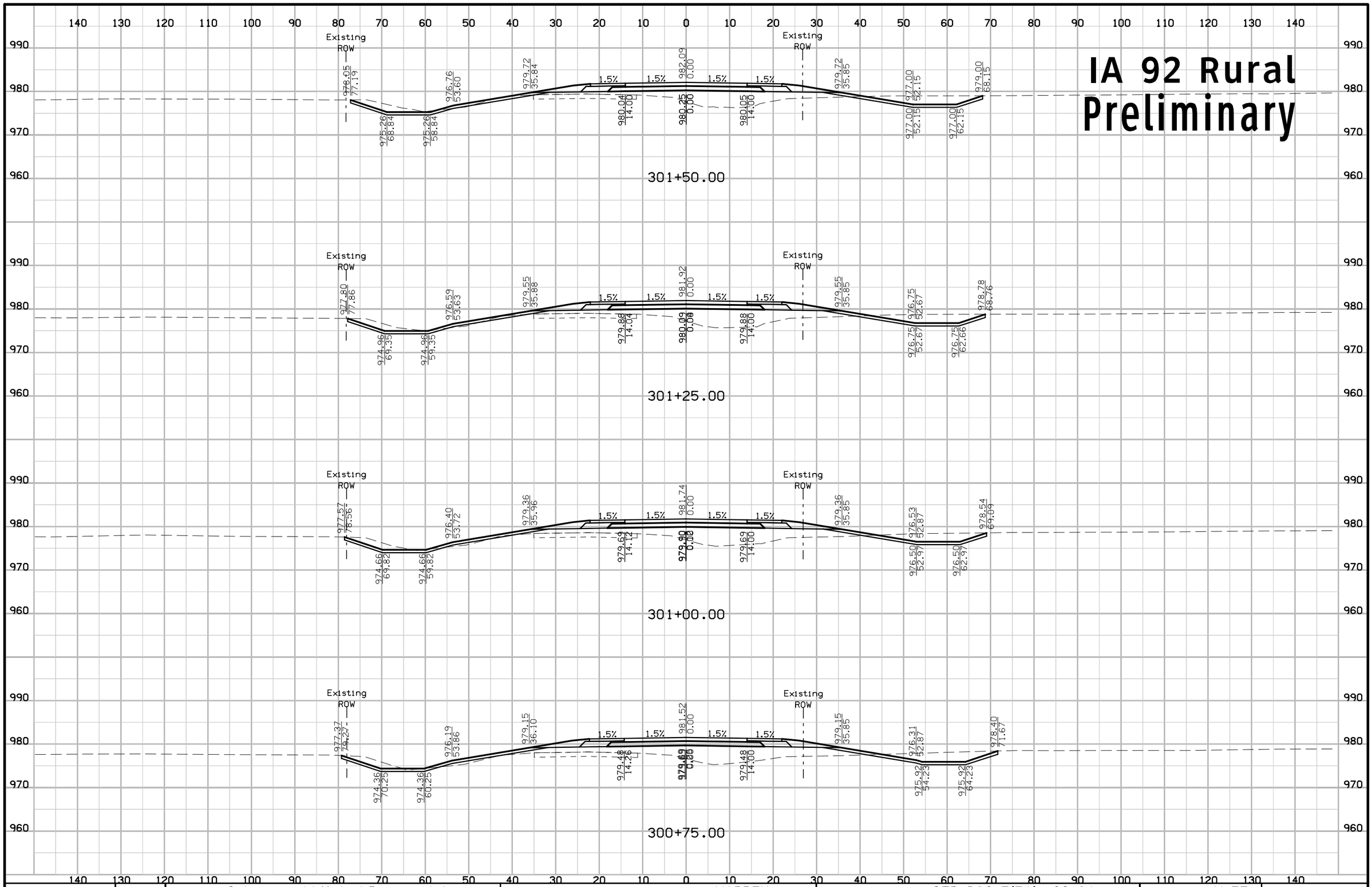
IA 92 Rural
Preliminary



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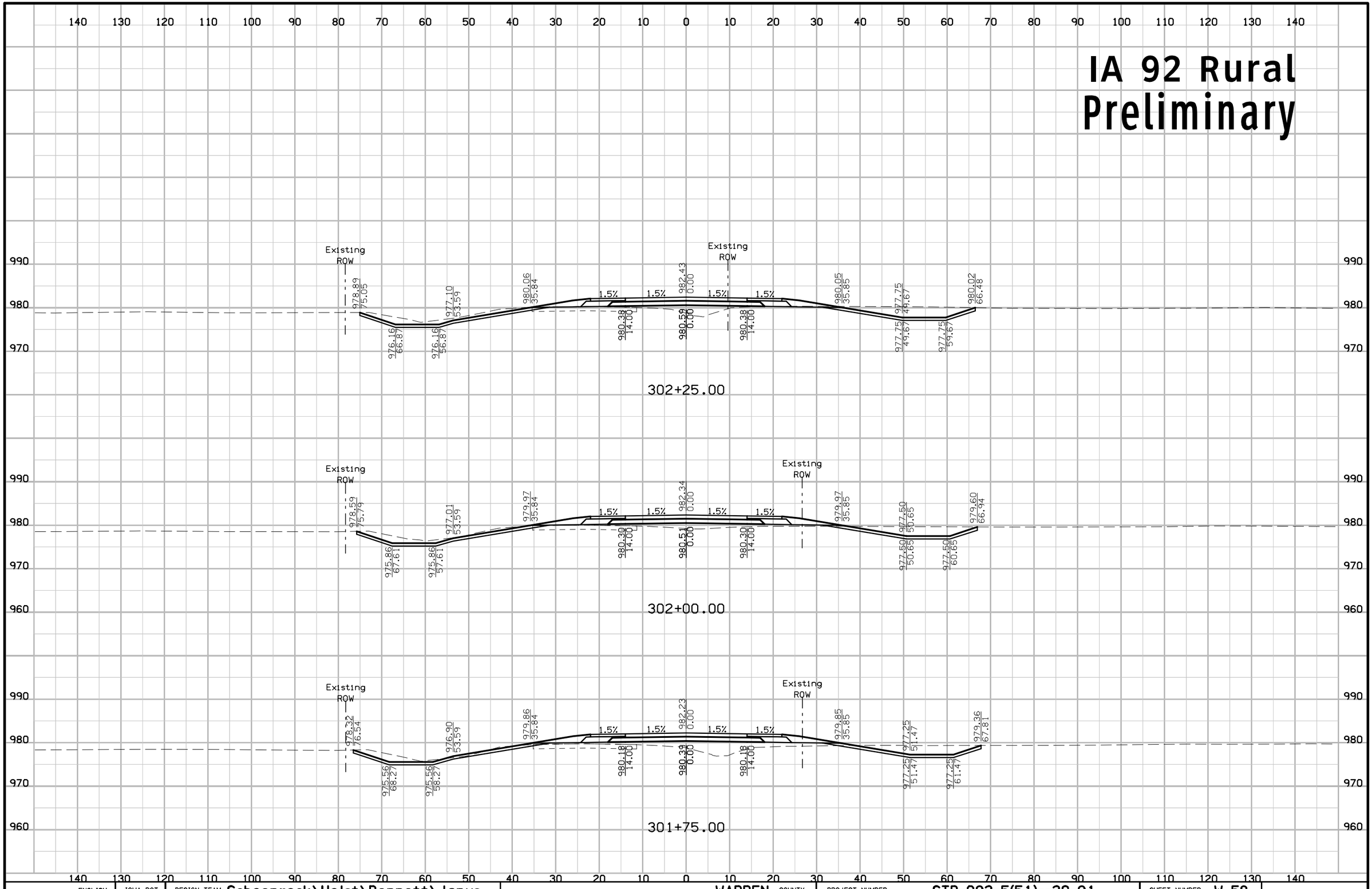
IA 92 Rural
Preliminary



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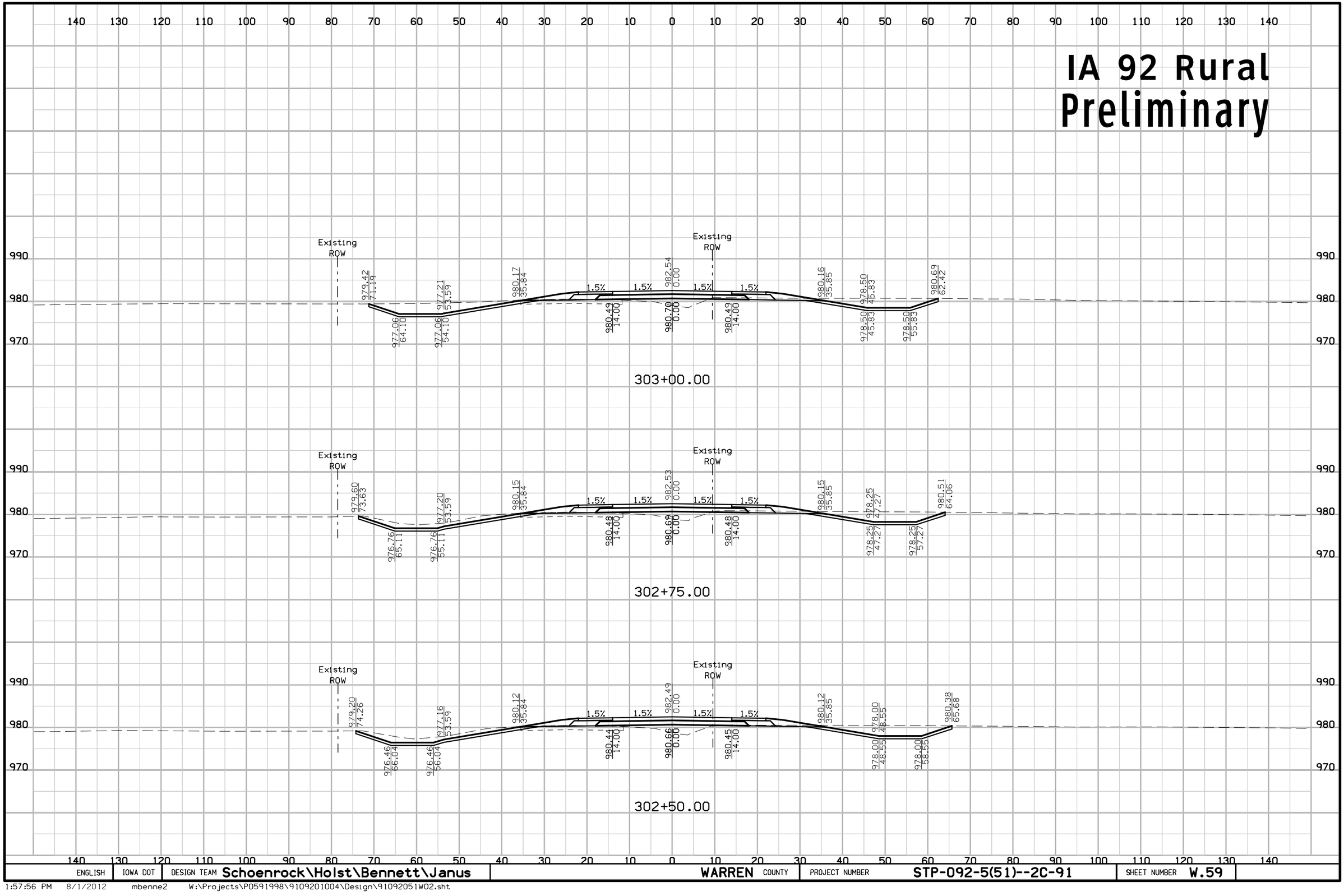
IA 92 Rural
Preliminary



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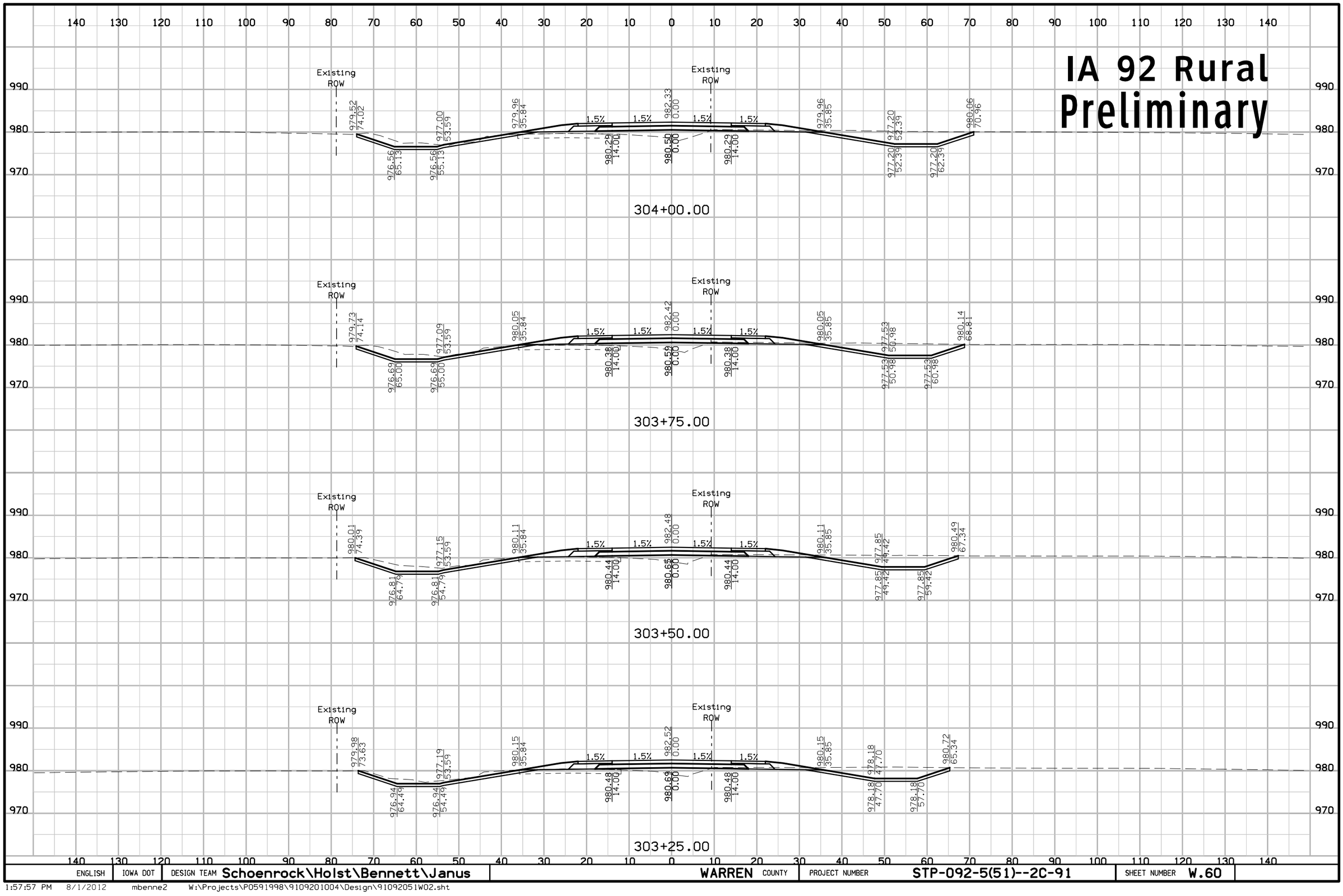
IA 92 Rural Preliminary



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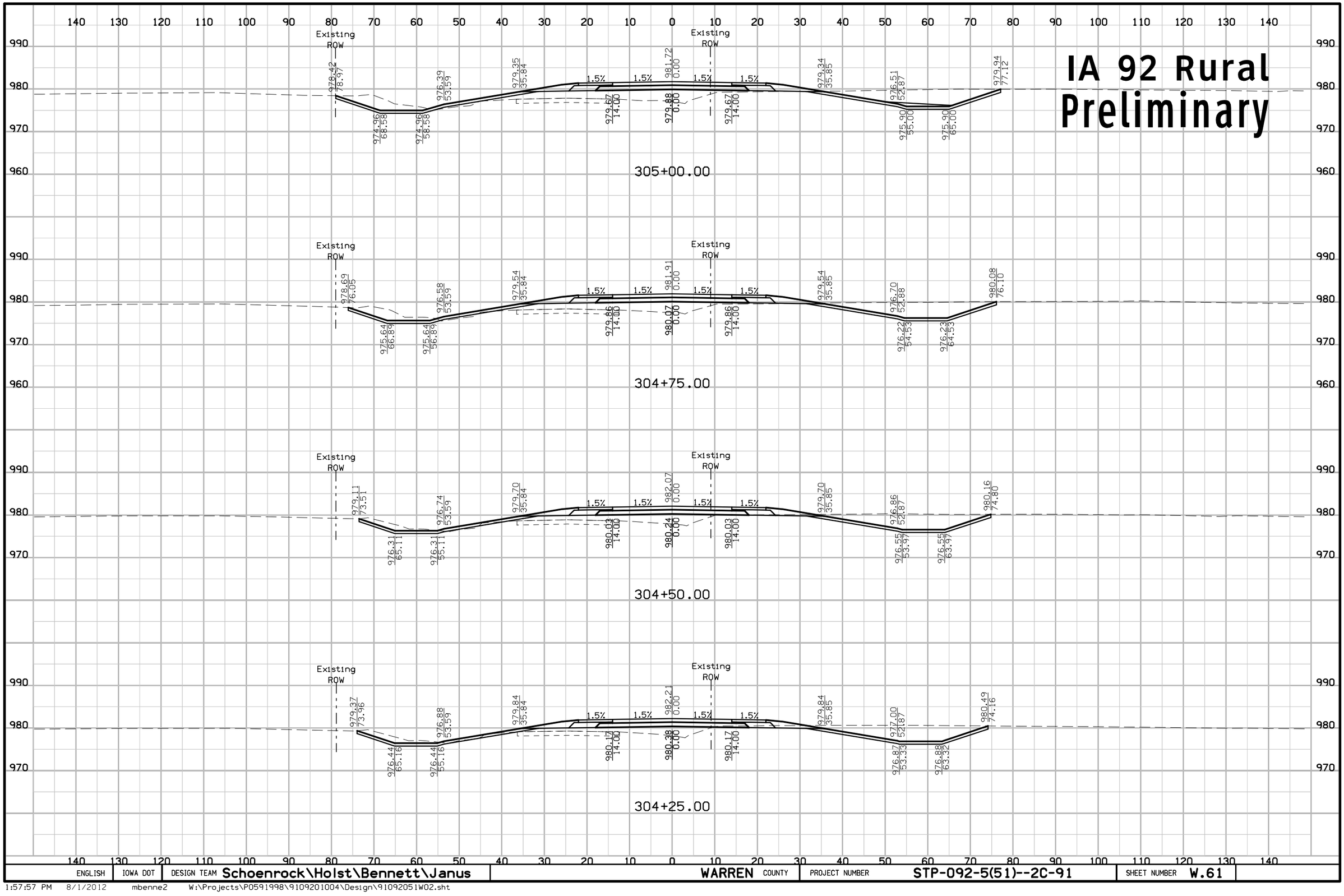
IA 92 Rural Preliminary



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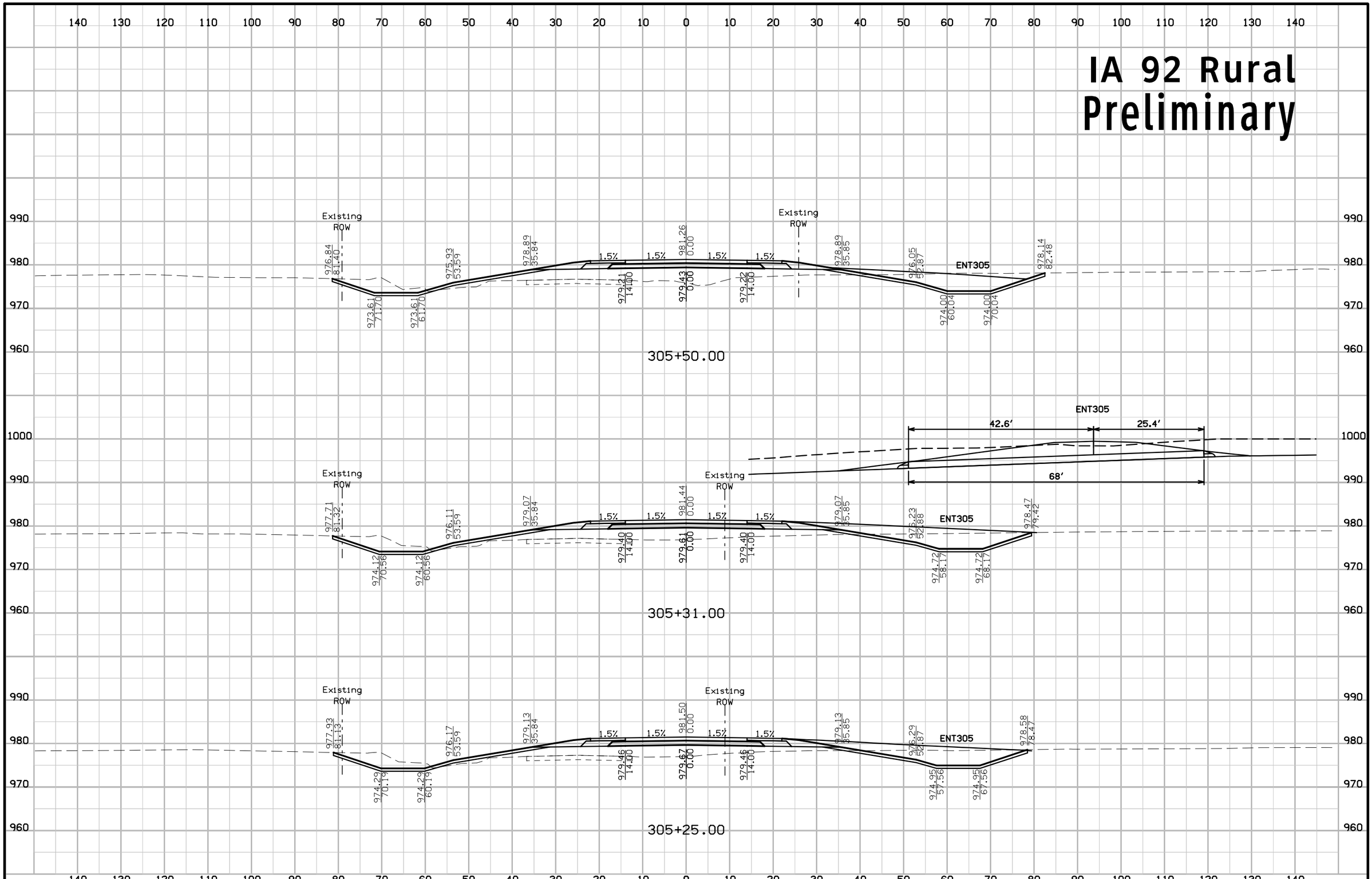
IA 92 Rural
Preliminary



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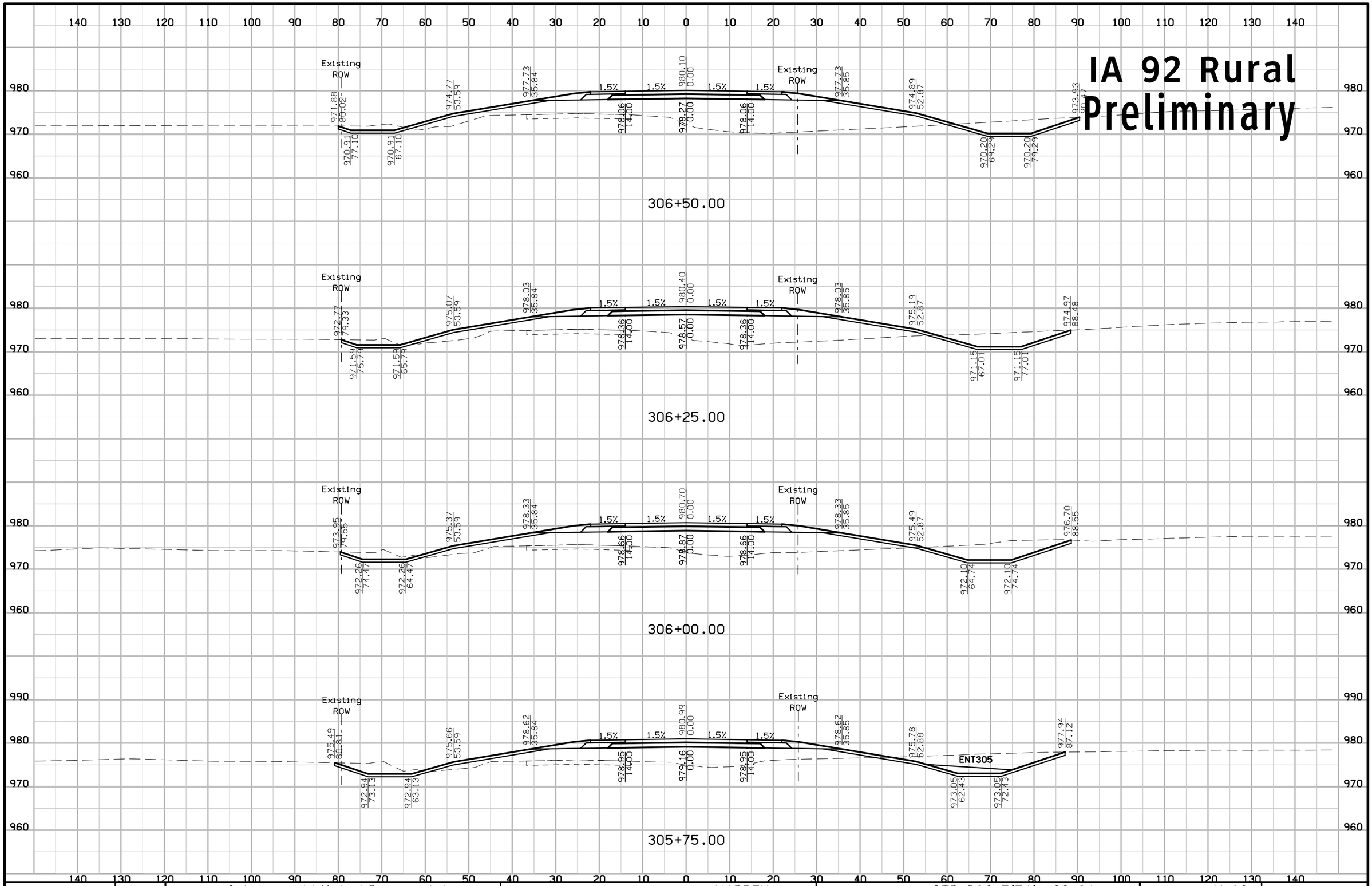
IA 92 Rural
Preliminary



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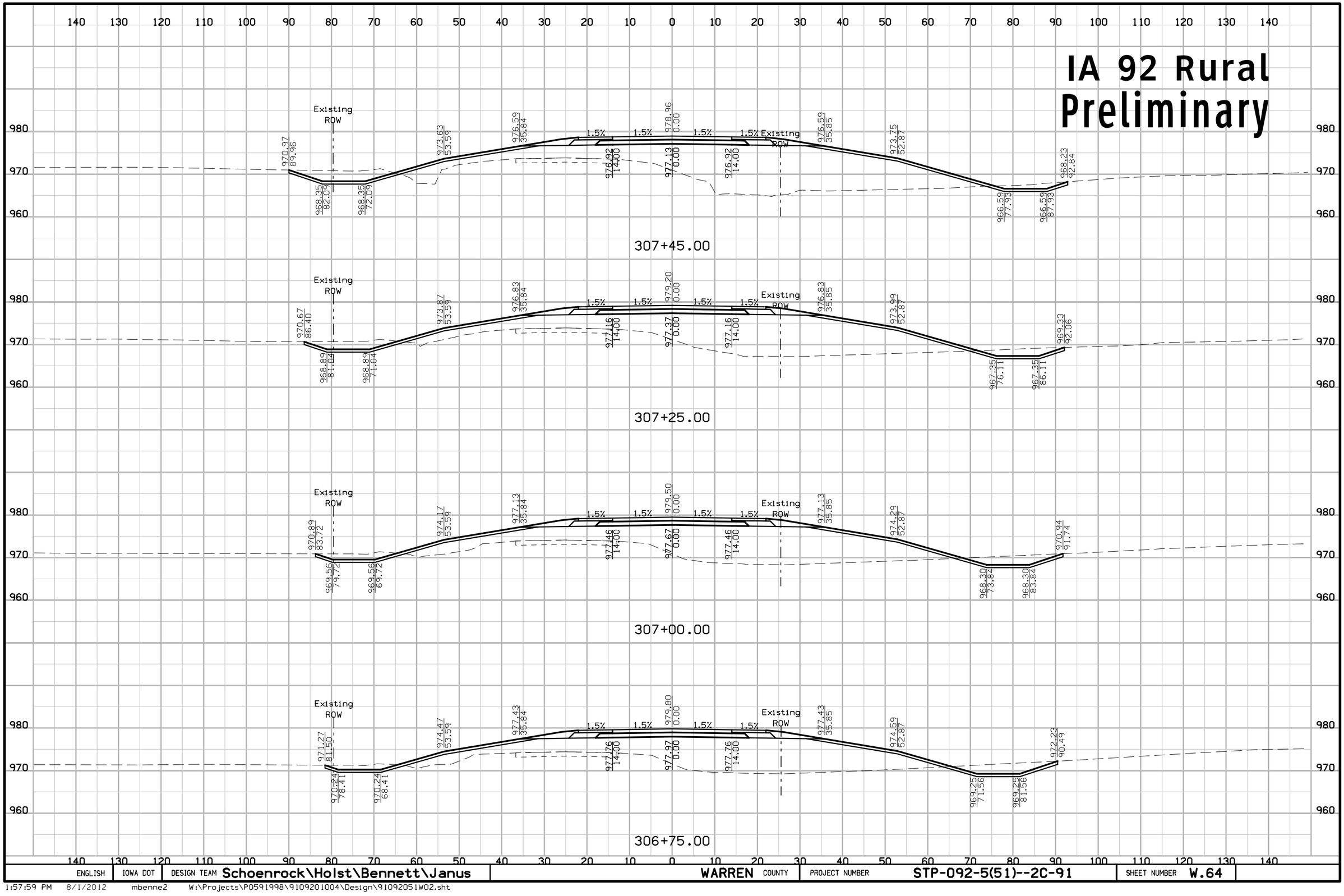
IA 92 Rural
Preliminary



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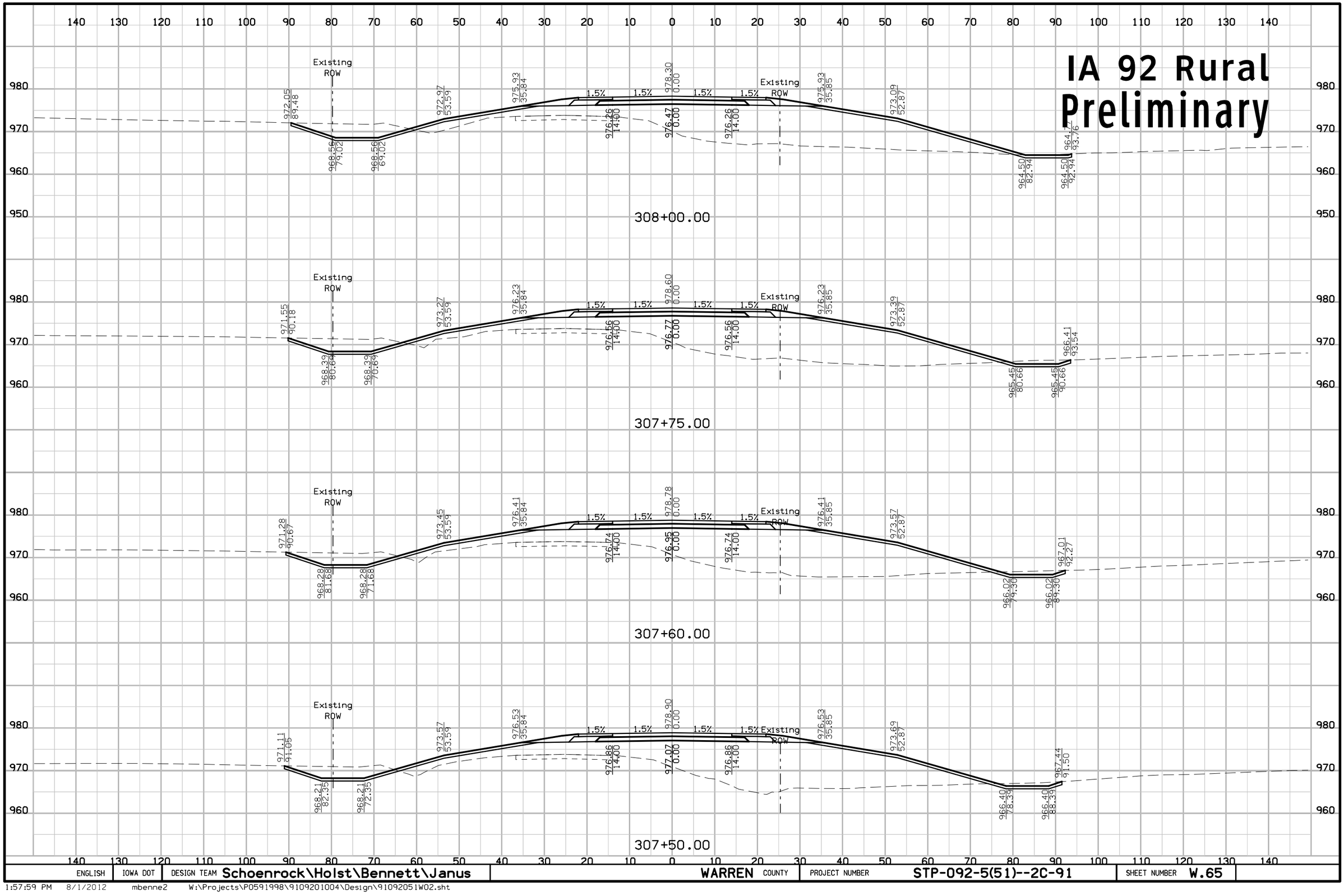
IA 92 Rural Preliminary



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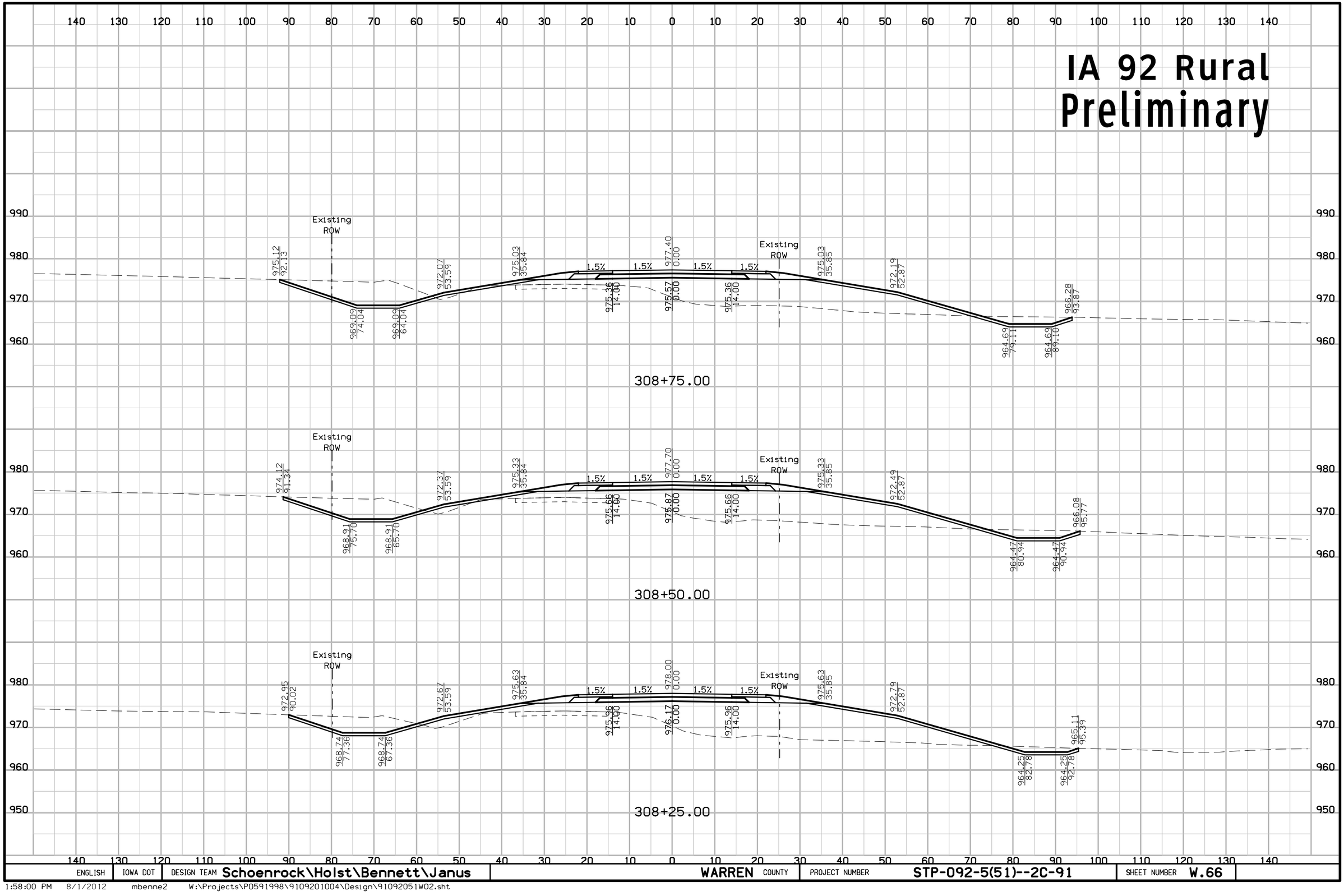
IA 92 Rural
Preliminary



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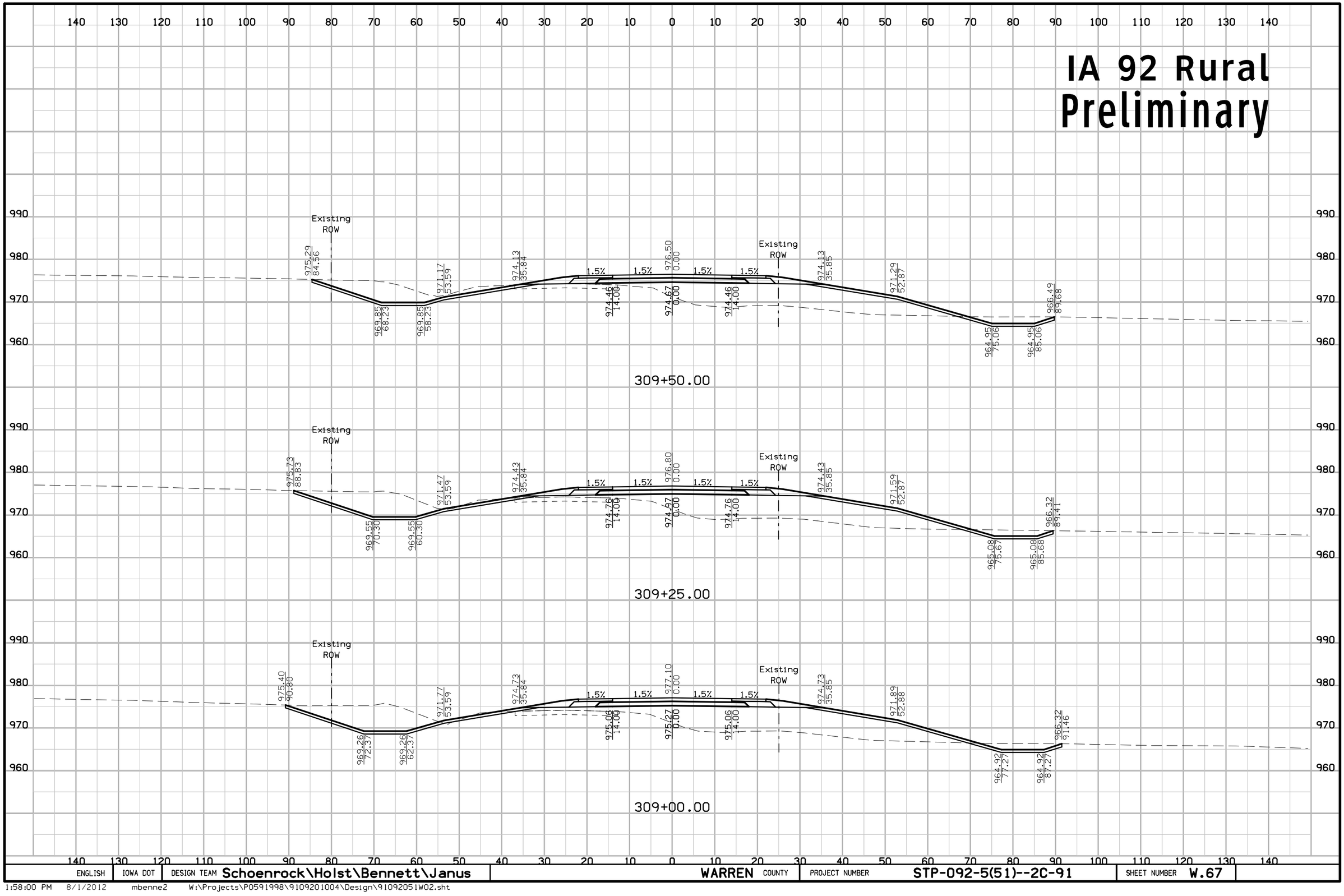
IA 92 Rural
Preliminary



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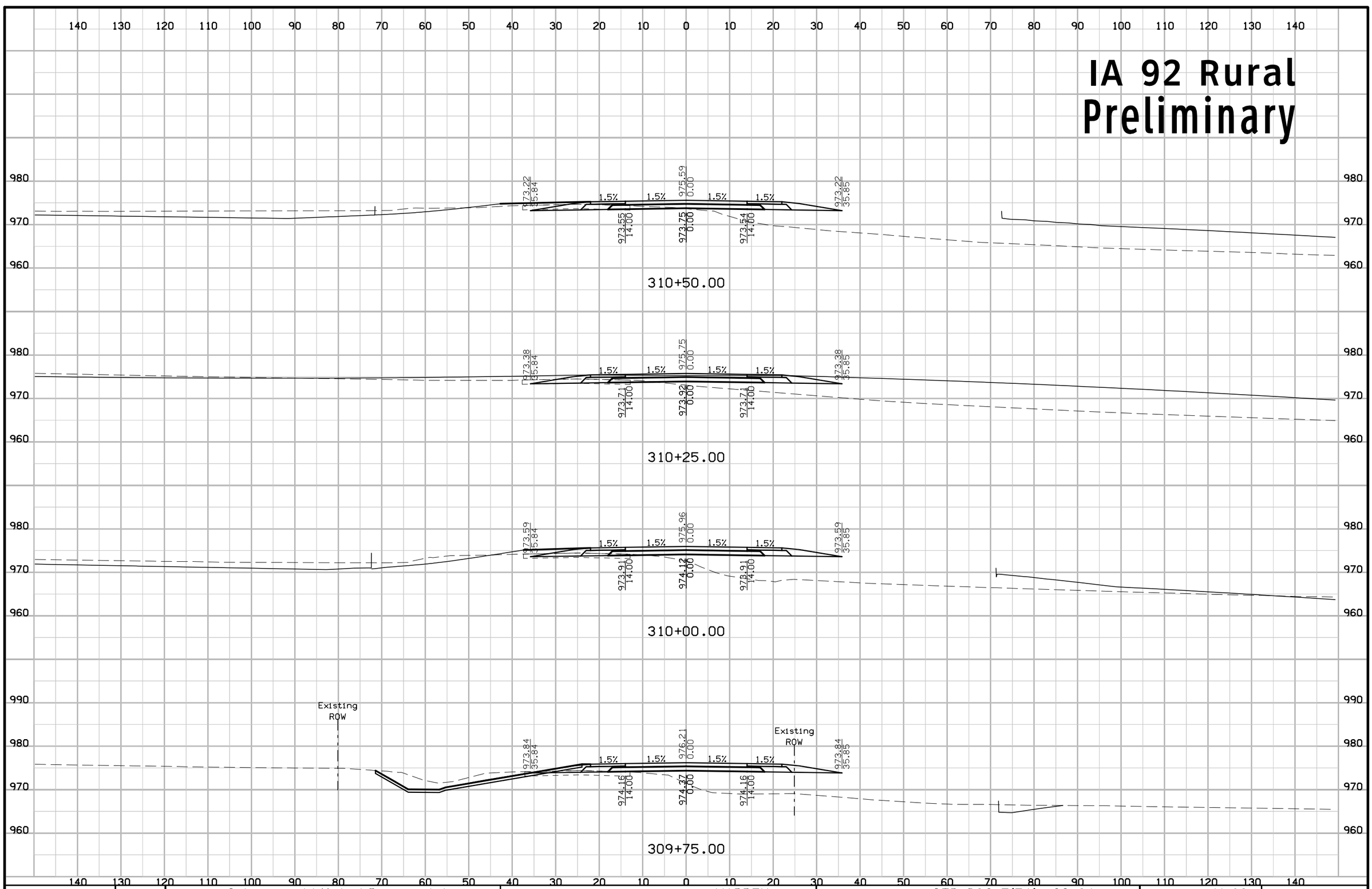
IA 92 Rural
Preliminary



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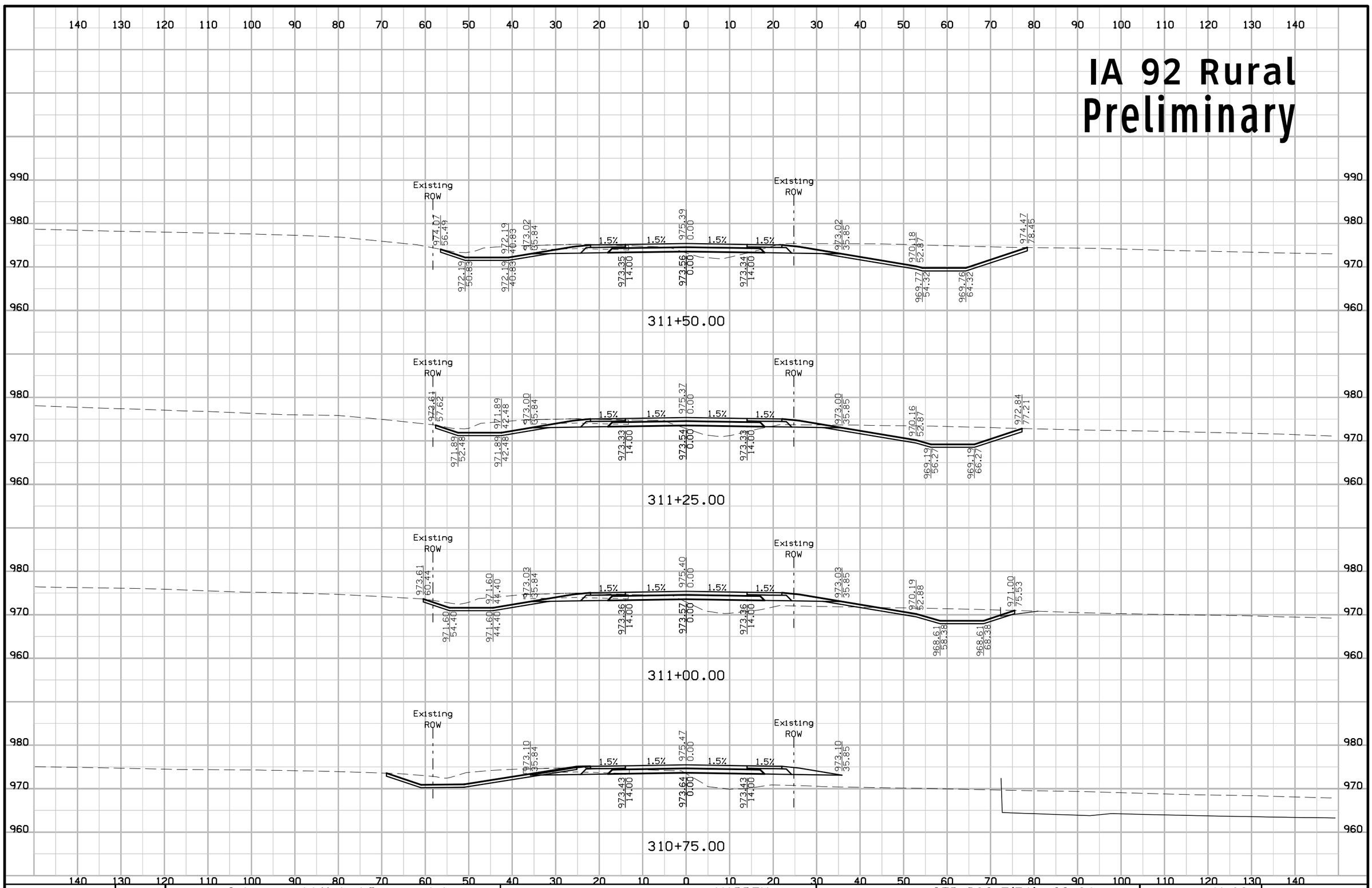
IA 92 Rural
Preliminary



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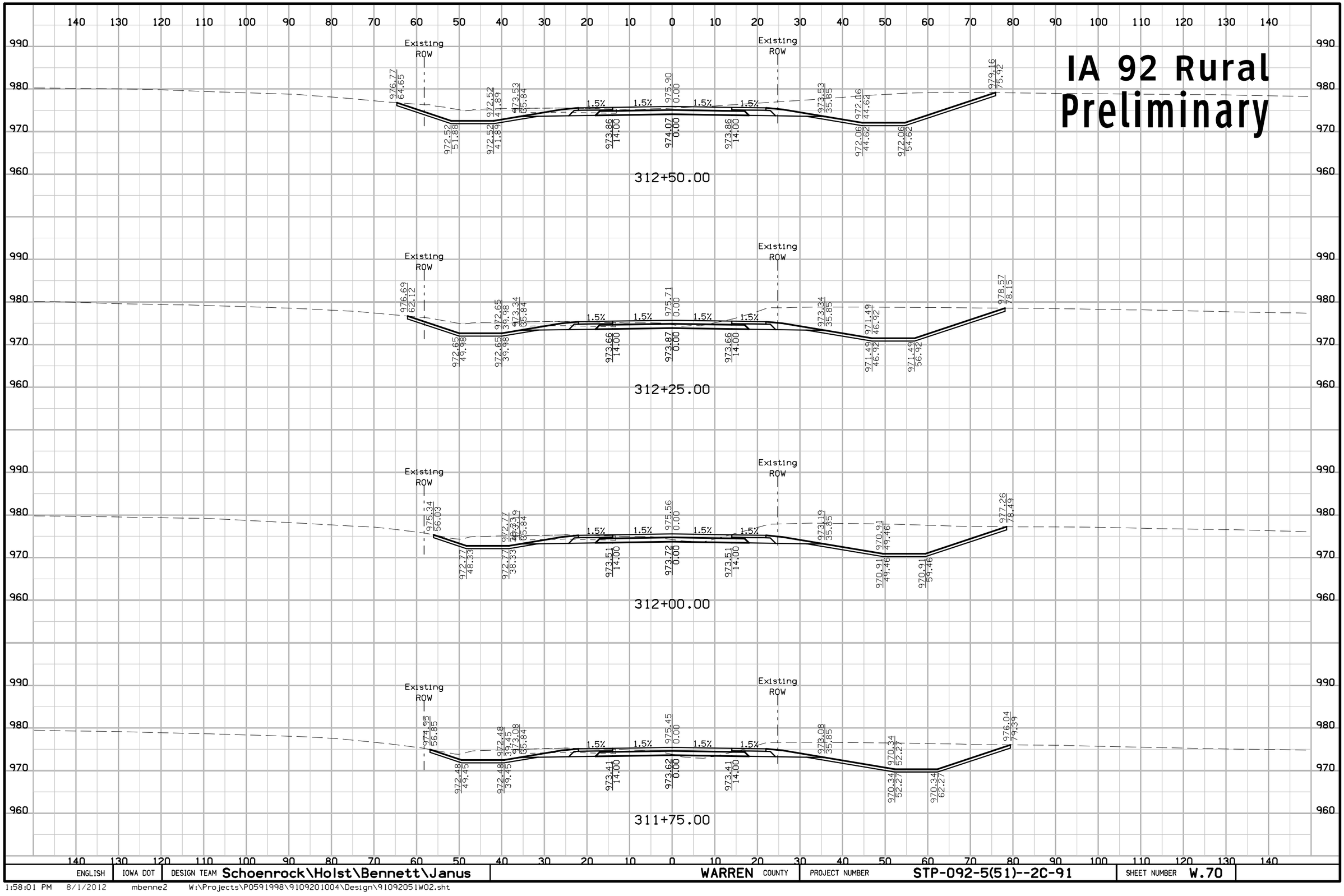
IA 92 Rural Preliminary



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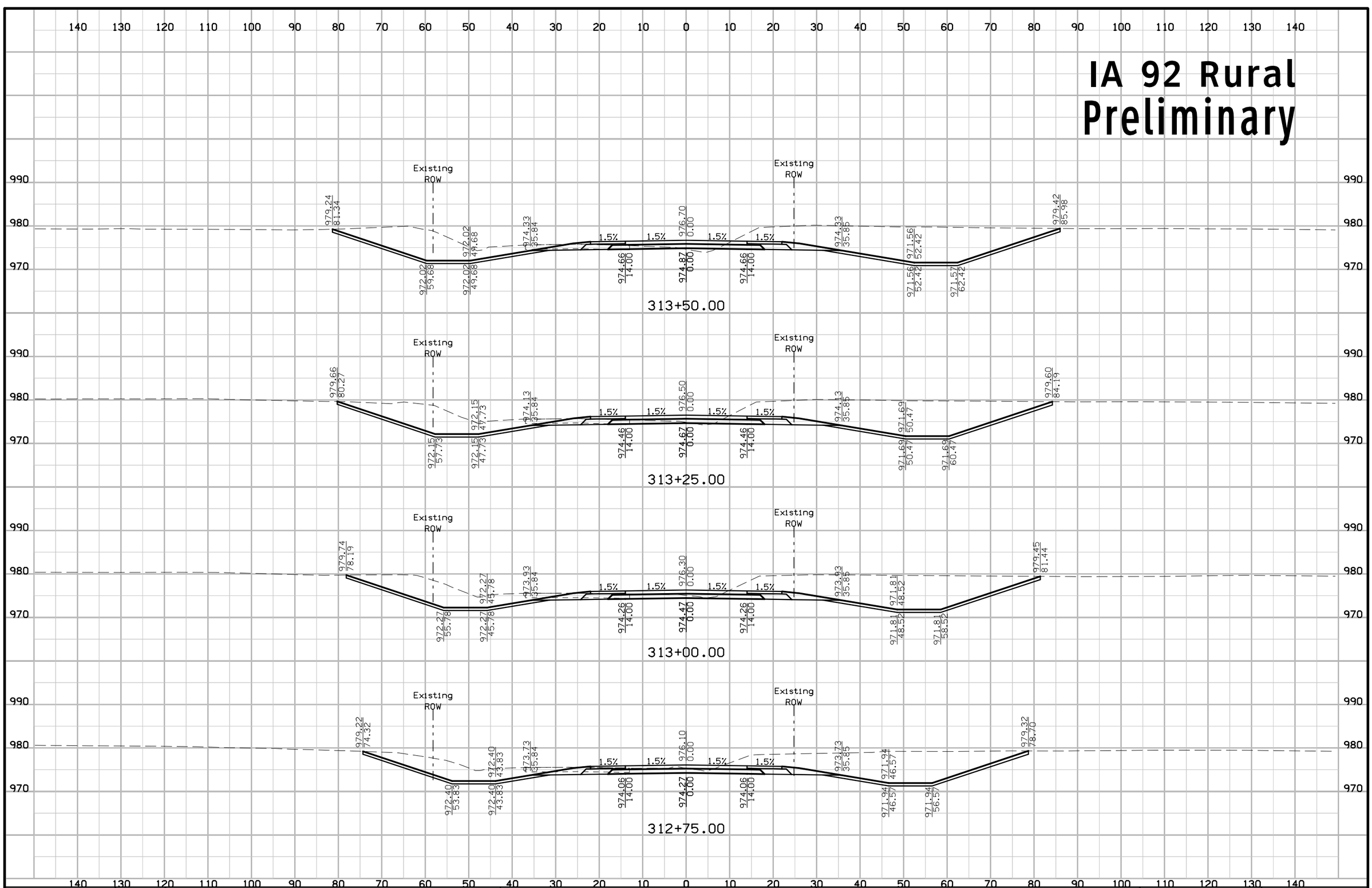
IA 92 Rural
Preliminary



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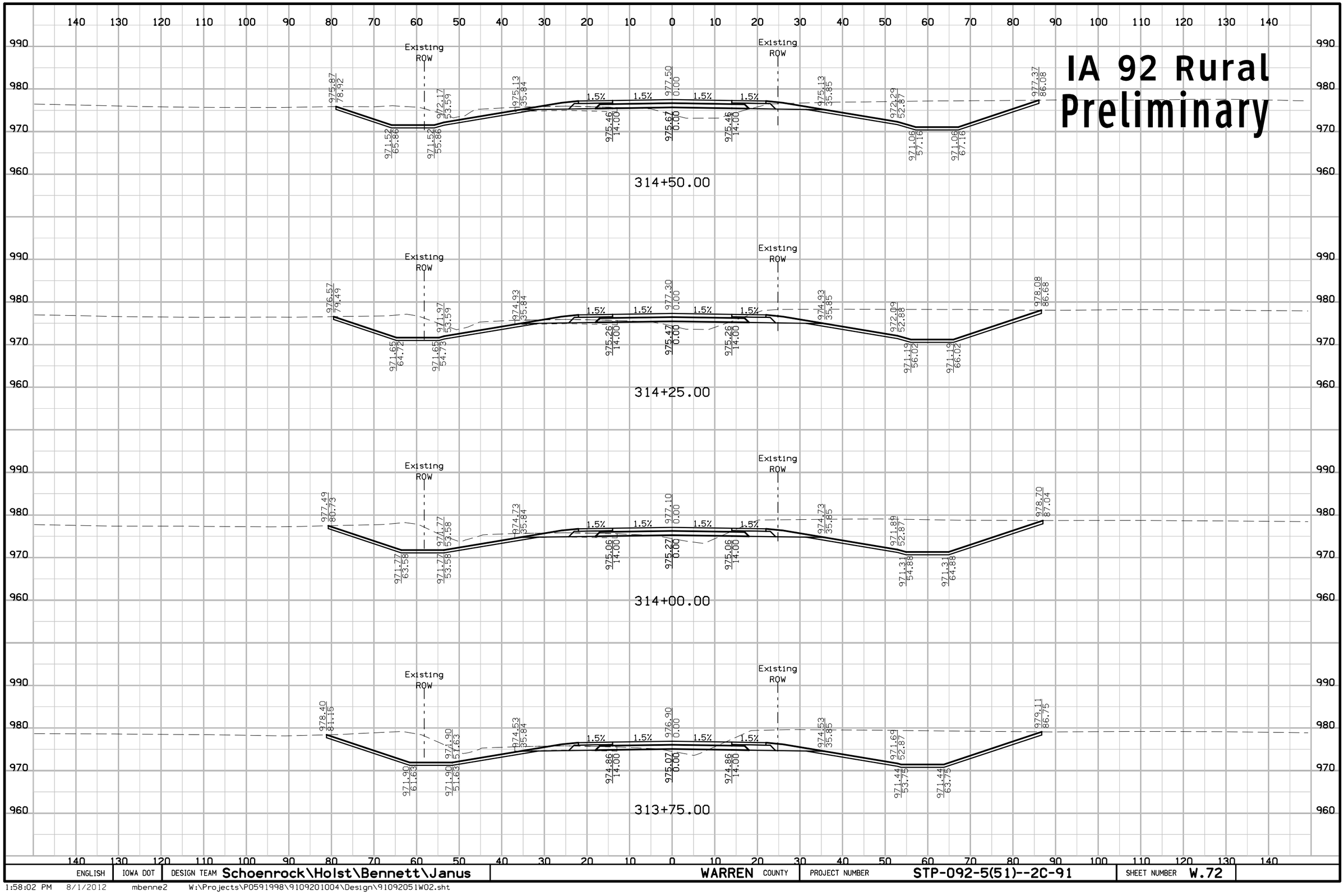
IA 92 Rural
Preliminary



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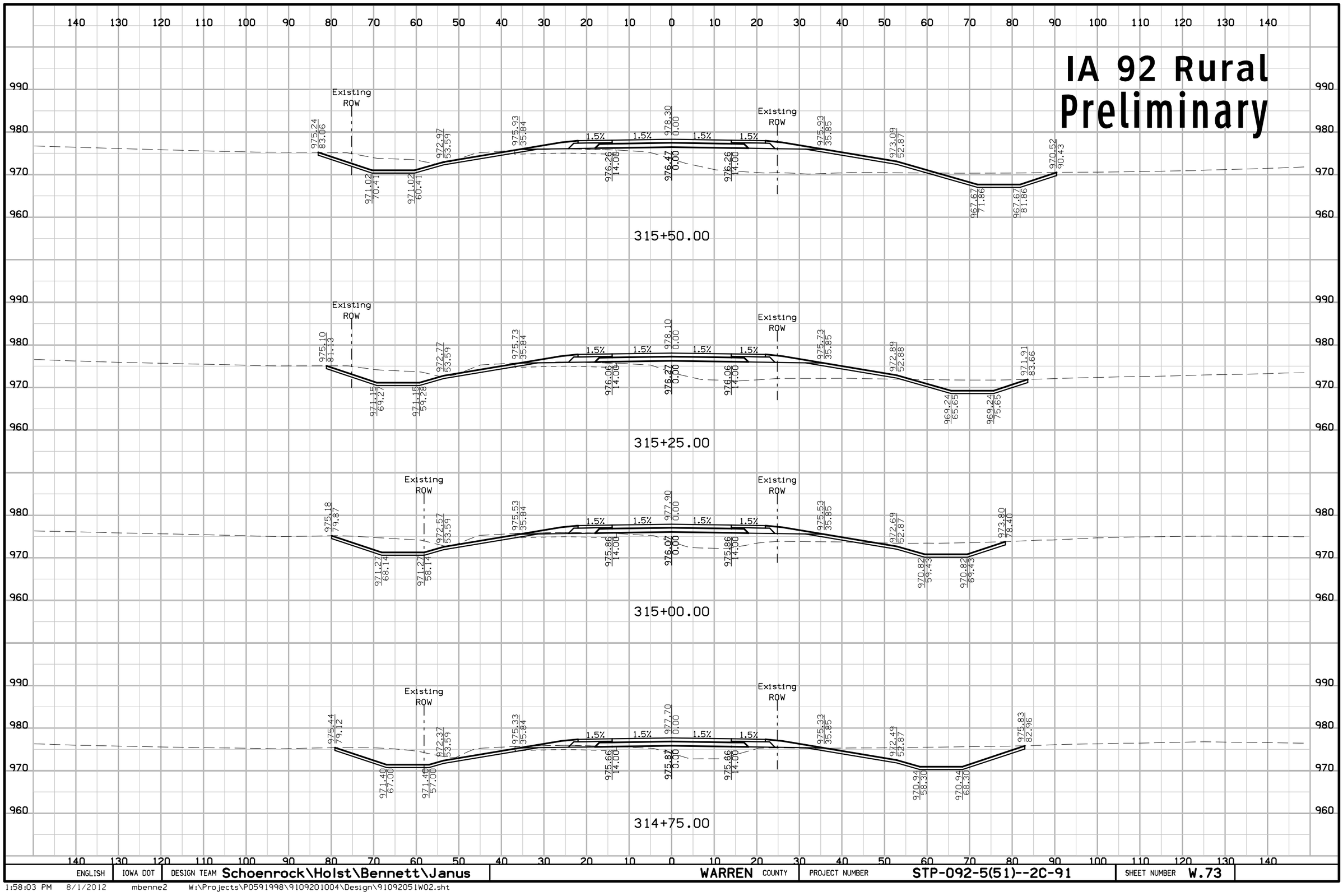
IA 92 Rural Preliminary



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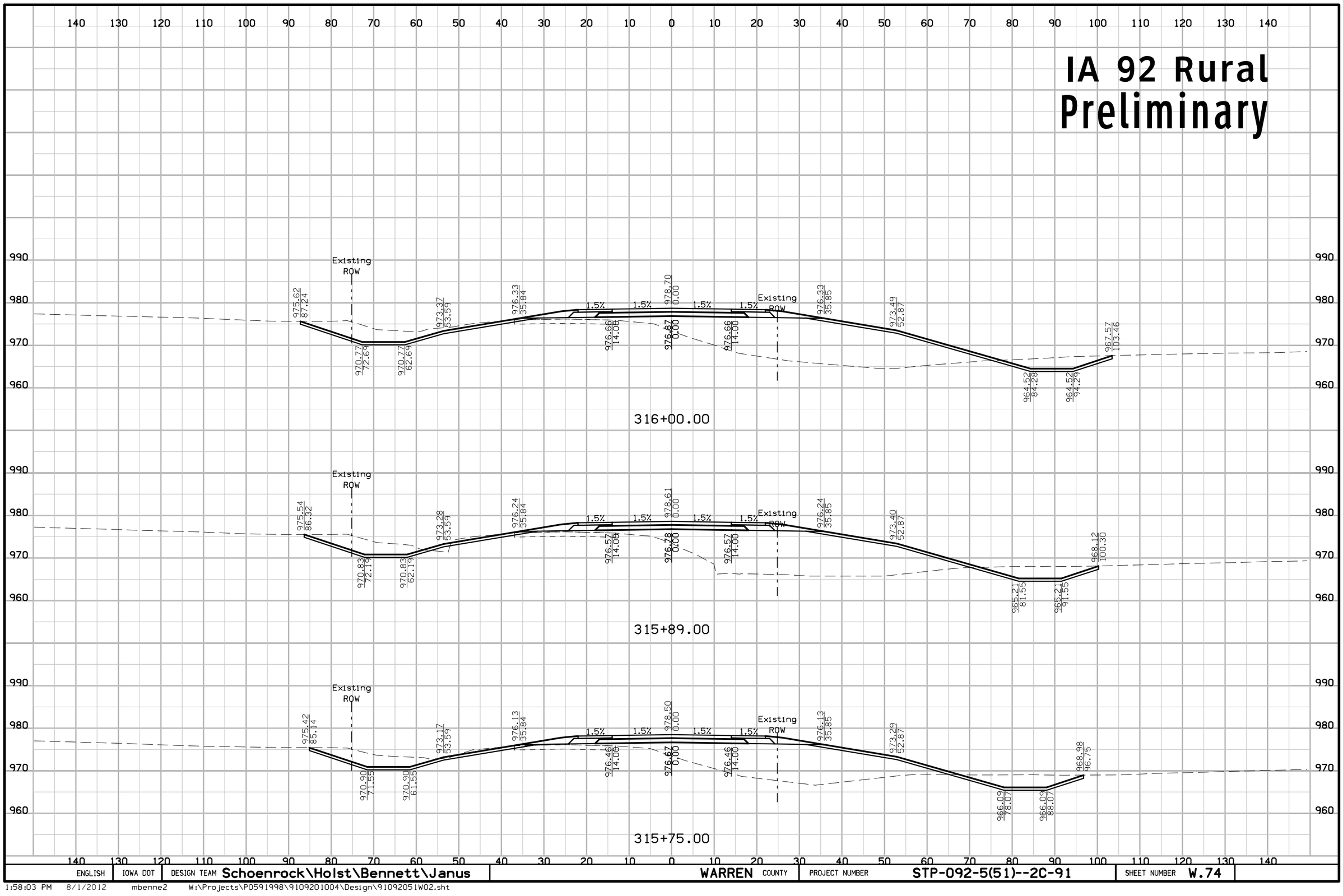
IA 92 Rural
Preliminary



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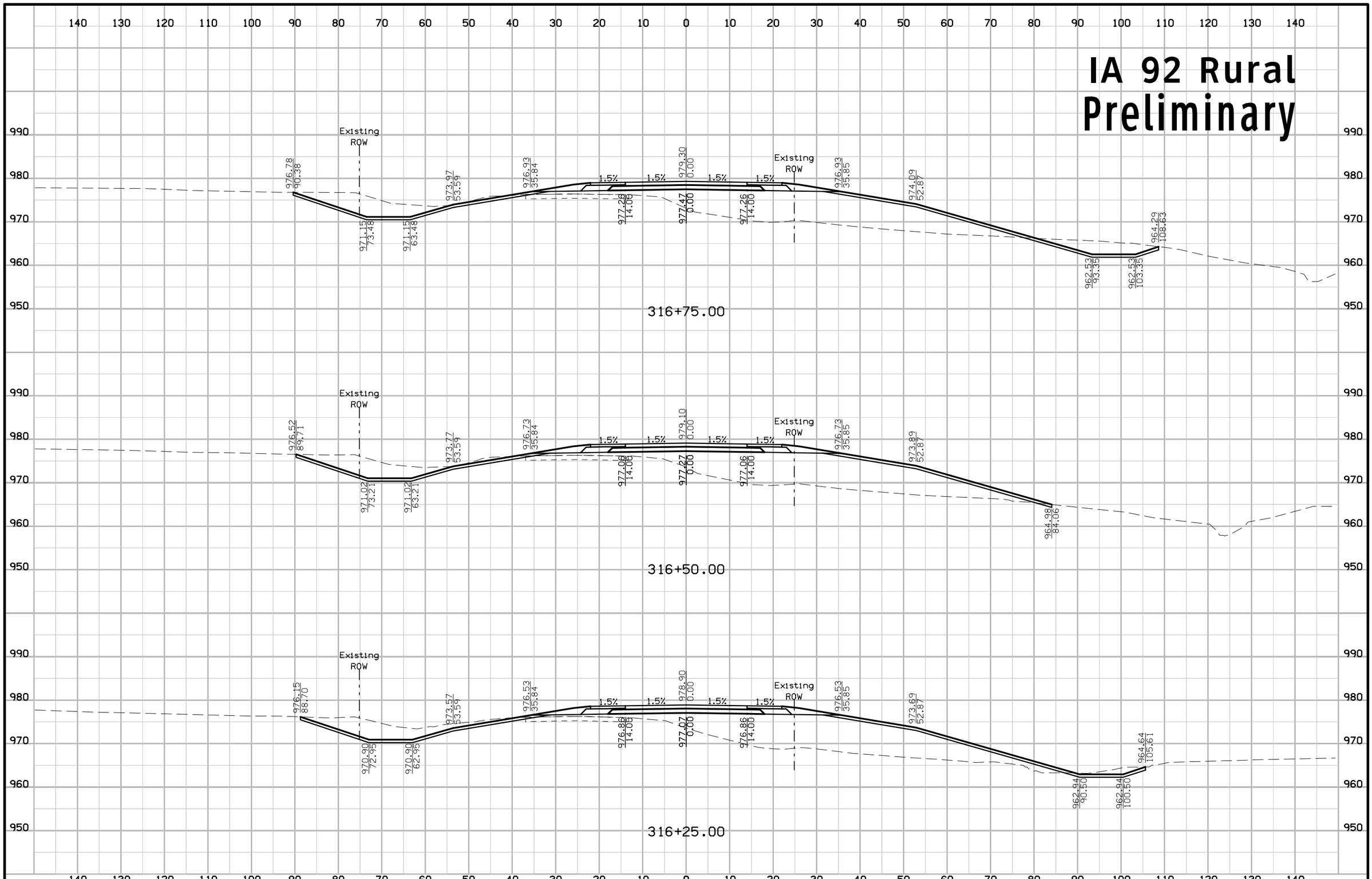
IA 92 Rural
Preliminary



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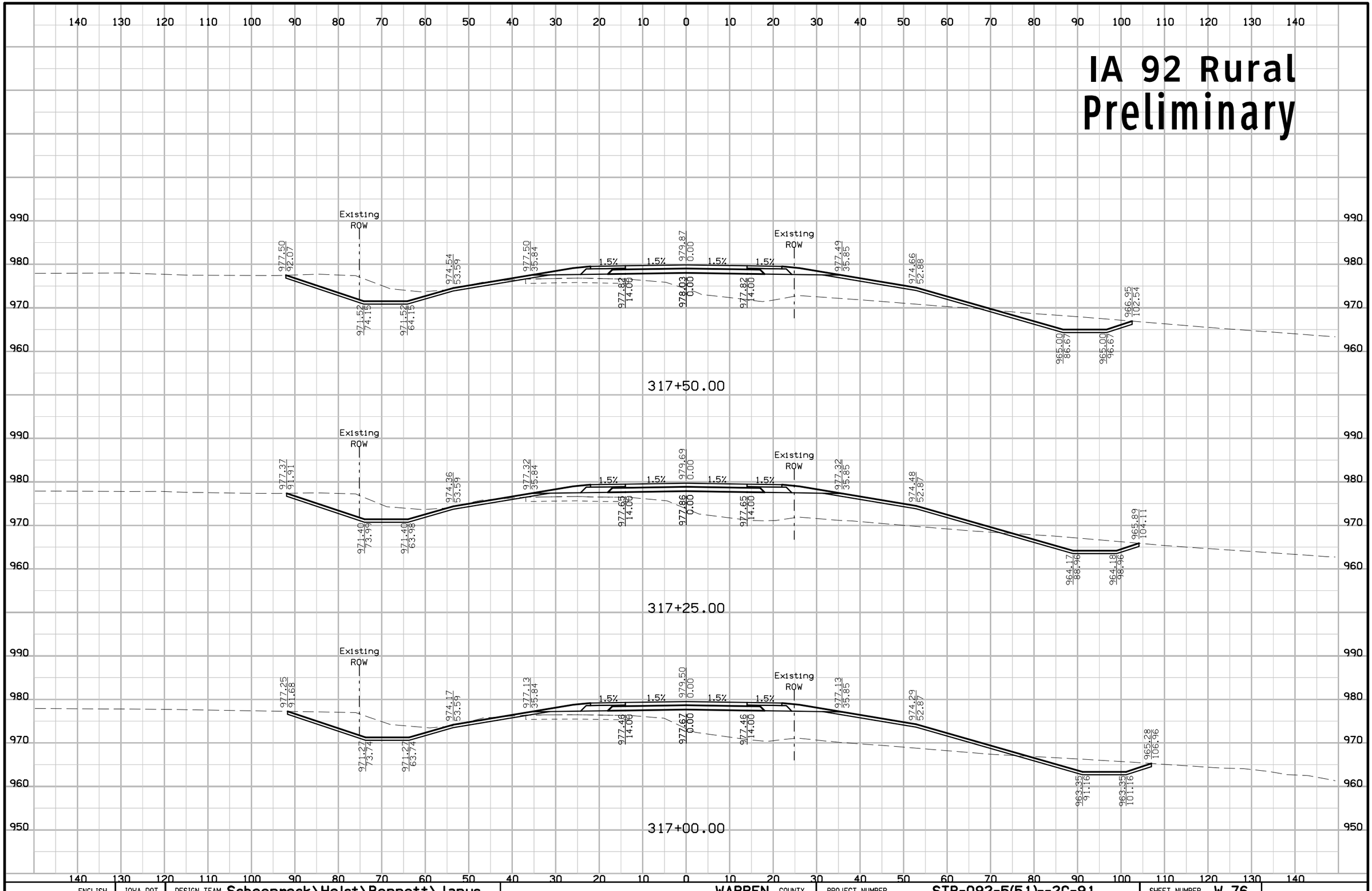
IA 92 Rural
Preliminary



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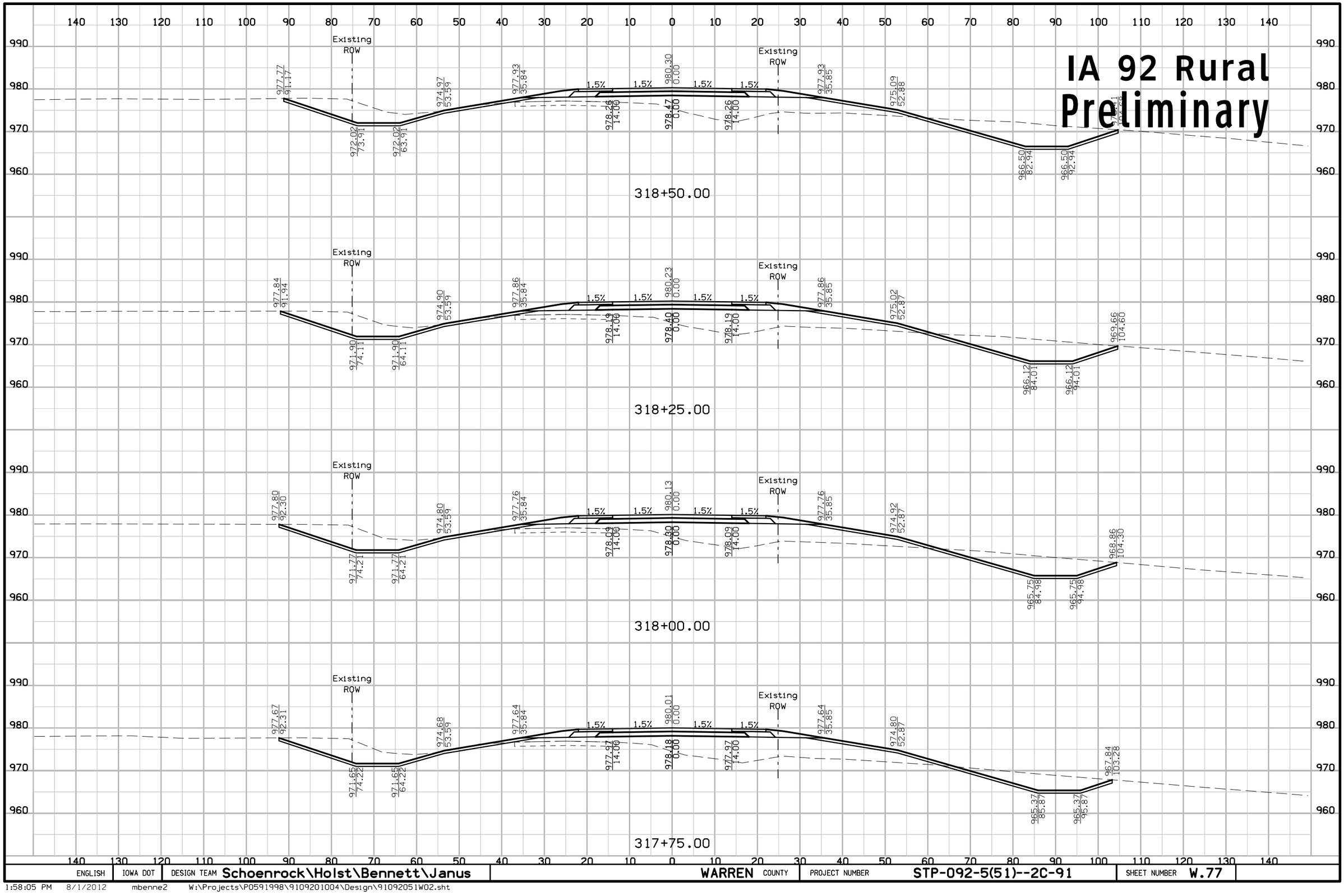
IA 92 Rural Preliminary



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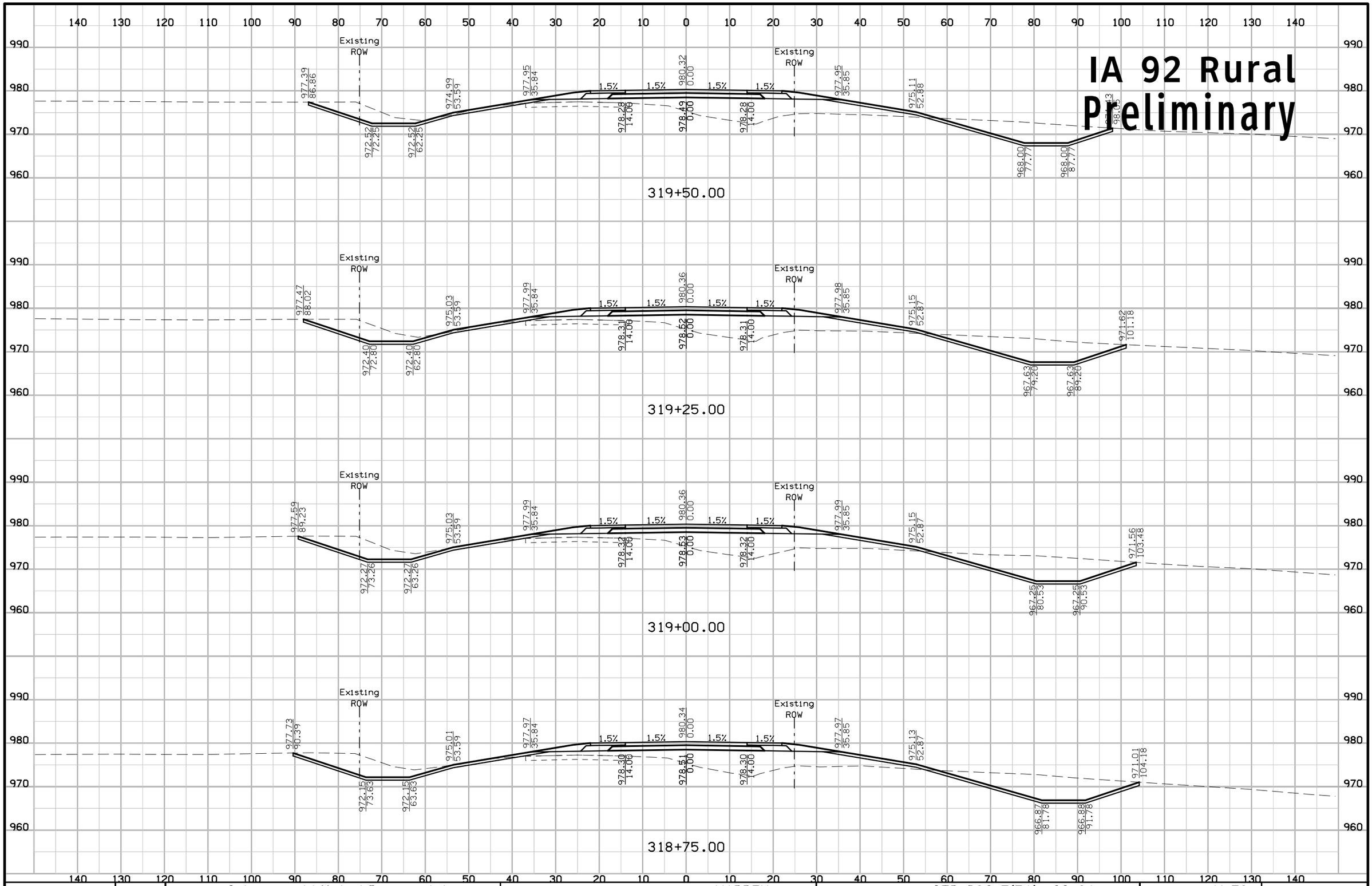
IA 92 Rural Preliminary



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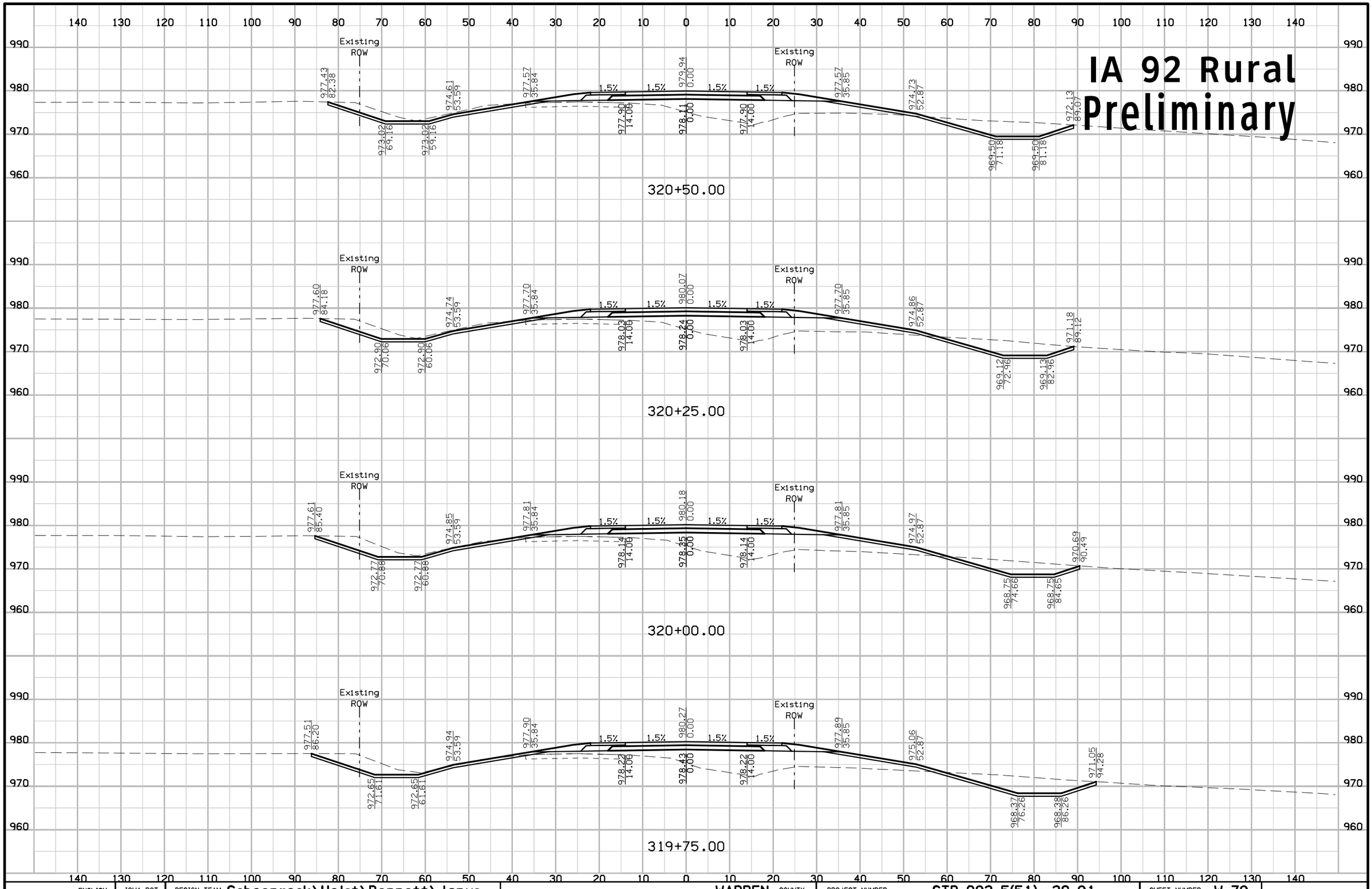
IA 92 Rural
Preliminary



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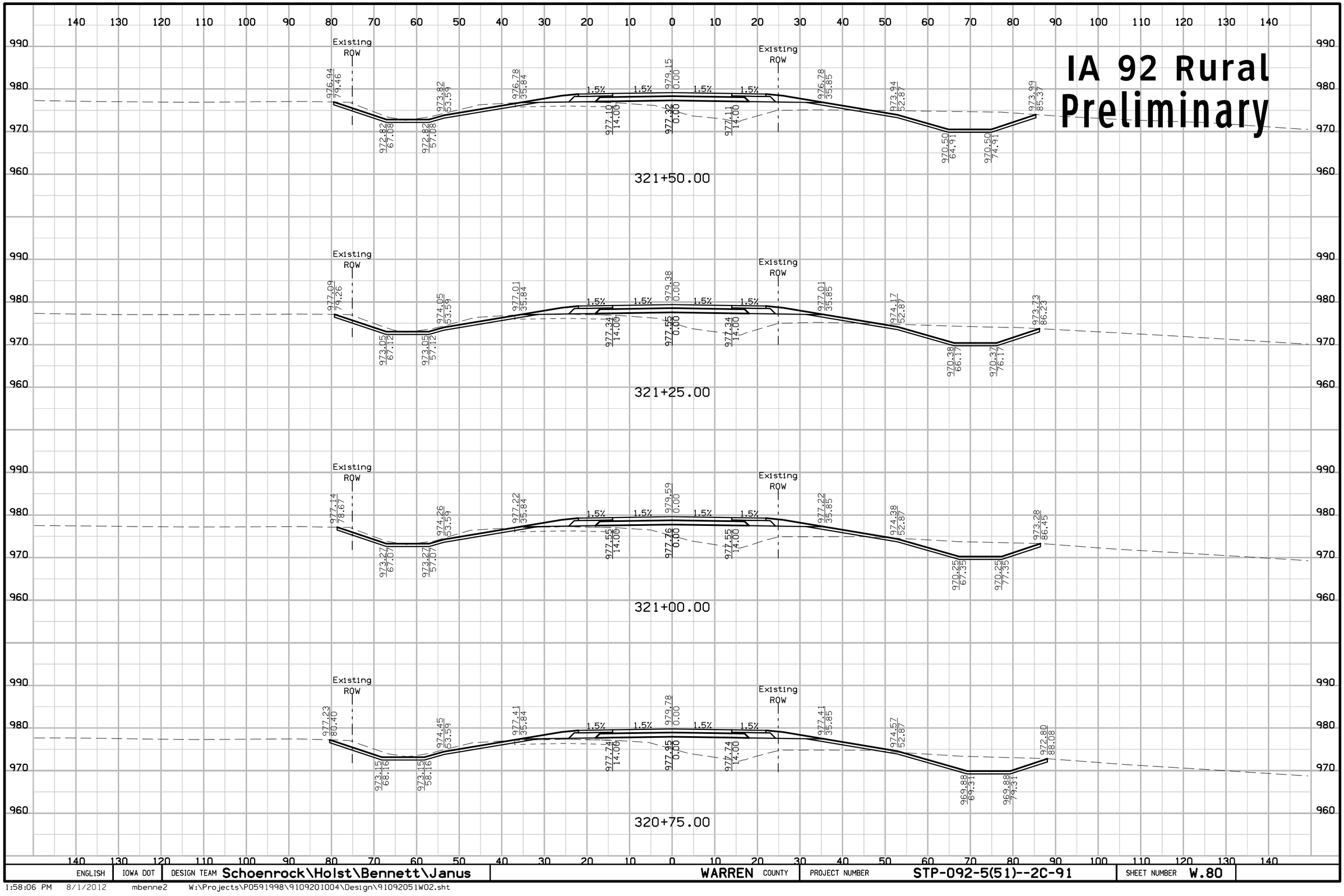
IA 92 Rural
Preliminary



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IA 92 Rural
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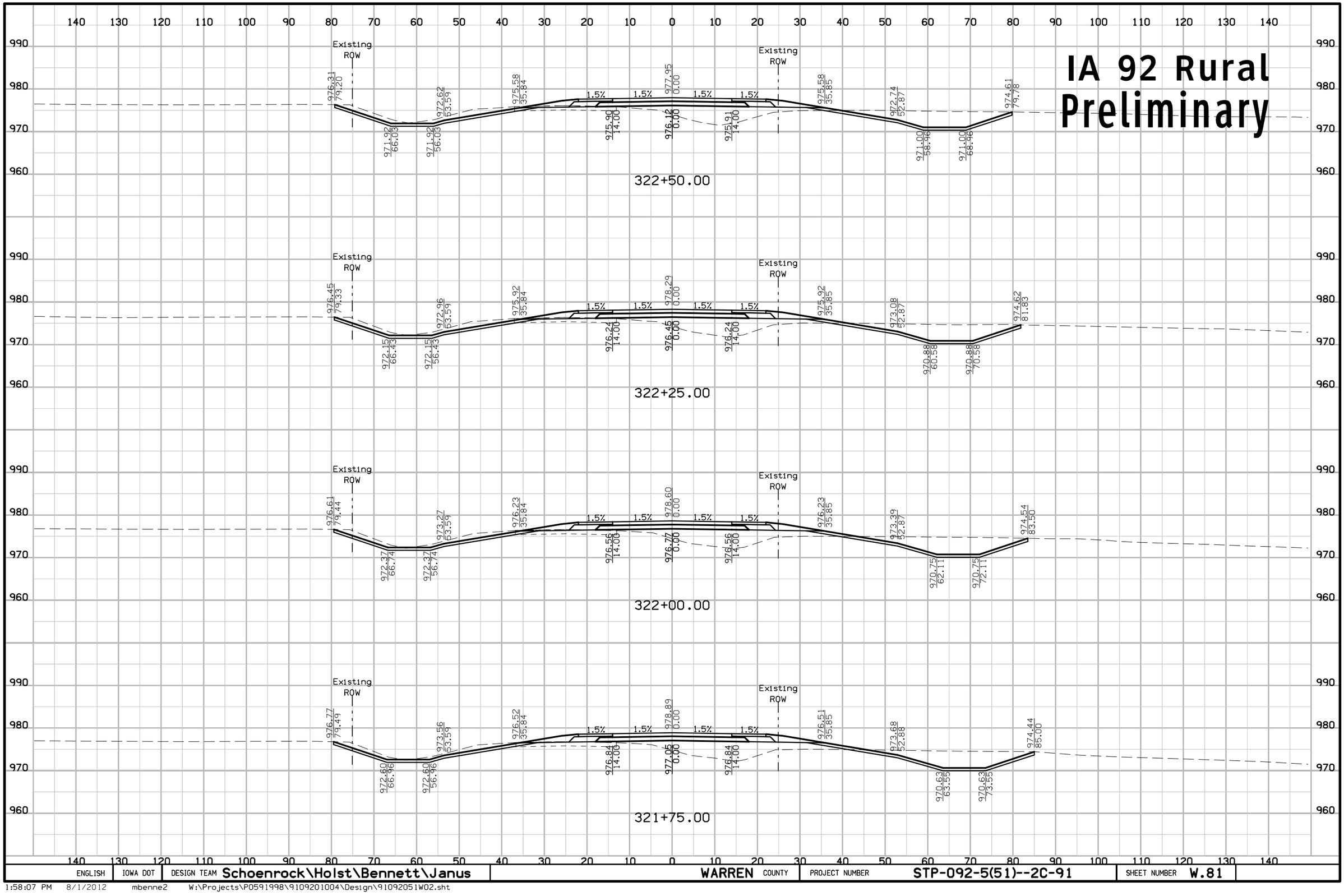

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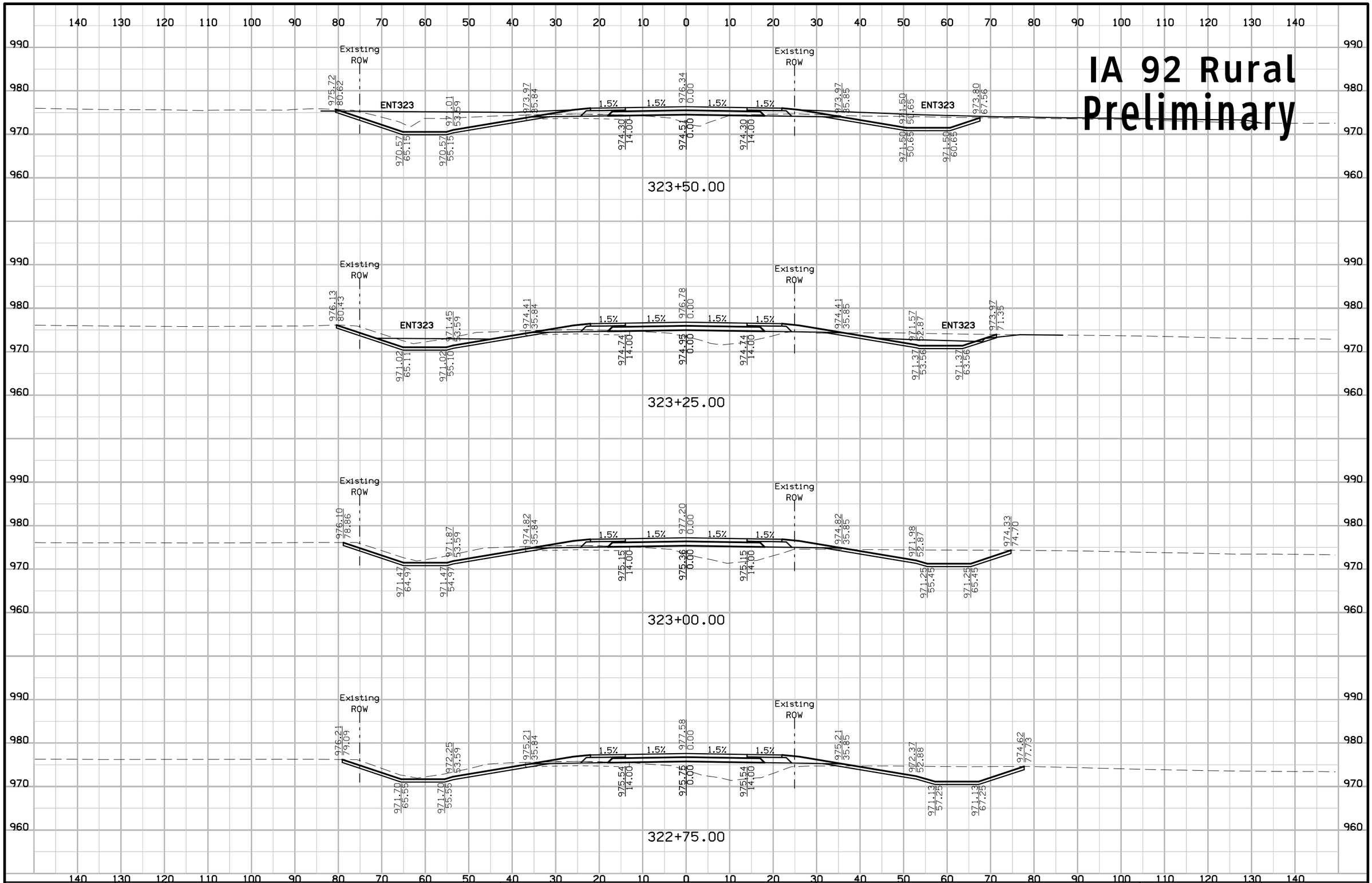
IA 92 Rural
Preliminary



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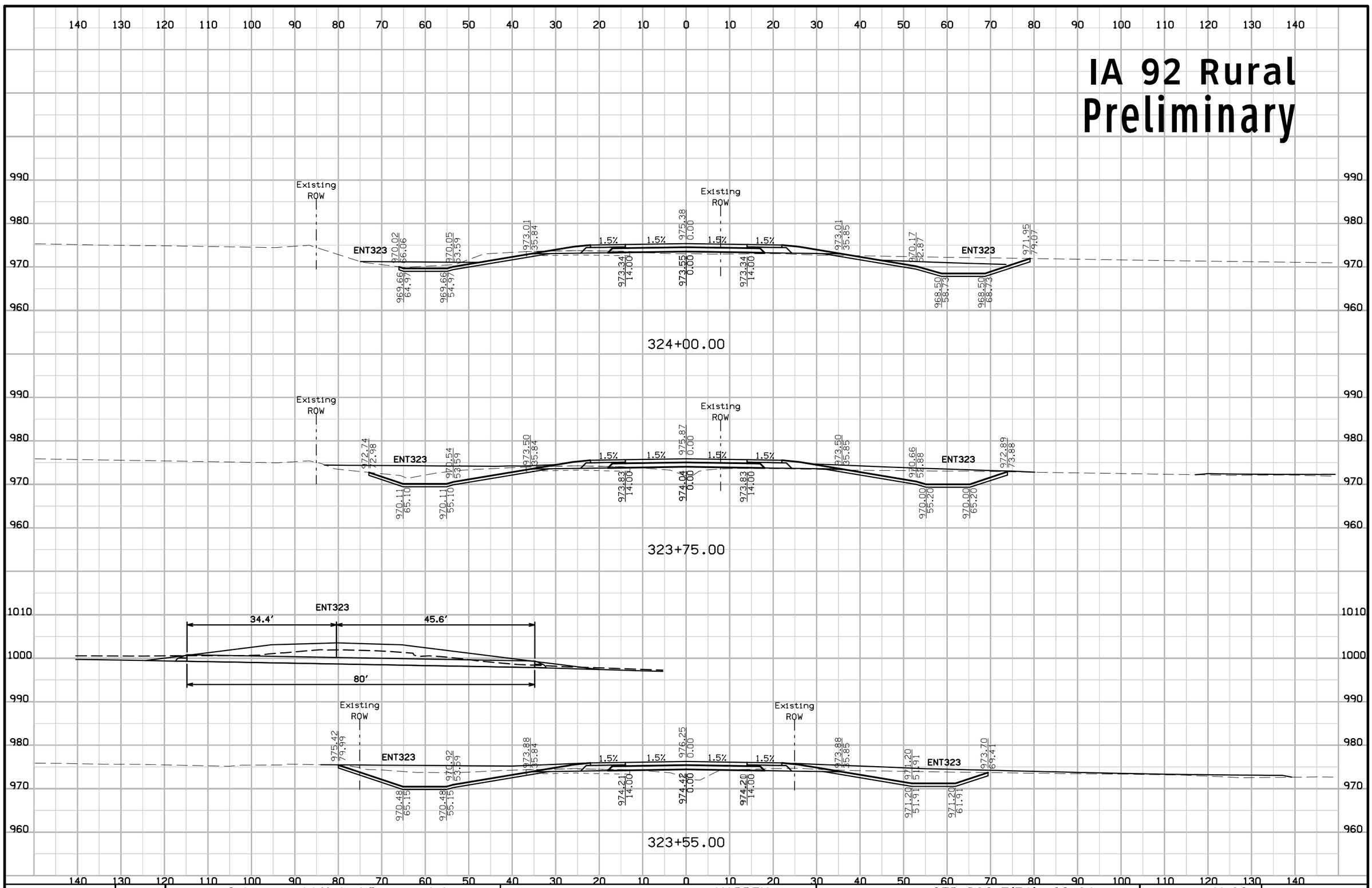
IA 92 Rural
Preliminary



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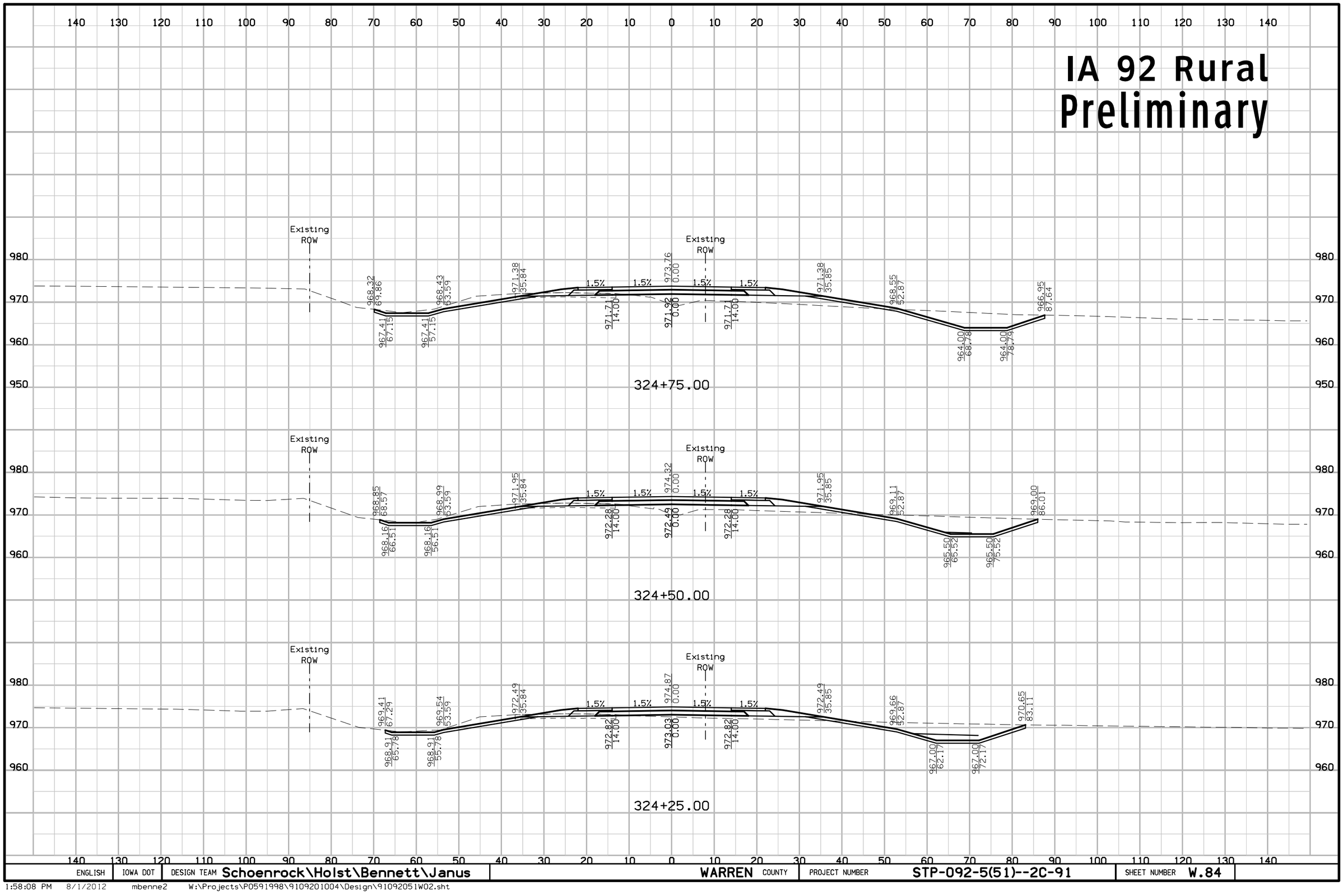
IA 92 Rural
Preliminary



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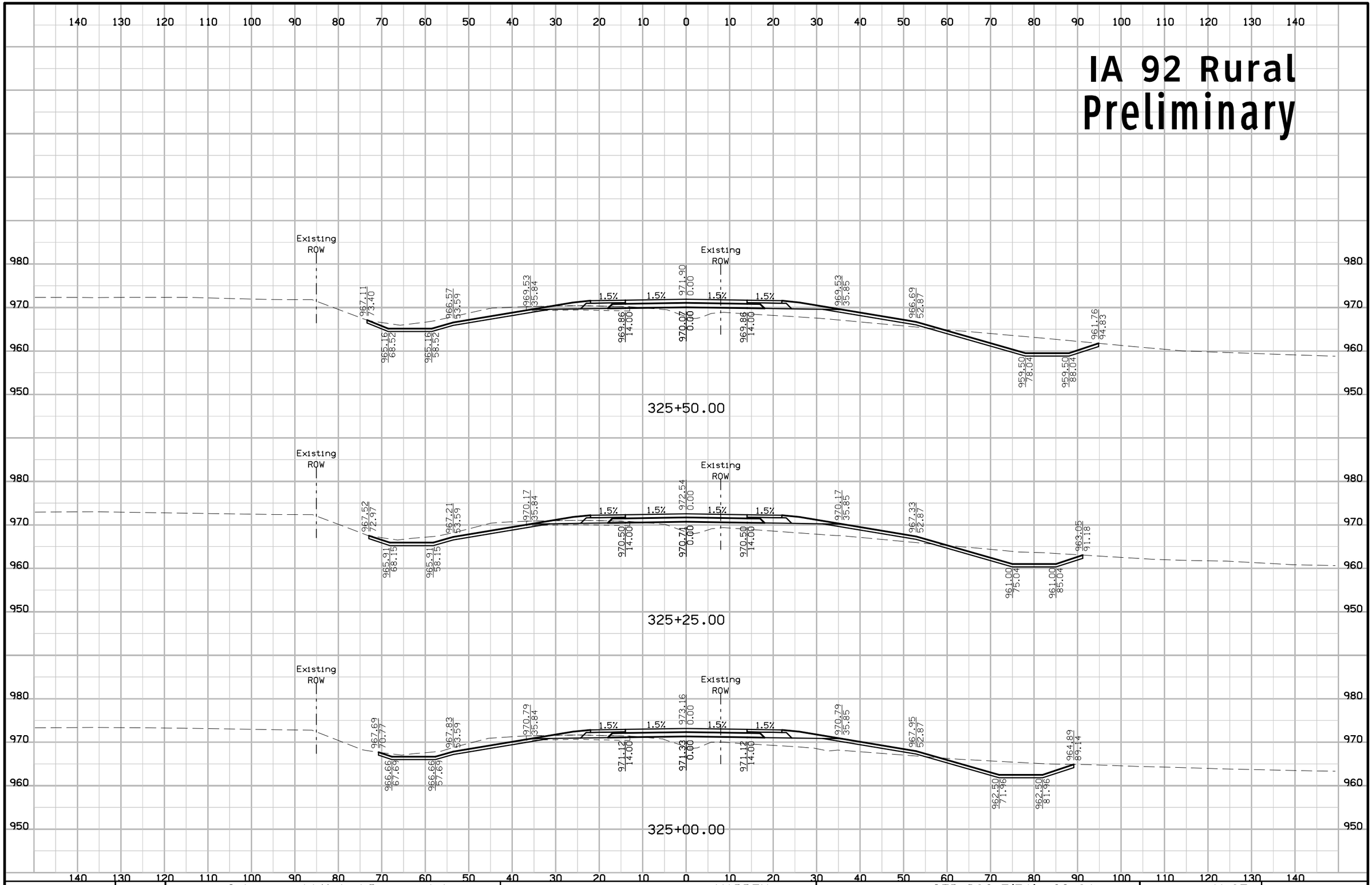
IA 92 Rural
Preliminary



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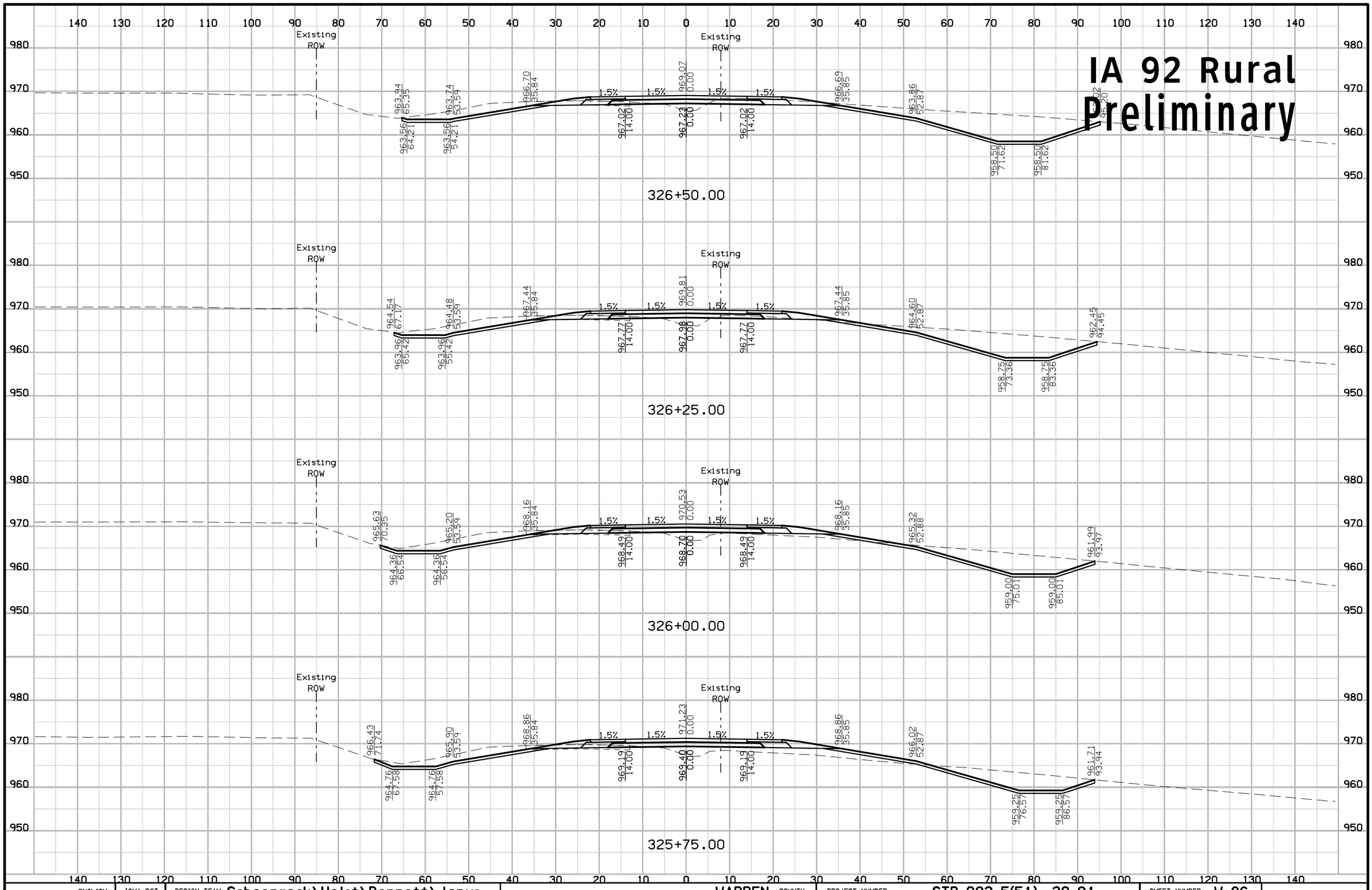
IA 92 Rural Preliminary



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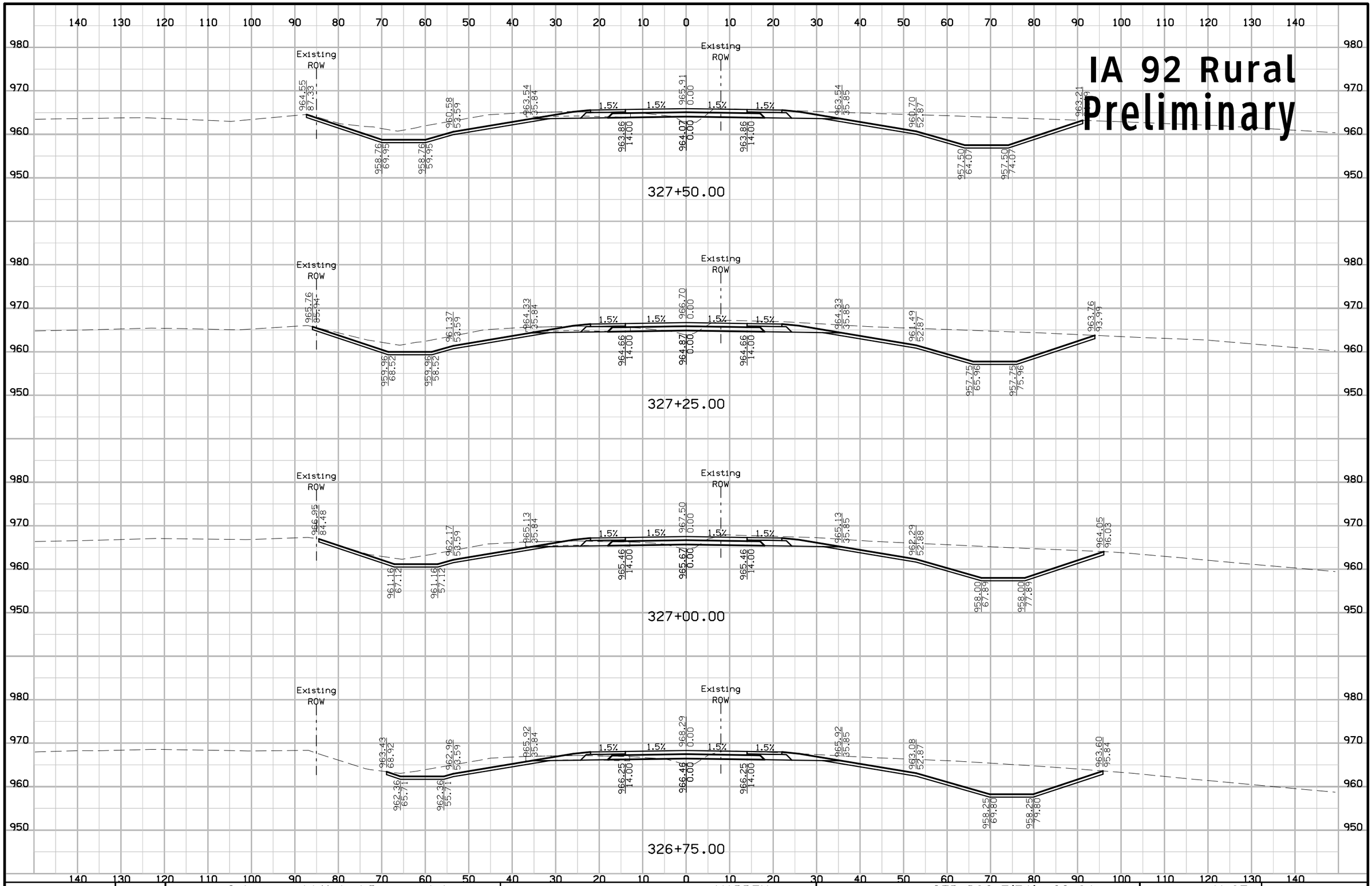
IA 92 Rural Preliminary



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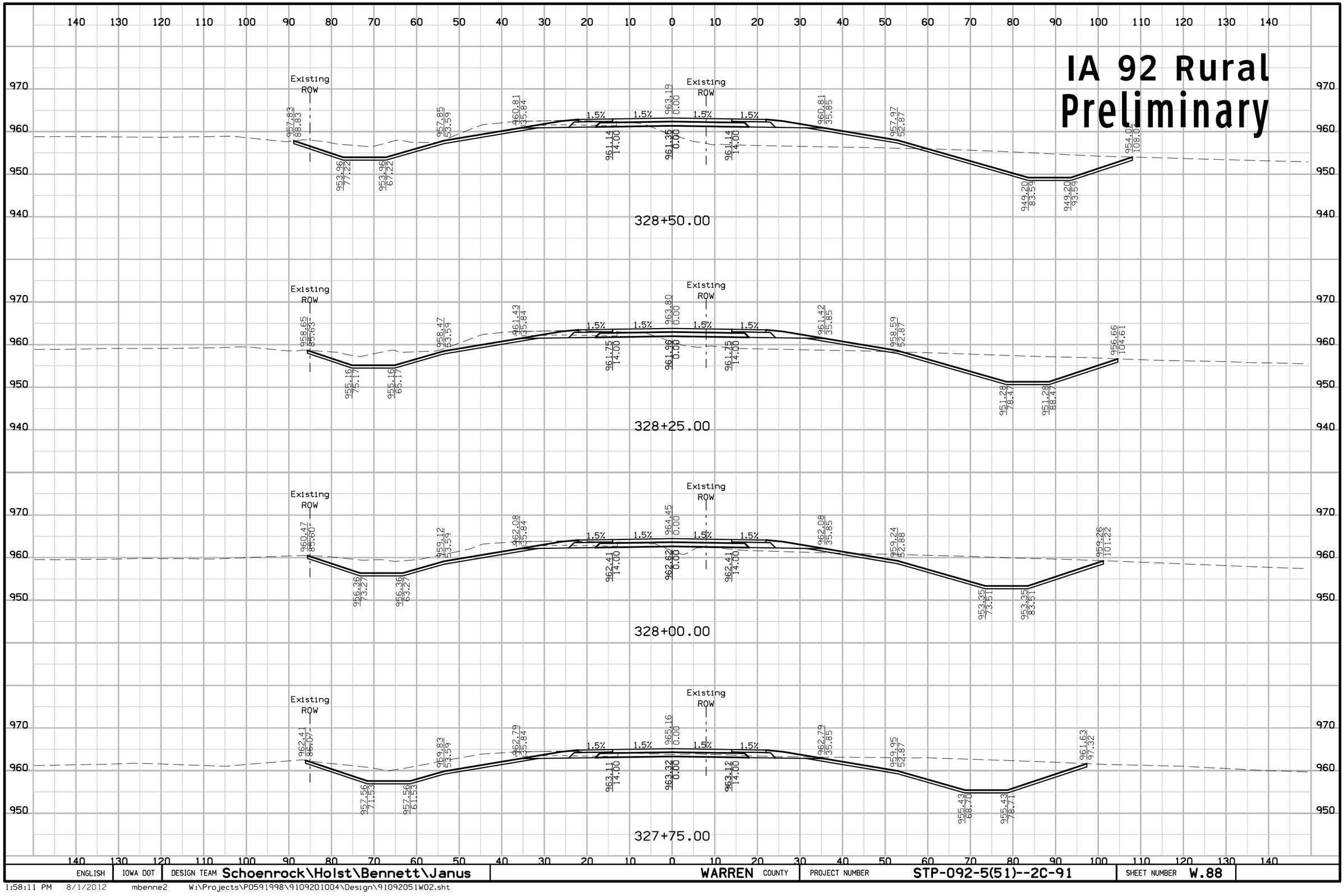
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.88

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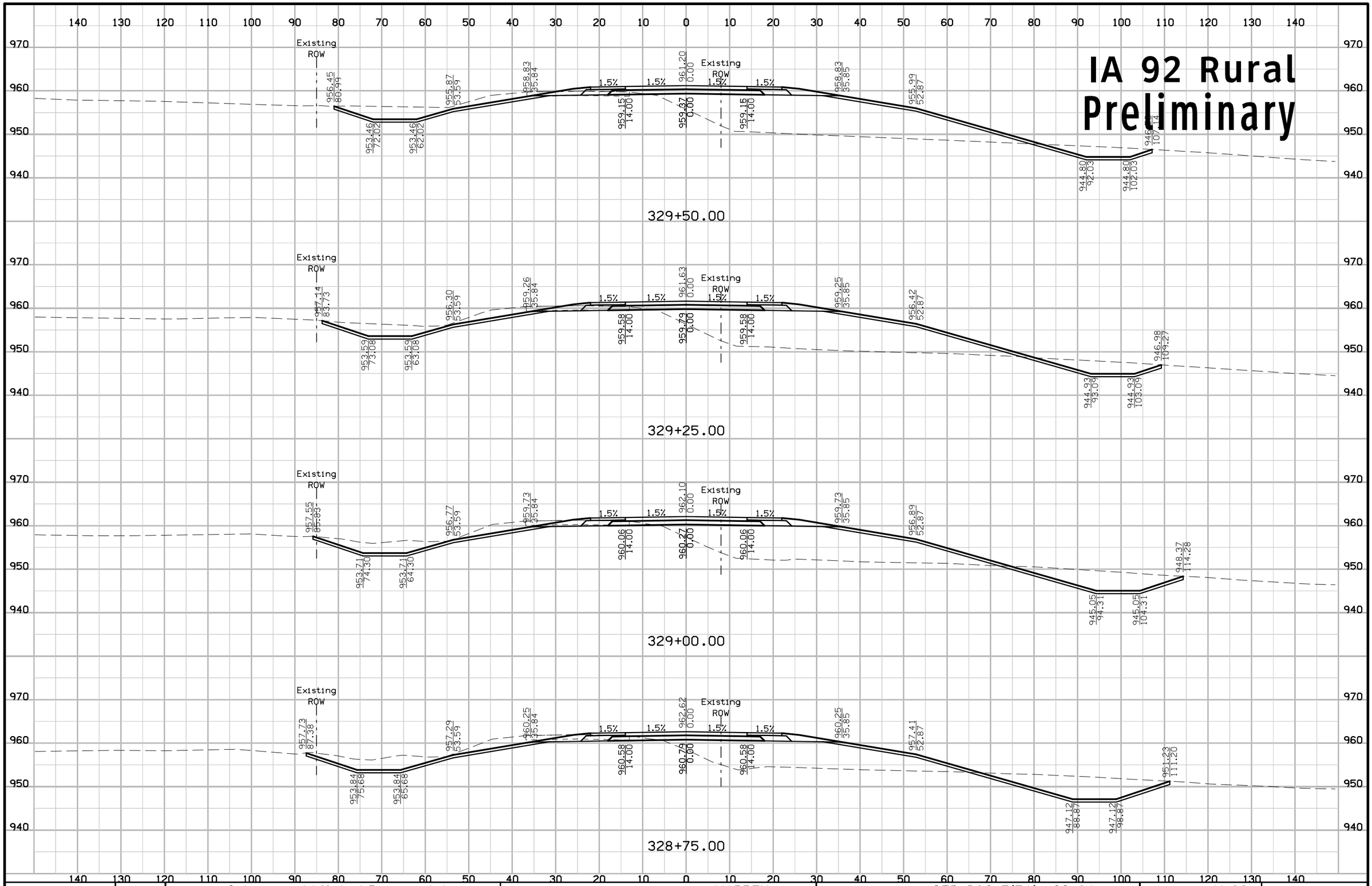
IA 92 Rural Preliminary



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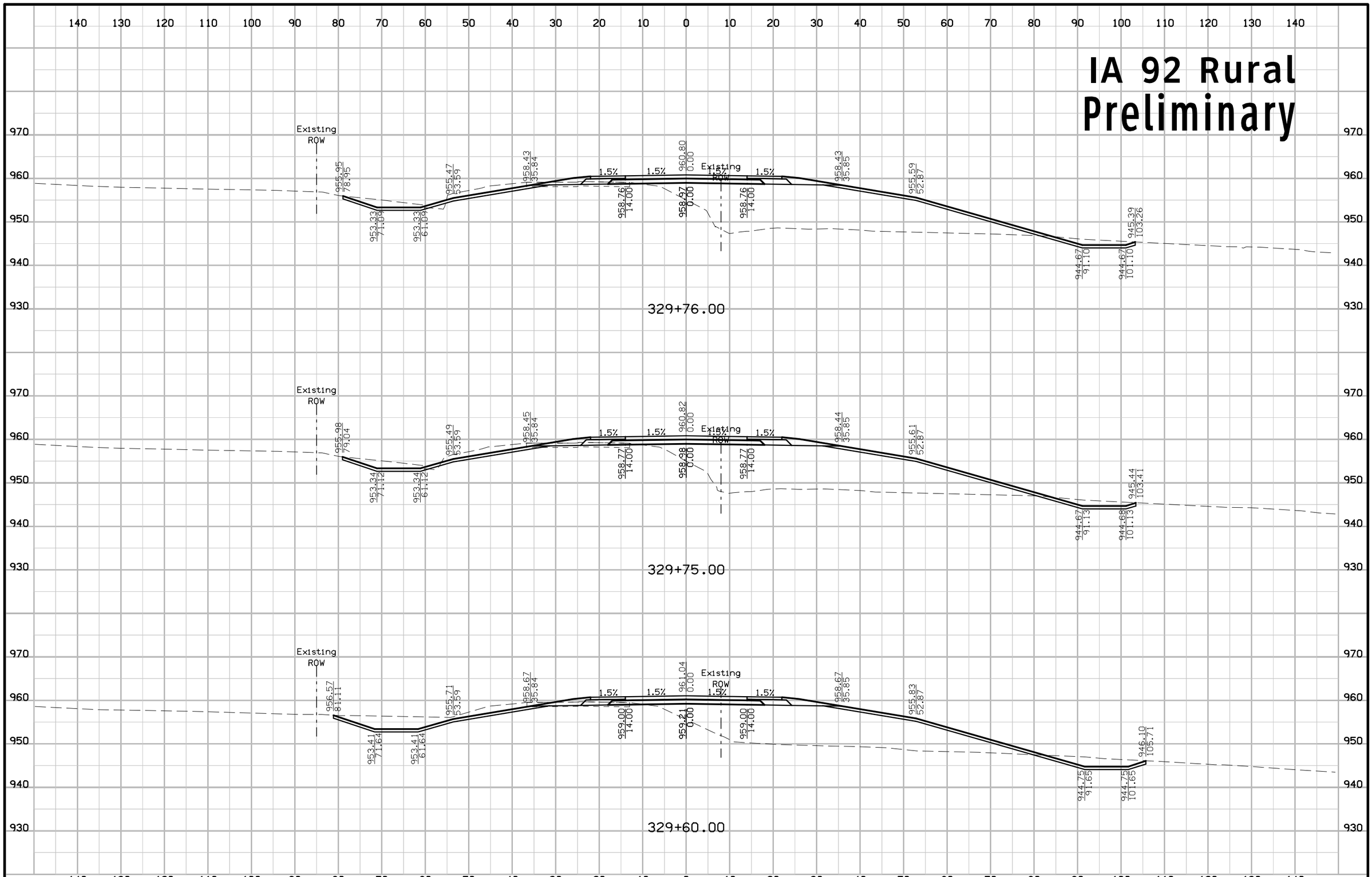
IA 92 Rural Preliminary



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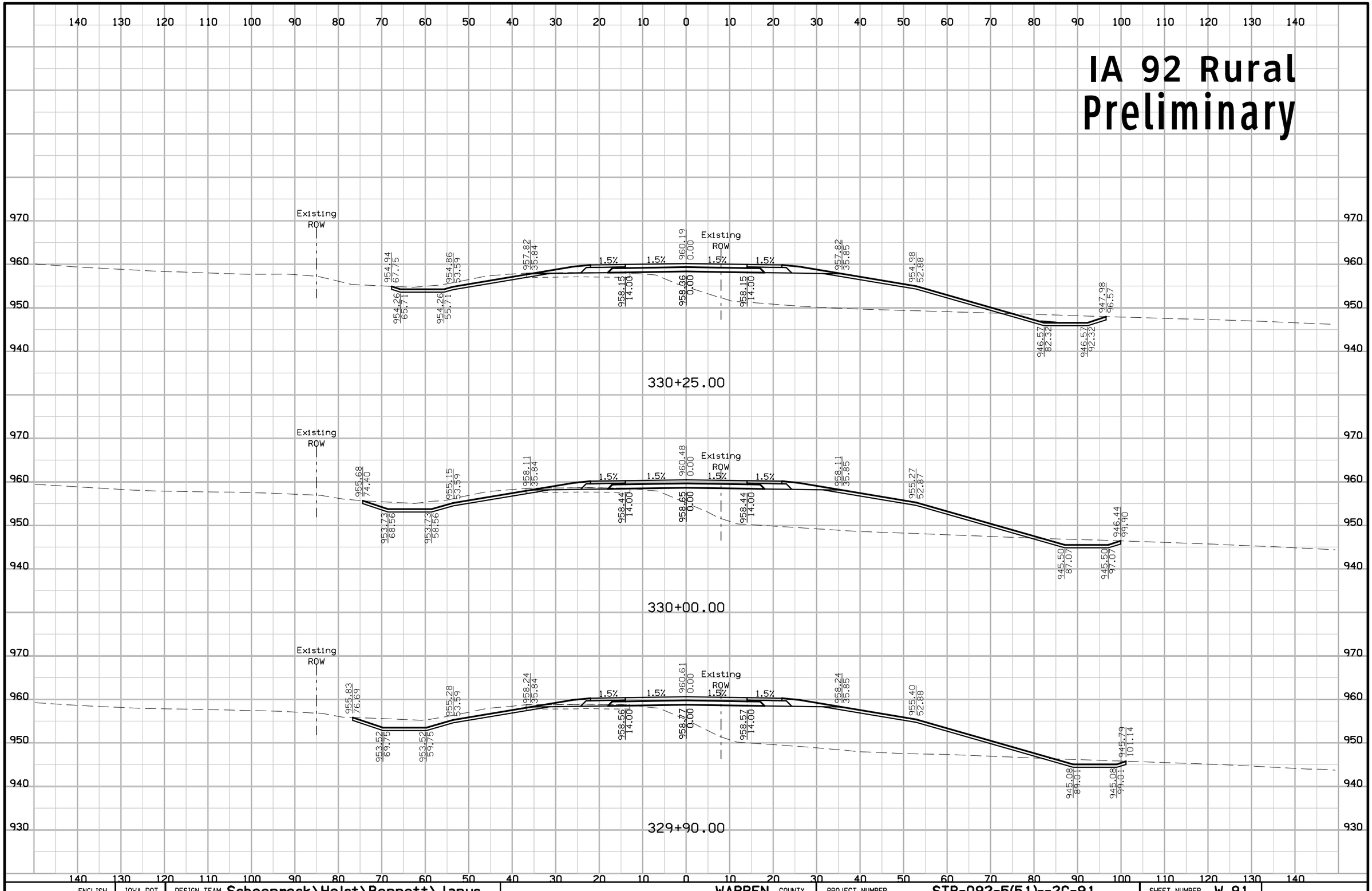
IA 92 Rural
Preliminary



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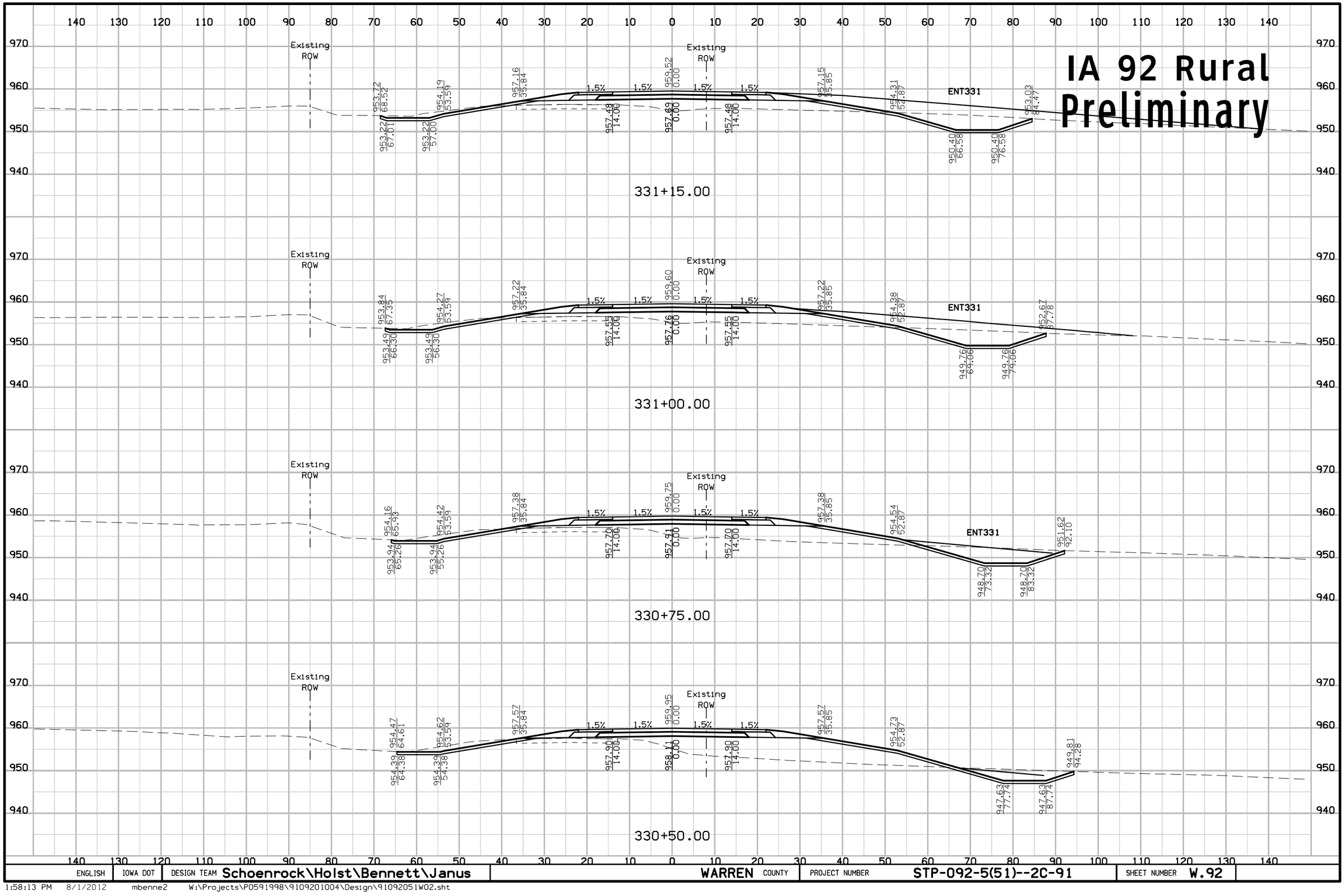
IA 92 Rural Preliminary



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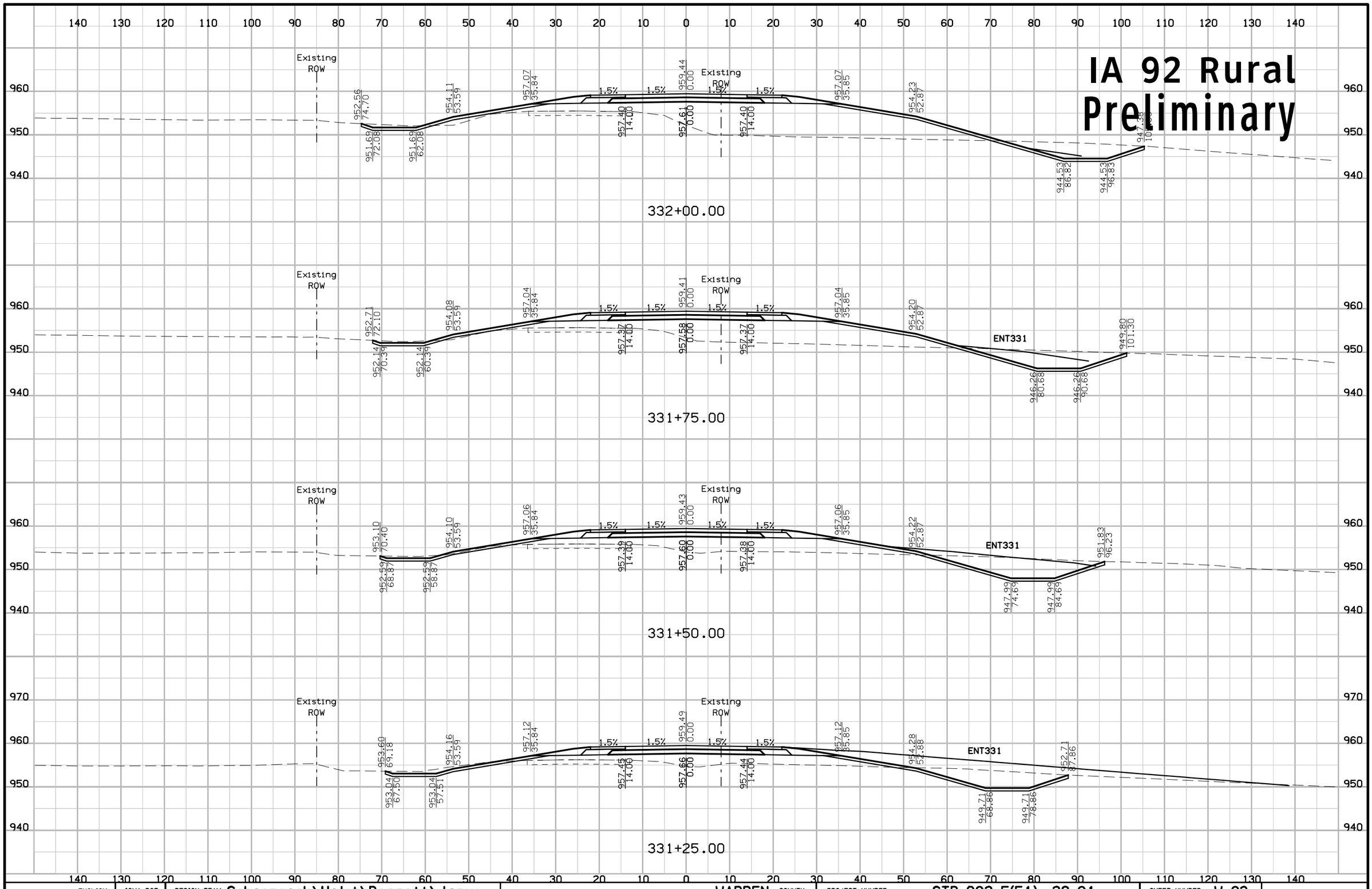
IA 92 Rural Preliminary



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IA 92 Rural
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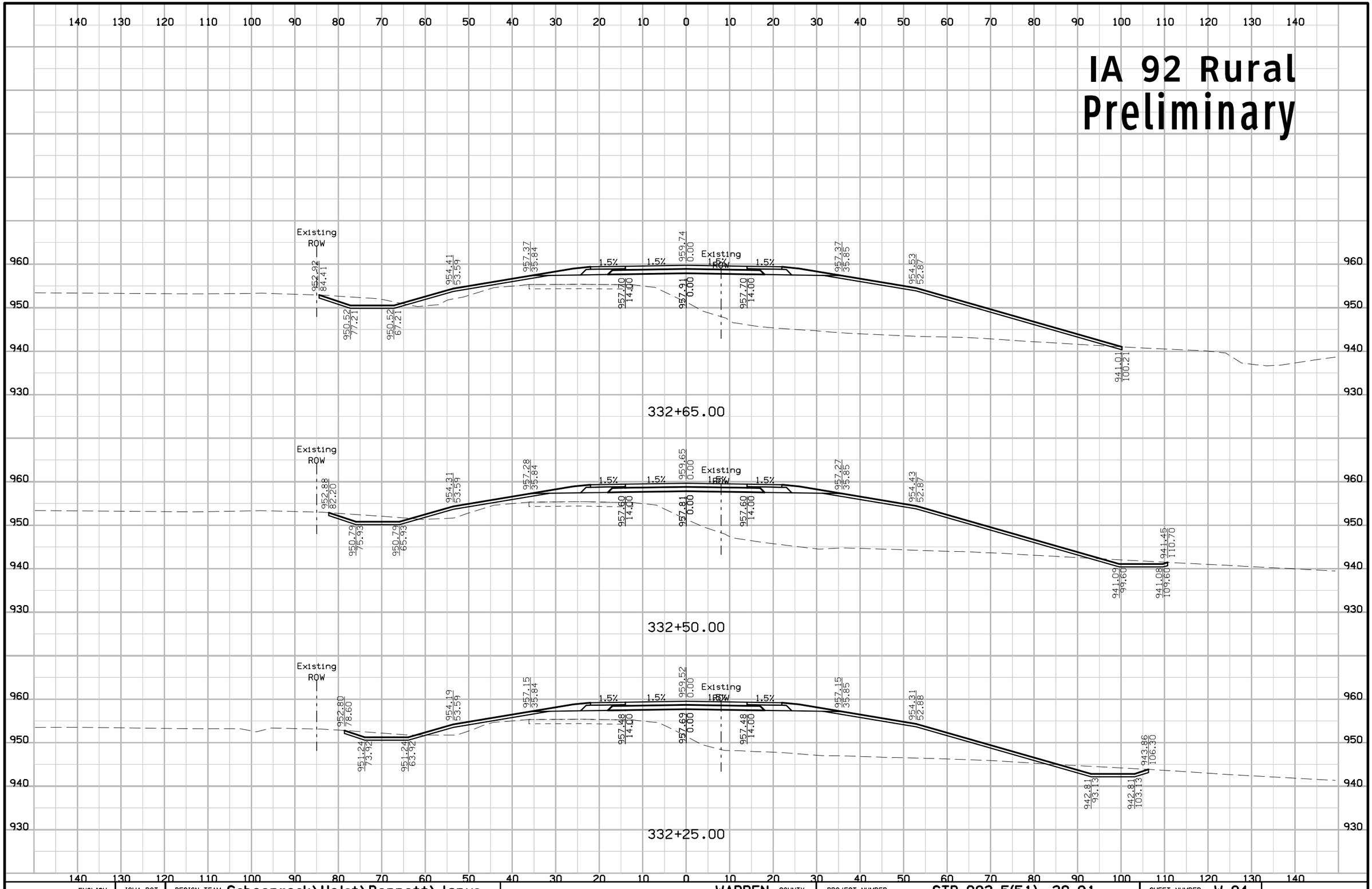

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IA 92 Rural
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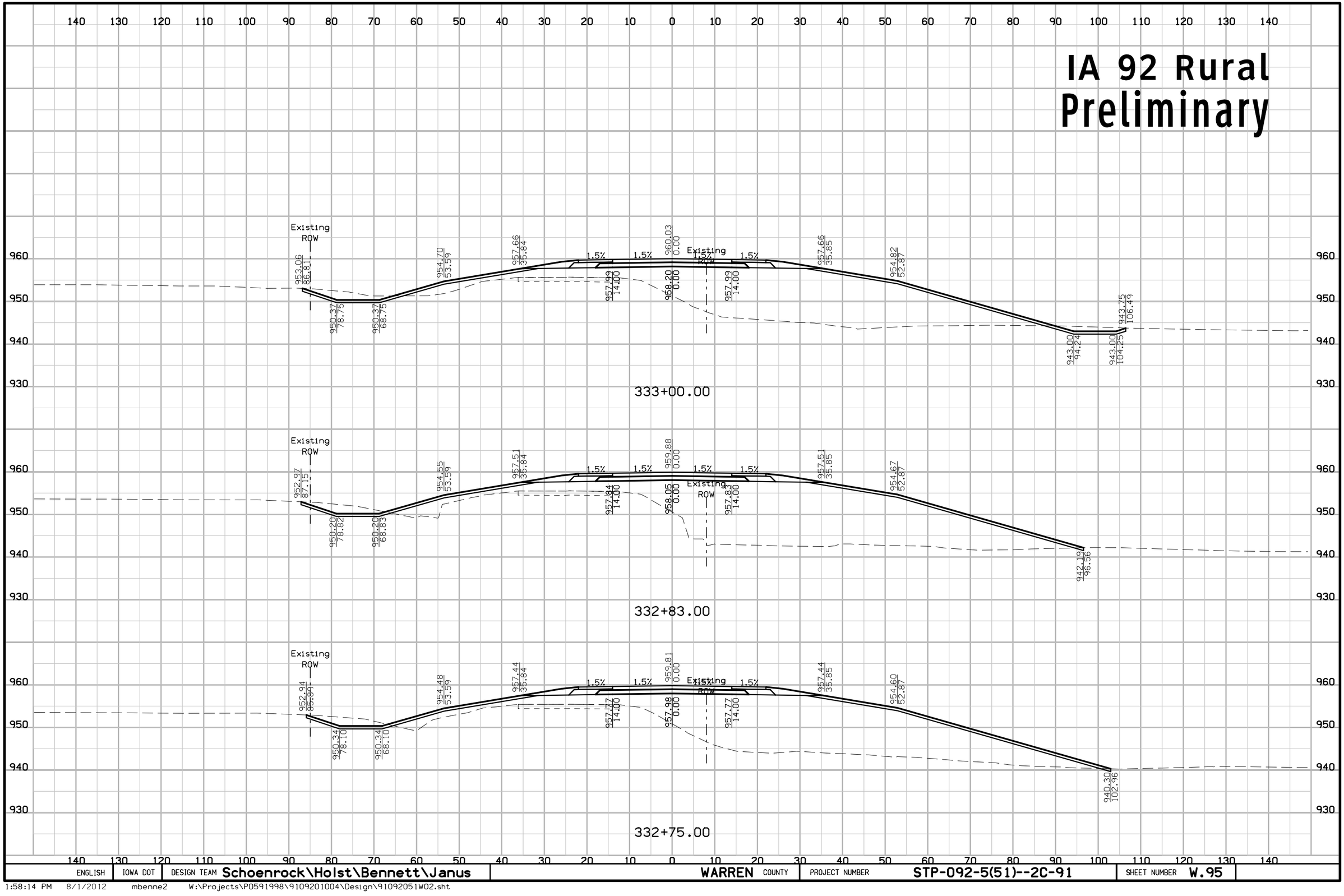

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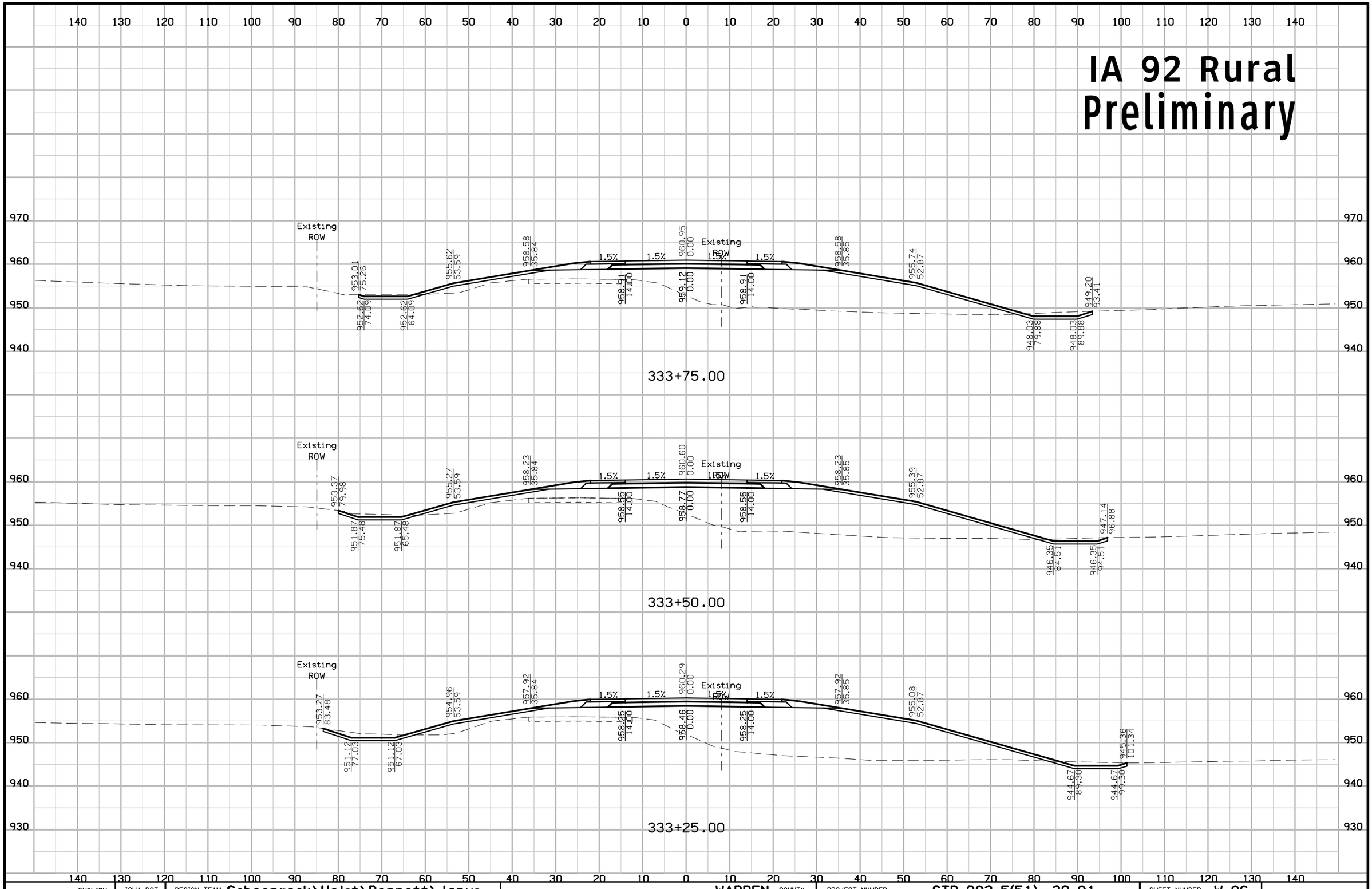
IA 92 Rural
Preliminary



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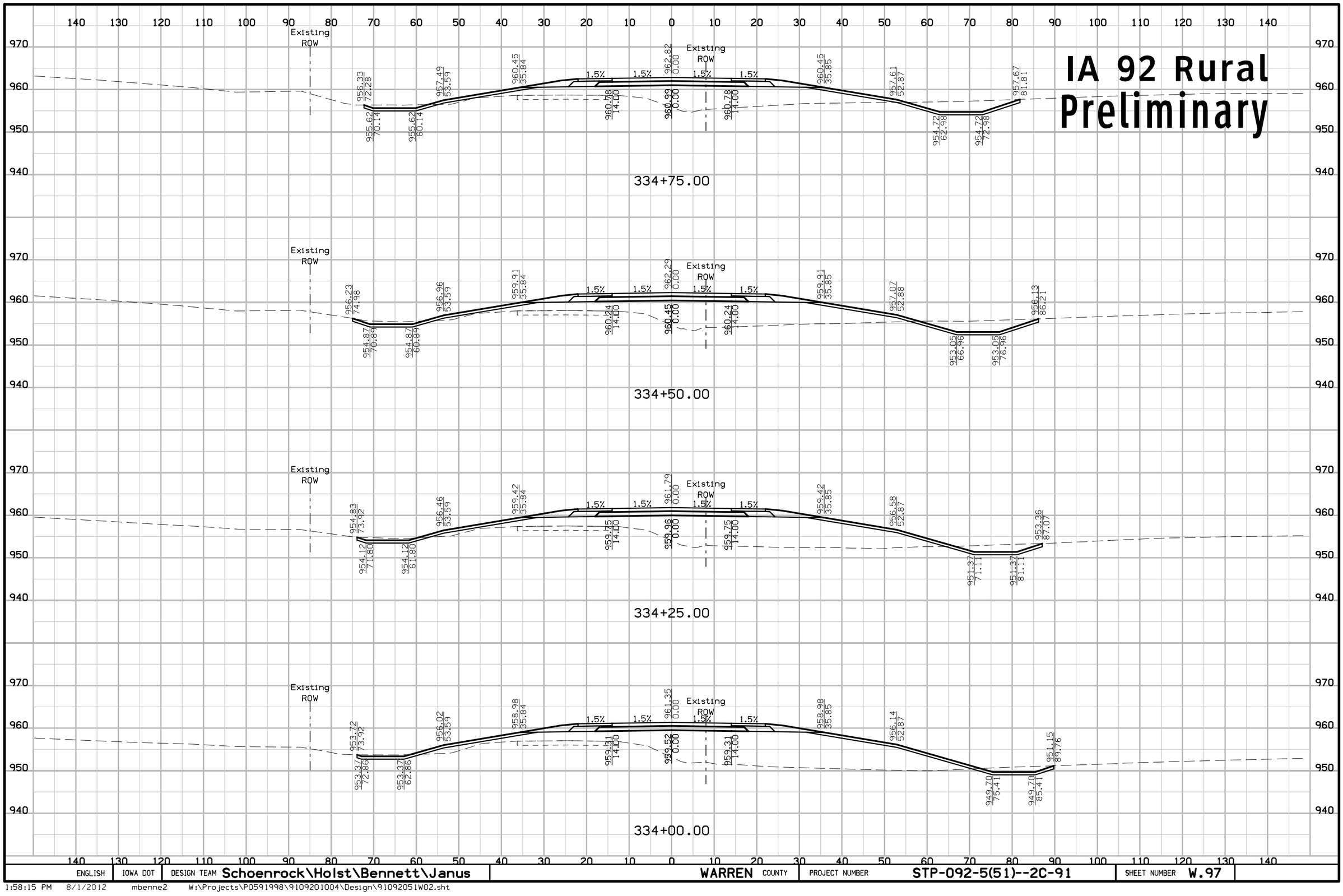
IA 92 Rural
Preliminary



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IA 92 Rural
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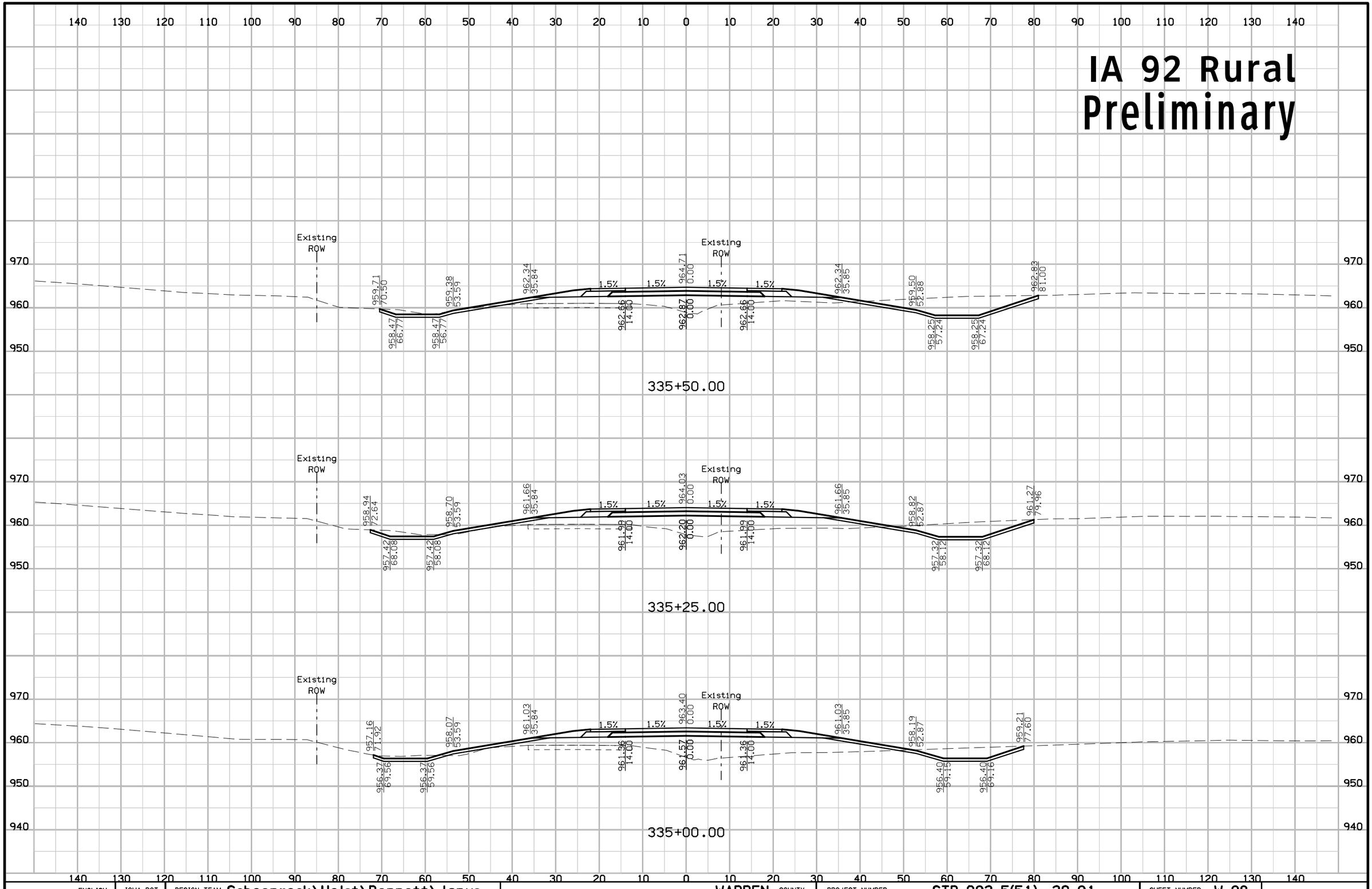

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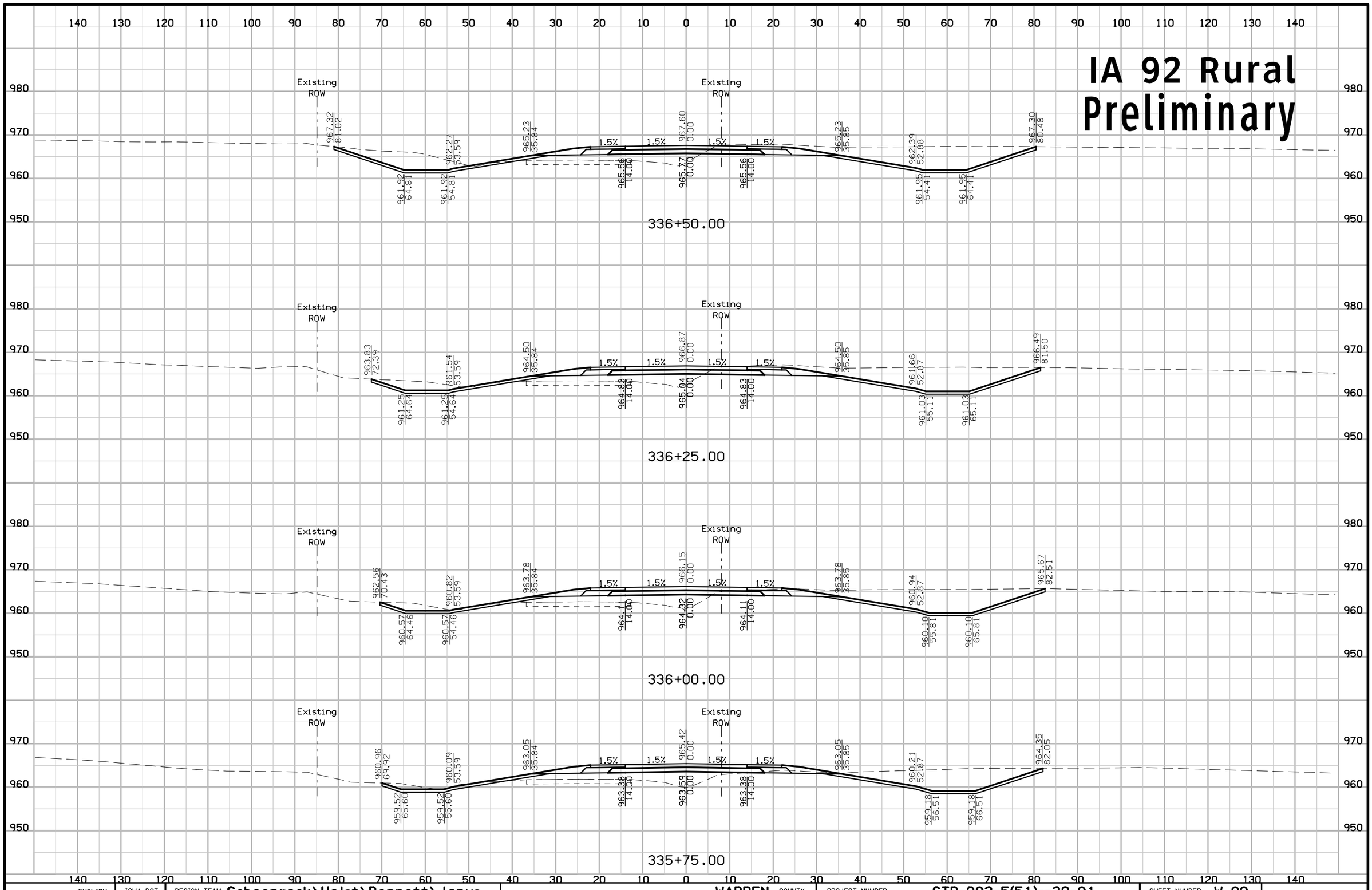
IA 92 Rural Preliminary



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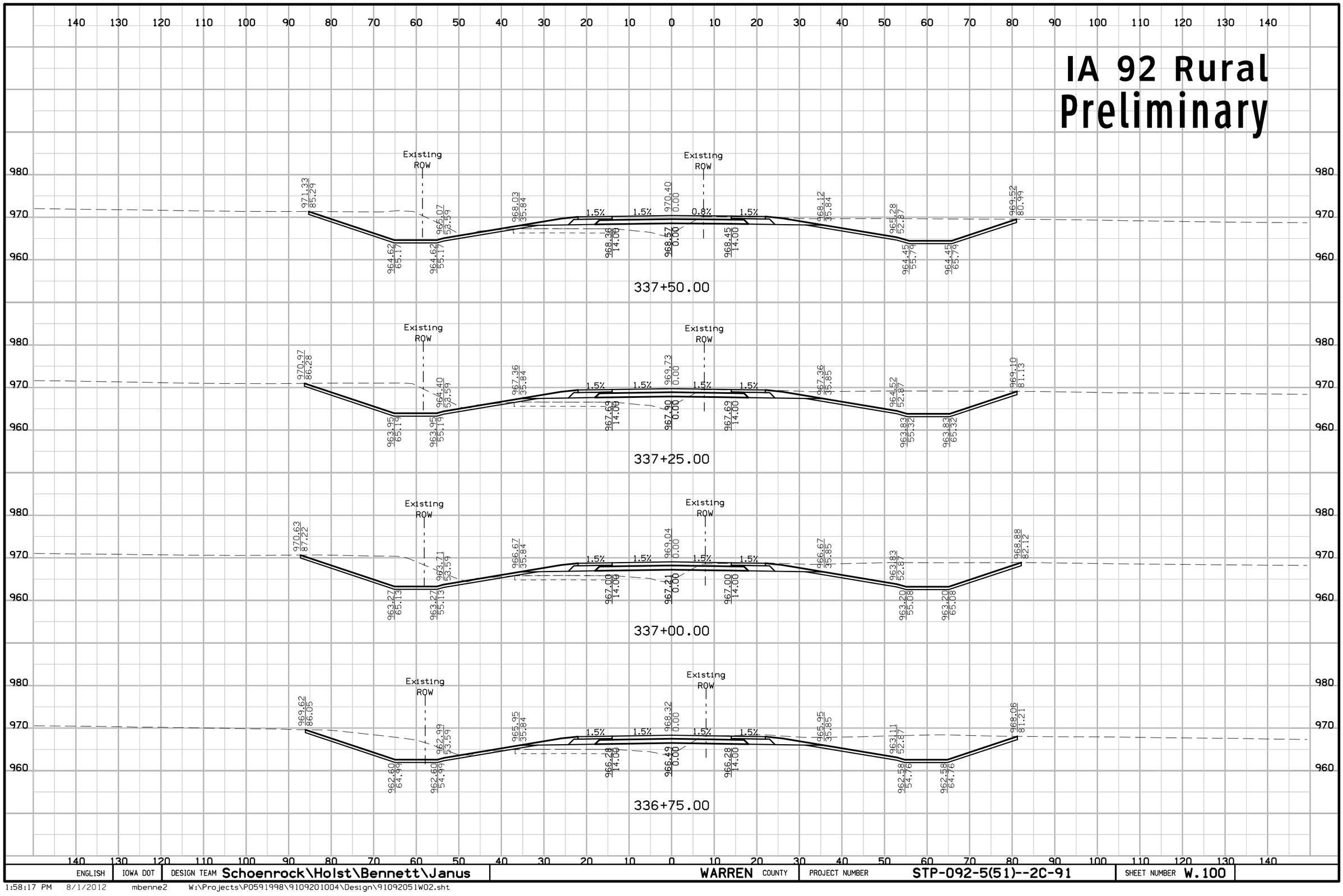
IA 92 Rural
Preliminary



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IA 92 Rural
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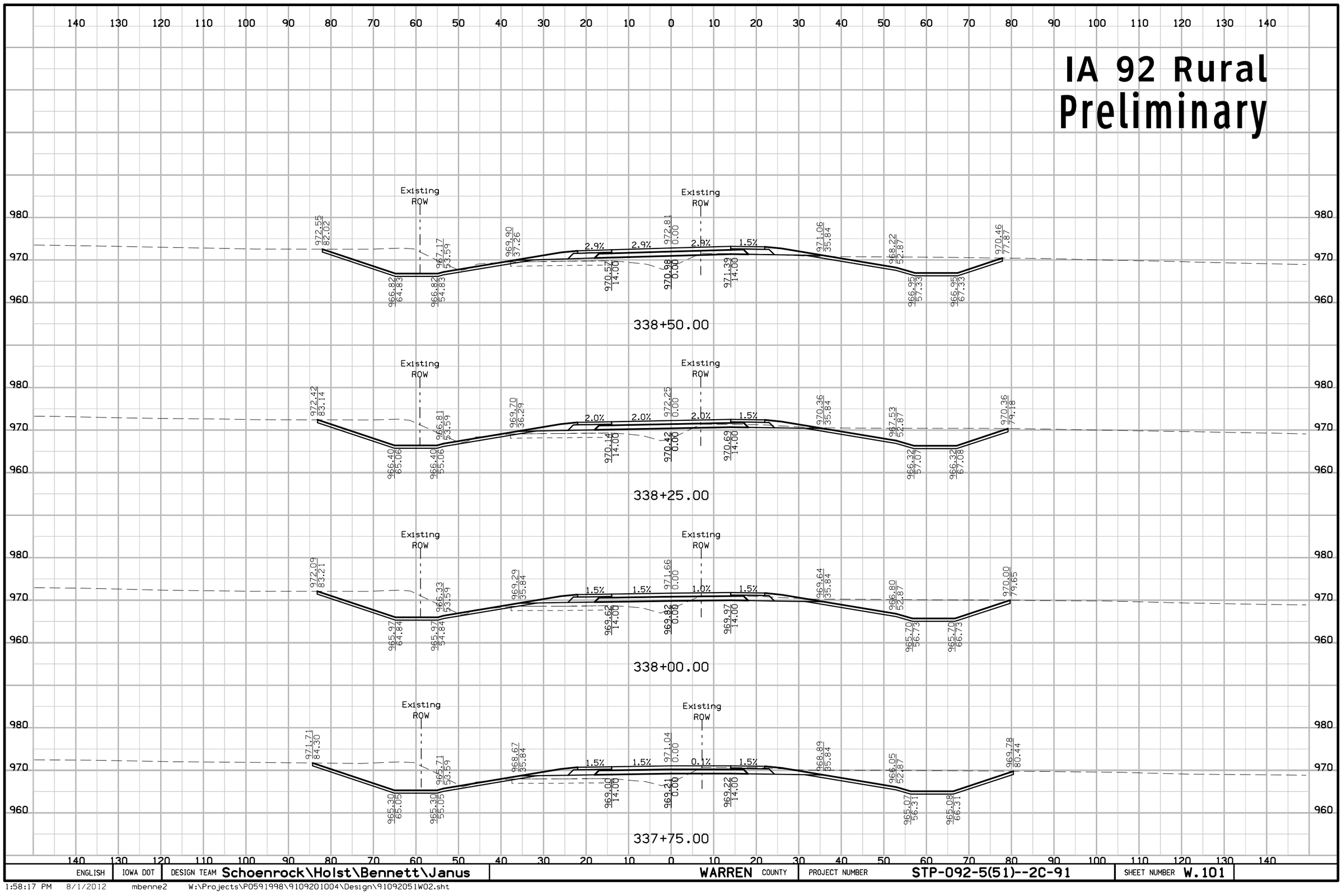

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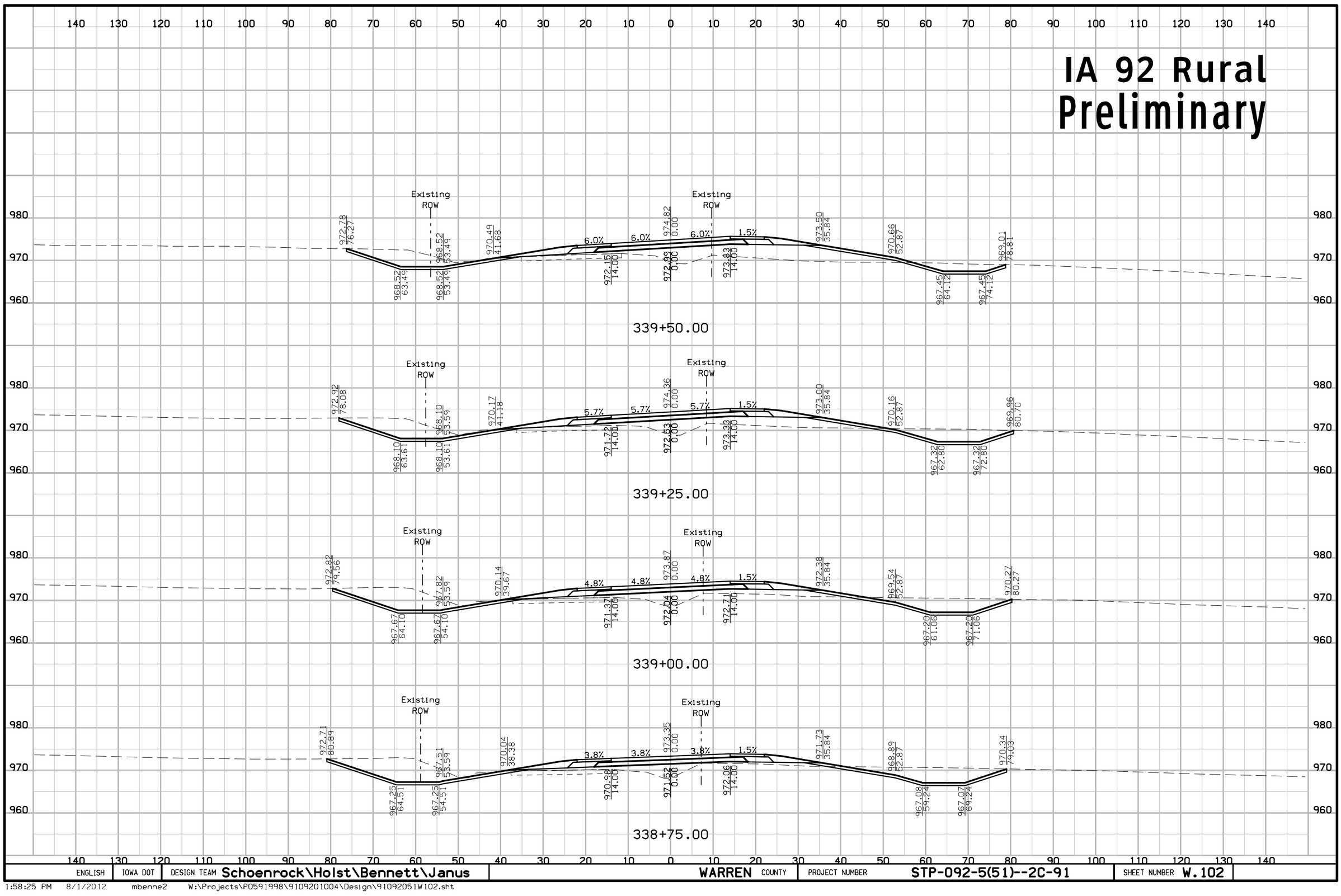
IA 92 Rural
Preliminary



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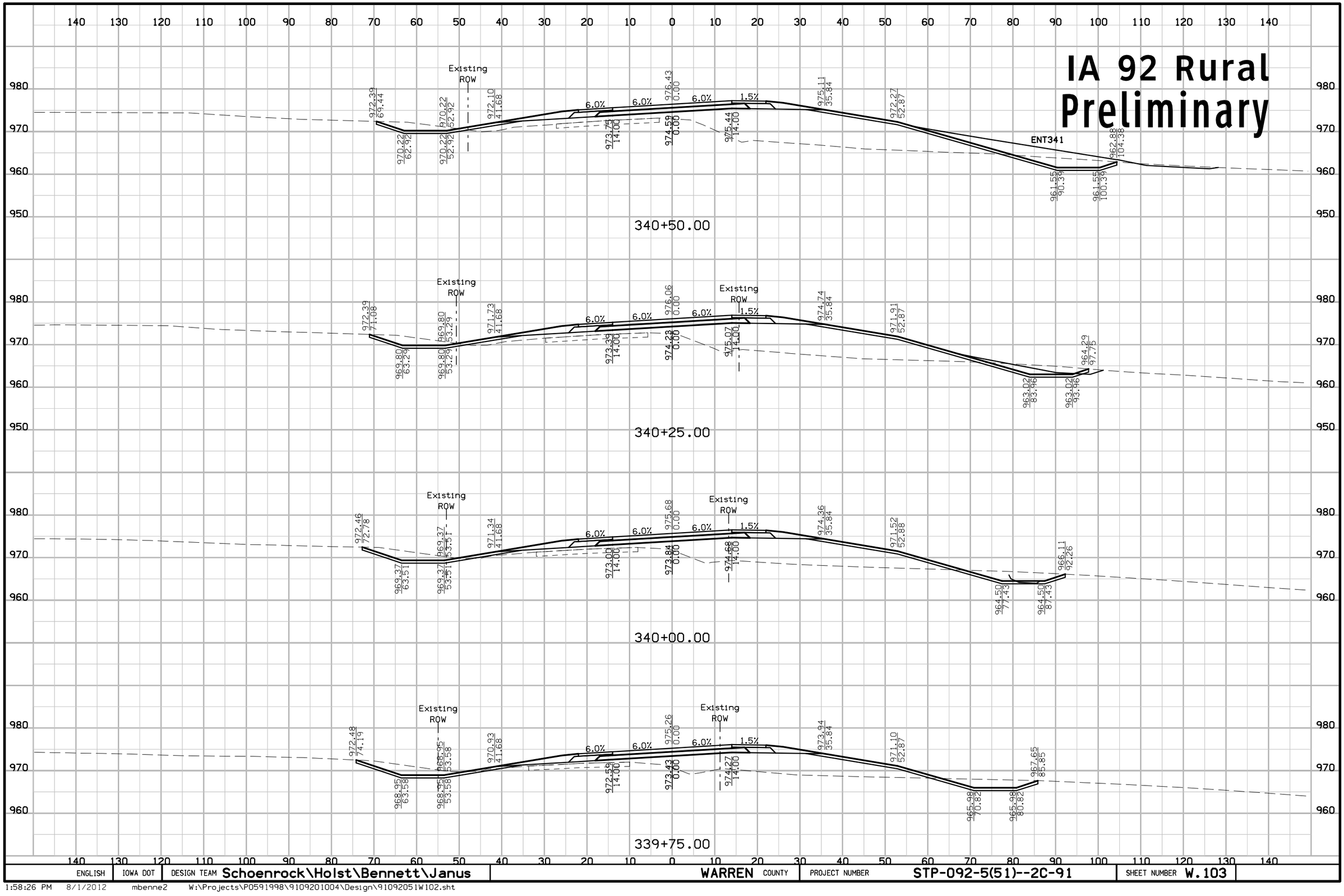
IA 92 Rural Preliminary



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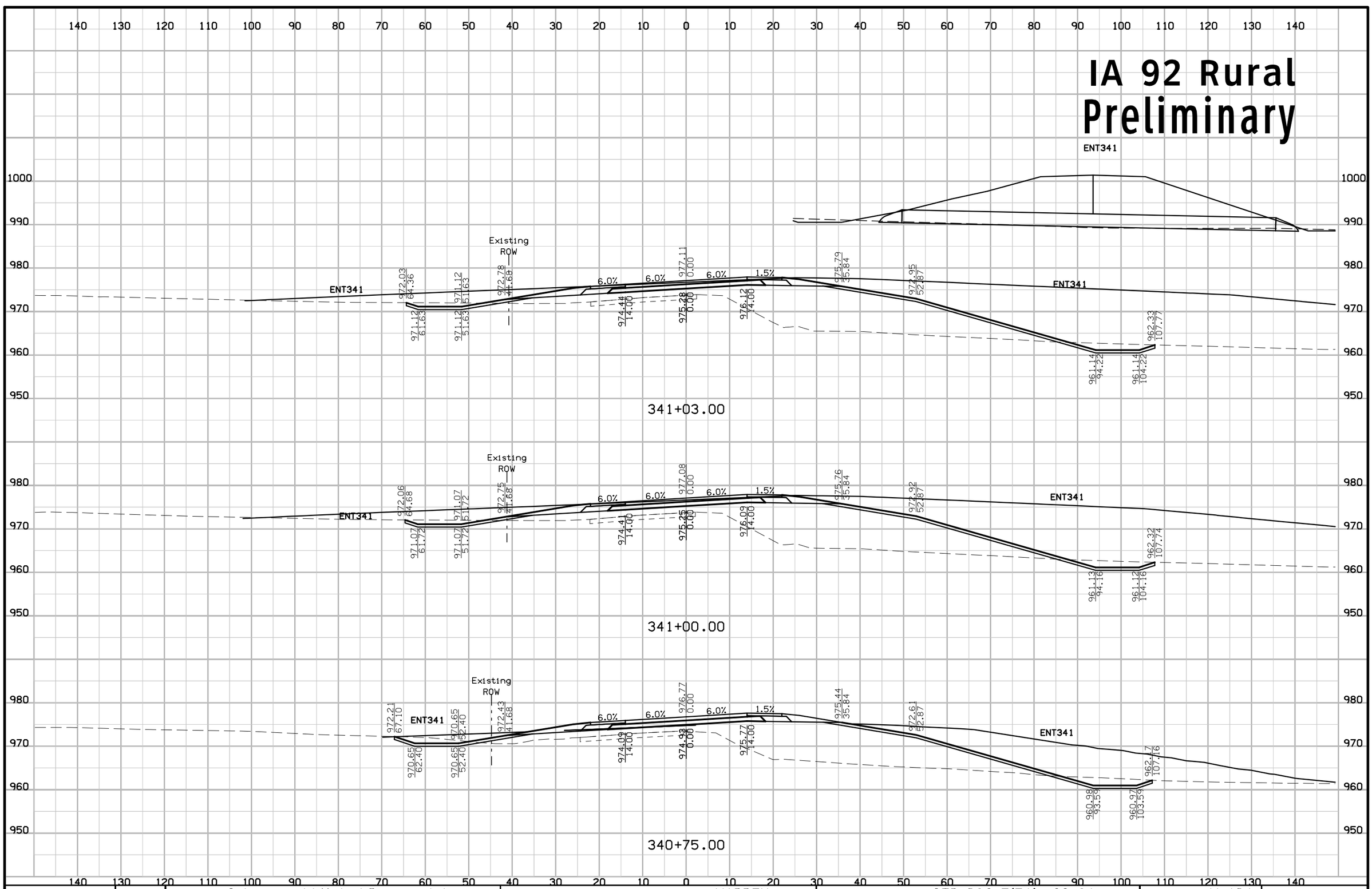
IA 92 Rural Preliminary



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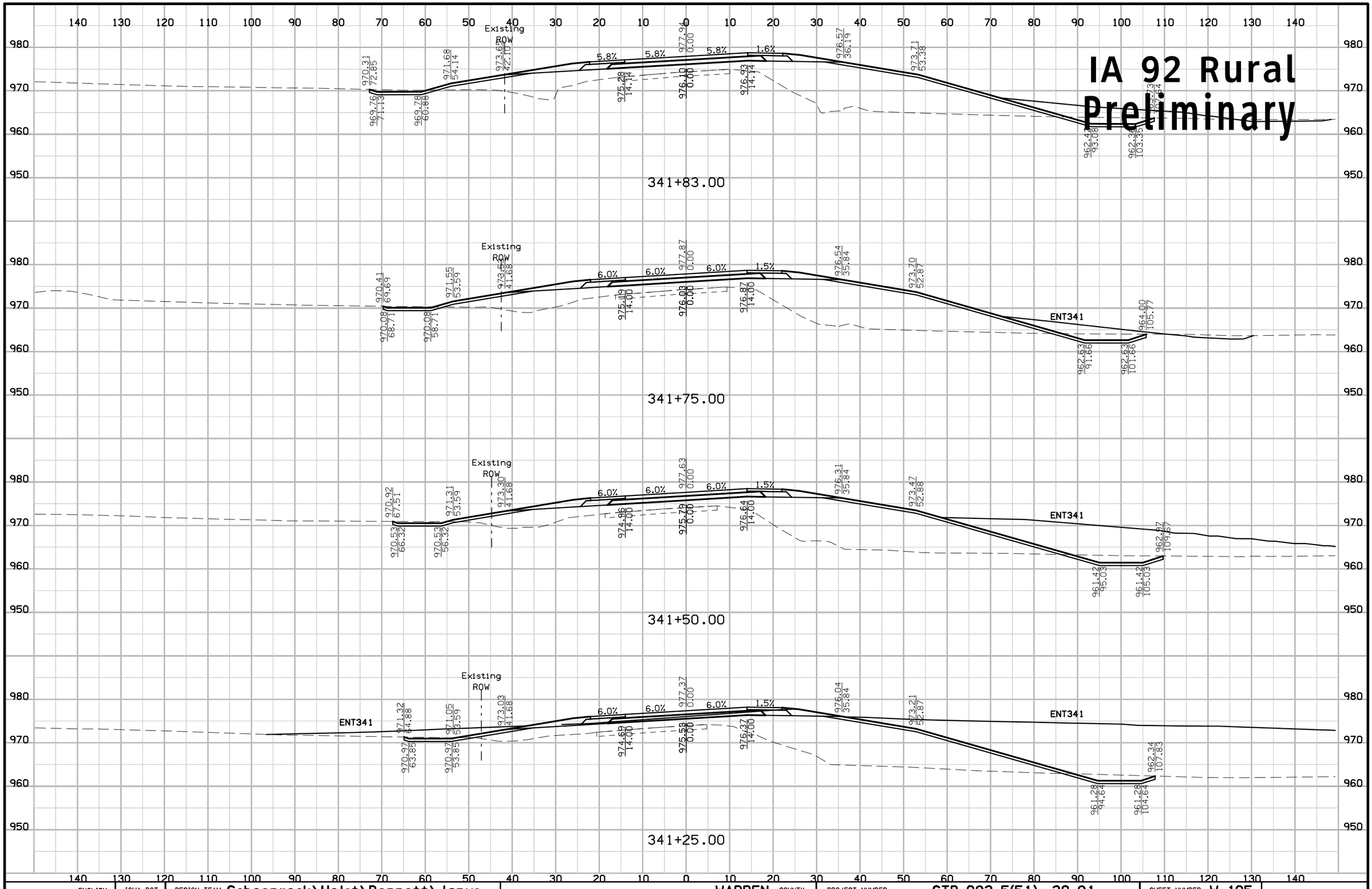
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.105

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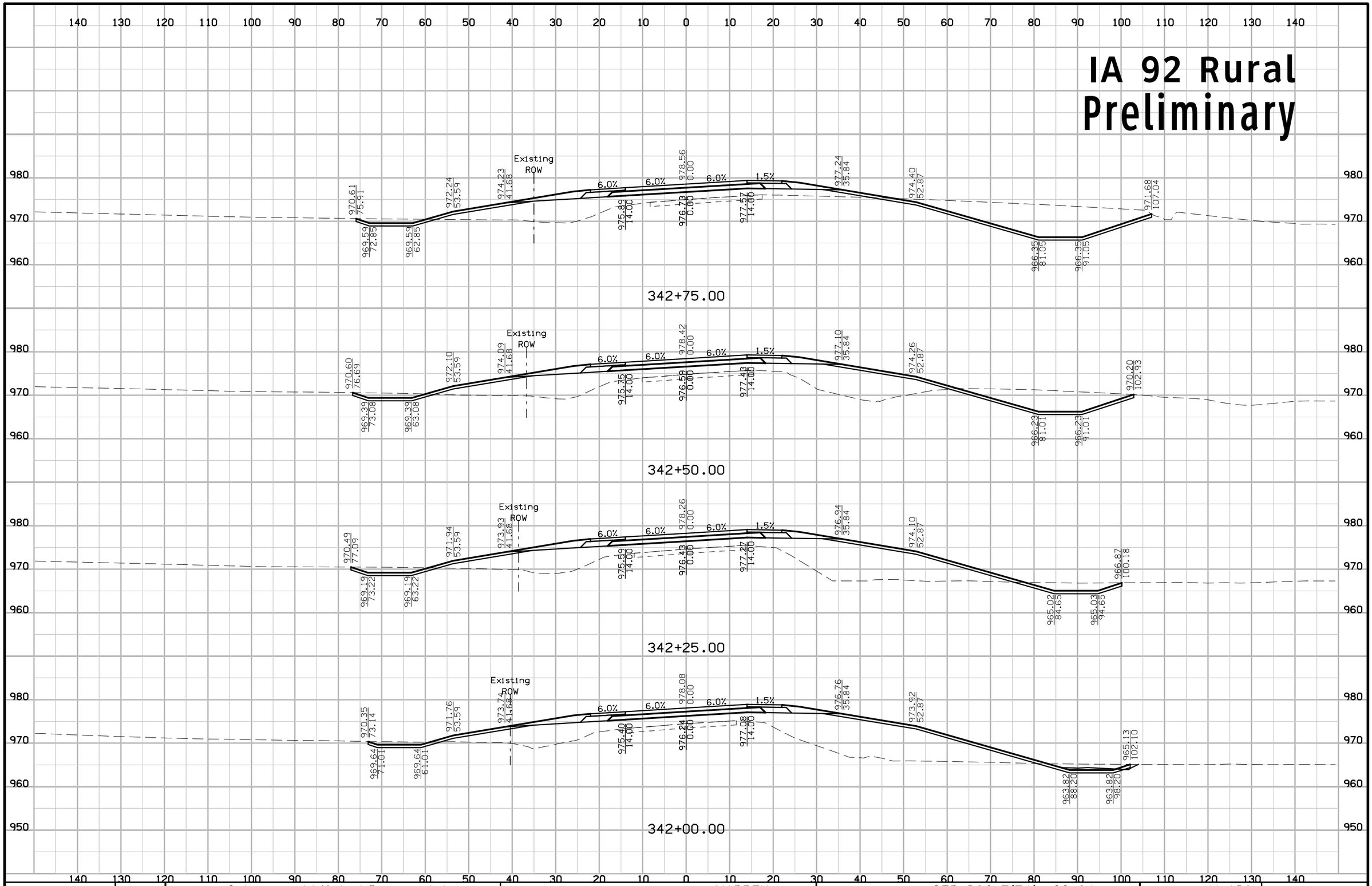
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.106

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IA 92 Rural
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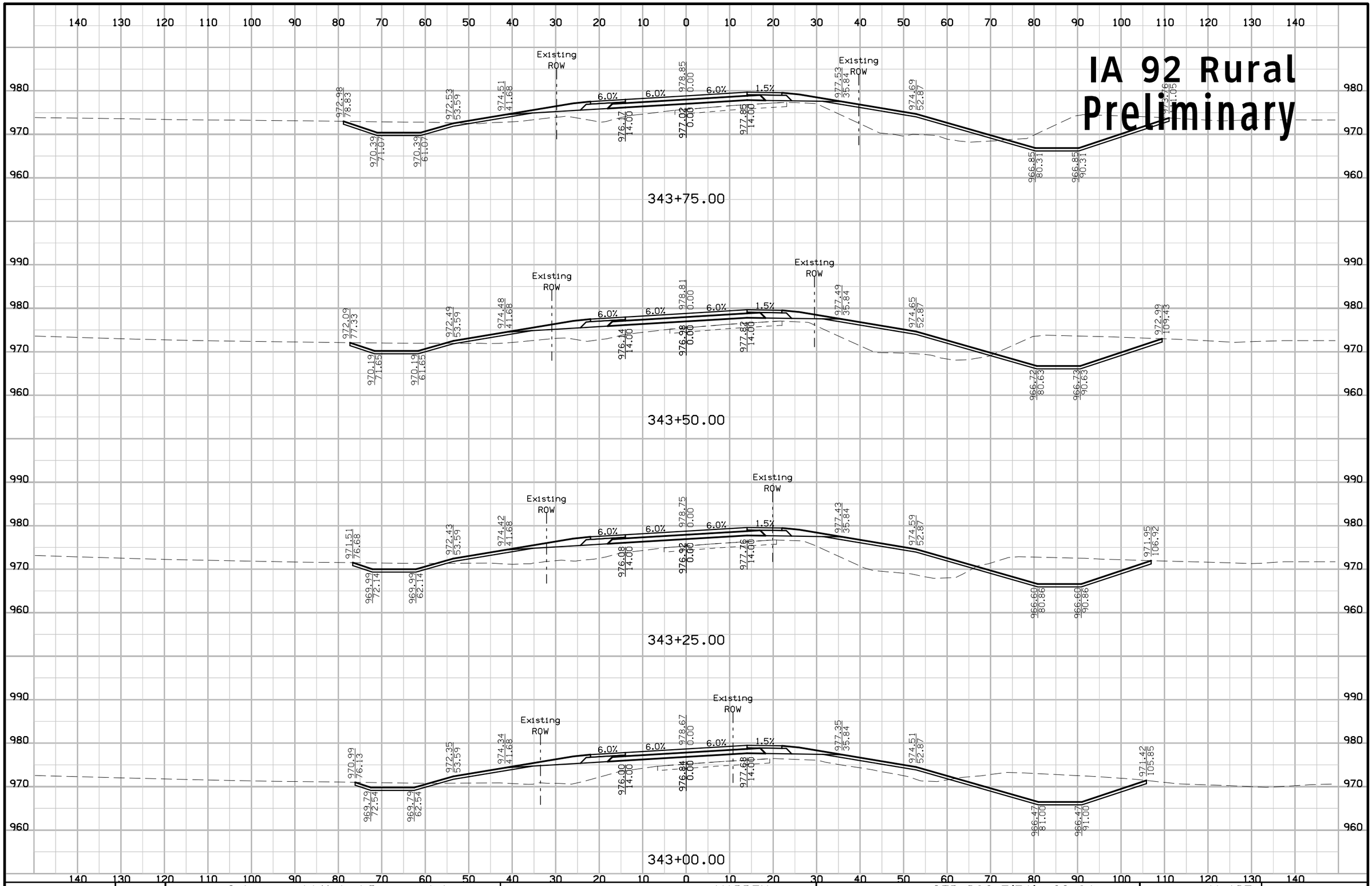

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.107

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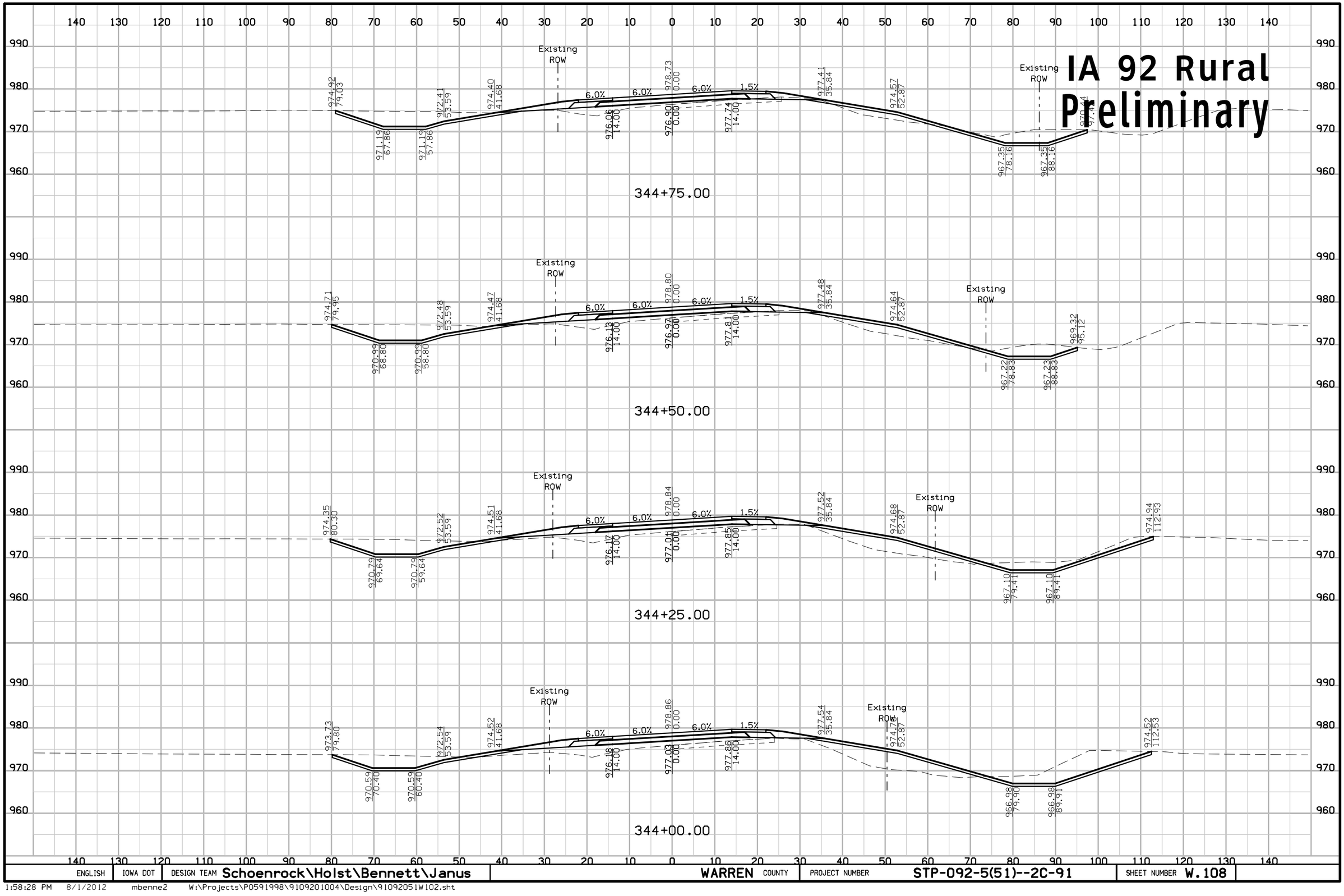
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.108

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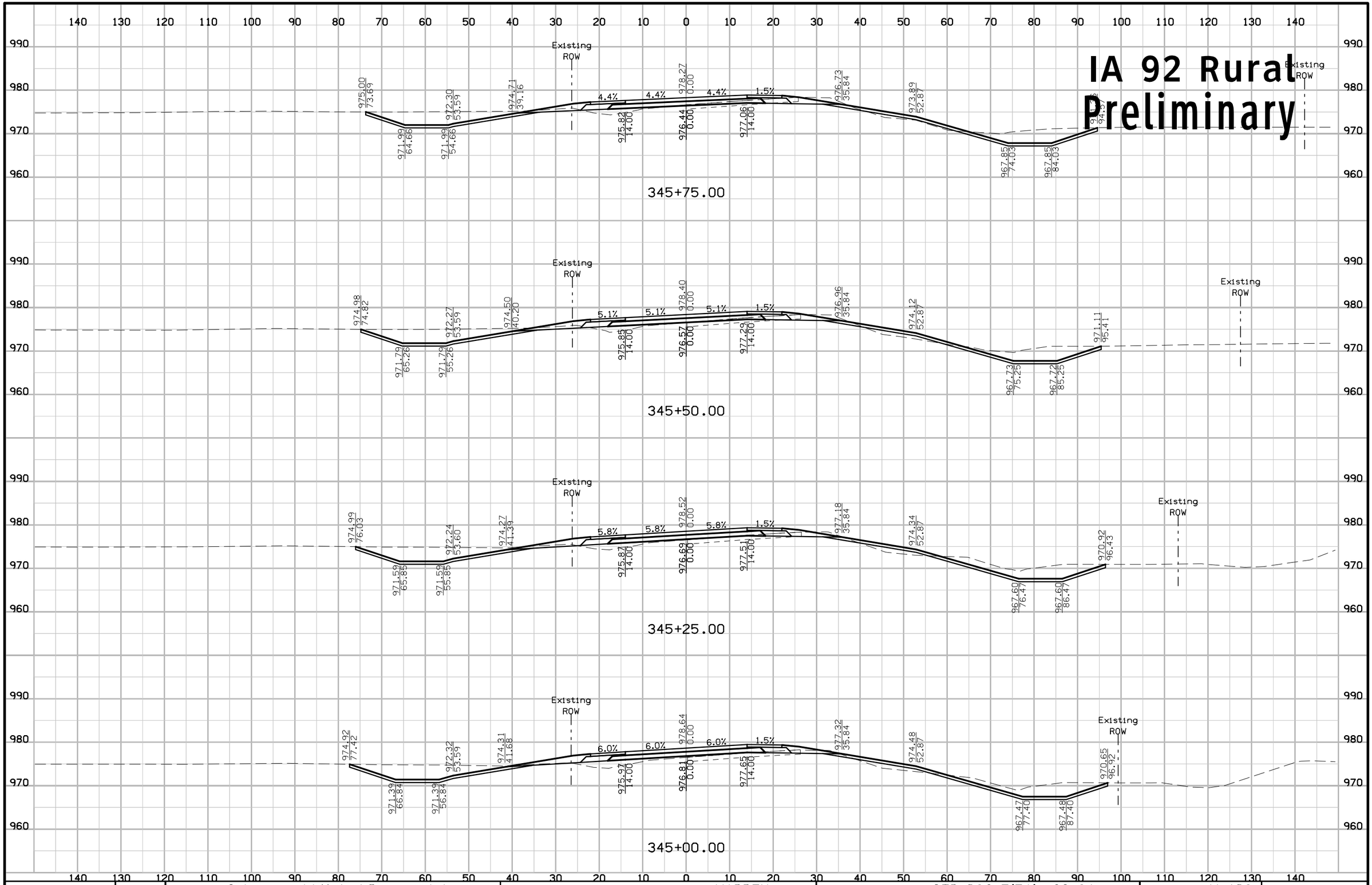
IA 92 Rural Preliminary



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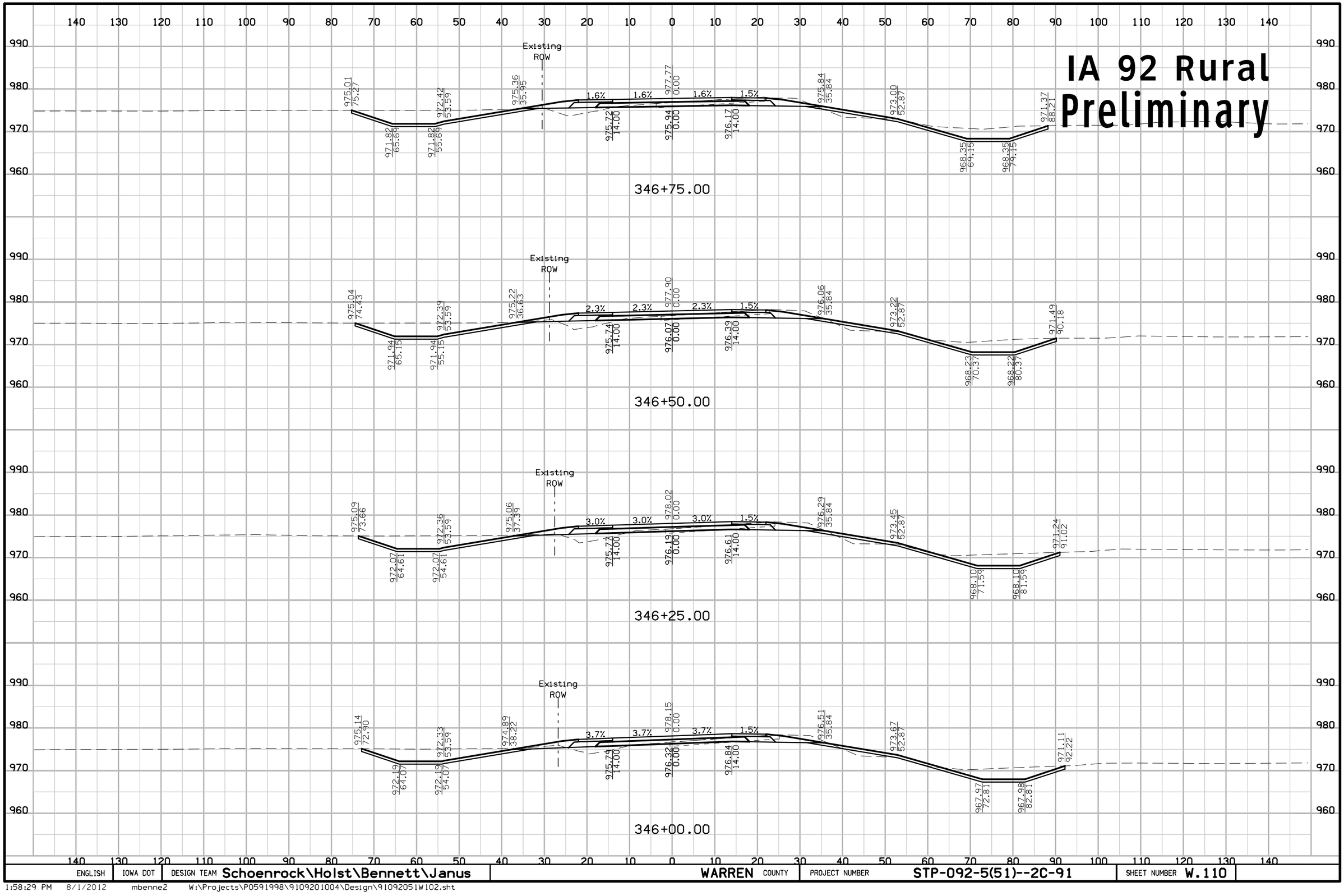
IA 92 Rural
Preliminary



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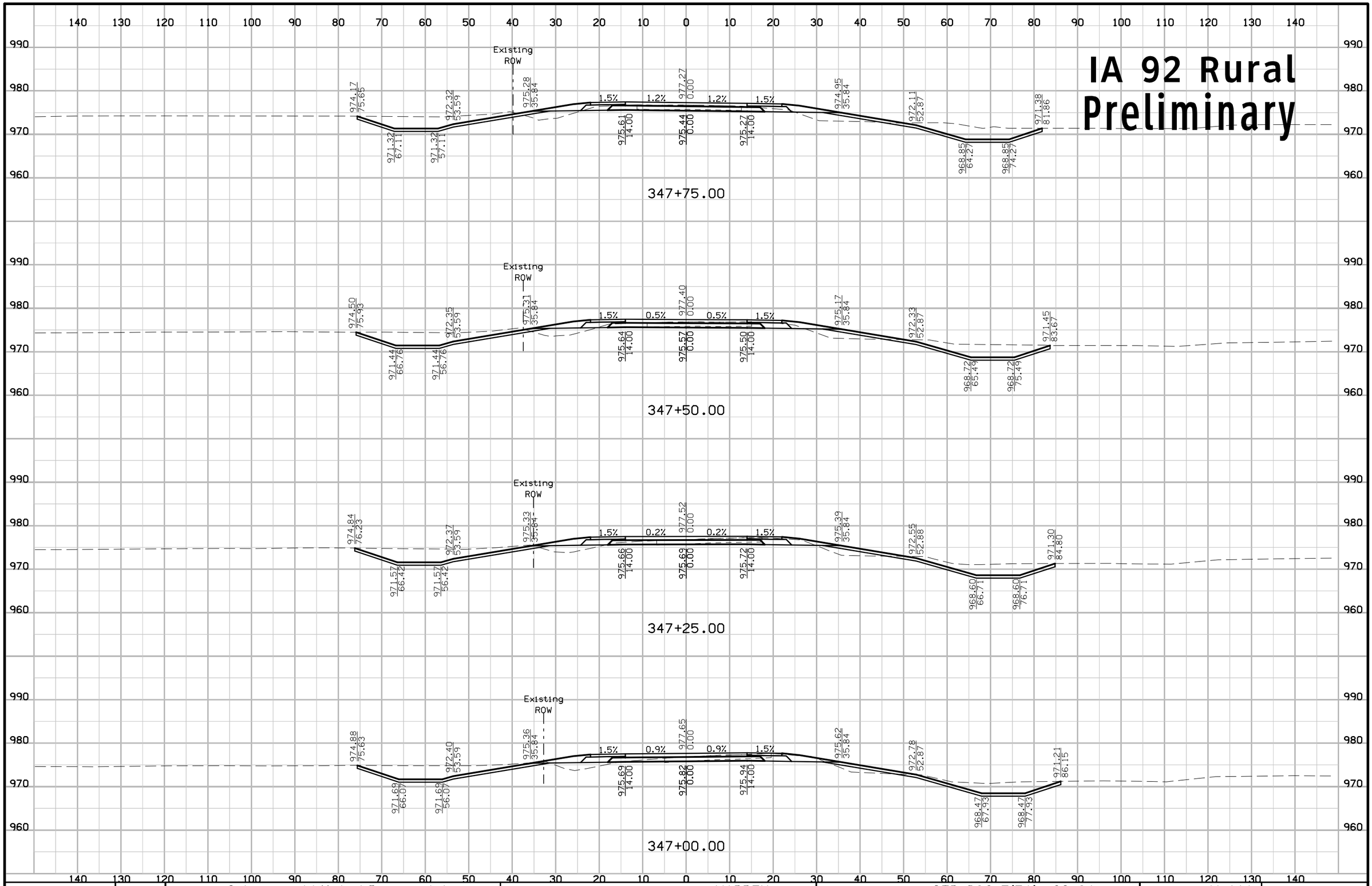
IA 92 Rural Preliminary



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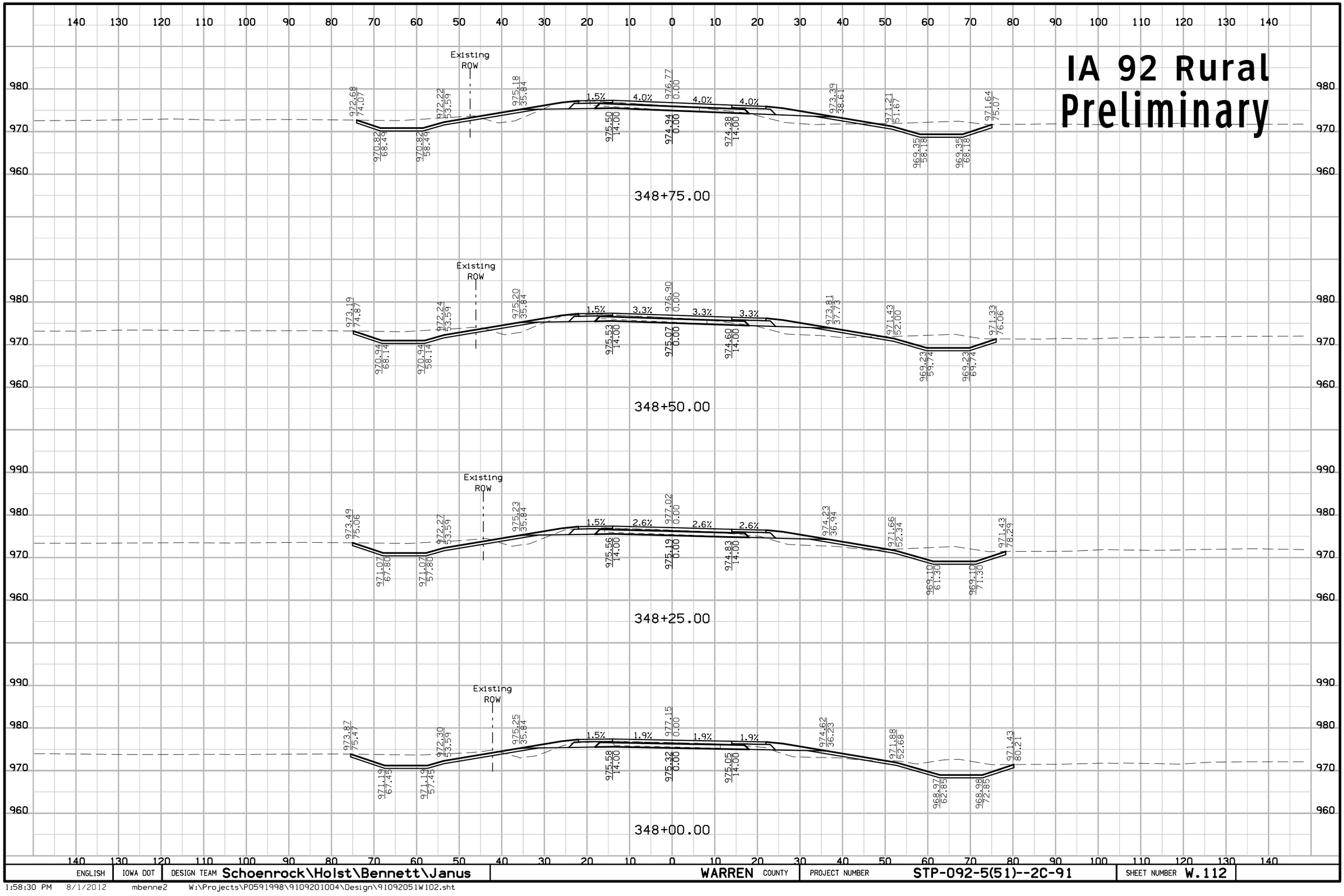
IA 92 Rural Preliminary



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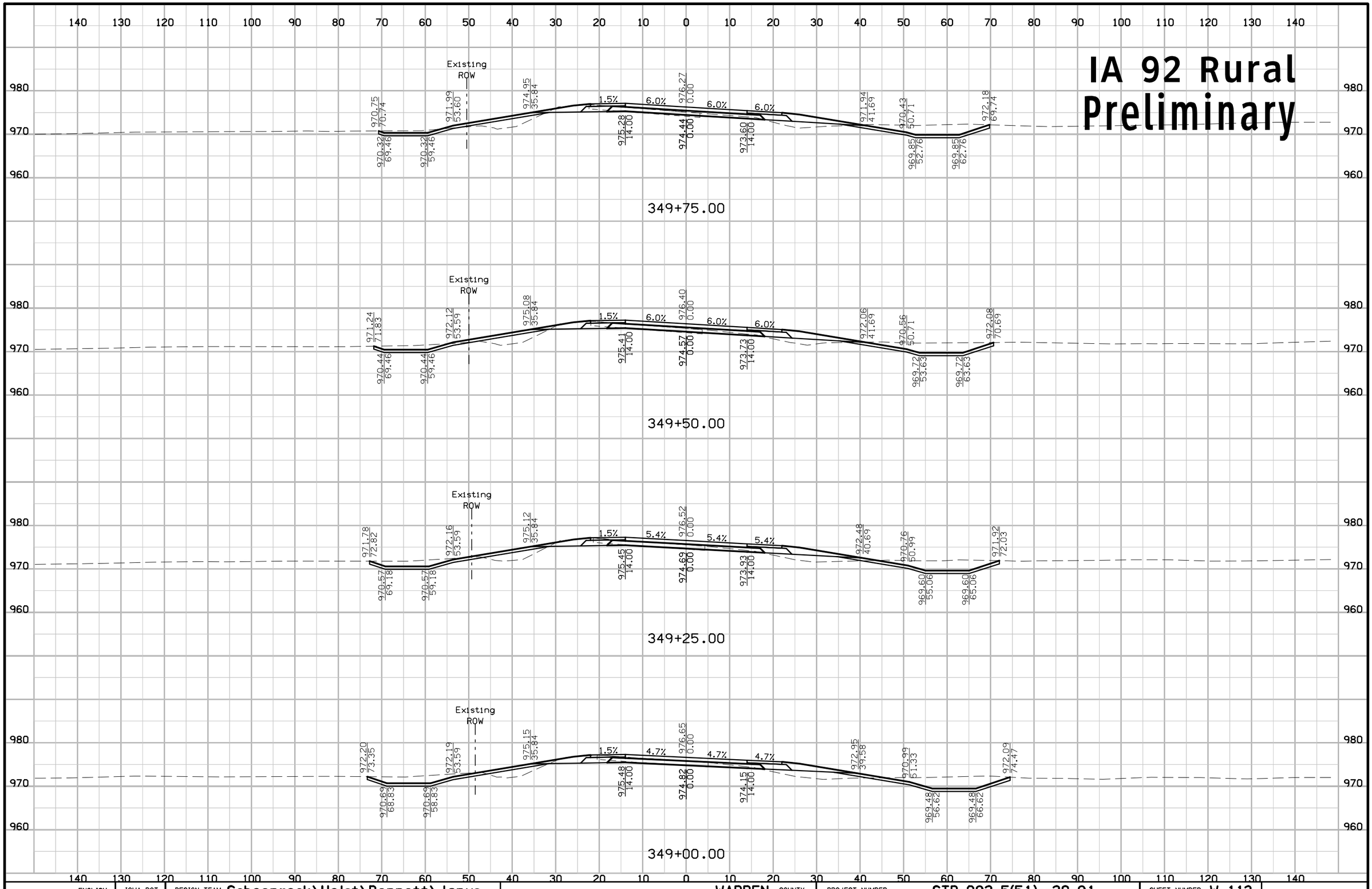
IA 92 Rural Preliminary



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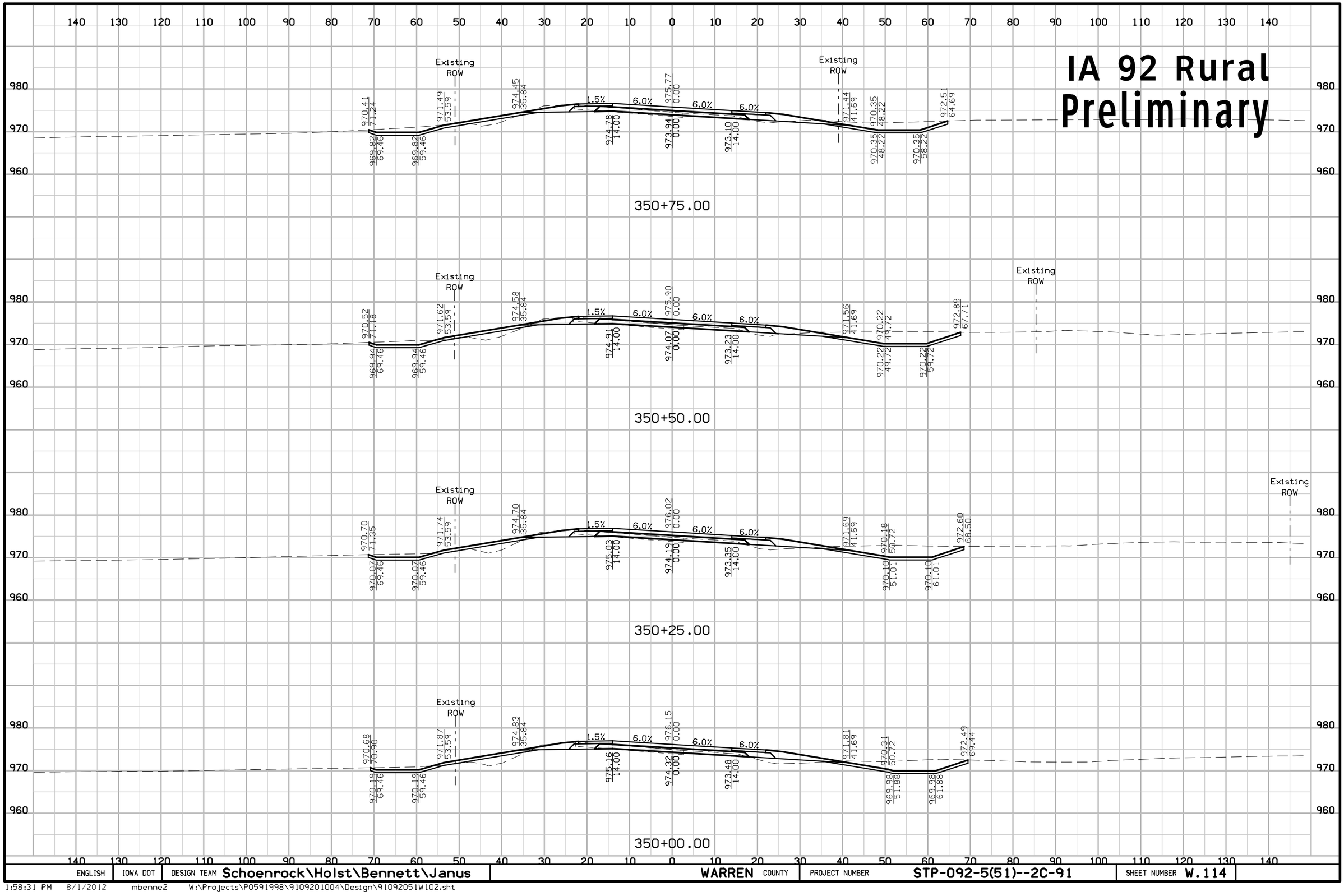
IA 92 Rural Preliminary



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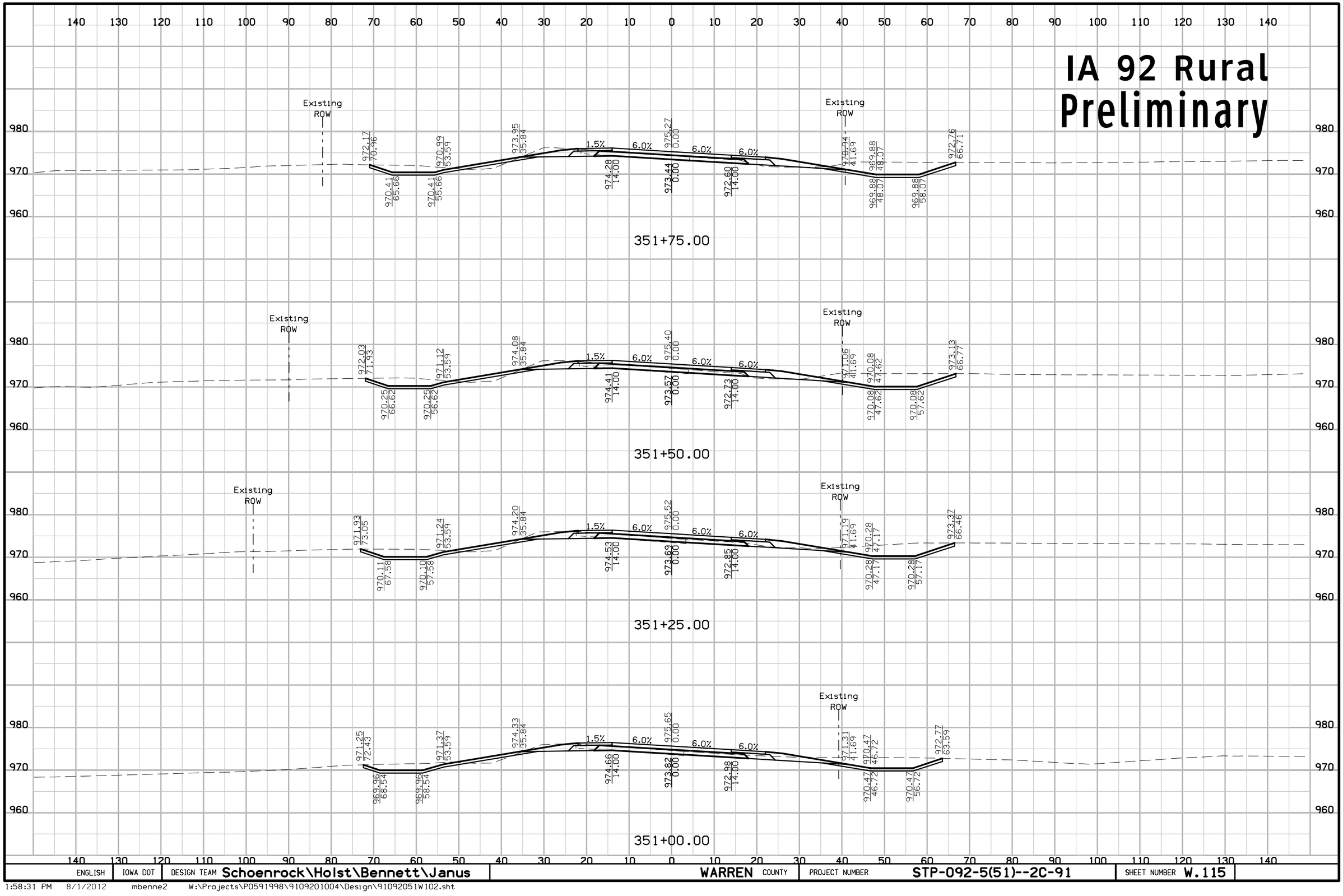
IA 92 Rural Preliminary



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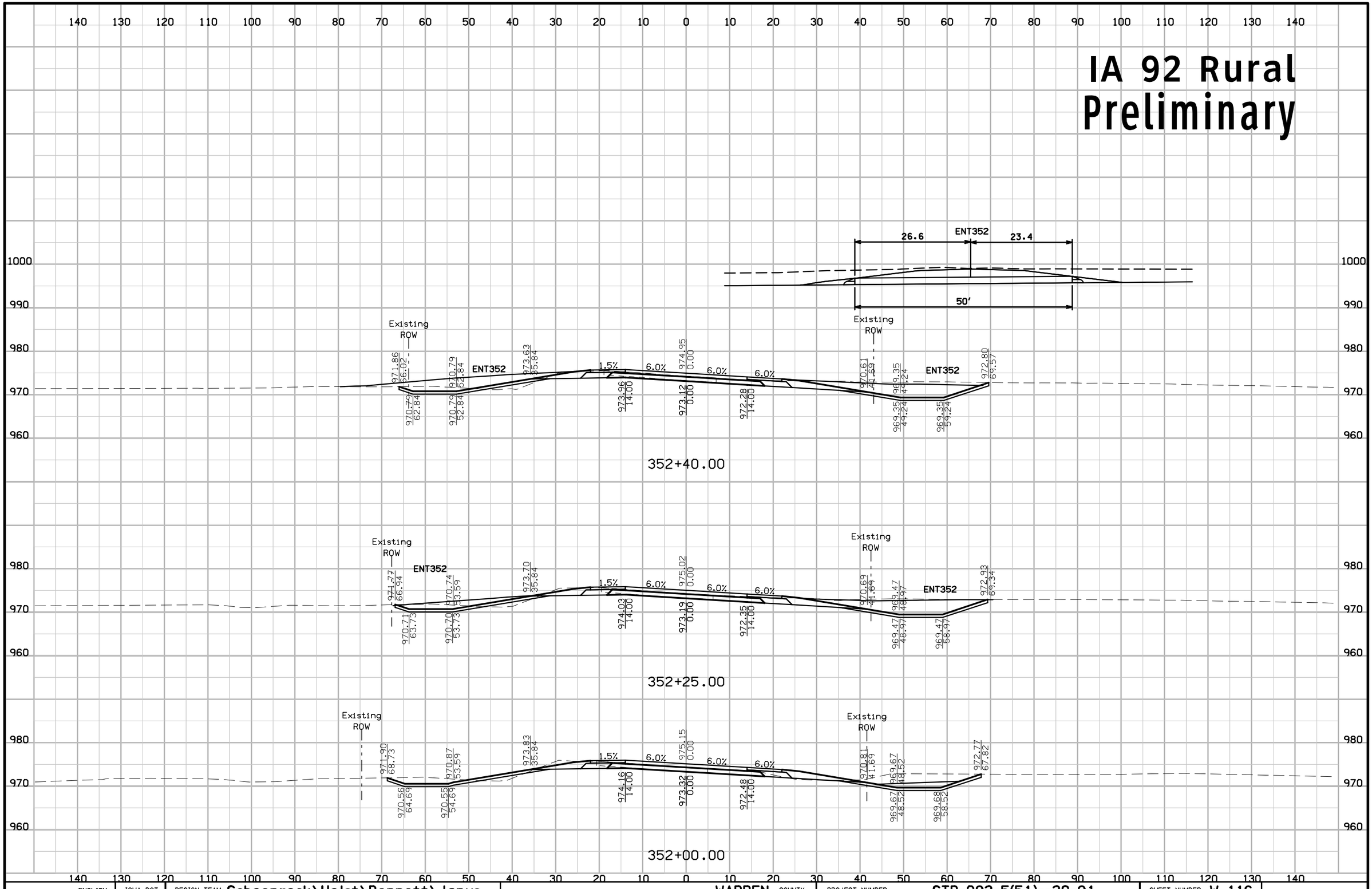
IA 92 Rural
Preliminary



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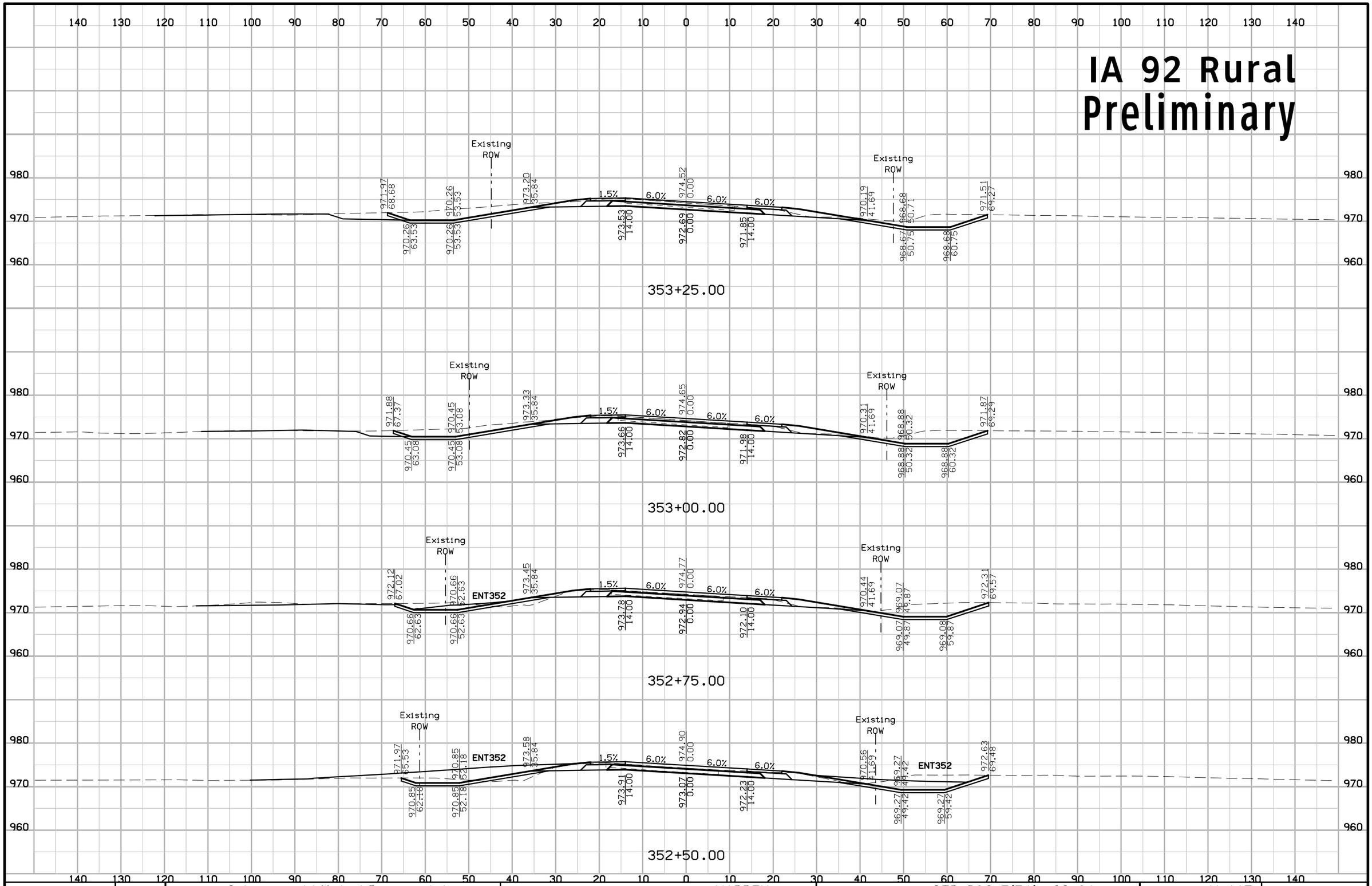
IA 92 Rural
Preliminary



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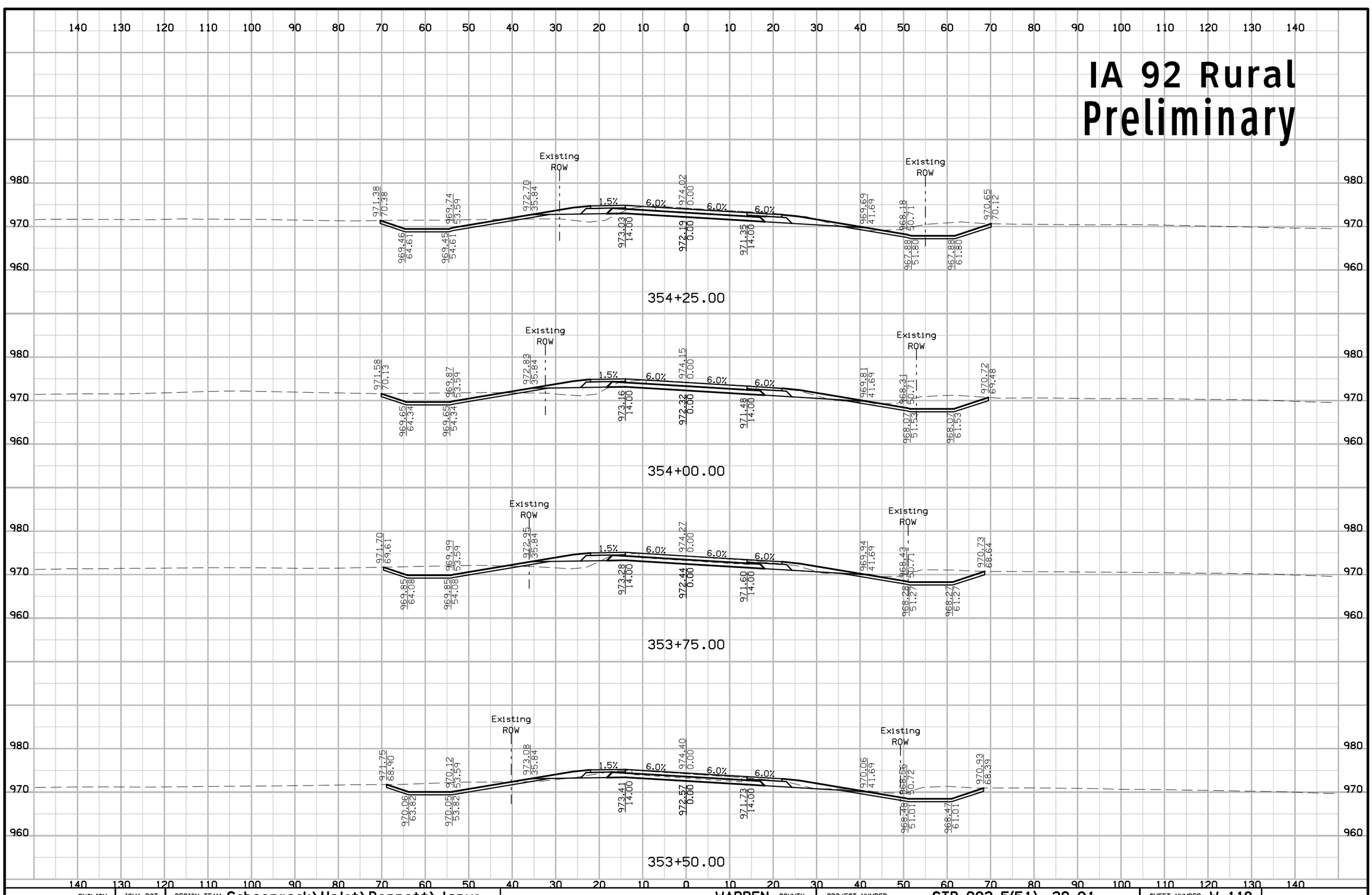
IA 92 Rural
Preliminary



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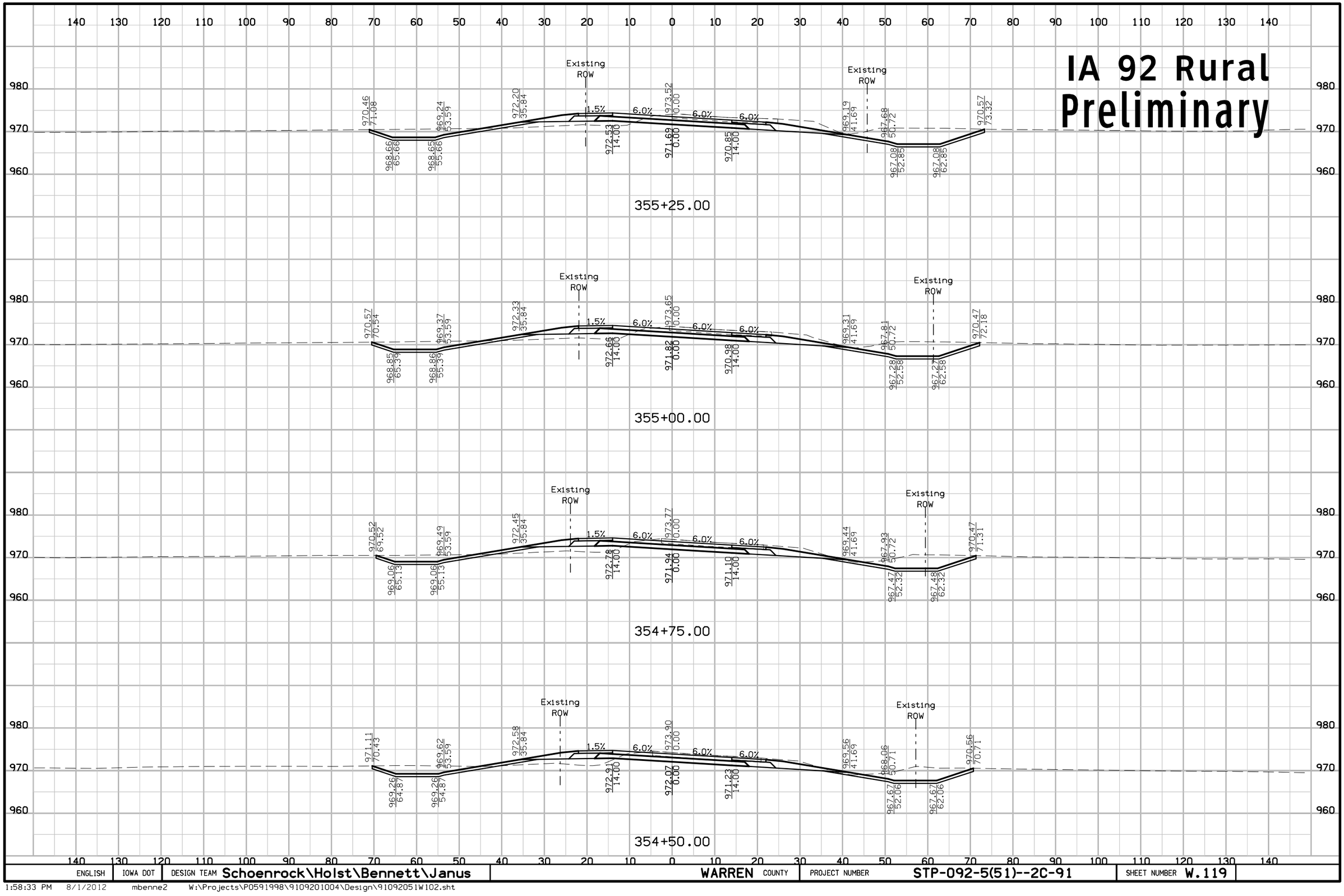
IA 92 Rural Preliminary



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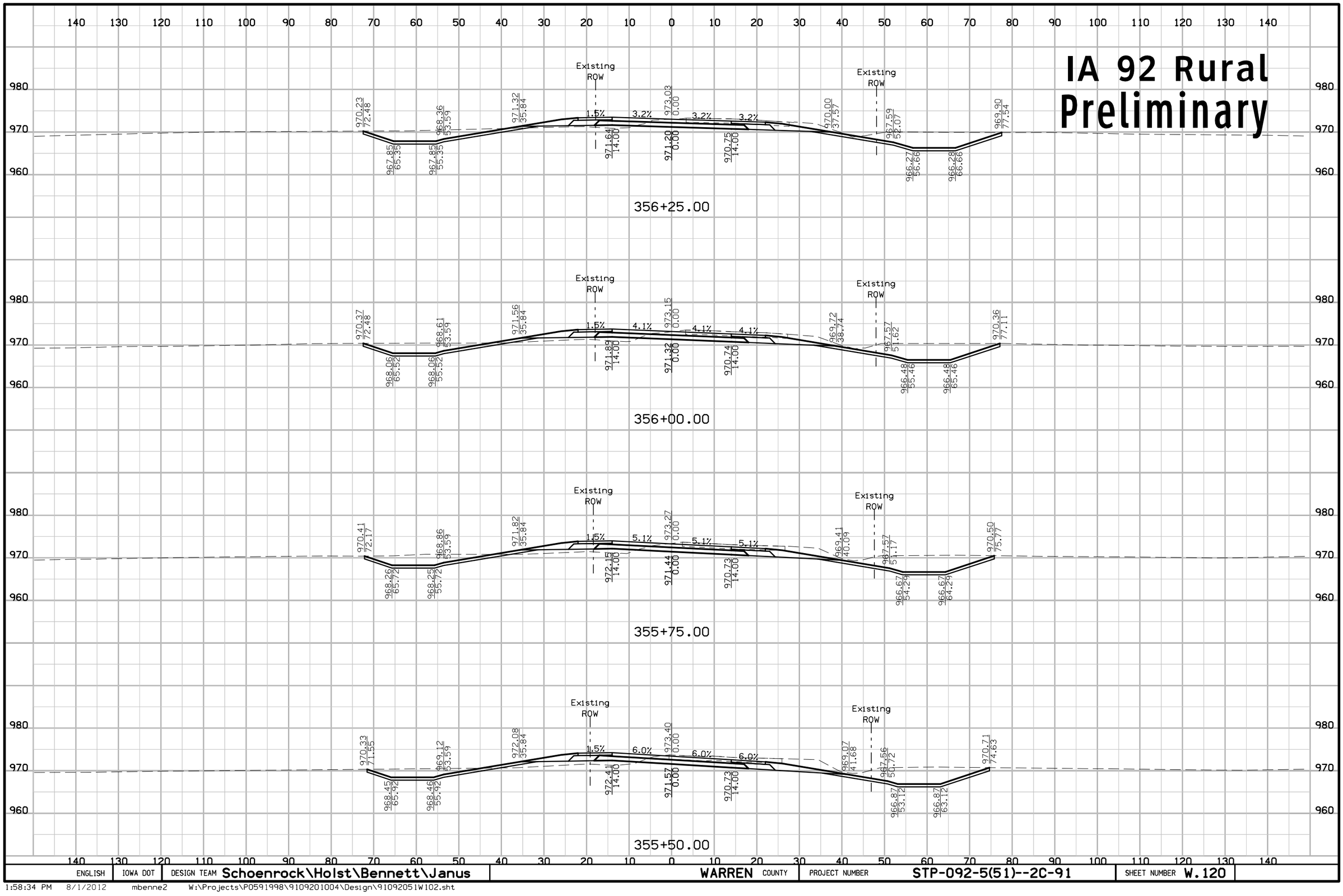
IA 92 Rural Preliminary



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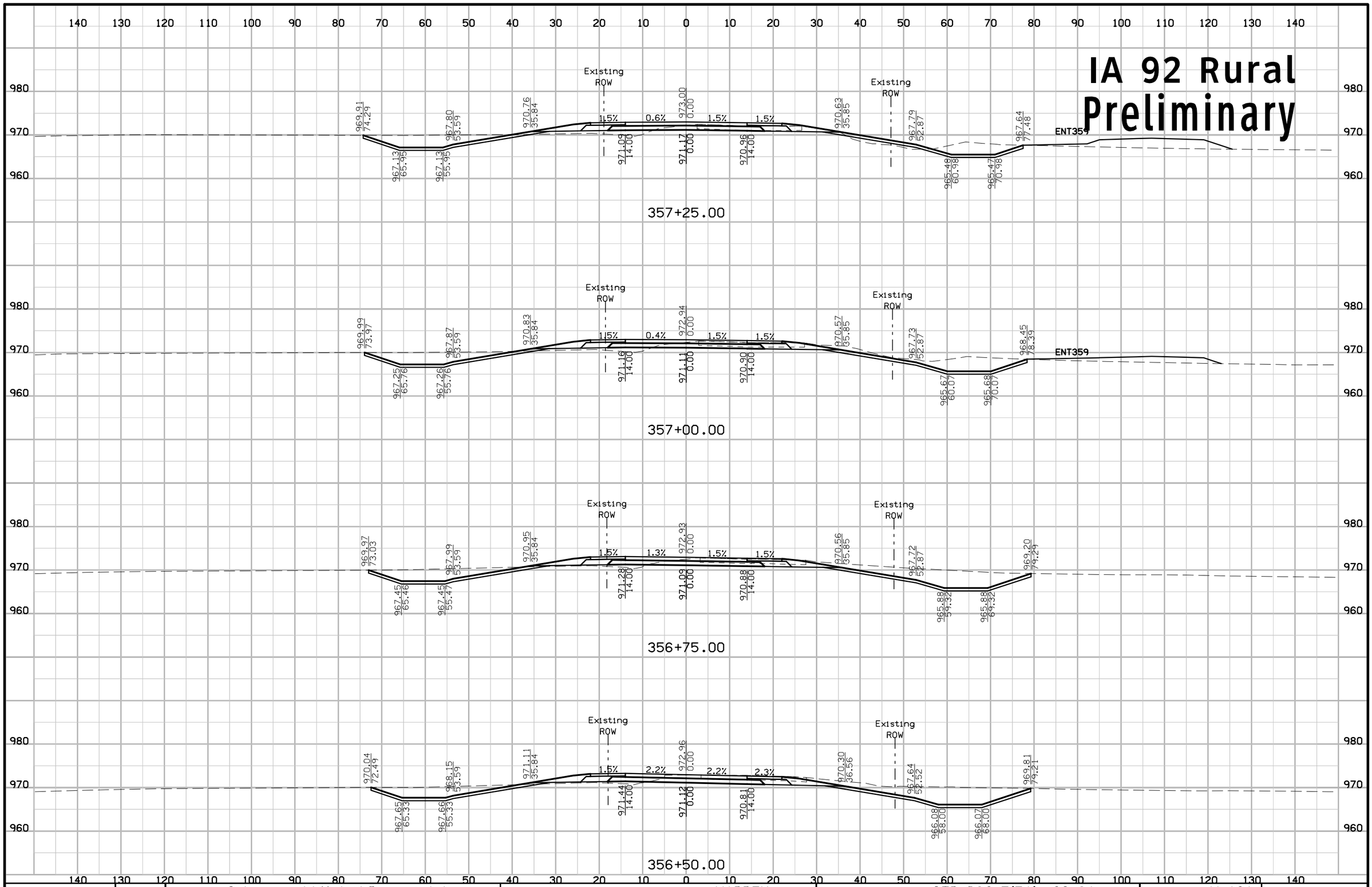
IA 92 Rural Preliminary



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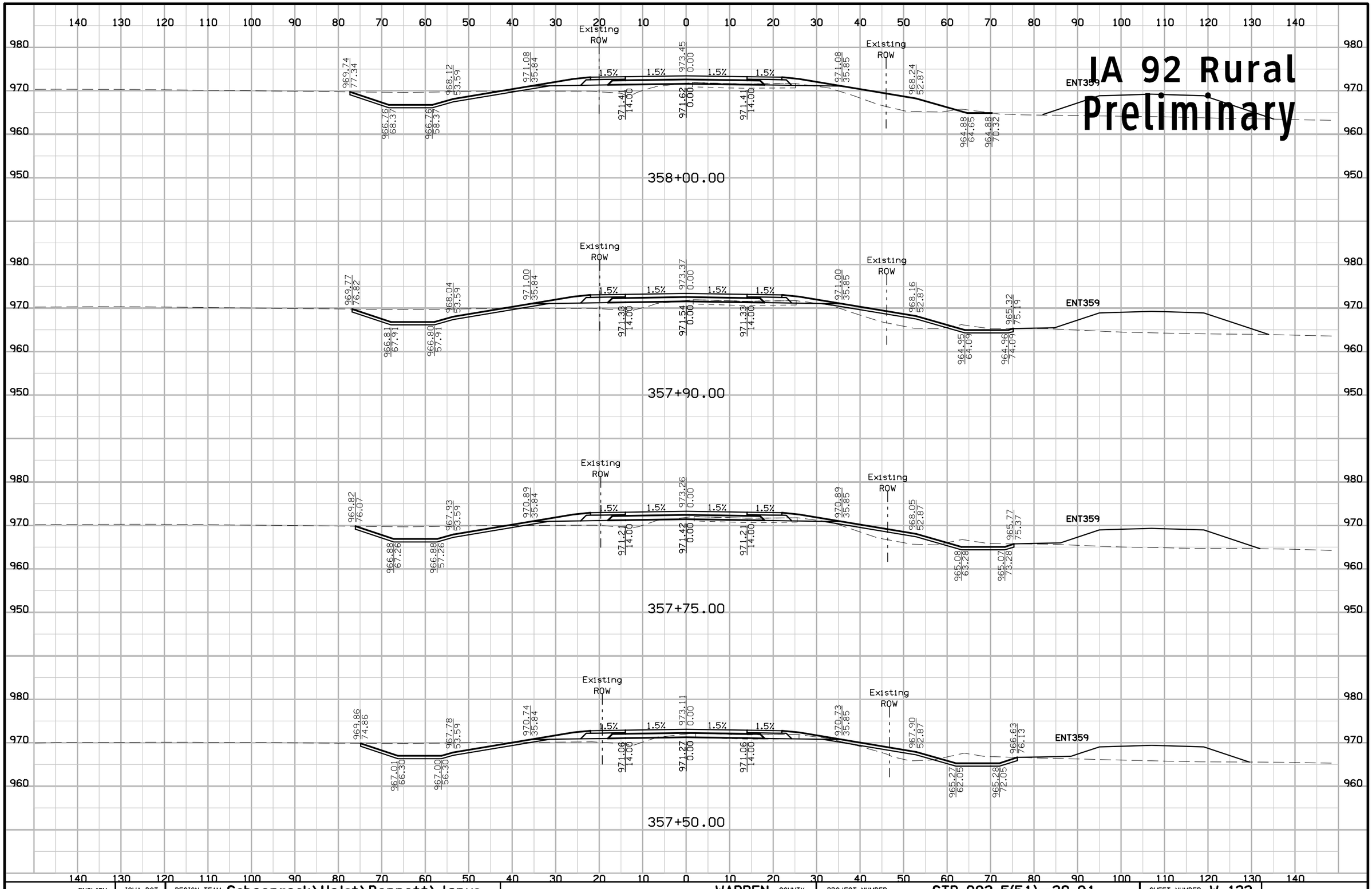
IA 92 Rural
Preliminary



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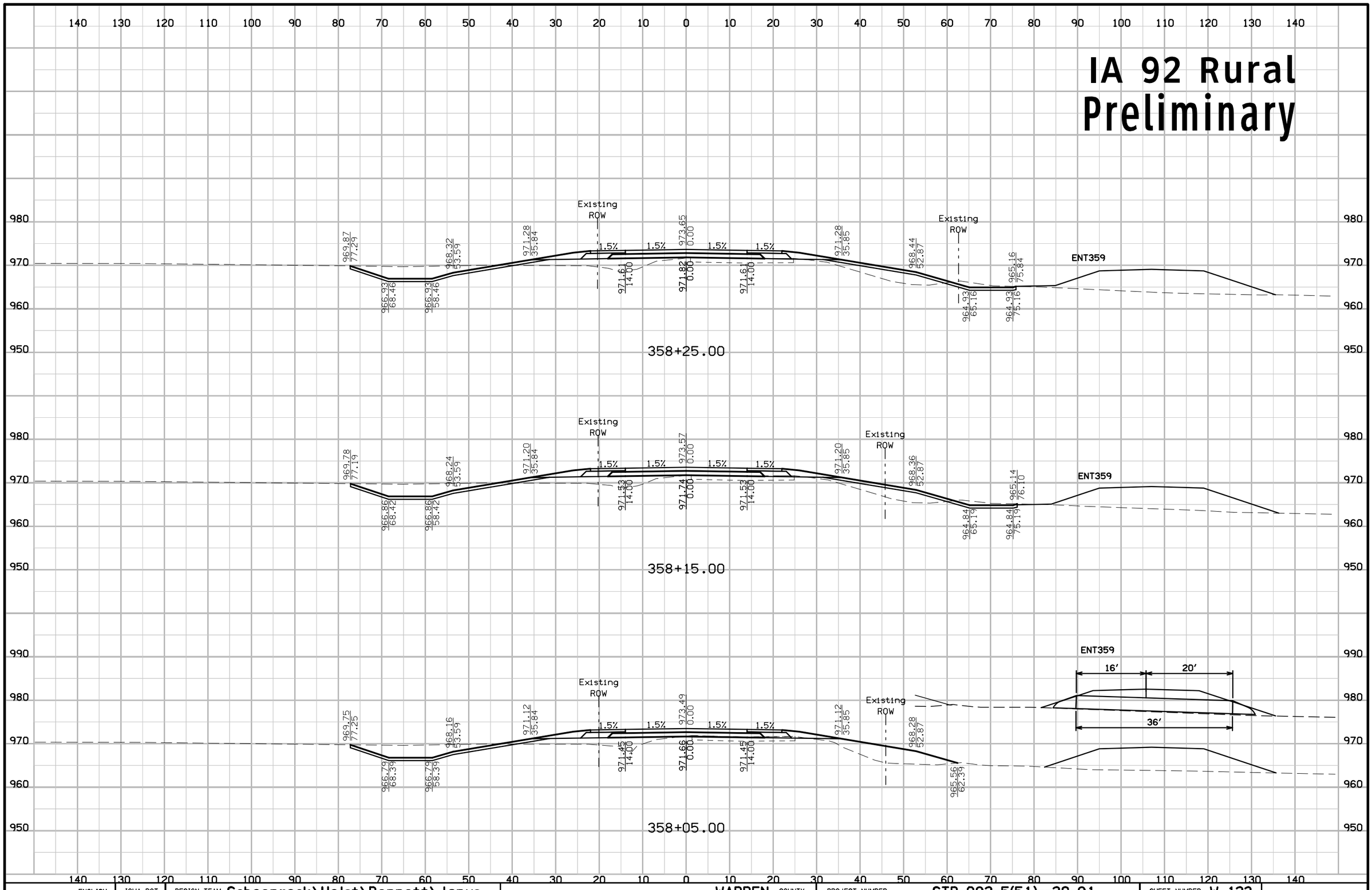
IA 92 Rural
Preliminary



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IA 92 Rural
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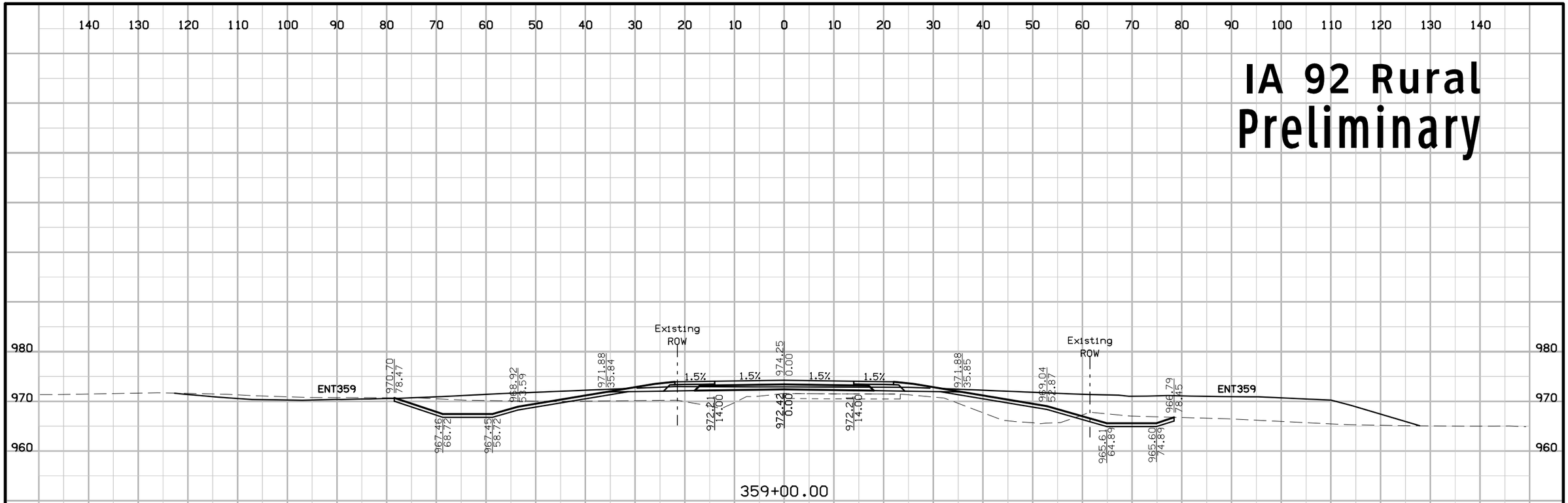

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IA 92 Rural
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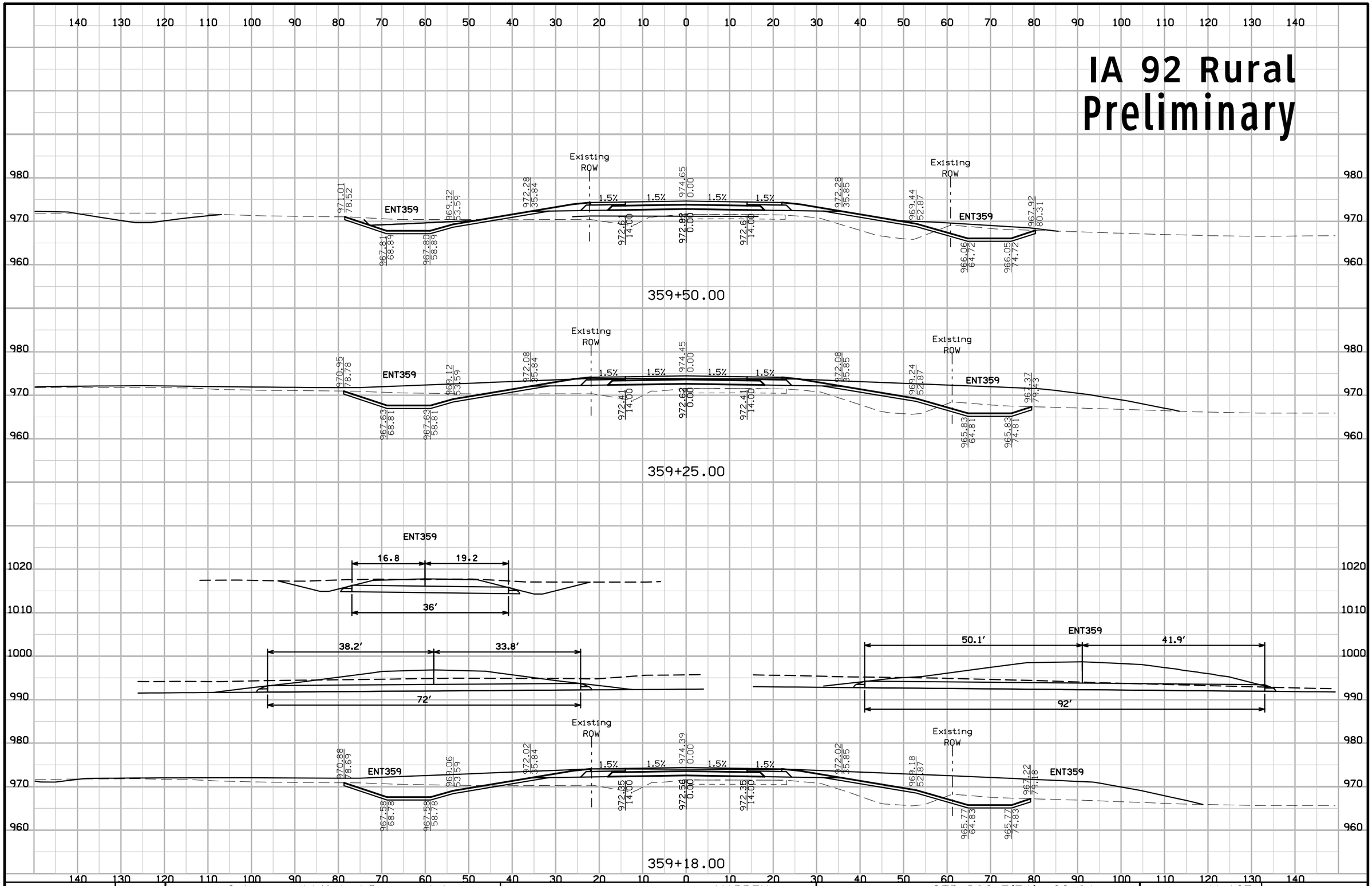

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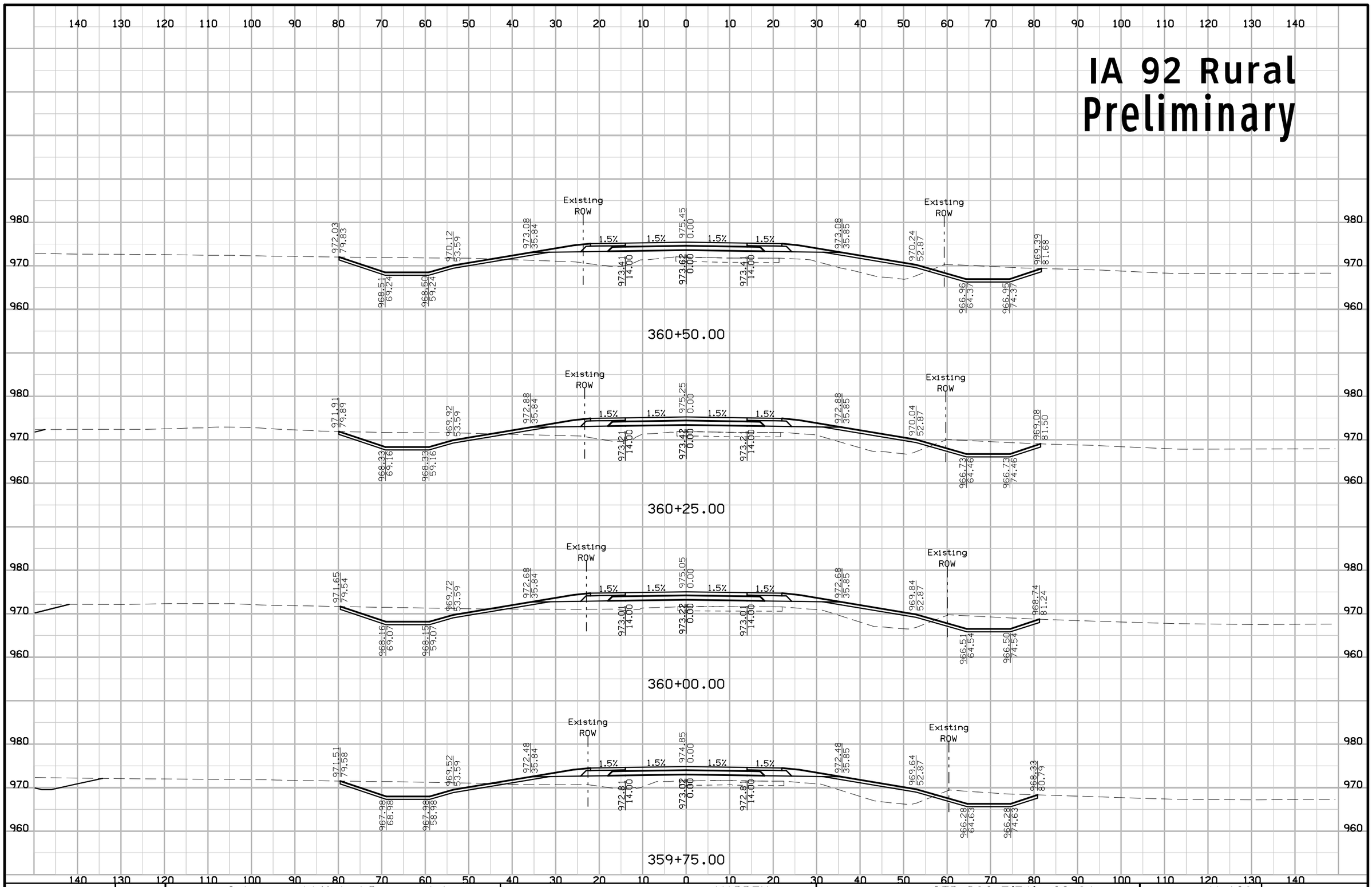
IA 92 Rural
Preliminary



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IA 92 Rural
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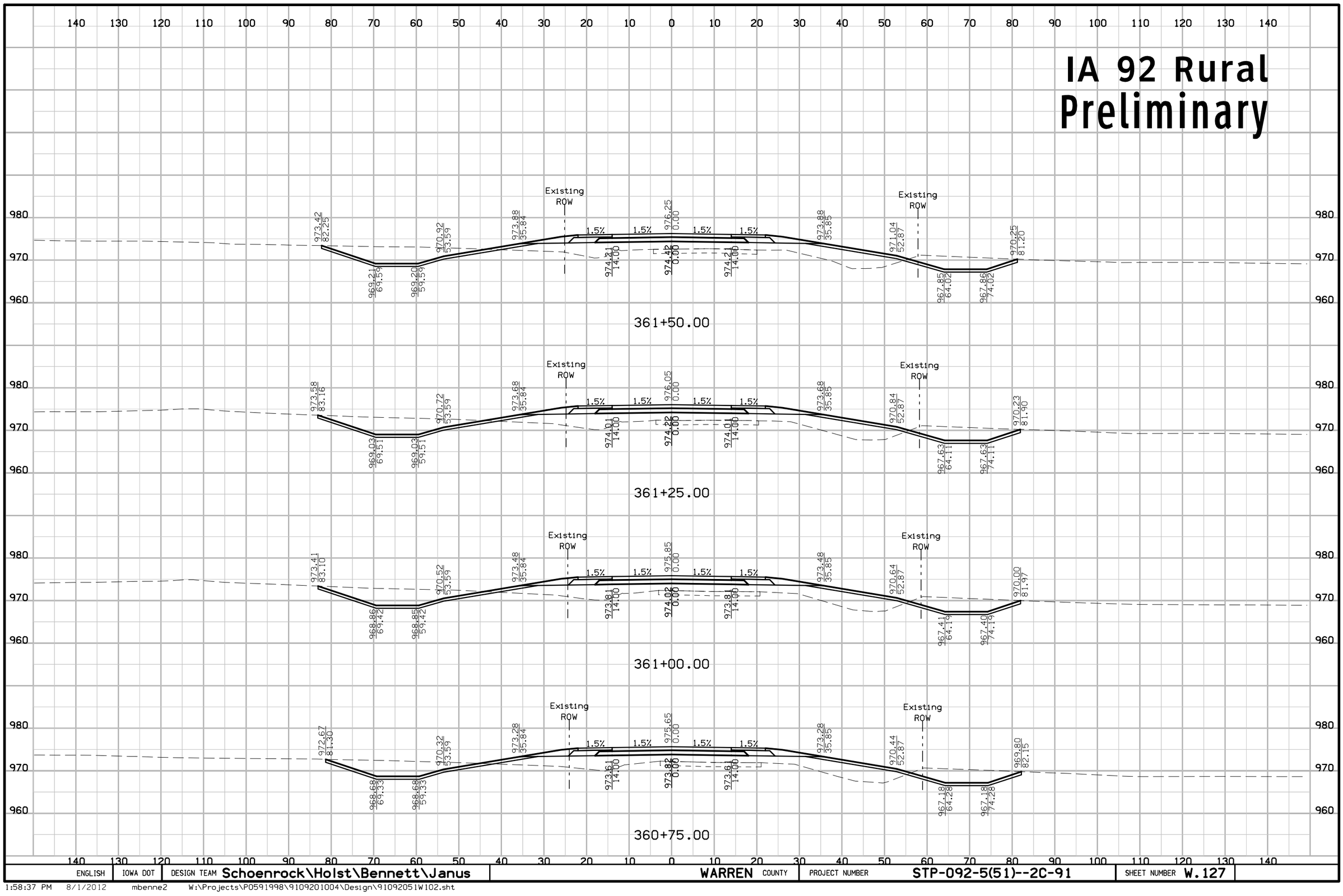

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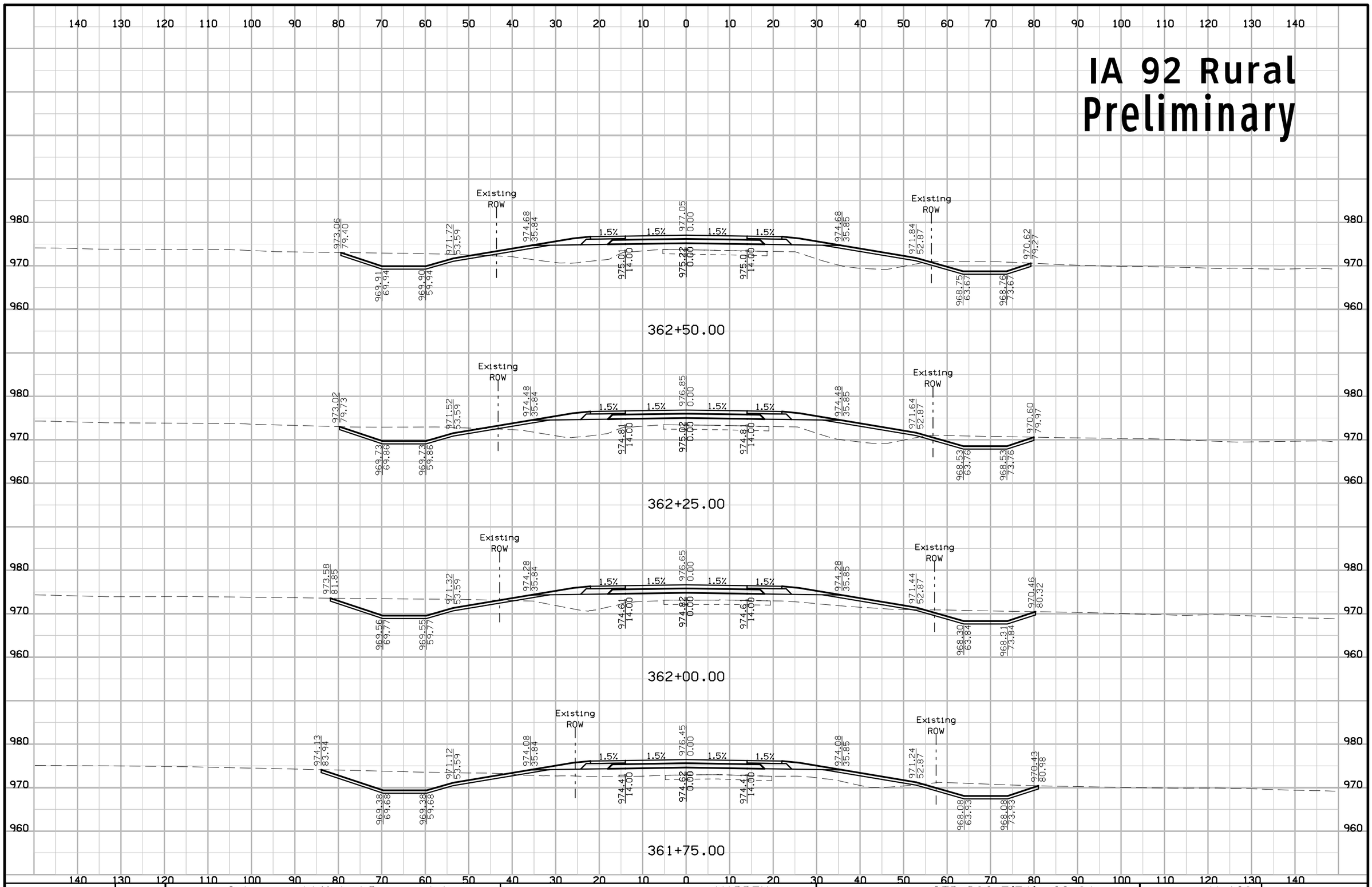
IA 92 Rural
Preliminary



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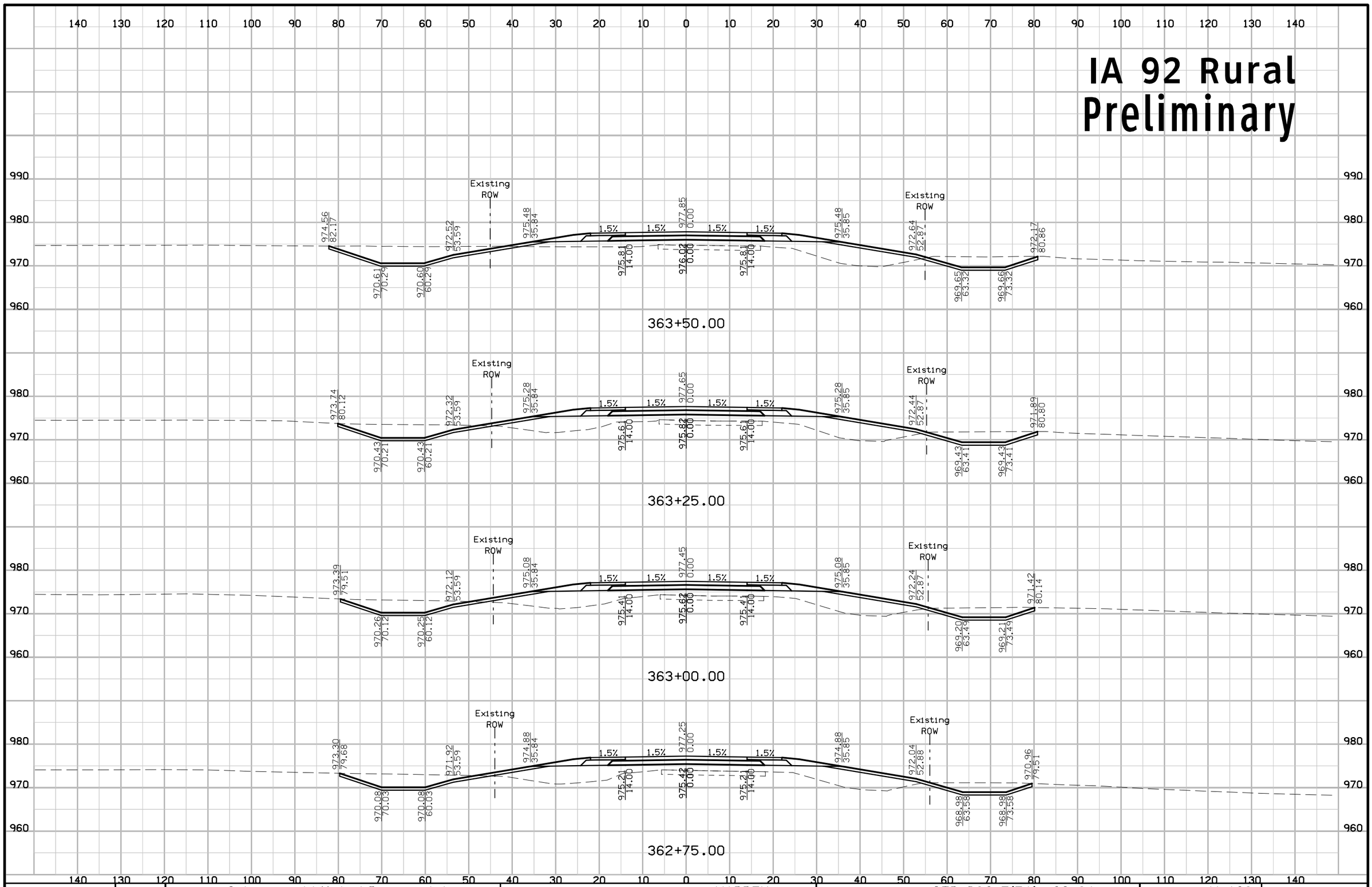
IA 92 Rural
Preliminary



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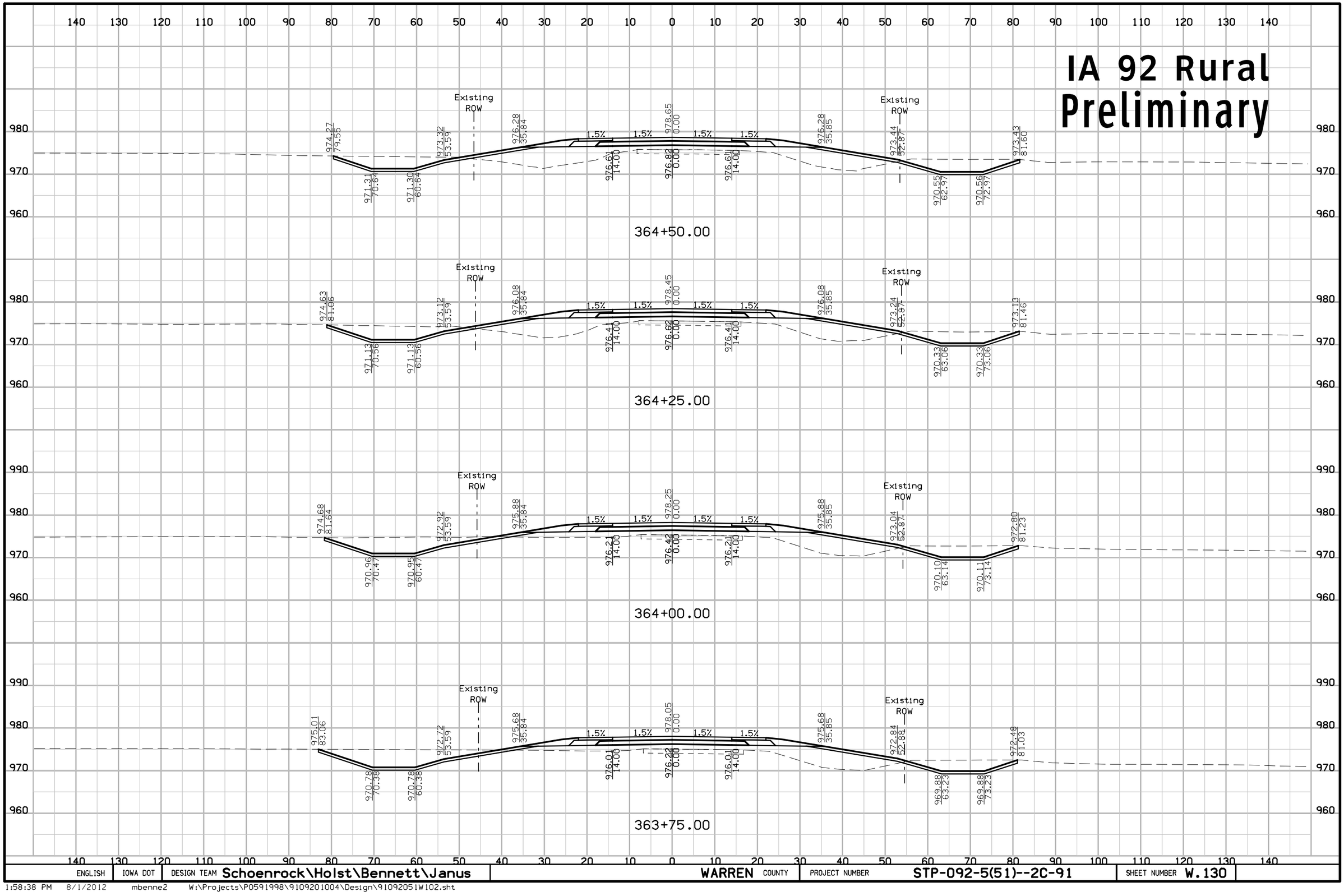
IA 92 Rural Preliminary



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IA 92 Rural
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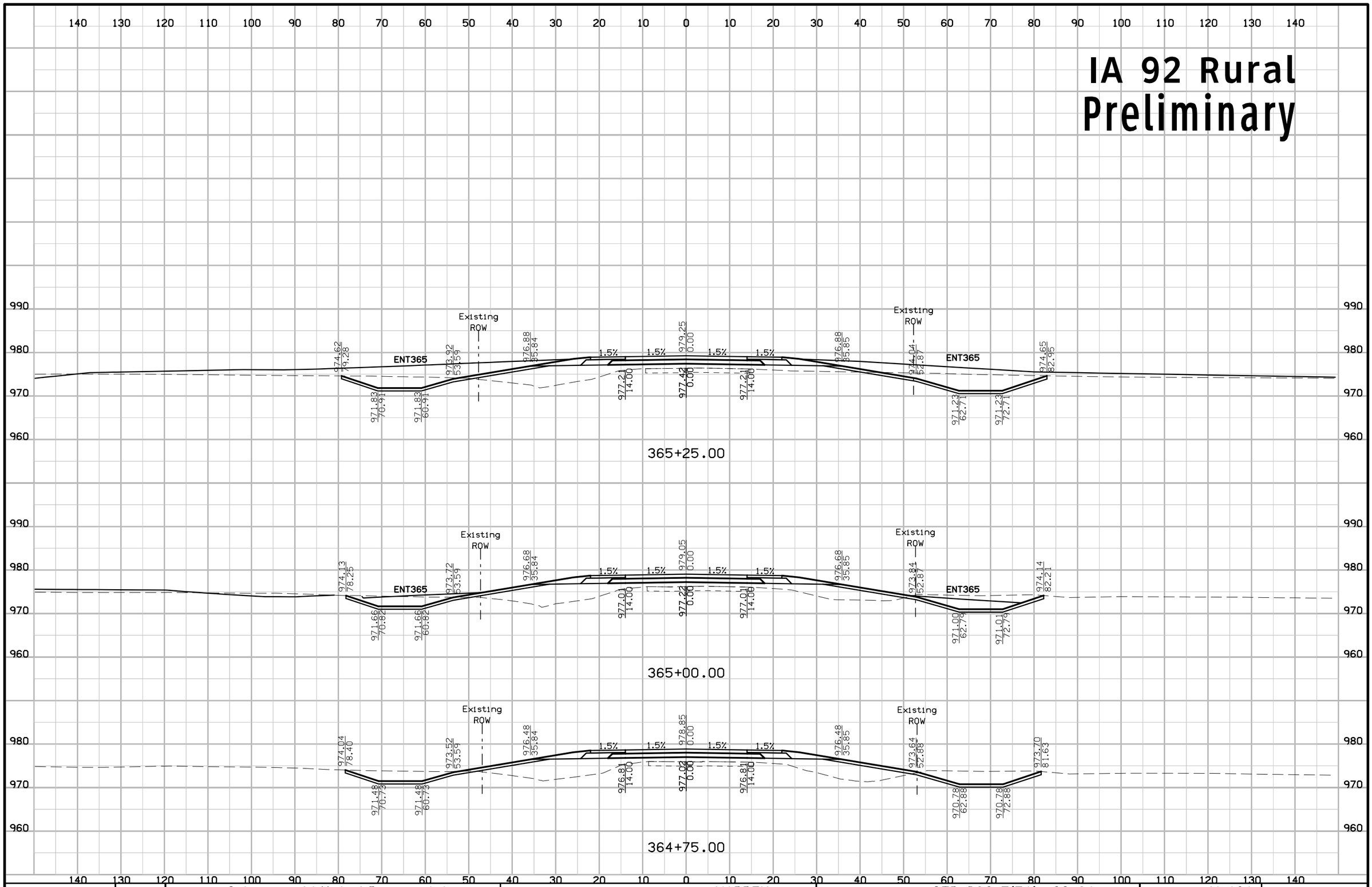

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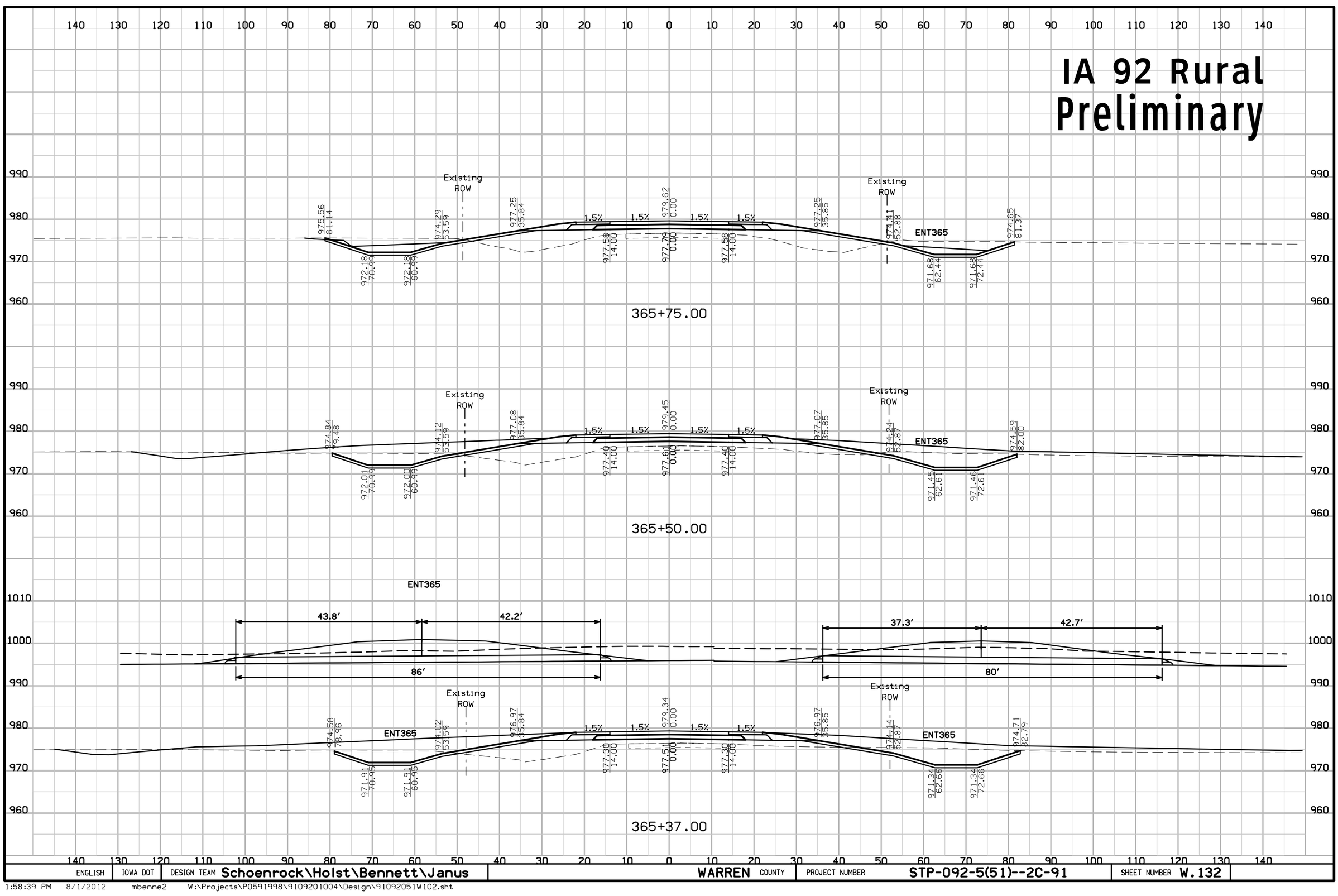
IA 92 Rural
Preliminary



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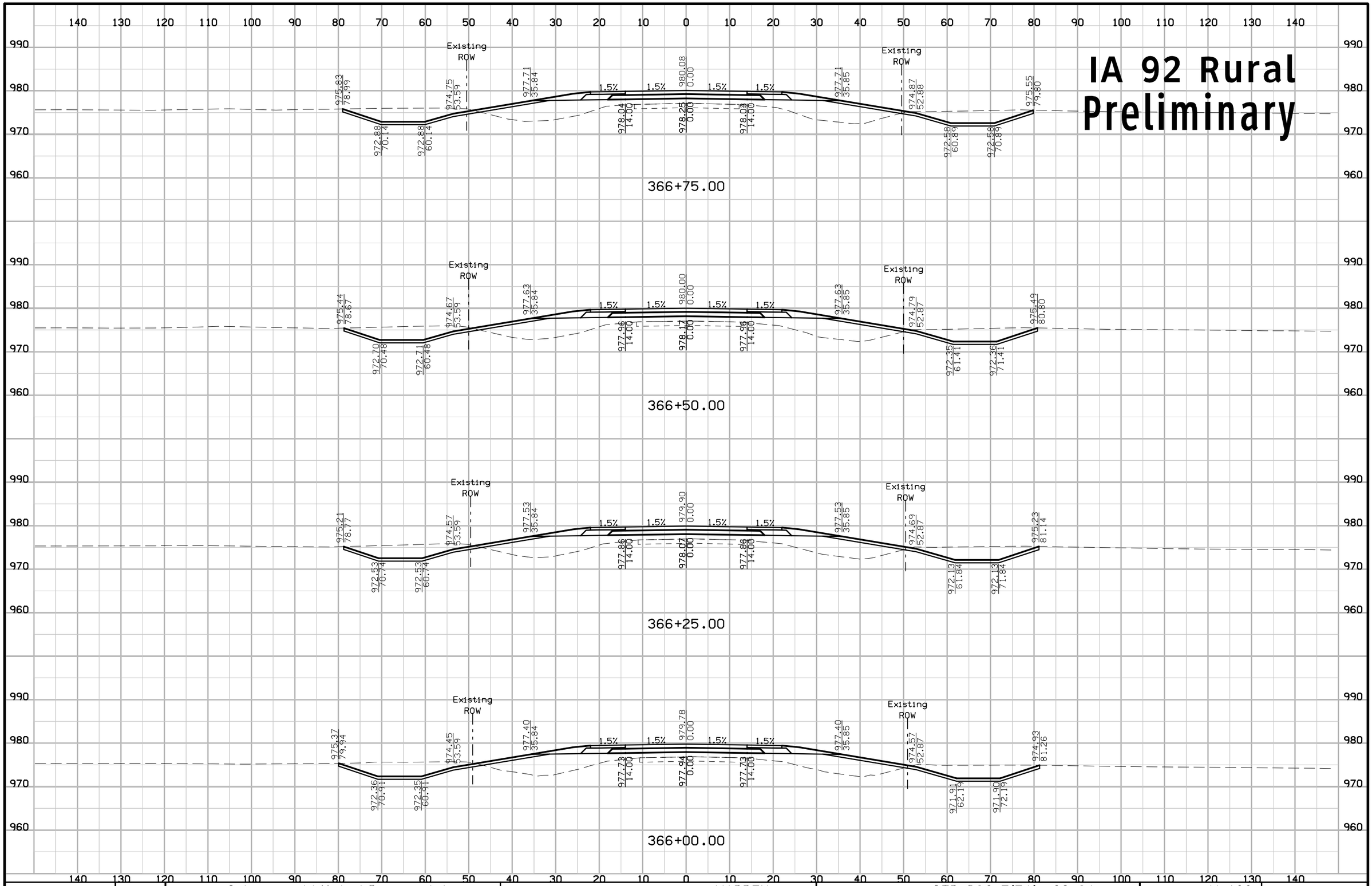
IA 92 Rural Preliminary



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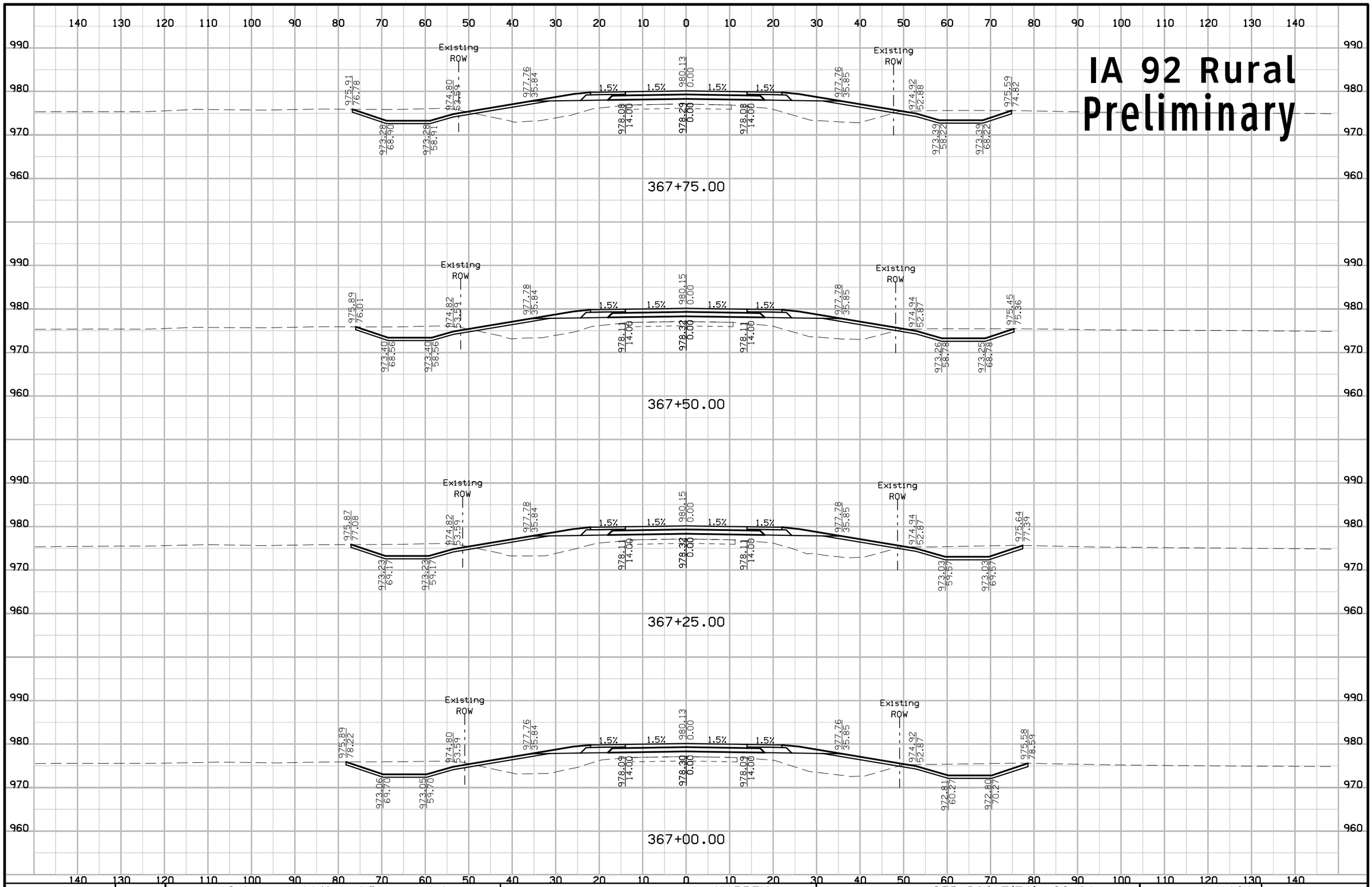
IA 92 Rural Preliminary



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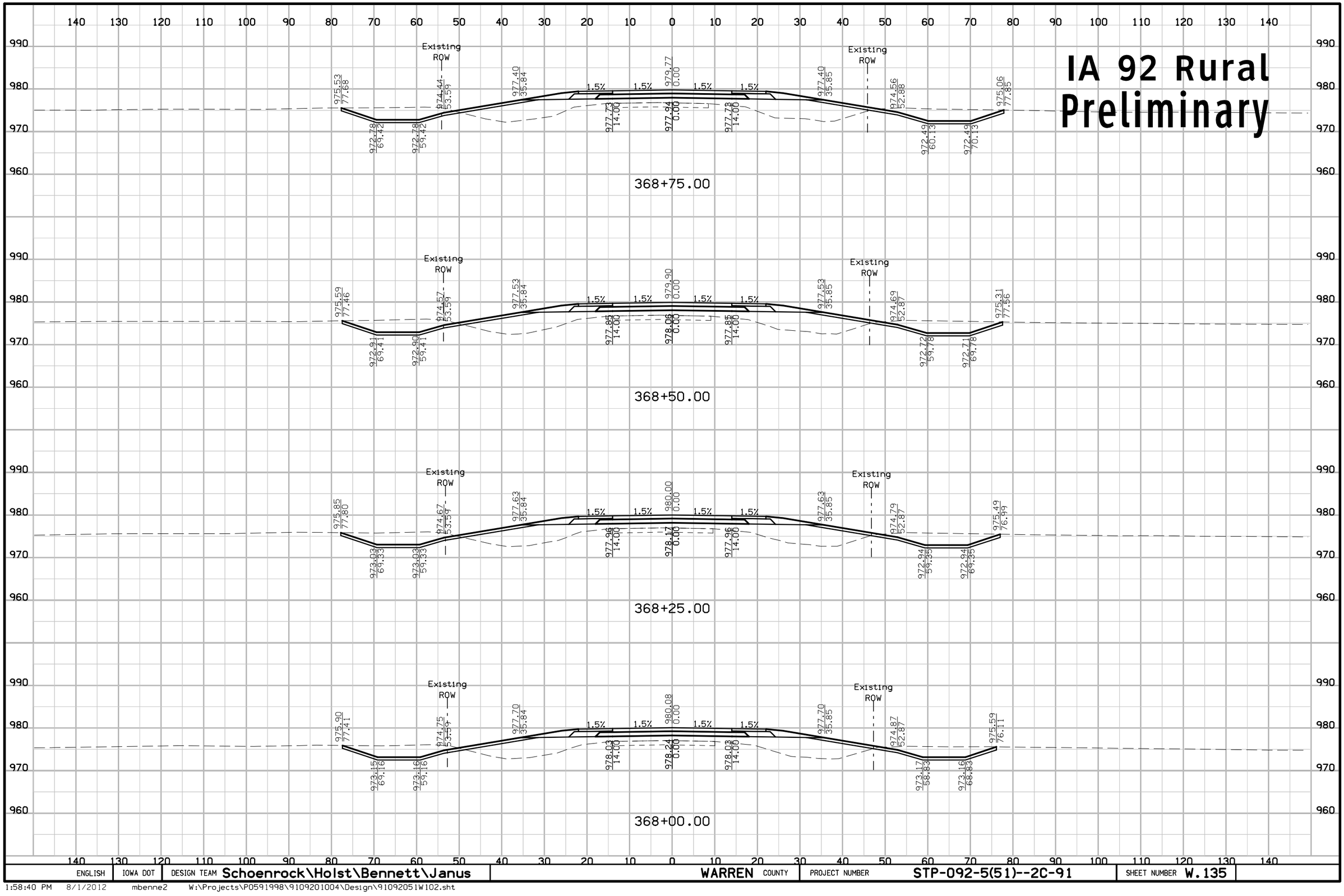
IA 92 Rural Preliminary



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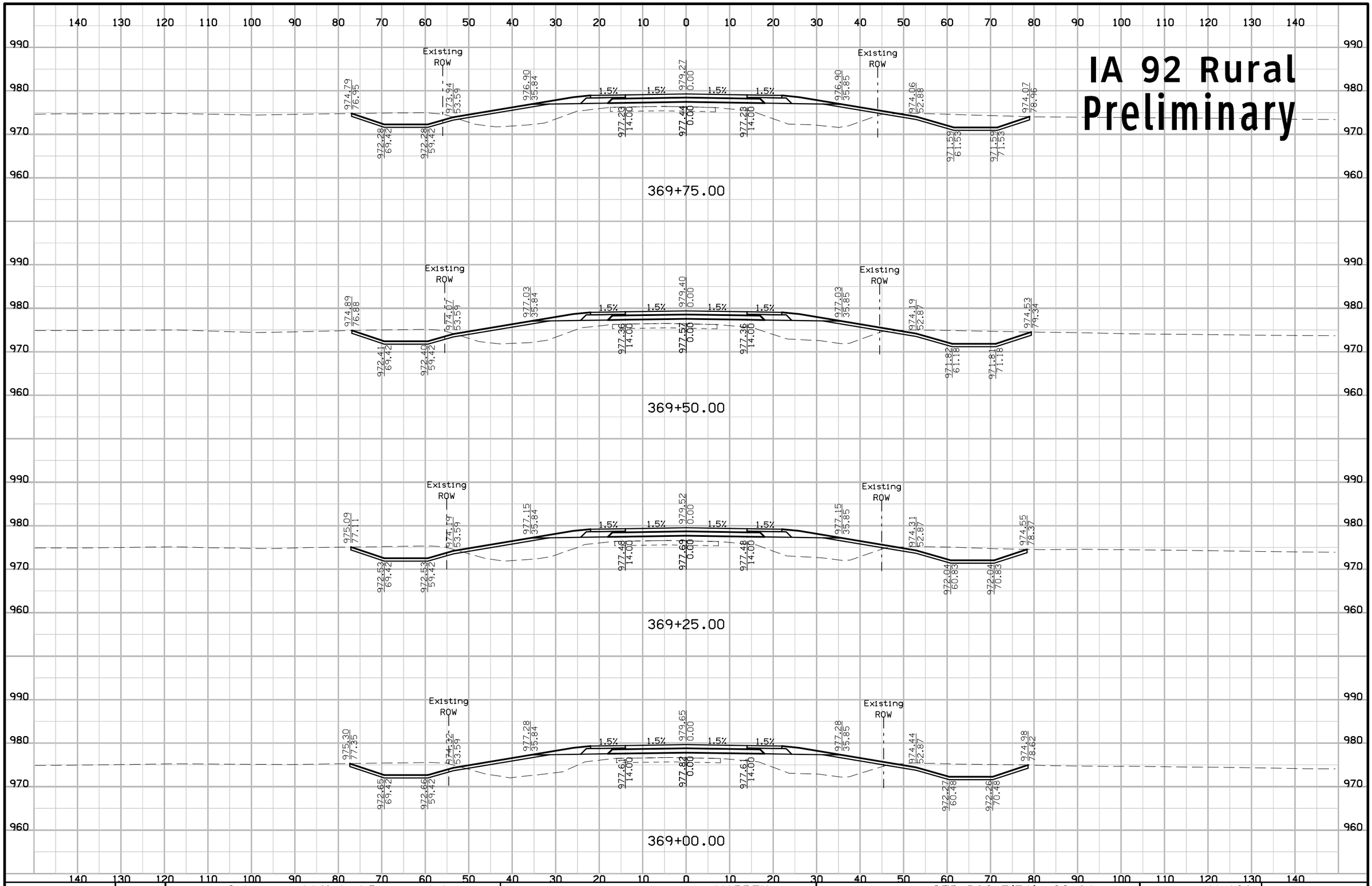
IA 92 Rural Preliminary



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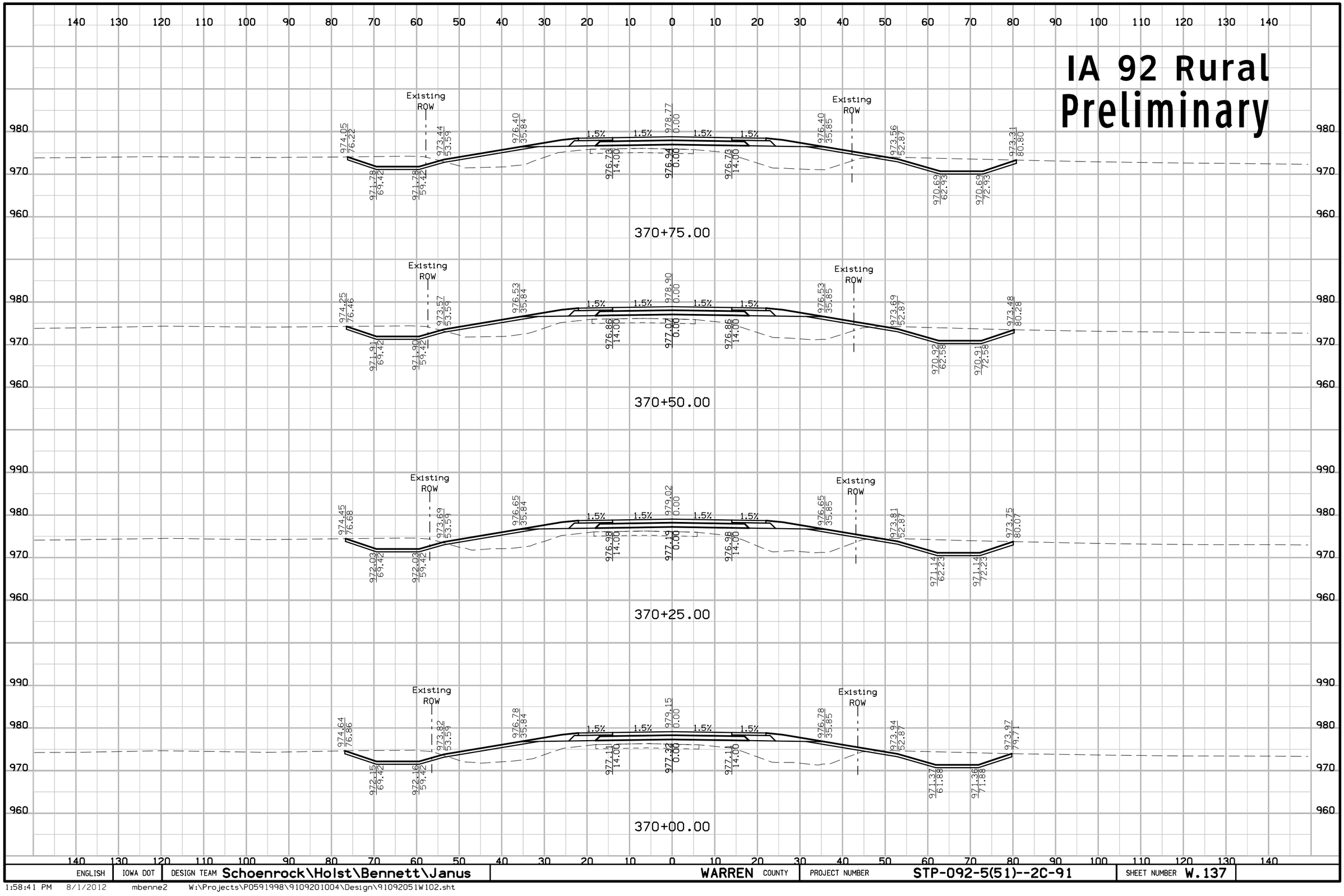
IA 92 Rural Preliminary



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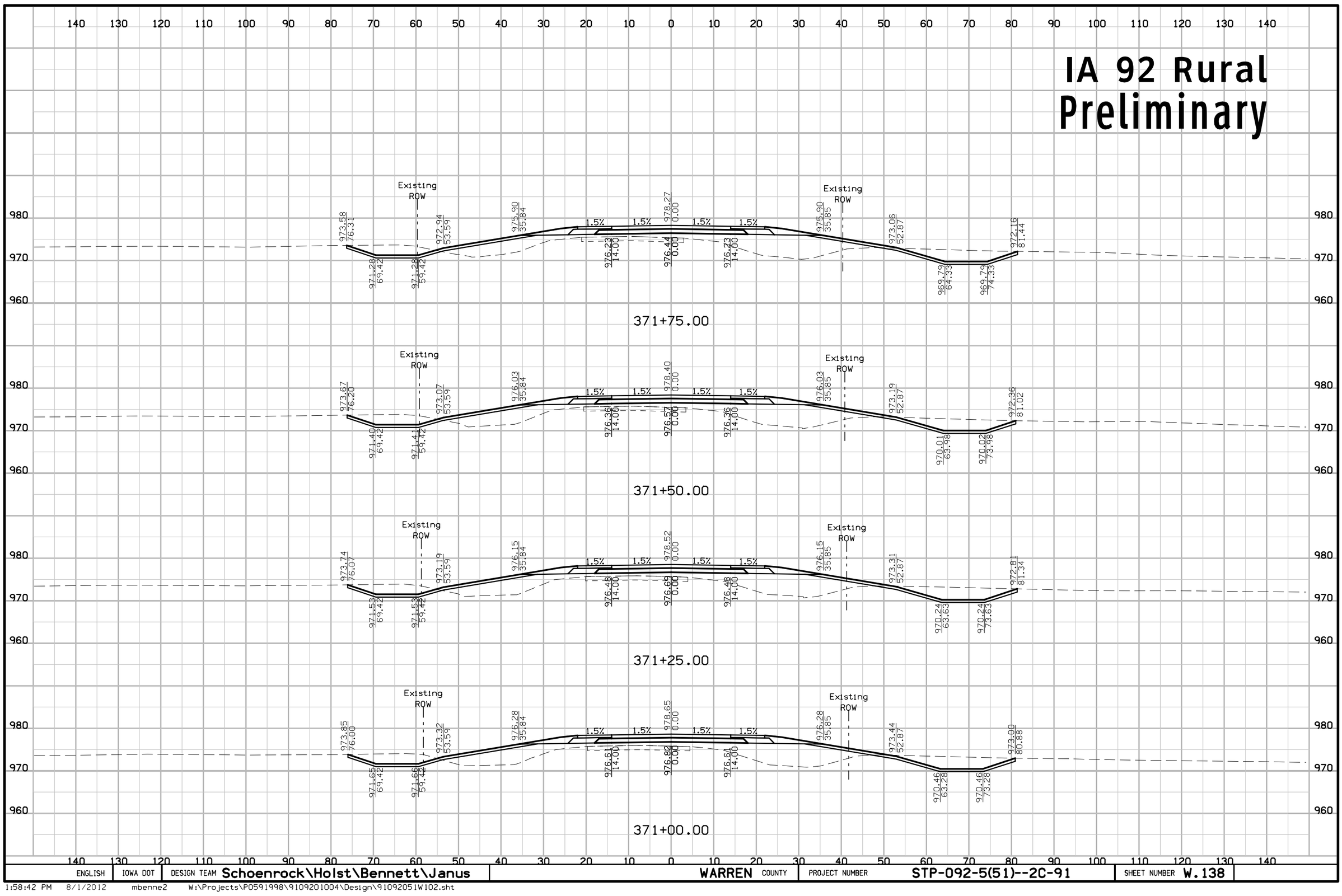
IA 92 Rural
Preliminary



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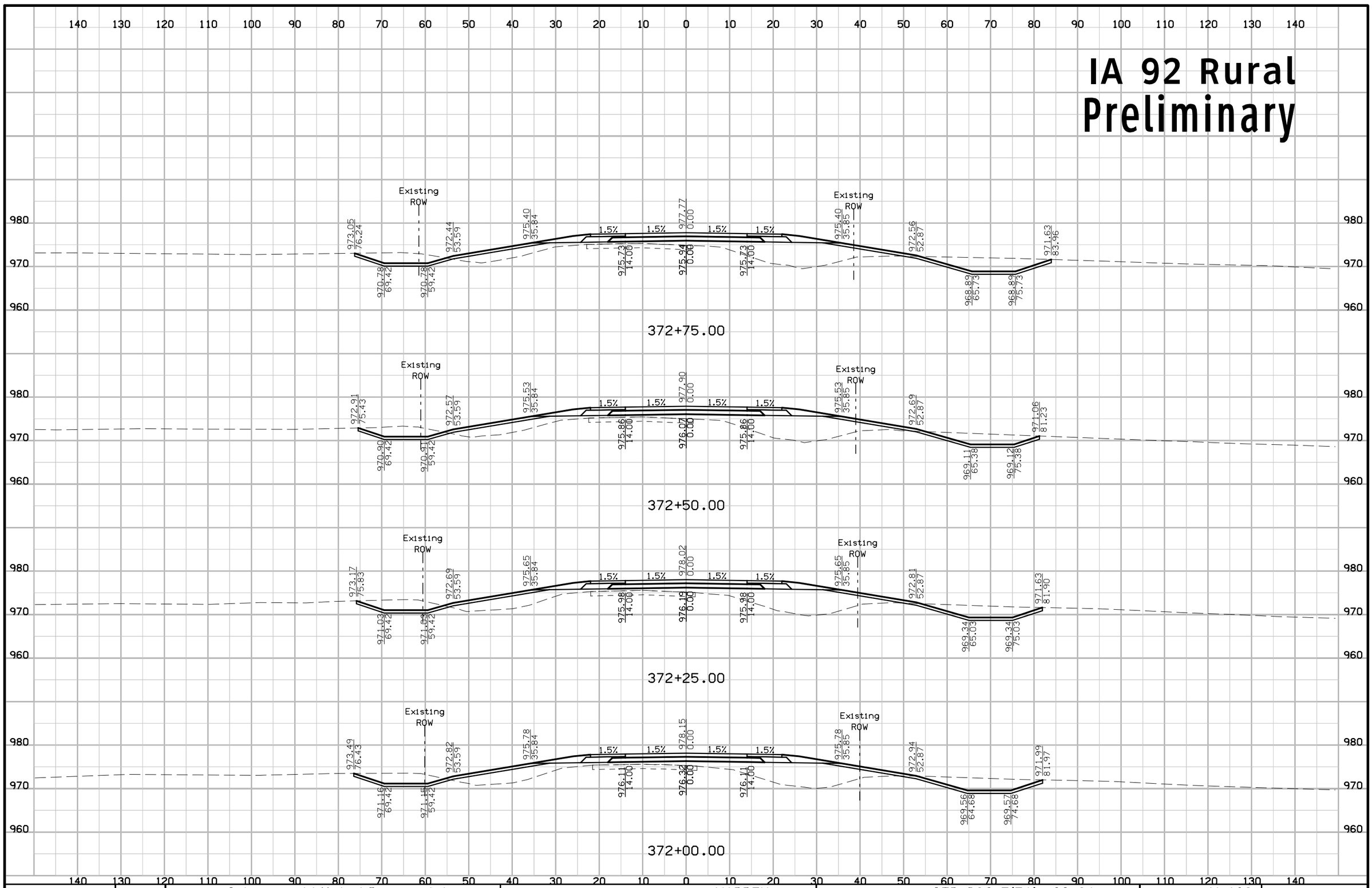
IA 92 Rural
Preliminary



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IA 92 Rural
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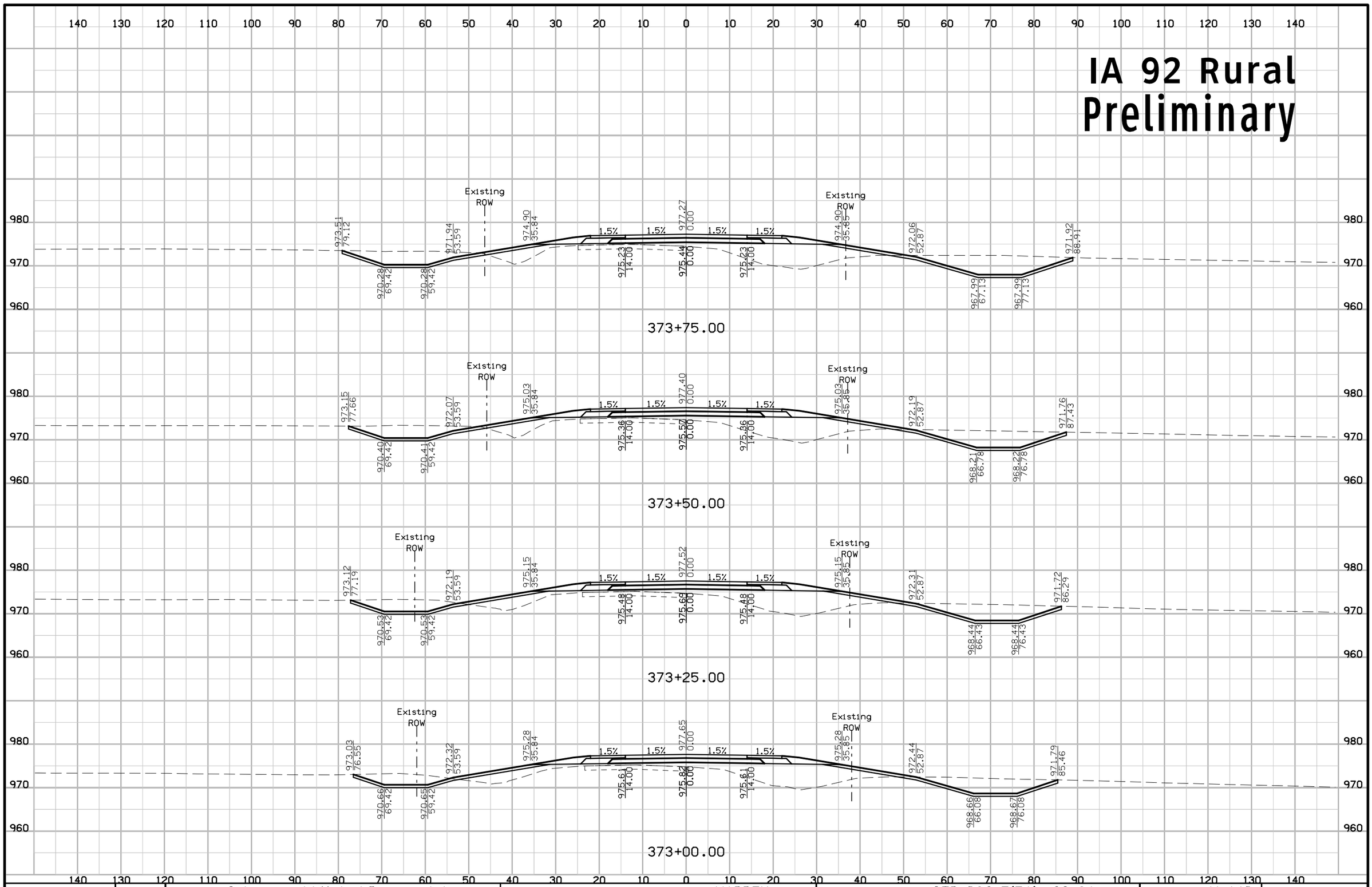

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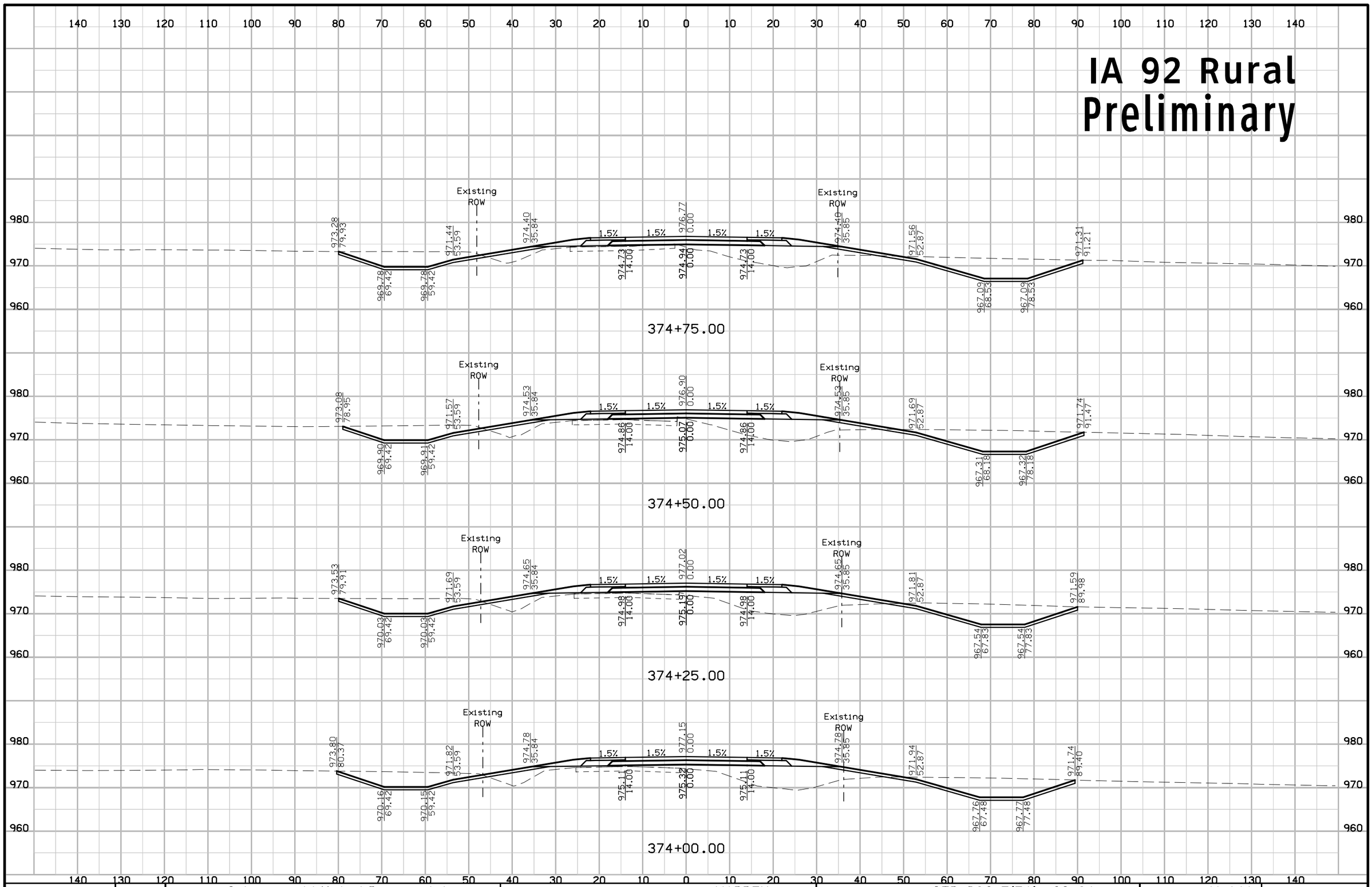
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.141

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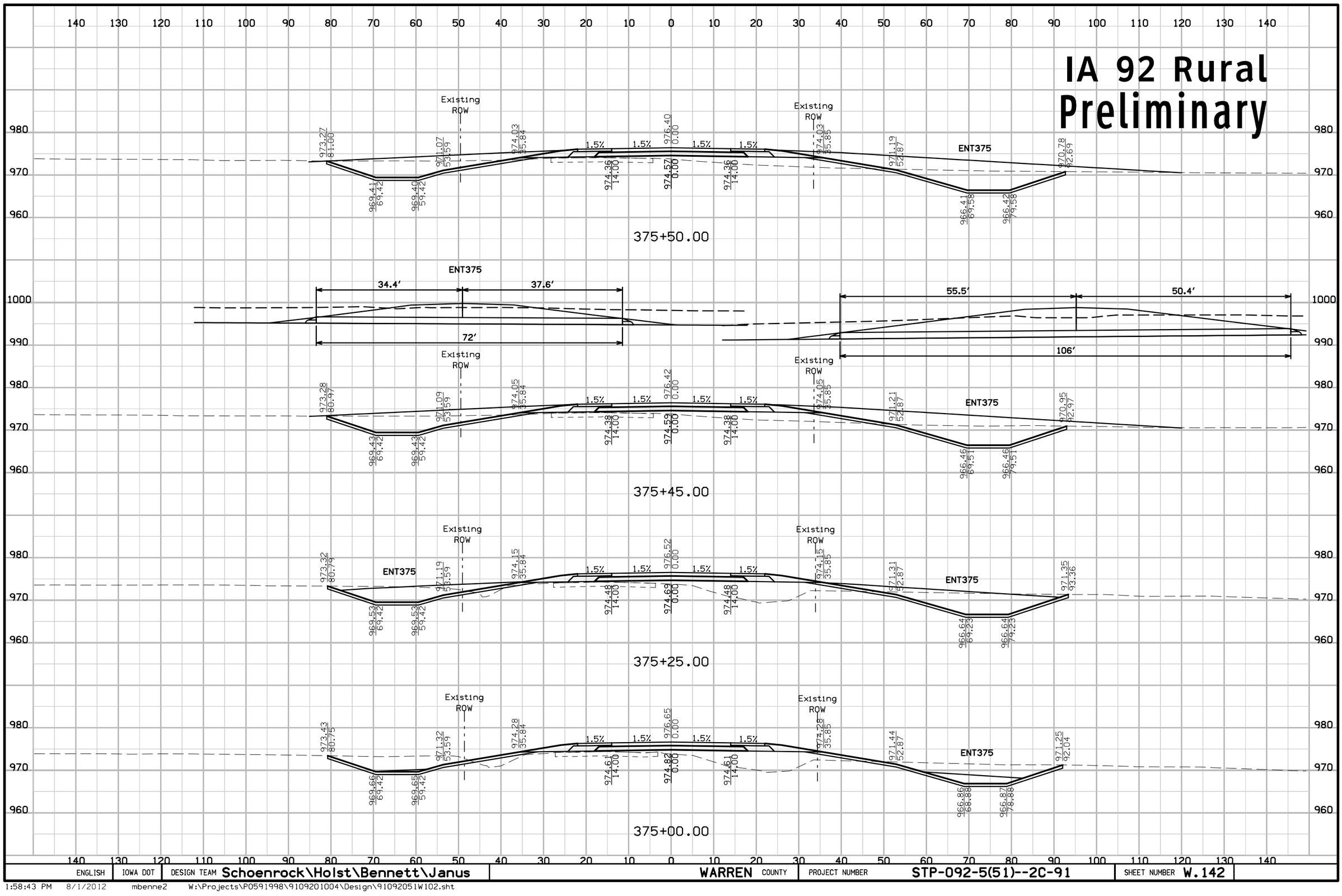
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.142

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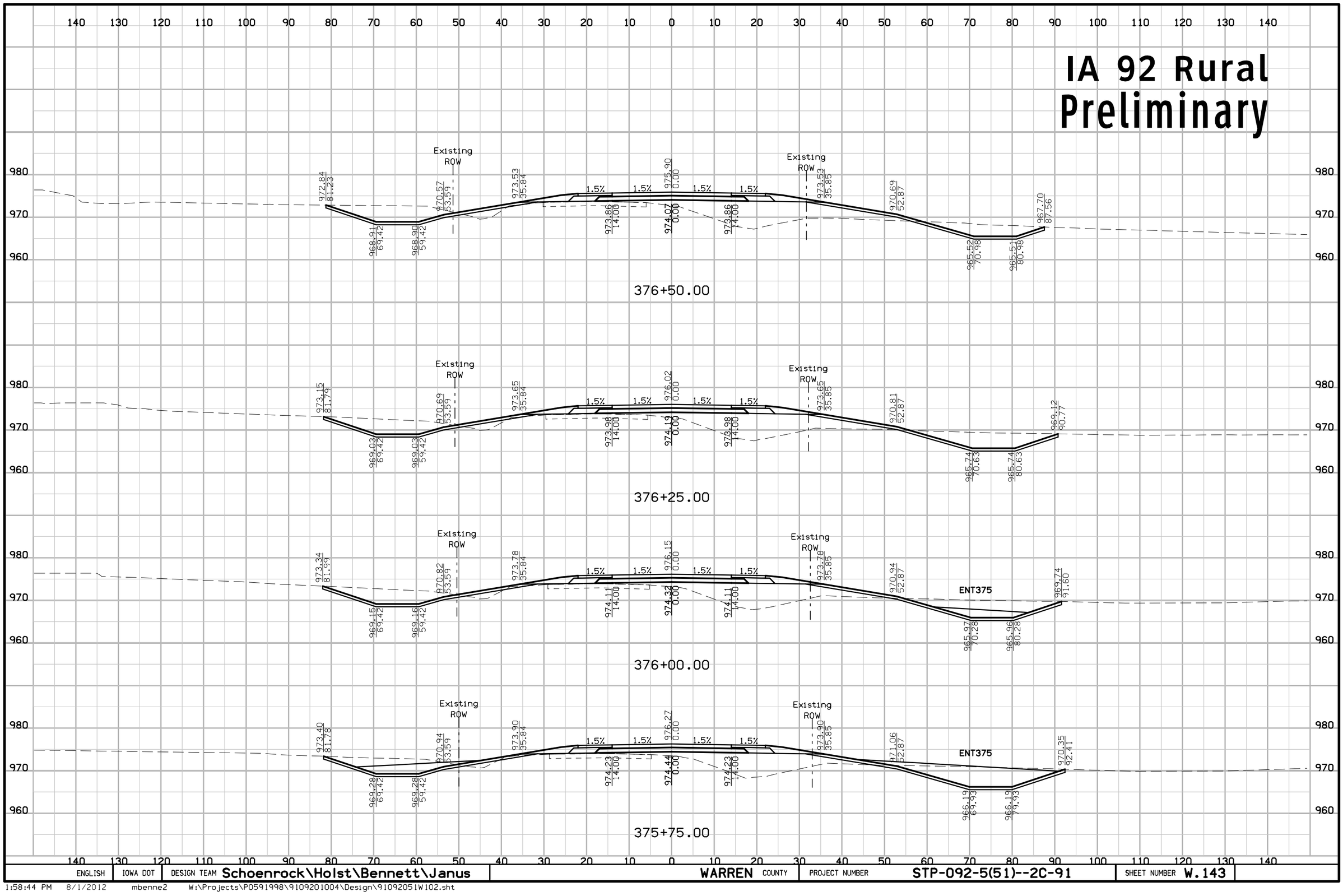
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.143

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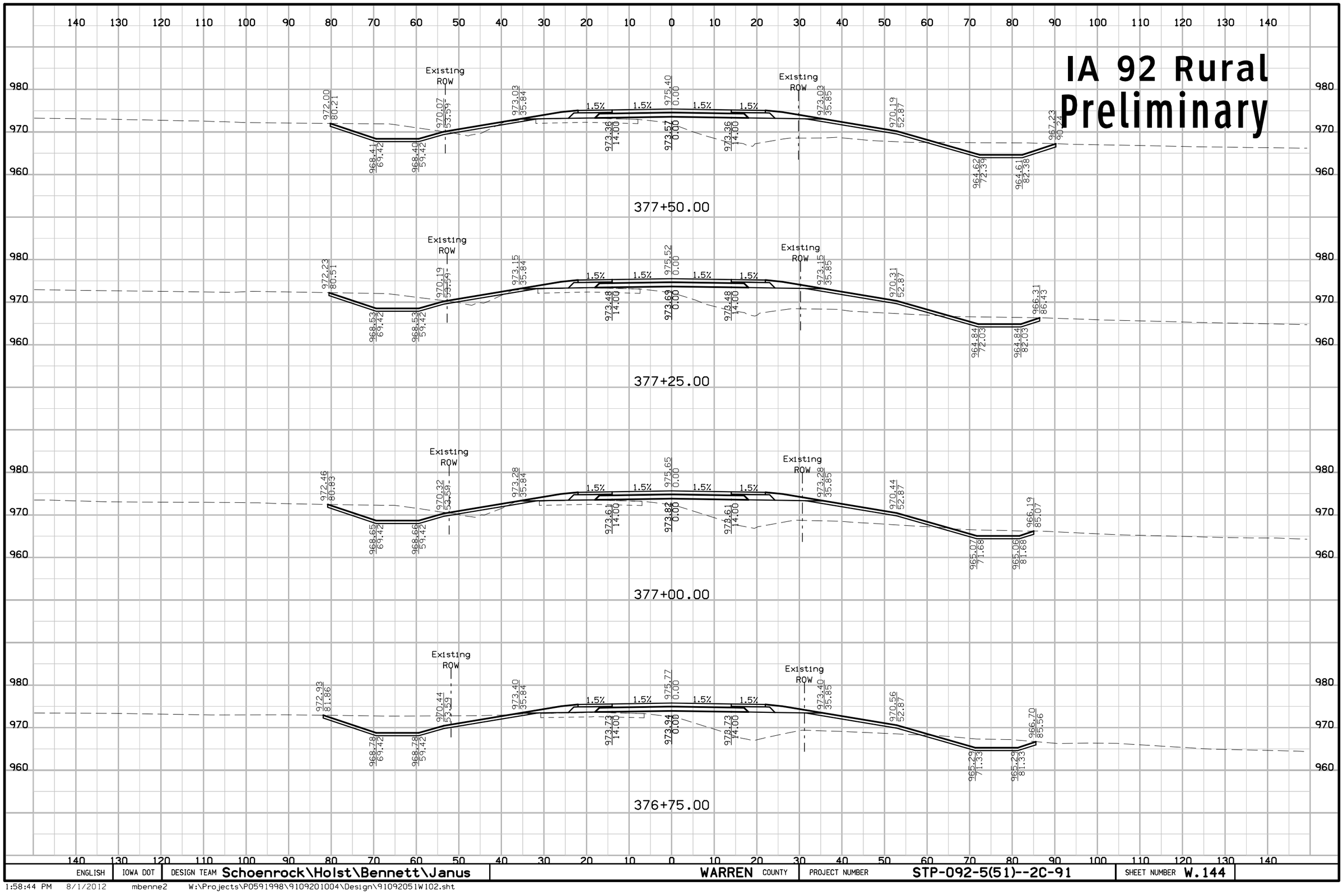
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.144

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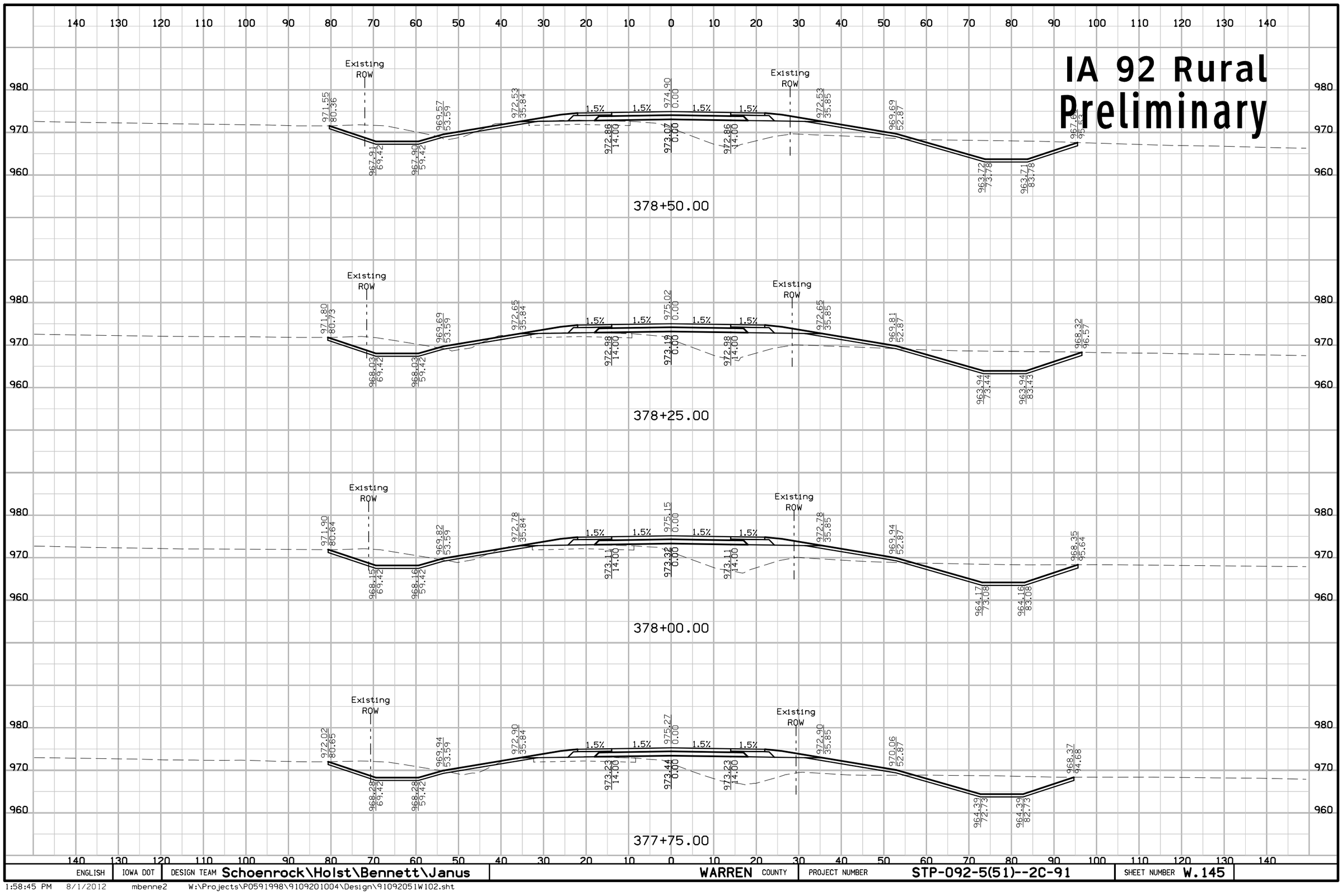
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.145

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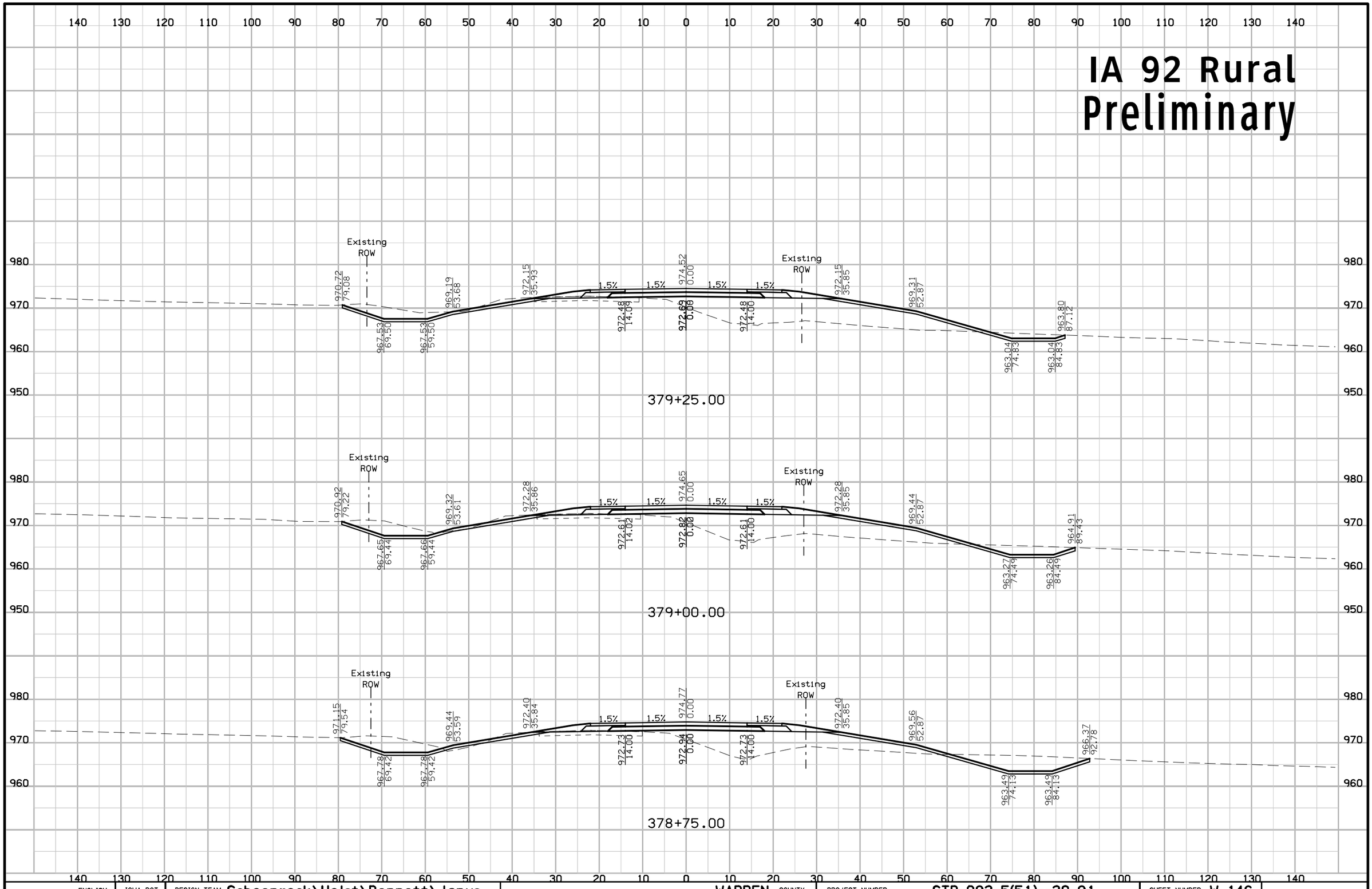
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.146

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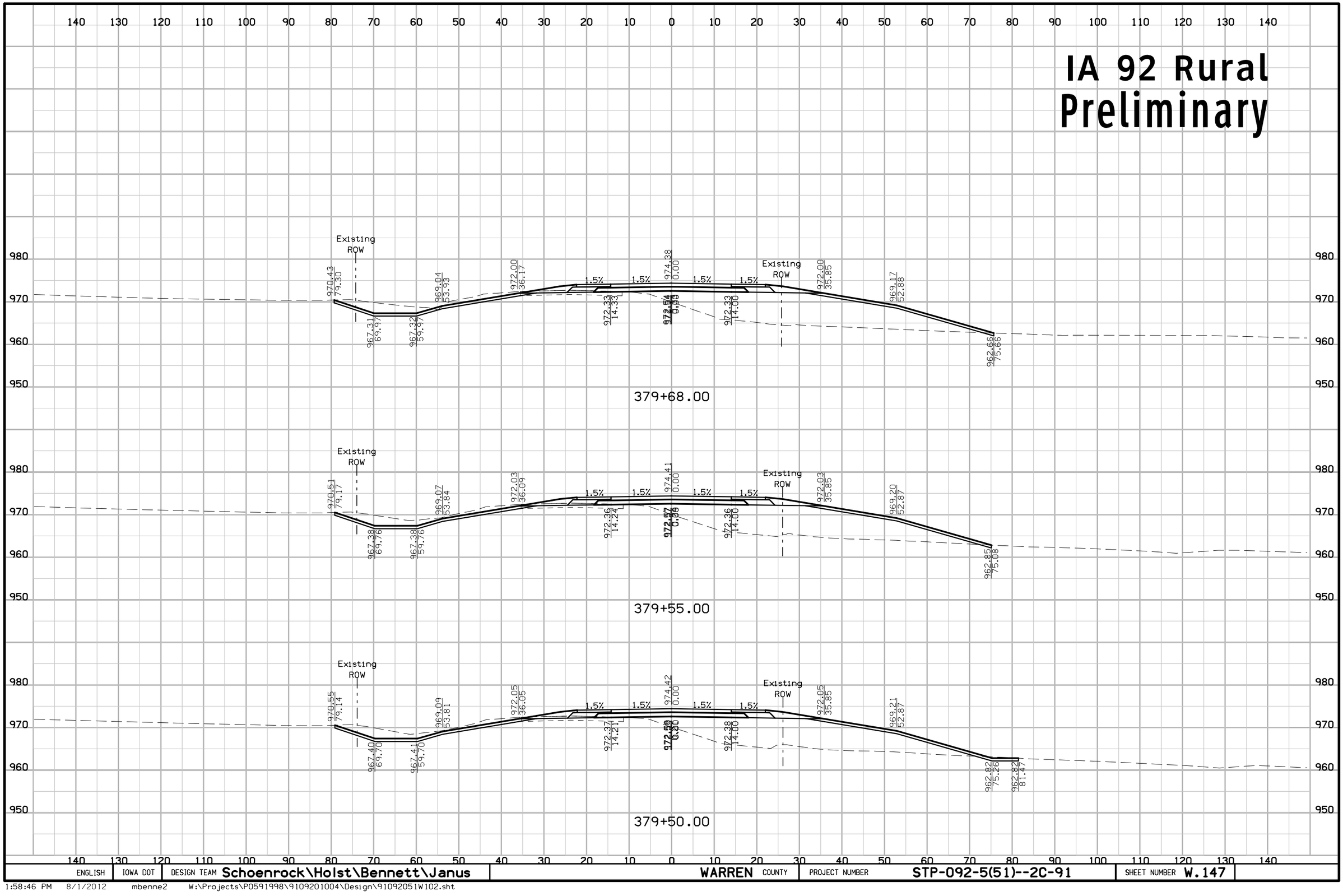
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.147

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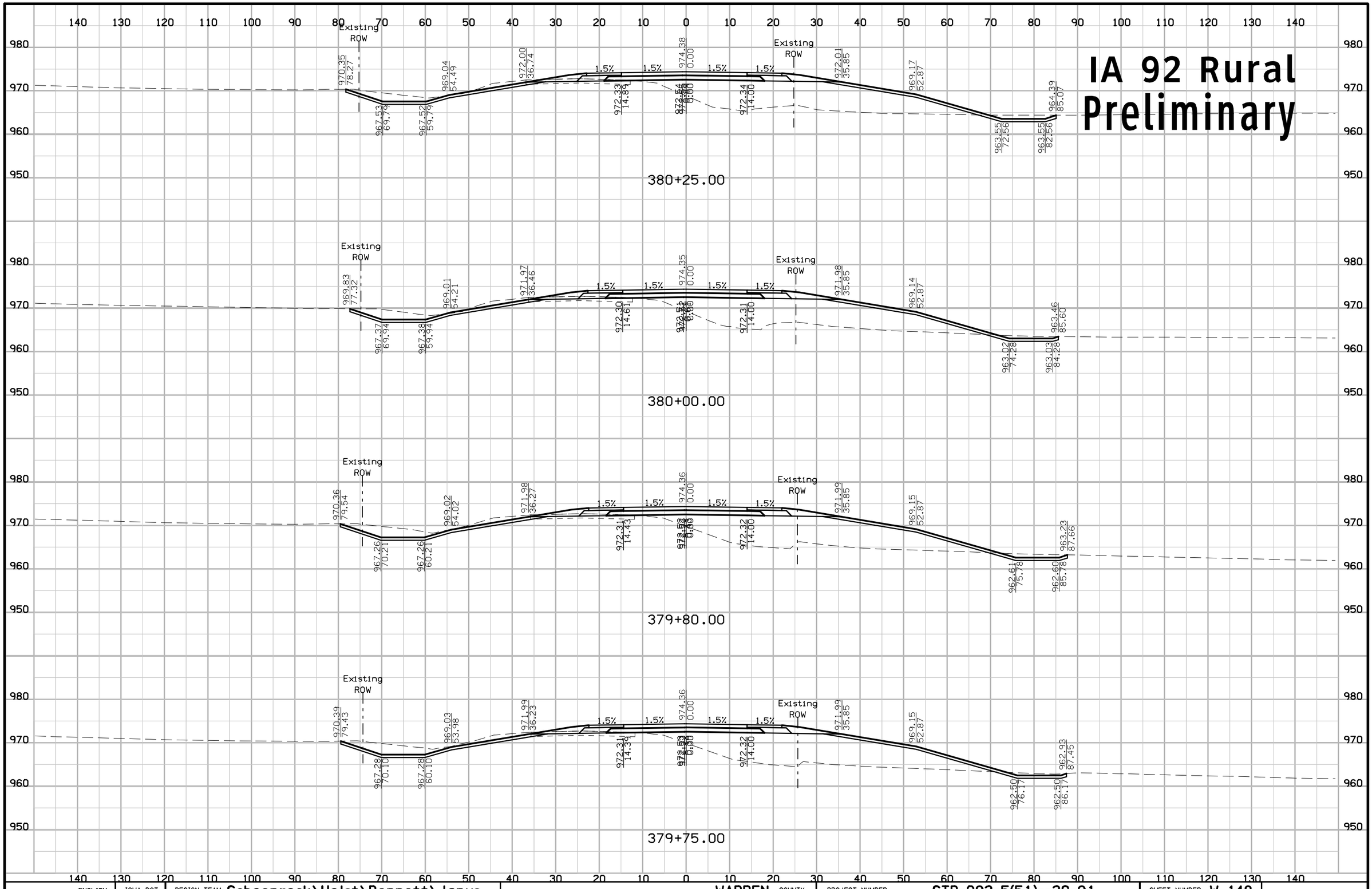
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.148

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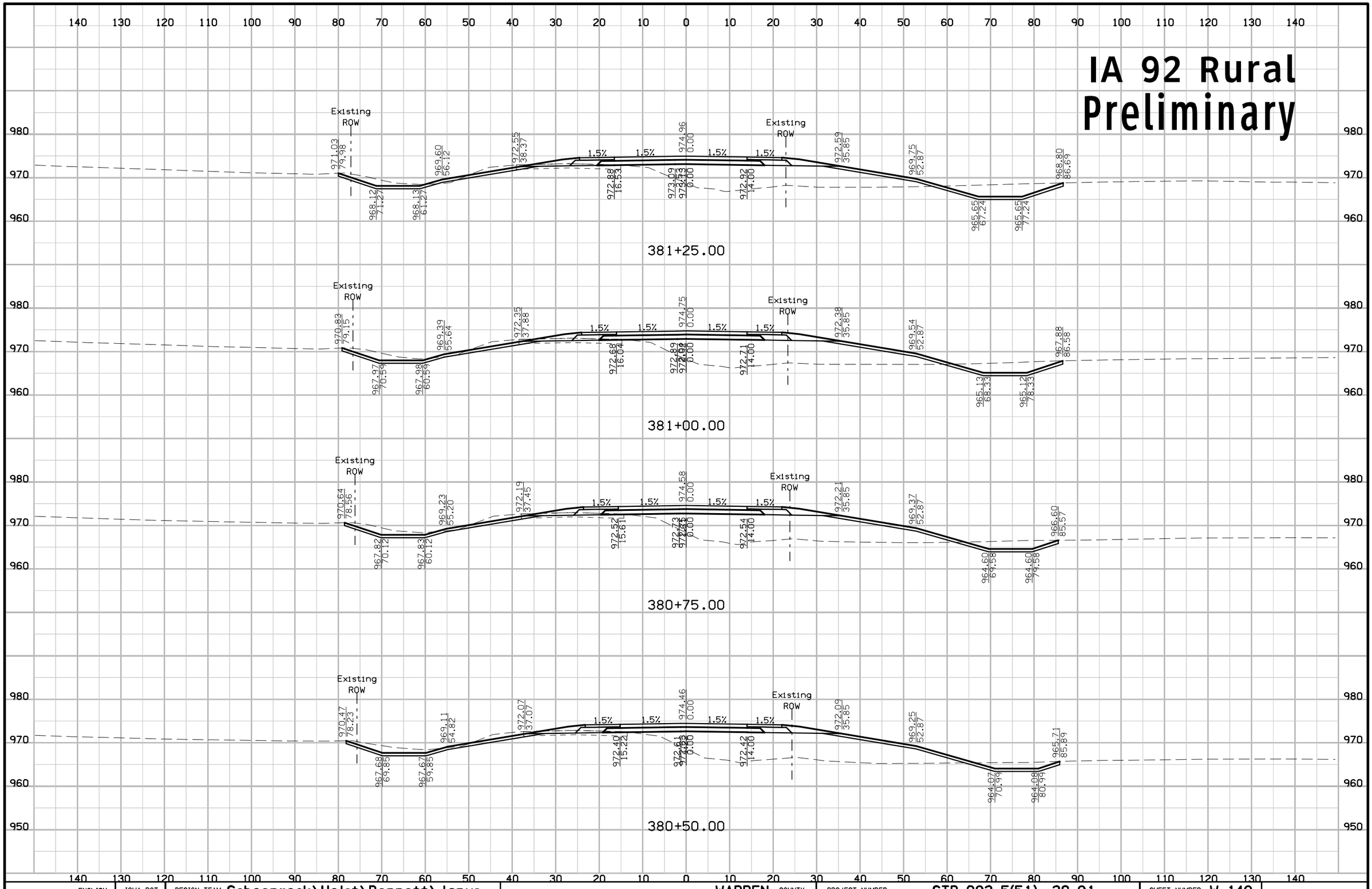
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.149

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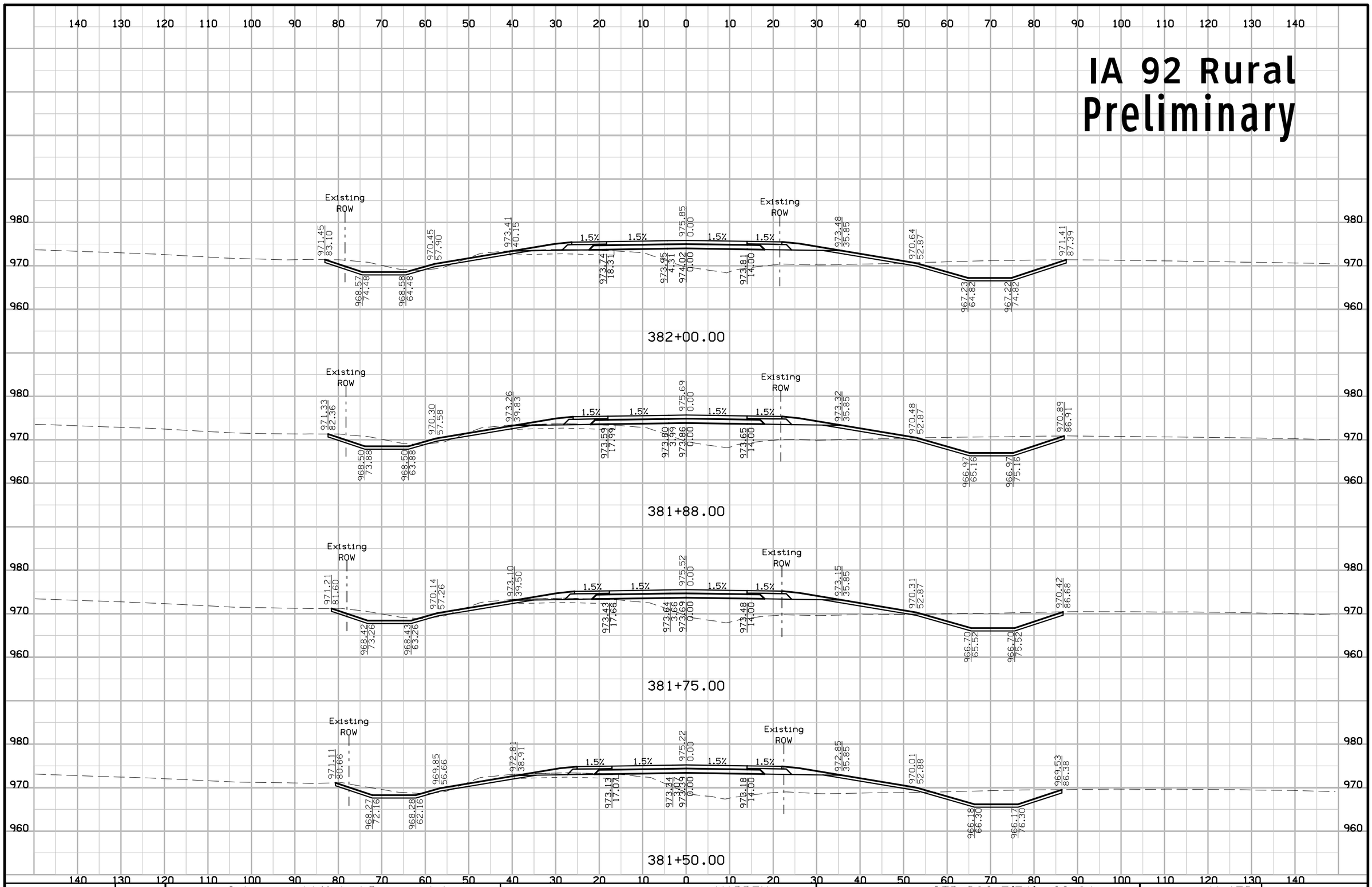
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.150

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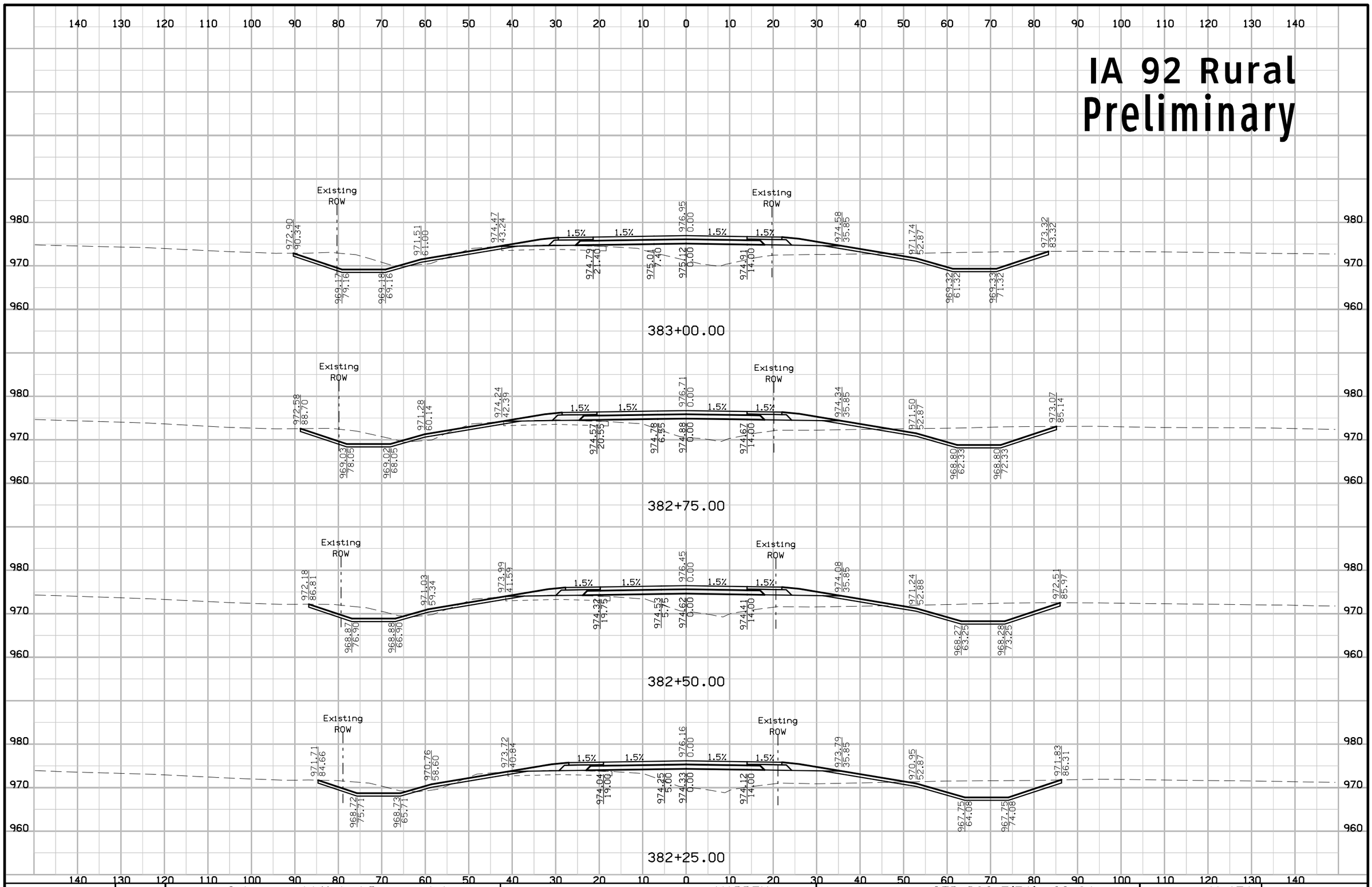
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.151

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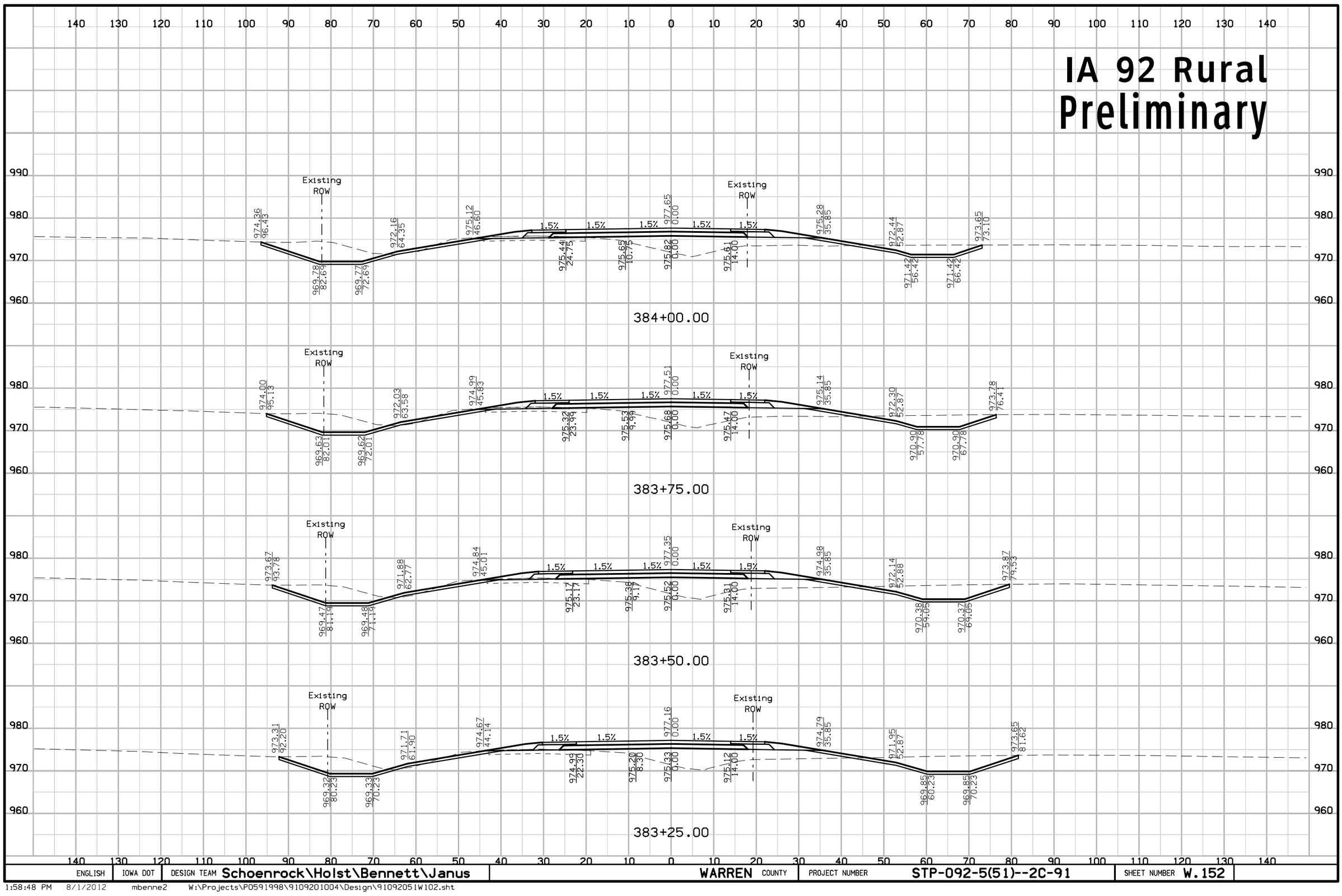
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.152

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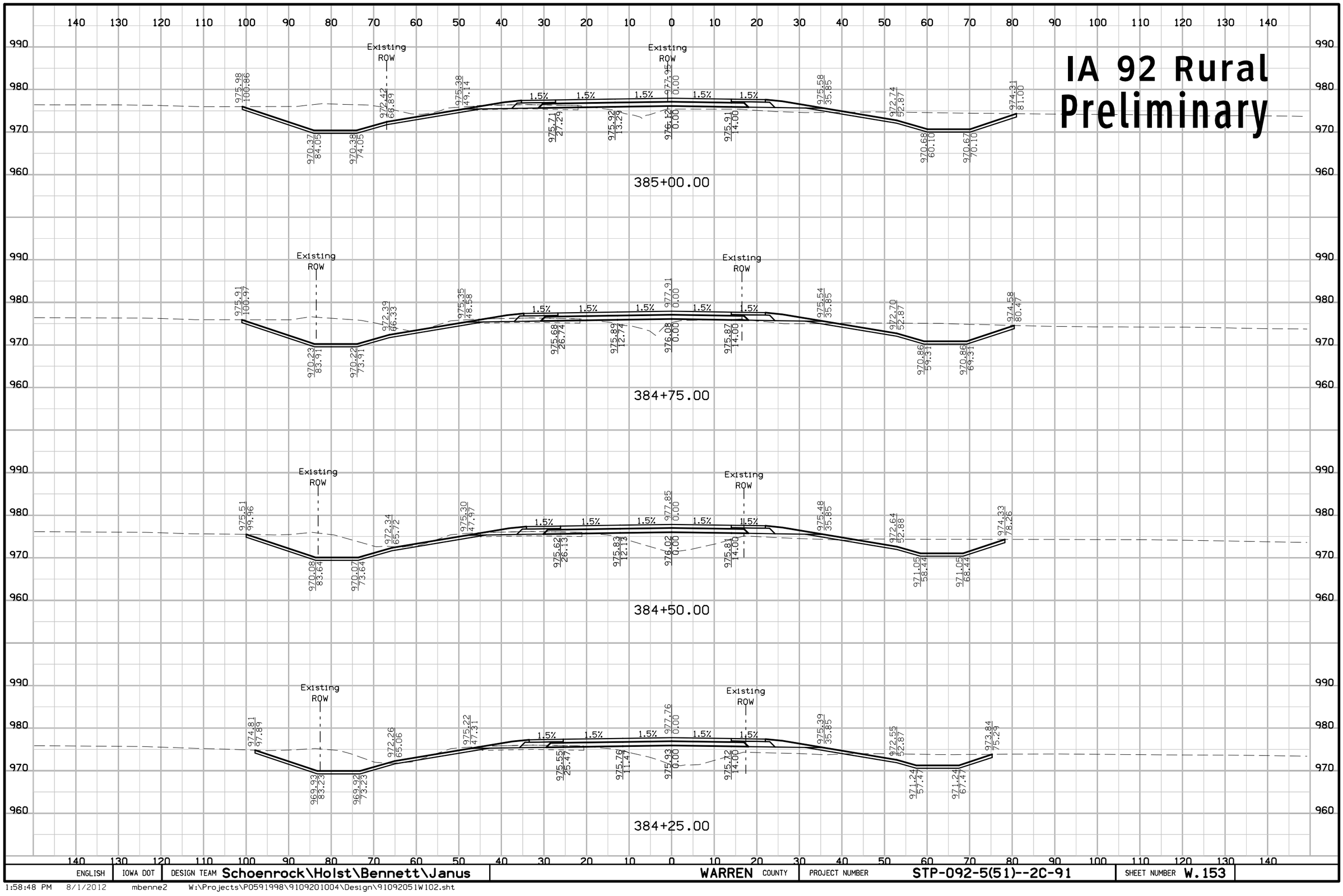
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.153

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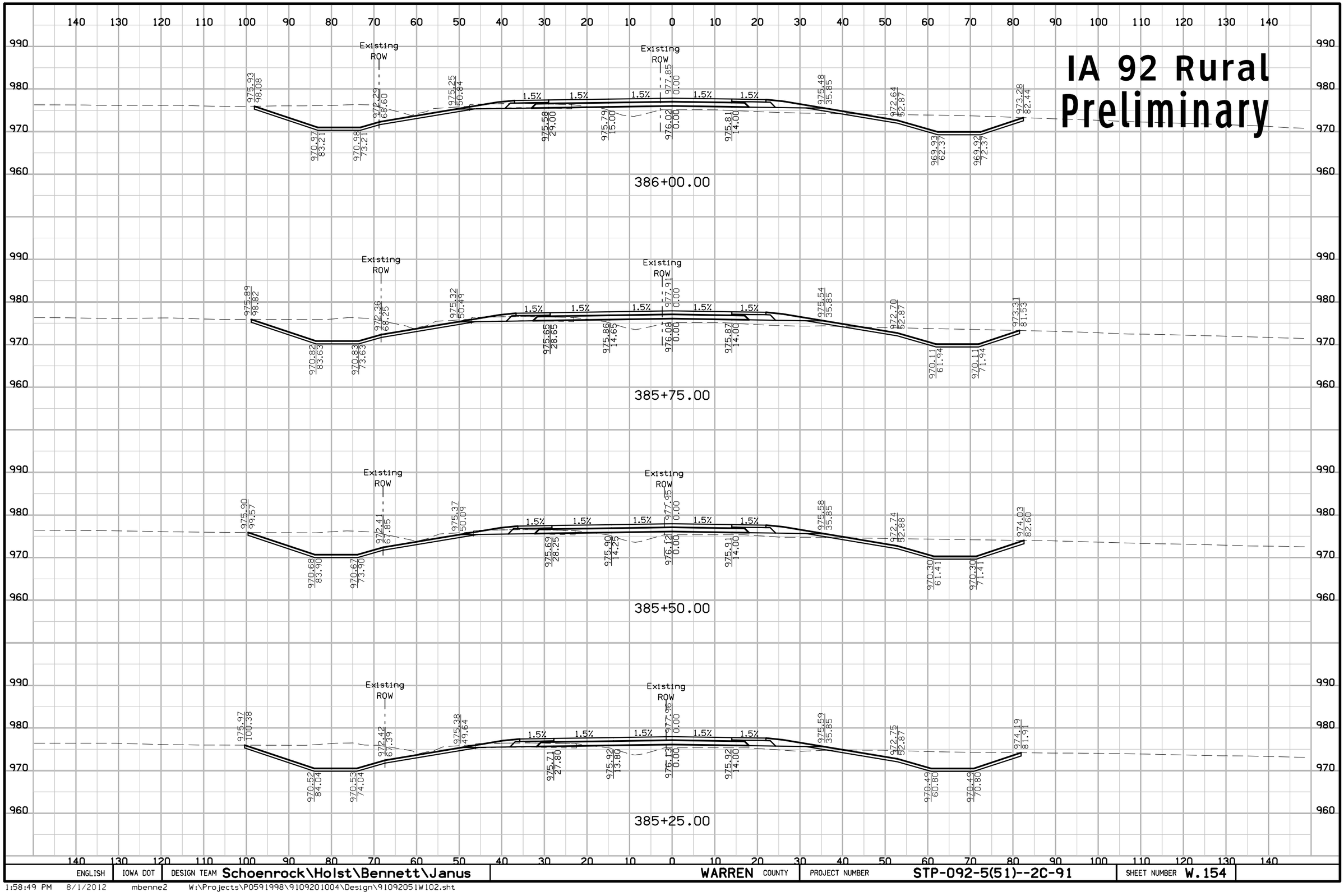
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.154

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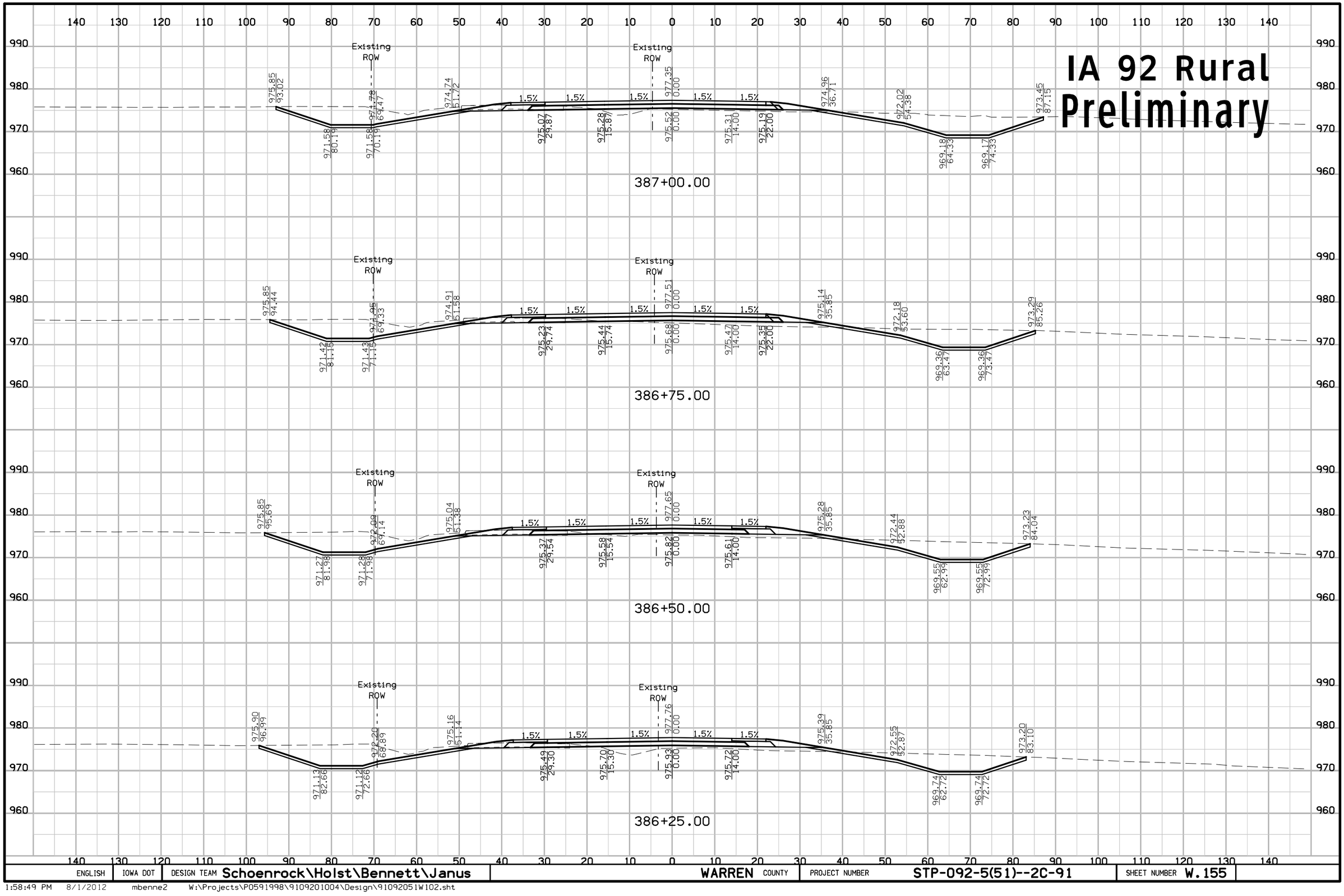
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.155

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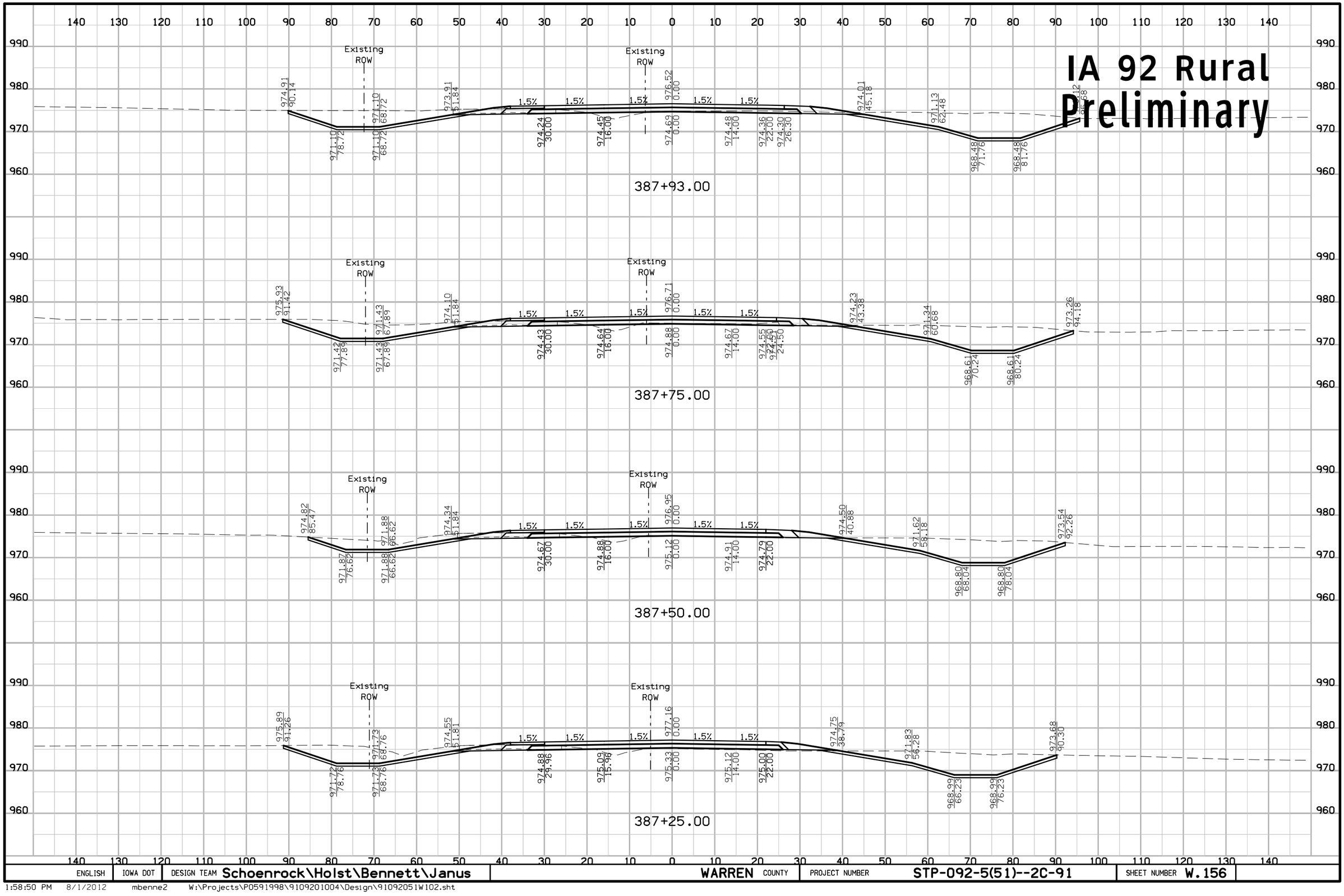
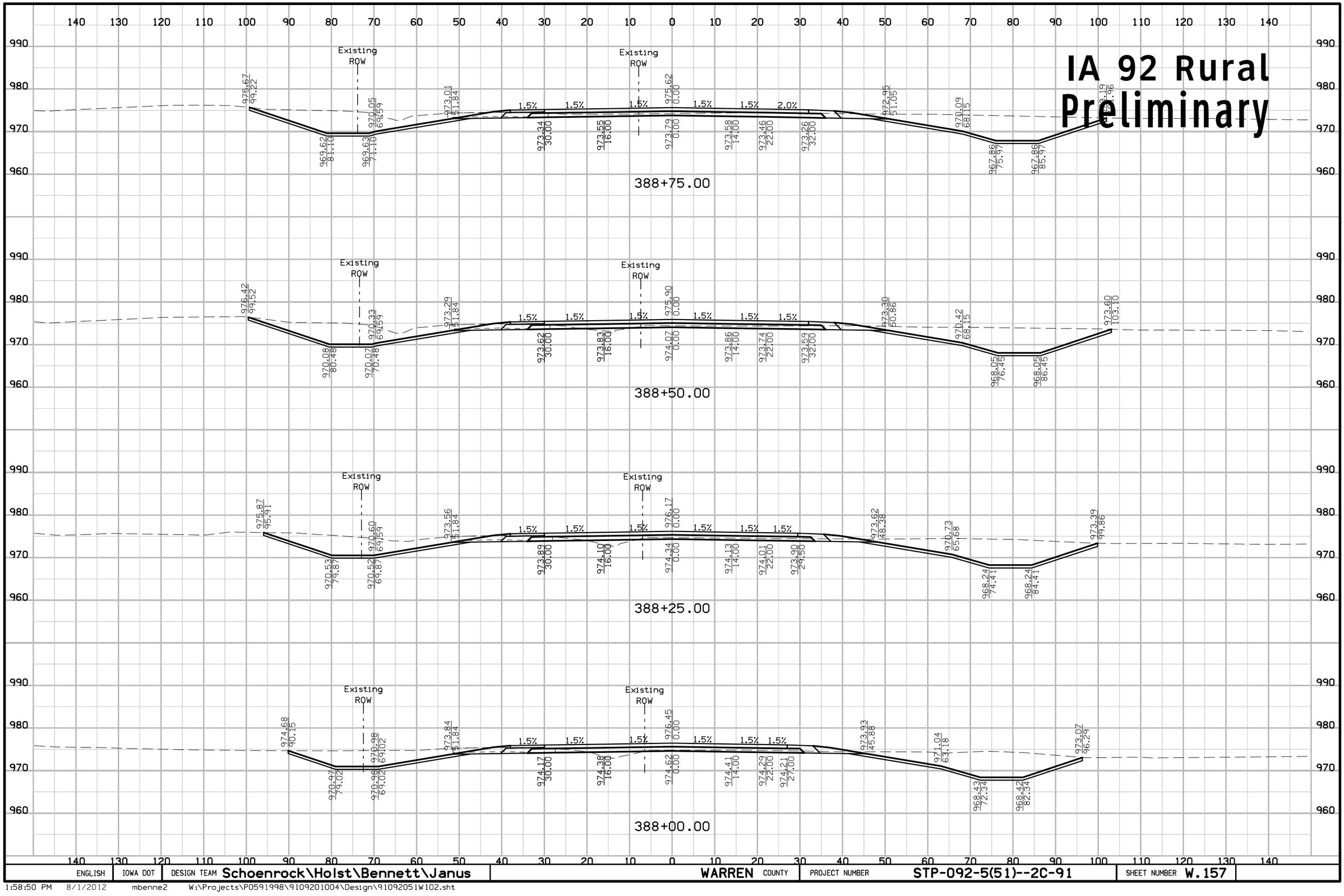
IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.156

1:58:50 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W102.sht

IA 92 Rural Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.157

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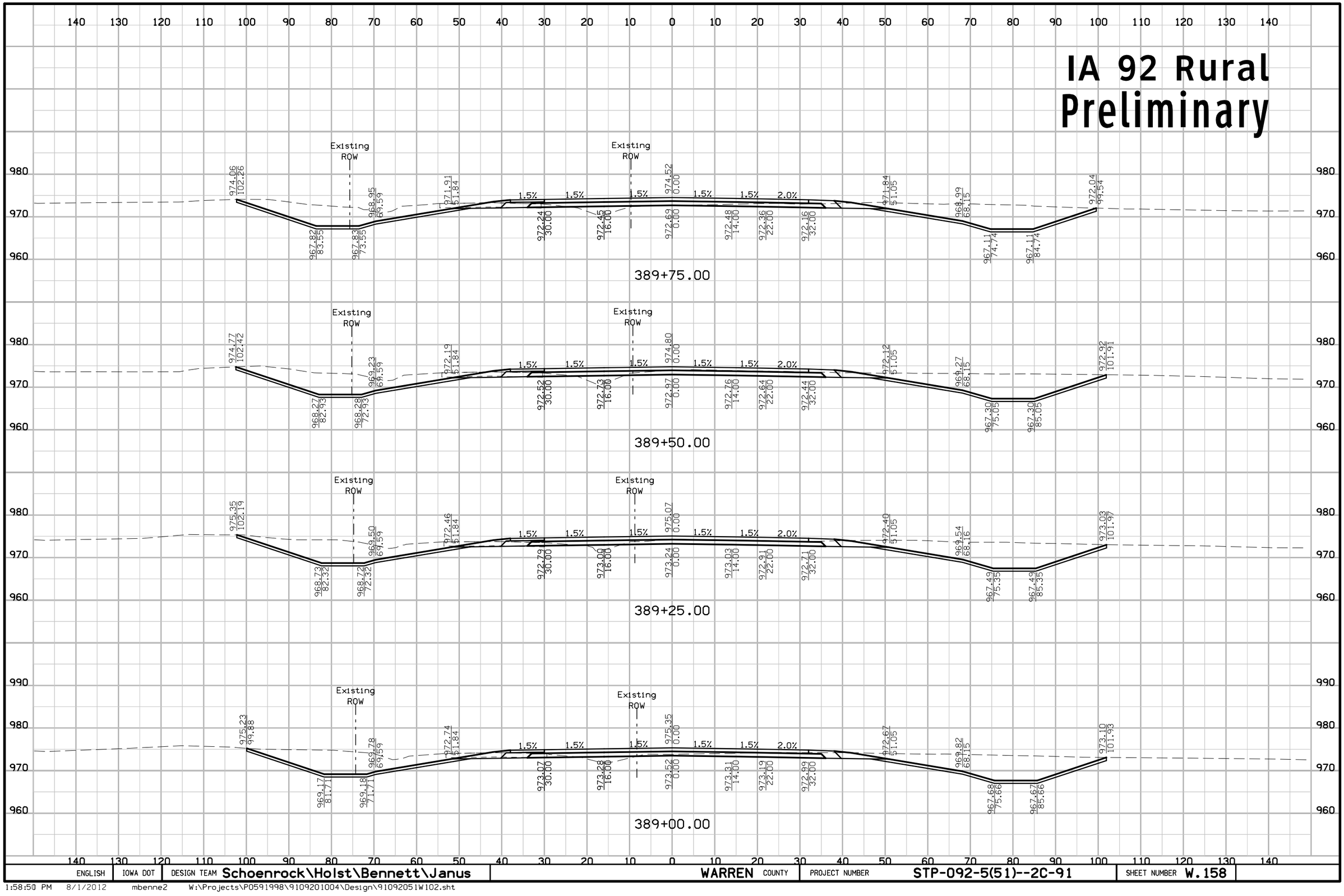
IA 92 Rural
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.158

1:58:50 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W102.sht

IA 92 Rural
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980
970
960

Existing ROW

390+50.00

969.65 94.25 | 966.93 86.06 | 968.11 71.91 | 966.92 76.06 | 971.35 52.46 | 971.69 30.00 | 1.5% | 971.90 16.00 | 1.5% | 973.97 0.00 | 972.14 0.00 | 1.5% | 971.92 14.00 | 2.0% | 971.81 22.00 | 971.64 35.84 | 968.90 52.87 | 966.74 60.11 | 966.74 70.11 | 969.96 79.78

390+25.00

973.14 101.46 | 967.38 84.16 | 968.68 69.59 | 967.37 74.16 | 971.64 51.84 | 971.97 30.00 | 1.5% | 972.18 16.00 | 1.5% | 974.25 0.00 | 972.42 0.00 | 1.5% | 972.21 14.00 | 1.5% | 972.09 22.00 | 2.0% | 971.89 32.00 | 971.57 51.05 | 966.93 74.43 | 966.92 84.43 | 970.74 95.89

390+00.00

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.159

1:58:51 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W102.sht

IA 92 Urban
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980 / 970

973.84 16.00 — 972.60 0.00

391+50.00

973.11 16.00 — 972.87 0.00

391+25.00

973.38 15.33 — 973.15 0.00

391+00.00

973.10 16.00 — 973.14 14.00

390+75.00

973.38 16.00 — ExistROW

390+50.00

ExistROW — 973.65 16.00 — ExistROW — 973.69 14.00

390+25.00

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.160

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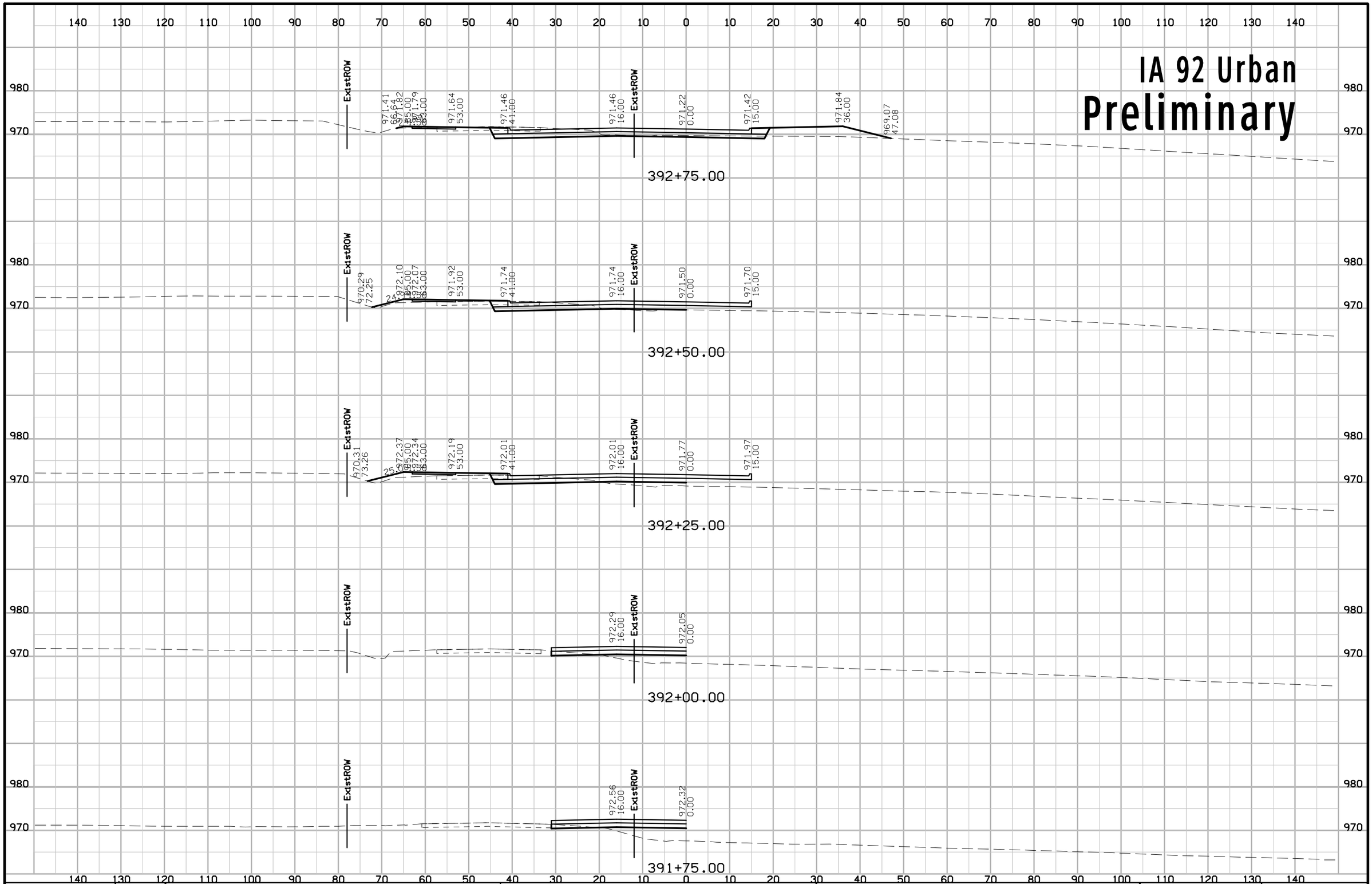
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.161

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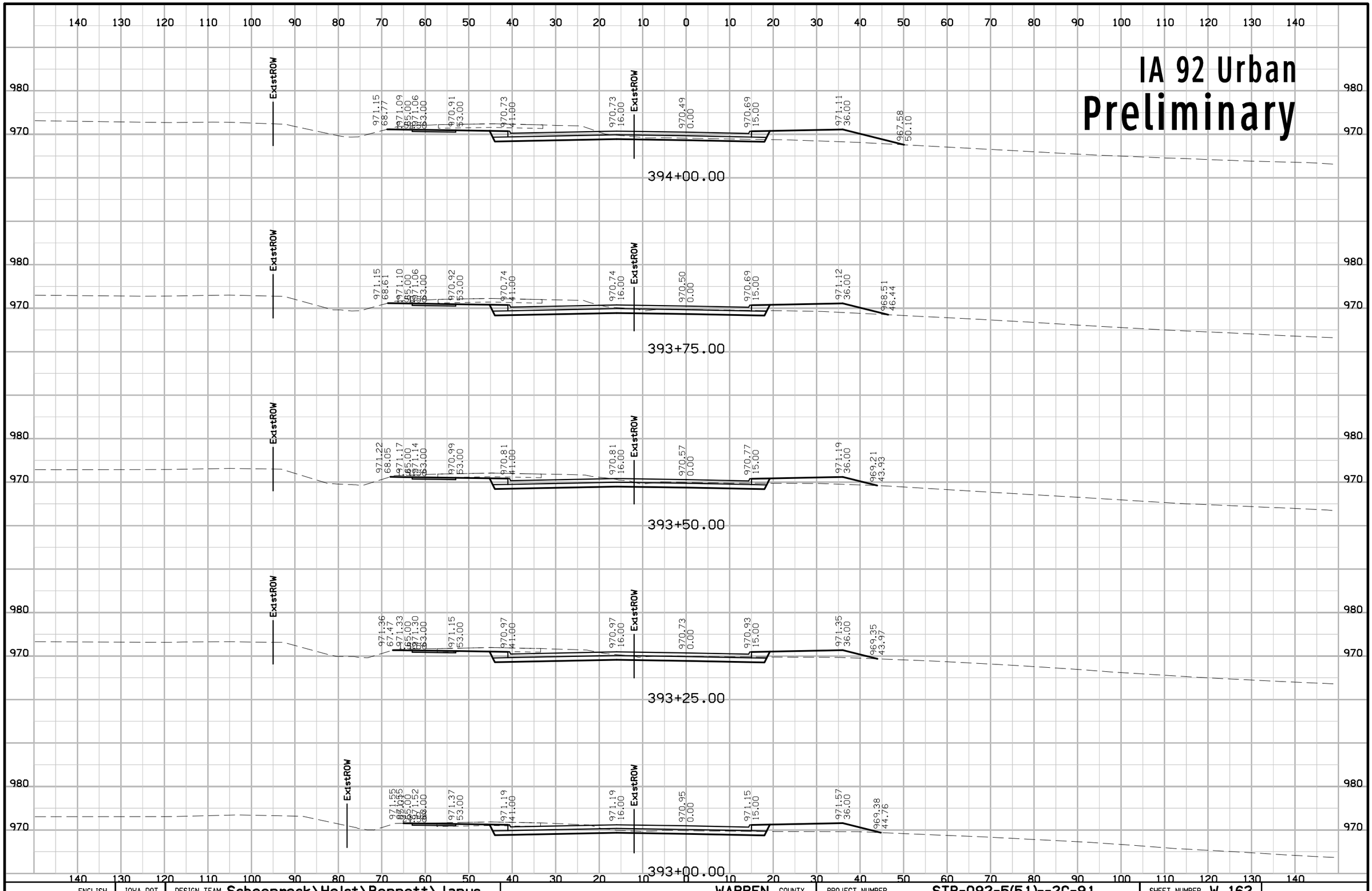
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.162

1:58:56 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W201_Urban.sht

IA 92 Urban
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980
970

971.04 99.99
ExistROW
968.75 93.12
968.75 83.12
971.77 65.00
971.74 63.00
971.59 53.00
971.41 41.00
971.41 16.00
ExistROW
971.17 0.00
971.37 15.00
971.79 36.00
965.65 60.54

395+25.00

971.74 98.61
ExistROW
968.82 89.86
968.83 79.86
971.61 65.00
971.58 63.00
971.43 53.00
971.25 41.00
971.25 16.00
ExistROW
971.01 0.00
971.21 15.00
971.63 36.00
964.41 64.89

395+00.00

970.92 96.38
ExistROW
968.90 90.30
968.90 80.30
971.45 65.00
971.42 63.00
971.27 53.00
971.09 41.00
971.09 16.00
ExistROW
970.85 0.00
971.05 15.00
971.47 36.00
965.71 59.07

394+75.00

ExistROW
971.35 68.70
971.29 65.00
971.26 63.00
971.11 53.00
970.93 41.00
970.93 16.00
ExistROW
970.69 0.00
970.89 15.00
971.31 36.00
965.77 58.16

394+50.00

ExistROW
971.21 68.76
971.15 65.00
971.12 63.00
970.97 53.00
970.79 41.00
970.79 16.00
ExistROW
970.55 0.00
970.75 15.00
971.17 36.00
966.33 55.38

394+25.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.163

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IA 92 Urban
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980 970

ExistROW

972.29 67.74 | 972.25 65.00 | 972.22 63.00 | 972.07 53.00 | 971.89 41.00 | 971.89 16.00 | ExistROW | 971.65 0.00 | 971.85 15.00 | 972.27 36.00 | 968.70 50.28

396+00.00

ExistROW

972.13 67.59 | 972.09 65.00 | 972.06 63.00 | 971.91 53.00 | 971.73 41.00 | 971.73 16.00 | ExistROW | 971.49 0.00 | 971.69 15.00 | 972.11 36.00 | 967.73 53.55

395+75.00

ExistROW

971.98 68.10 | 971.93 65.00 | 971.90 63.00 | 971.75 53.00 | 971.57 41.00 | 971.57 16.00 | ExistROW | 971.33 0.00 | 971.53 15.00 | 971.95 36.00 | 966.65 57.18

395+50.00

ExistROW

971.93 68.27 | 971.88 65.00 | 971.85 63.00 | 971.70 53.00 | 971.52 41.00 | 971.52 16.00 | ExistROW | 971.28 0.00 | 971.48 15.00 | 971.90 36.00 | 966.36 58.18

395+42.38

ExistROW

971.93 68.95 | 971.88 65.00 | 971.85 63.00 | 971.70 53.00 | 971.52 41.00 | 971.52 16.00 | ExistROW | 971.27 0.00 | 971.41 17.19 | 971.76 41.26 | 964.45 75.05

Pattern line follows existing culverts and draws

395+39.78

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.164

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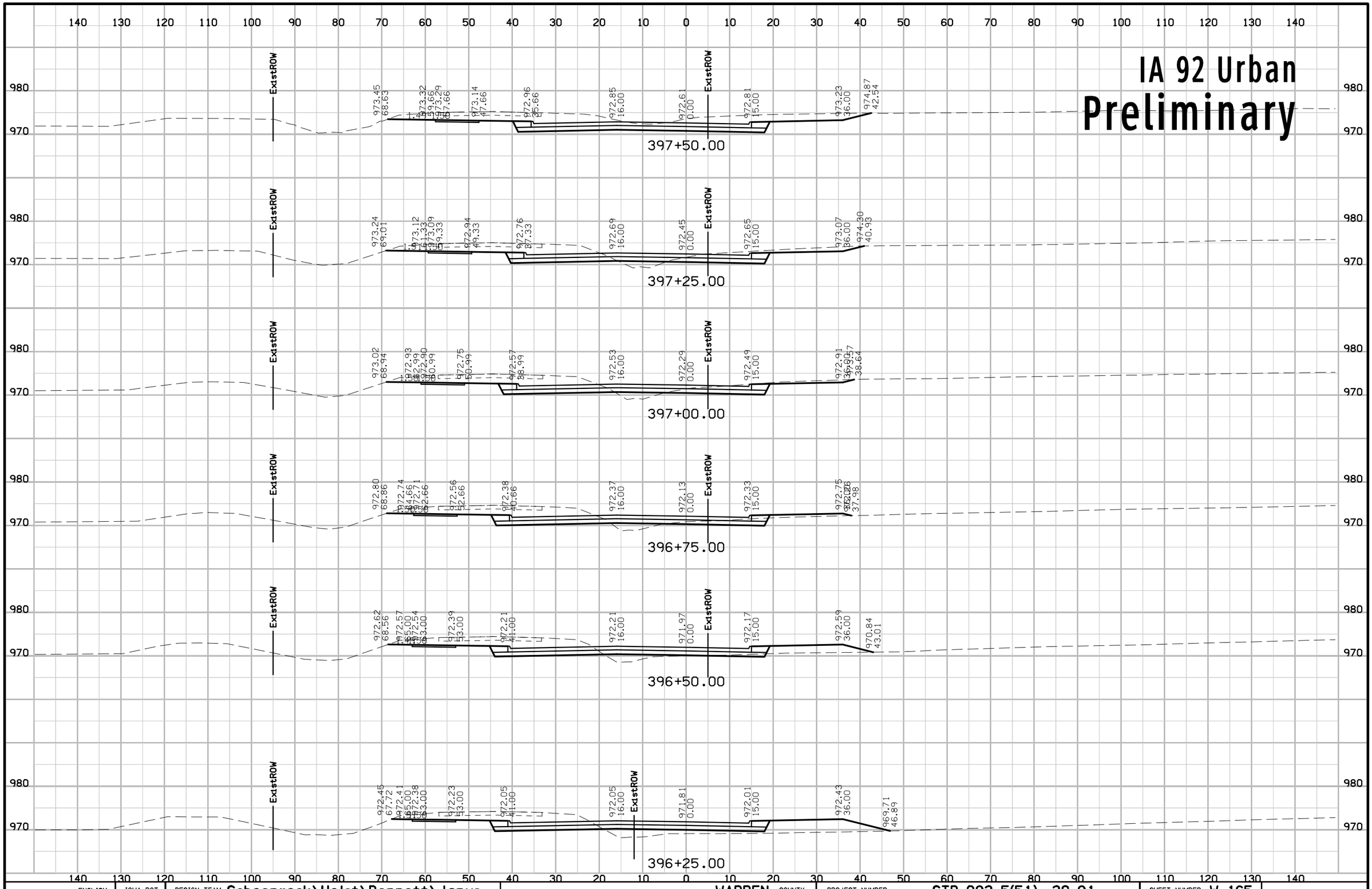
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.165

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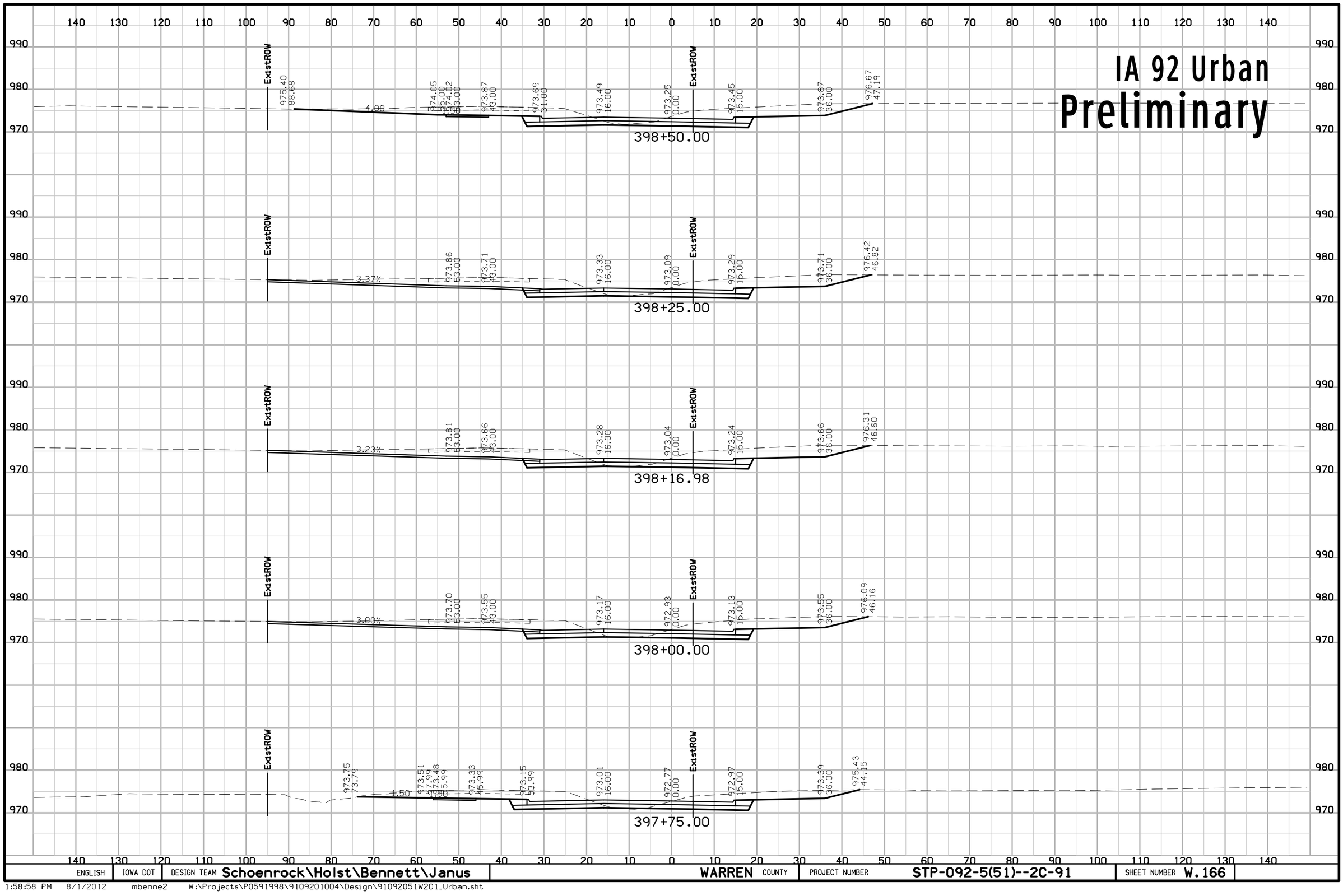
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.166

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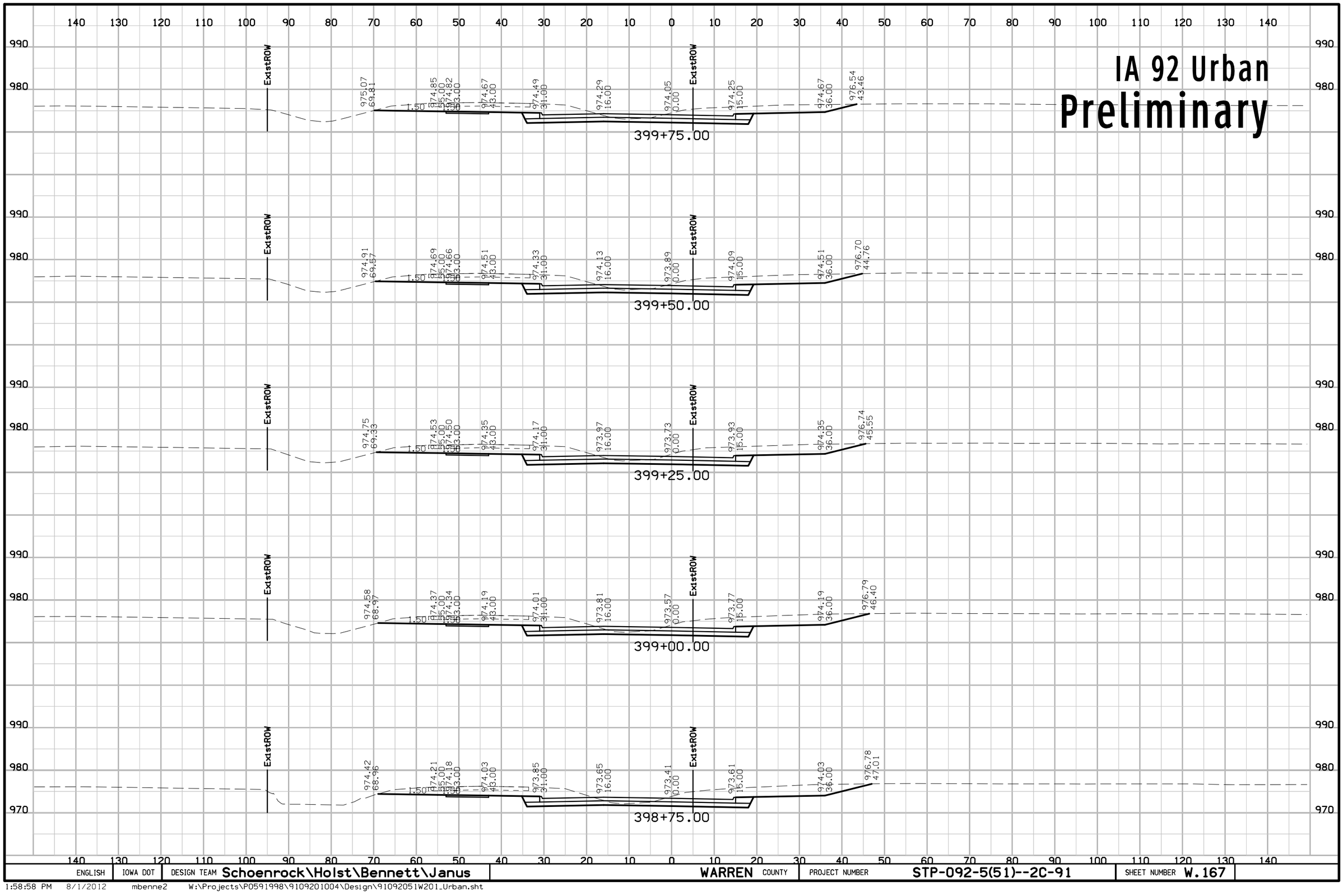
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.167

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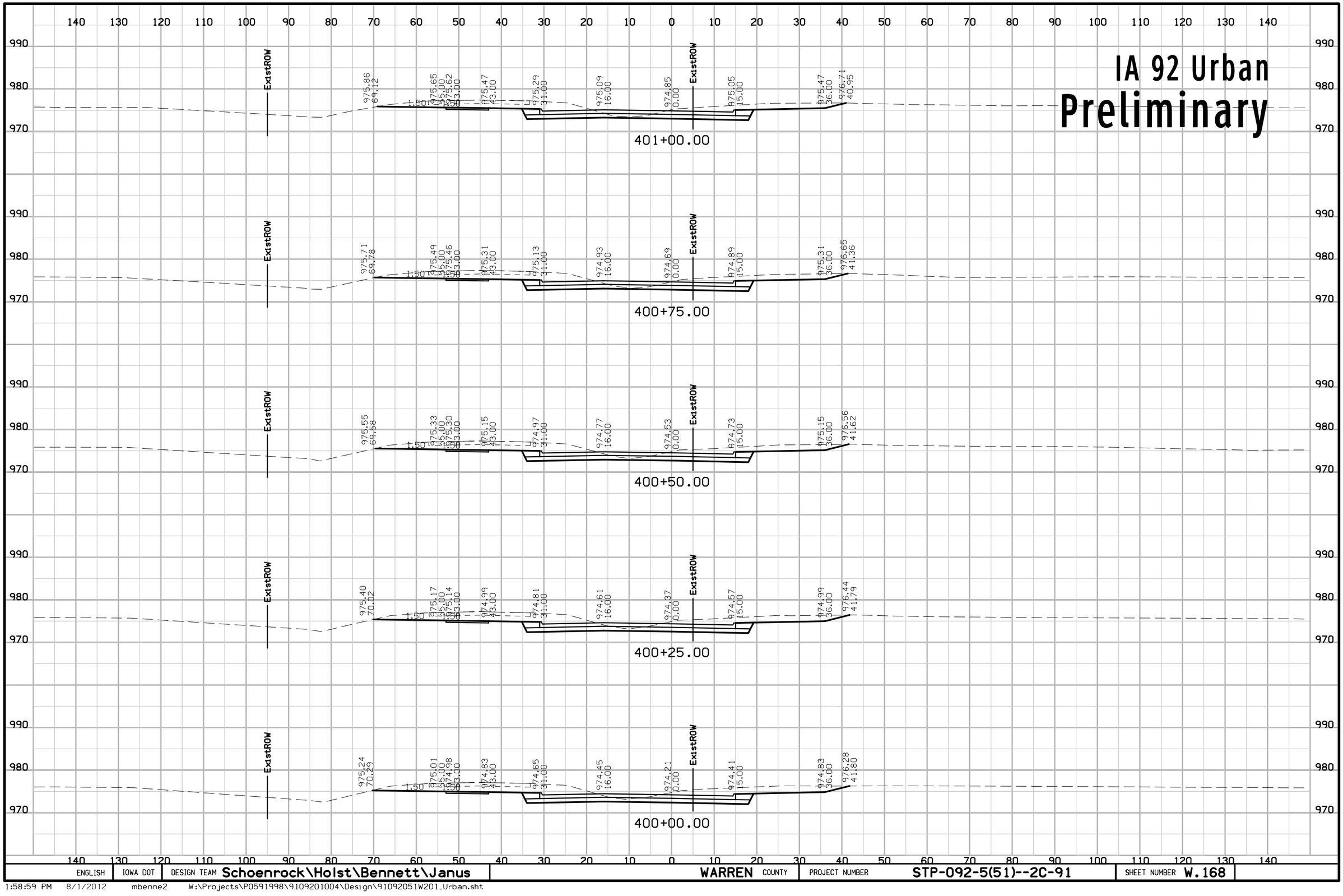
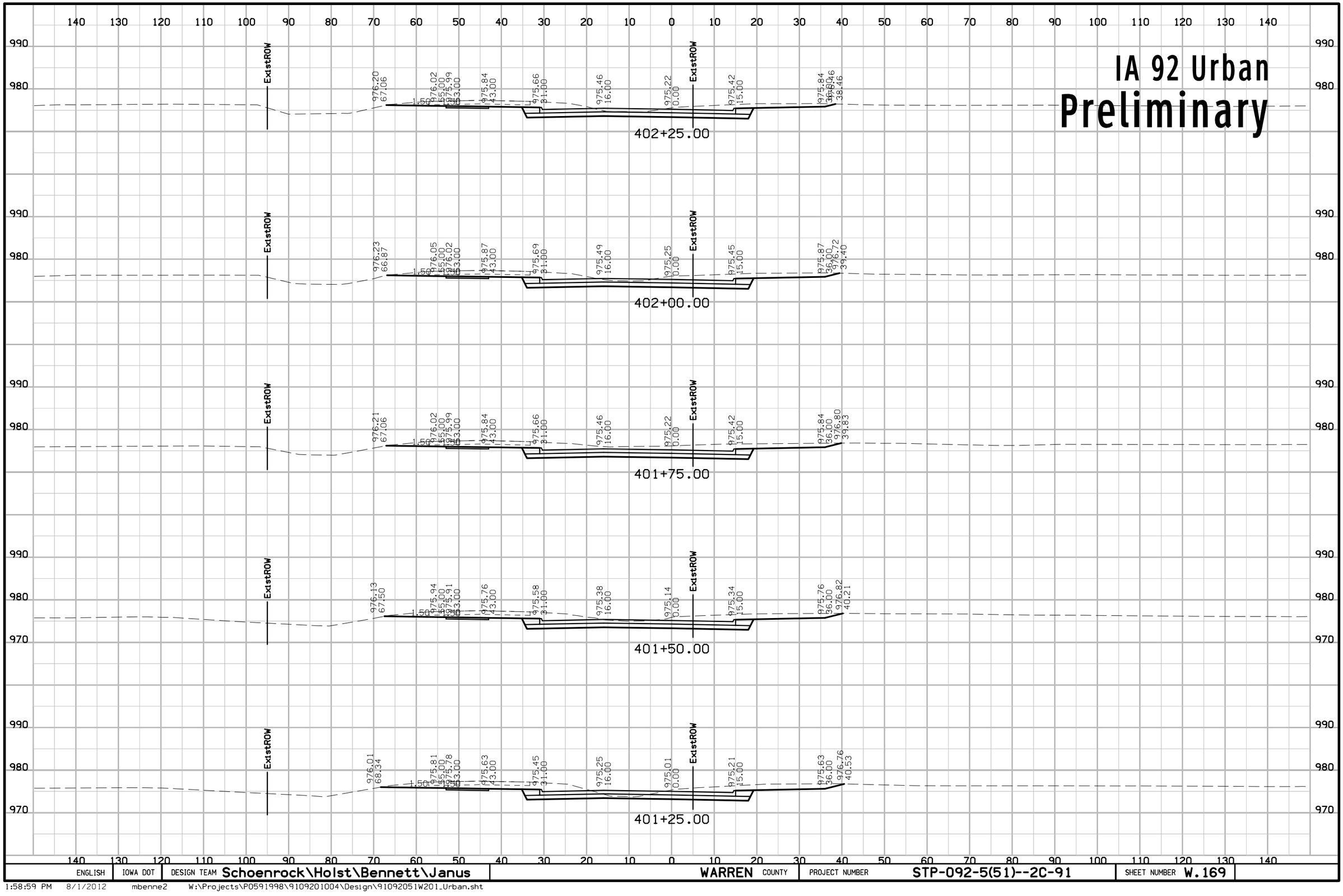
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.168

IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.169

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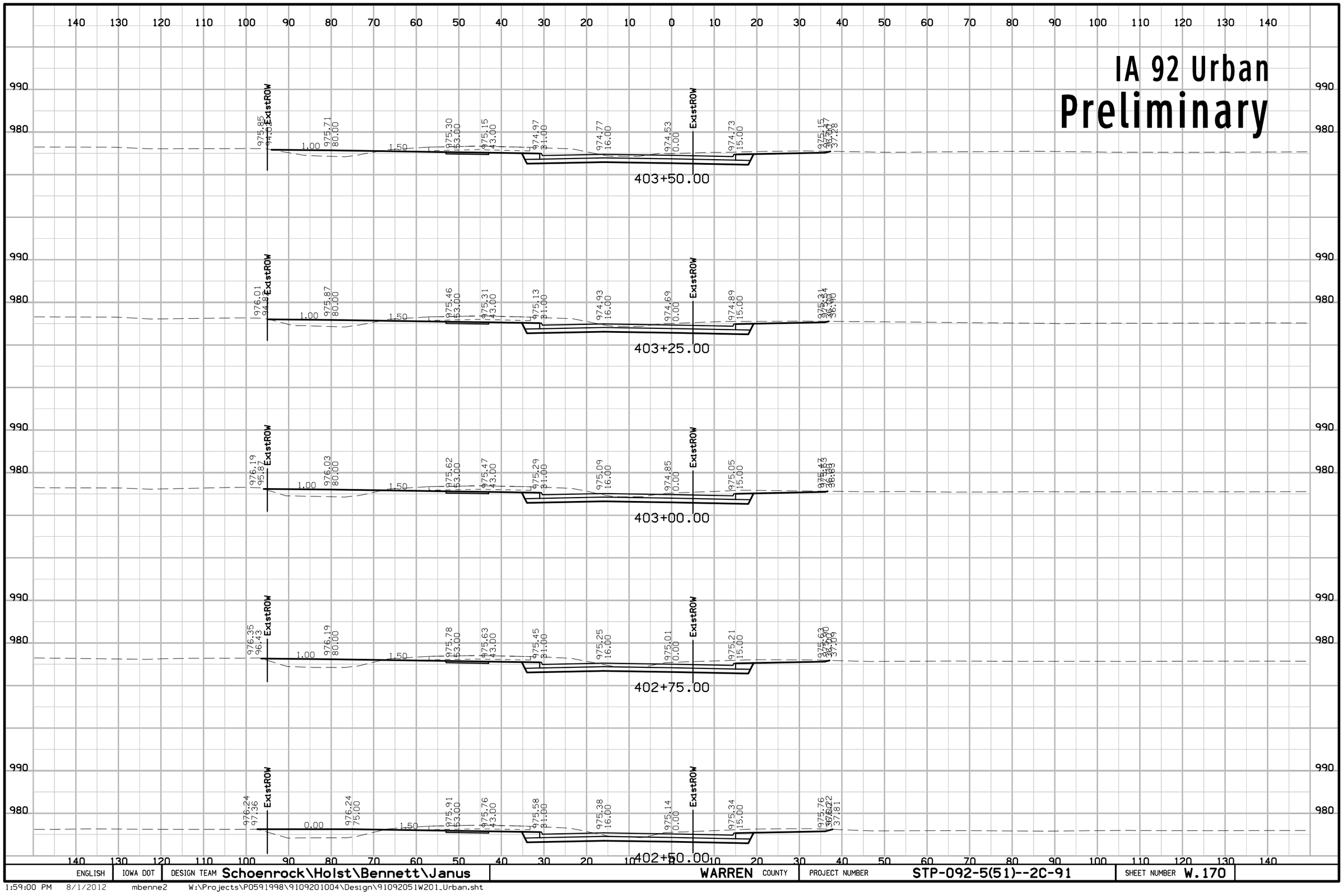
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.170

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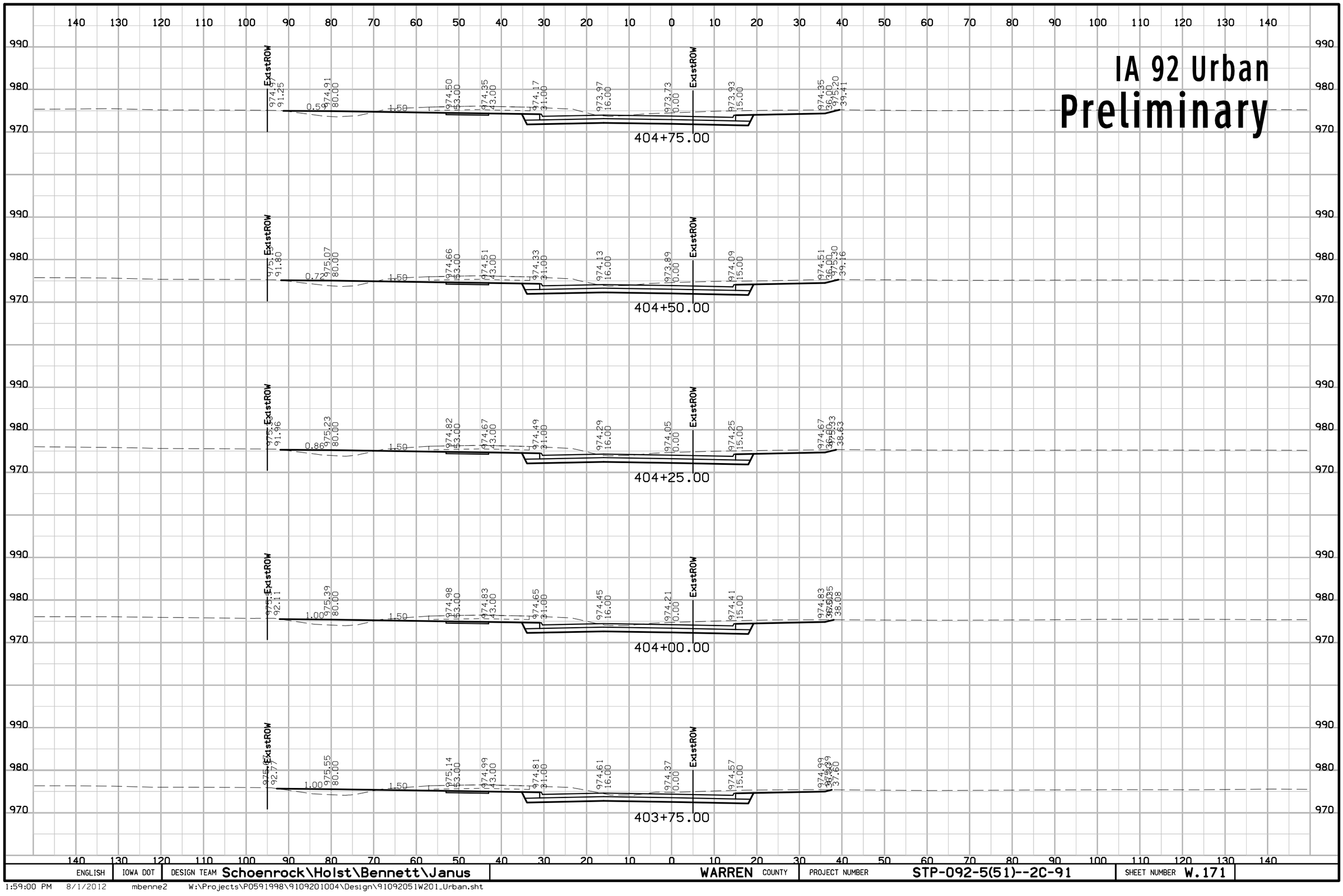
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.171

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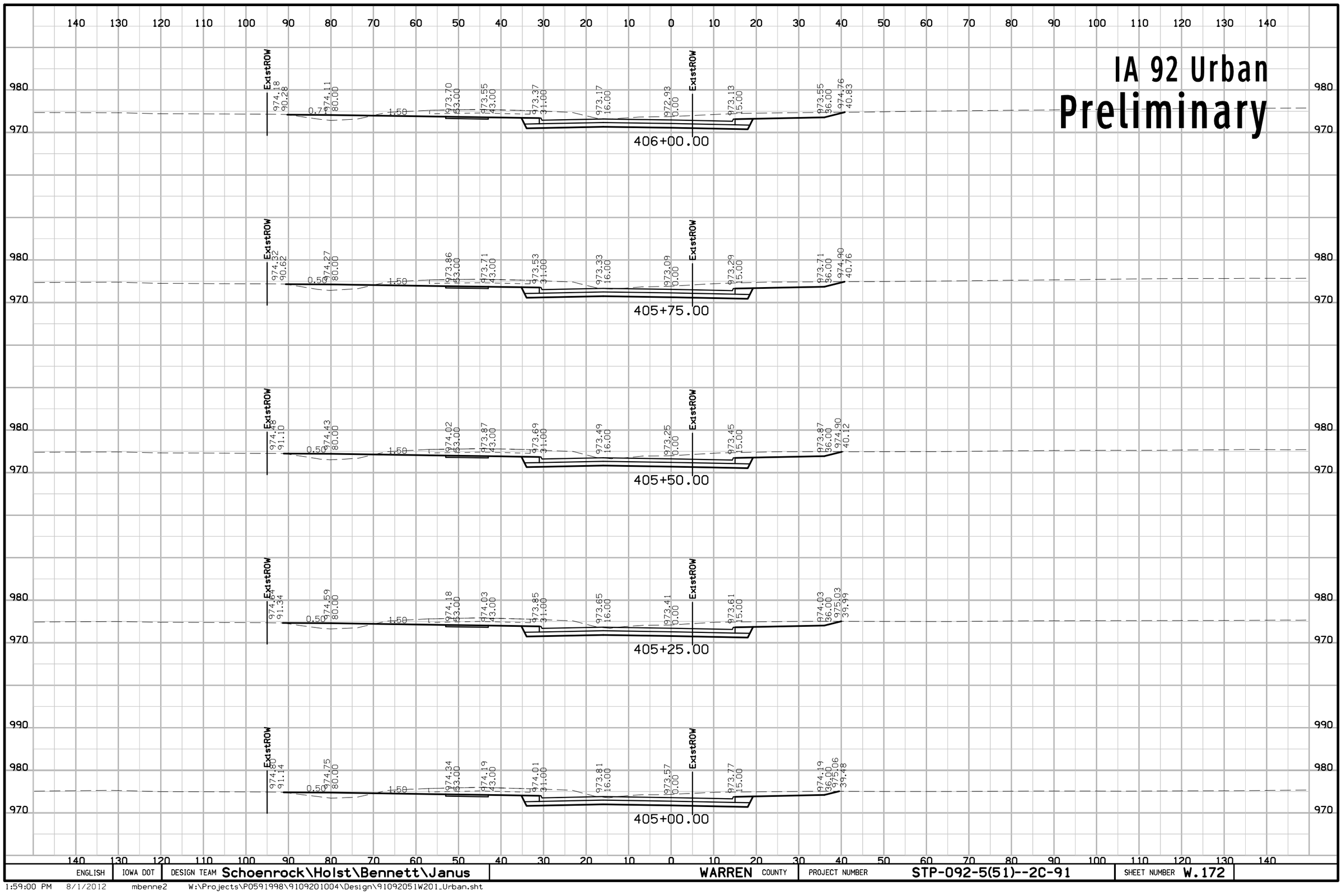
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.172

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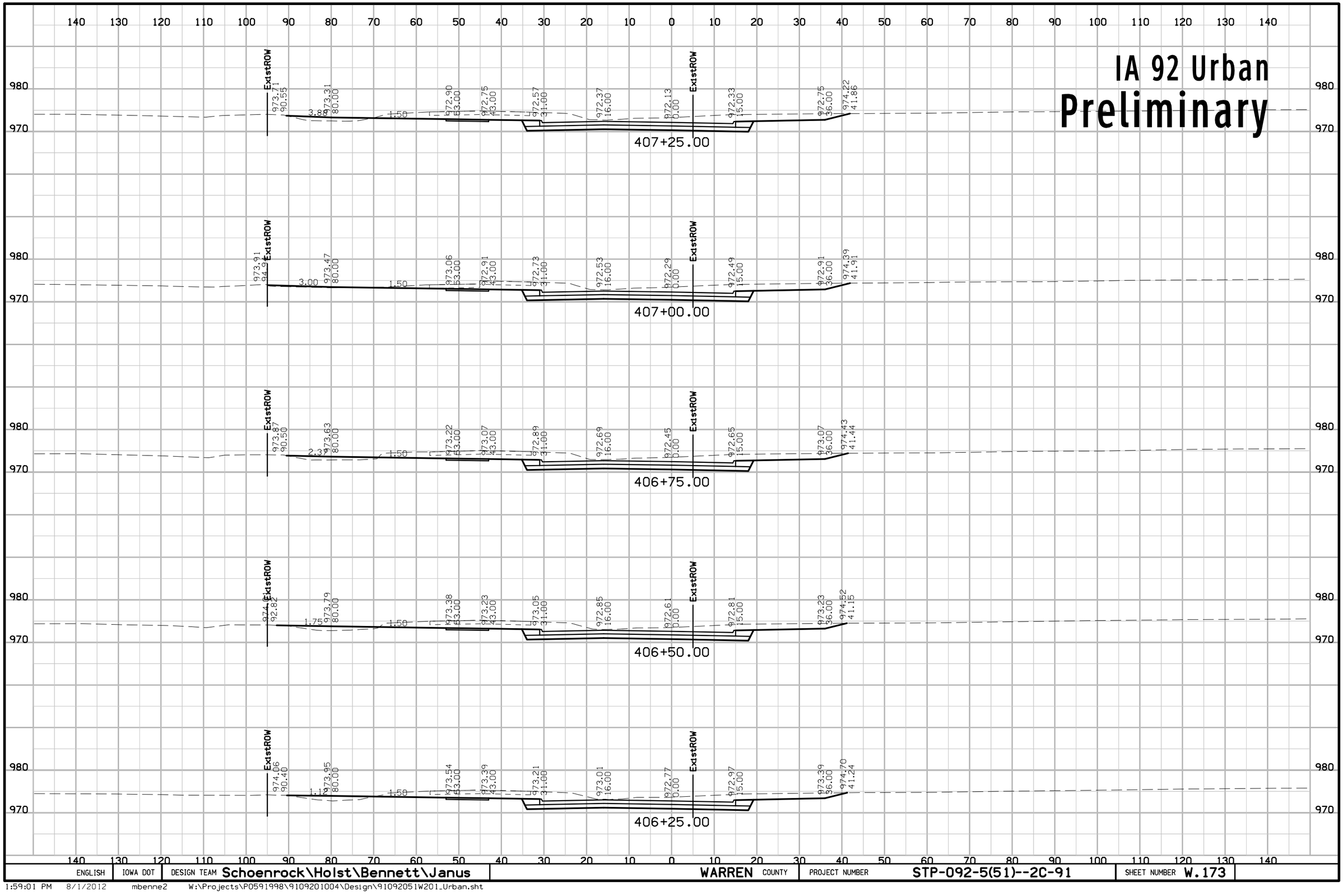
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.173

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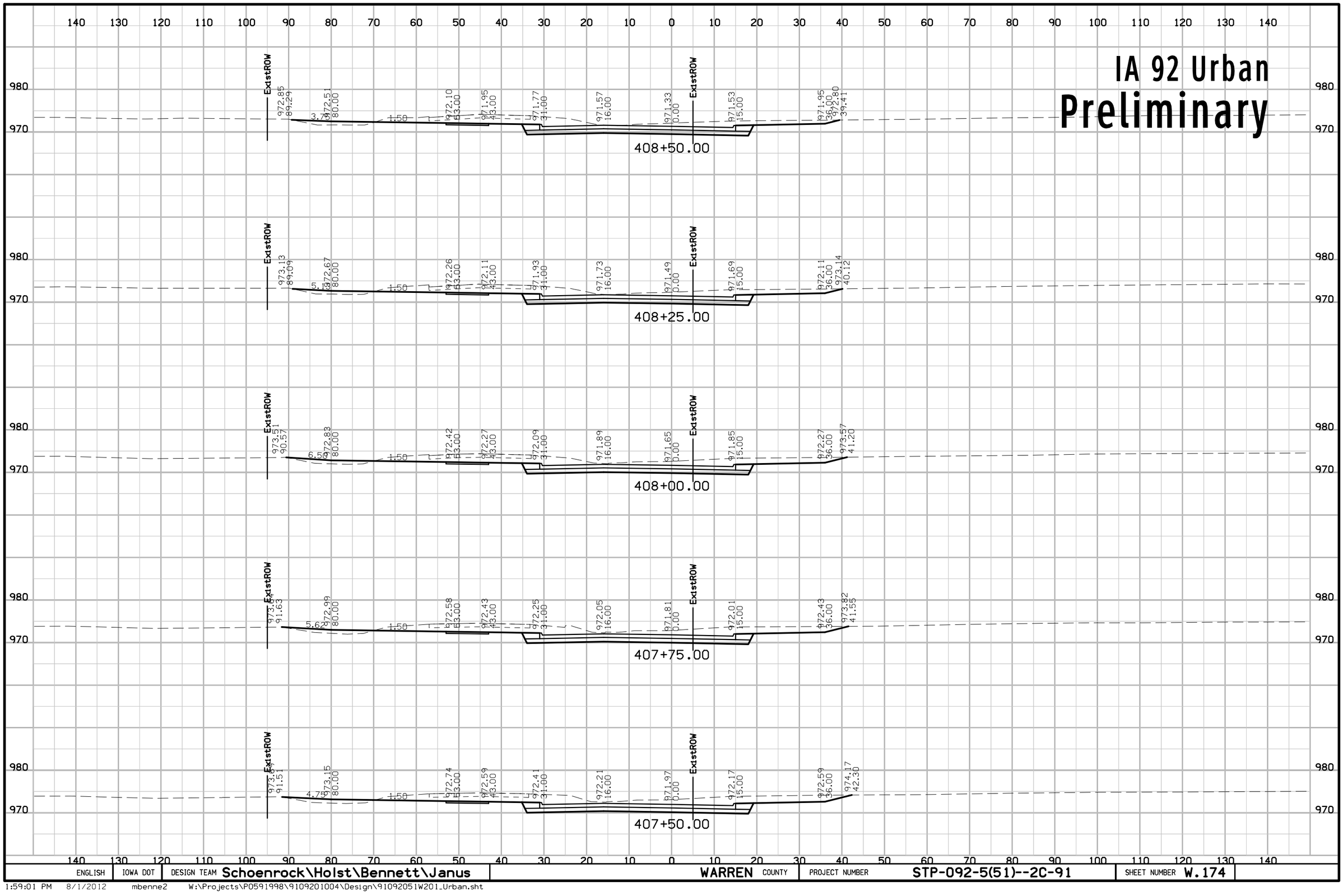
IA 92 Urban
Preliminary



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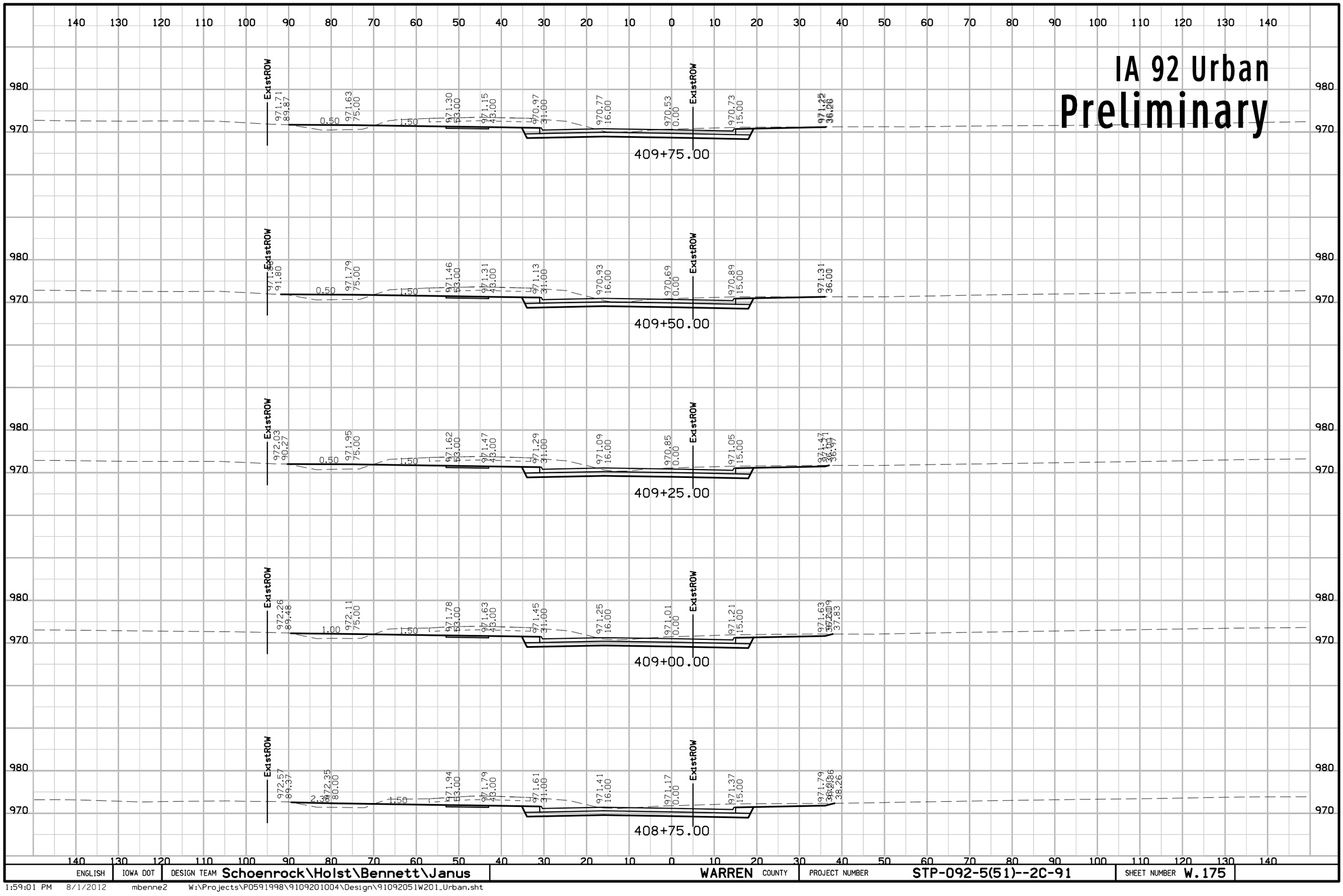
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.175

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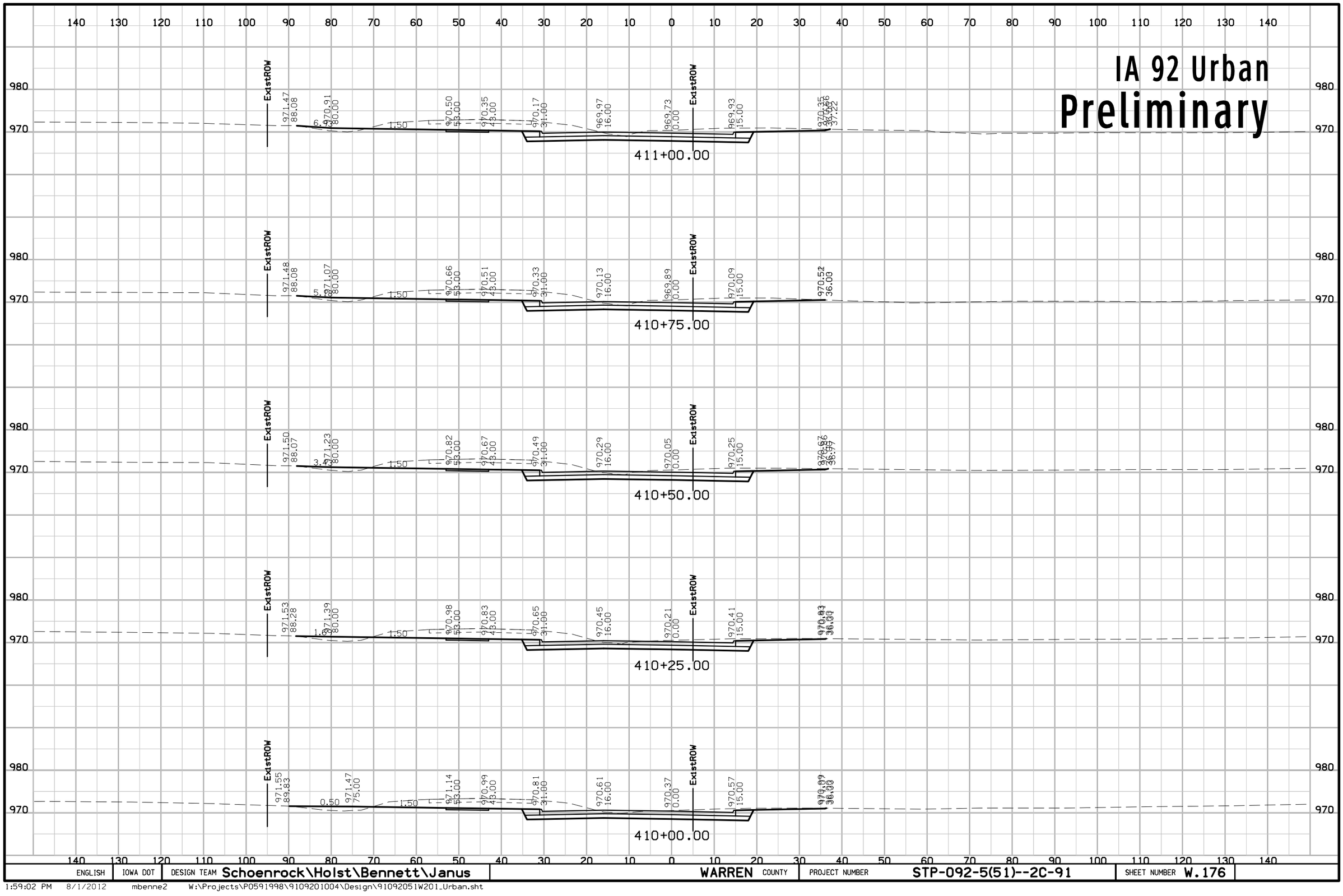
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.176

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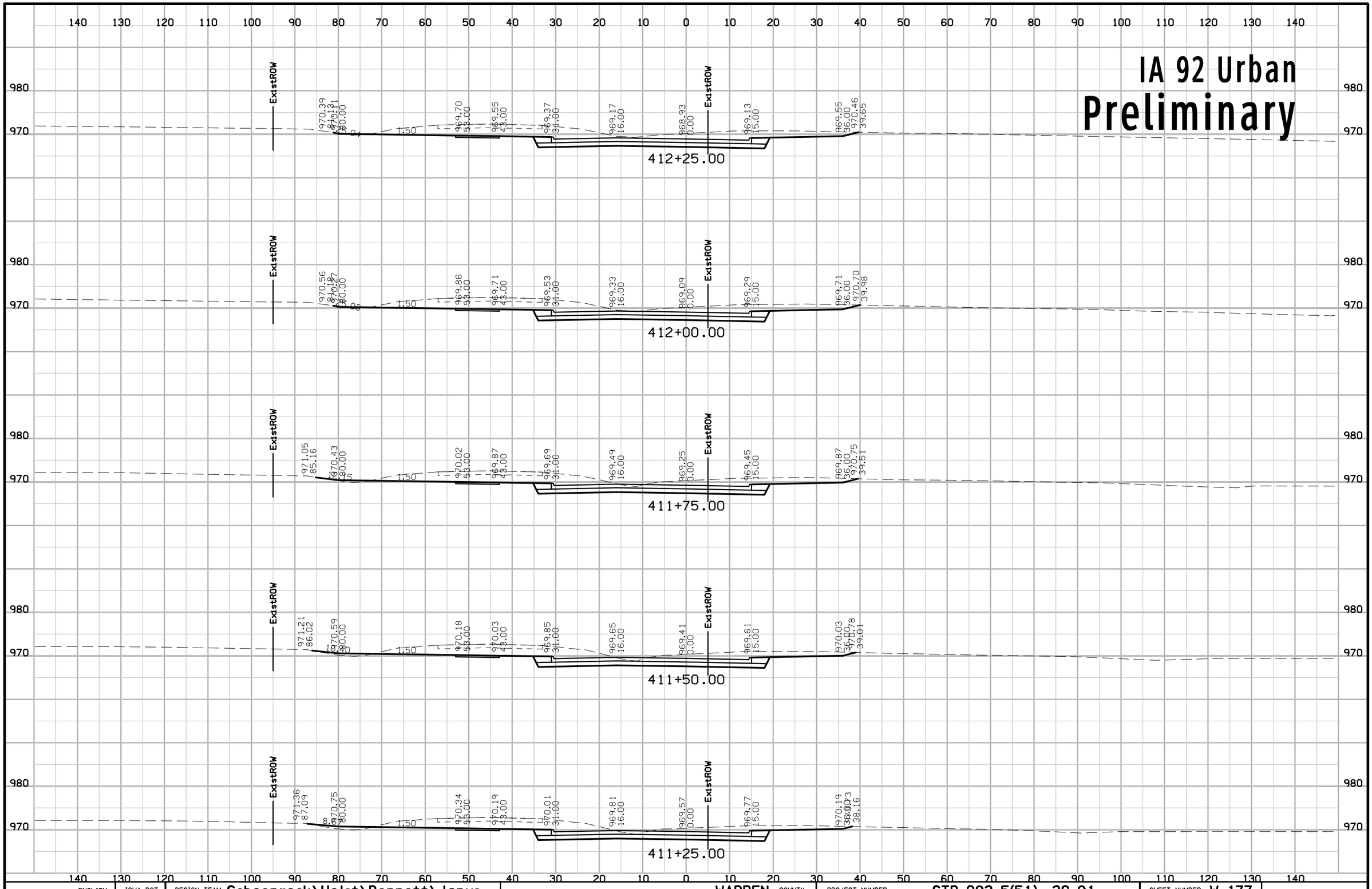
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.177

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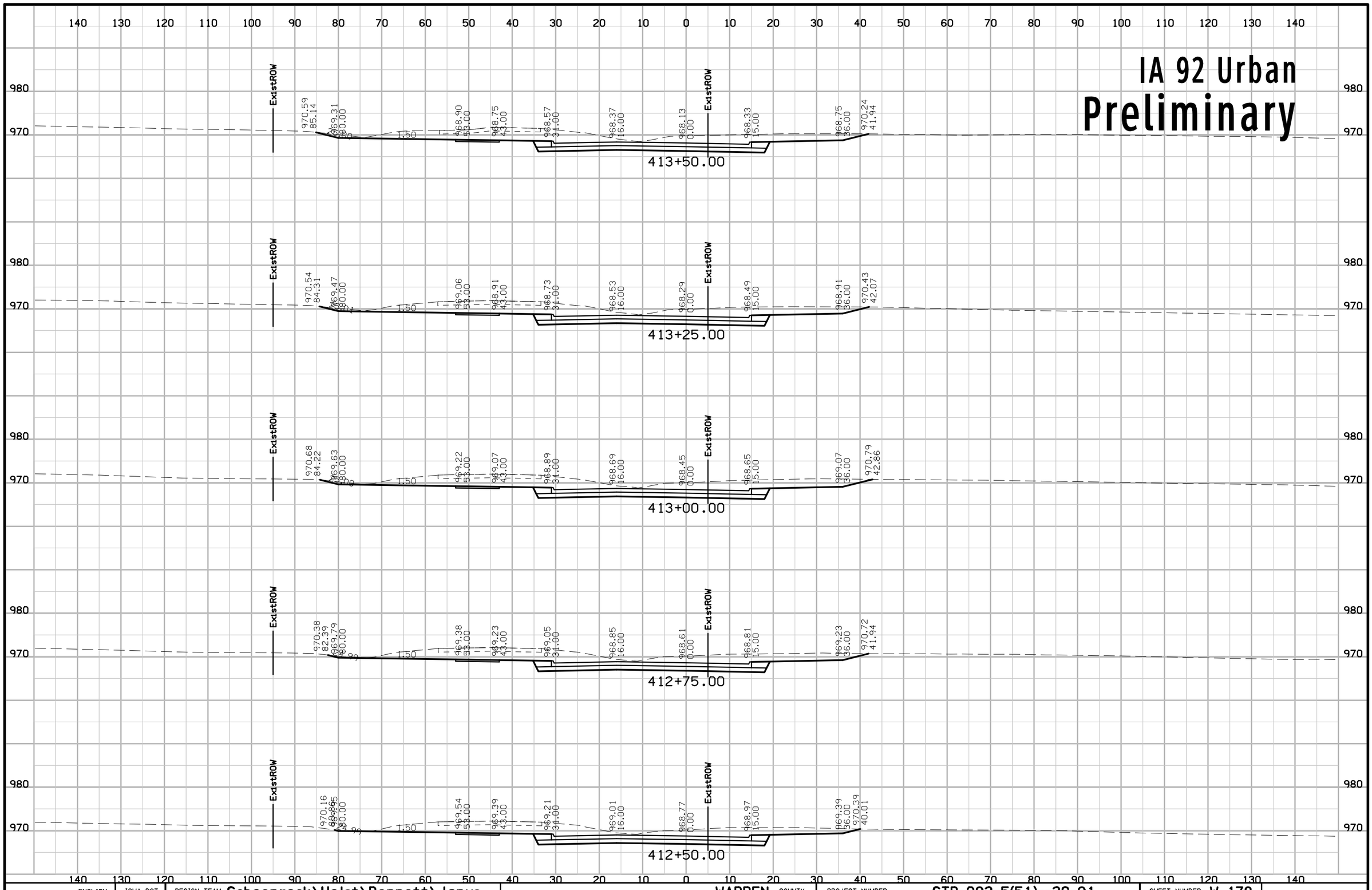
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.178

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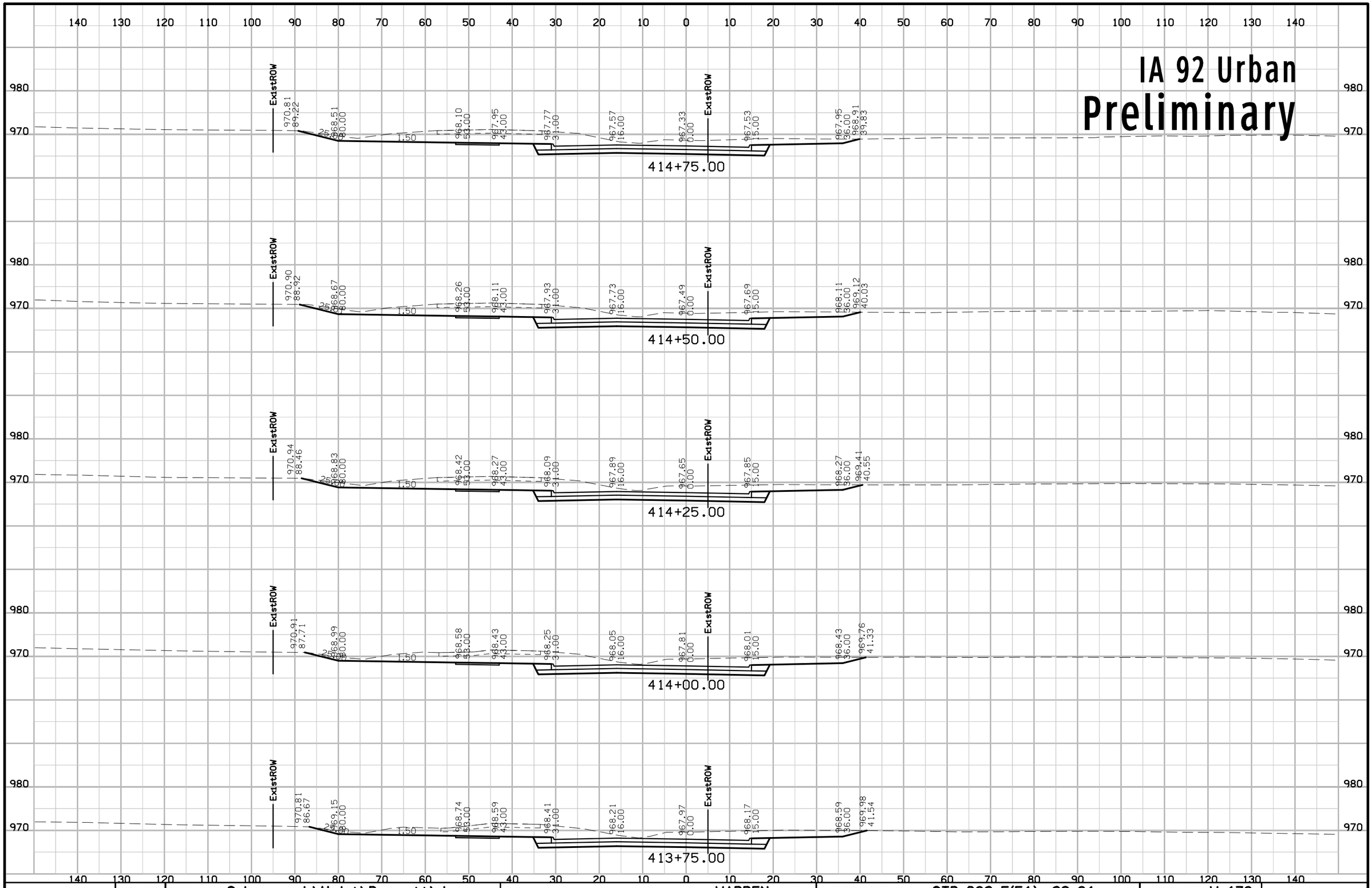
IA 92 Urban
Preliminary



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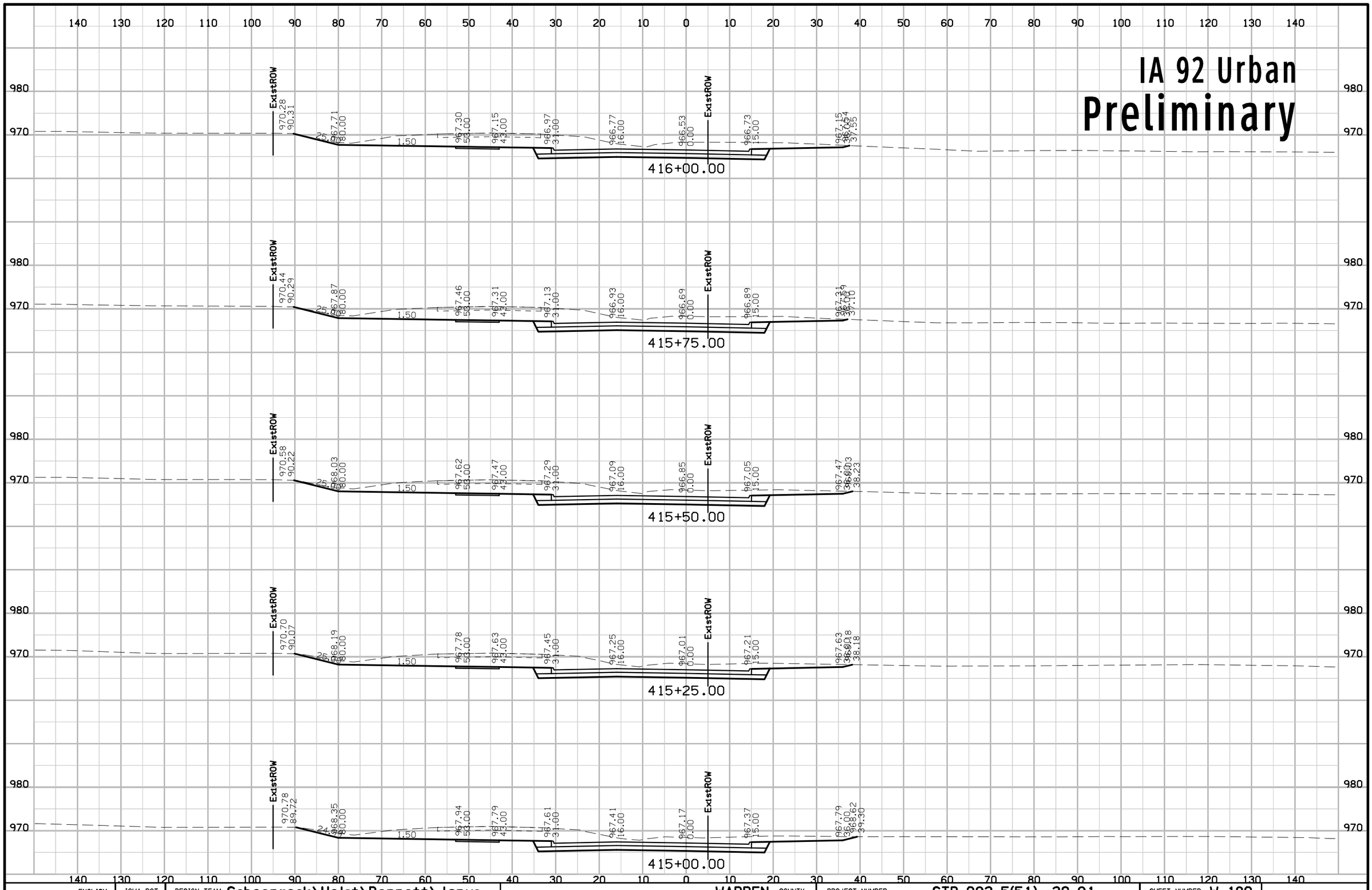
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.180

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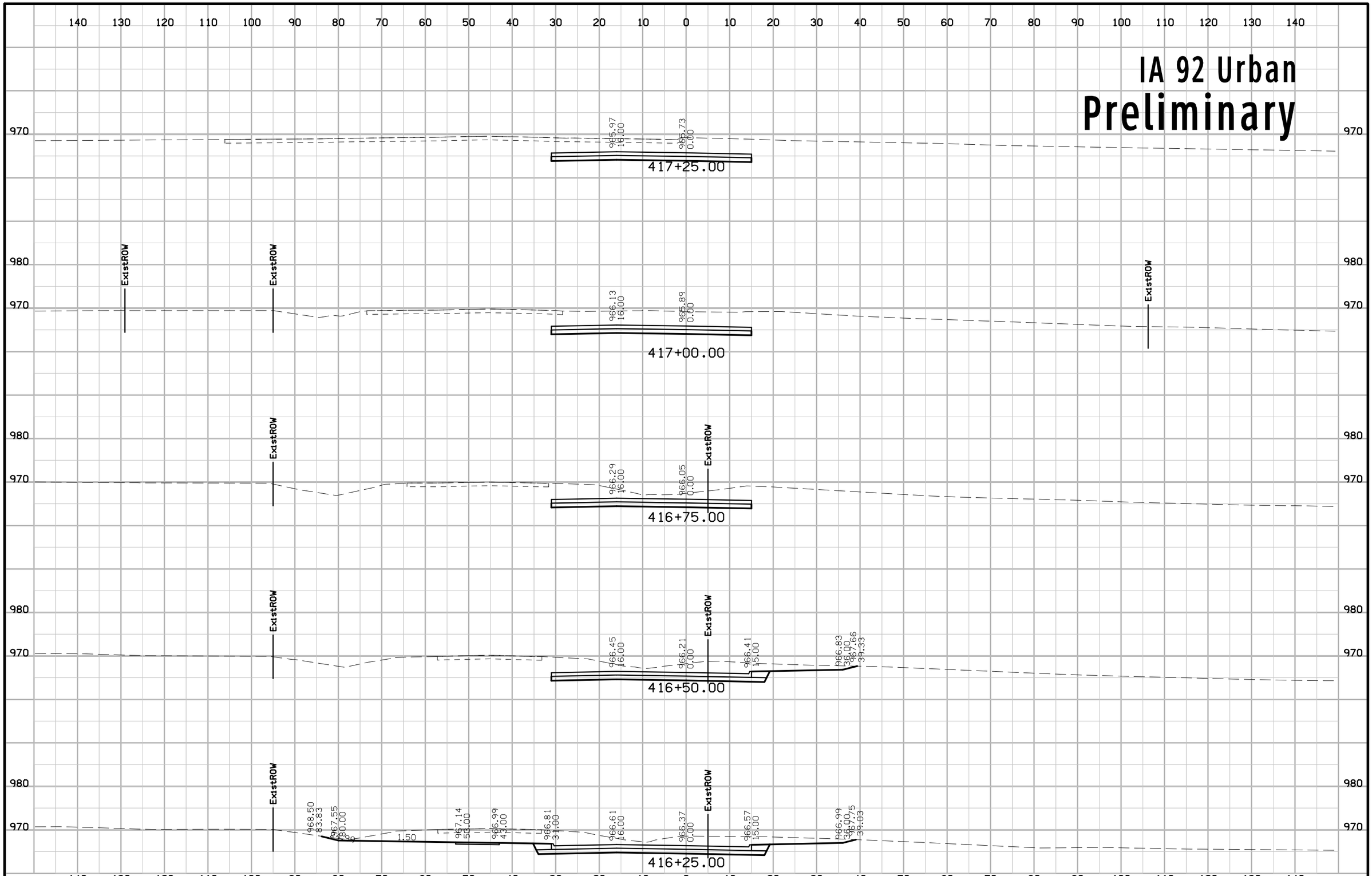

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.181

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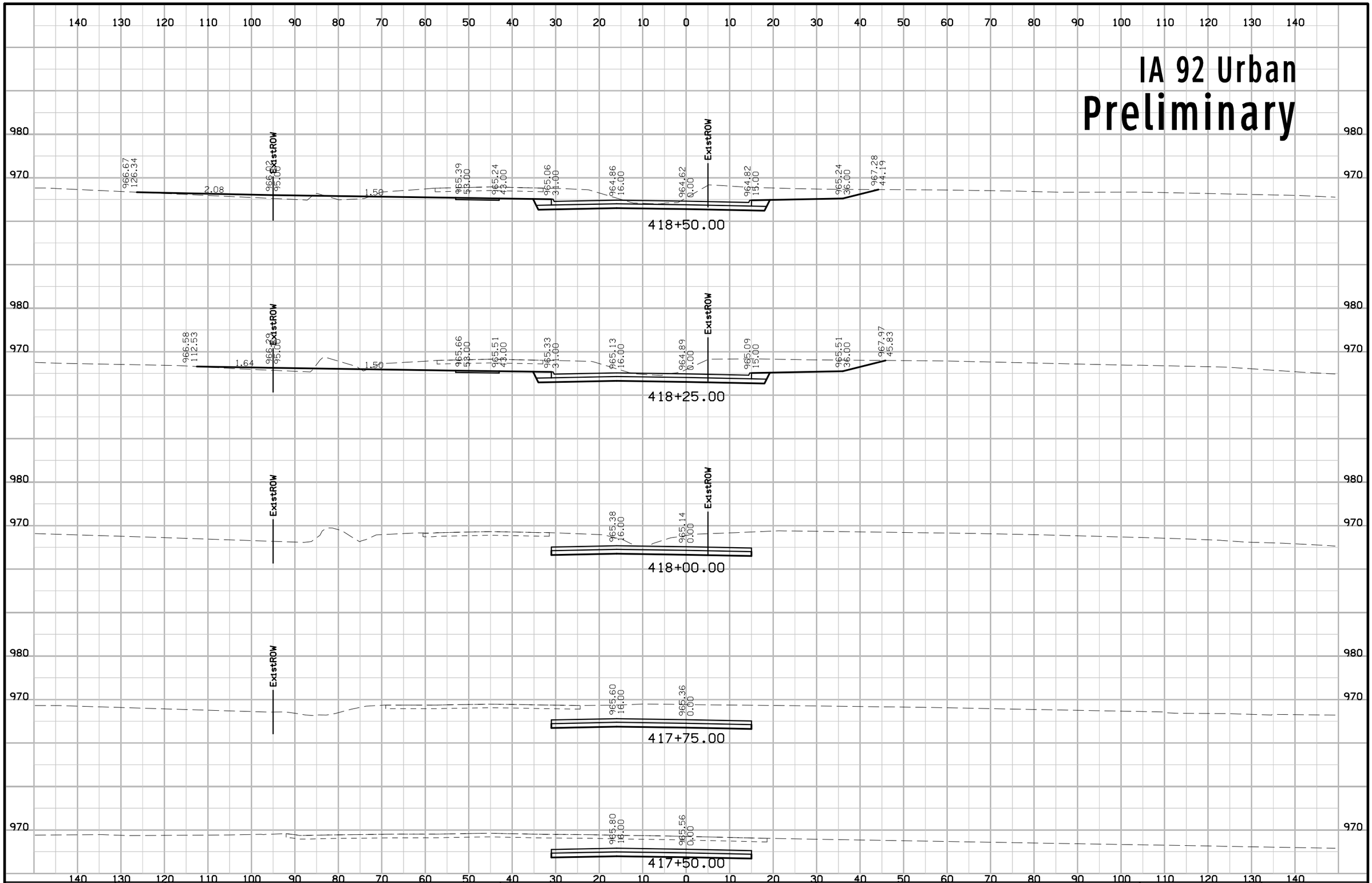
IA 92 Urban
Preliminary



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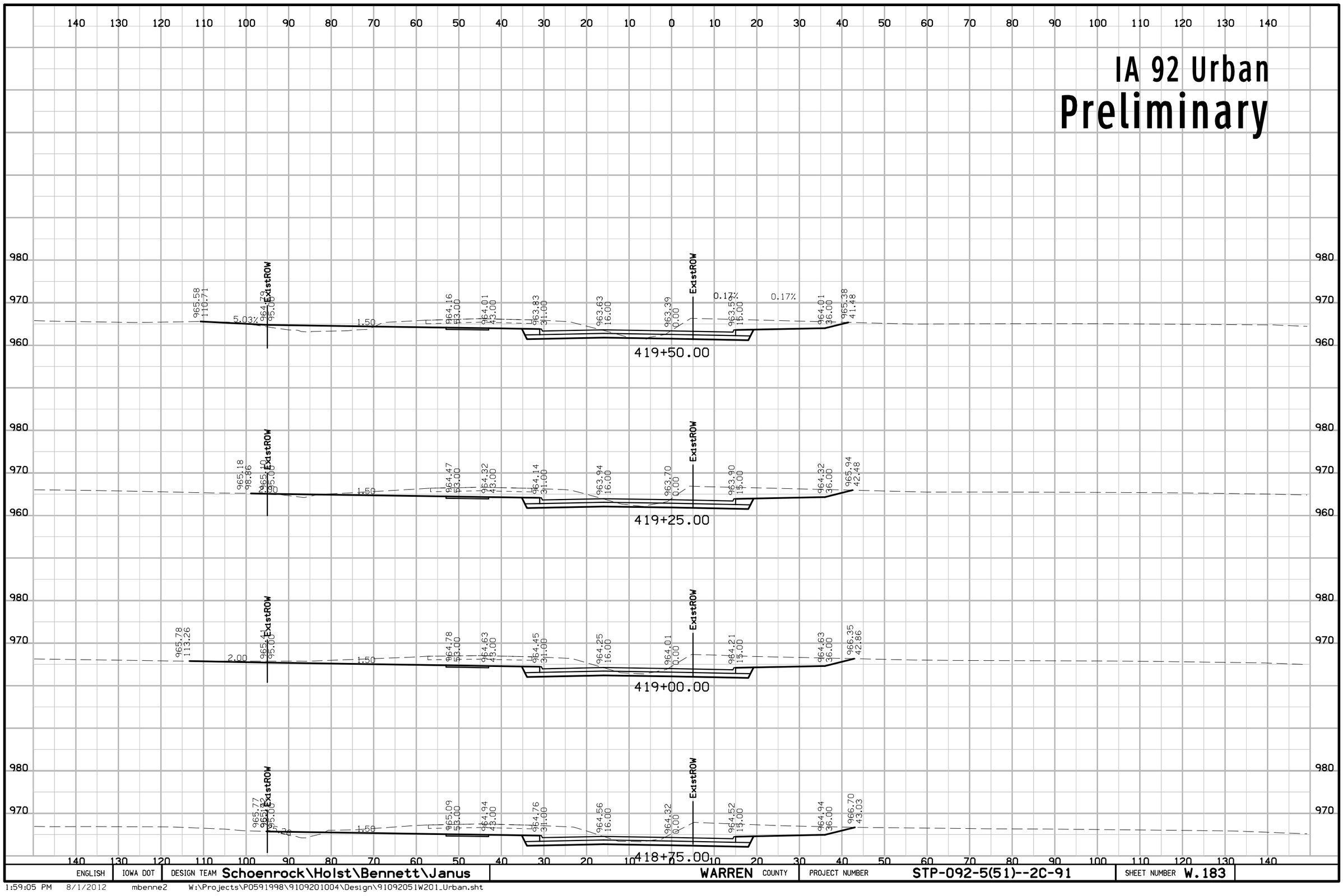
IA 92 Urban
Preliminary



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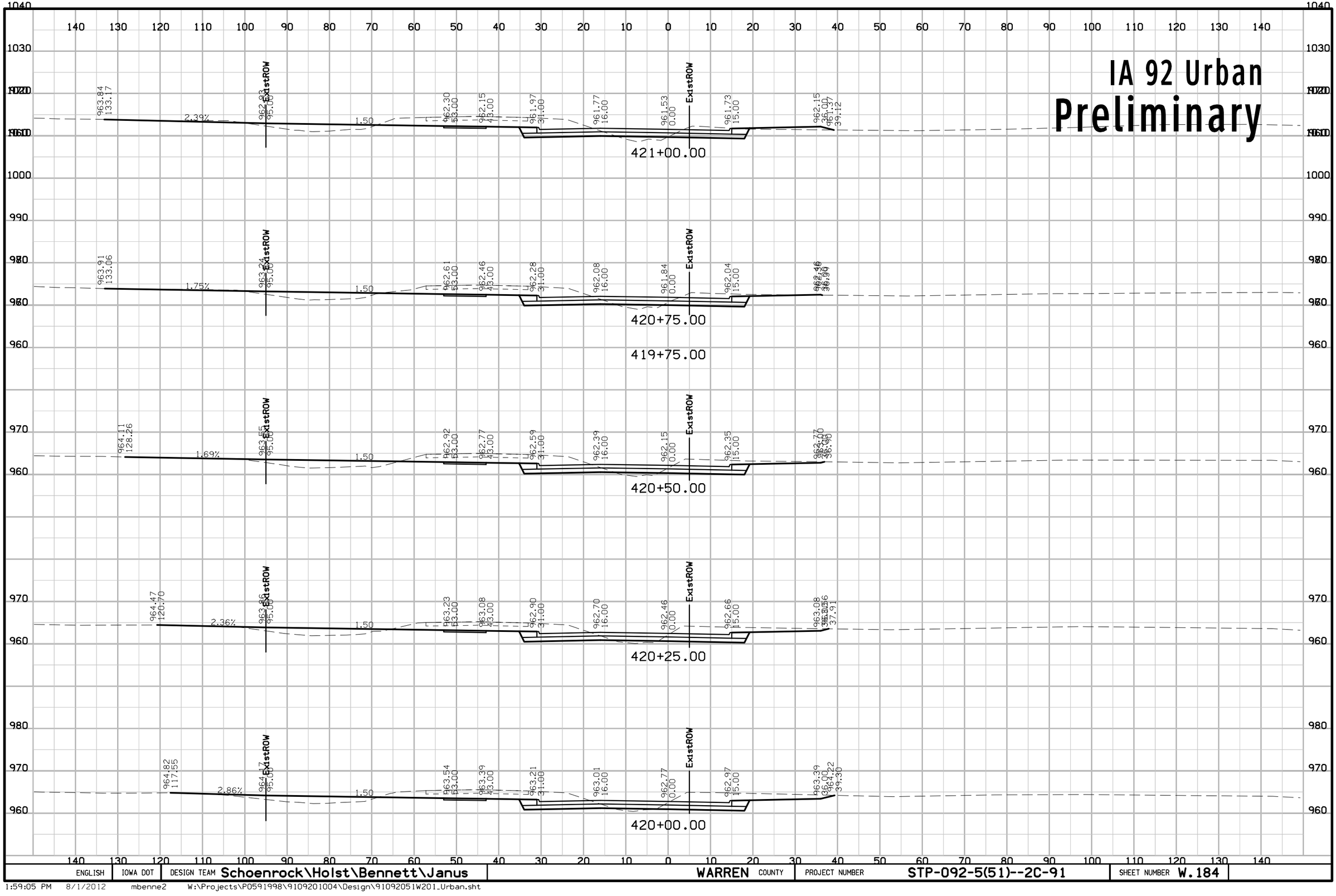
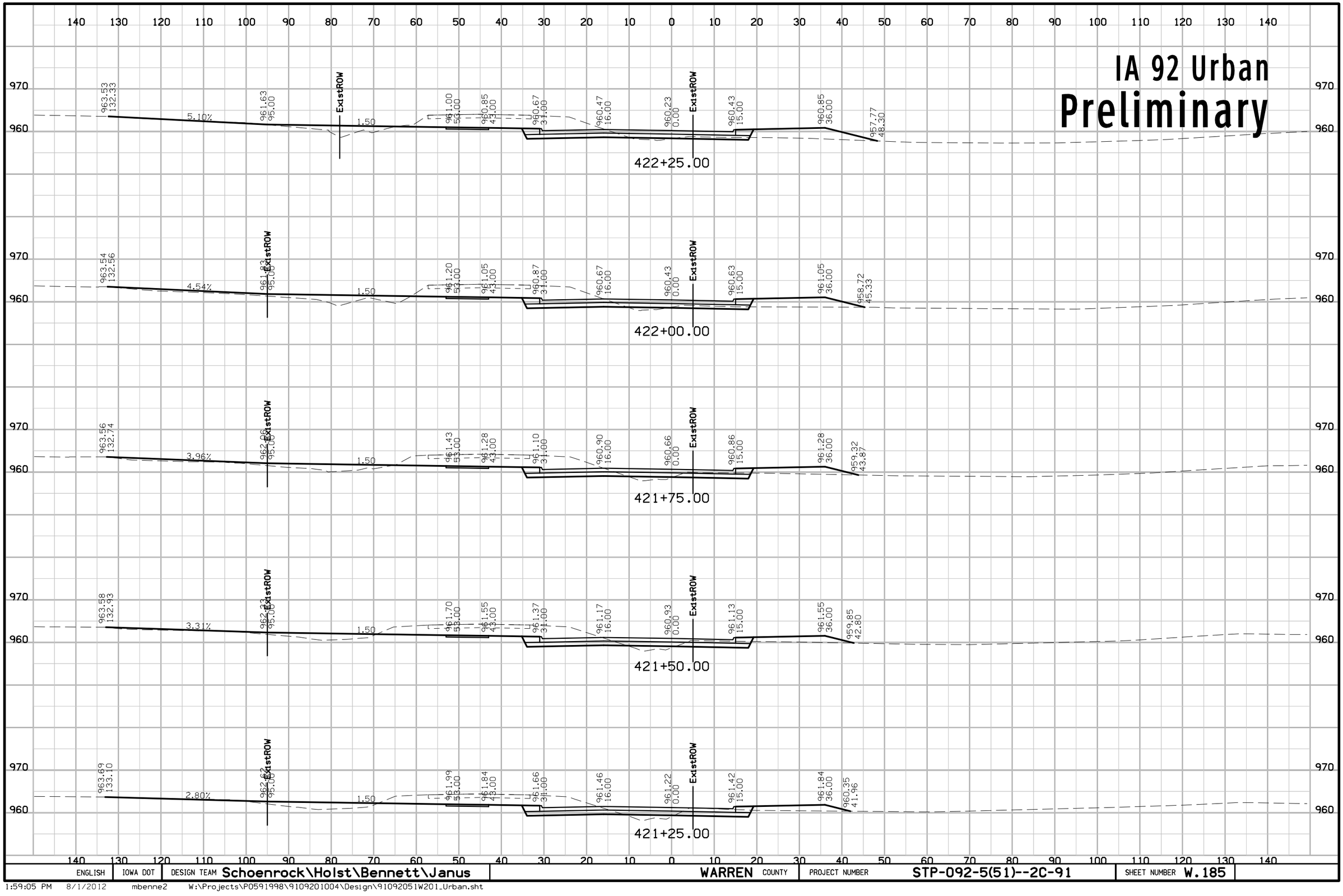
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.184

IA 92 Urban
Preliminary



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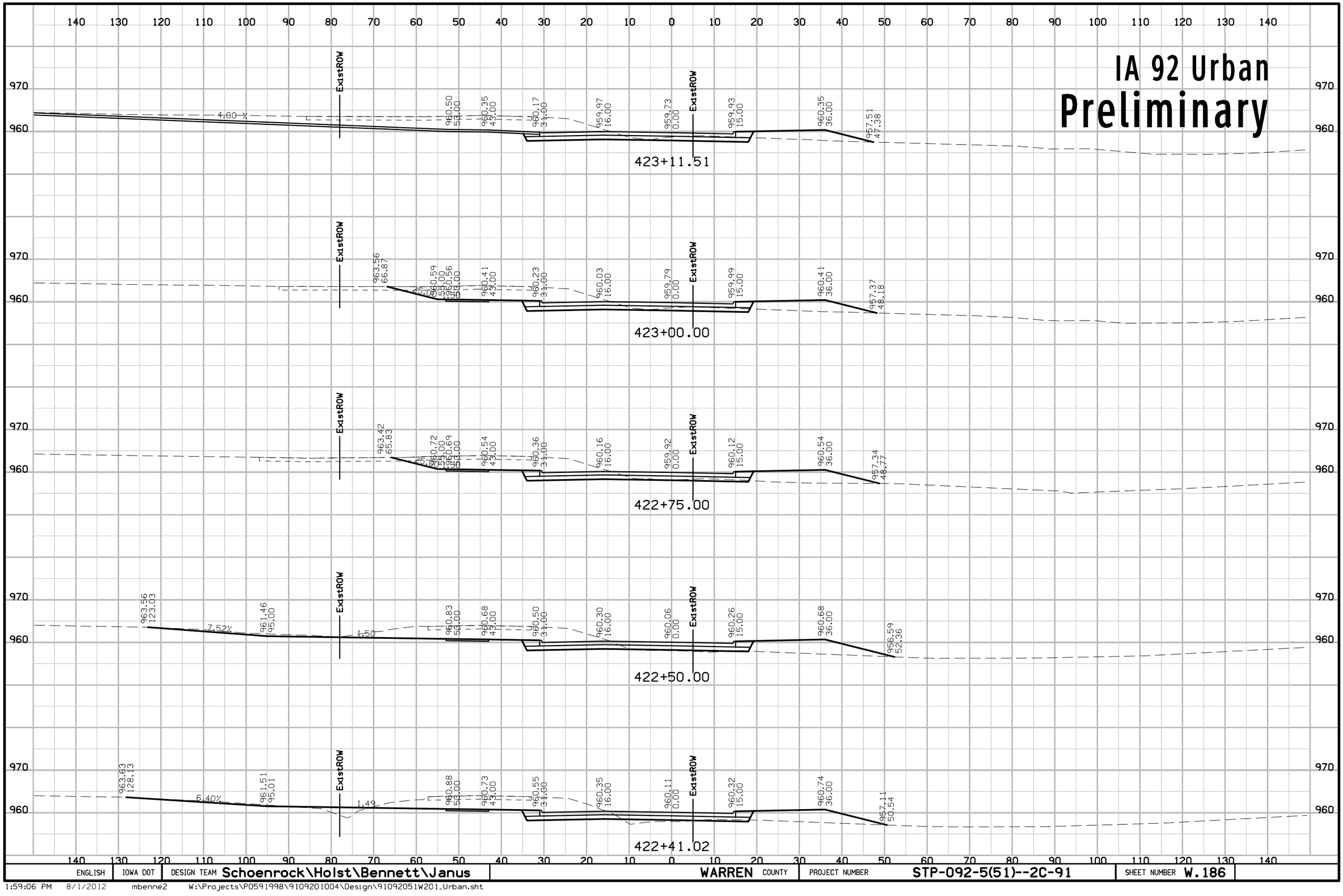
IA 92 Urban
Preliminary



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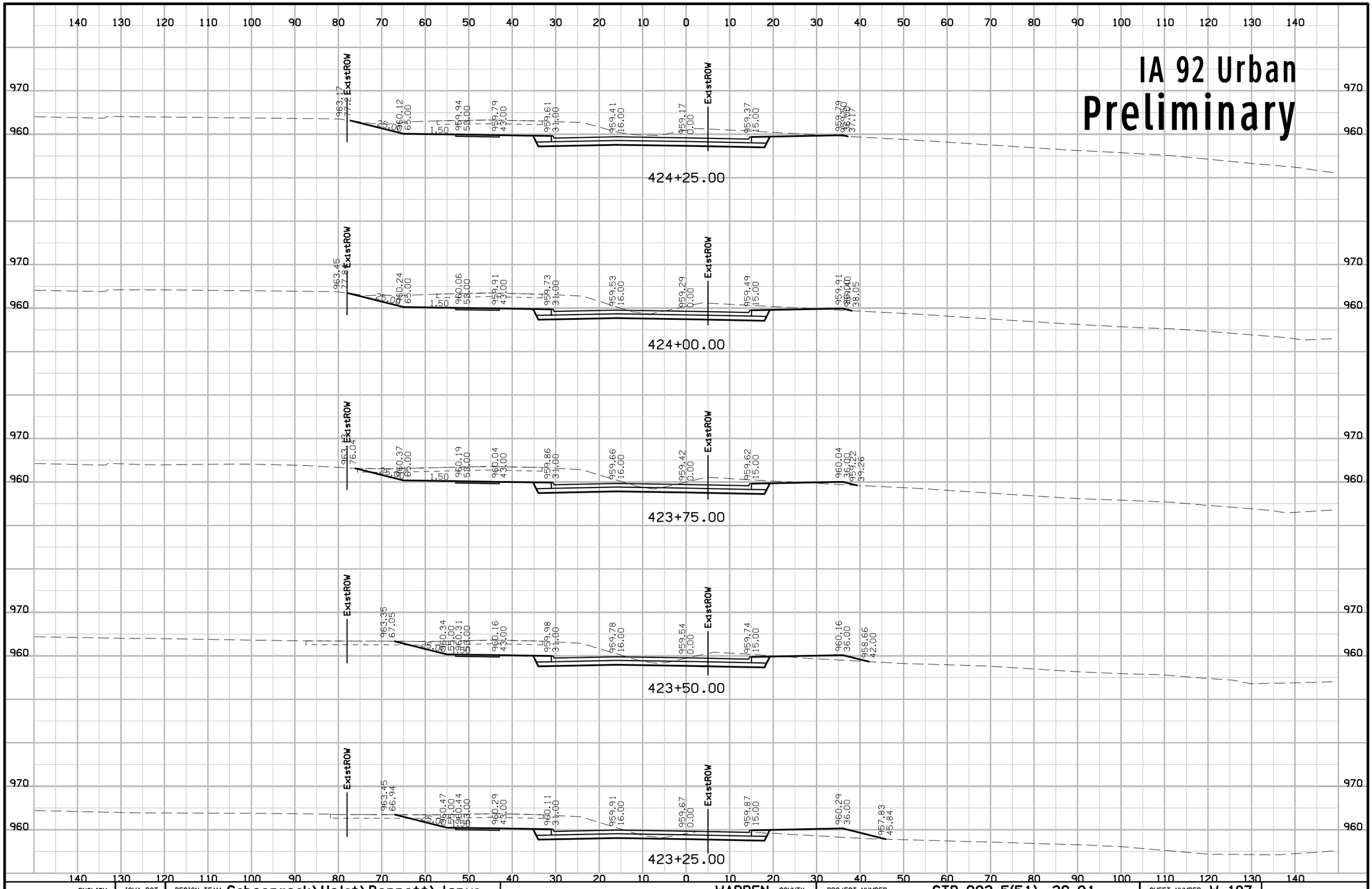
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.187

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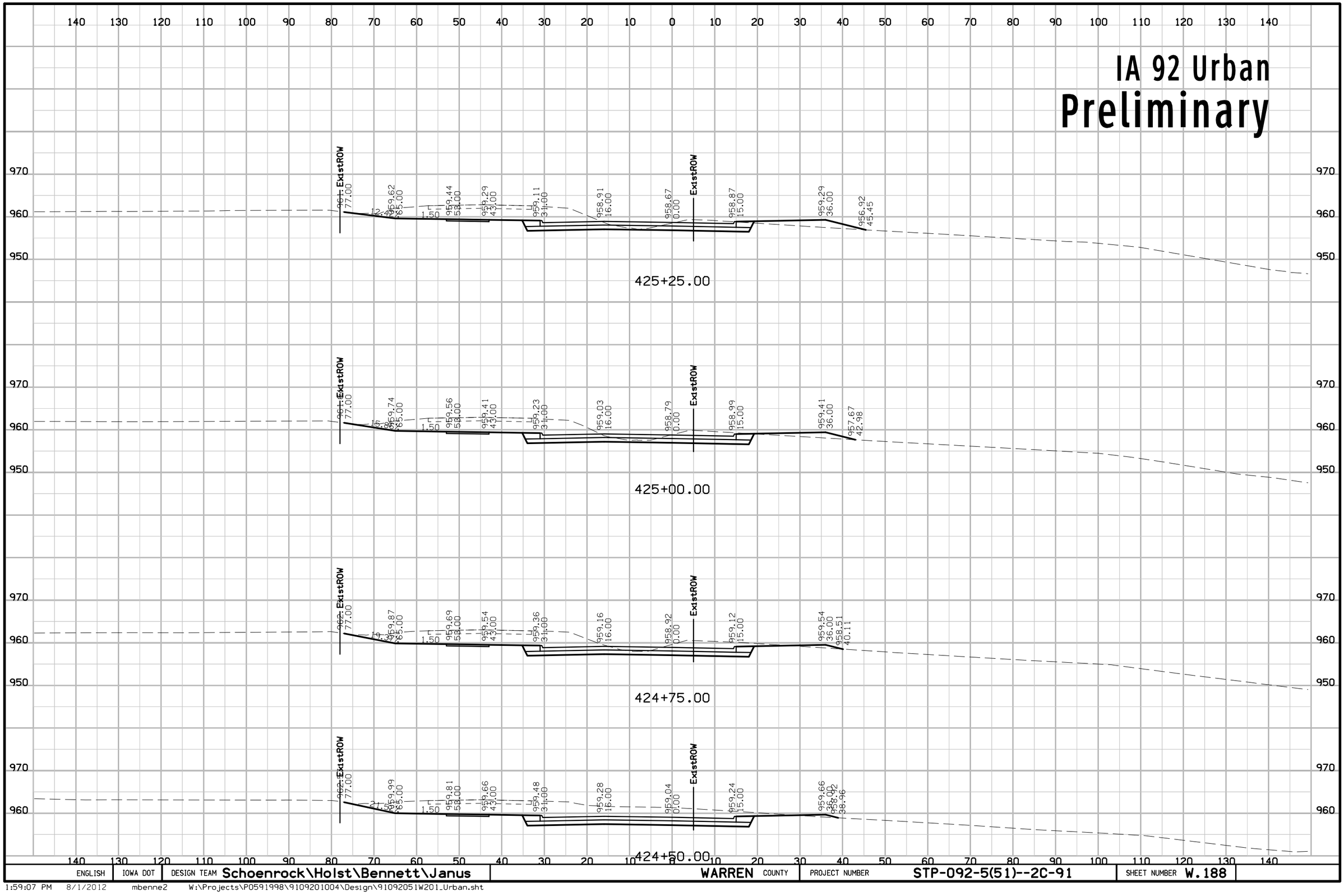
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.188

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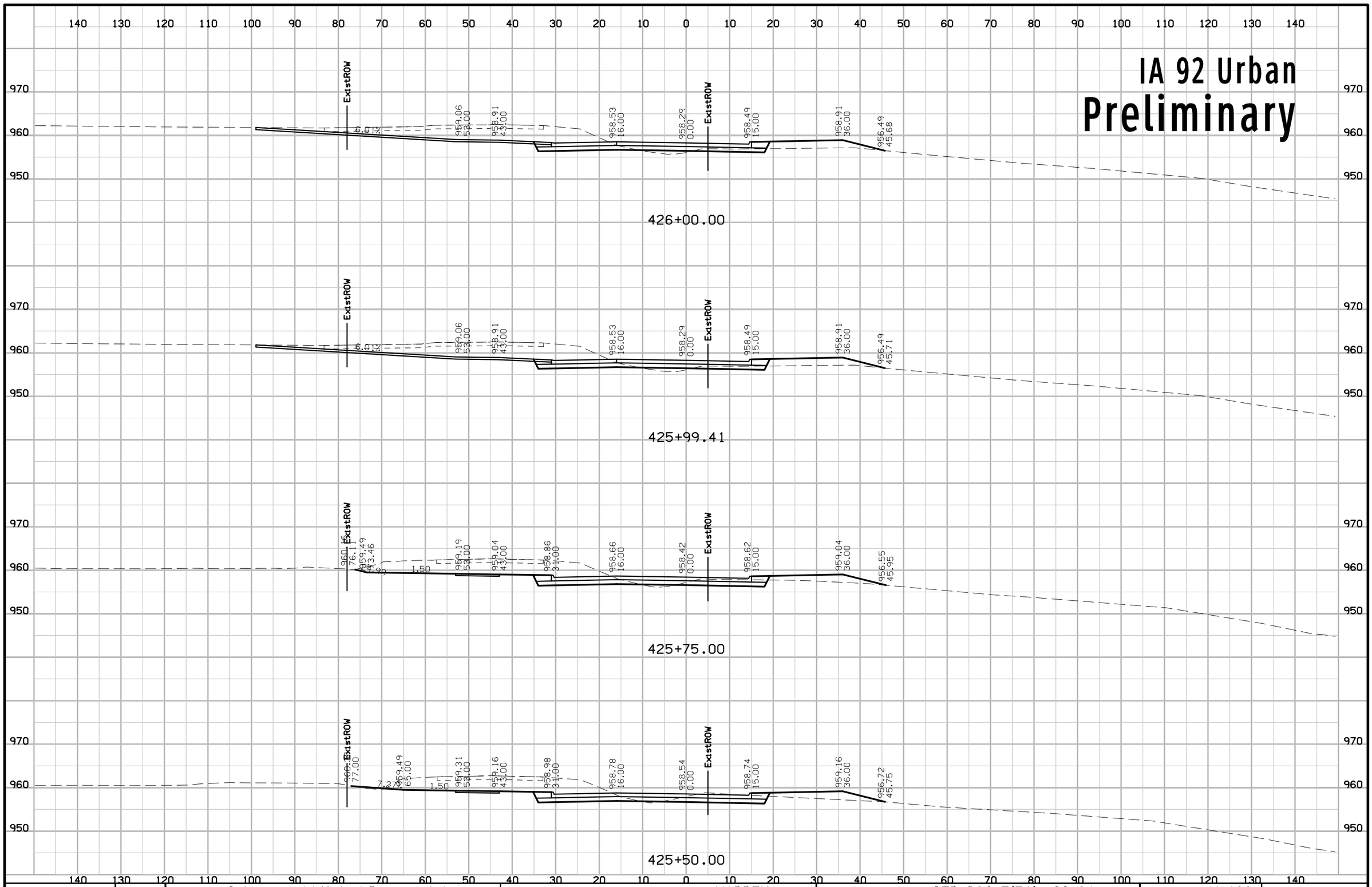
IA 92 Urban
Preliminary



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IA 92 Urban
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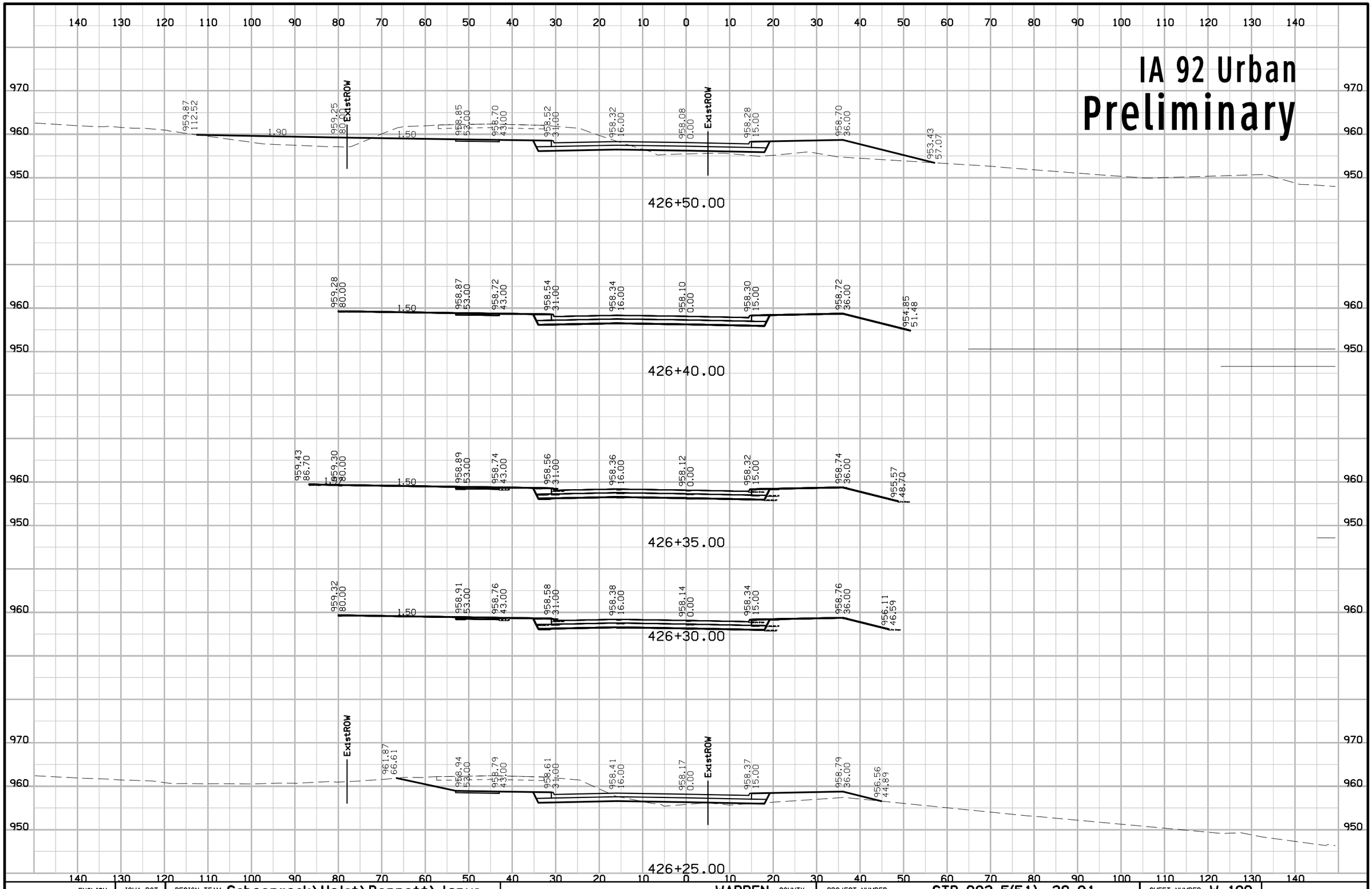

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.190

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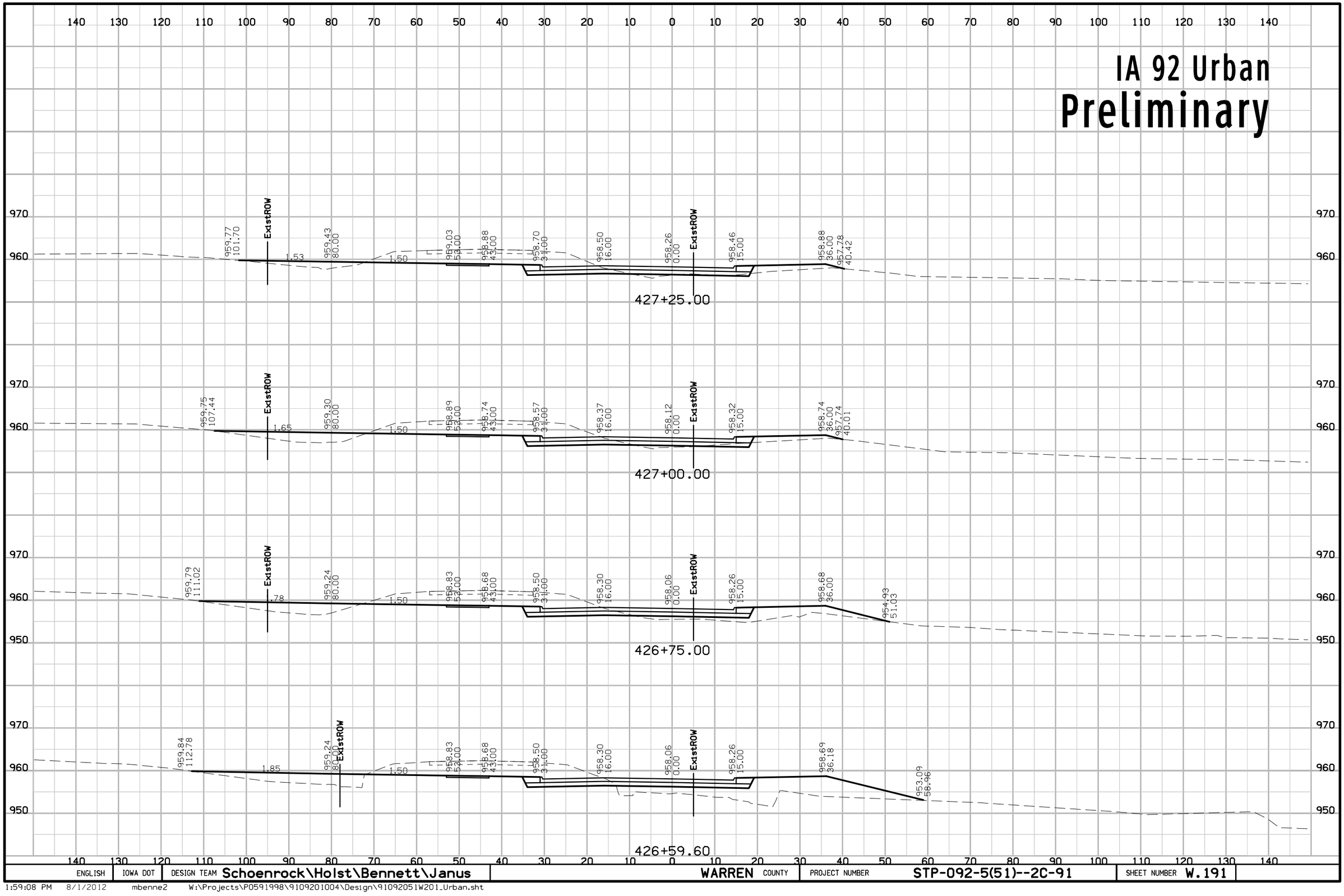
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.191

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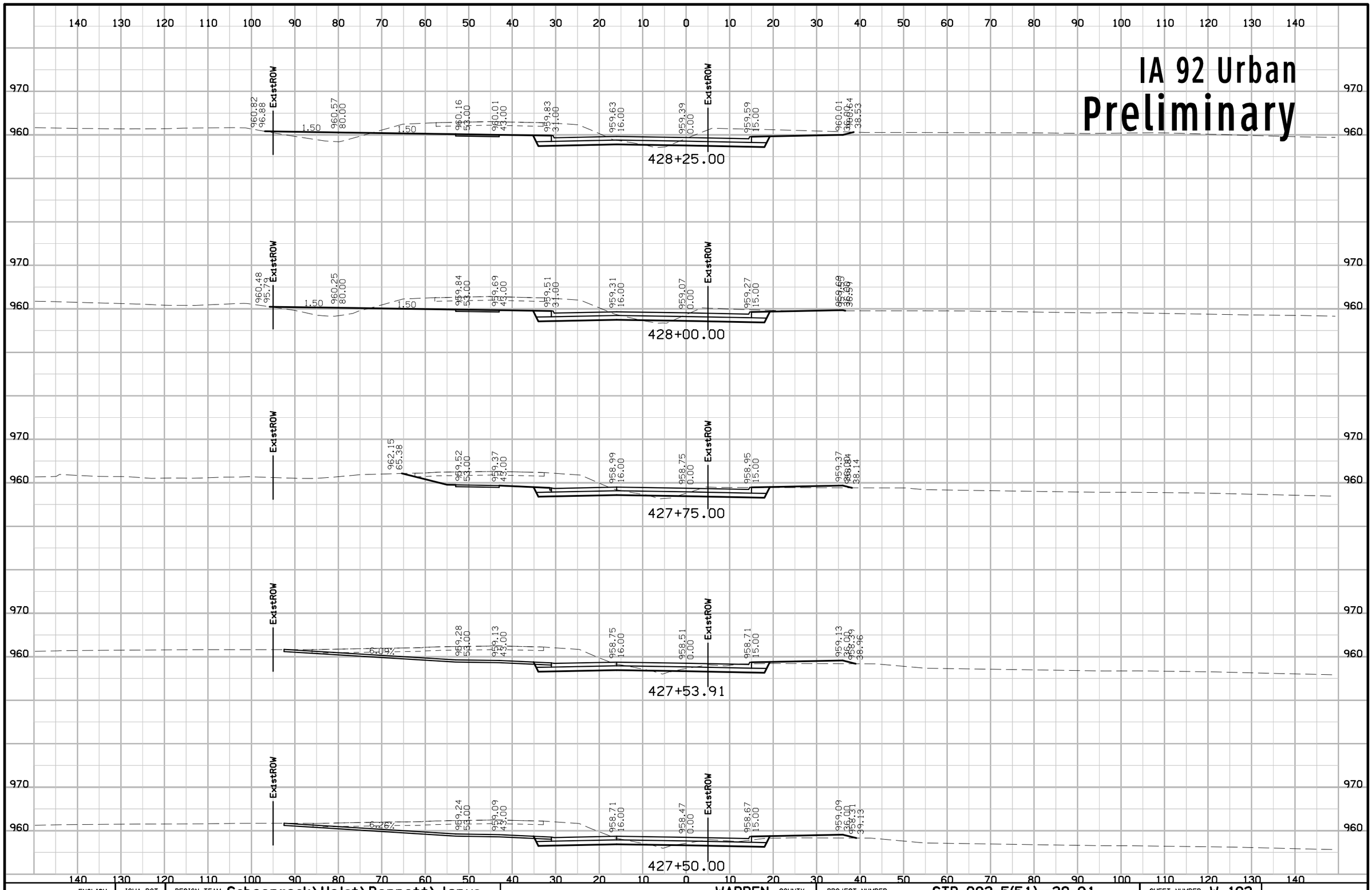
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.192

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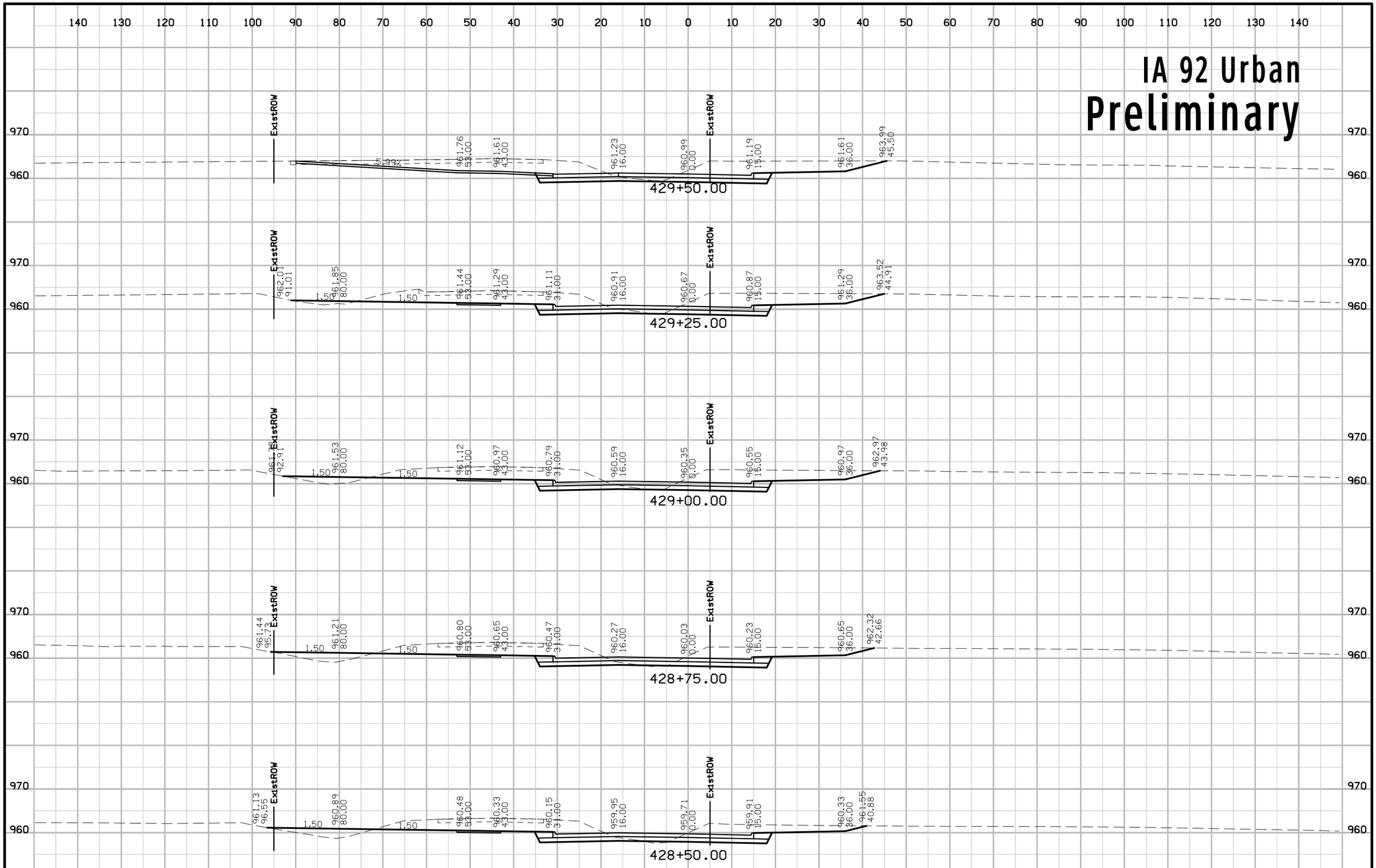
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.193

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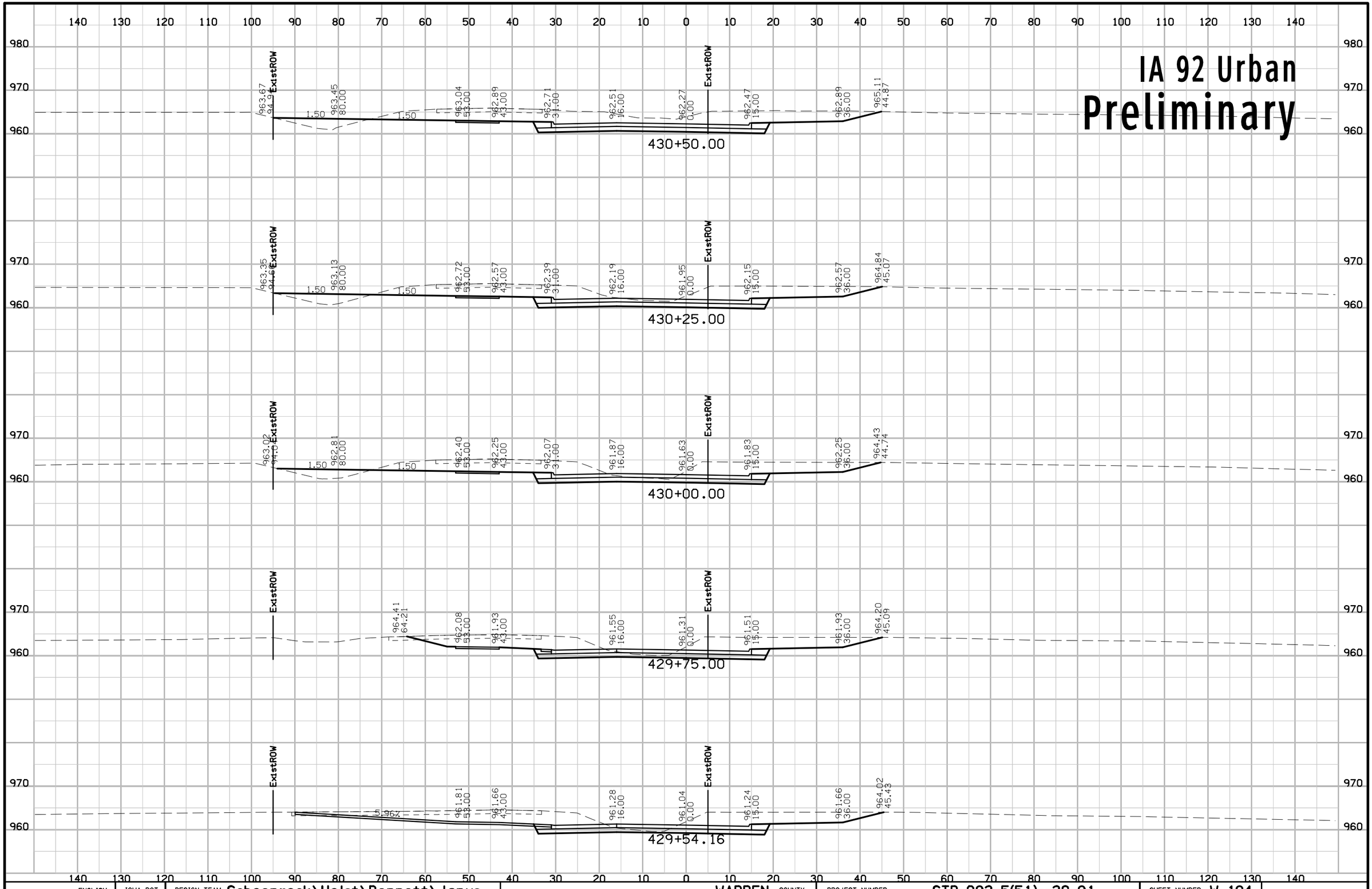
IA 92 Urban
Preliminary



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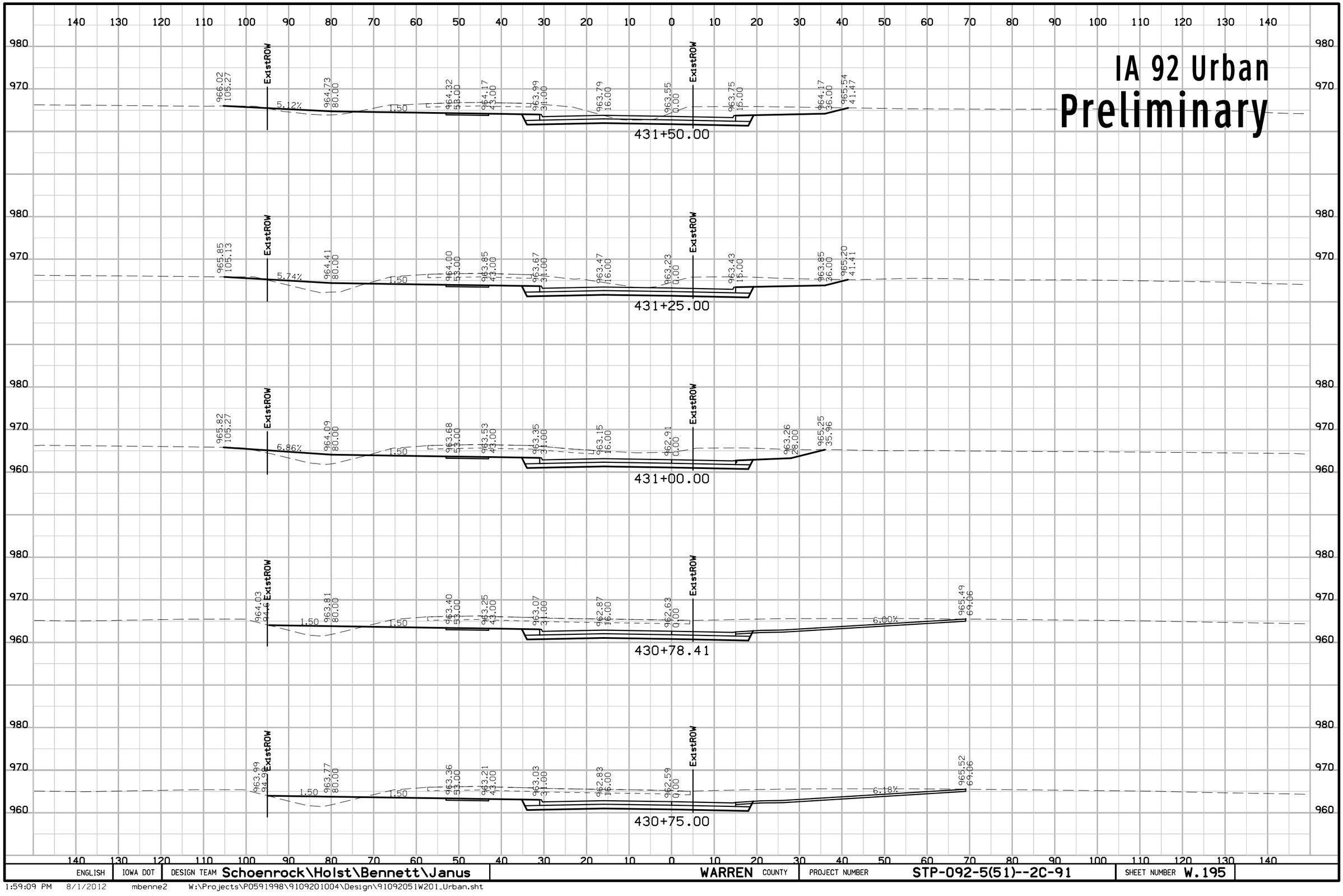
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.195

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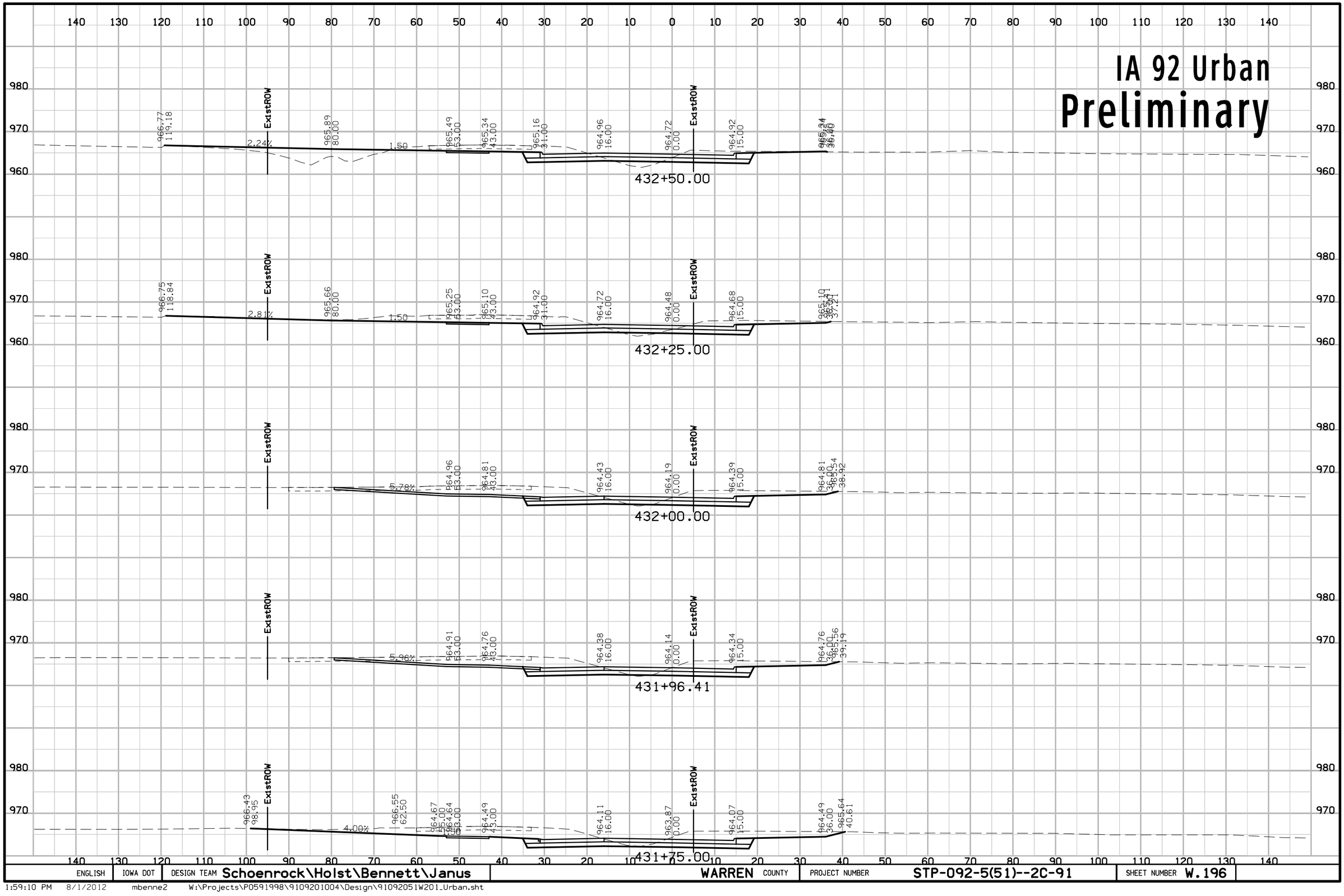
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.196

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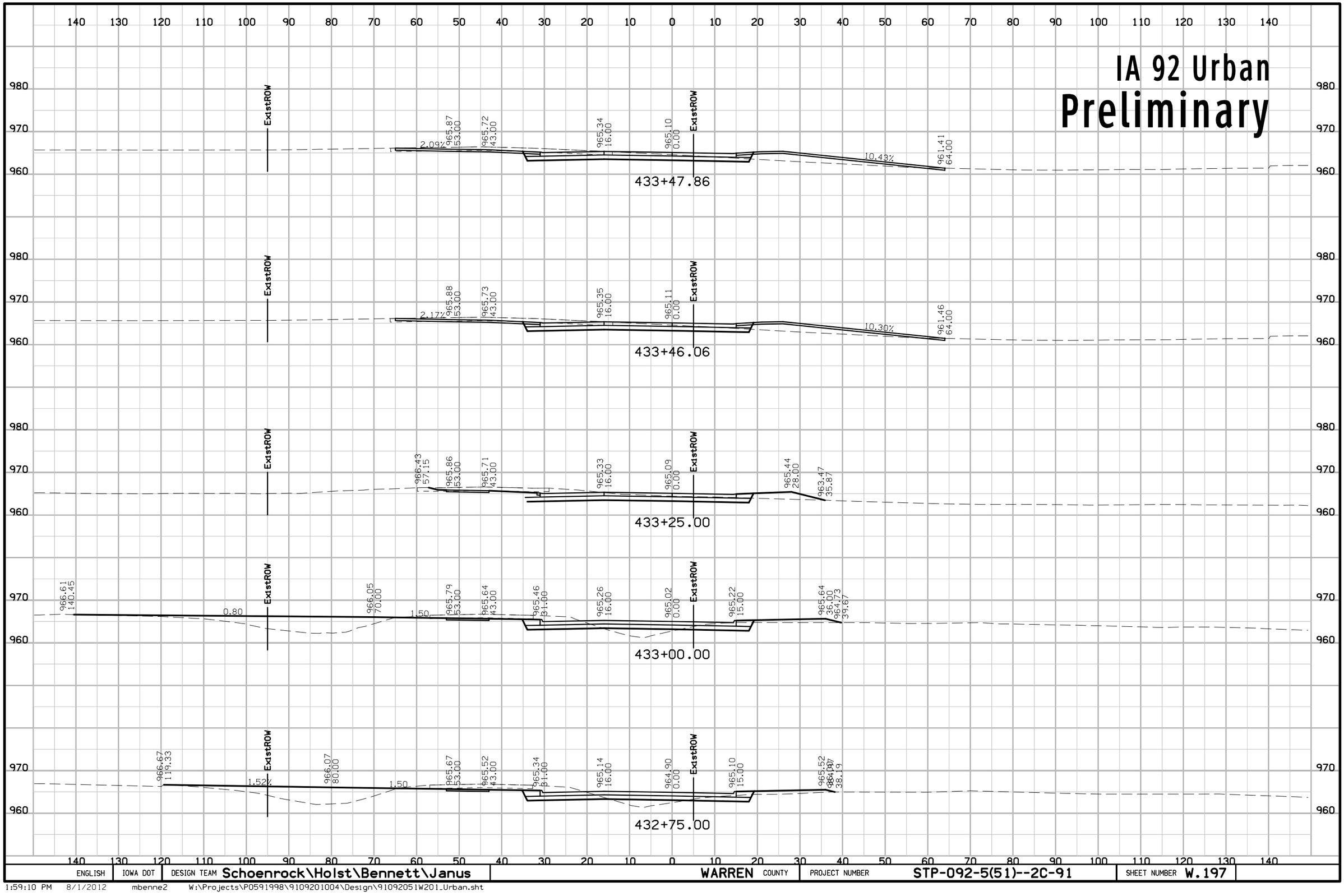
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.197

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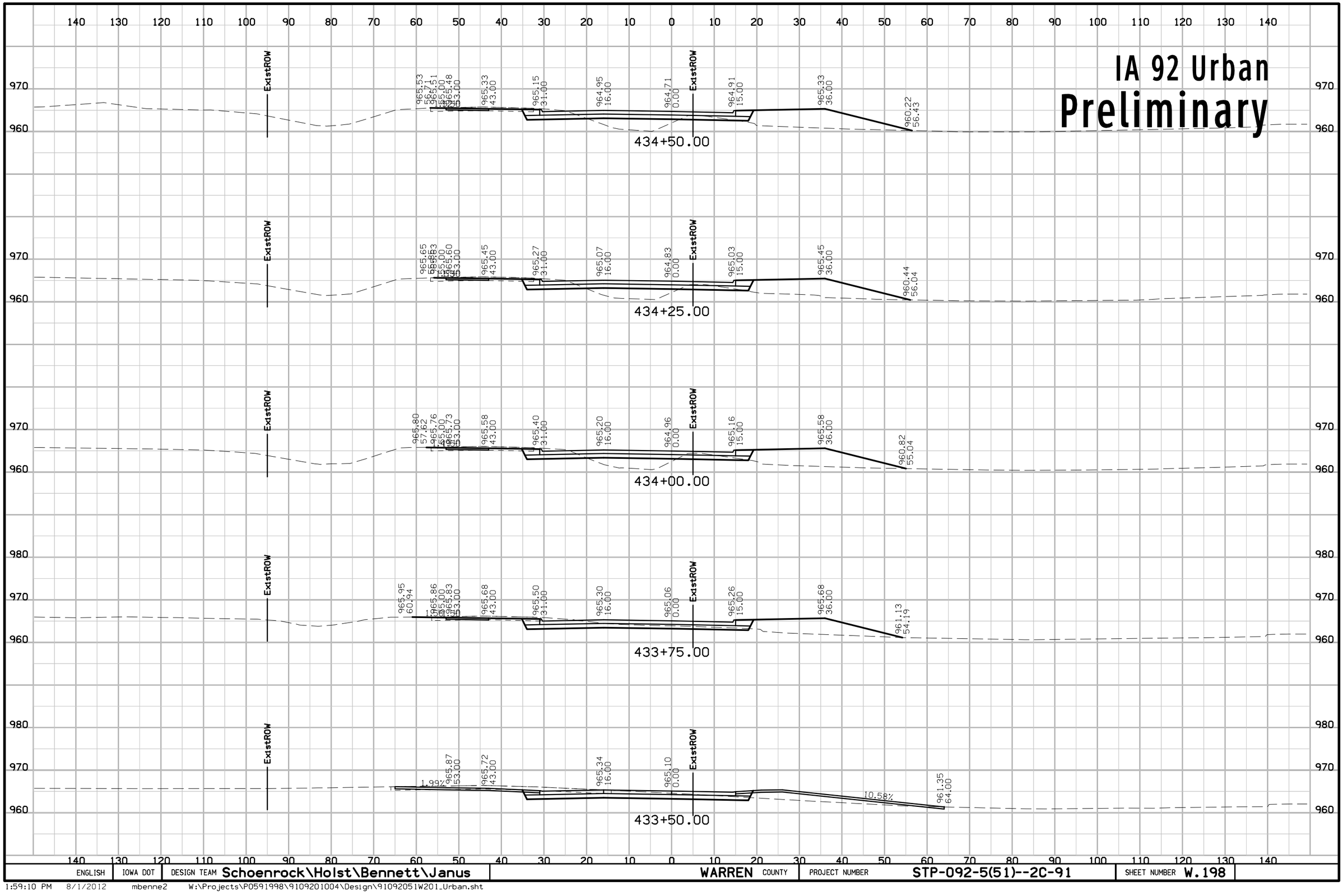
IA 92 Urban
Preliminary



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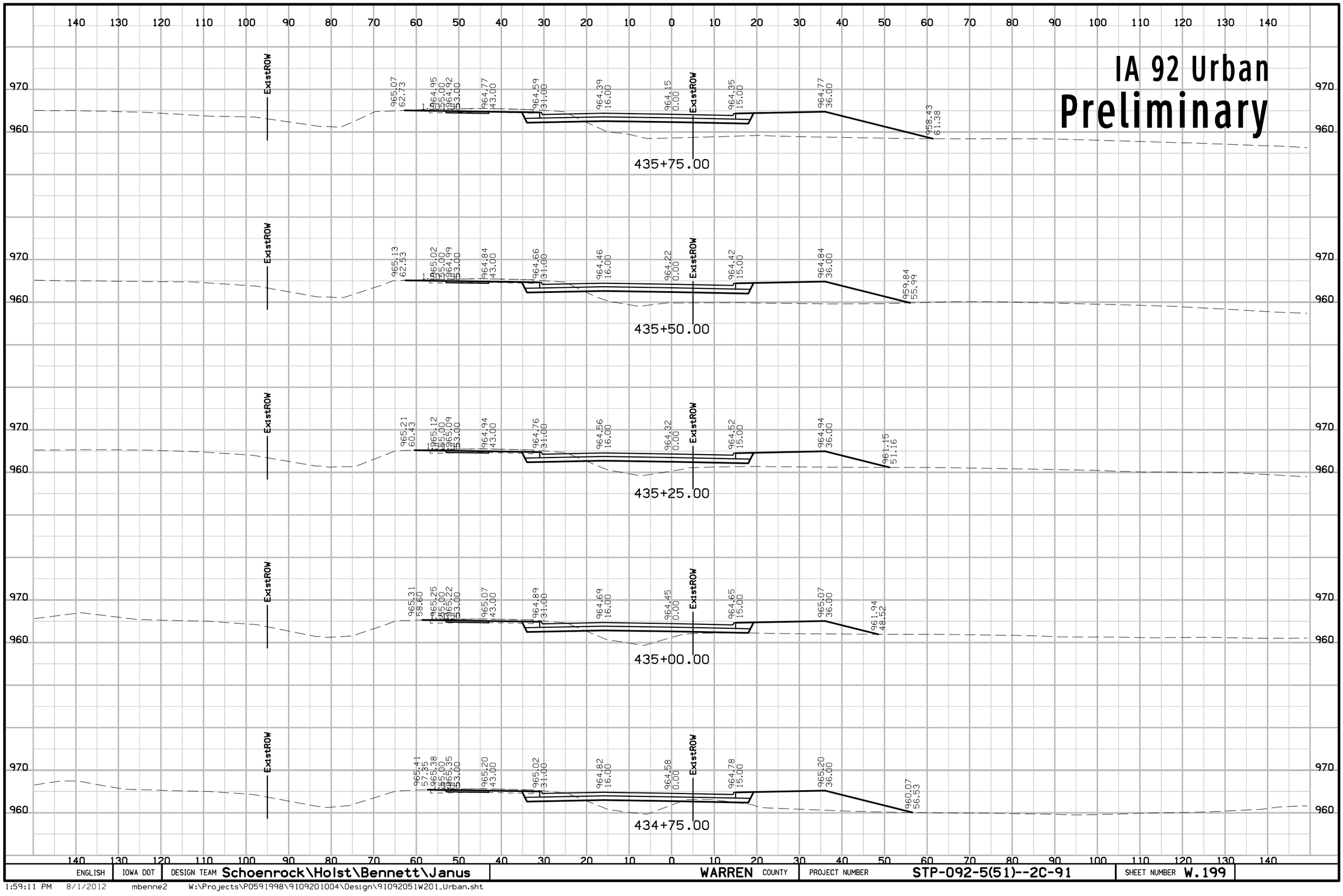
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.199

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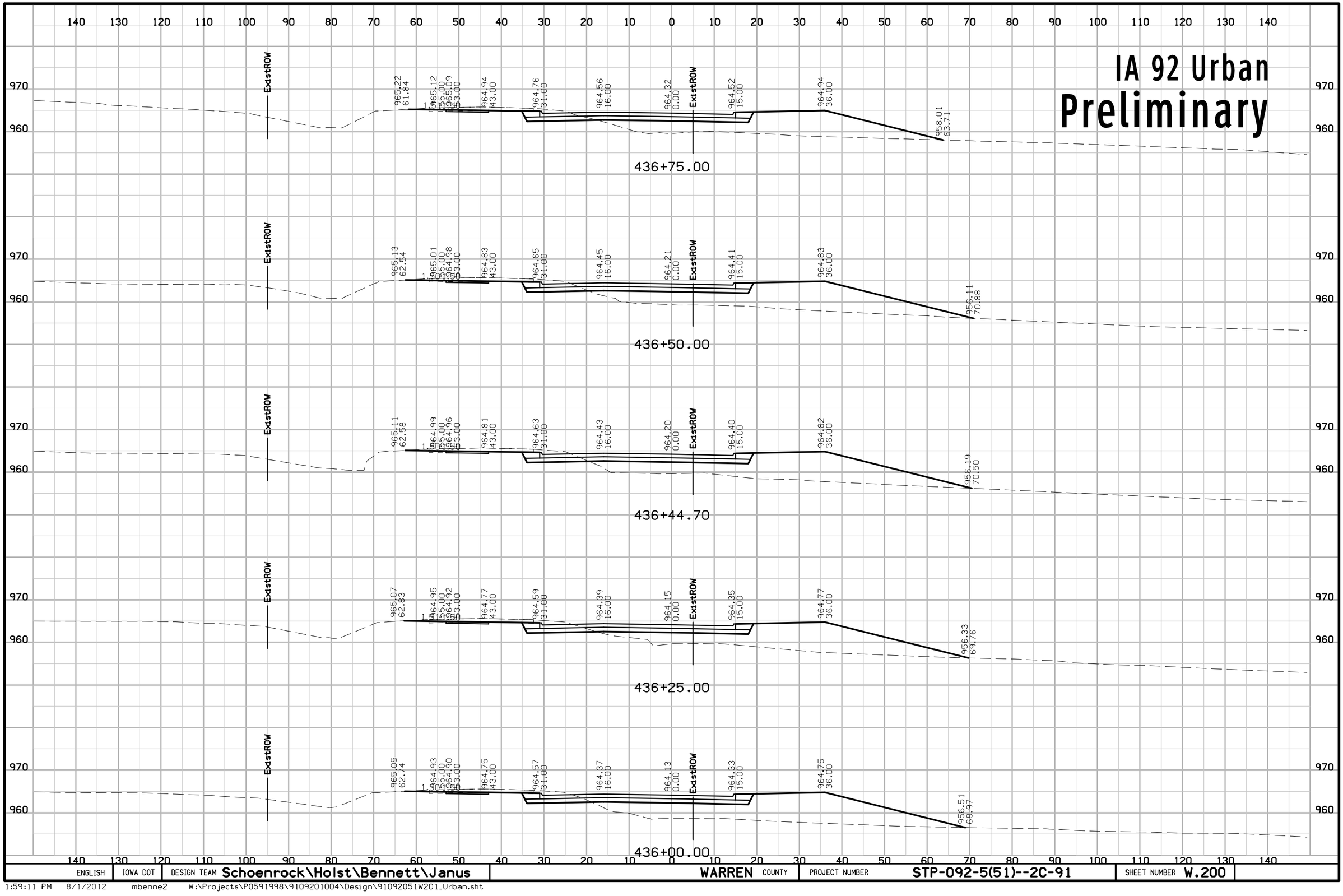
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.200

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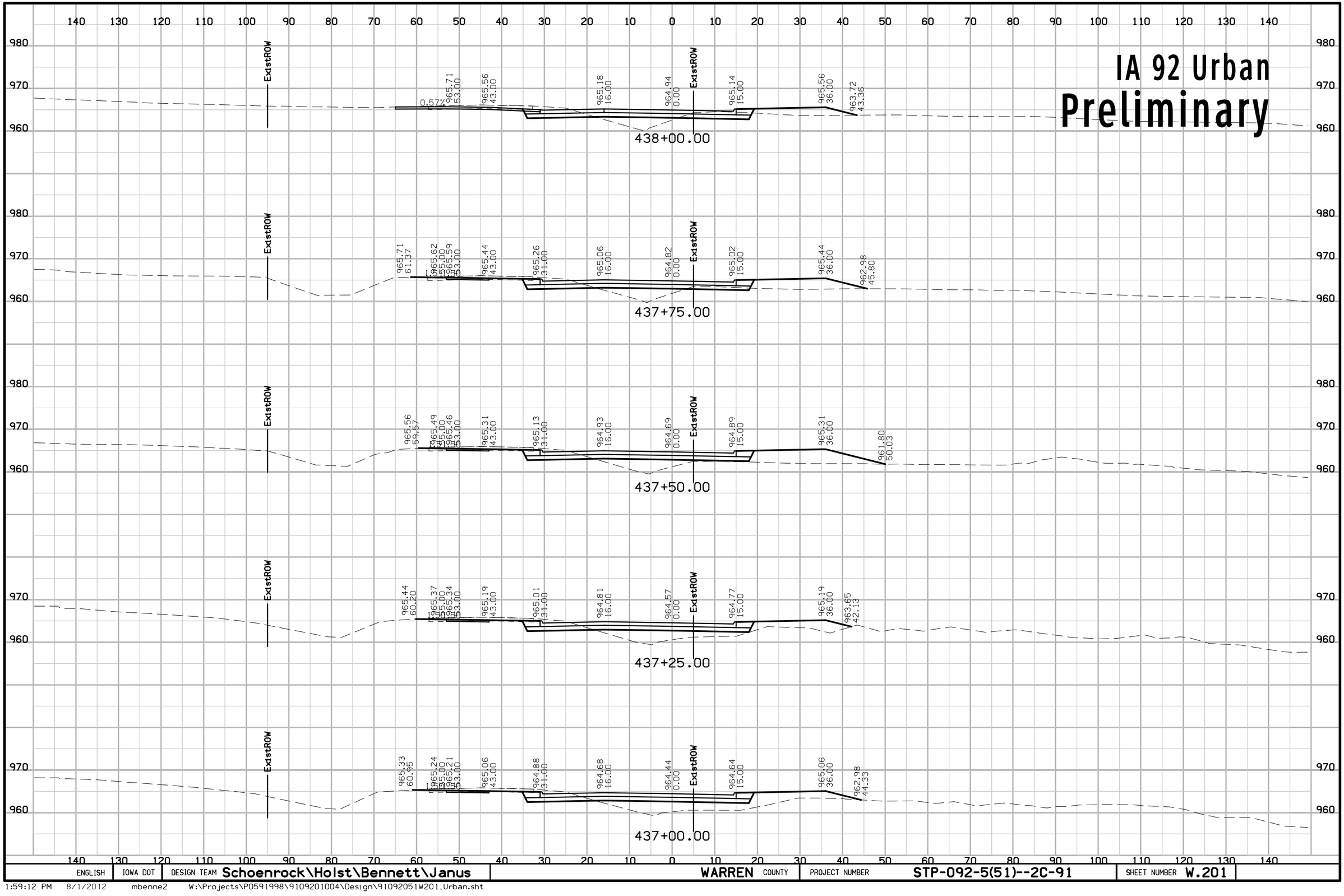
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.201

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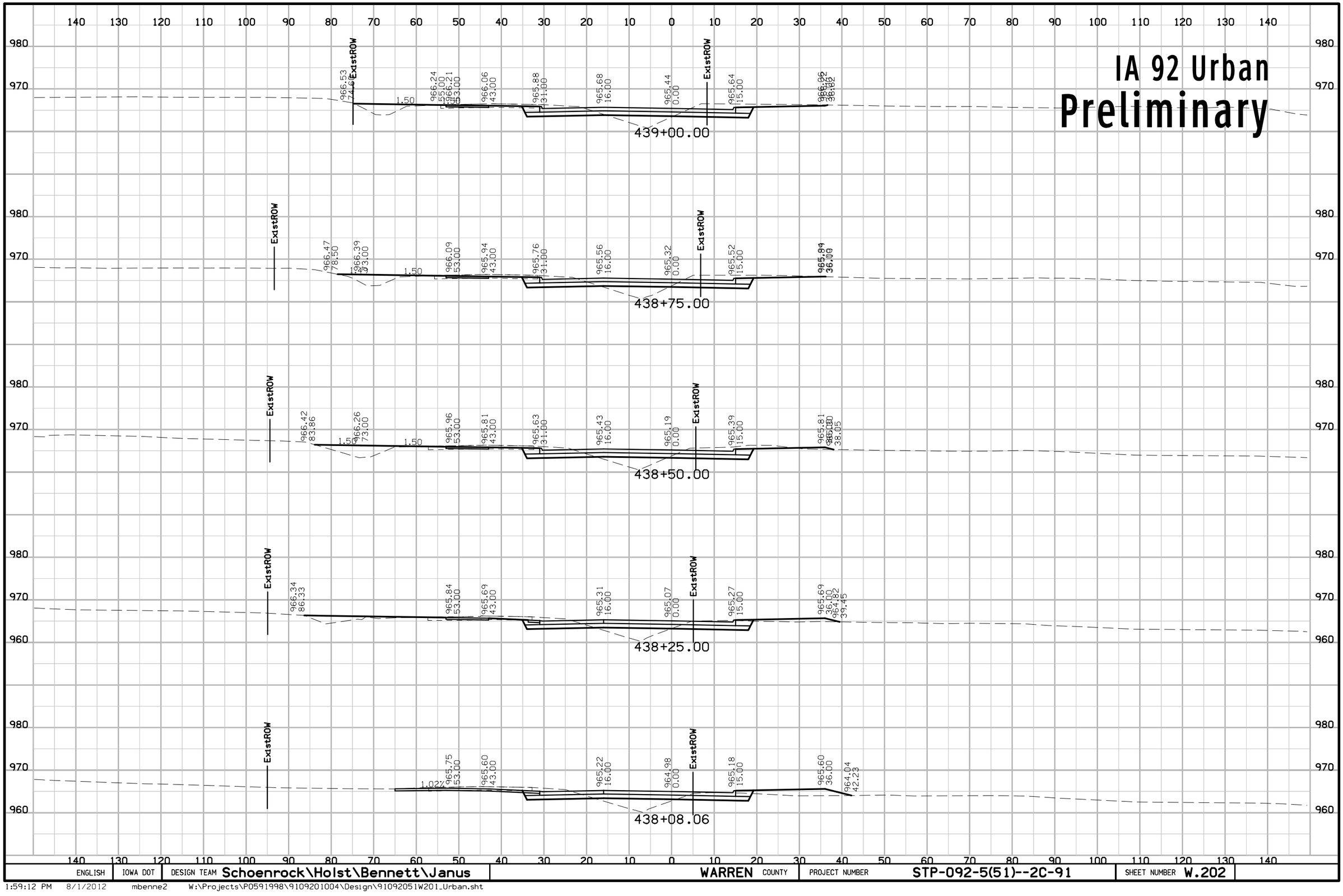
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.202

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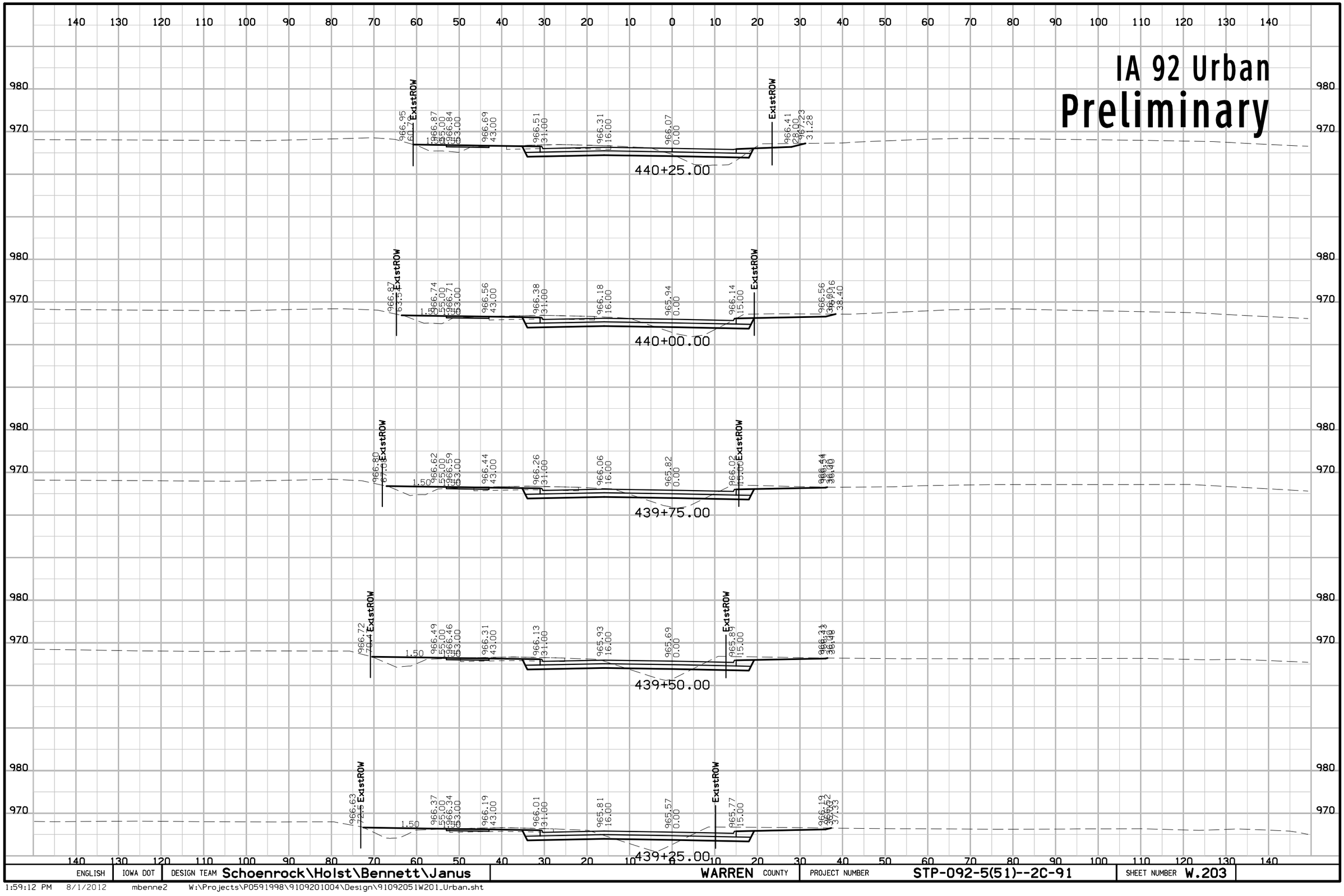
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.203

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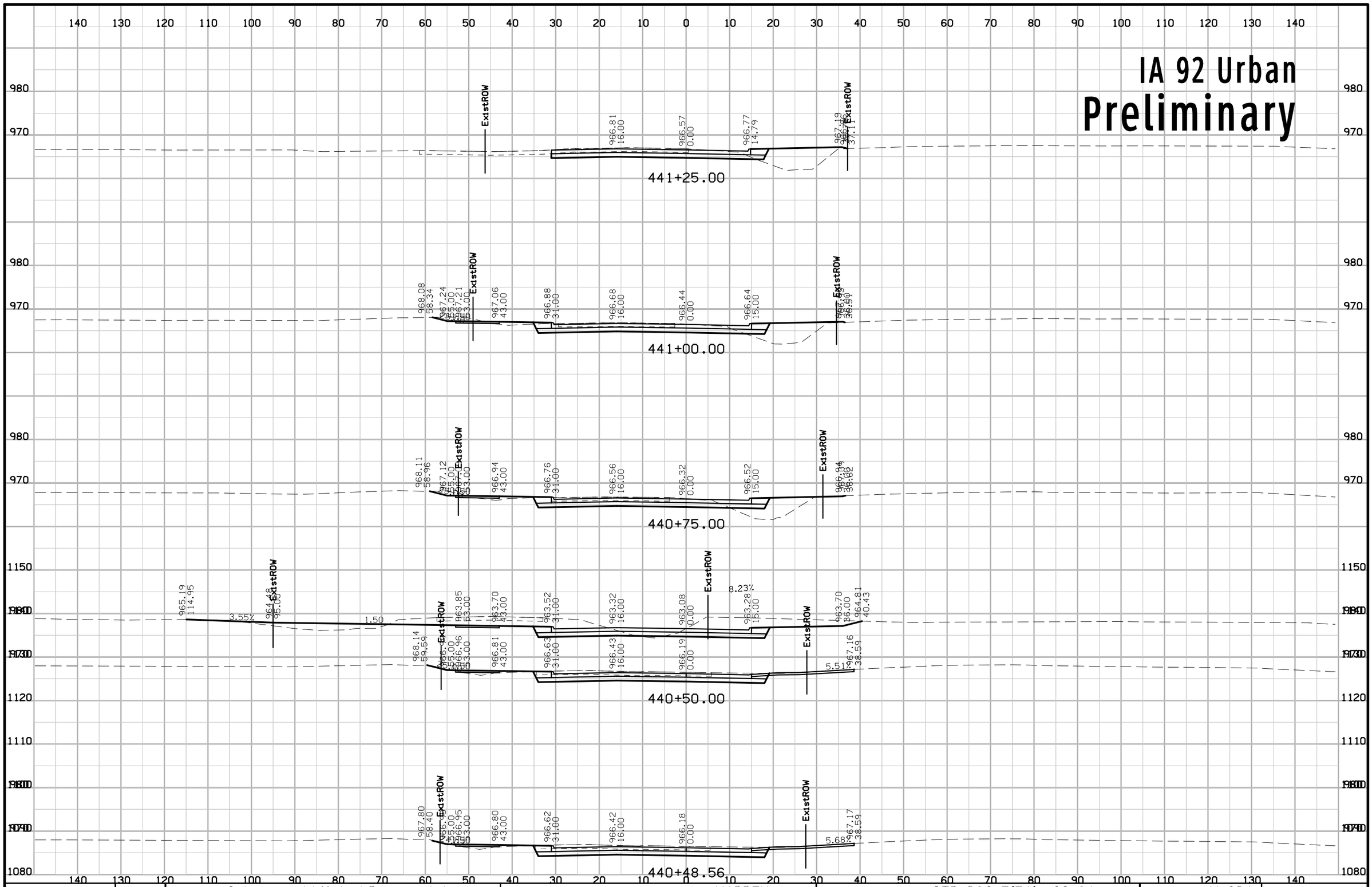
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.204

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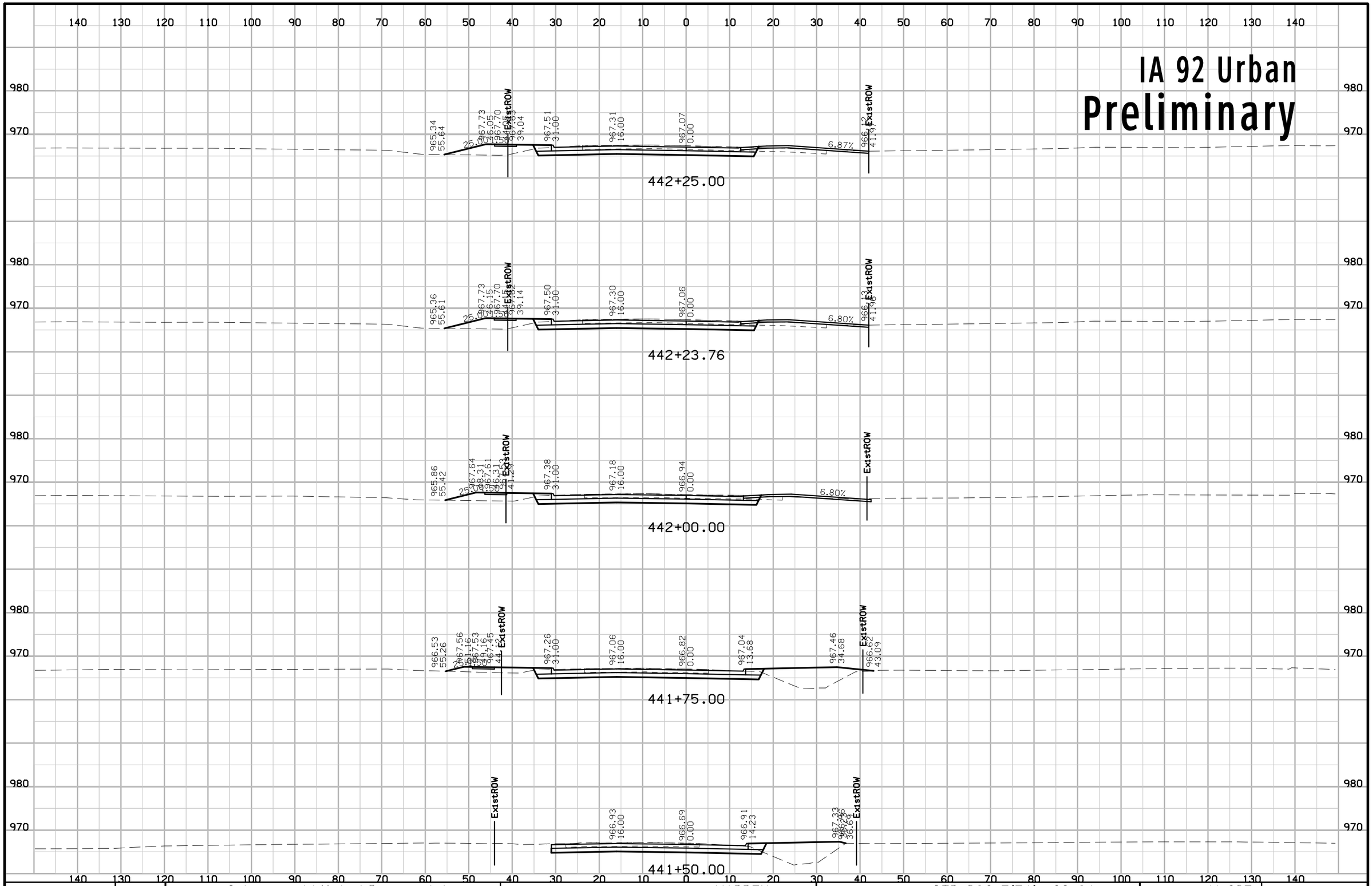
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.205

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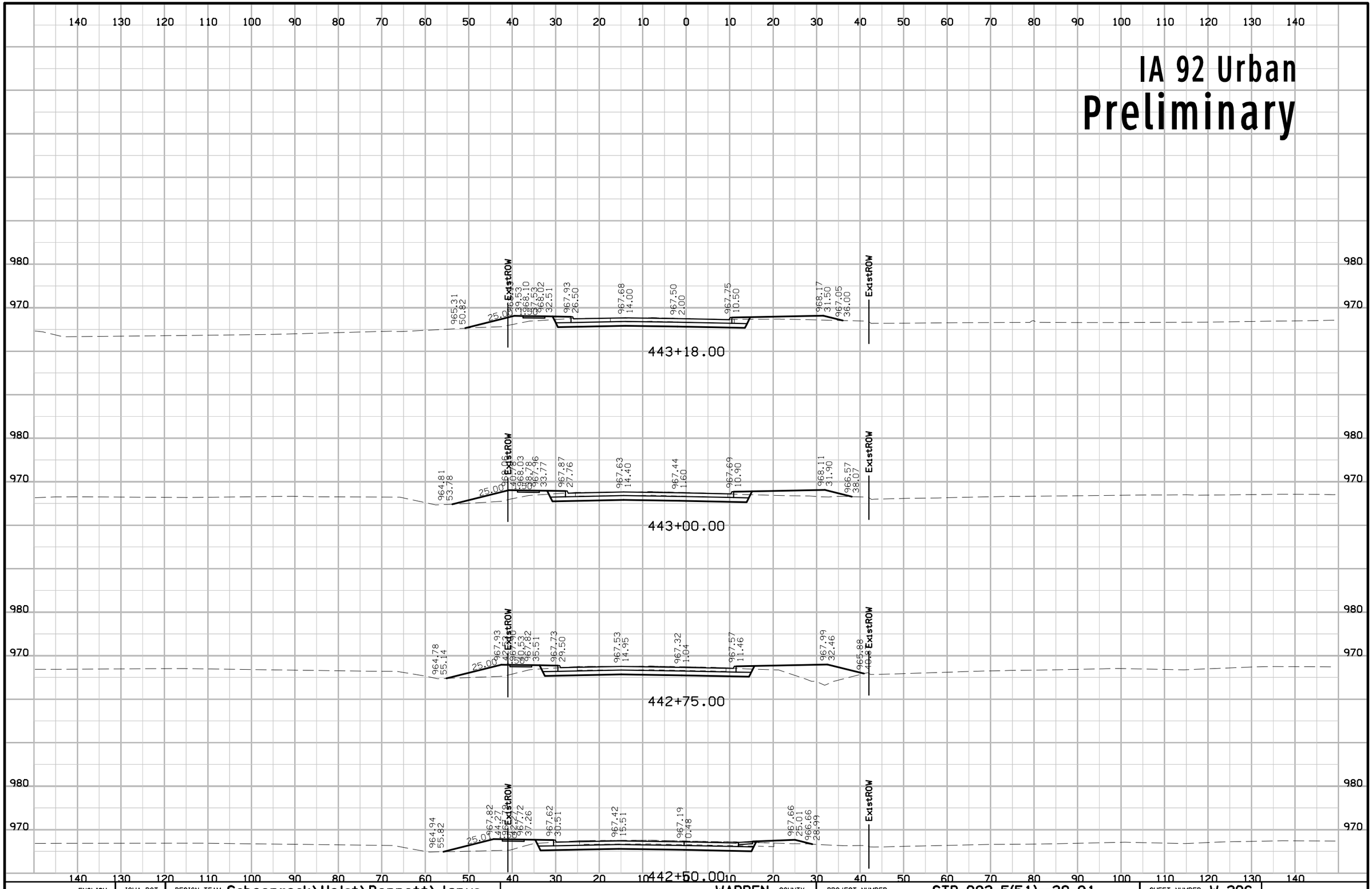
IA 92 Urban
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.206

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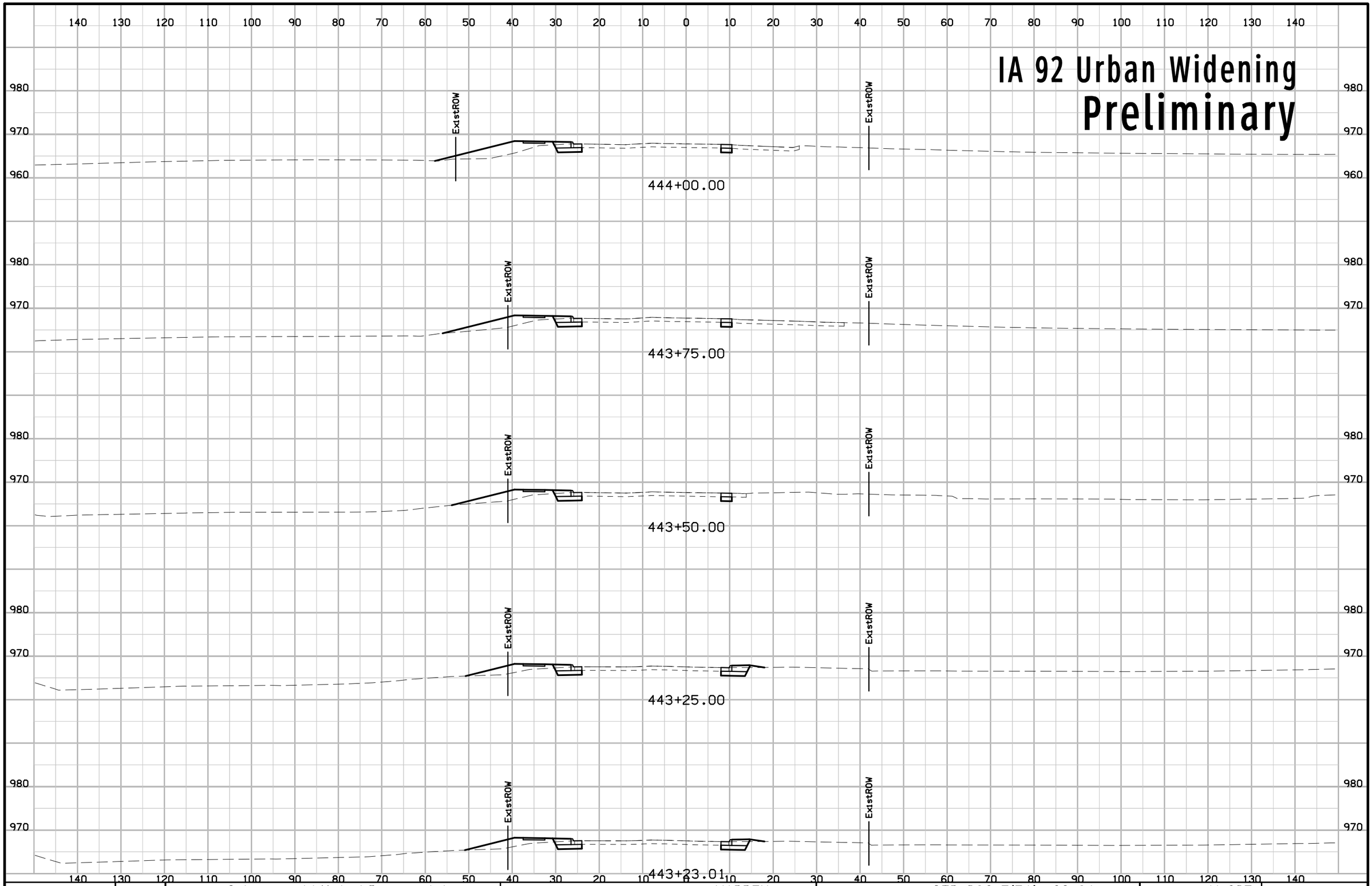
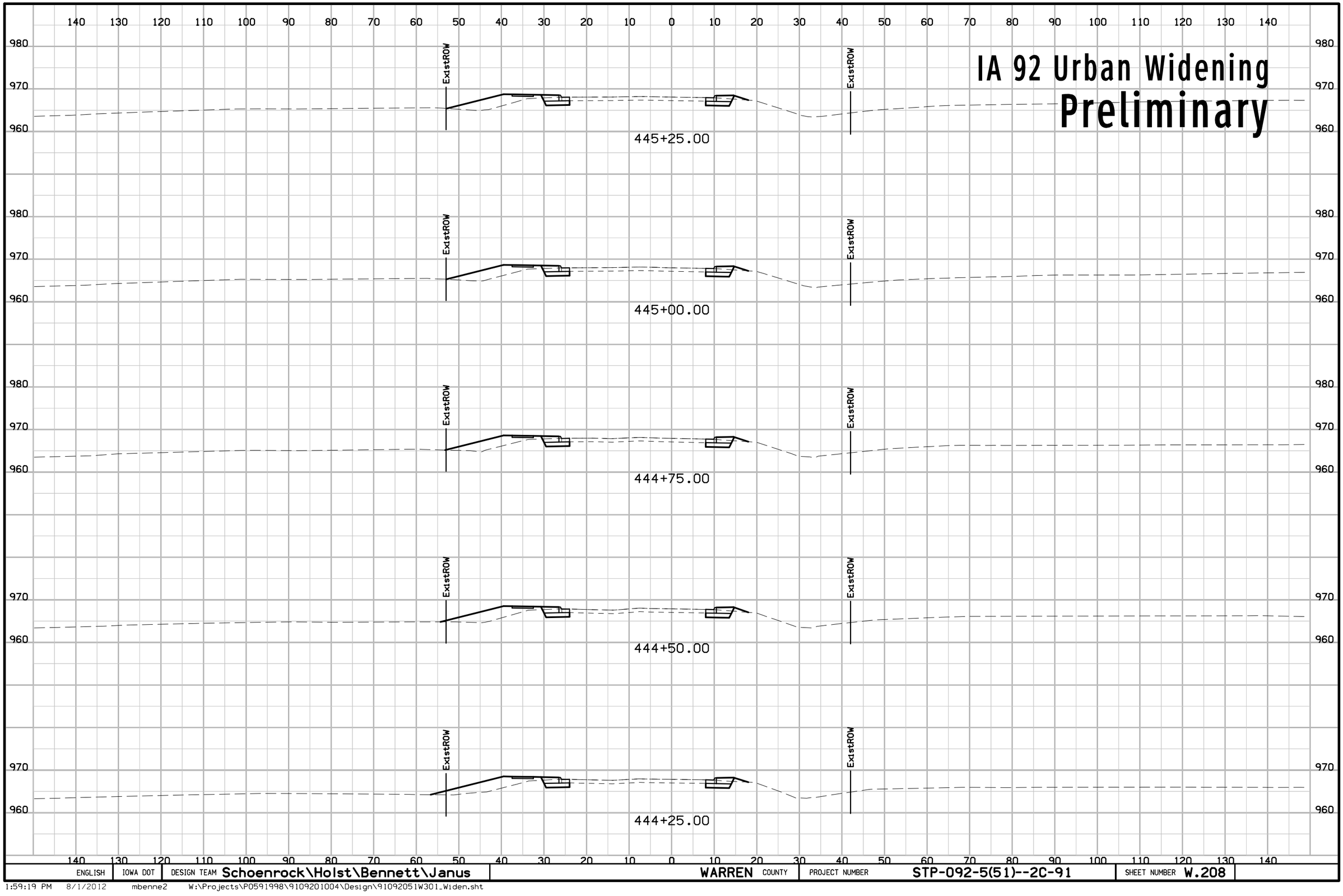
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.207

IA 92 Urban Widening

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.208

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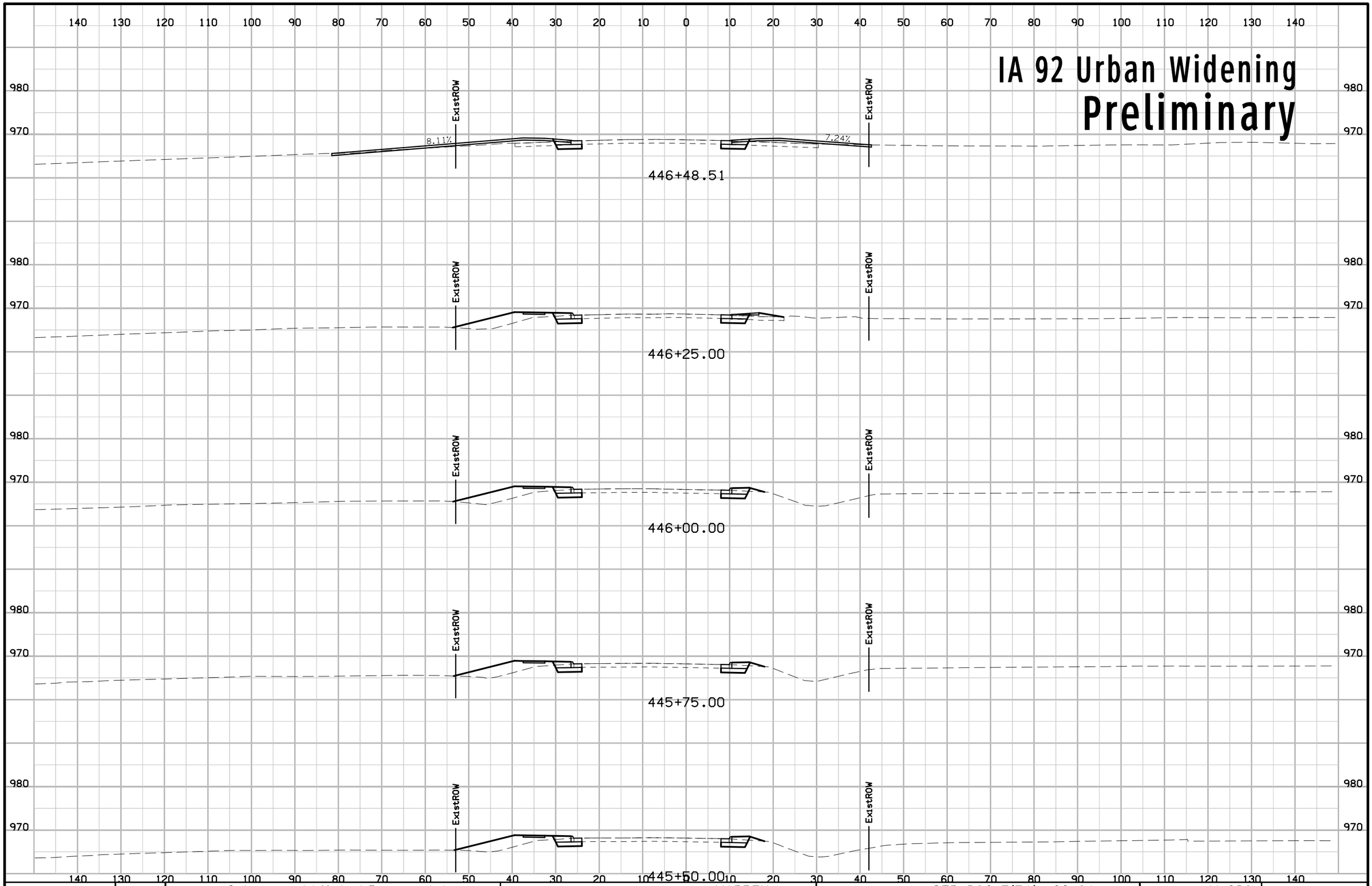
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.209

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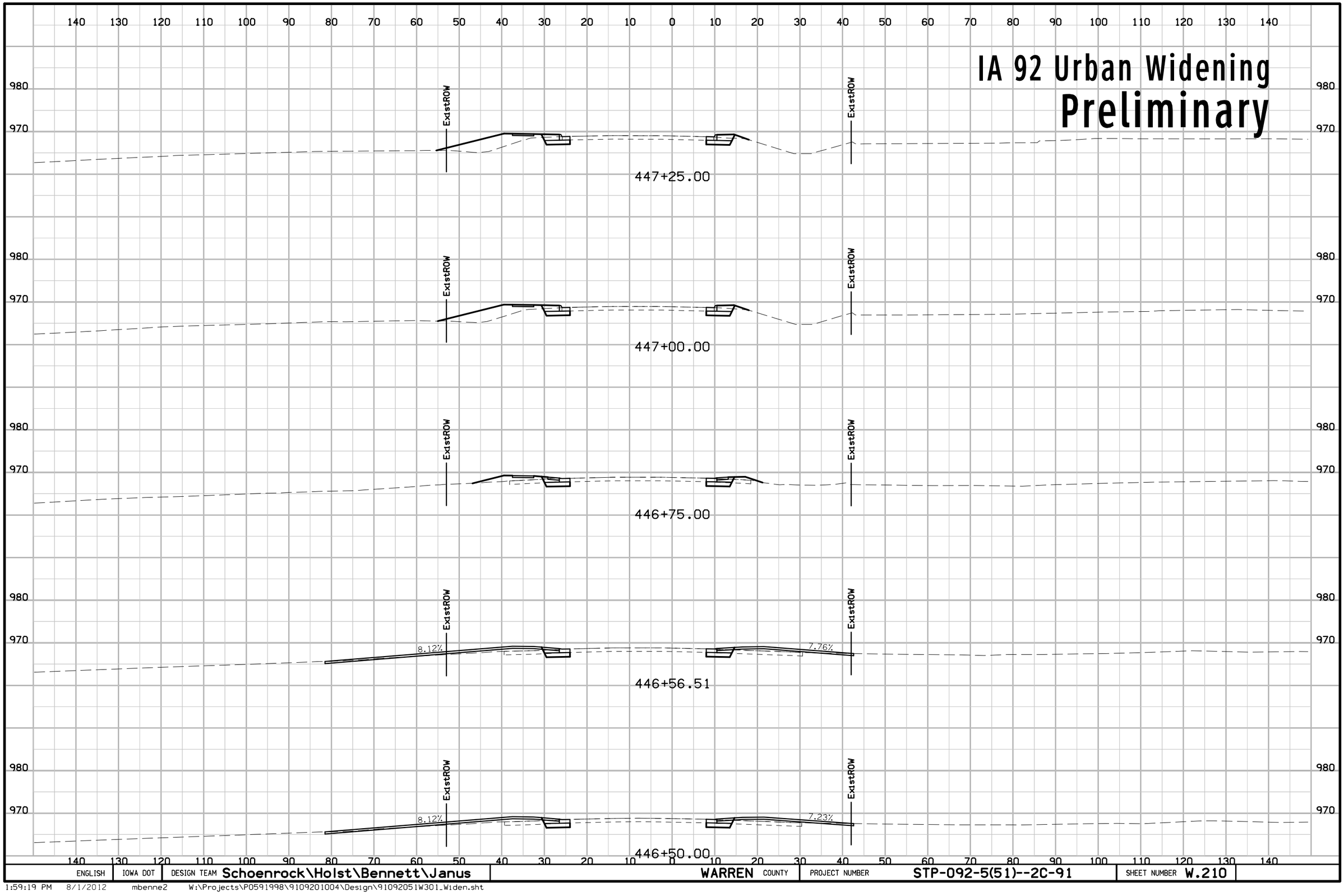
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.210

1:59:19 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W301_Widen.sht

IA 92 Urban Widening
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980
970

ExistROW

9.69%

448+17.01

980
970

ExistROW

448+00.00

980
970

ExistROW

10.13%

ExistROW

447+75.00

980
970

ExistROW

10.25%

ExistROW

447+68.44

980
970

ExistROW

11.19%

ExistROW

447+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.211

1:59:20 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W301_Widen.sht

IA 92 Urban Widening
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980
970

ExistROW

449+00.00

448+75.00

448+54.51

7.01%

448+50.00

6.85%

448+25.00

9.87%

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.212

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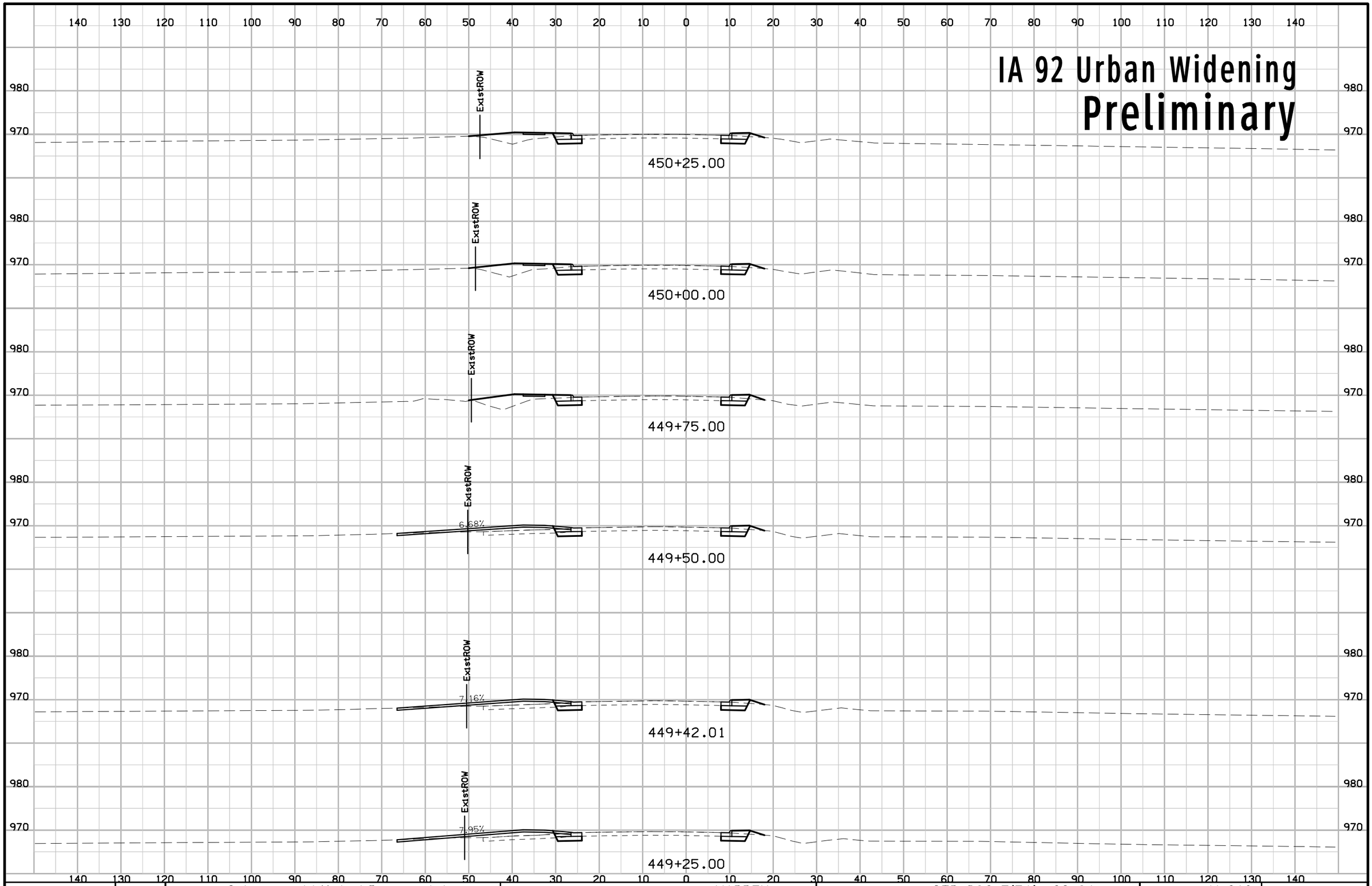
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.213

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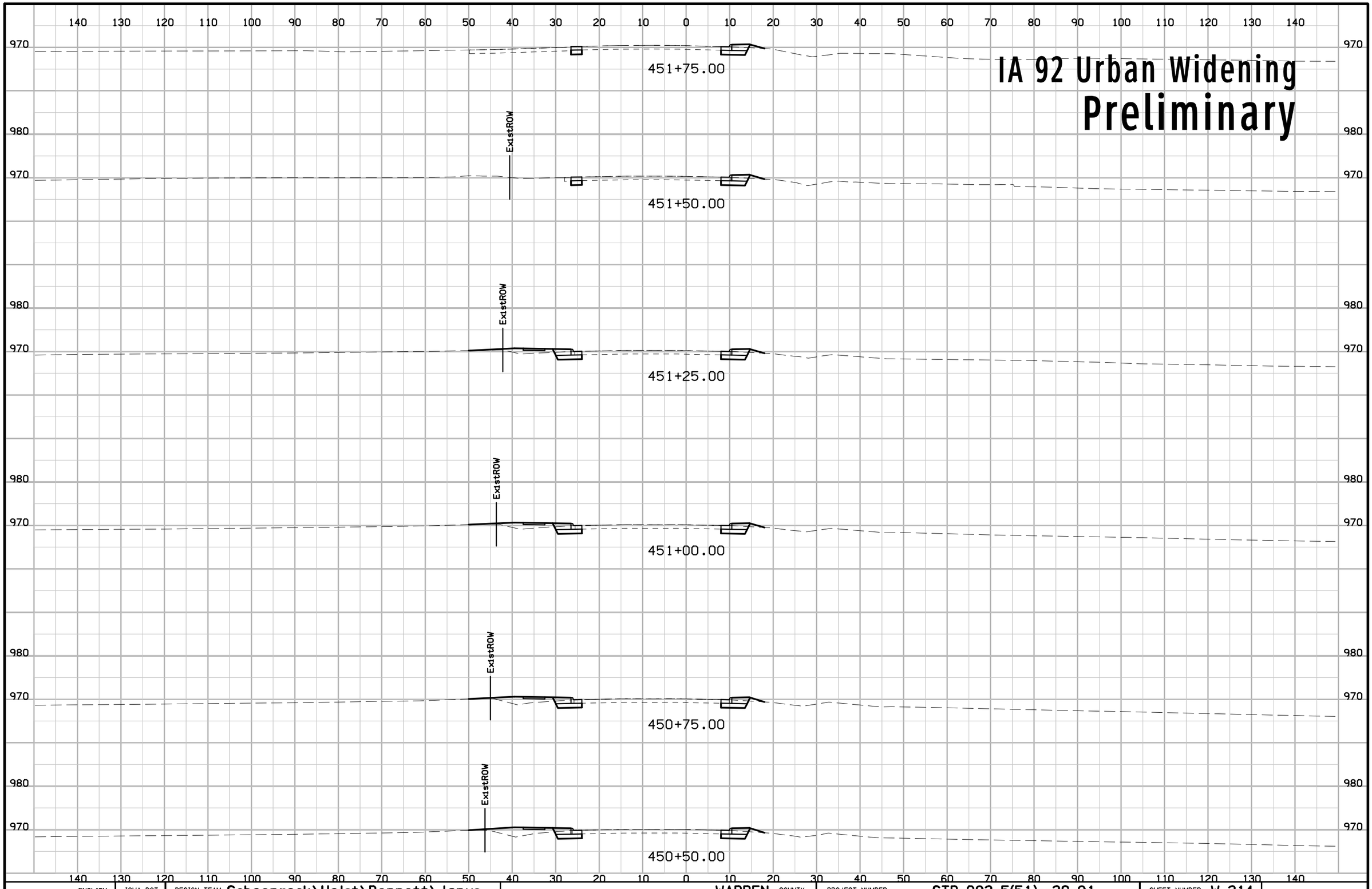
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.214

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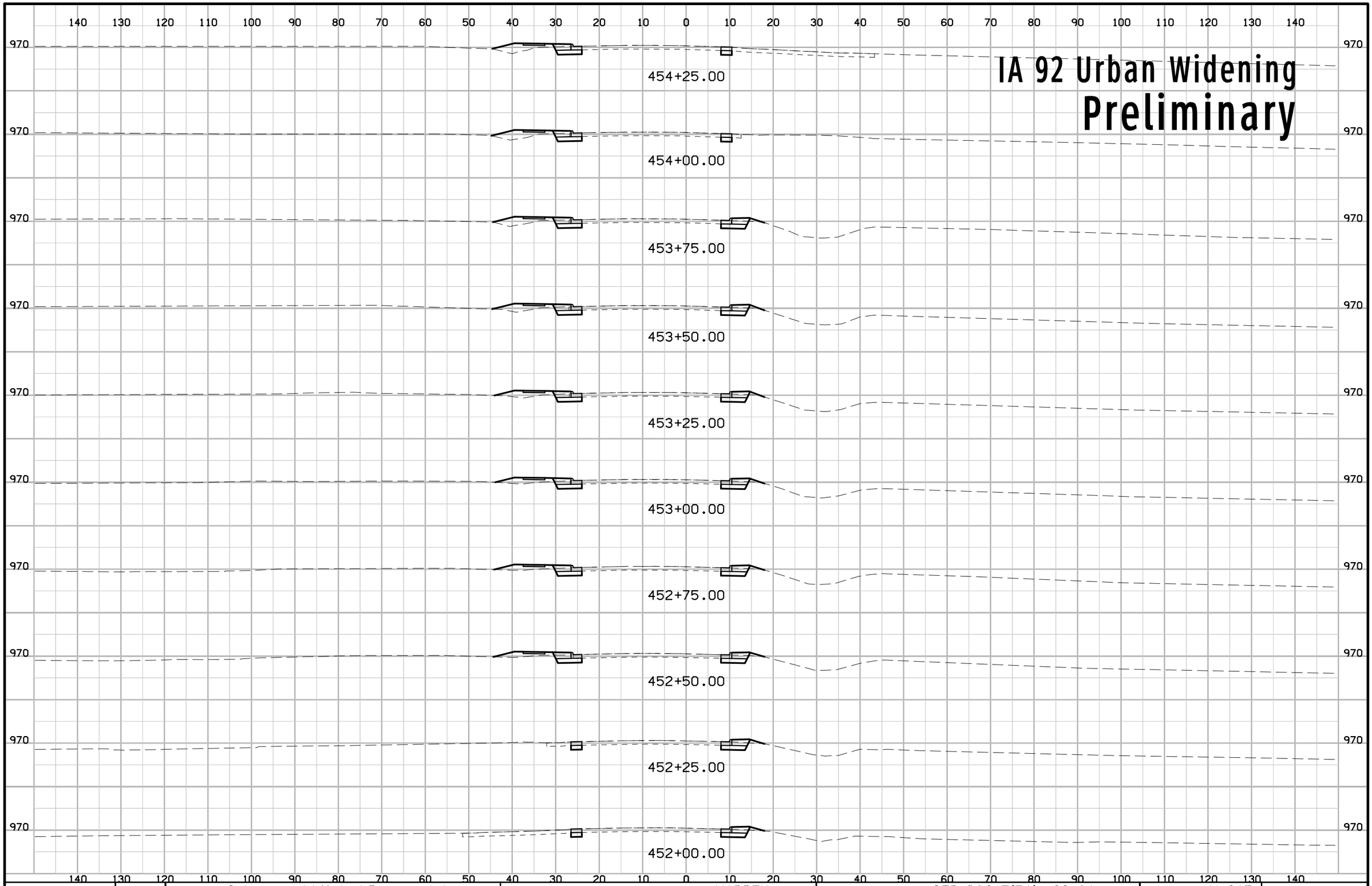
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.215

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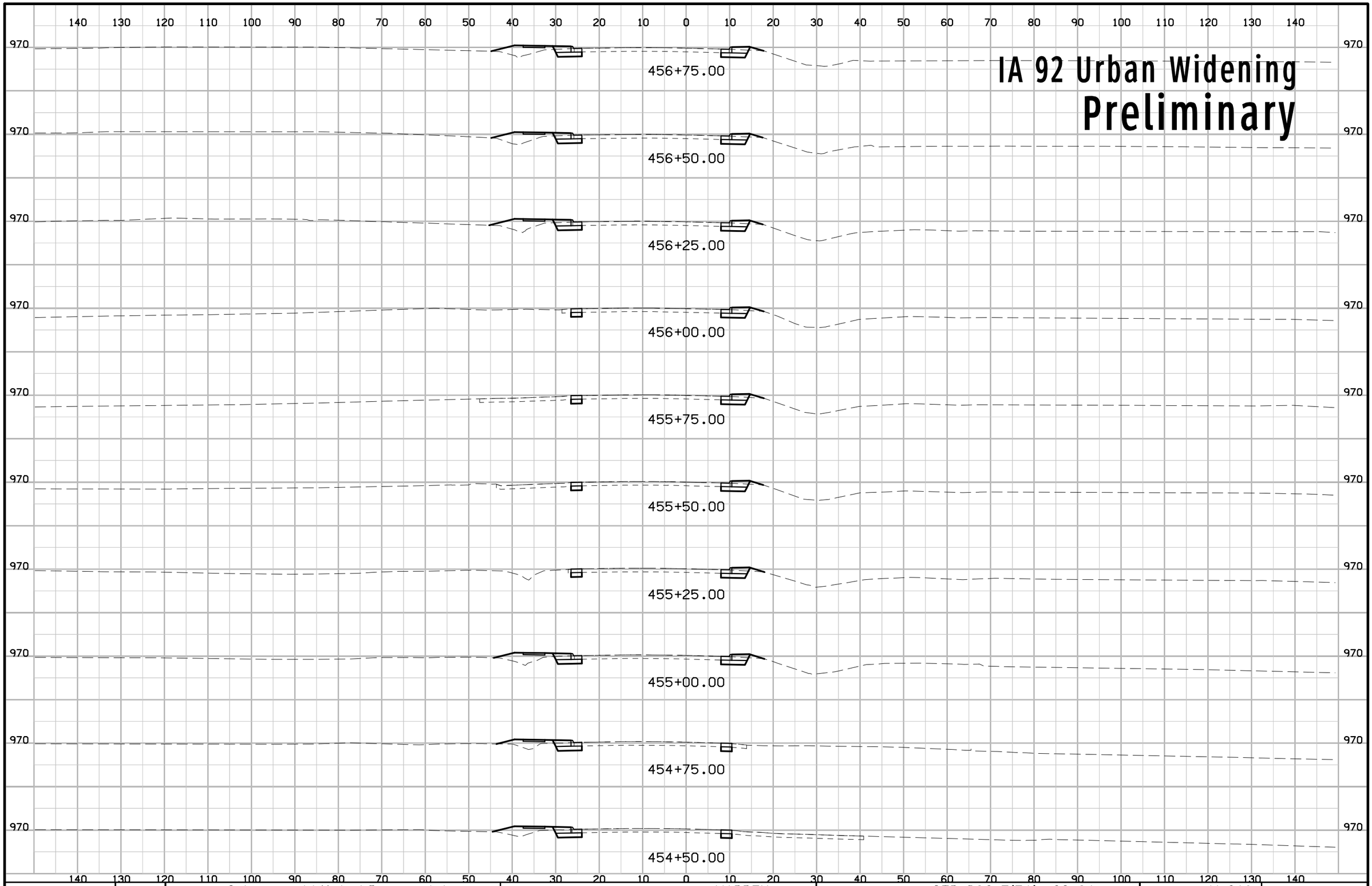
IA 92 Urban Widening
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.216

1:59:21 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W301_Widen.sht

IA 92 Urban Widening
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

459+00.00

970 6.05% 970

458+76.10

970 6.00% 970

458+75.00

458+50.00

970 970

458+25.00

458+00.00

970 970

457+75.00

970 970

457+50.00

970 970

457+25.00

970 970

457+00.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.217

1:59:21 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W301_Widen.sht

IA 92 Urban Widening
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

970

6.01%

461+25.00

461+00.00

460+75.00

460+50.00

970

5.97%

460+25.00

970

5.57%

460+15.20

460+00.00

459+75.00

459+50.00

459+25.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.218

1:59:22 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W301_Widen.sht

IA 92 Urban Widening

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

970

463+25.00

463+00.00

462+75.00

970

462+50.00

462+25.00

462+00.00

461+75.00

461+50.00

970

6.12%

461+34.29

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.219

1:59:22 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W301_Widen.sht

IA 92 Urban Widening
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

464+92.00

464+75.00

464+50.00

464+25.00

970

464+00.00

970

463+75.00

970

463+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

970

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER W.220

1:59:22 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051W301_Widen.sht

KENNEDY ST

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

960

950

Existing ROW

1257+25.00

950.89
15.00
949.76
18.38
3:1
949.76
23.38
3:1
951.42
28.33

1257+10.00

950.48
15.00
949.30
16.75
3:1
949.98
21.93
3:1

1257+00.00

1256+75.00

1256+50.00

1256+25.00

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.1

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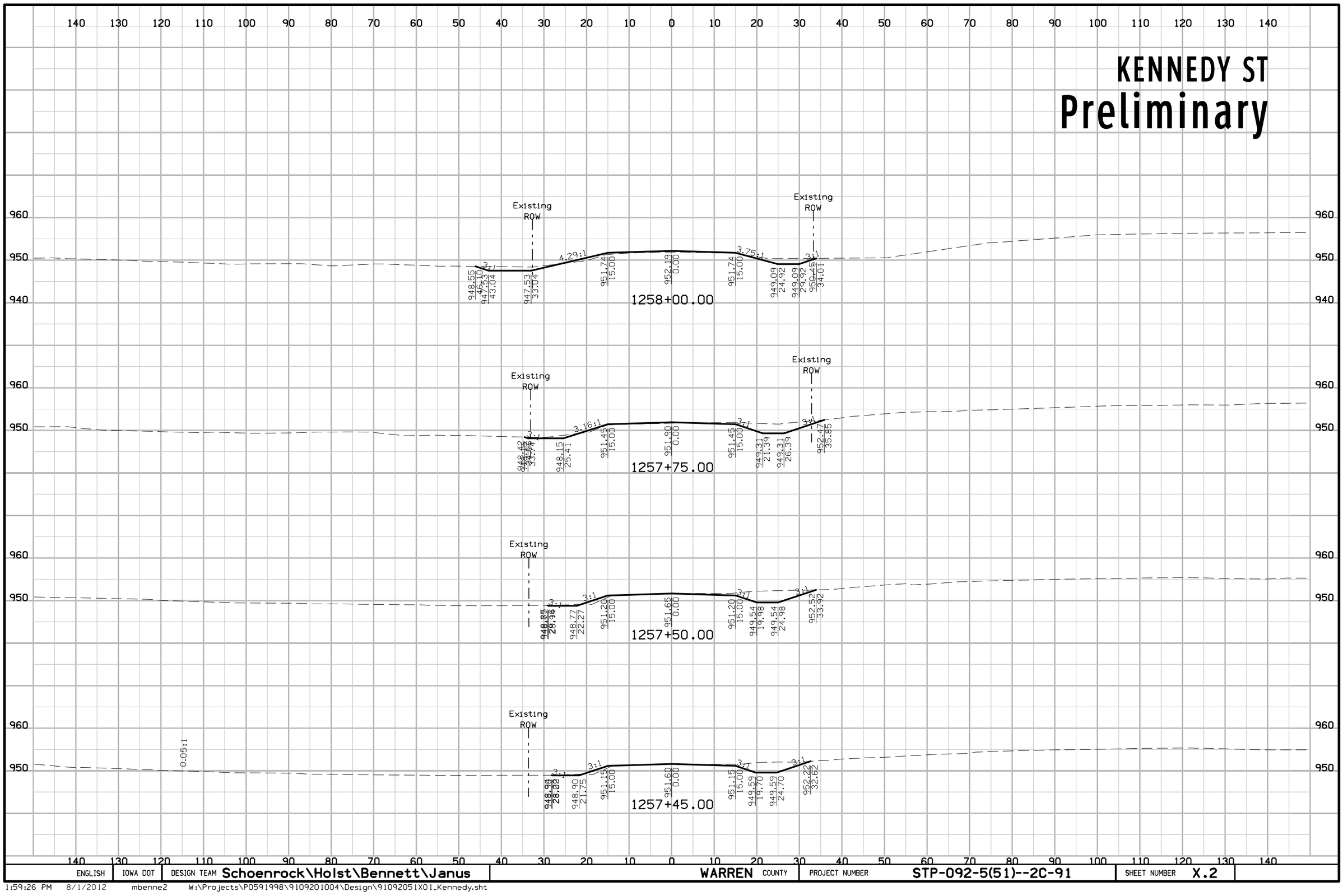
KENNEDY ST

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.2

1:59:26 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051X01_Kennedy.sht

KENNEDY ST

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

960
950

ML proposed Grading

Existing ROW

952.60 12.00 | 952.96 0.00 | 953.08 22.34

1258+50.00

960
950
940

Existing ROW

Existing ROW

952.18 12.19 | 952.57 0.00 | 952.14 15.49 | 7.65:1 | 948.87 40.45

Skewed cross section 10°

Proposed Pipe

1258+27.00

960
950

Existing ROW

Existing ROW

Existing ROW

952.18 12.00 | 952.54 0.00 | 952.09 15.01 | 5.43:1 | 948.87 32.49 | 3.04:1 | 948.87 42.55 | 950.36 47.07

1258+25.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.3

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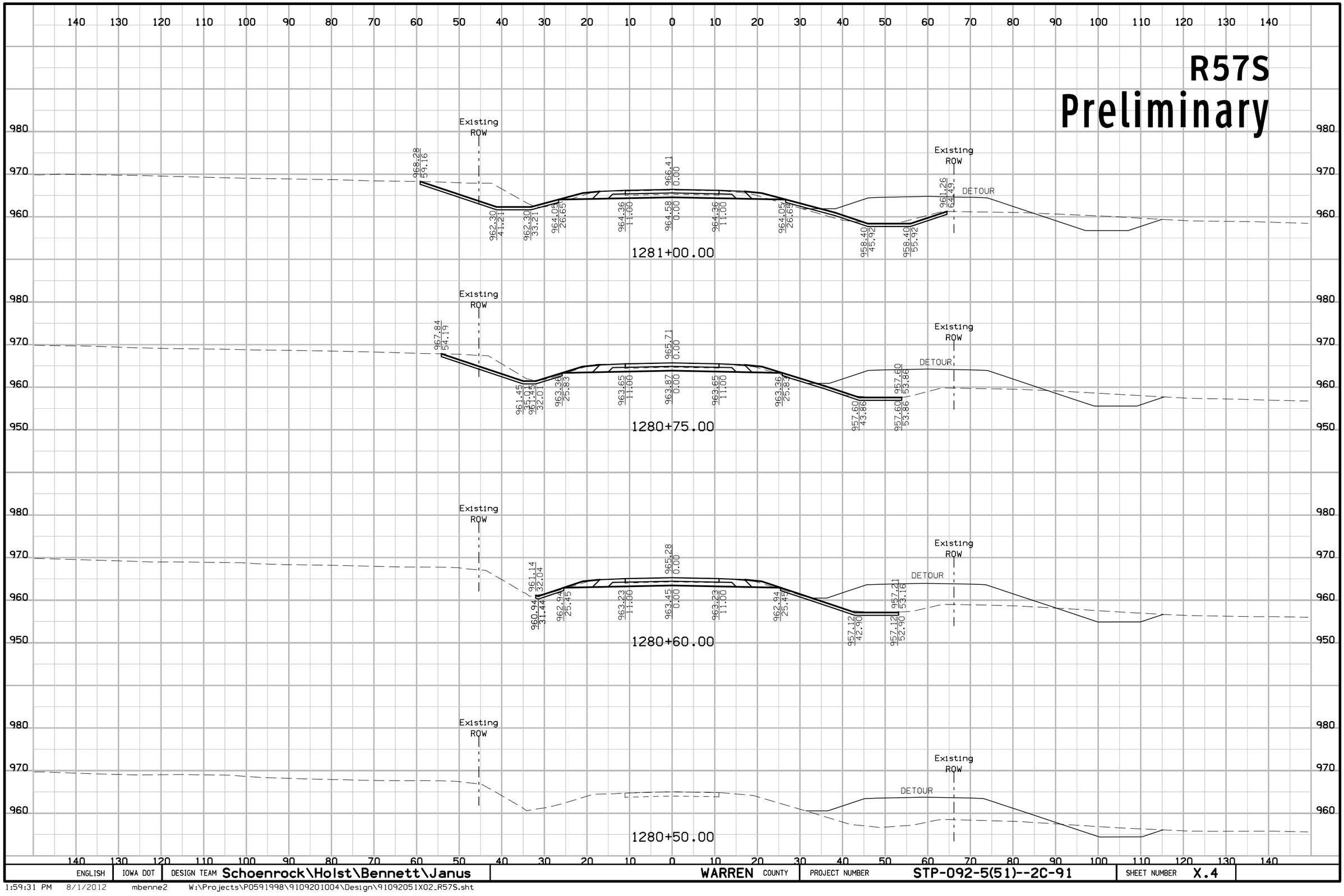
R57S
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.4

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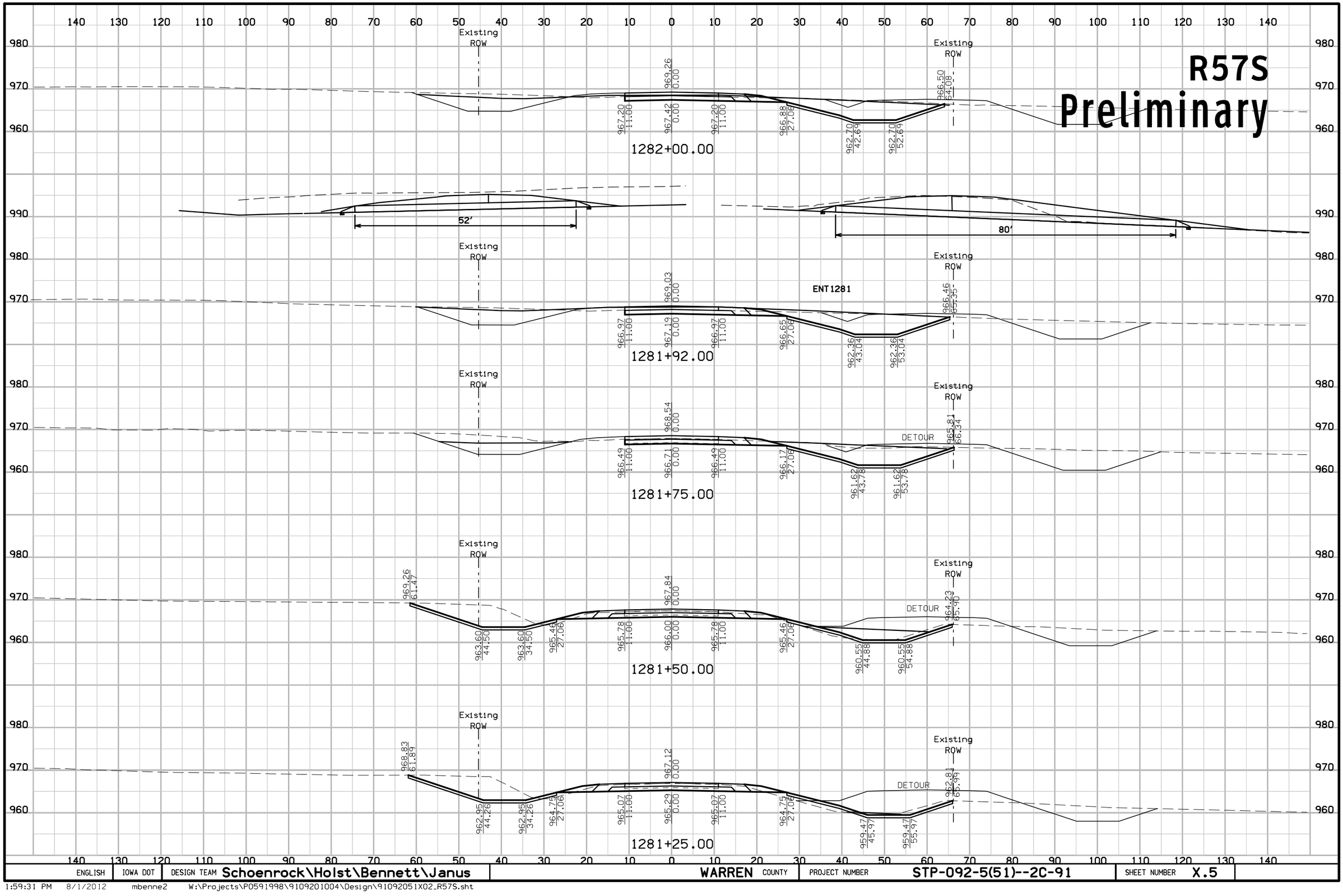
R57S
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.5

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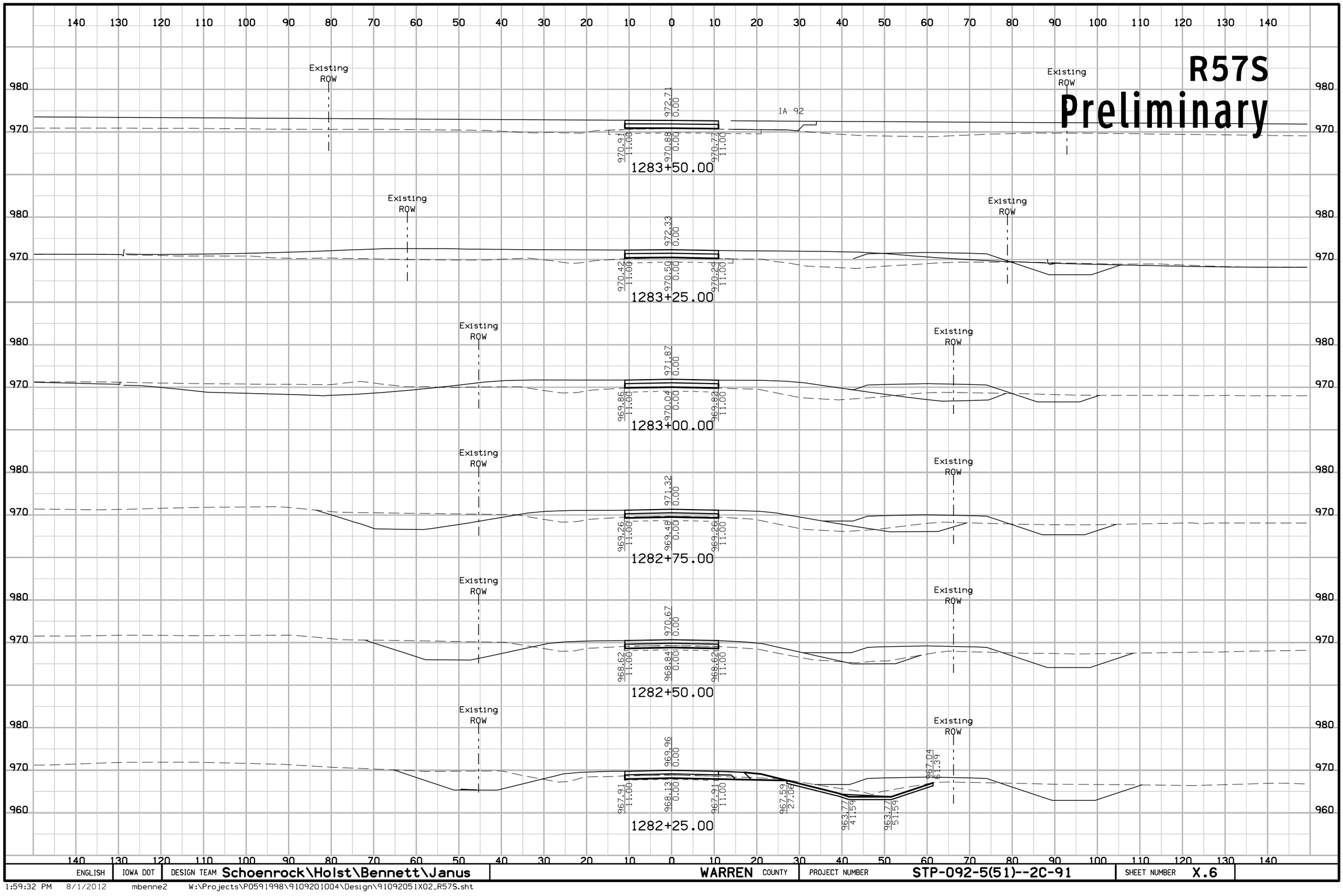
R57S
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.6

1:59:32 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051X02_R57S.sht

R57N
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980 / 970

Existing ROW

970.83 0.00

968.78 11.00 | 969.00 0.00 | 968.78 11.00

DETOUR

1385+00.00

Existing ROW

971.21 0.00

969.16 11.00 | 969.38 0.00 | 969.16 11.00

DETOUR

1384+75.00

Existing ROW

971.65 0.00

969.69 11.00 | 969.82 0.00 | 969.60 11.00

DETOUR

1384+50.00

Existing ROW

972.14 0.00

970.29 11.00 | 970.31 0.00 | 970.17 11.00

1384+25.00

1384+00.00

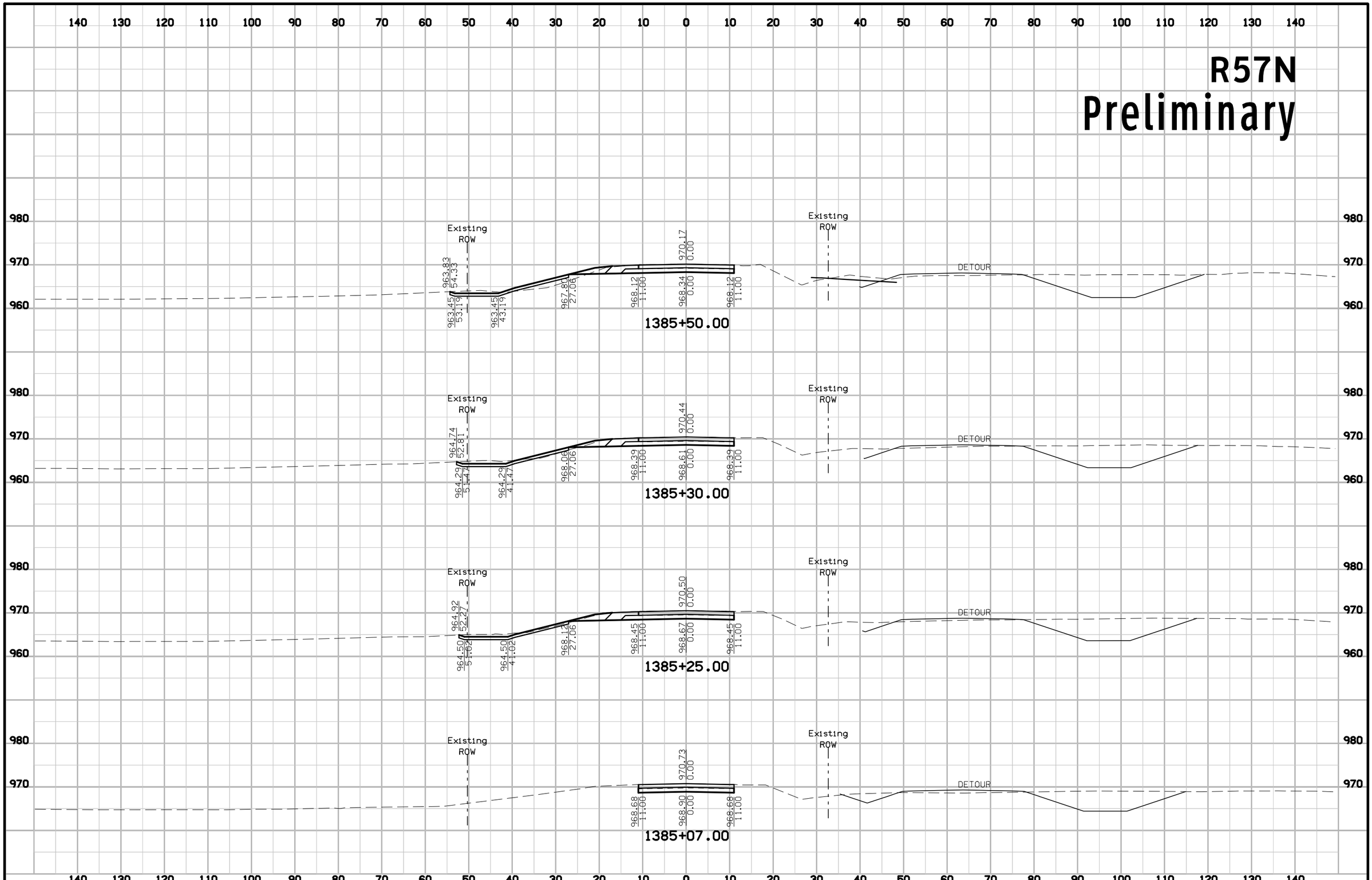
1383+75.00

1383+68.17

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.7

1:59:36 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051X03_R57N.sht

R57N
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.8

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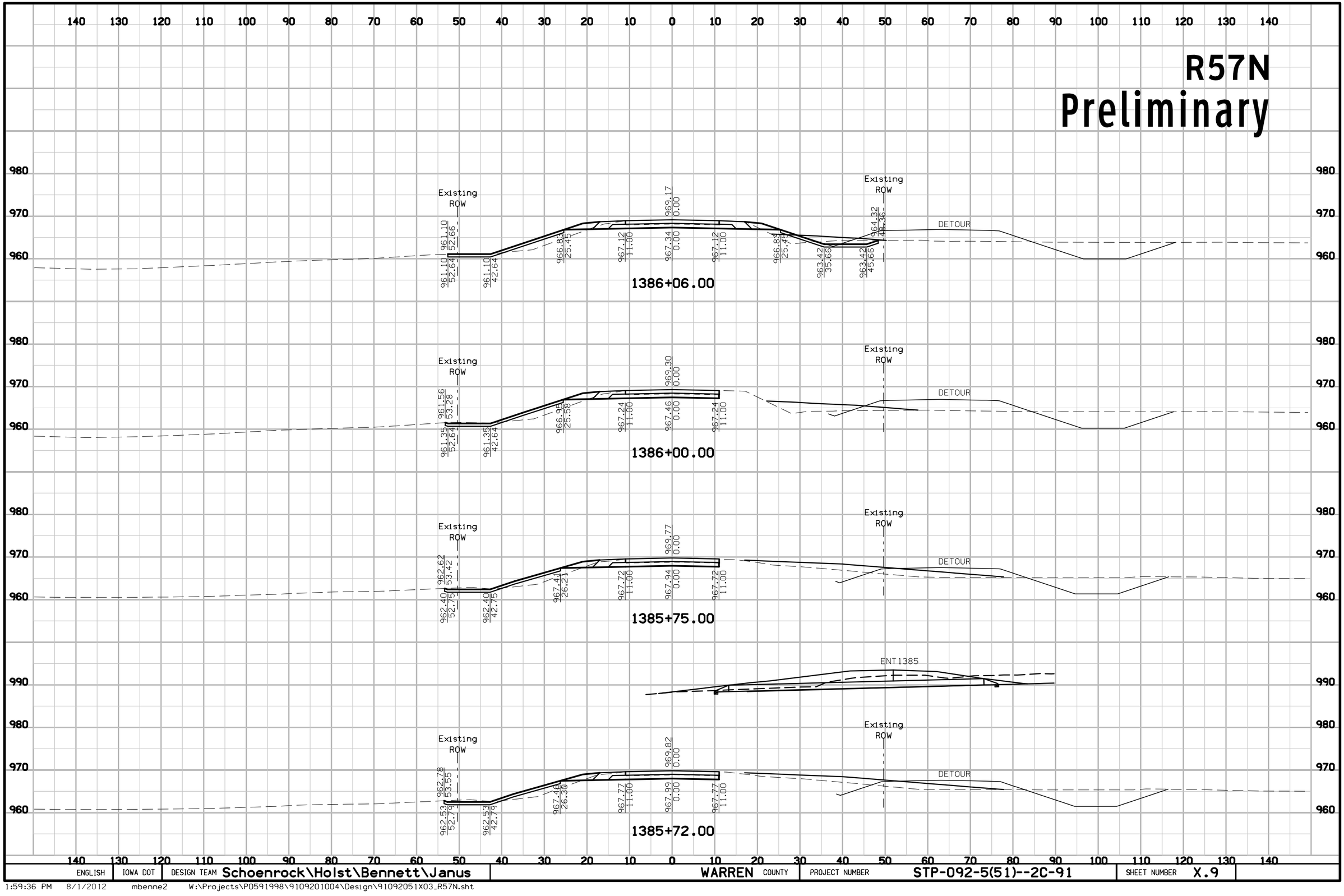
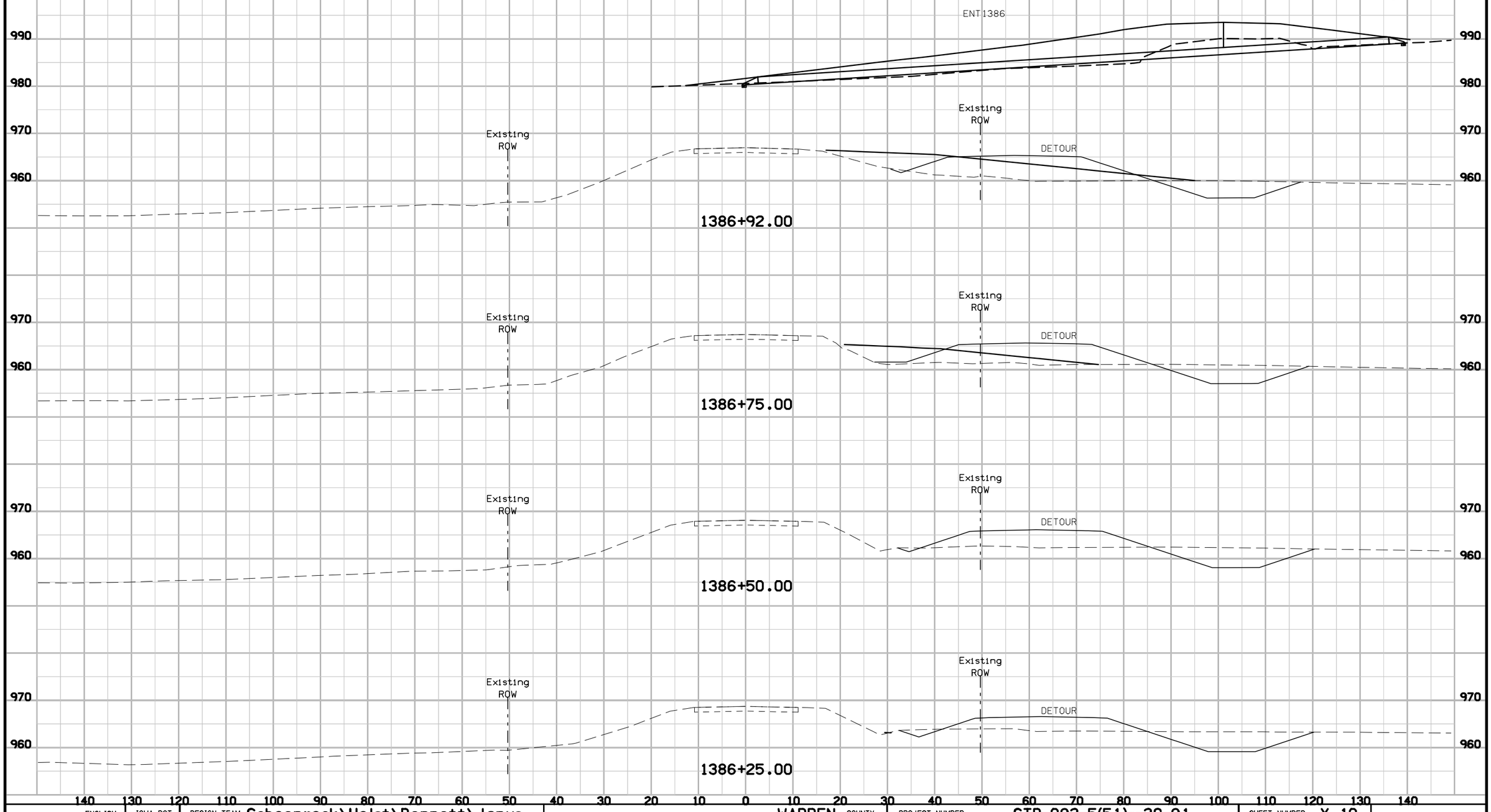
R57N
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.9

1:59:36 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051X03_R57N.sht

R57N
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.10

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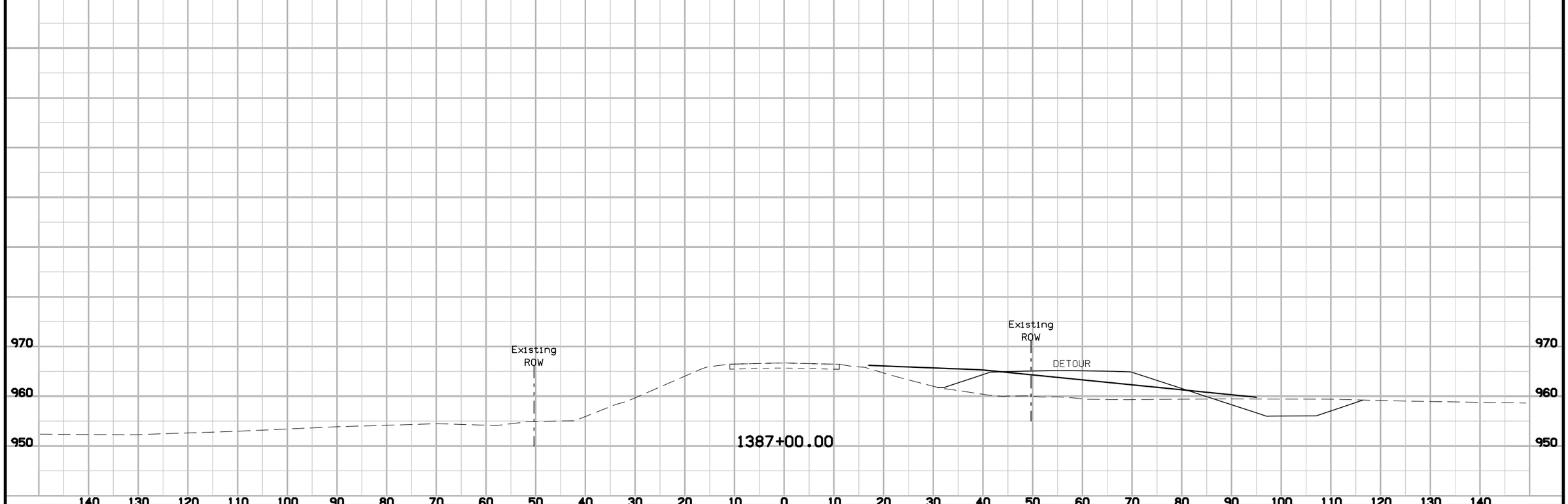
R57N
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.11

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90TH AVE
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

970
960

Existing ROW

Existing ROW

2305+75.00

970
960
950

Existing ROW

Existing ROW

2305+50.00

970
960
950
940

Existing ROW

Existing ROW

2305+25.00

970
960
950
940

Existing ROW

Existing ROW

2305+00.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.12

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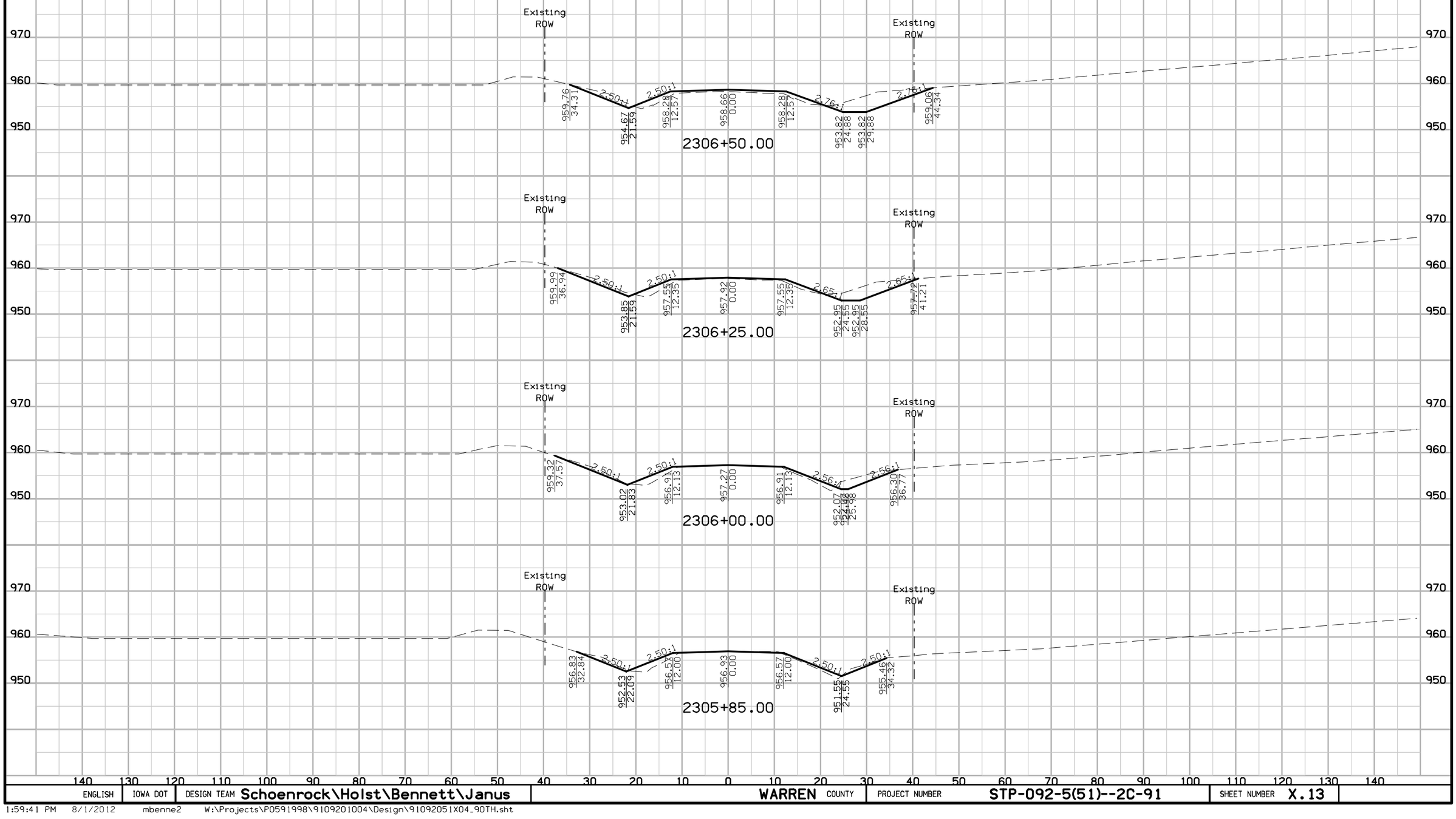
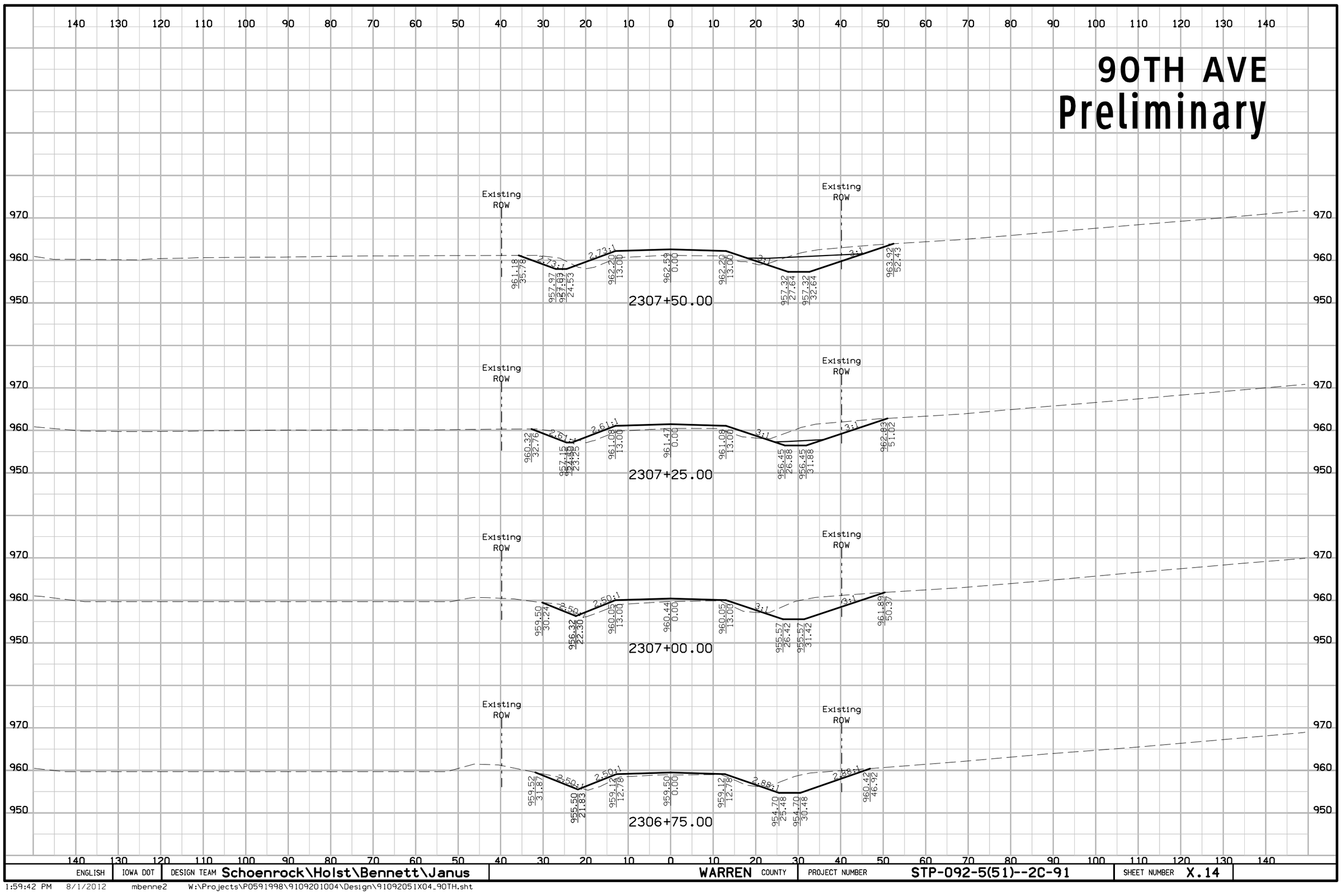
90TH AVE
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.13

90TH AVE
Preliminary



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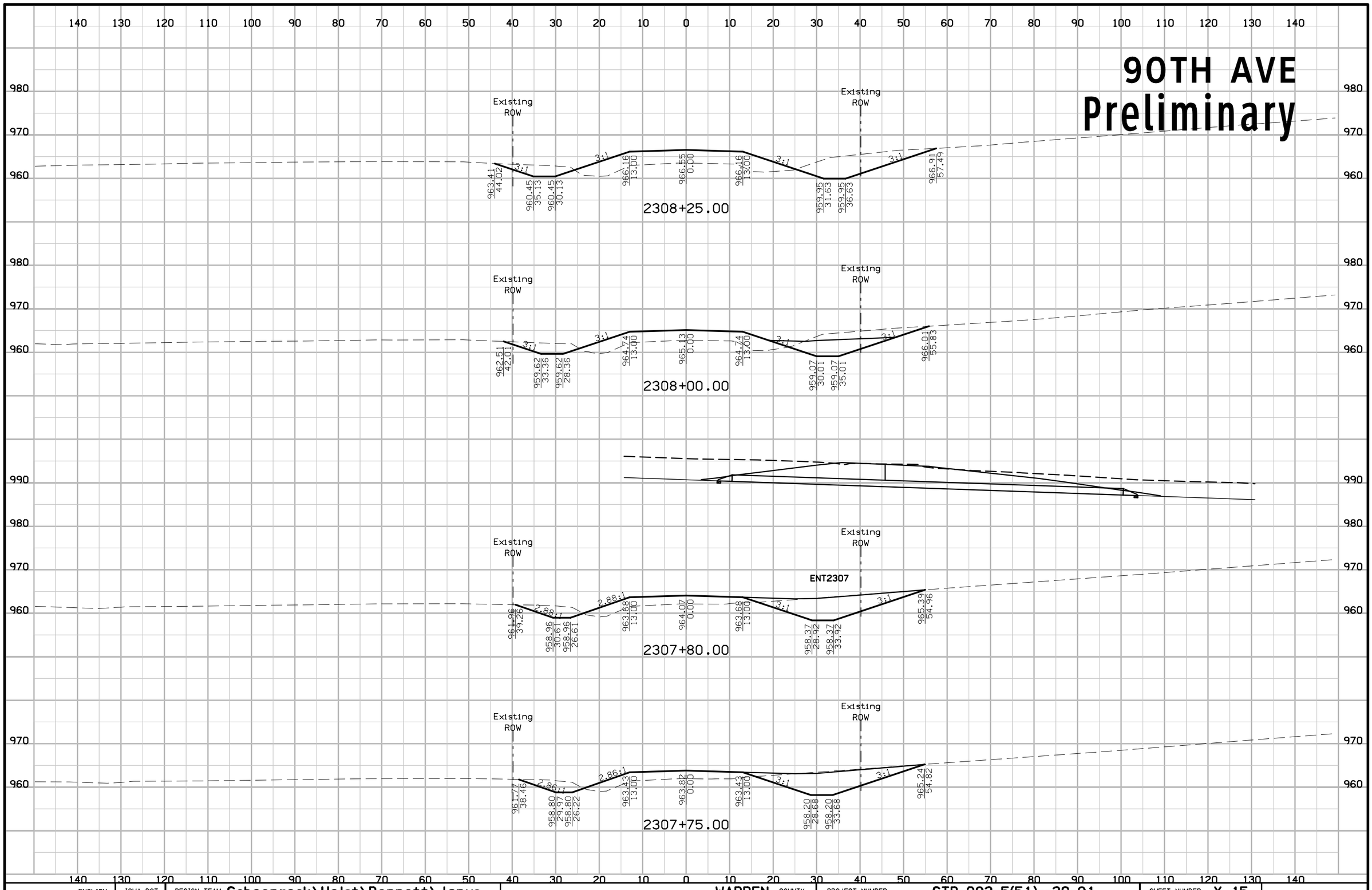
90TH AVE
Preliminary



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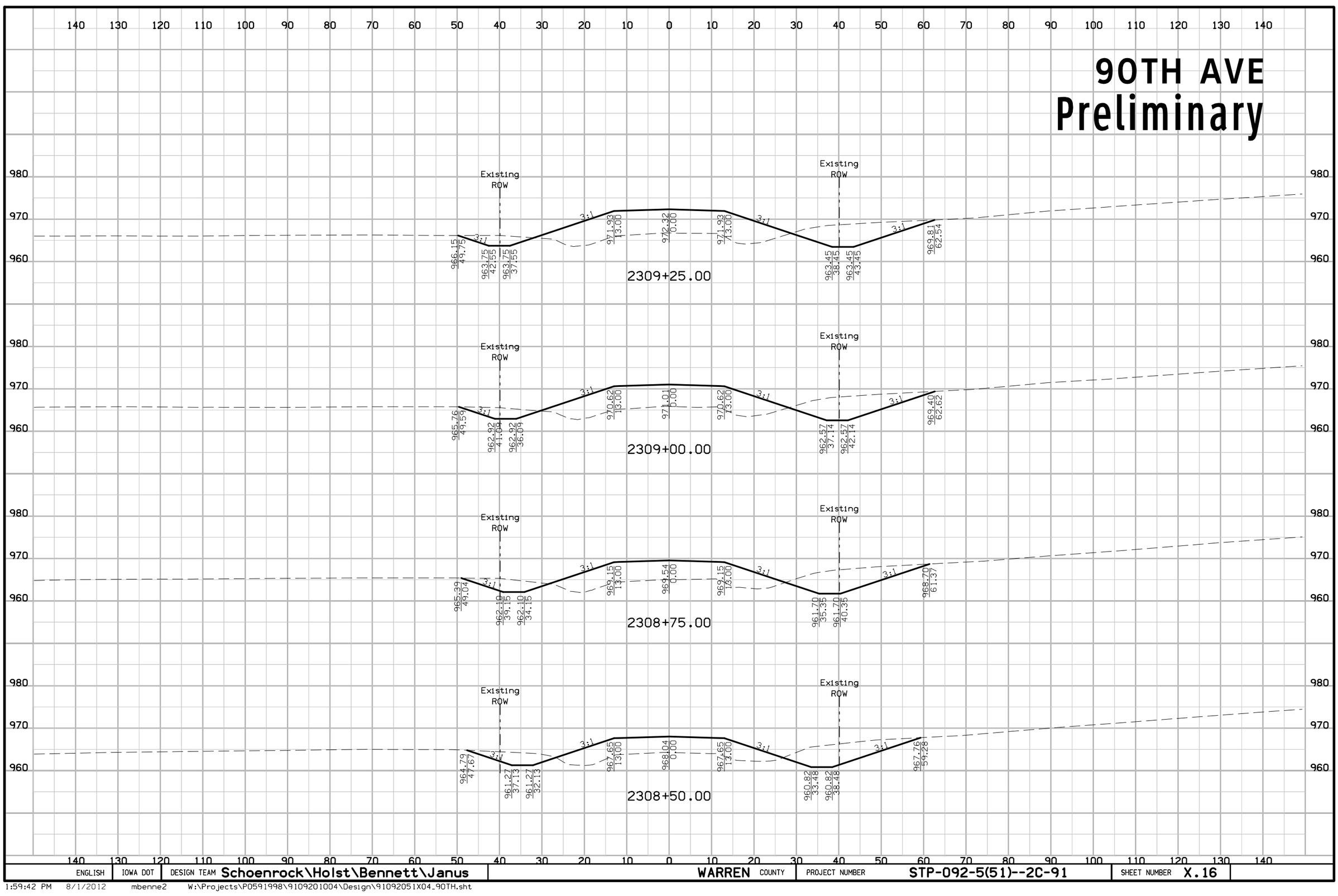
90TH AVE
Preliminary



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90TH AVE
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980
970

Existing ROW

974.64 12.00 | 974.90 0.00 | 974.60 12.00

2310+88.00

974.90 12.00 | 975.04 0.00 | 974.82 12.00

2310+75.00

970

2310+50.00

970

2310+25.00

980
970

Existing ROW

974.88 14.00 | 975.24 0.00 | 974.88 12.00

2310+00.00

980
970

Existing ROW

974.08 12.00 | 974.44 0.00 | 974.08 12.00

2309+75.00

980
970
960

Existing ROW

966.42 57.50 | 964.57 51.96 | 964.57 43.26 | 973.07 13.00 | 973.46 0.00 | 973.07 13.00 | 964.32 44.01 | 964.32 52.71 | 971.12 73.09

3.95:1 3:1 3.95:1 3:1

2309+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.17

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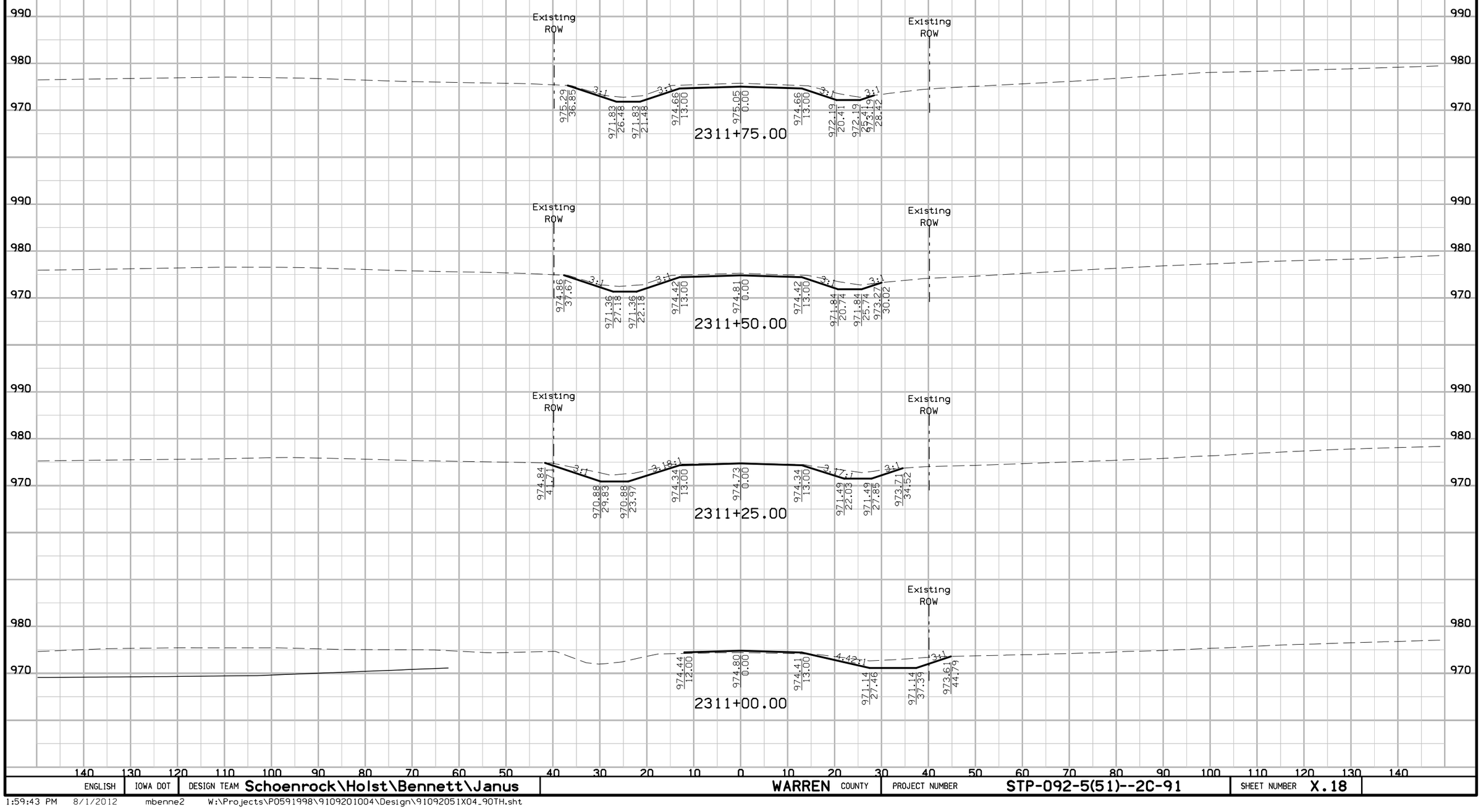
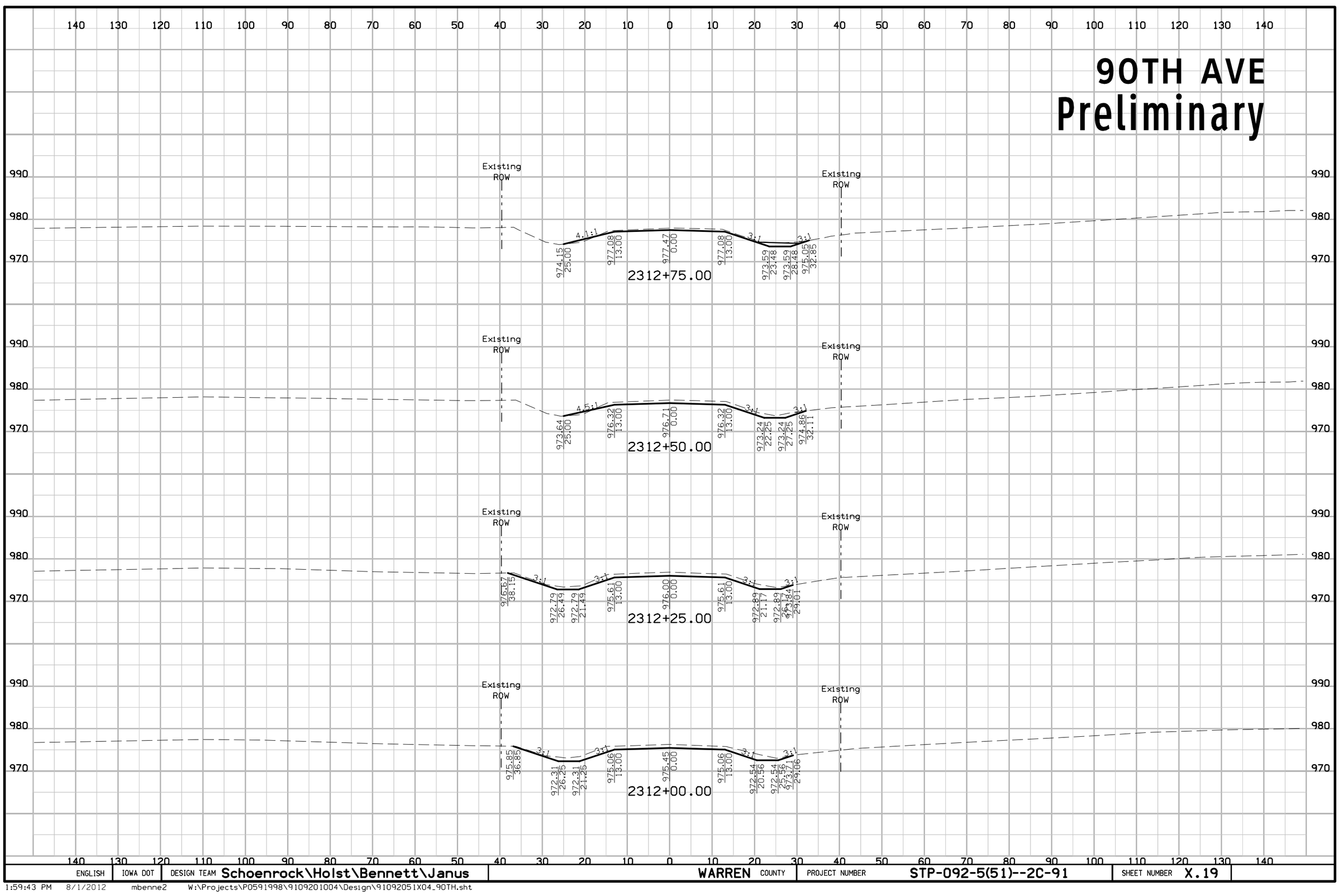
90TH AVE
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.18

90TH AVE
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.19

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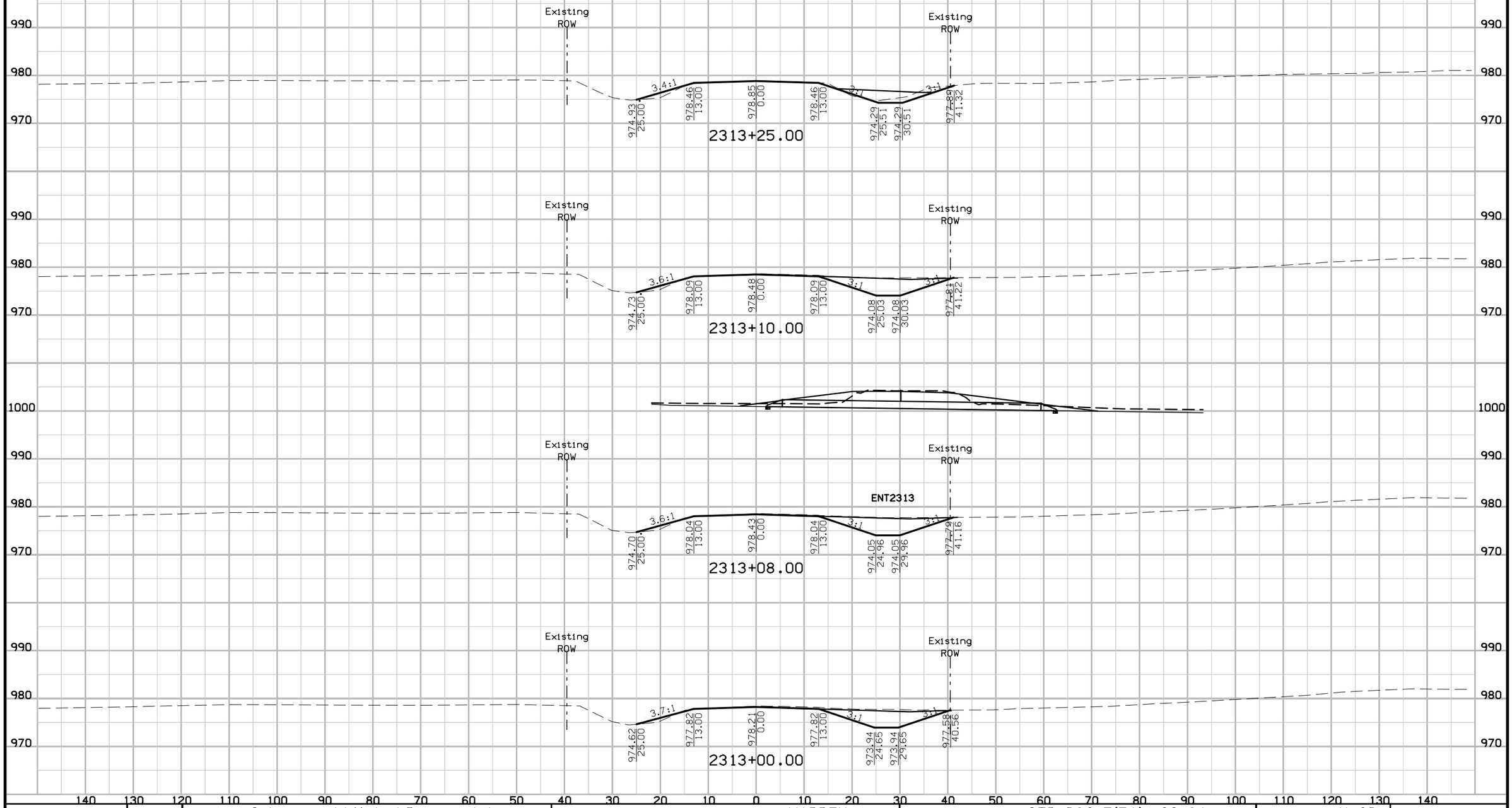
90TH AVE
Preliminary



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ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.21

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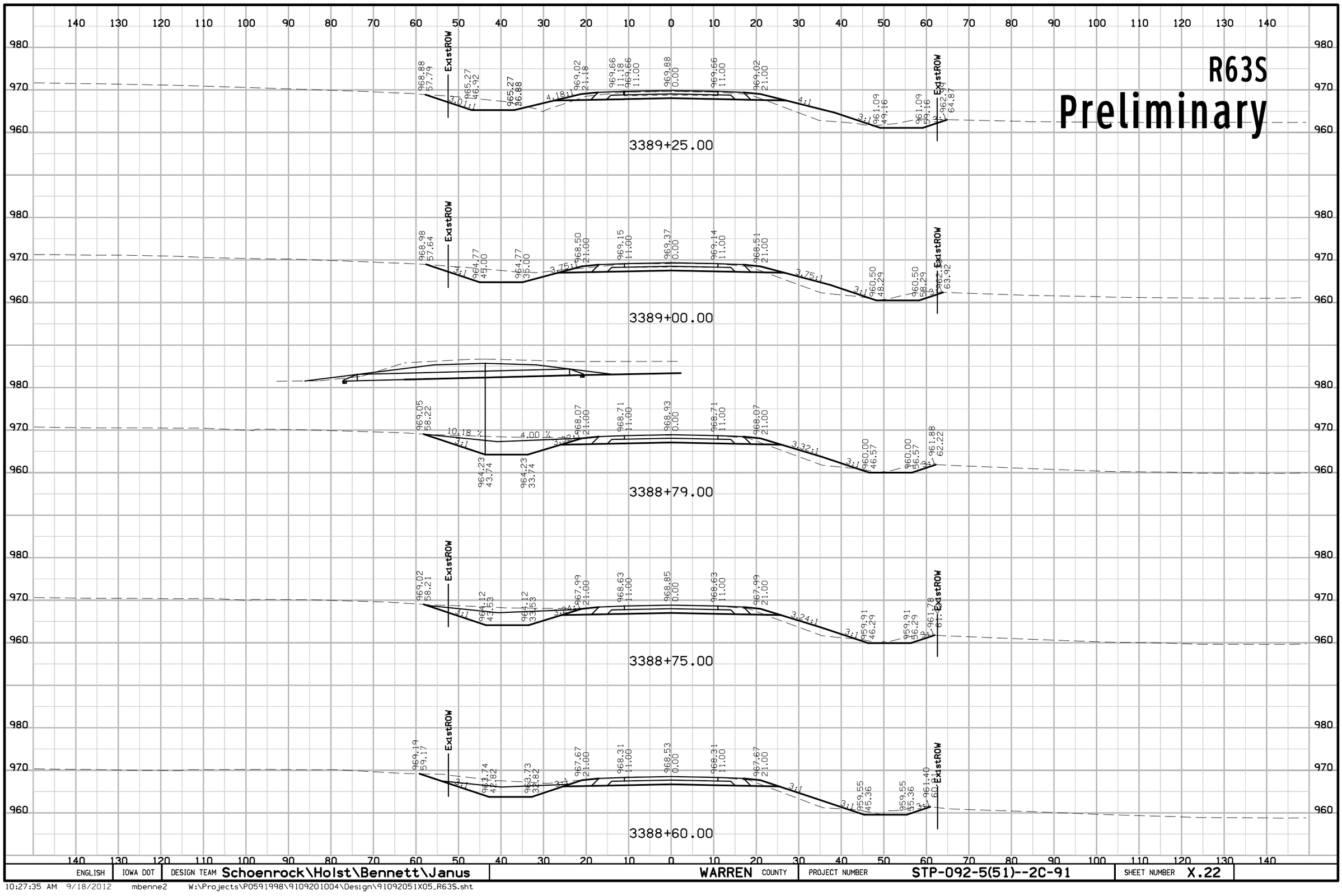
R63S

Preliminary



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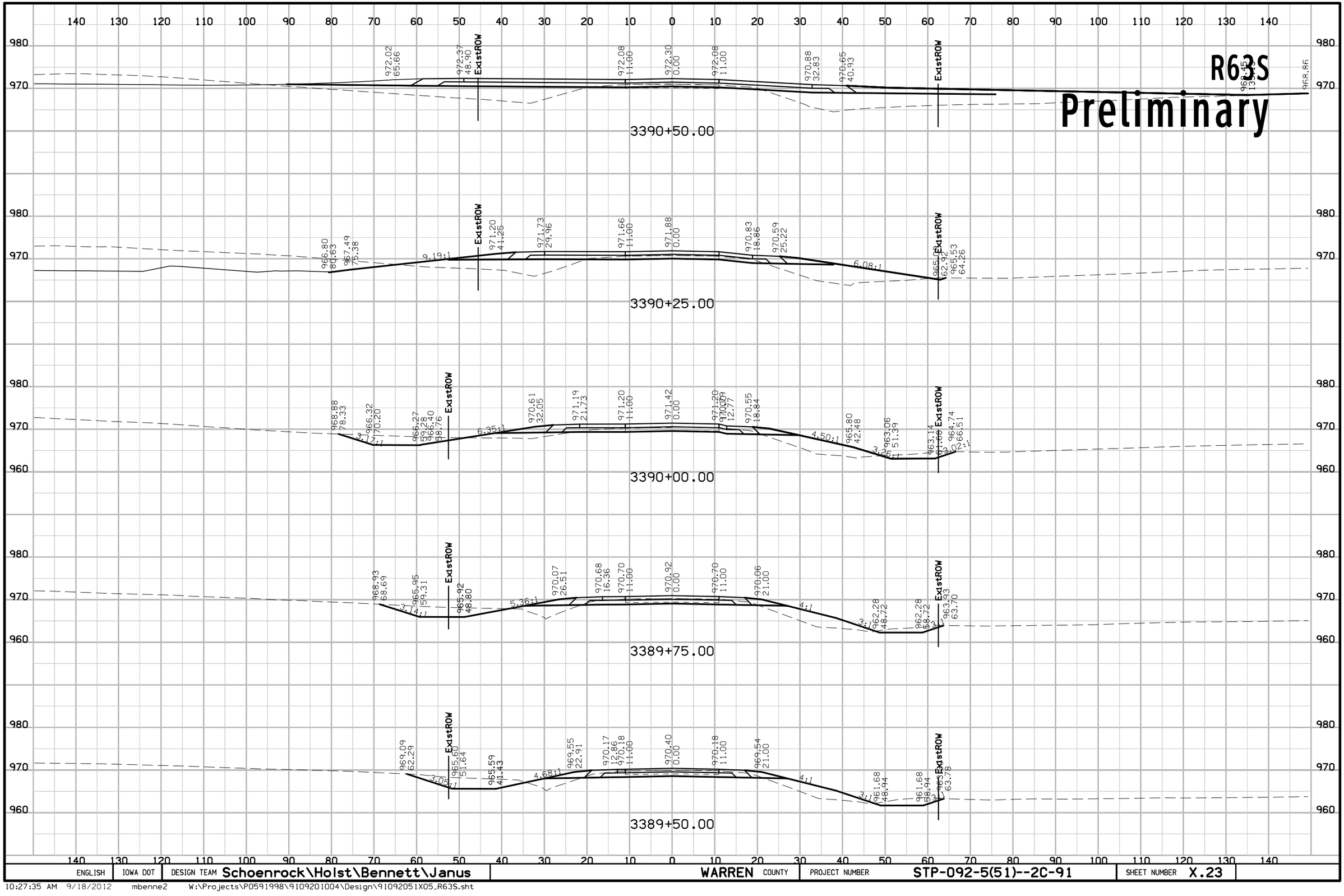
R63S

Preliminary



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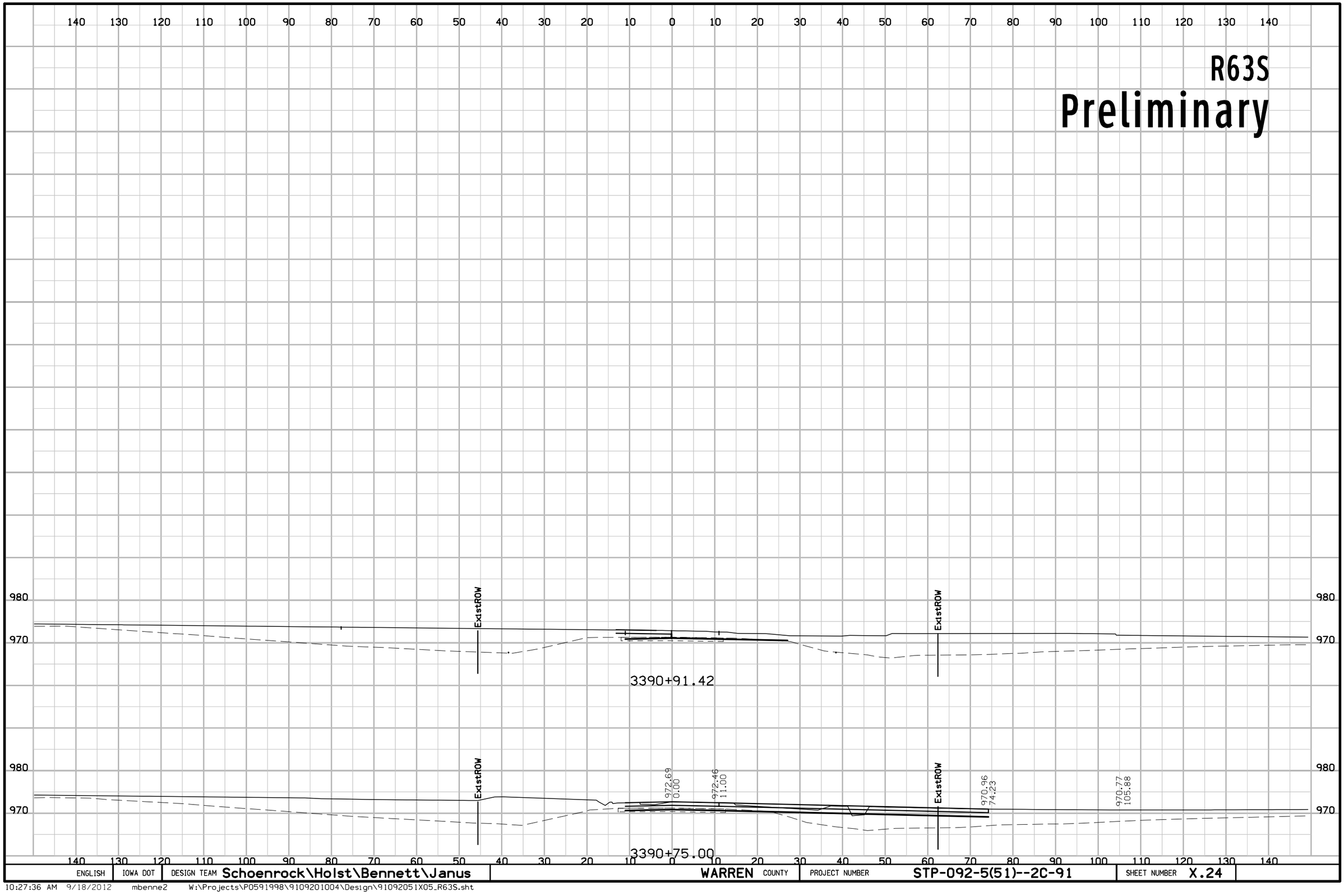
R63S

Preliminary



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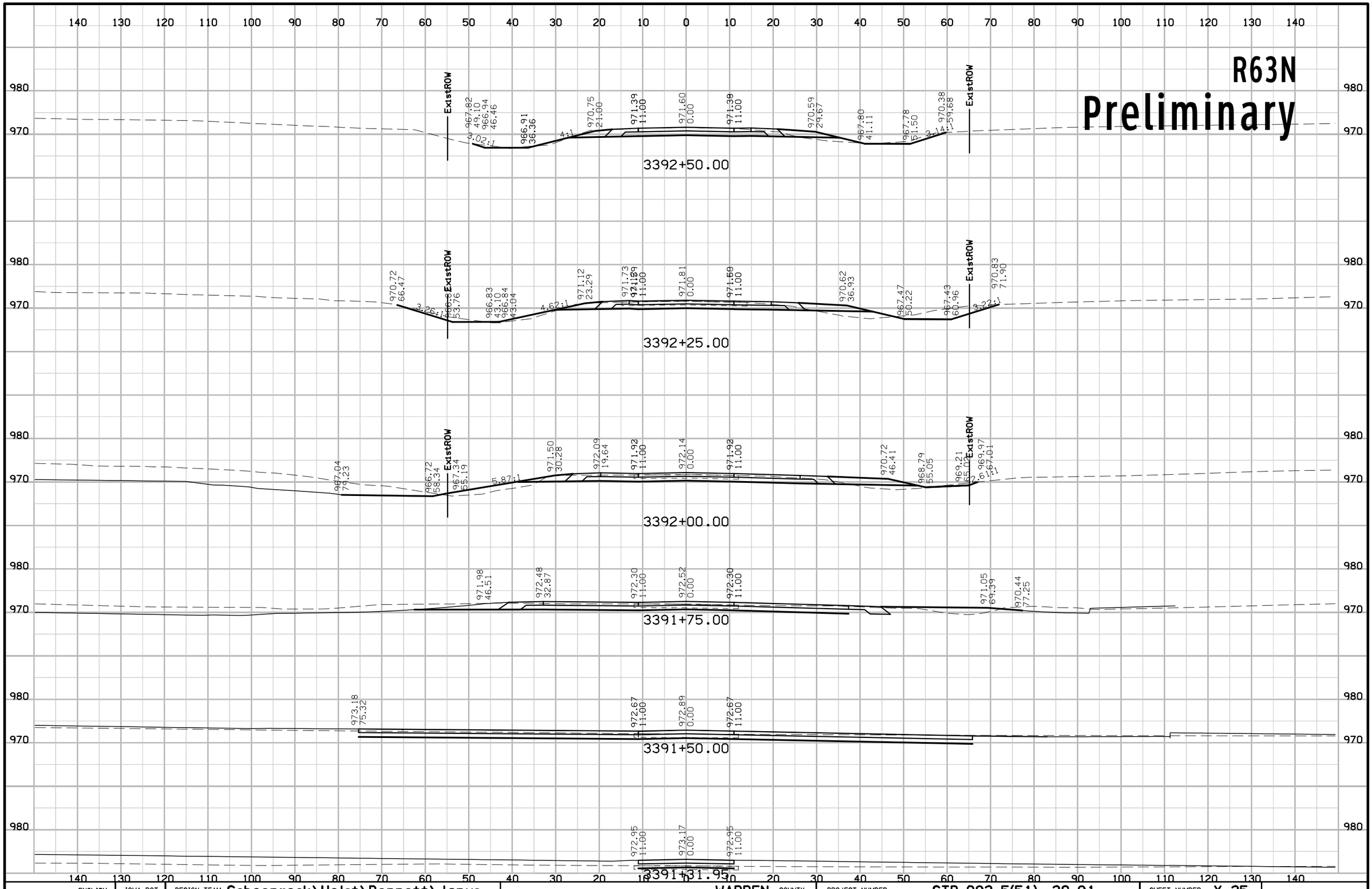
R63N

Preliminary



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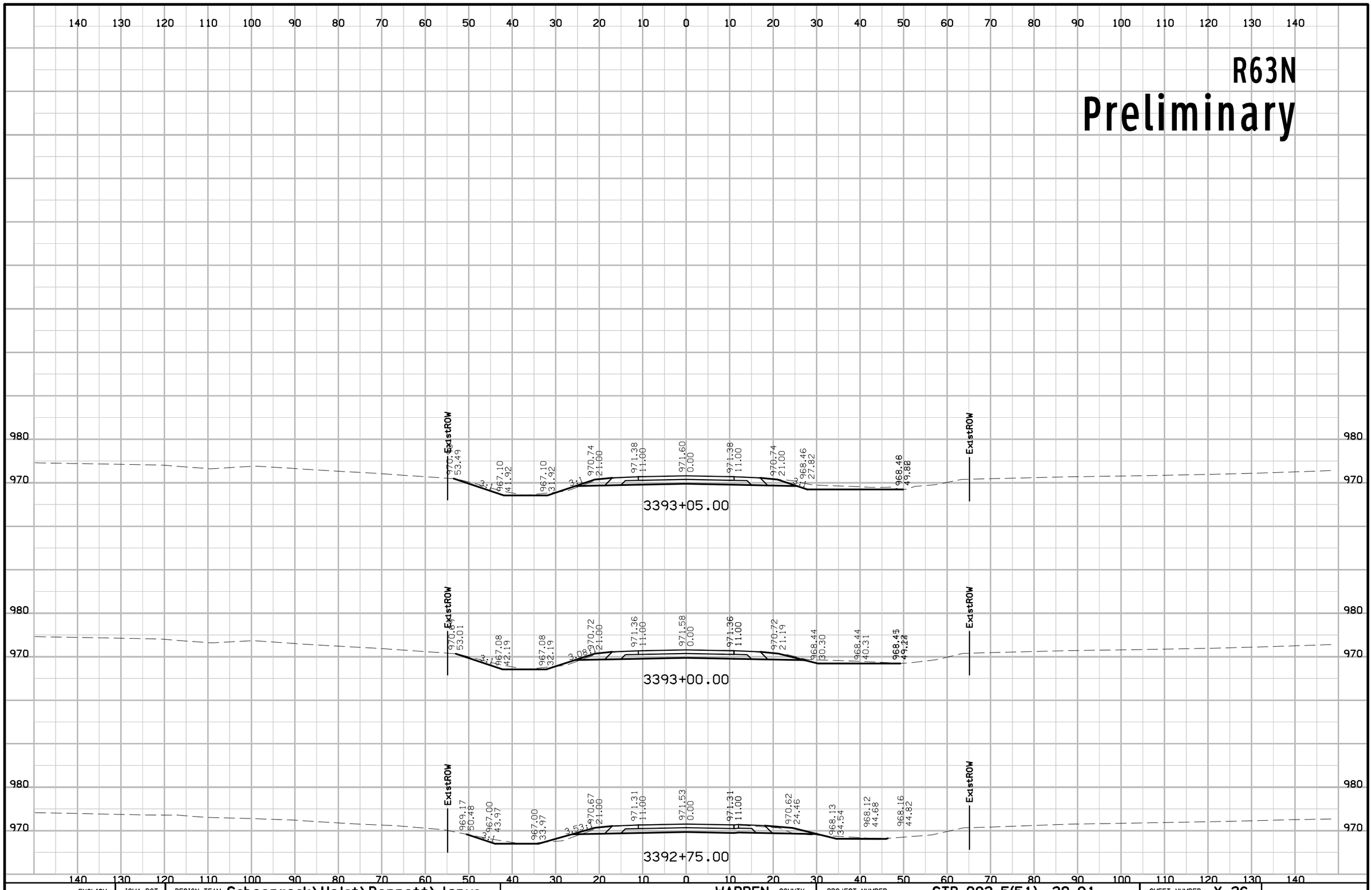
R63N

Preliminary



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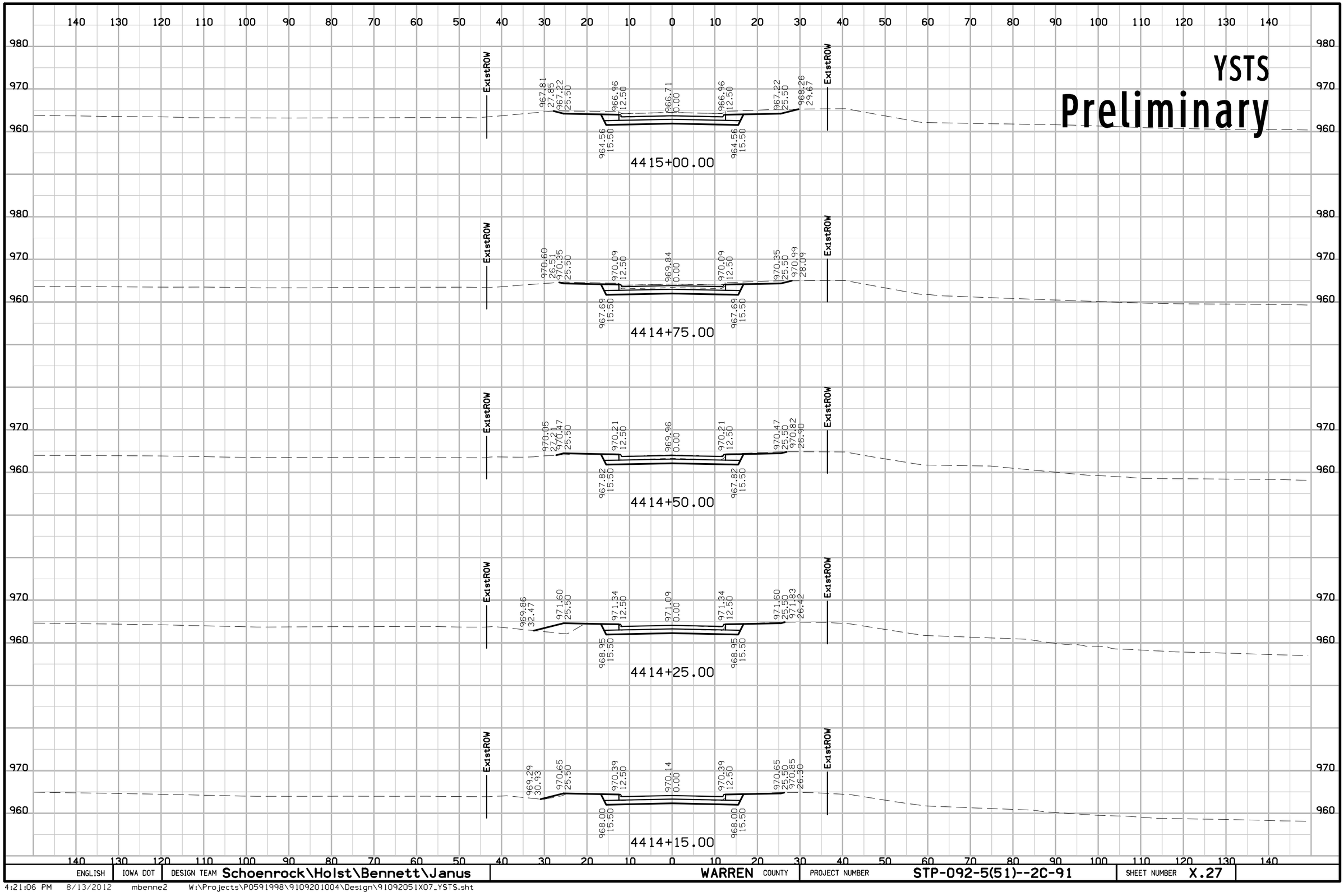
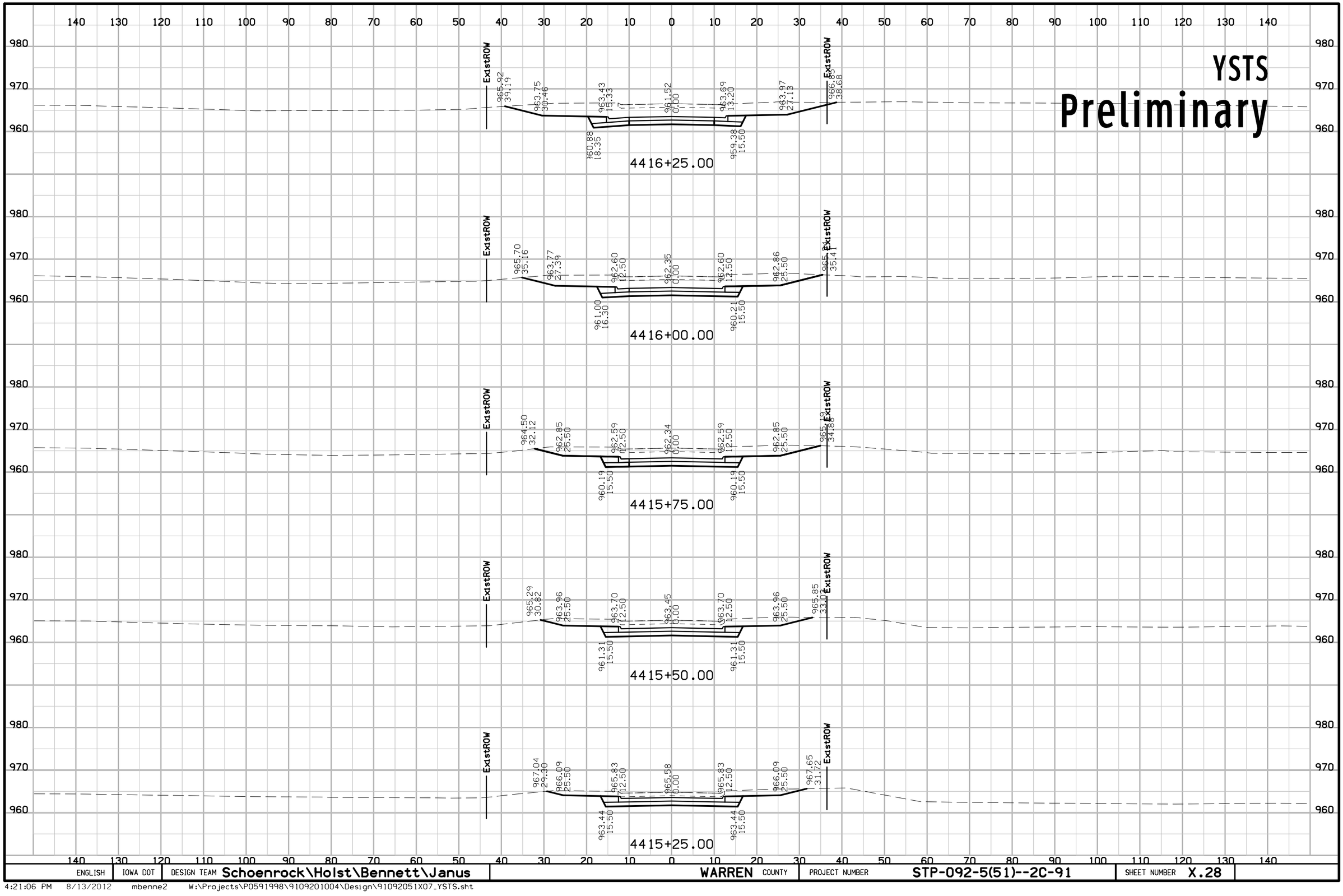
YSTS
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.27

YSTS

Preliminary



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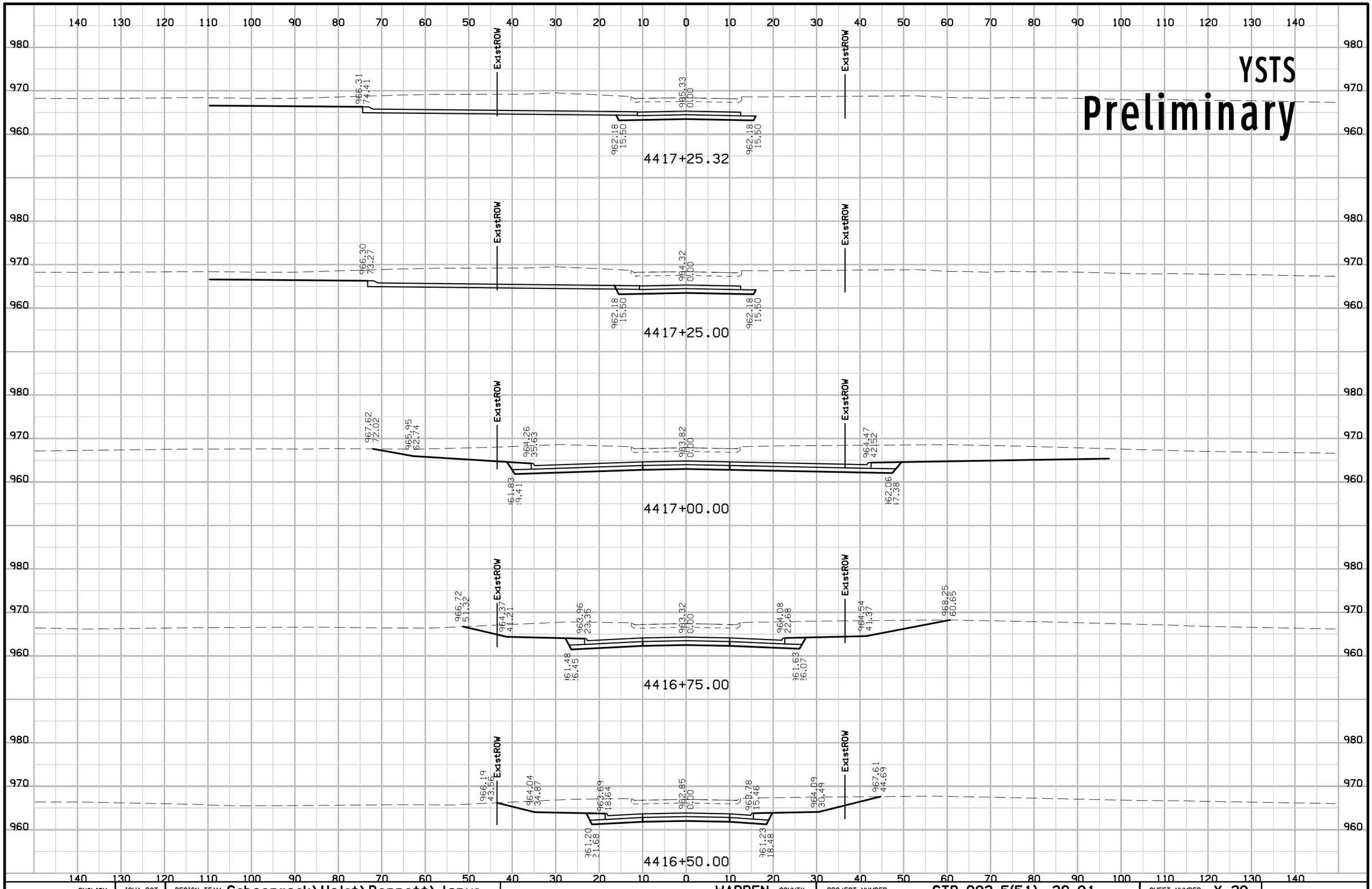
YSTS

Preliminary



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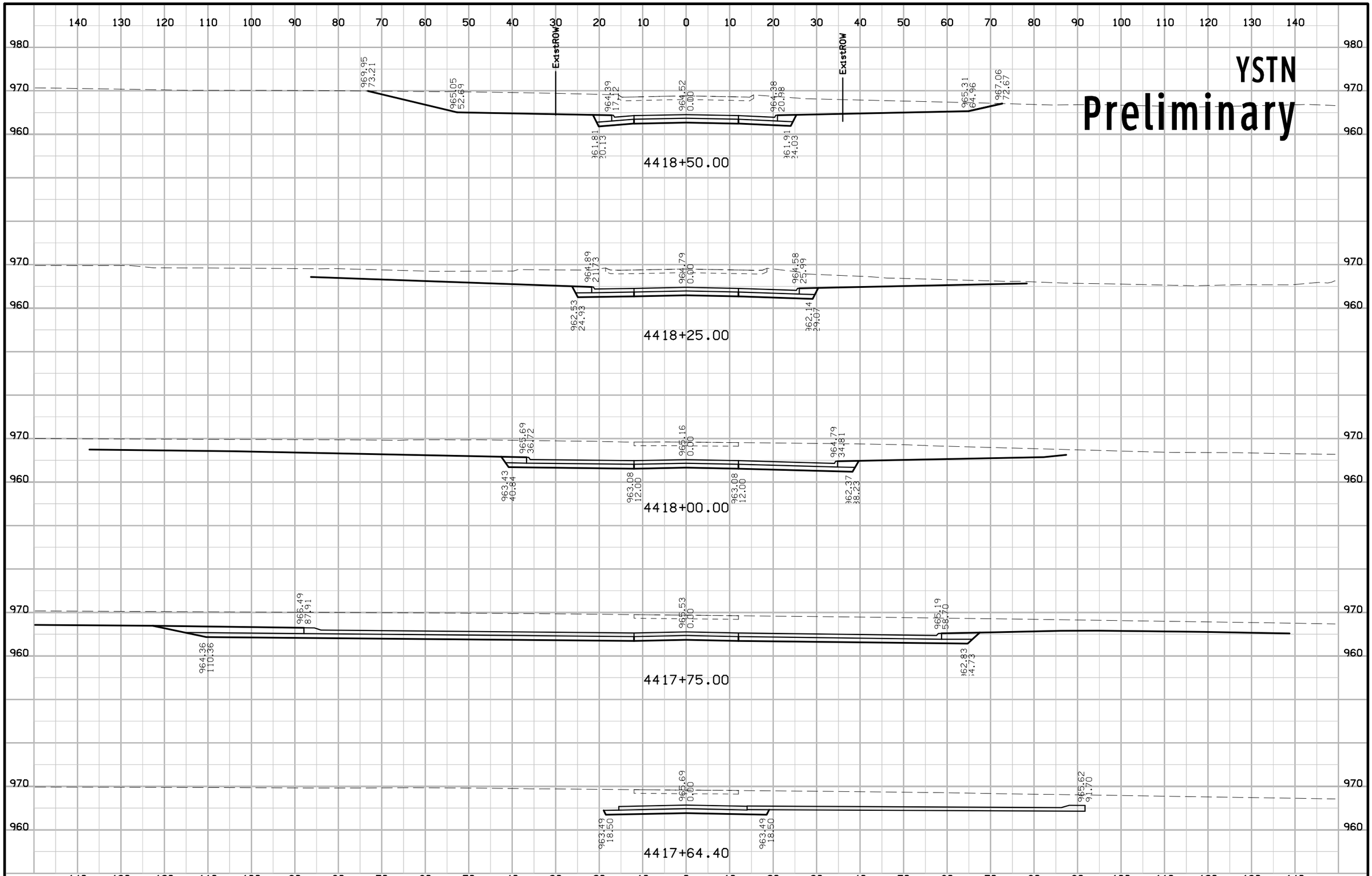
YSTN

Preliminary



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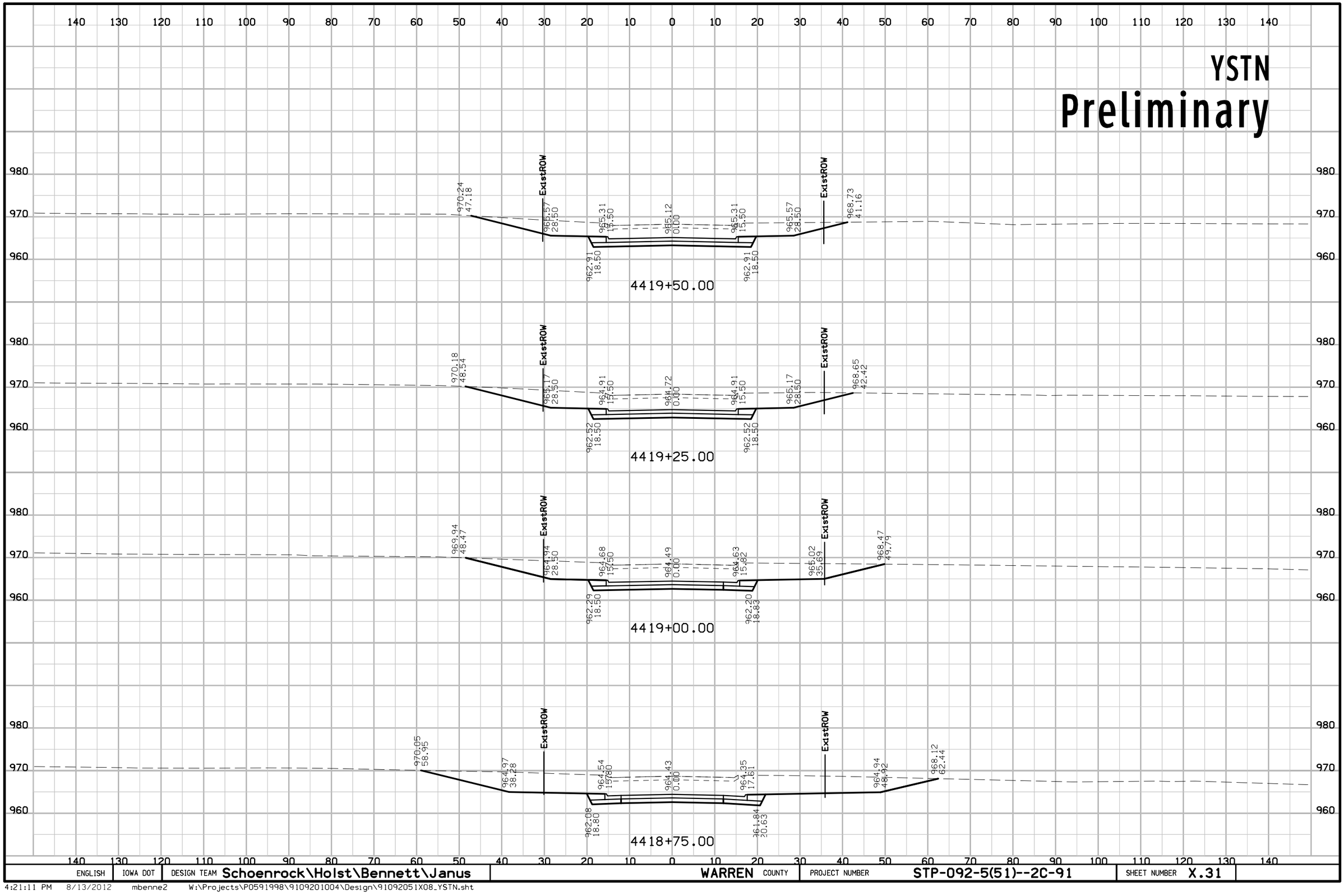
YSTN

Preliminary



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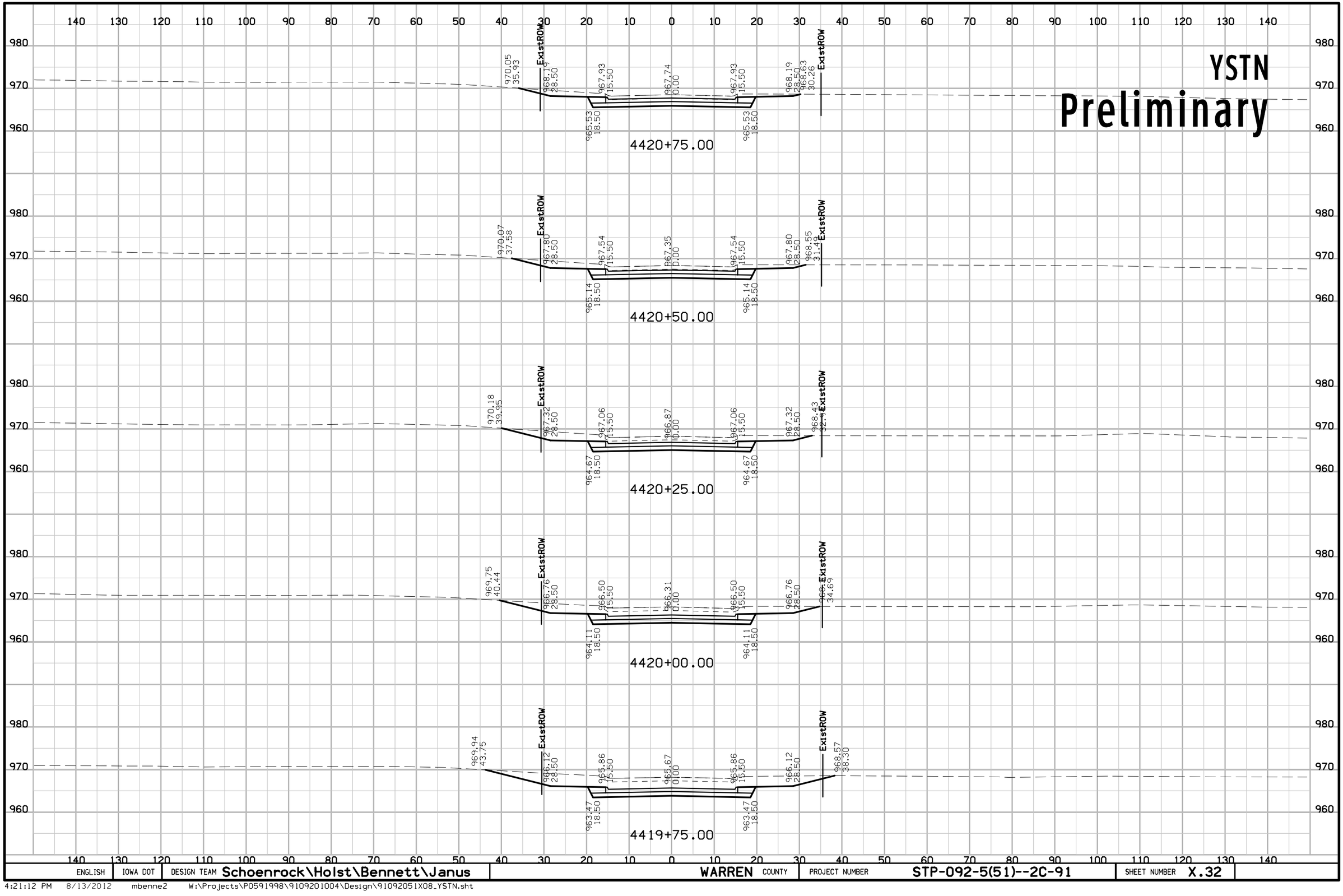
YSTN

Preliminary



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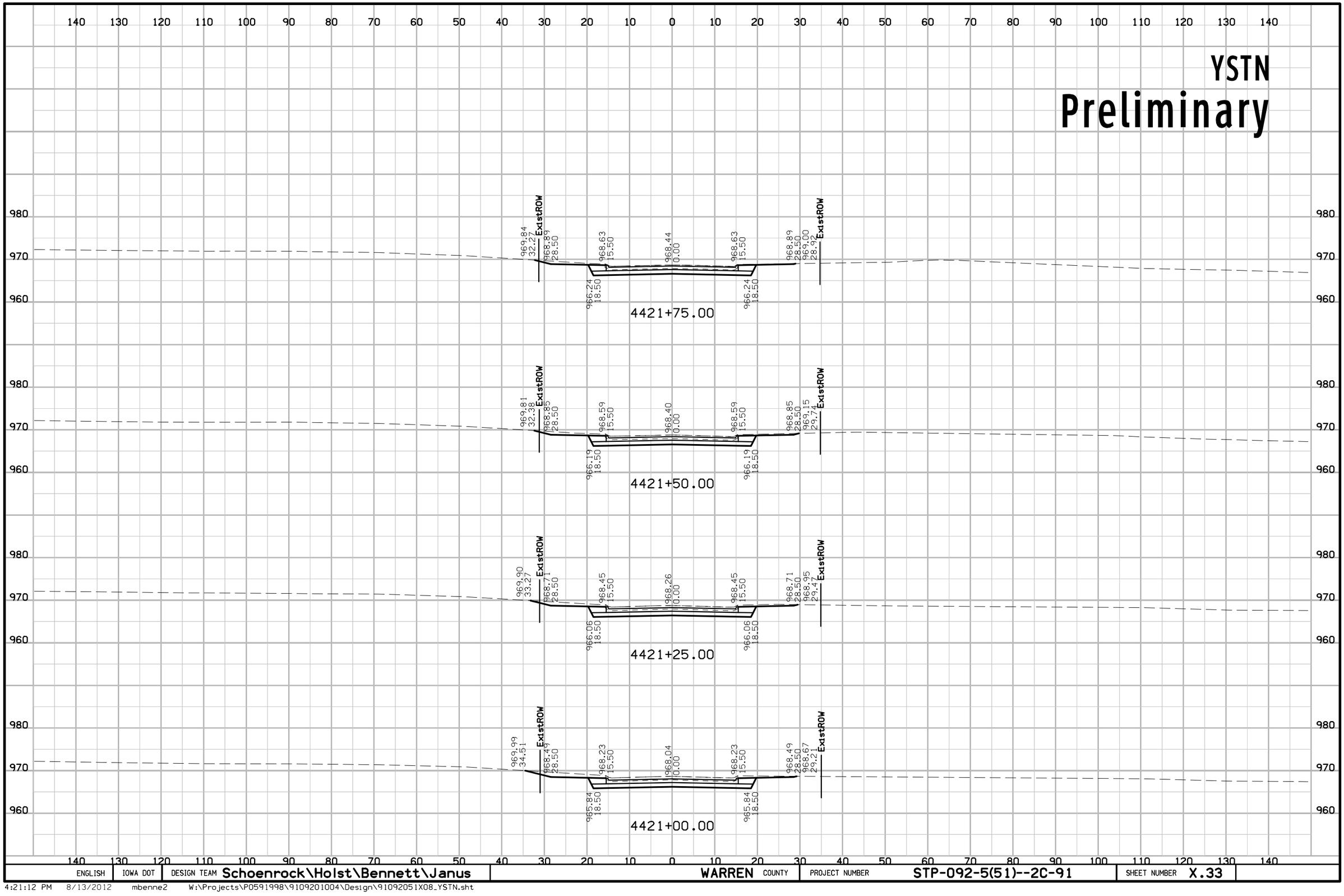
YSTN

Preliminary



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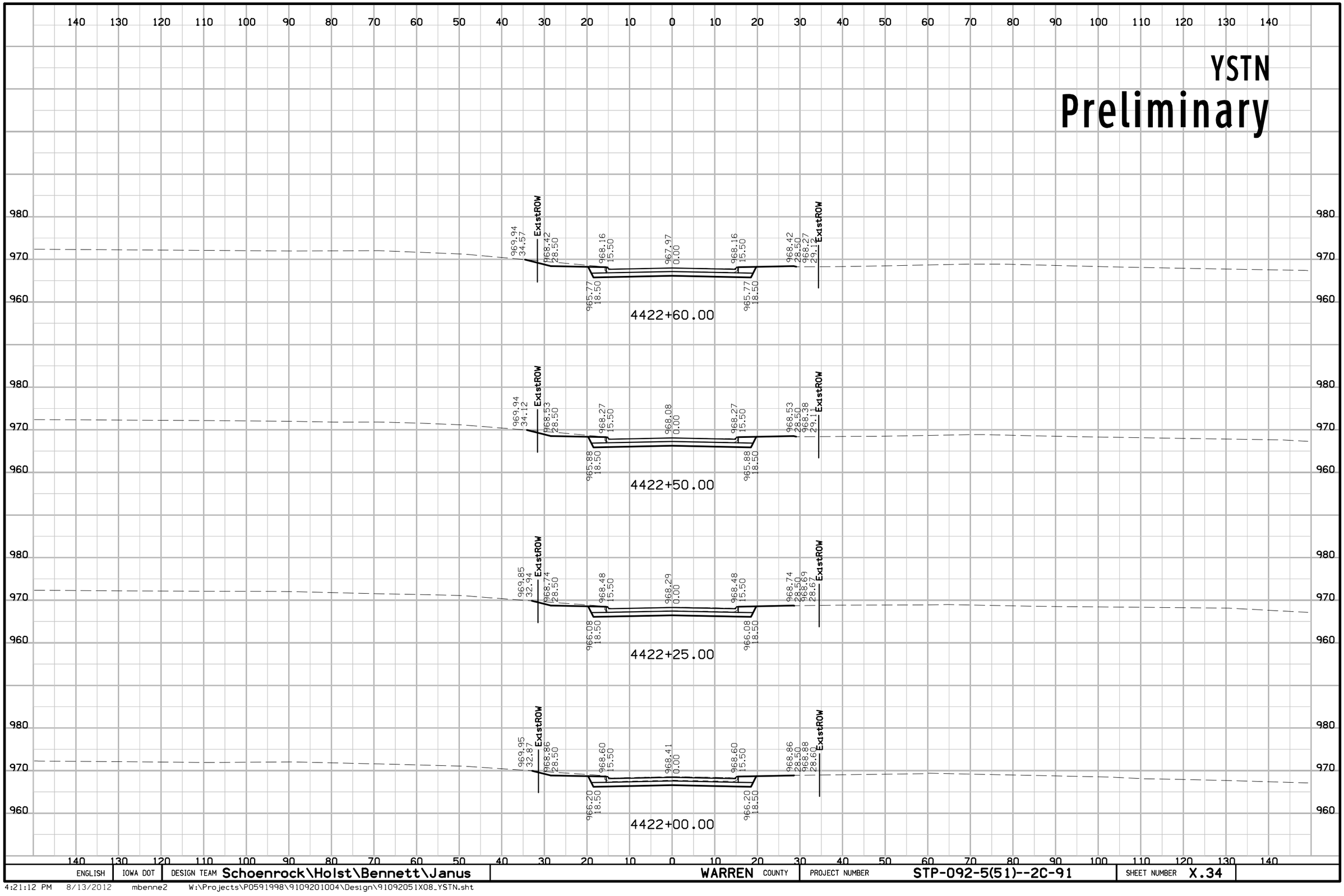
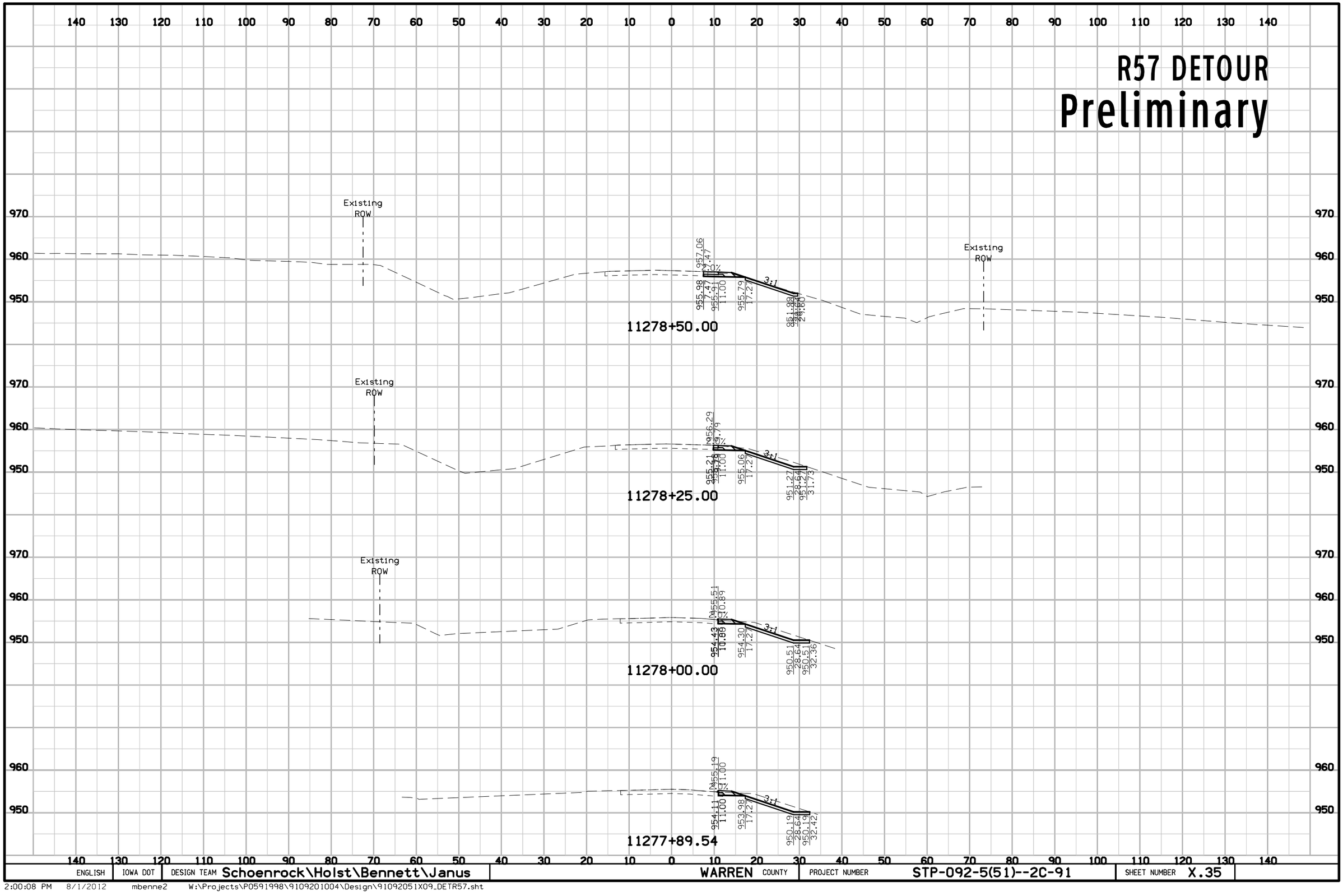
YSTN

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.34

R57 DETOUR
Preliminary



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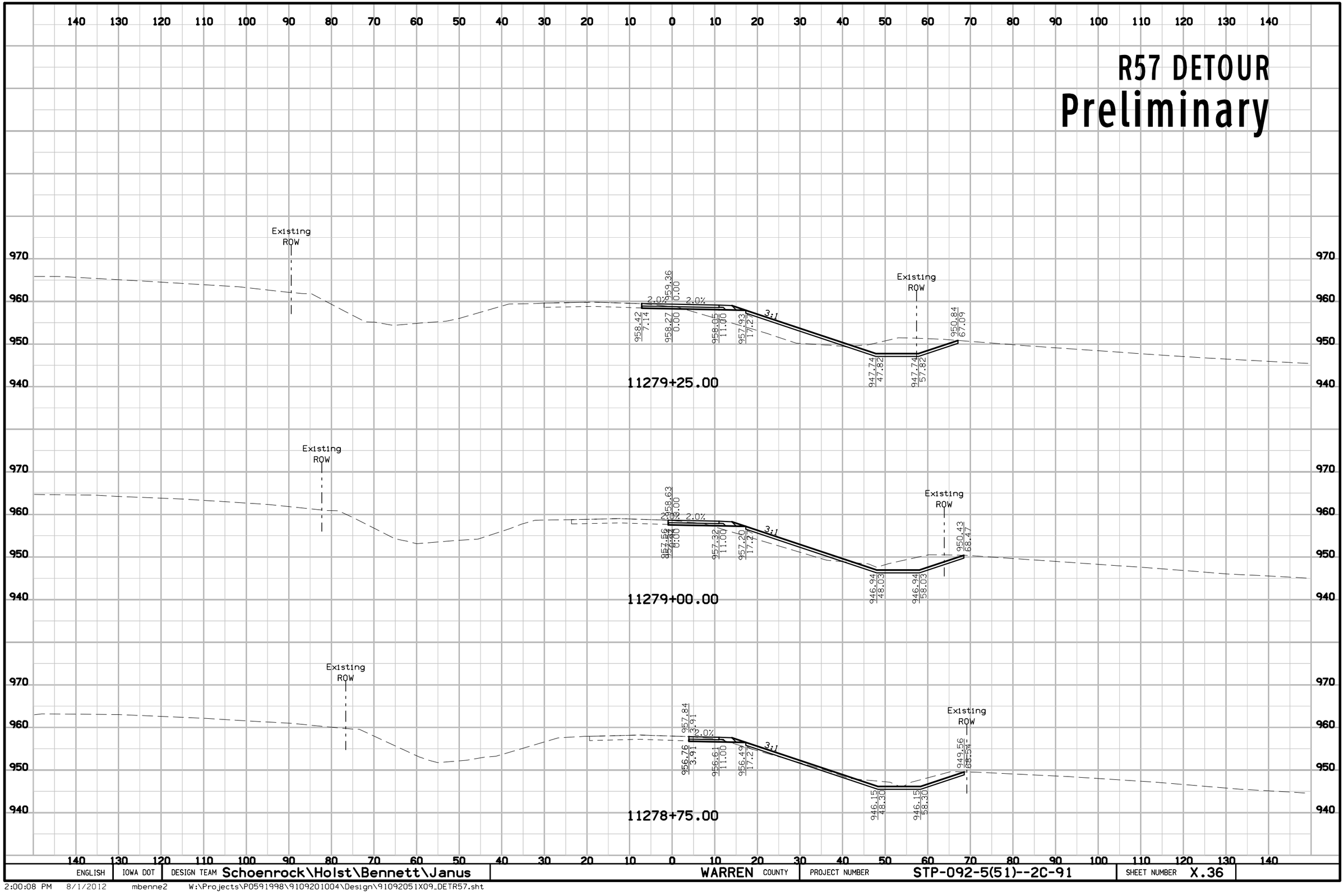
R57 DETOUR
Preliminary



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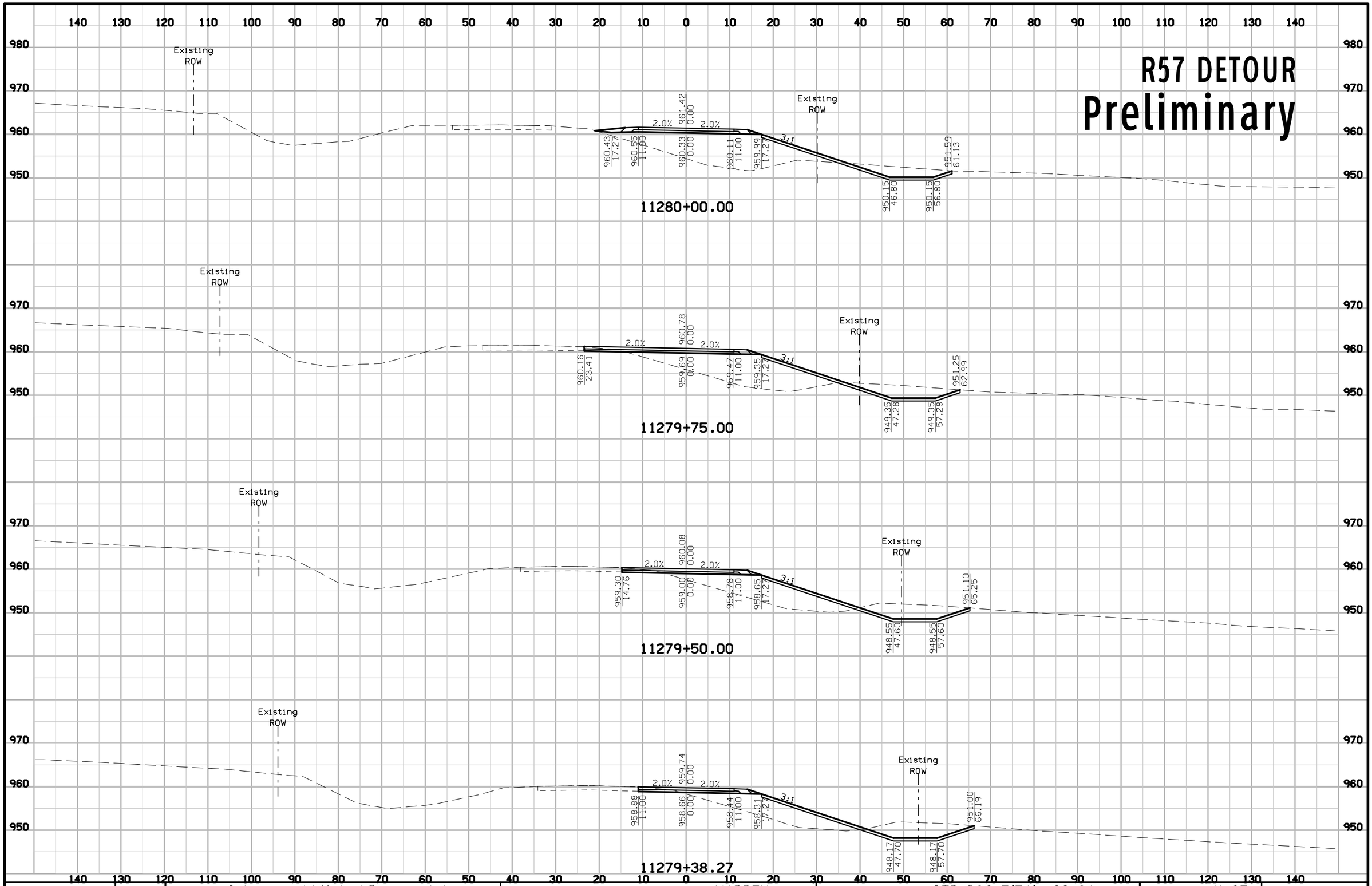
R57 DETOUR
Preliminary



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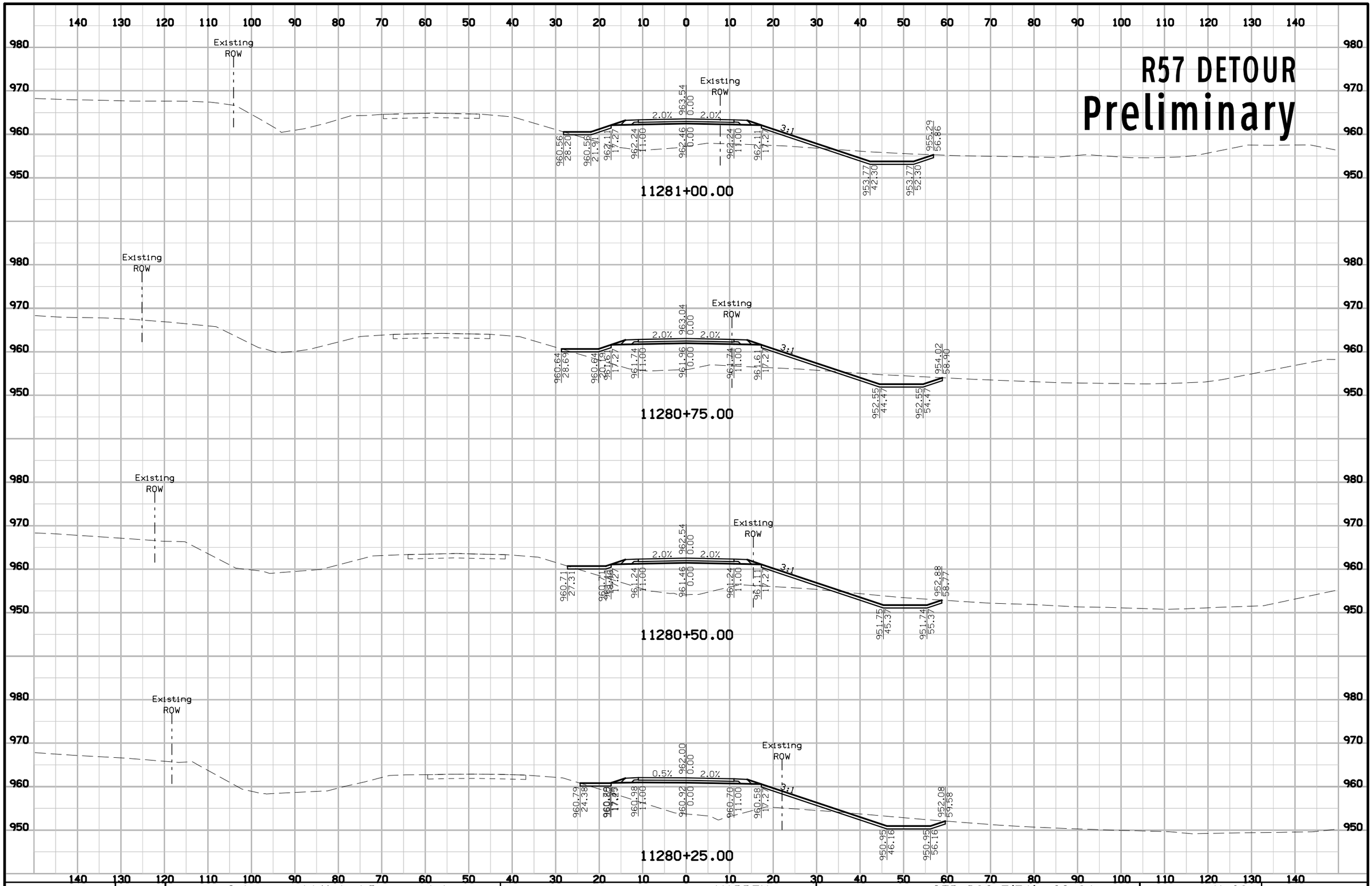
R57 DETOUR
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.38

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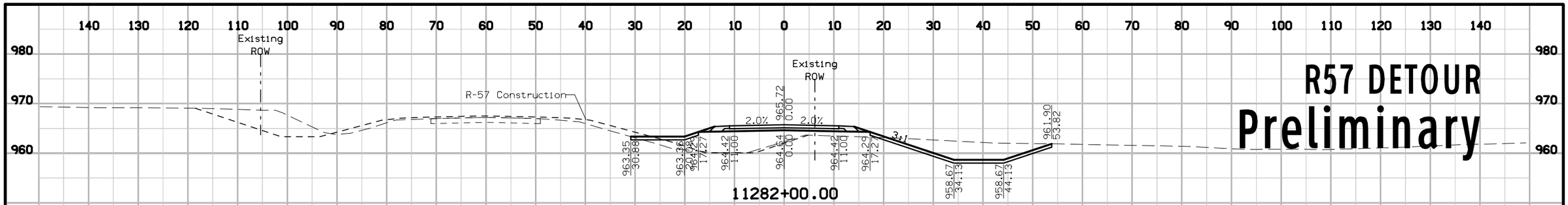
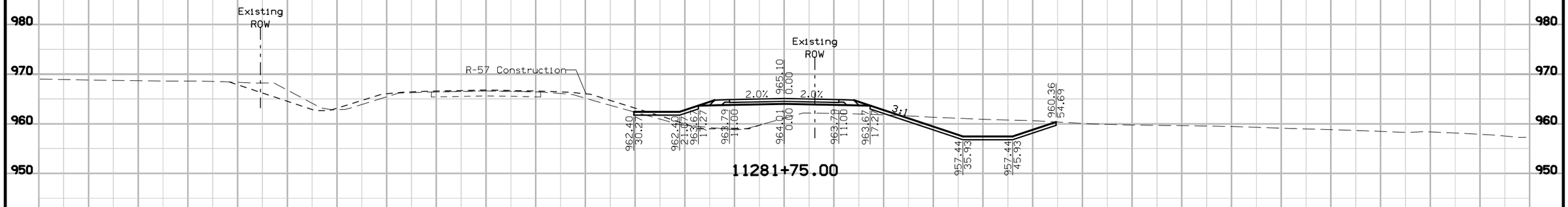
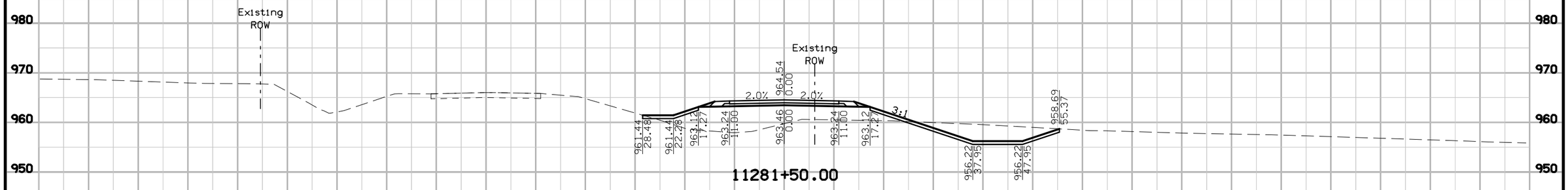
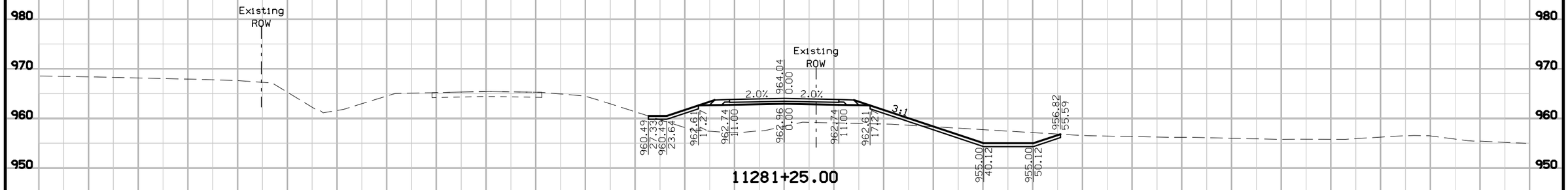
R57 DETOUR
Preliminary









ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.39

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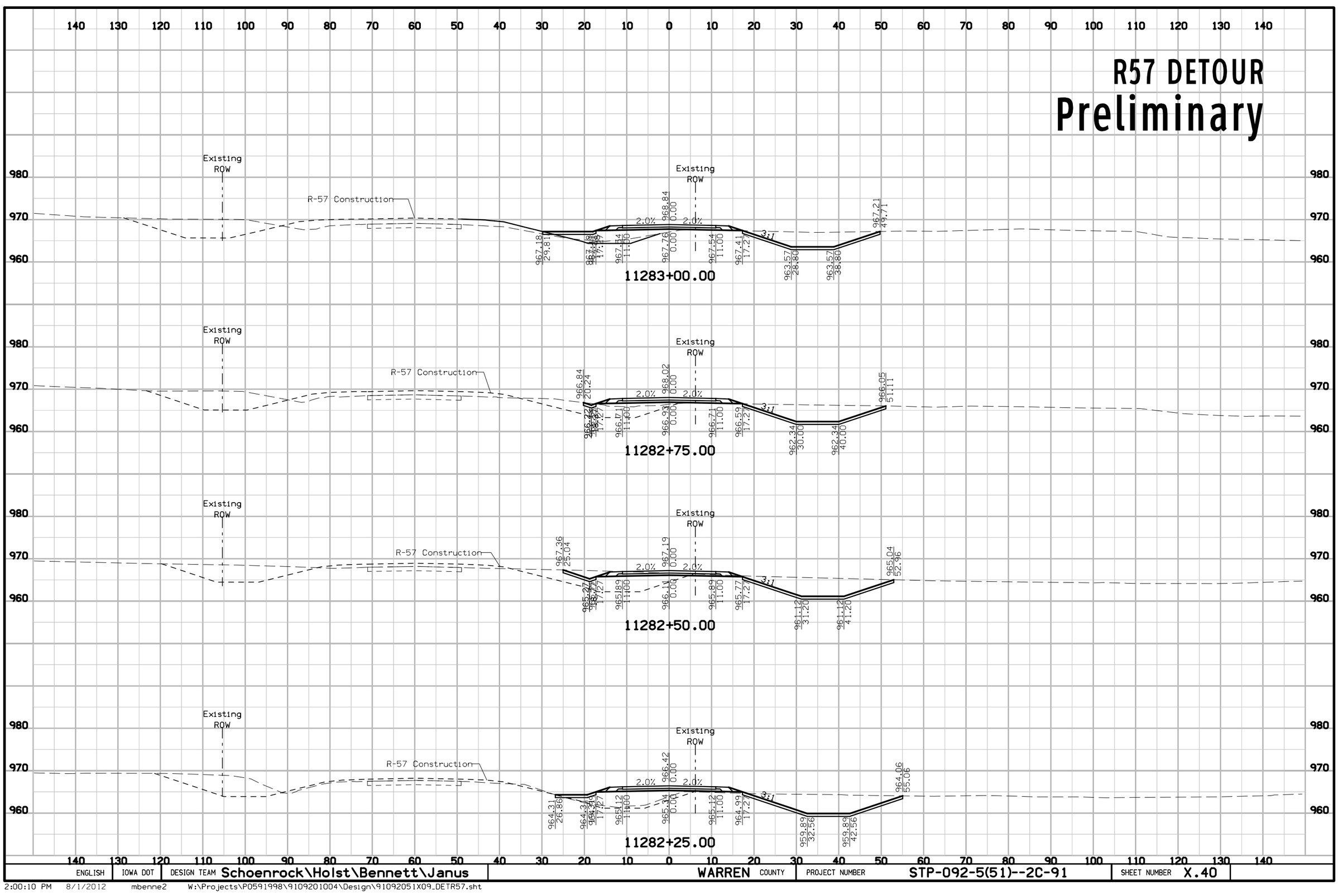
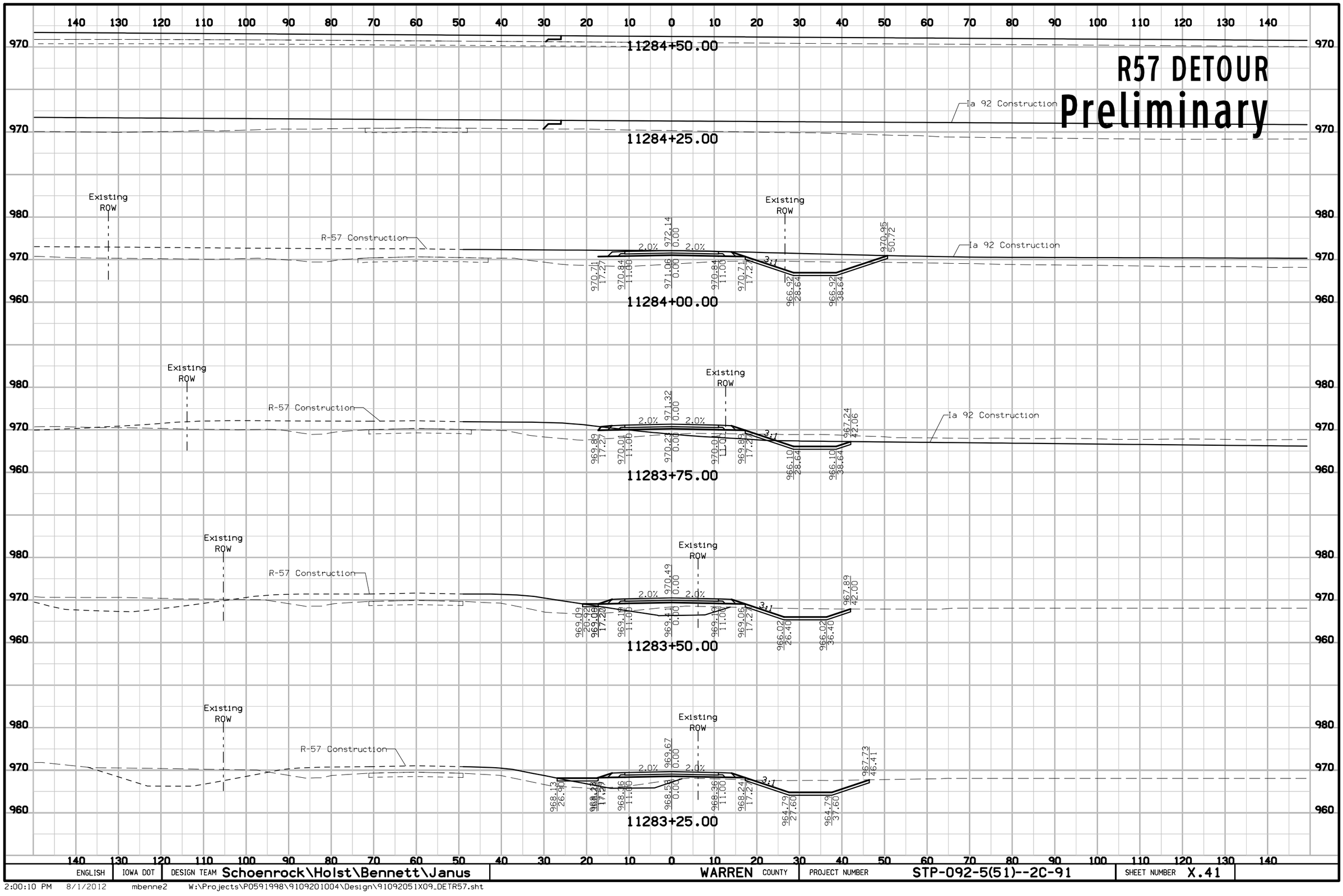
R57 DETOUR
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.40

R57 DETOUR

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.41

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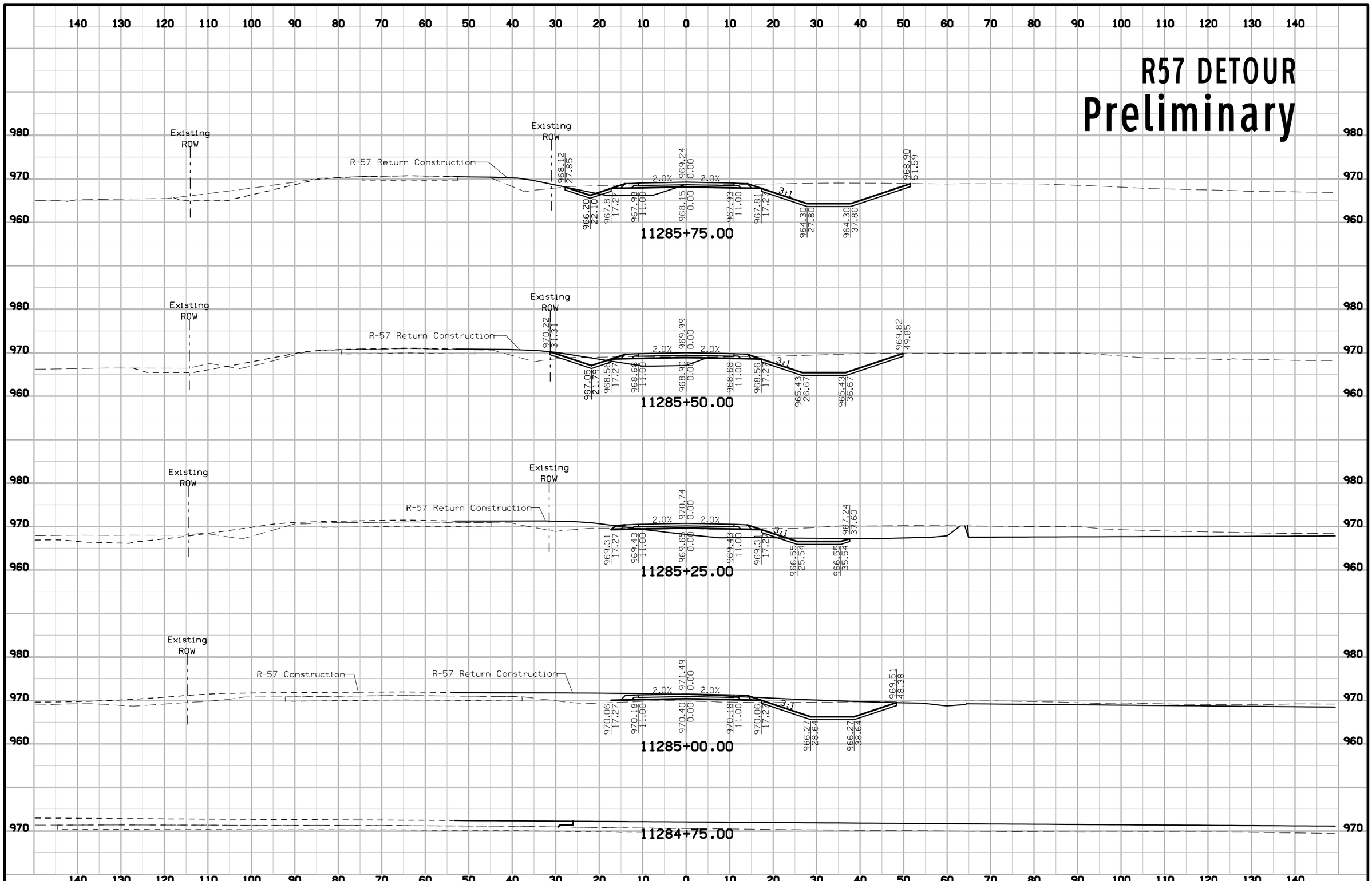
R57 DETOUR
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.42

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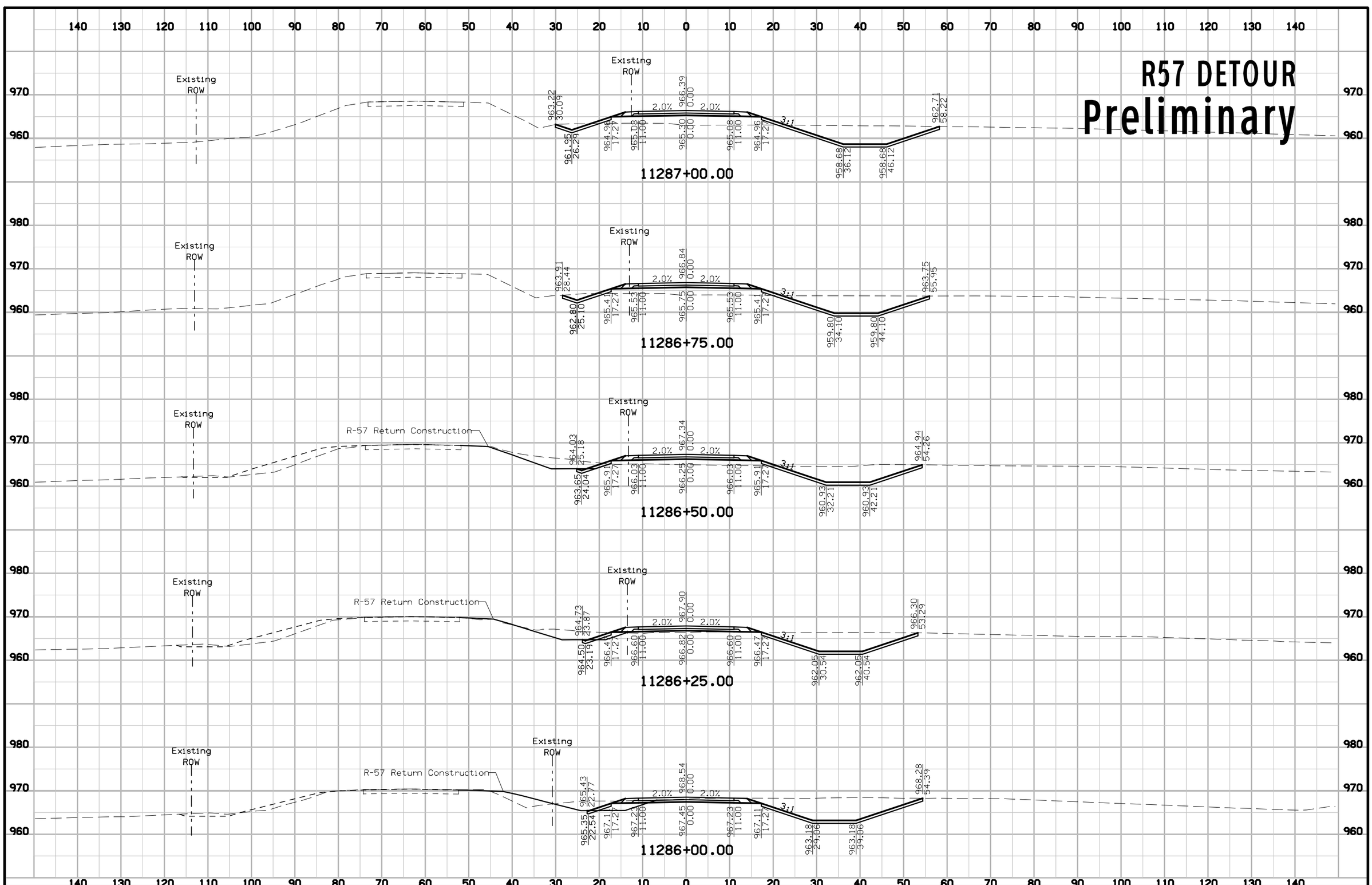
R57 DETOUR
Preliminary



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R57 DETOUR
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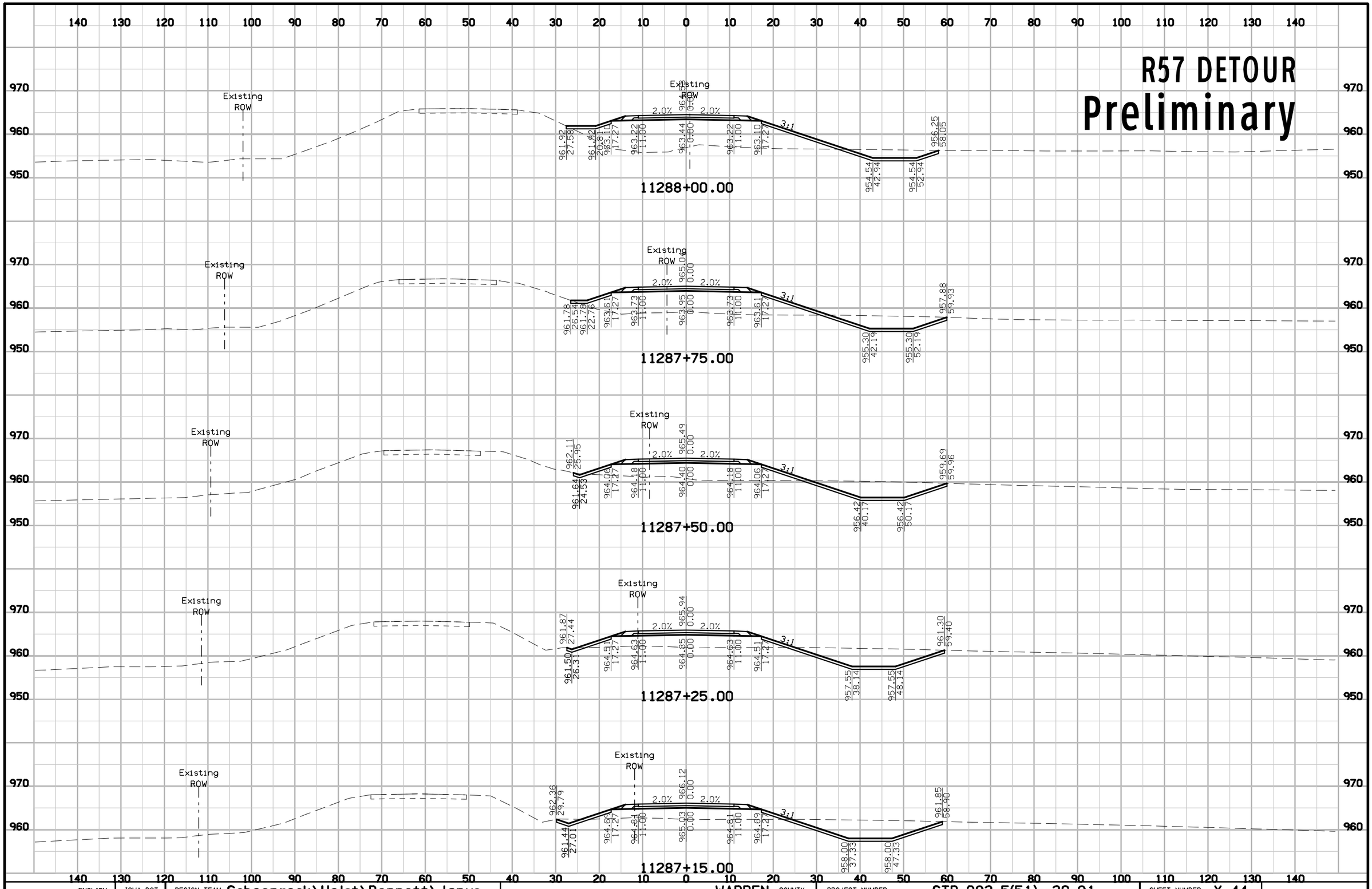

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.44

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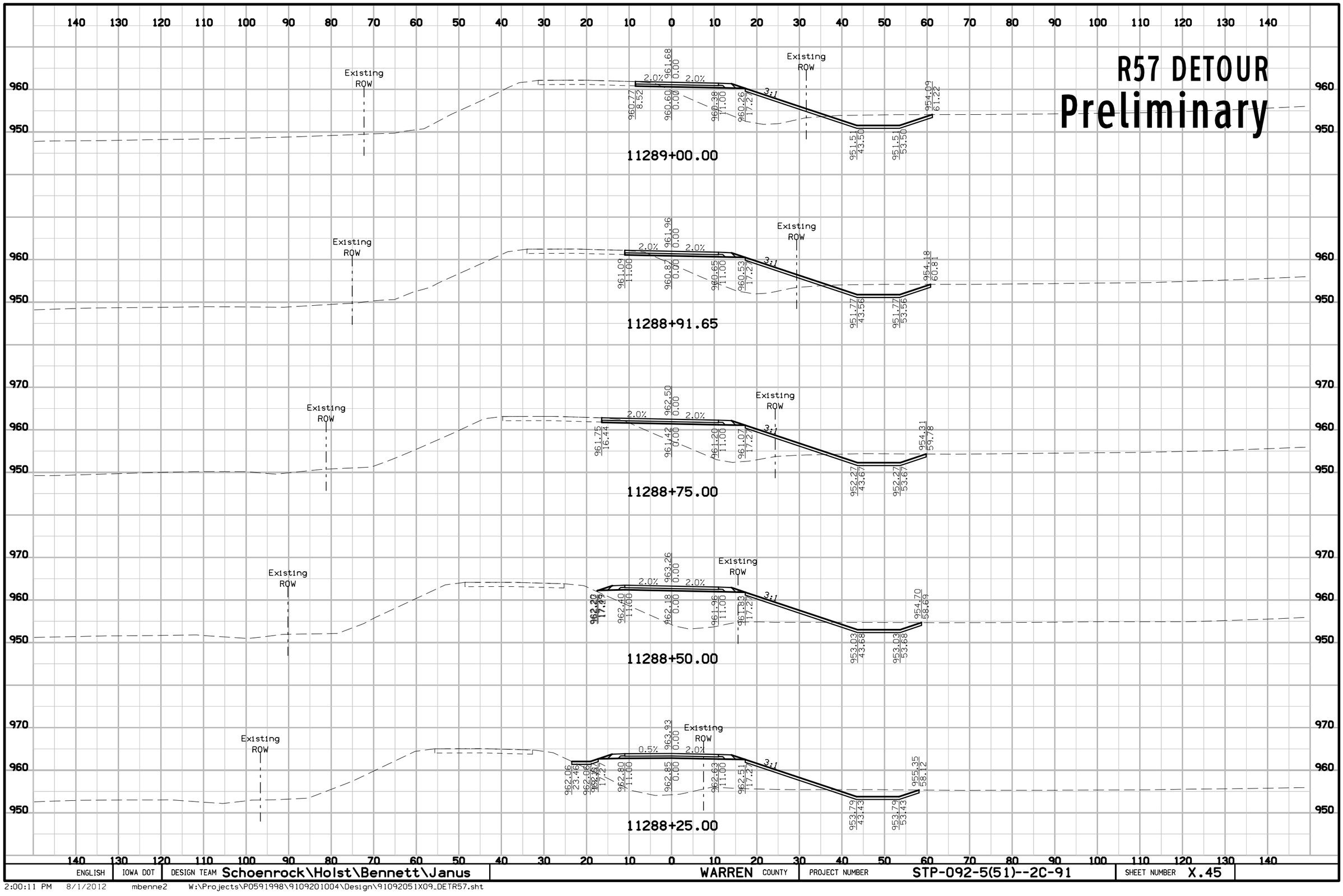
R57 DETOUR

Preliminary



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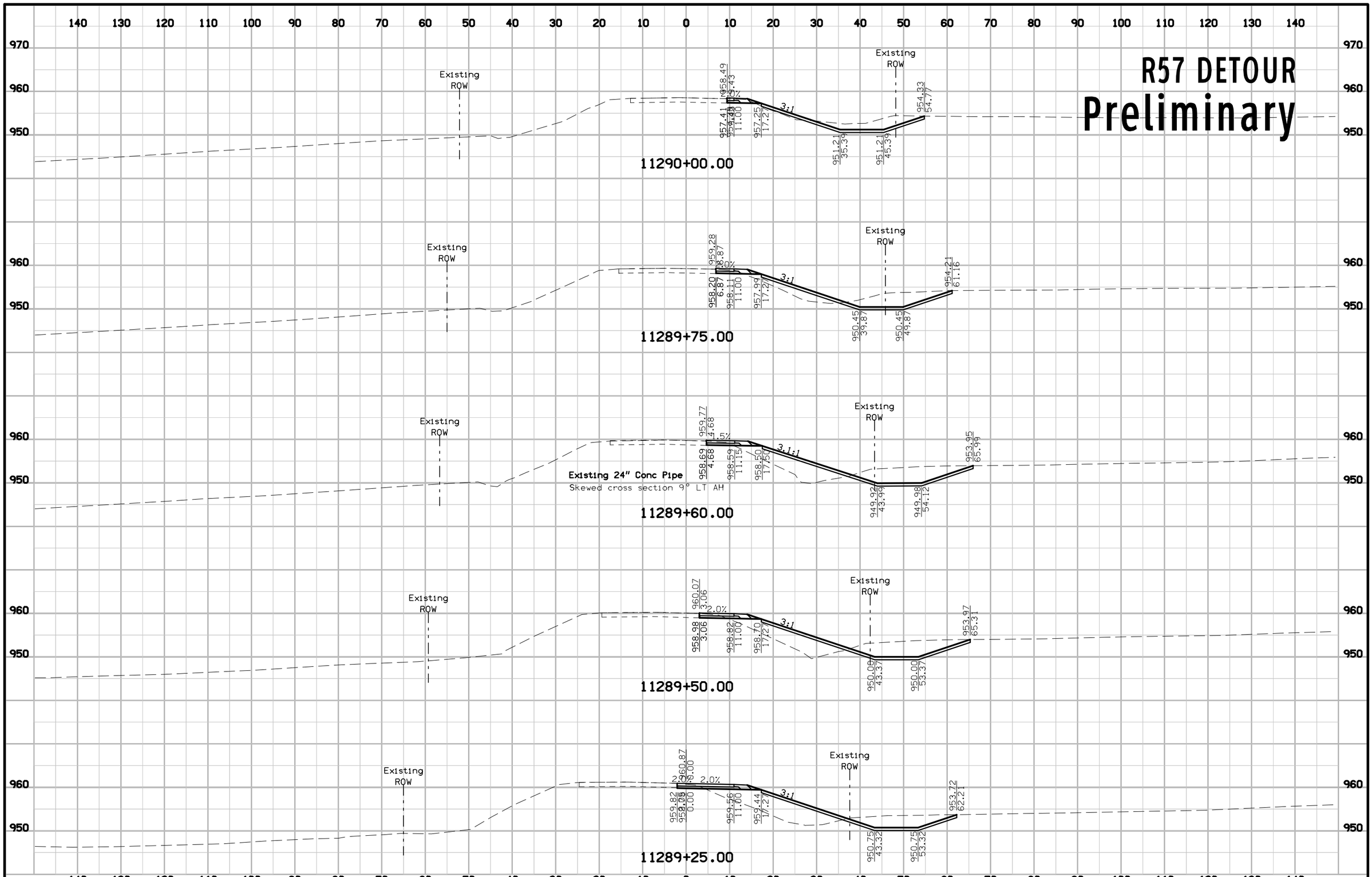
R57 DETOUR
Preliminary



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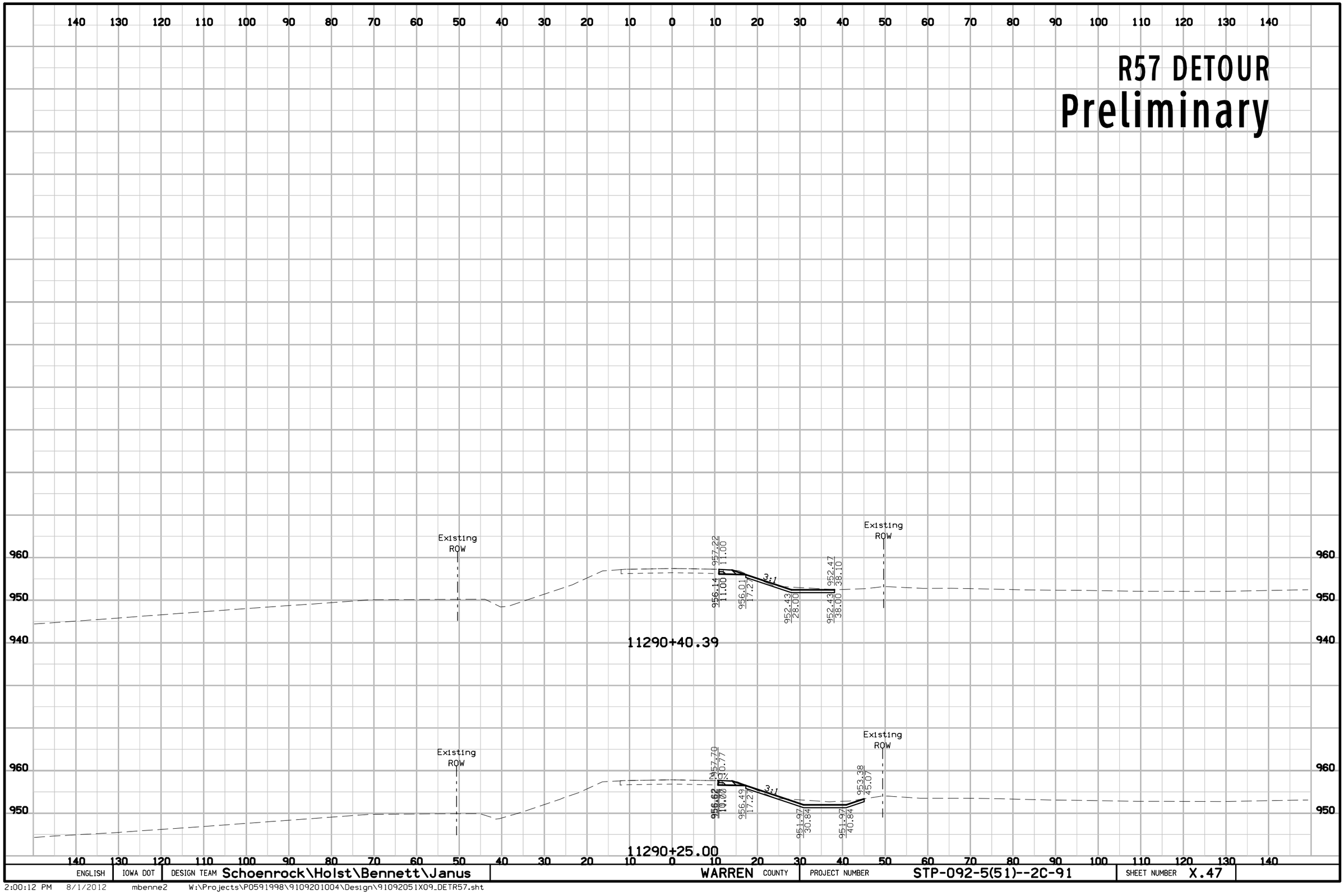
R57 DETOUR
Preliminary



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ENT259
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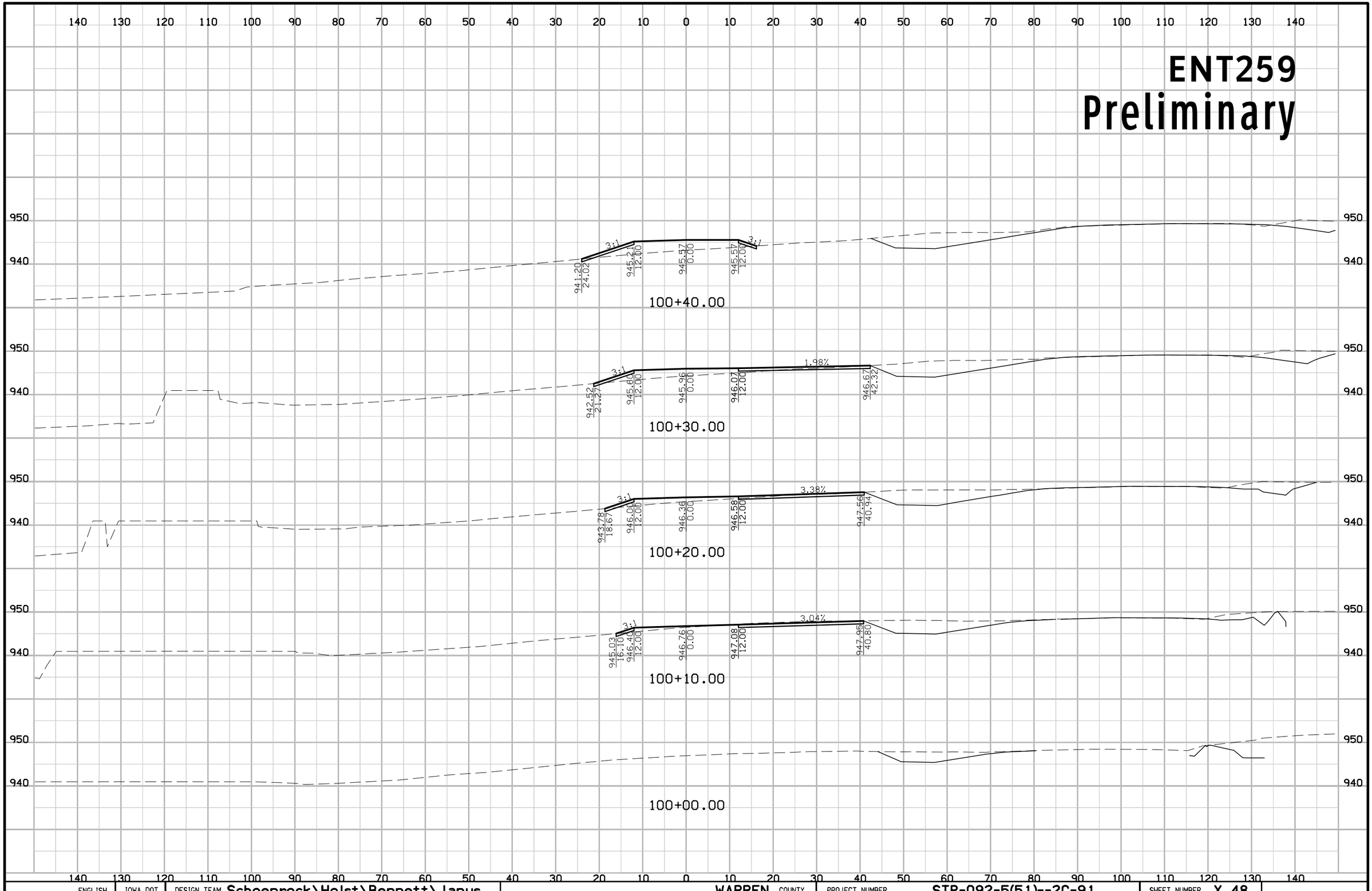

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ENT259
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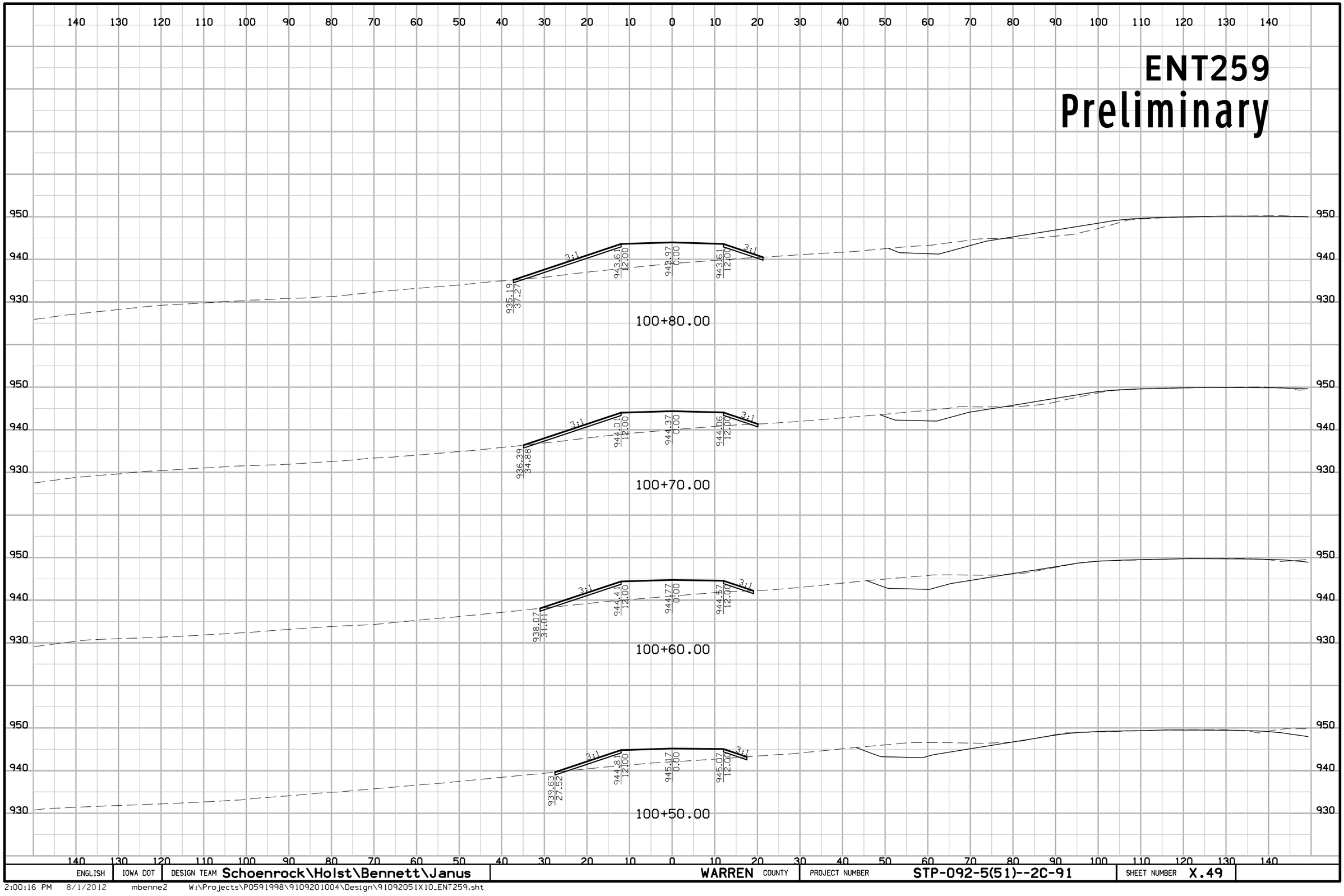

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ENT259
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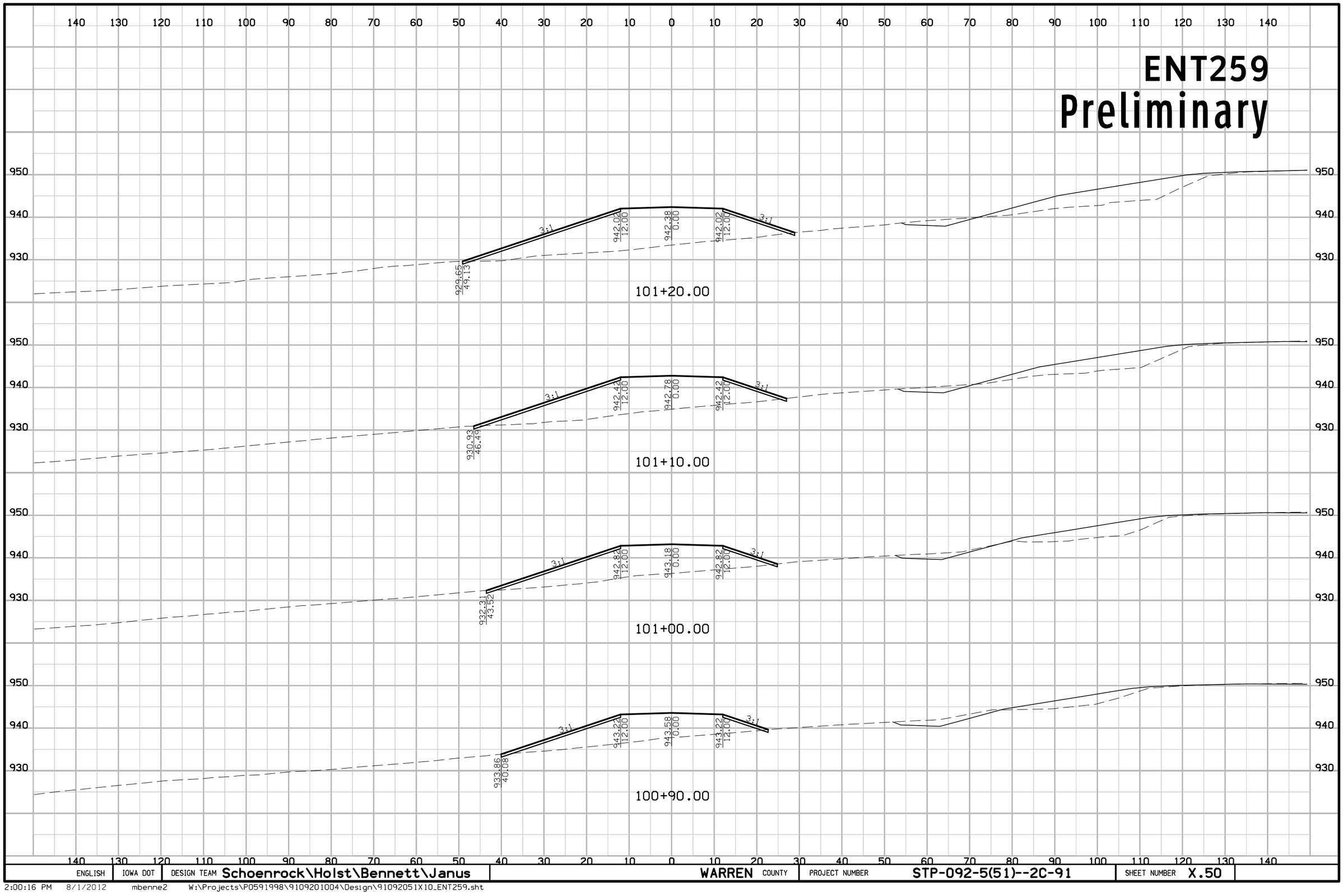

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ENT259
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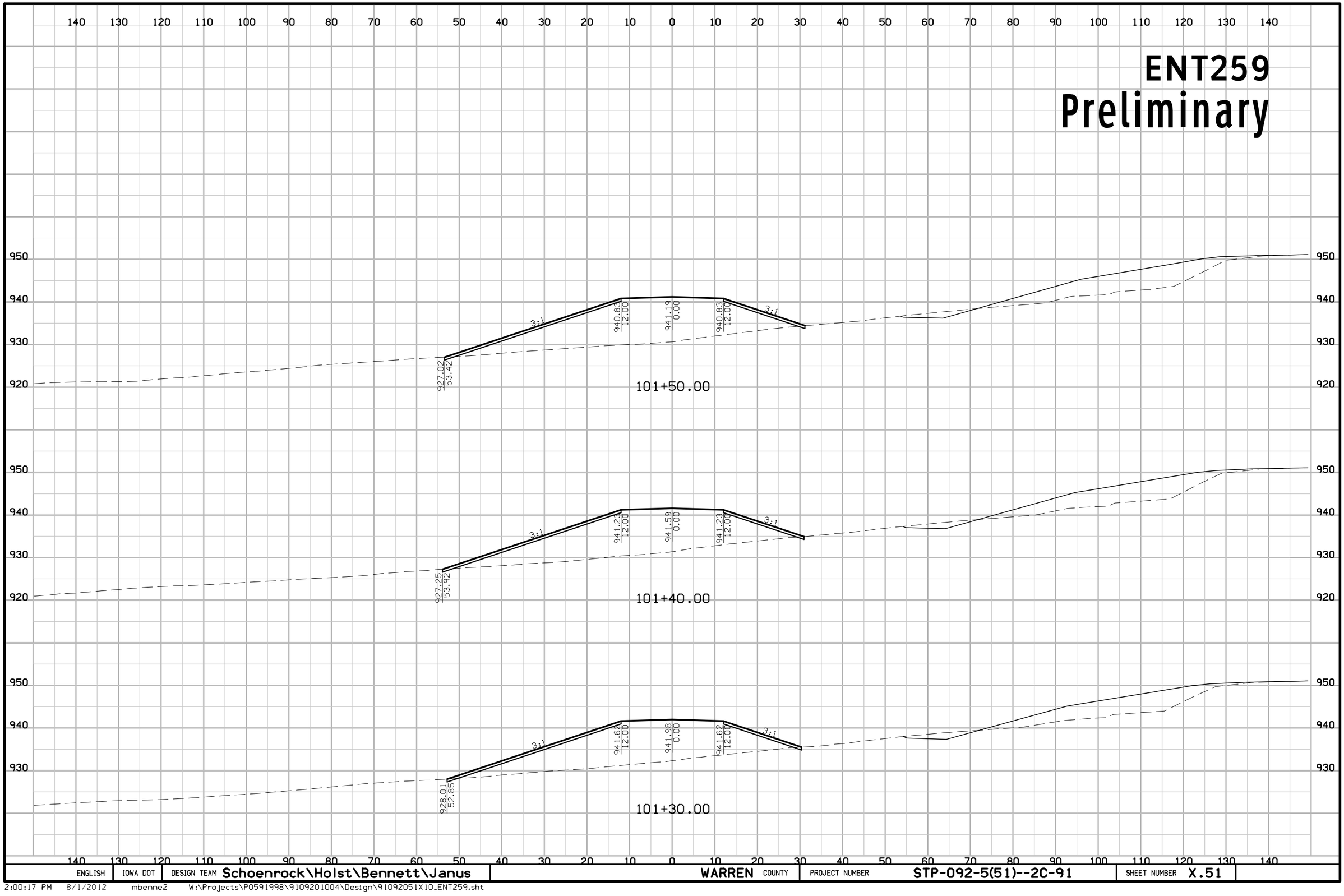

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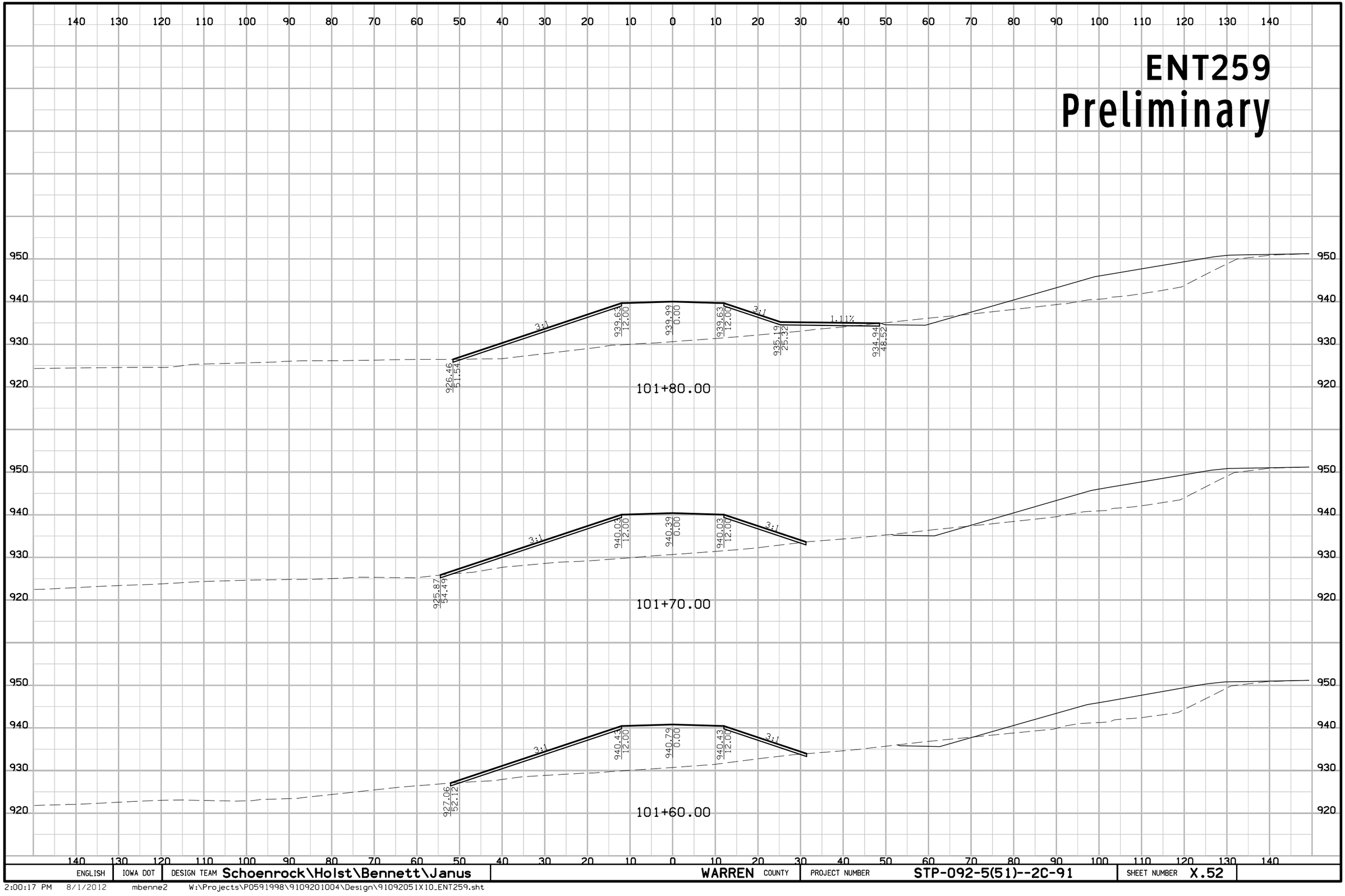
ENT259
Preliminary



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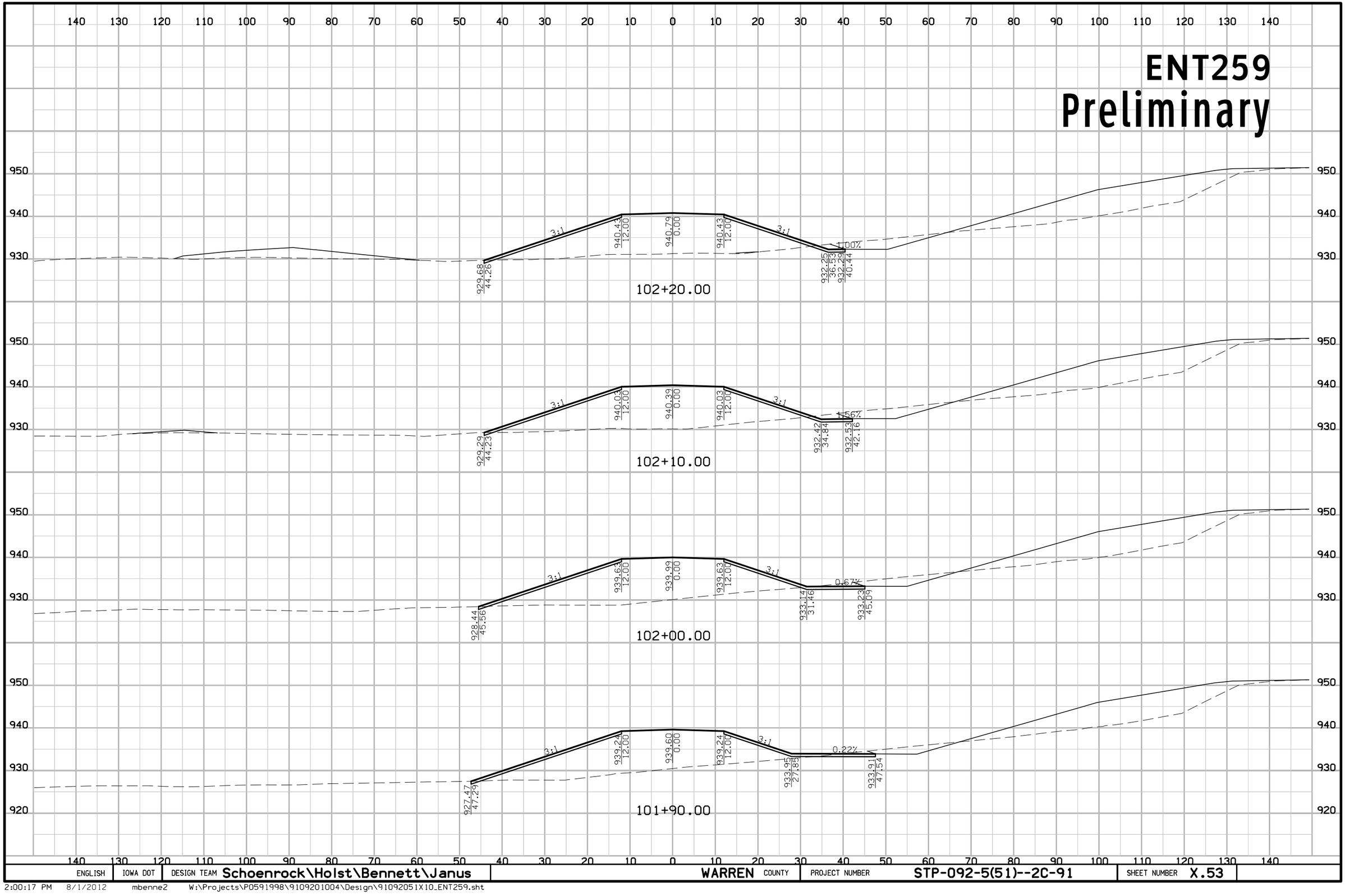
ENT259
Preliminary



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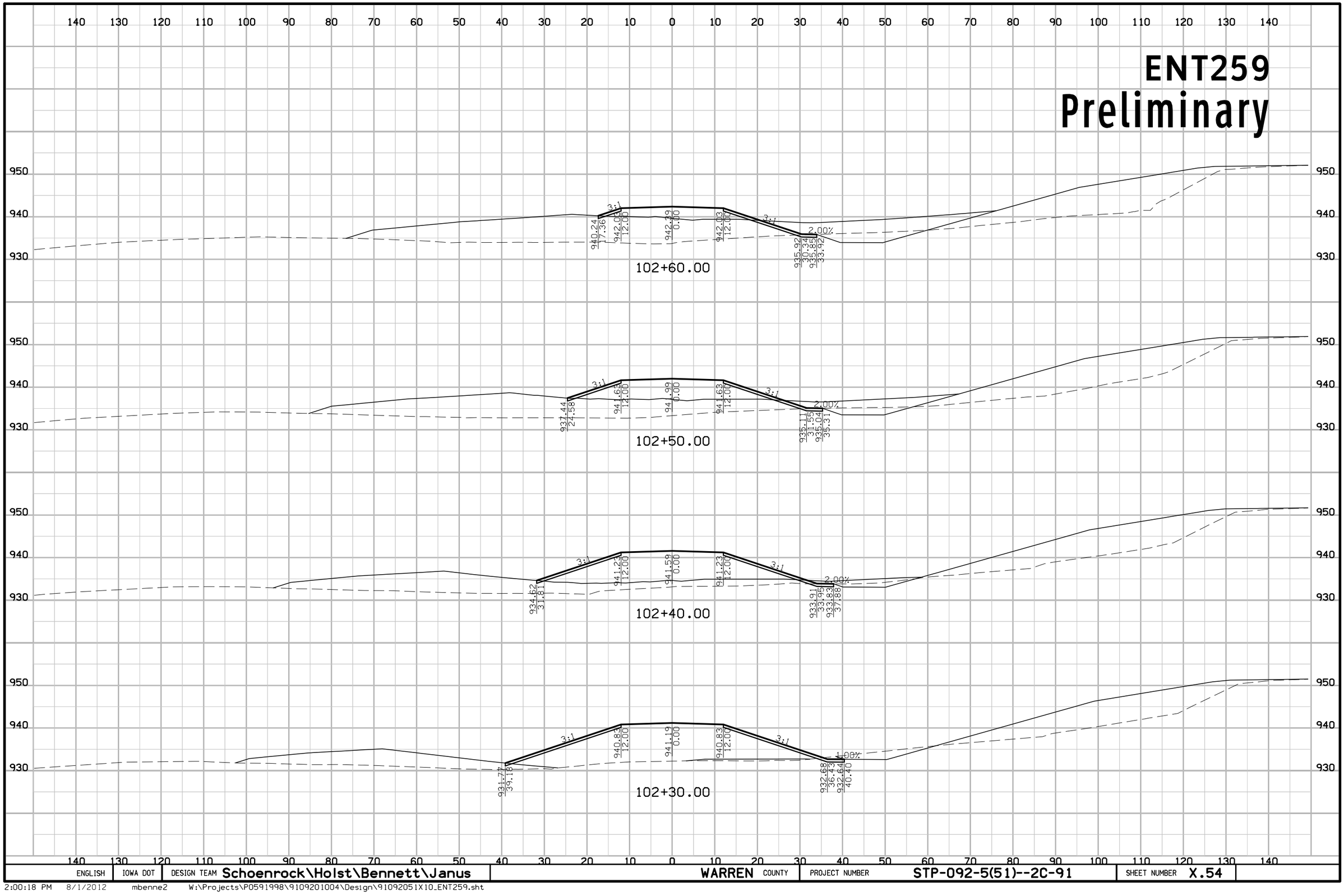
ENT259
Preliminary



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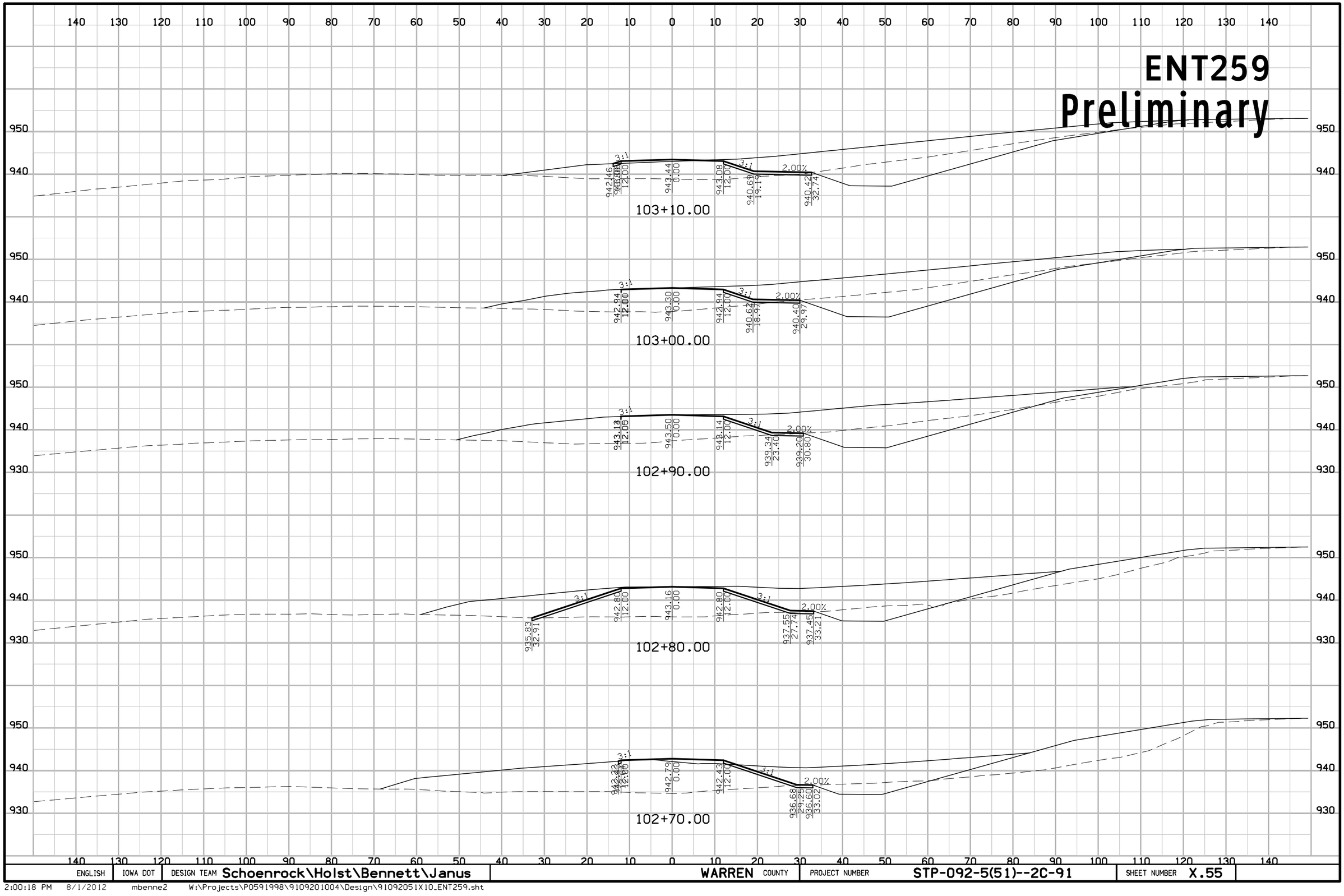
ENT259
Preliminary



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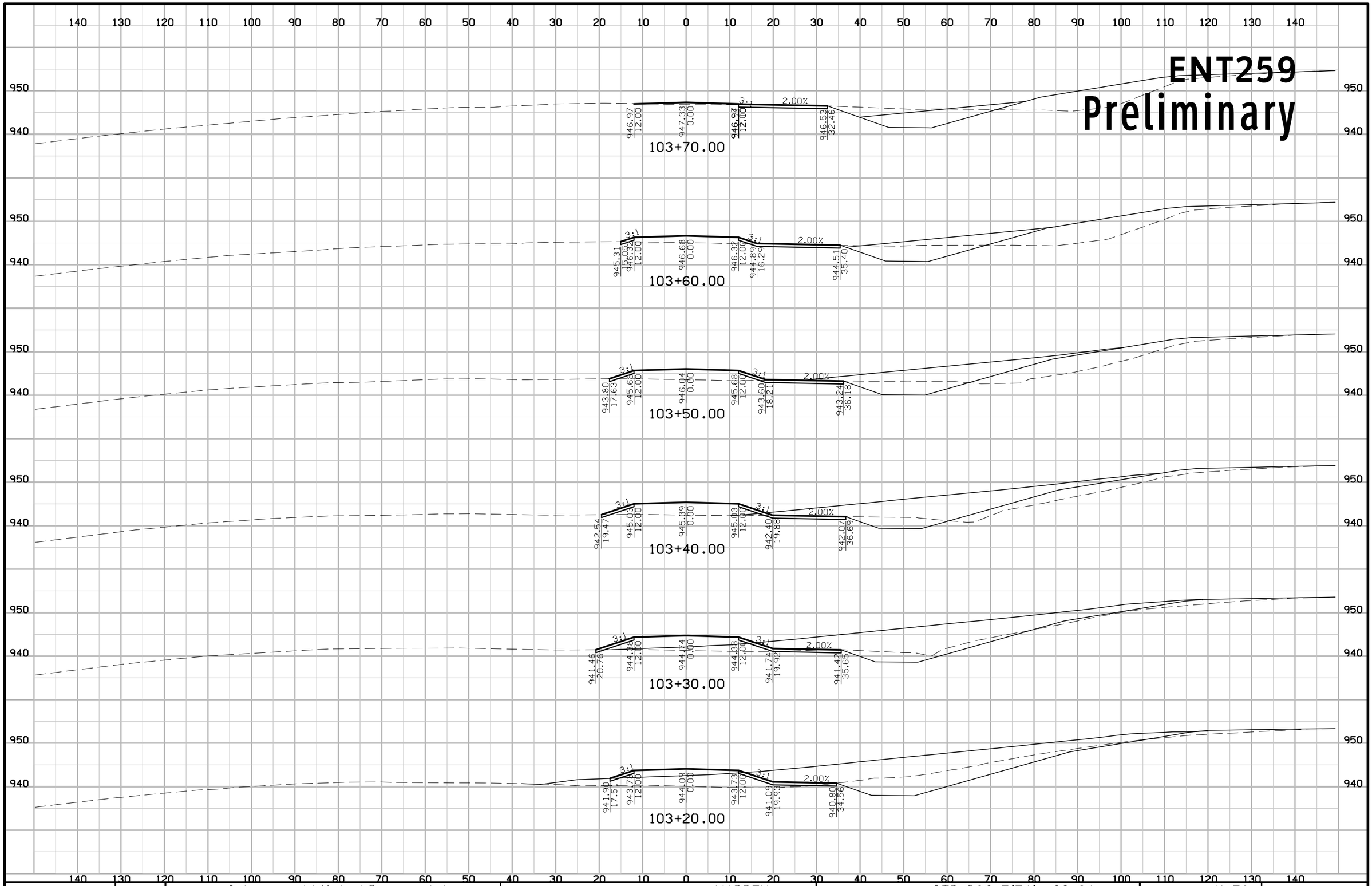
ENT259
Preliminary



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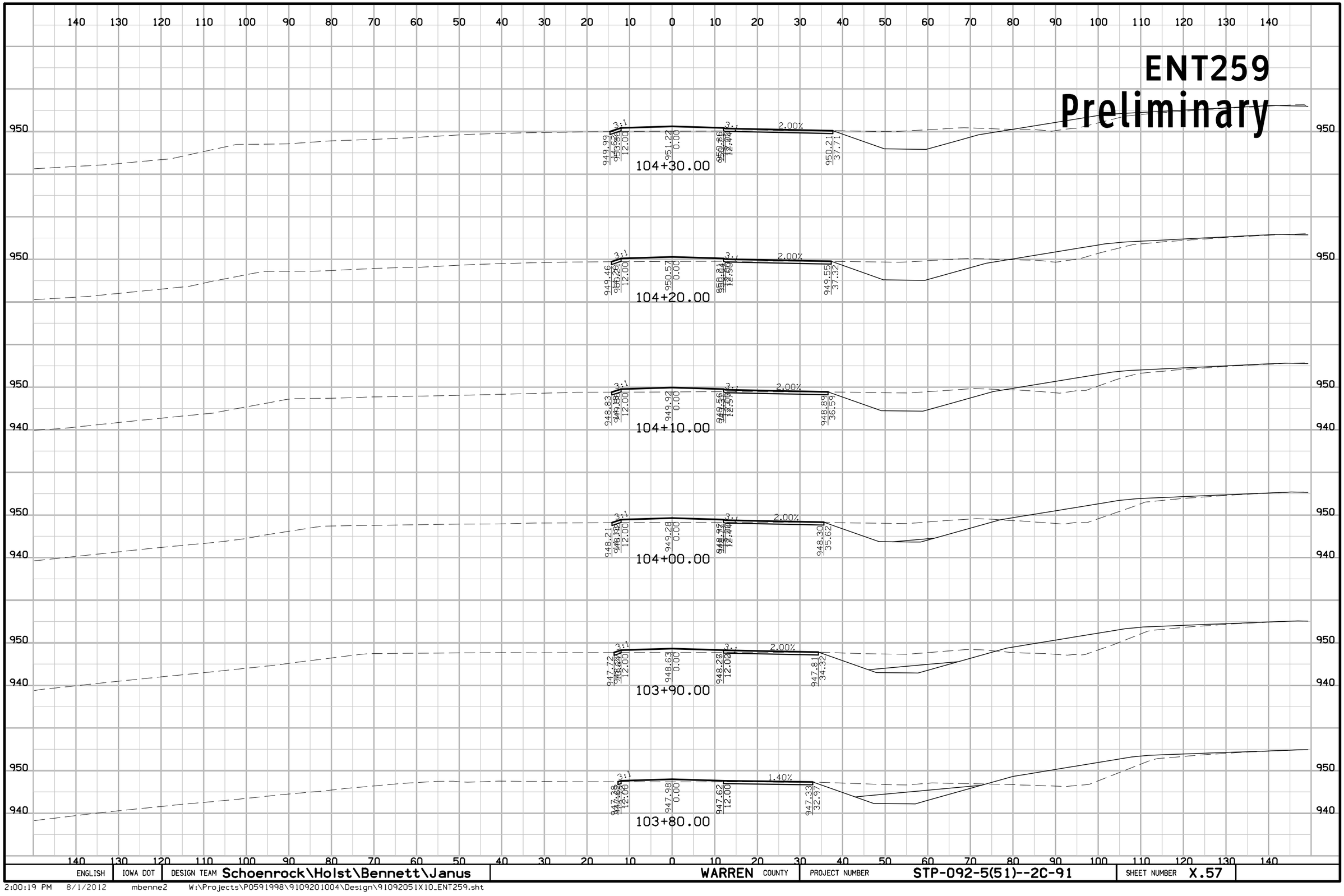
ENT259
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.57

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ENT259
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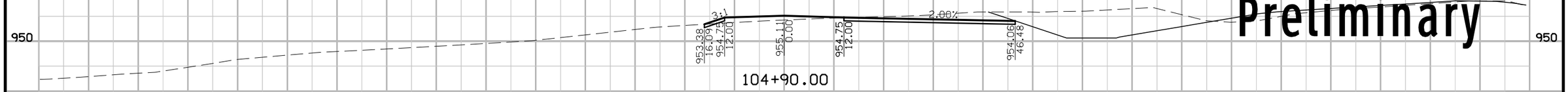
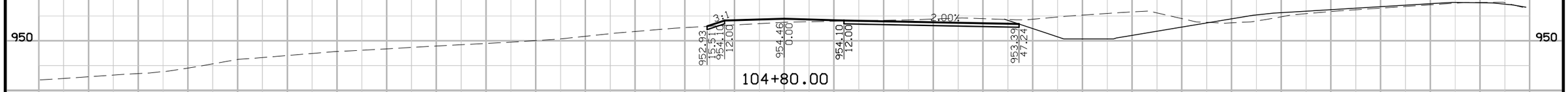
950



104+90.00



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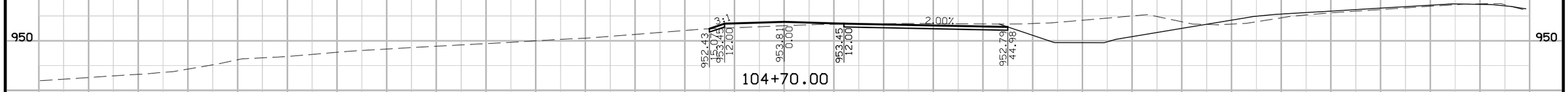

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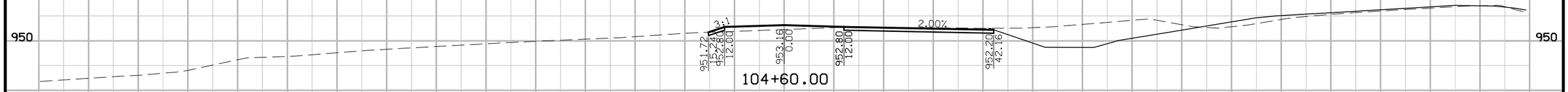

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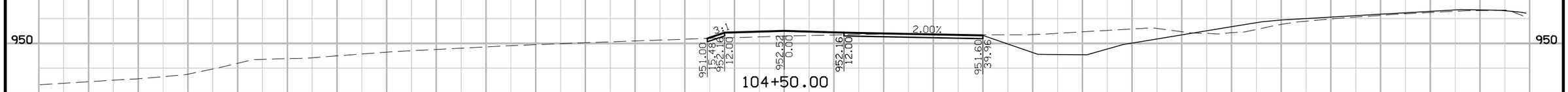

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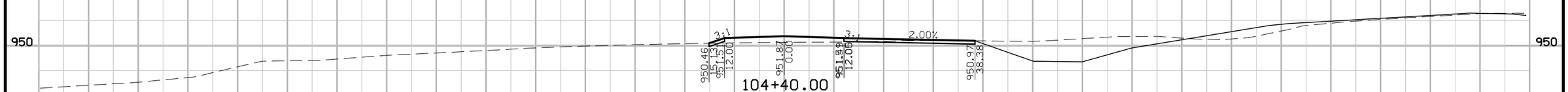
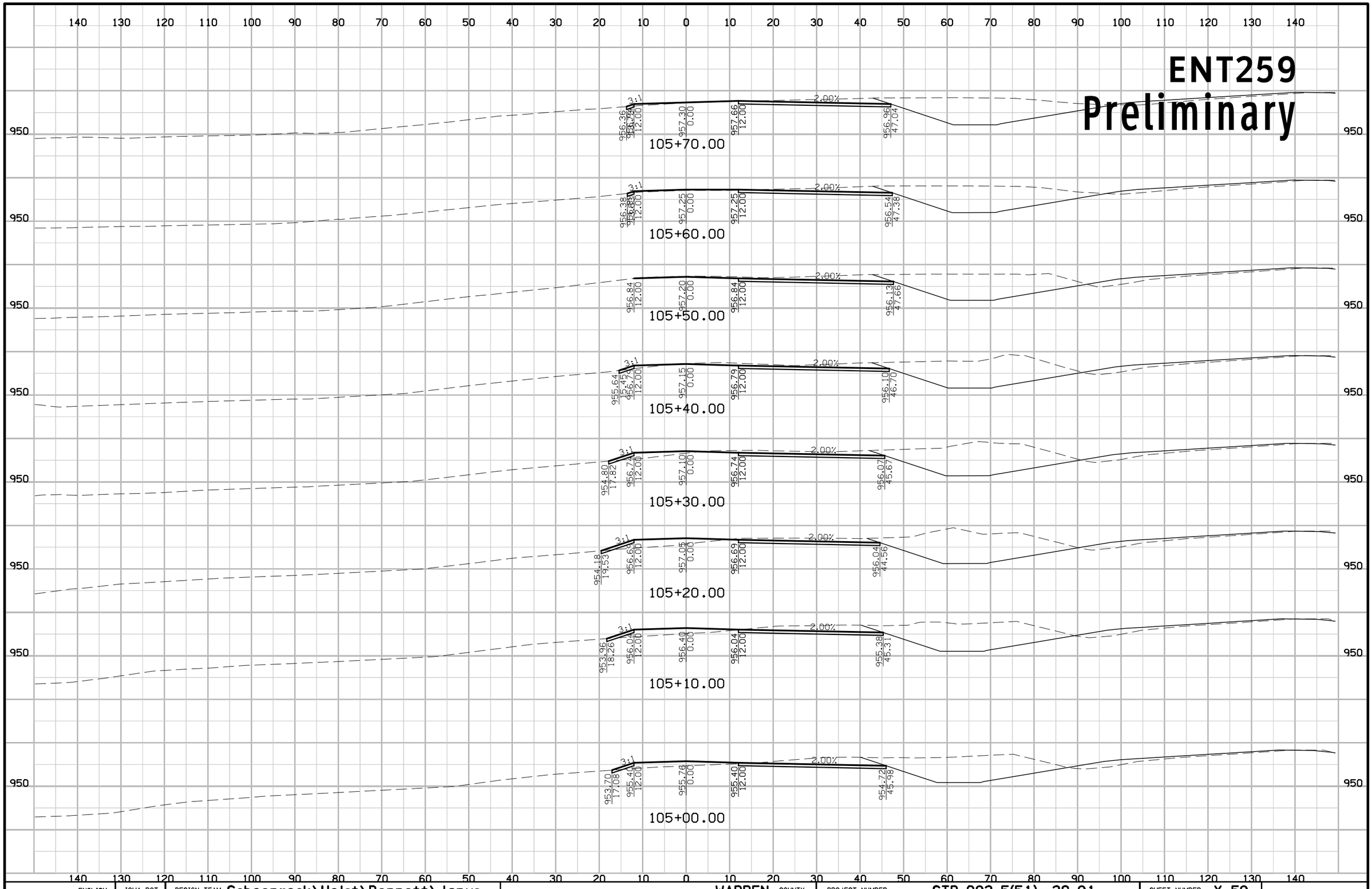


104+40.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.58

ENT259
Preliminary



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ENT259
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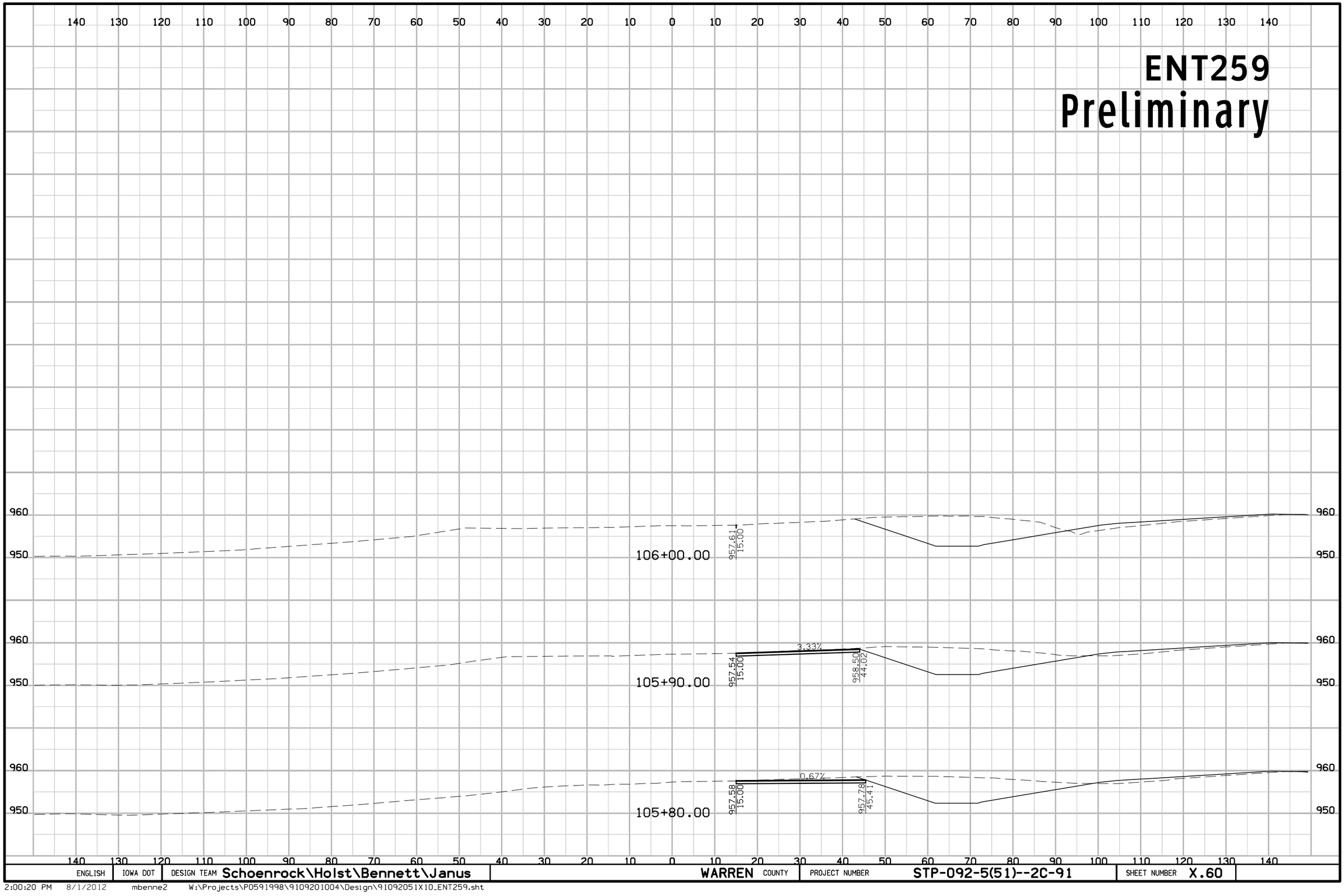

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DETR63

Preliminary

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965
960
955

18387+00.00

960
955

18386+75.00

960
955

18386+50.00

960
955

18386+48.19

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.61

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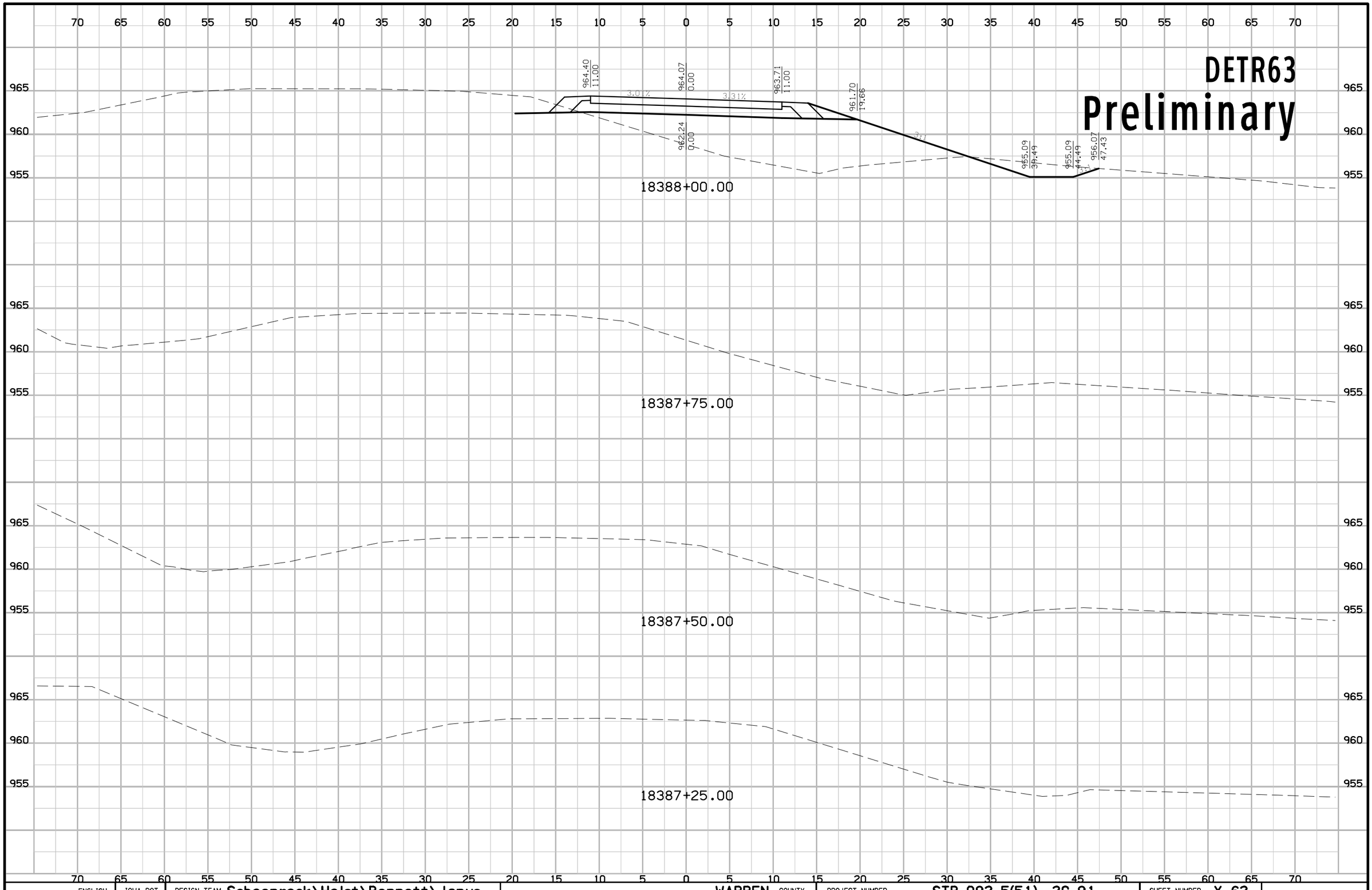
DETR63

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.62

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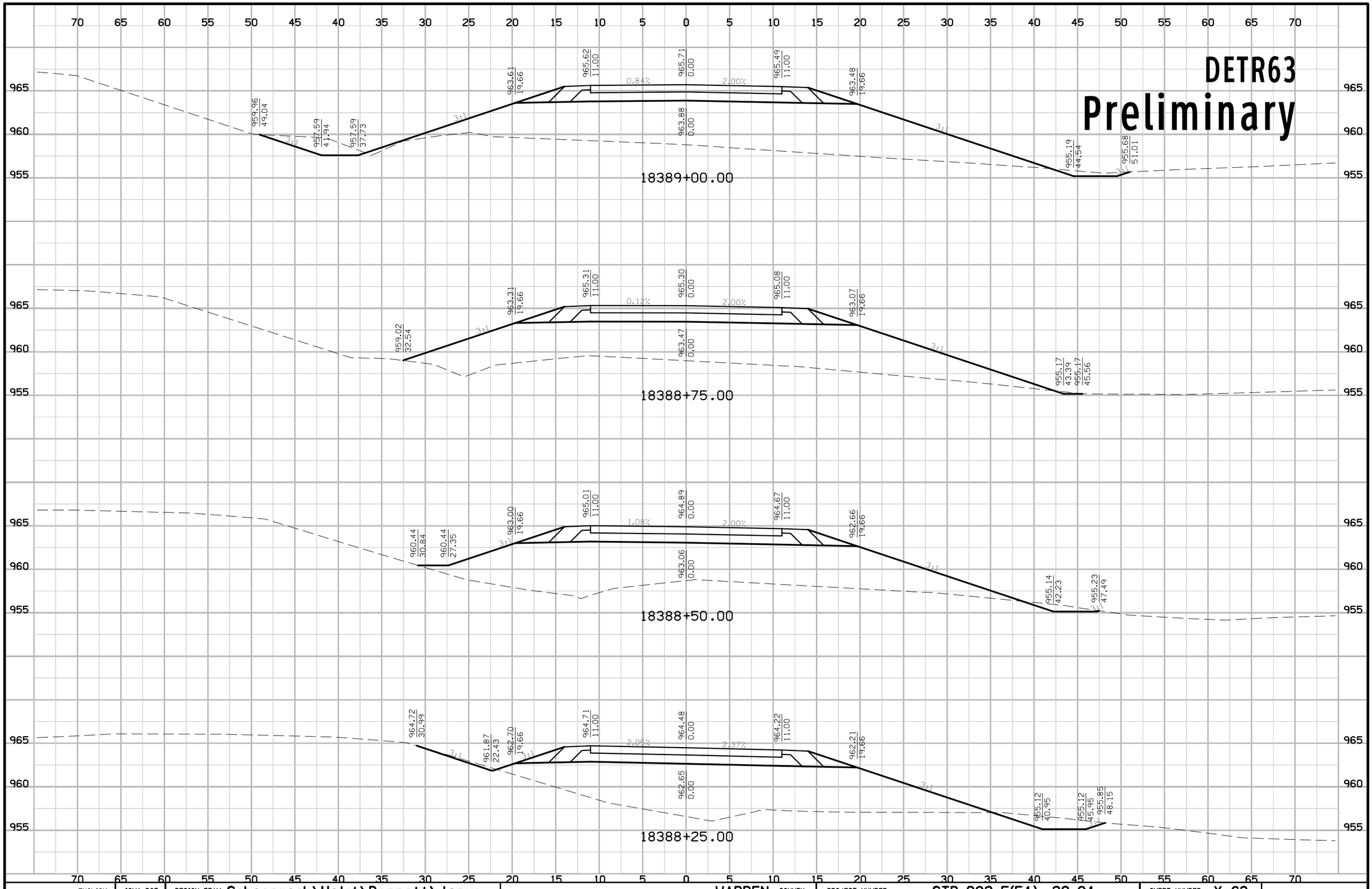
DETR63

Preliminary



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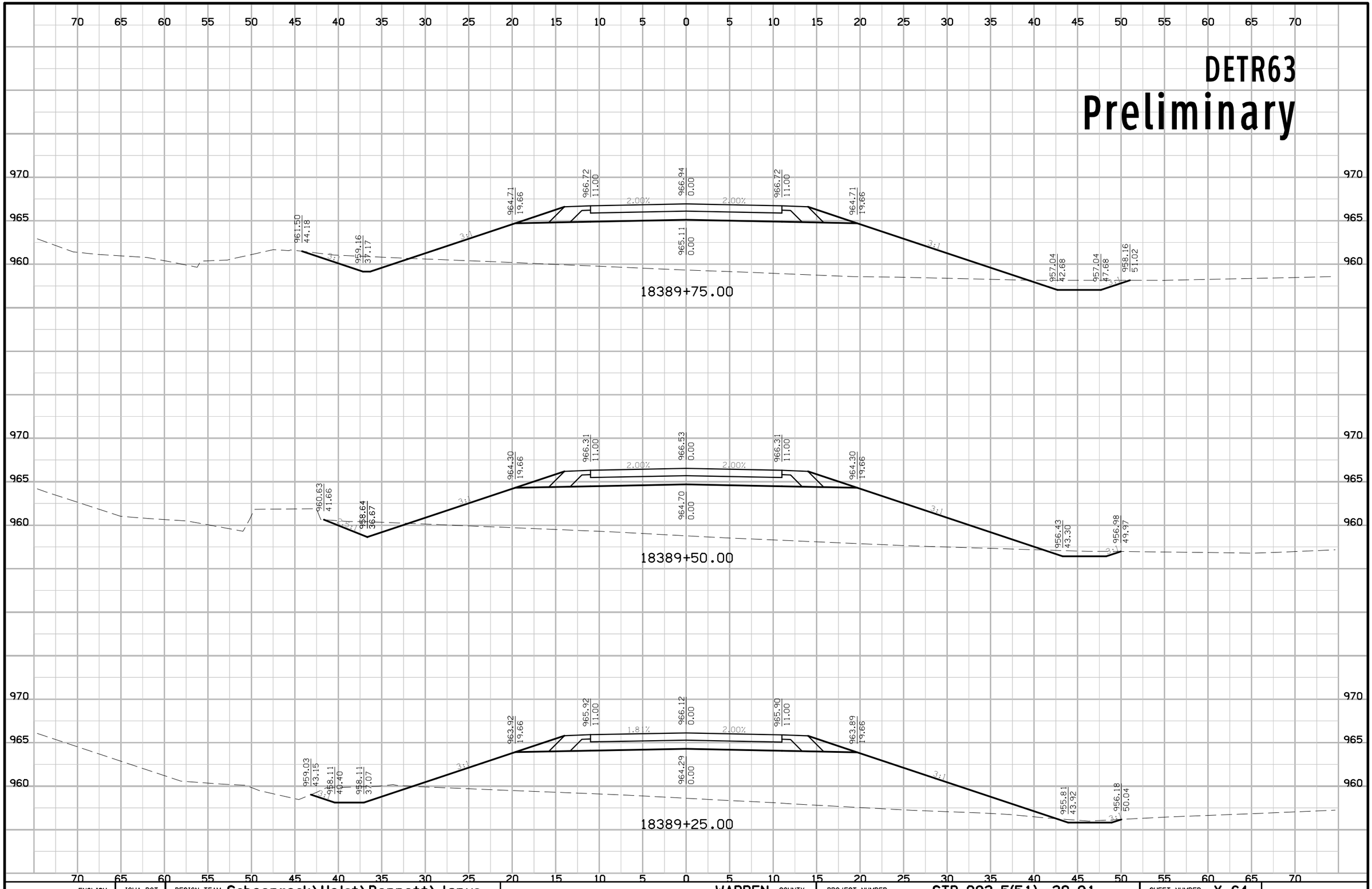
DETR63

Preliminary



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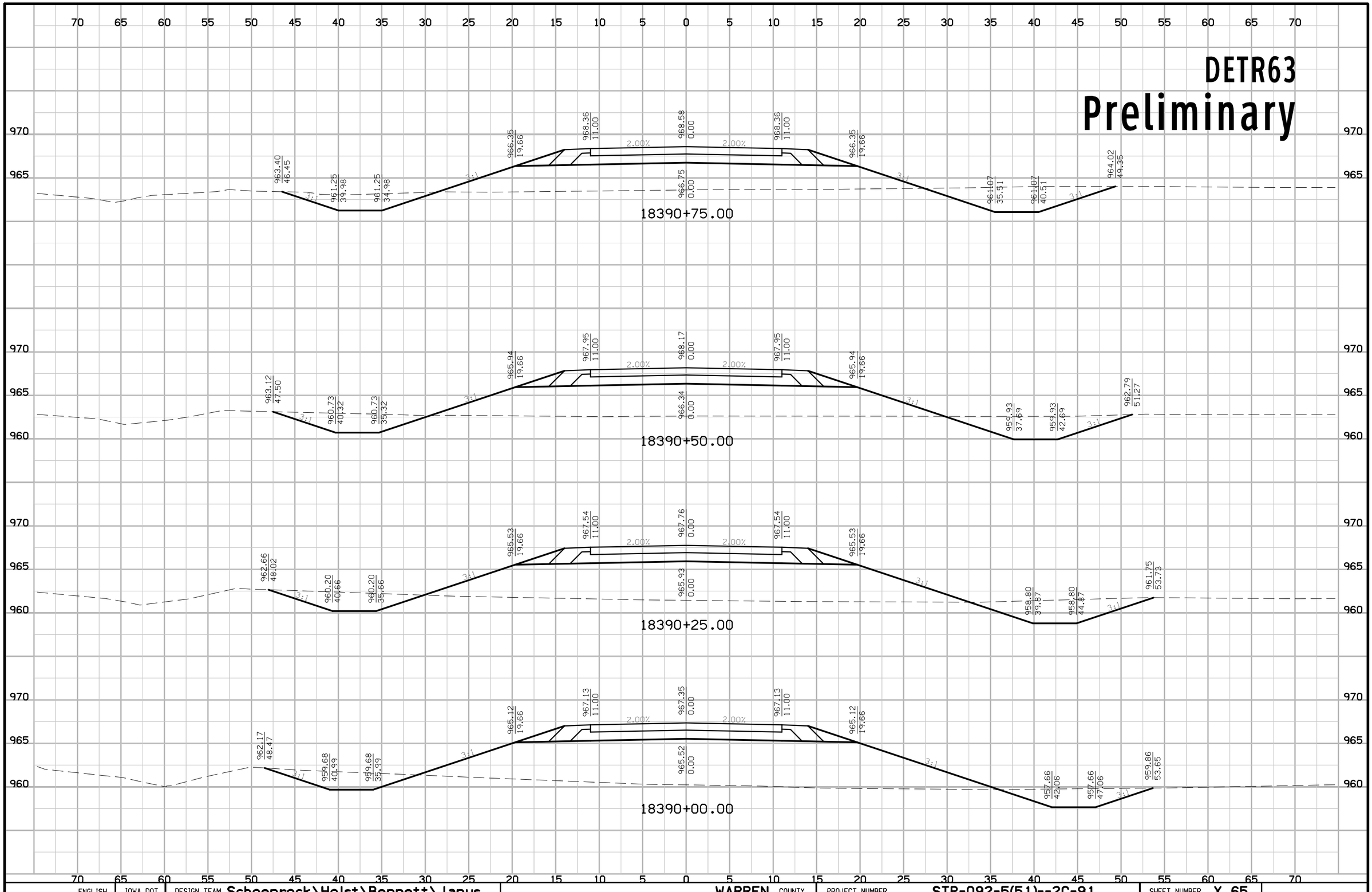
DETR63

Preliminary



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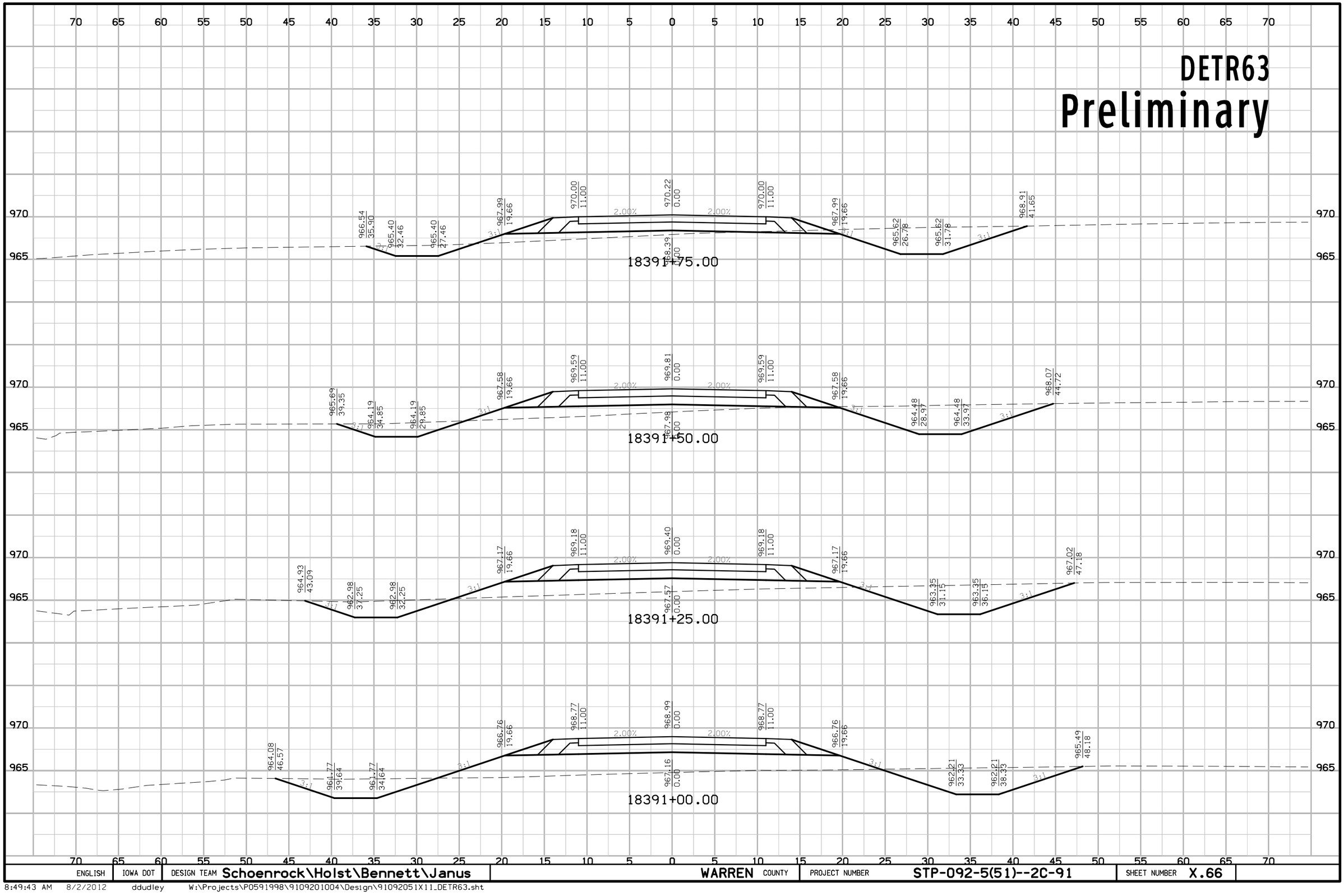
DETR63

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.66

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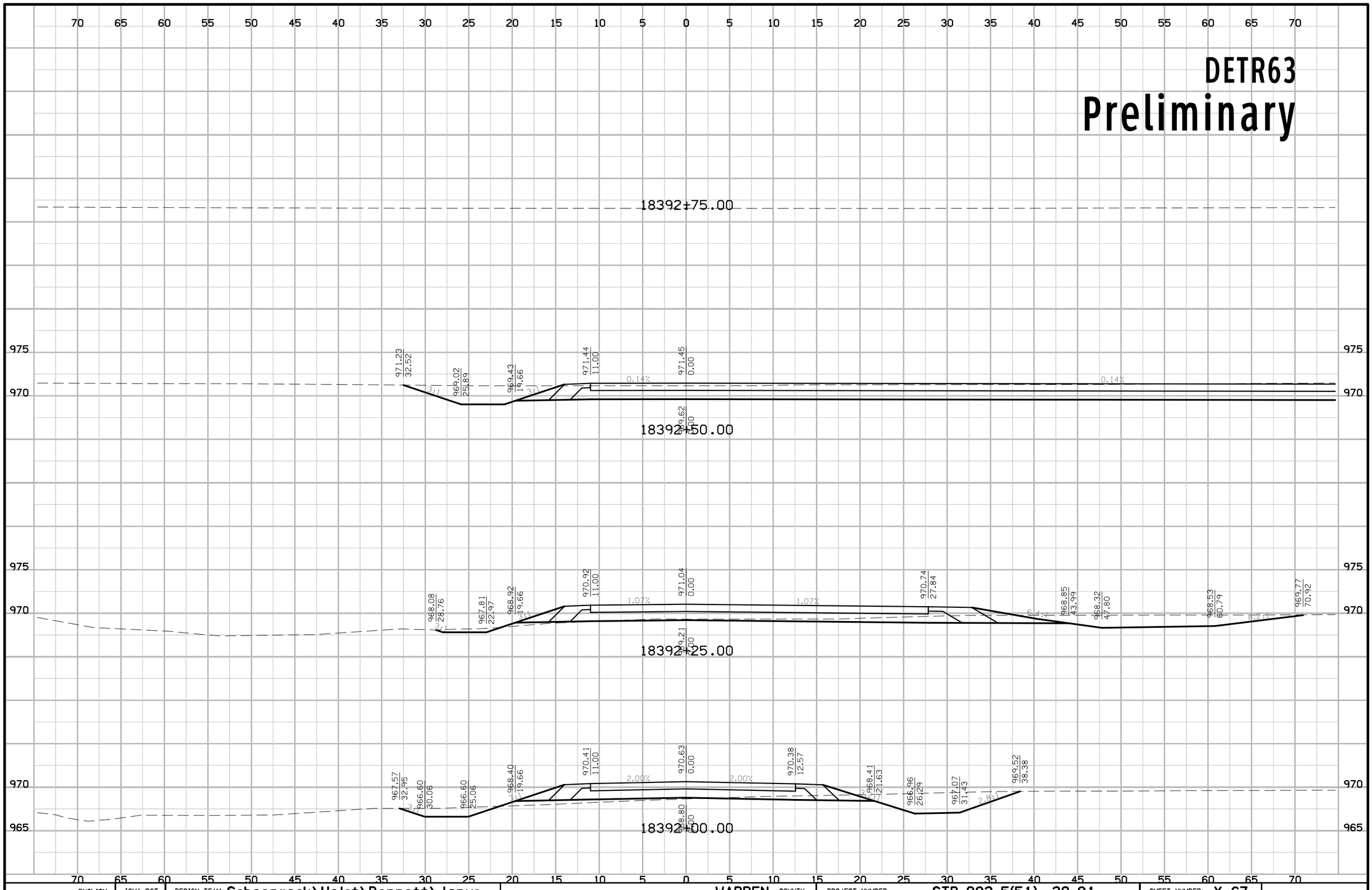
DETR63

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.67

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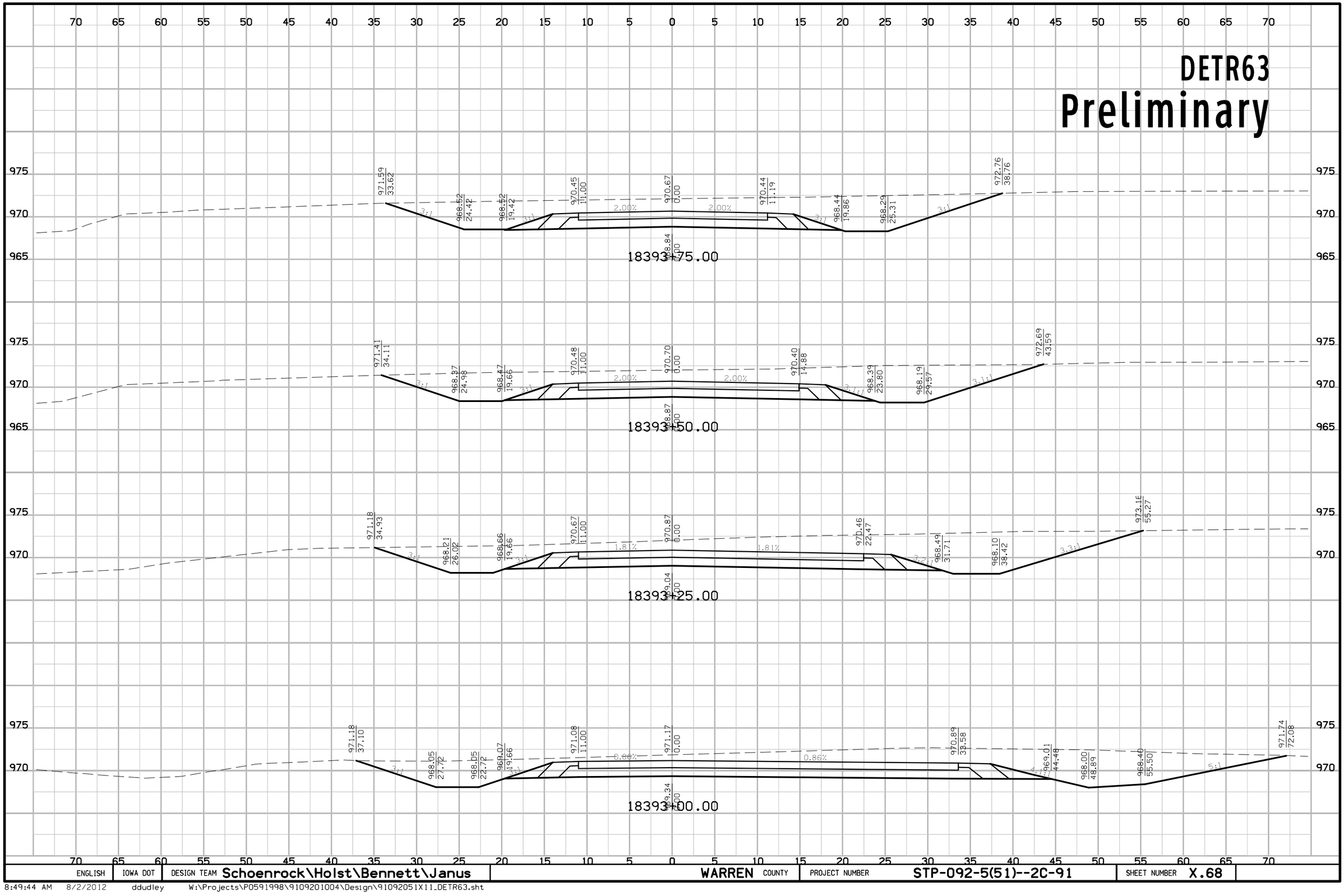
DETR63

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.68

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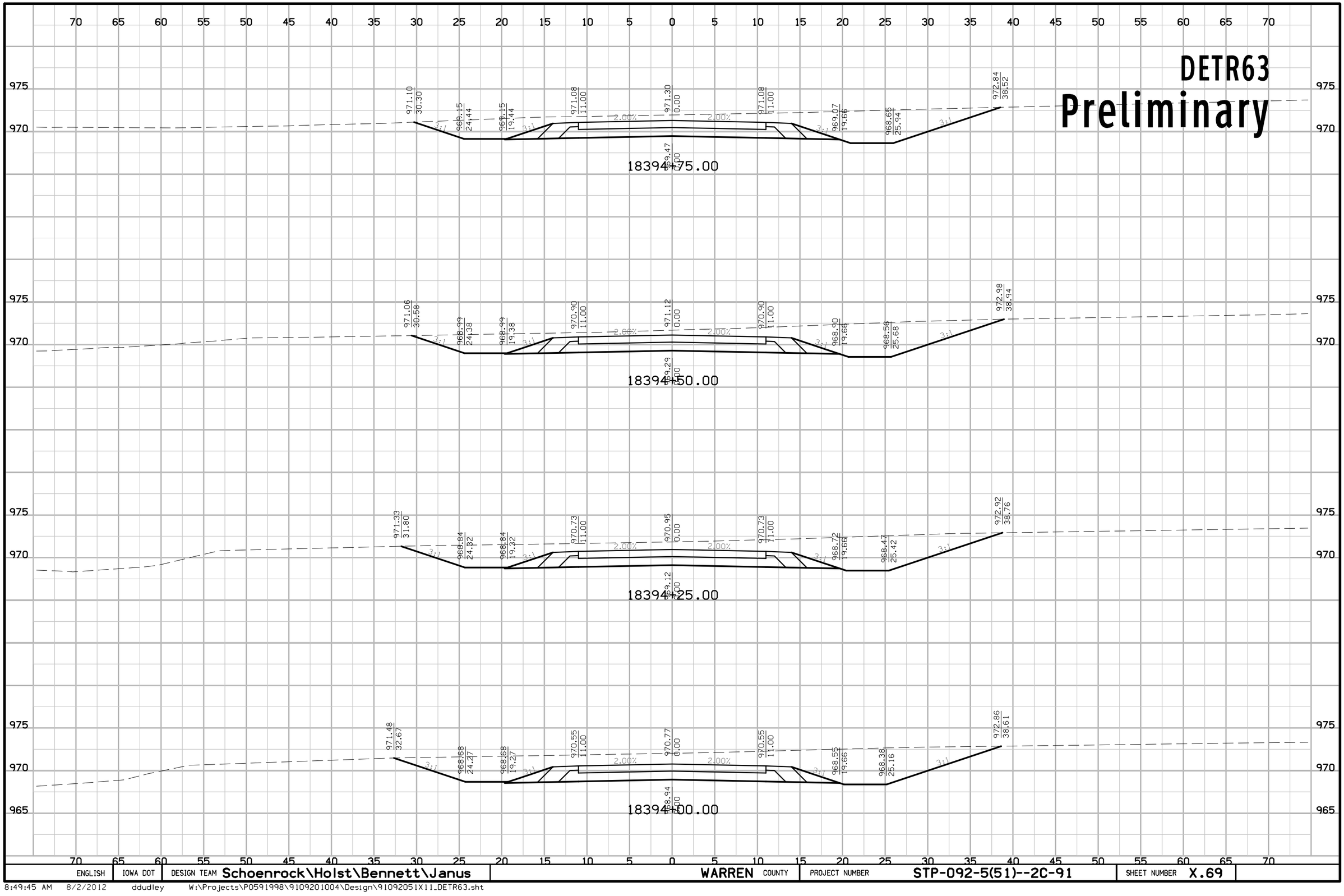
DETR63

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.69

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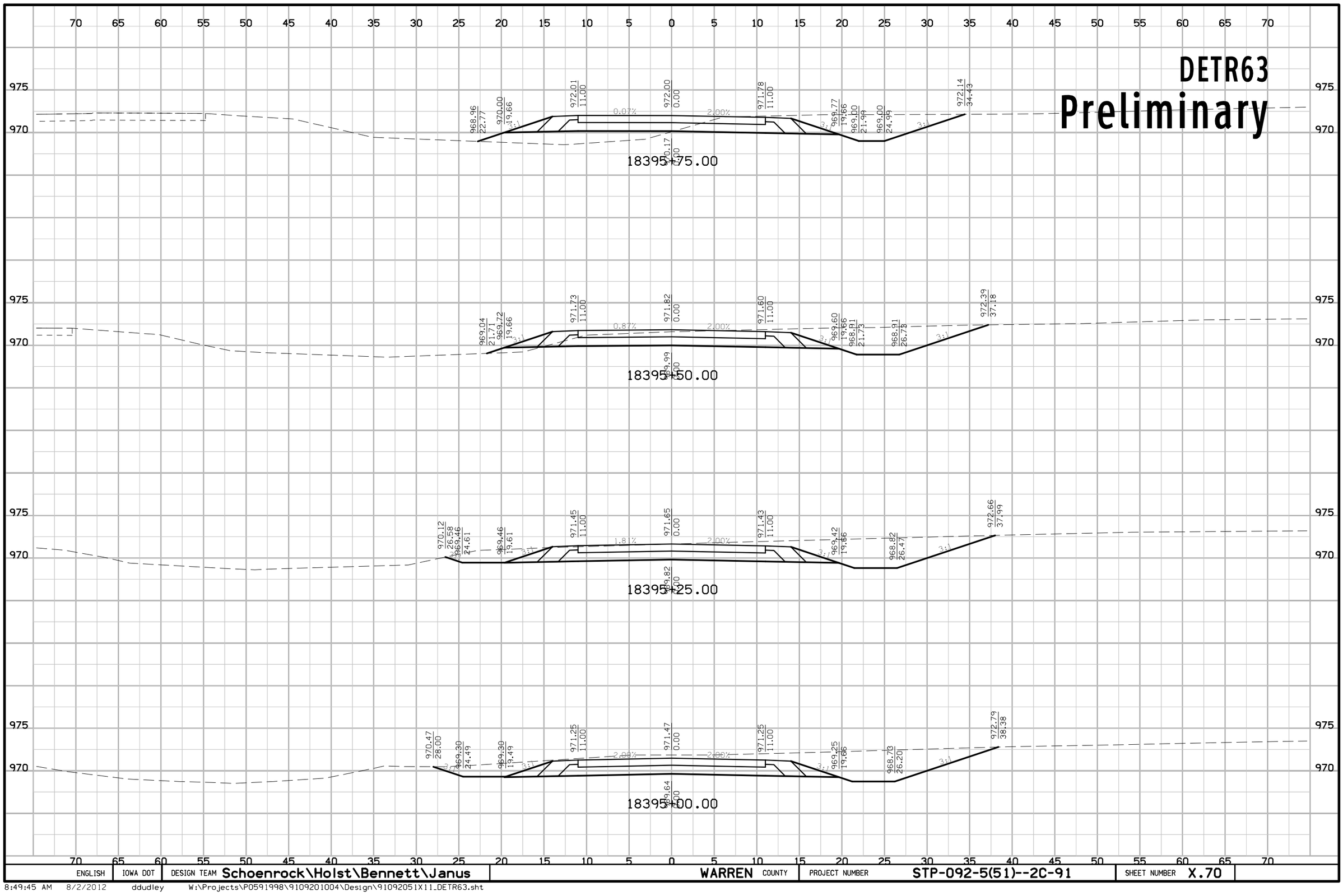
DETR63

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.70

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DETR63

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

975
970

18397+25.00

18397+00.00

18396+75.00

18396+50.00

18396+25.00

18396+00.00

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER	STP-092-5(51)--2C-91	SHEET NUMBER X.71

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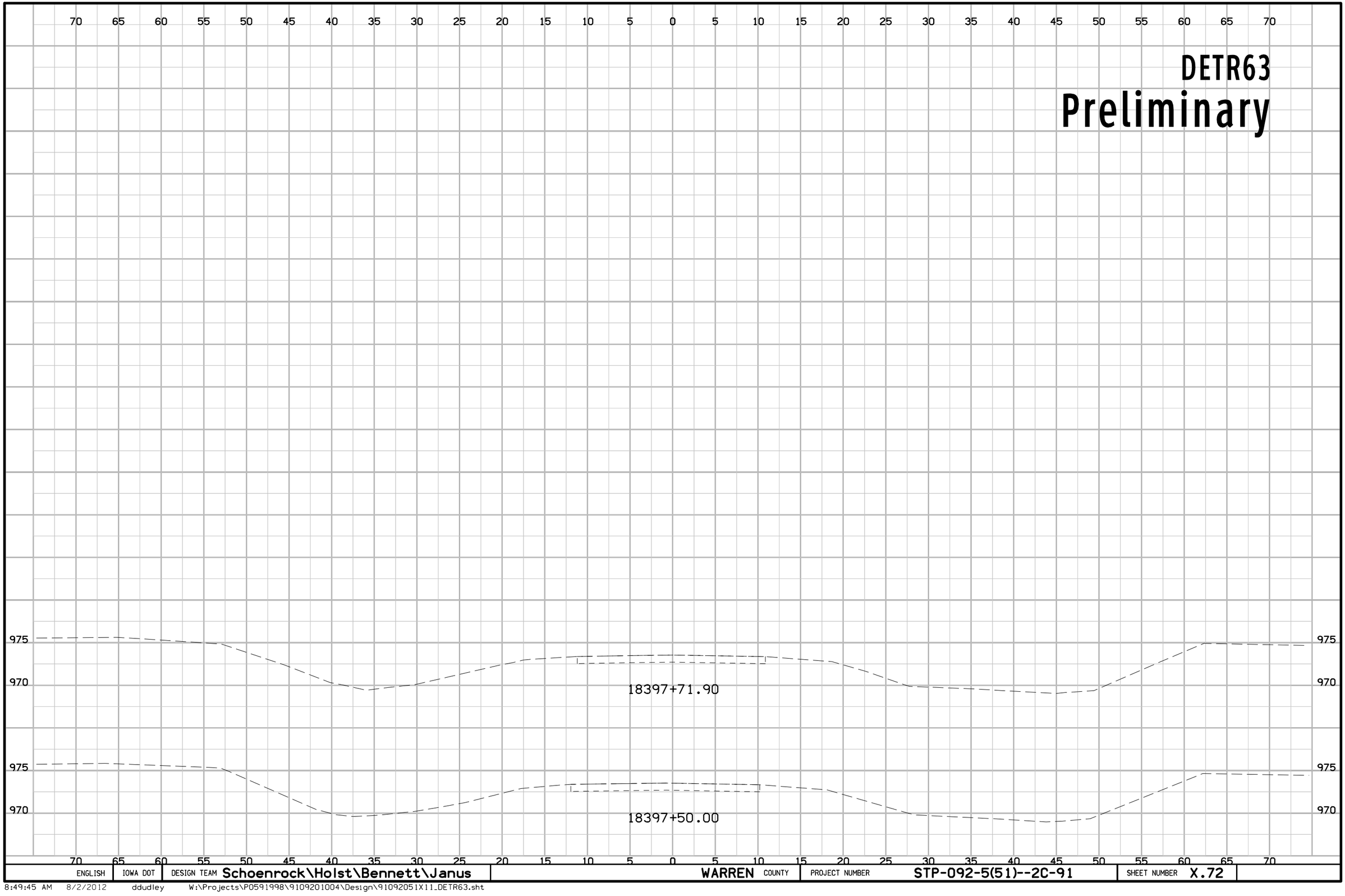
DETR63

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.72

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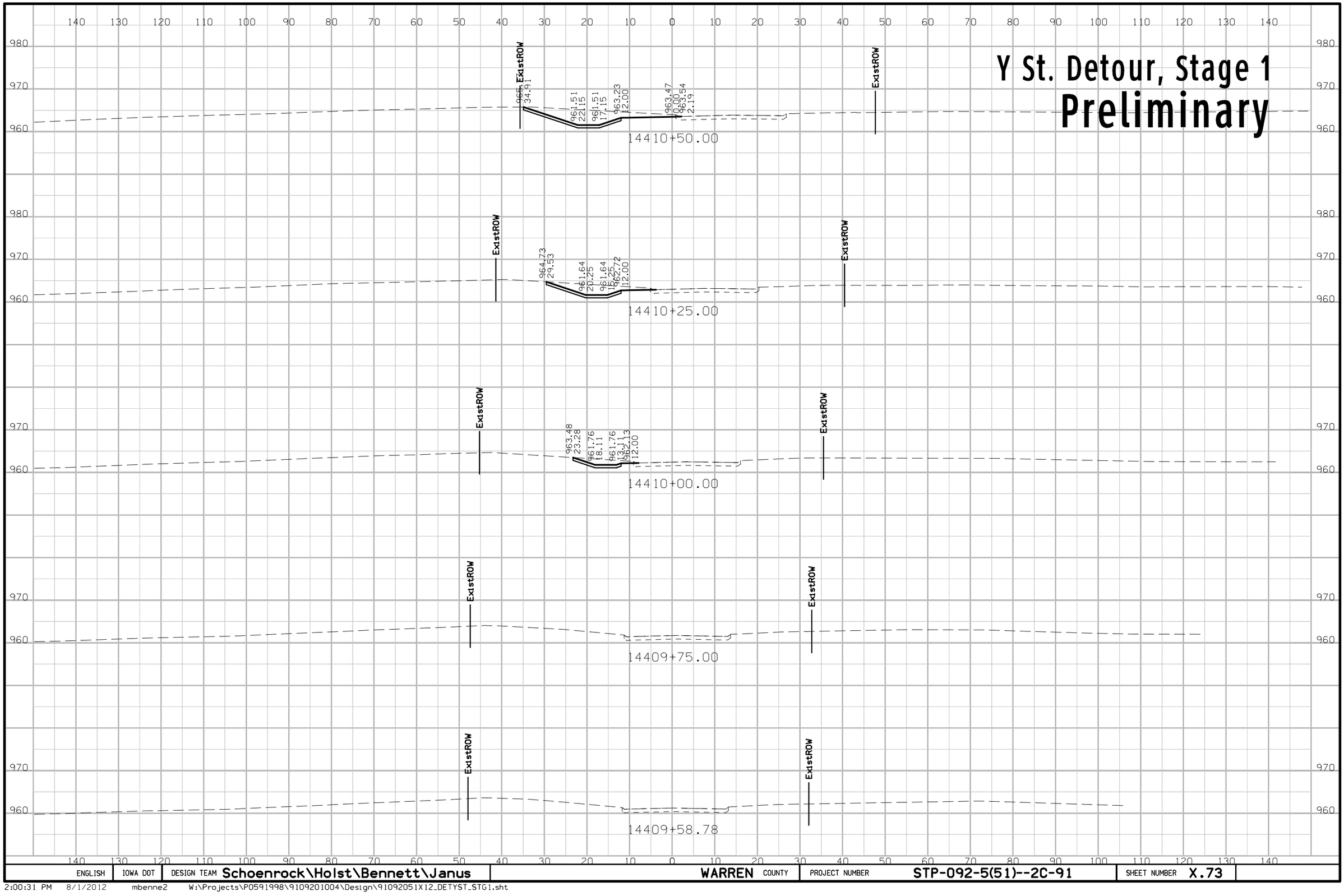
Y St. Detour, Stage 1

Preliminary



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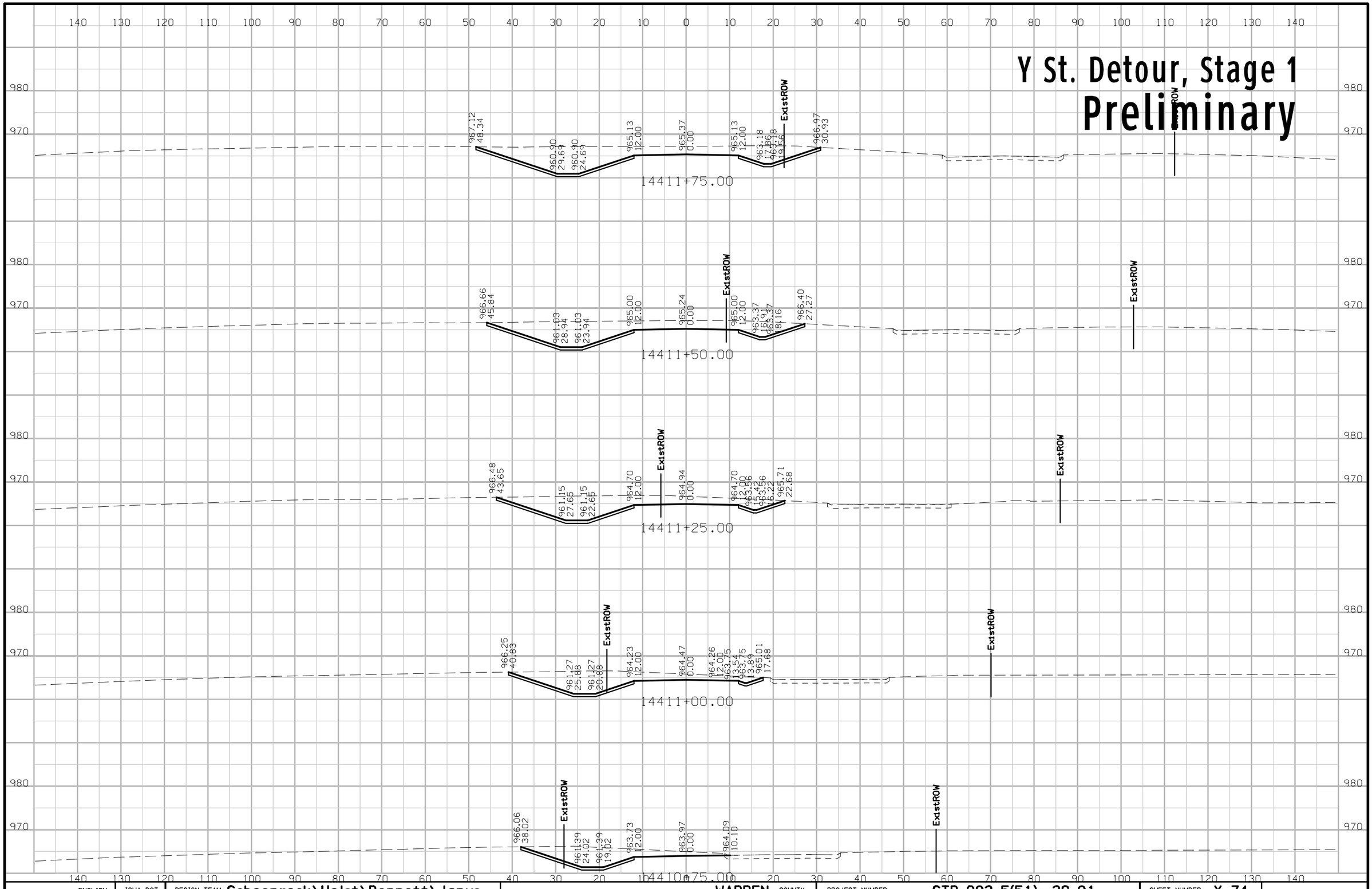
Y St. Detour, Stage 1

Preliminary



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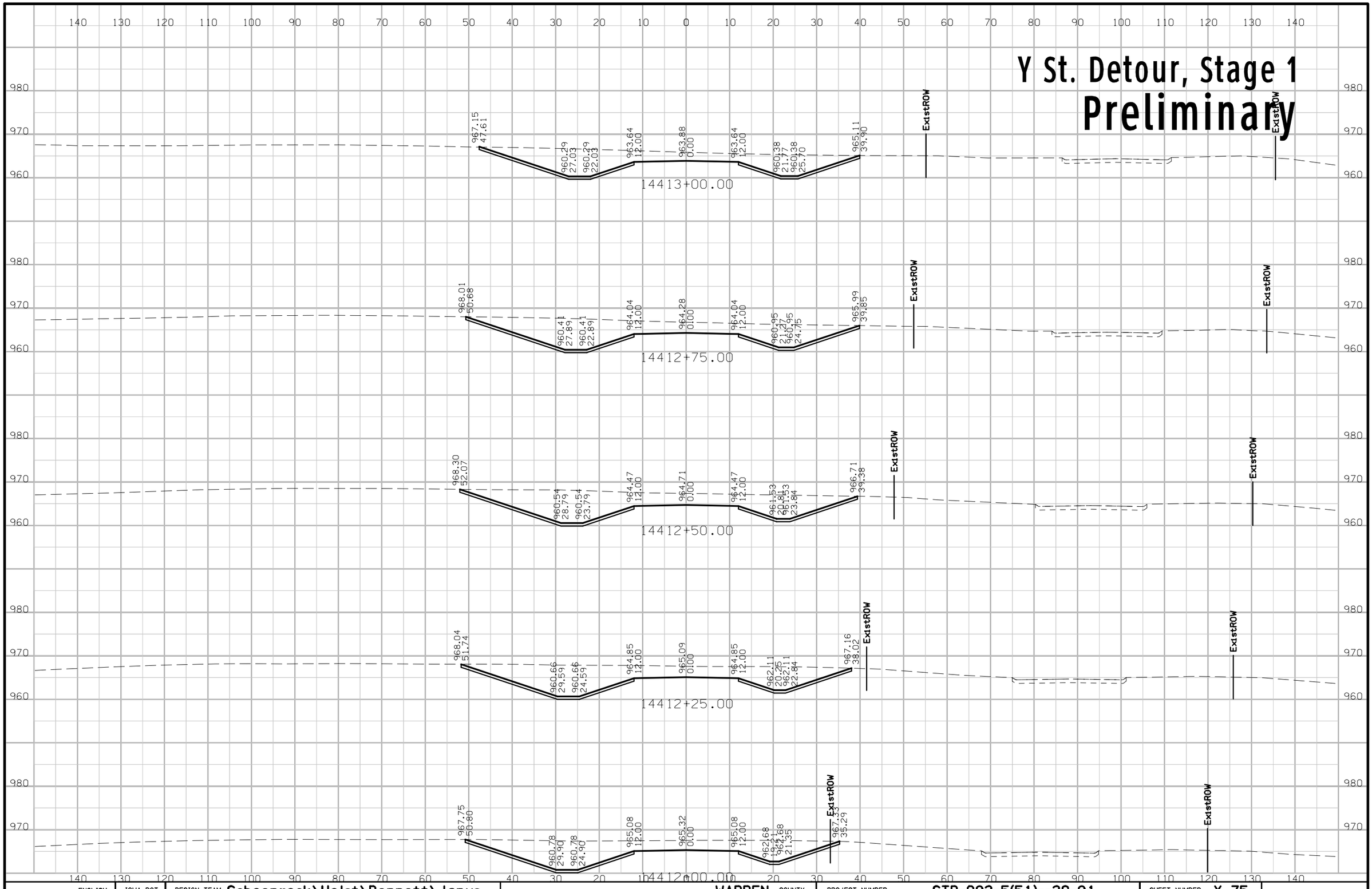
Y St. Detour, Stage 1

Preliminary



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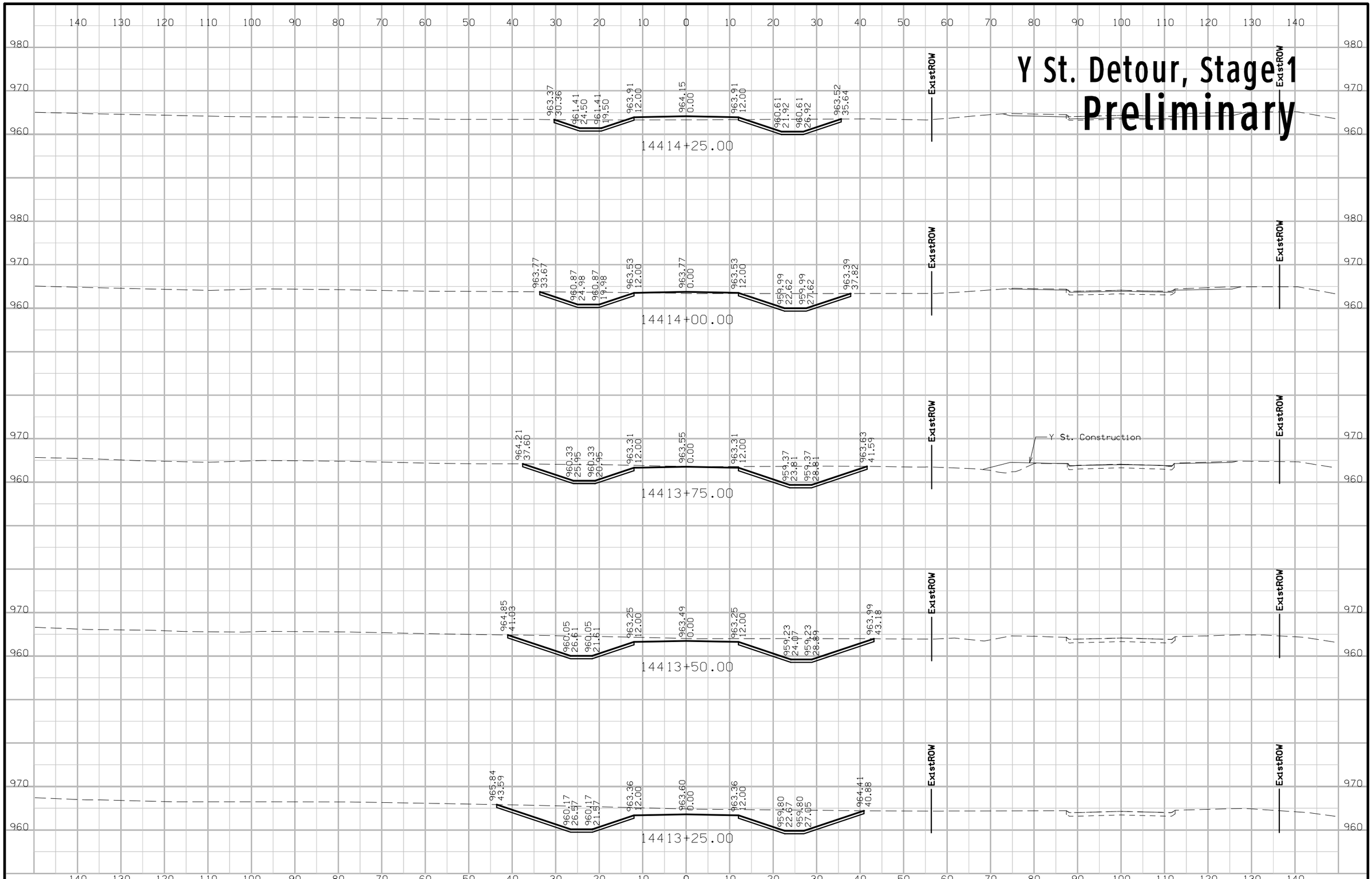
Y St. Detour, Stage 1

Preliminary



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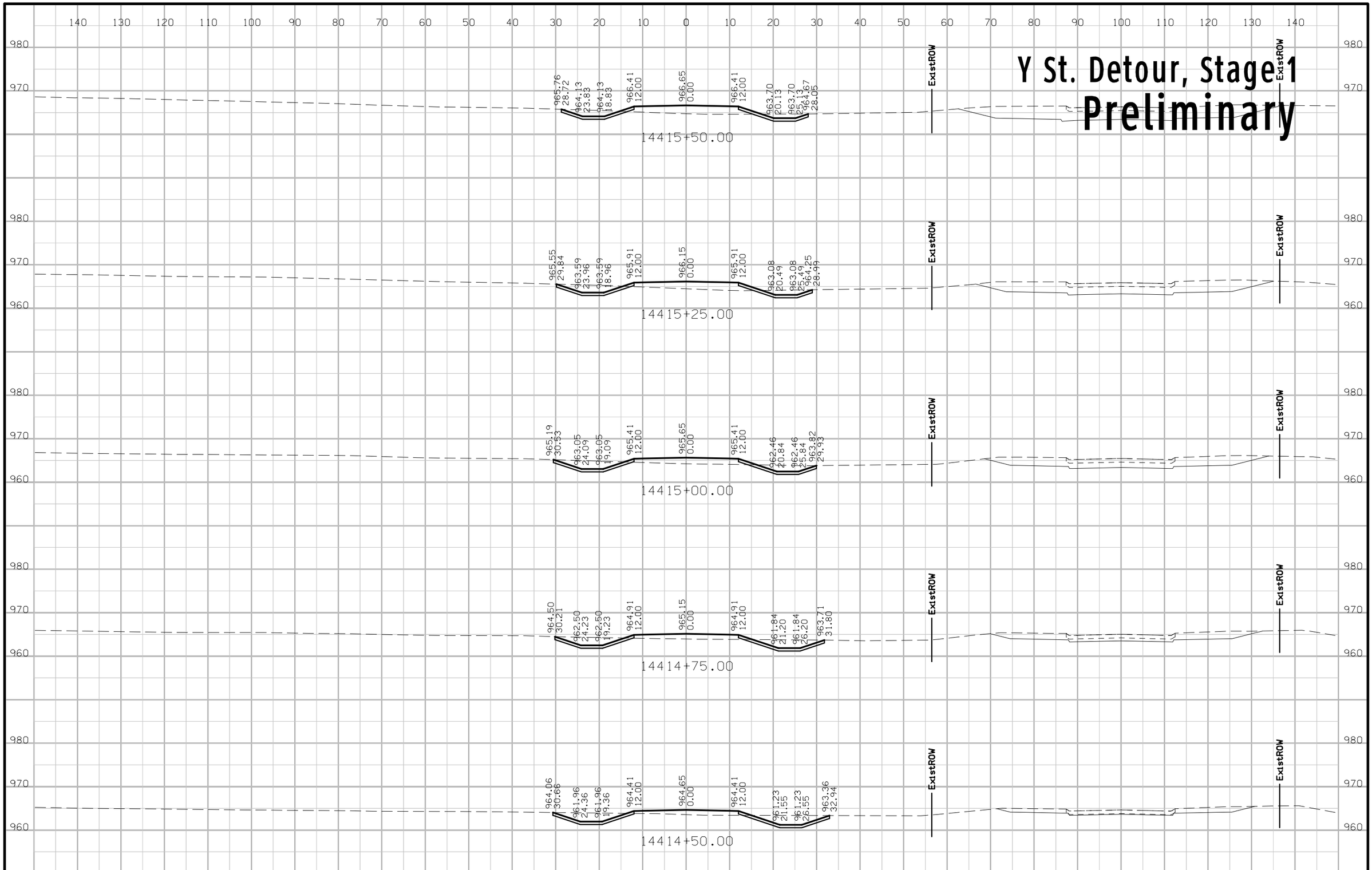
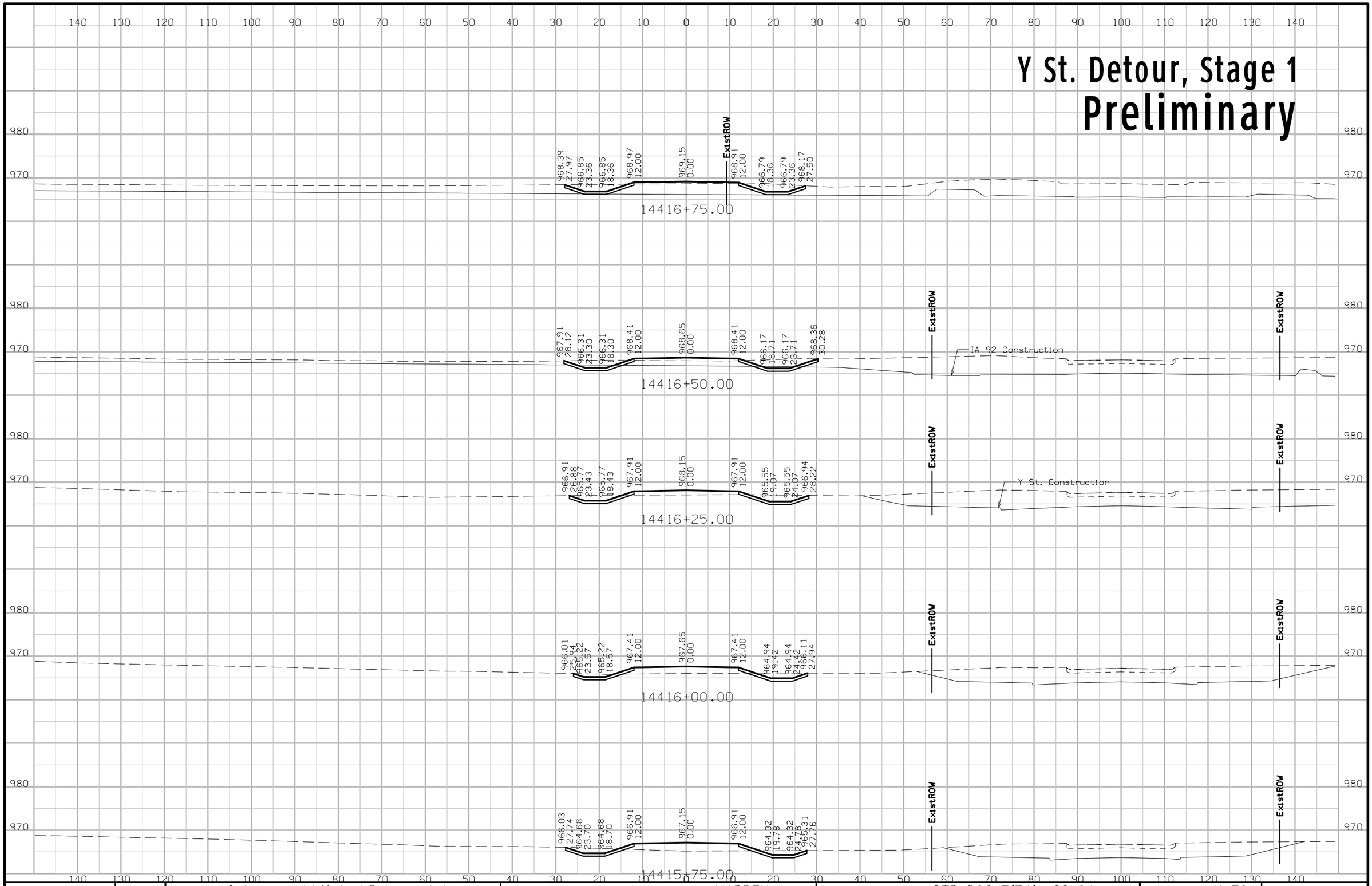
Y St. Detour, Stage 1

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.77

Y St. Detour, Stage 1
Preliminary



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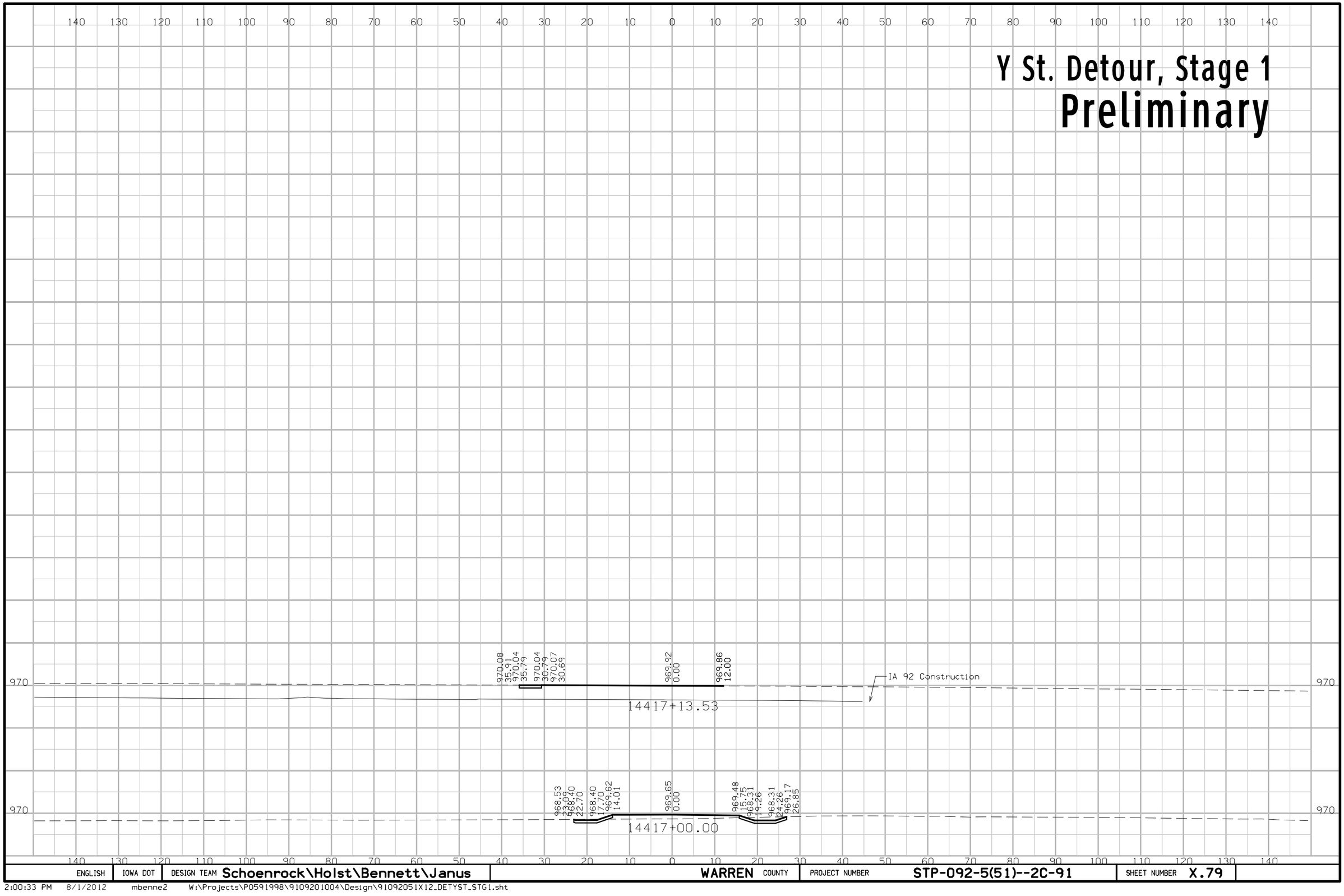
Y St. Detour, Stage 1

Preliminary



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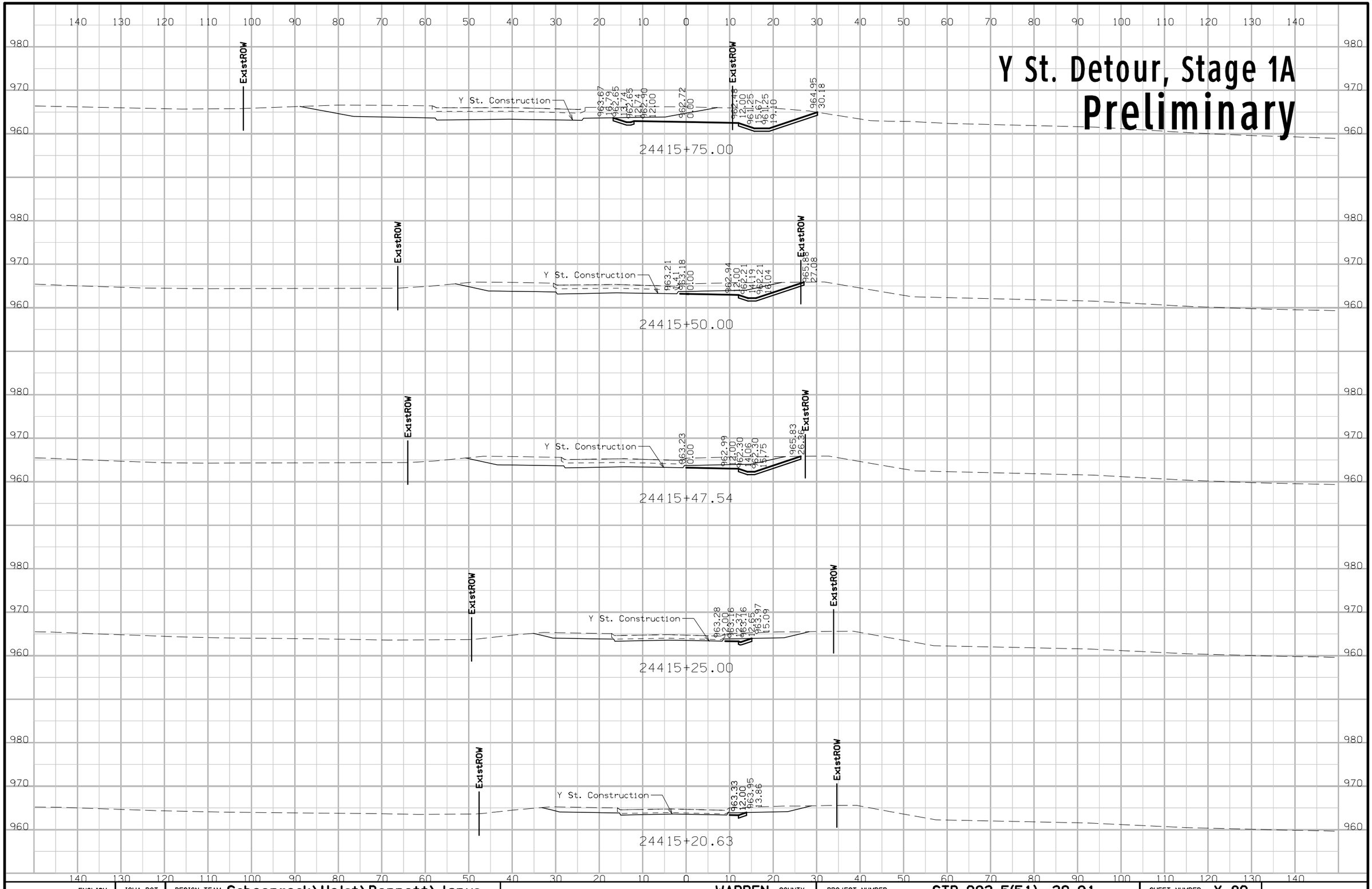
Y St. Detour, Stage 1A

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.80

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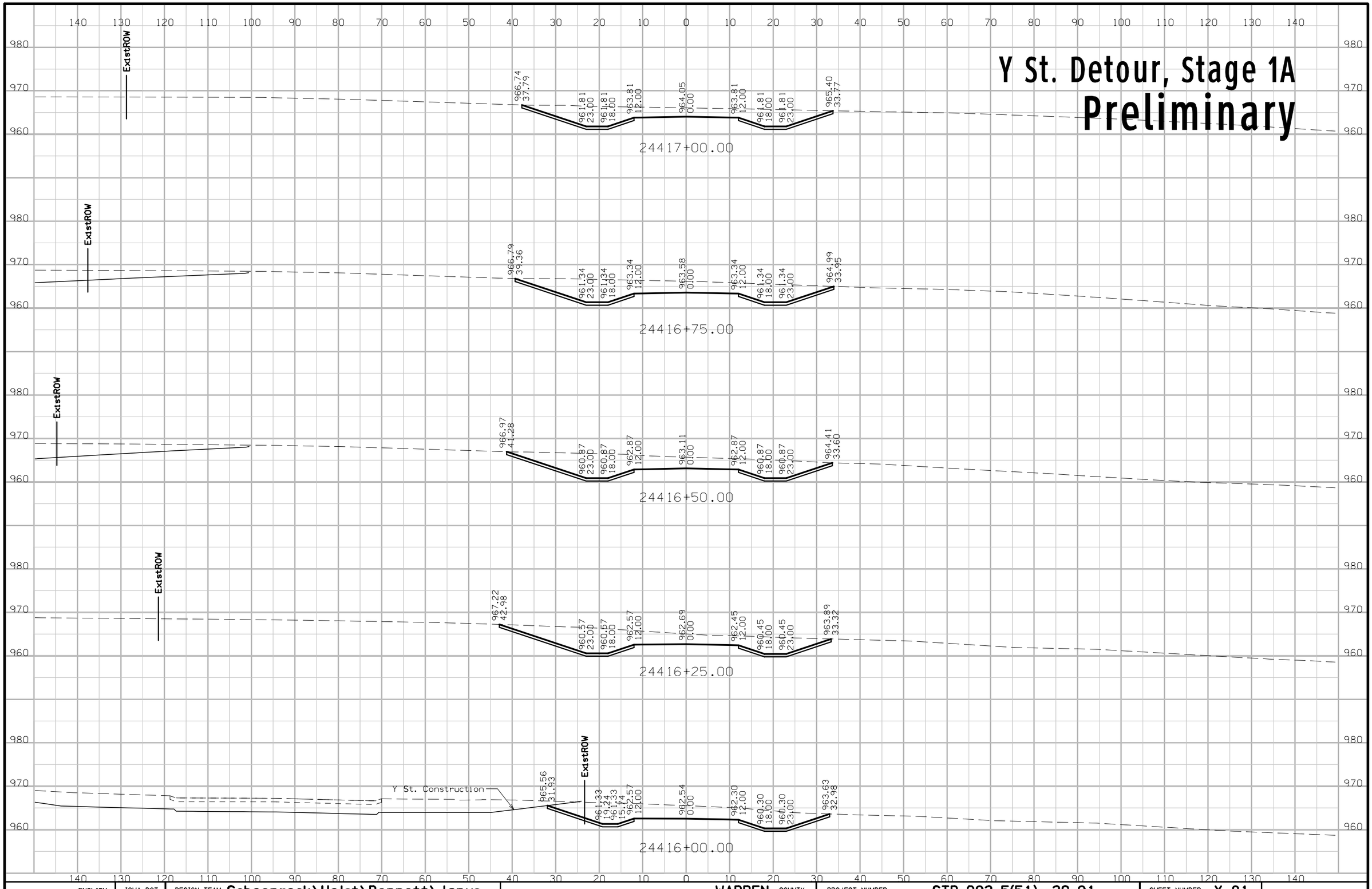
Y St. Detour, Stage 1A

Preliminary



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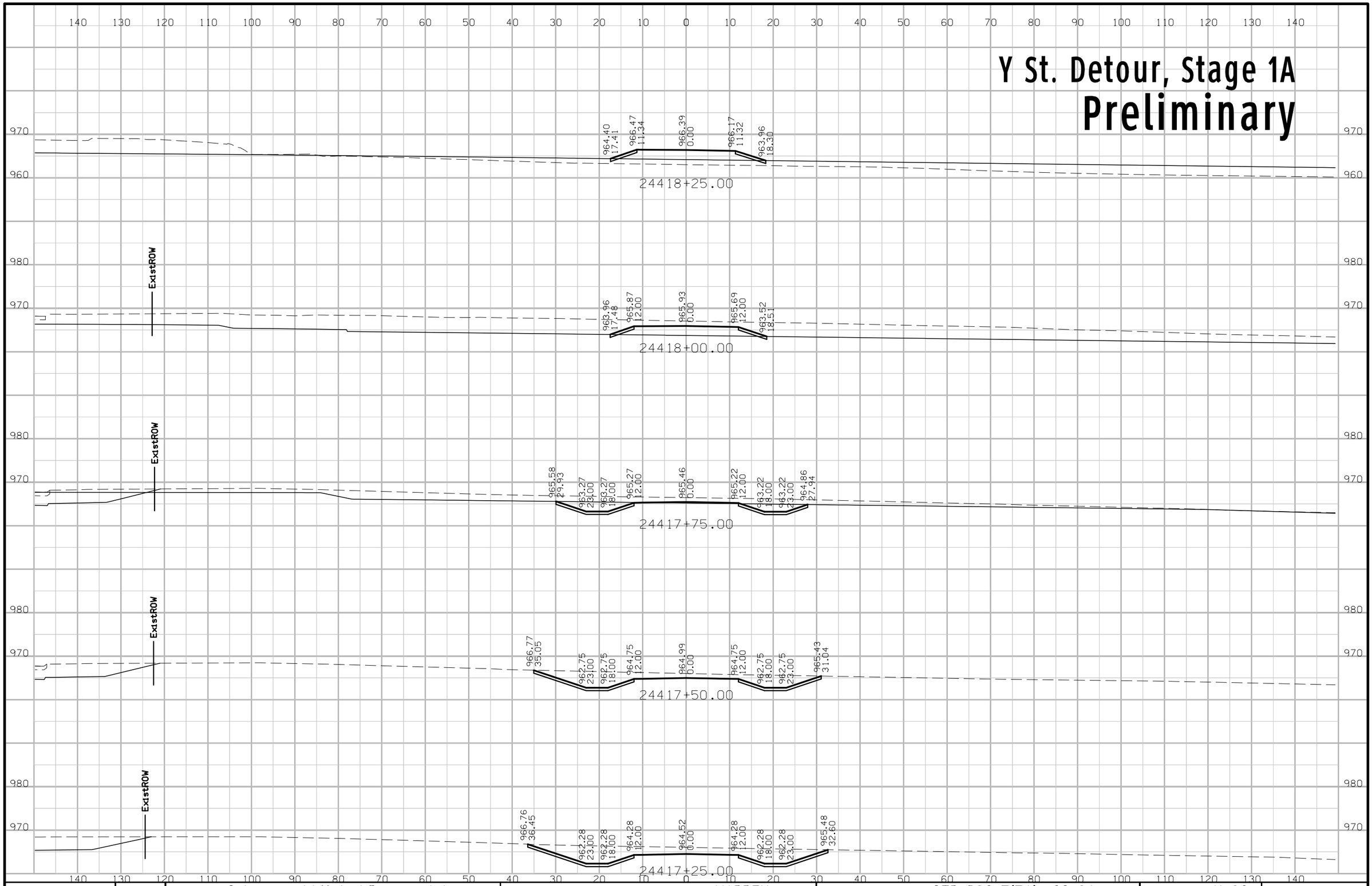
Y St. Detour, Stage 1A

Preliminary



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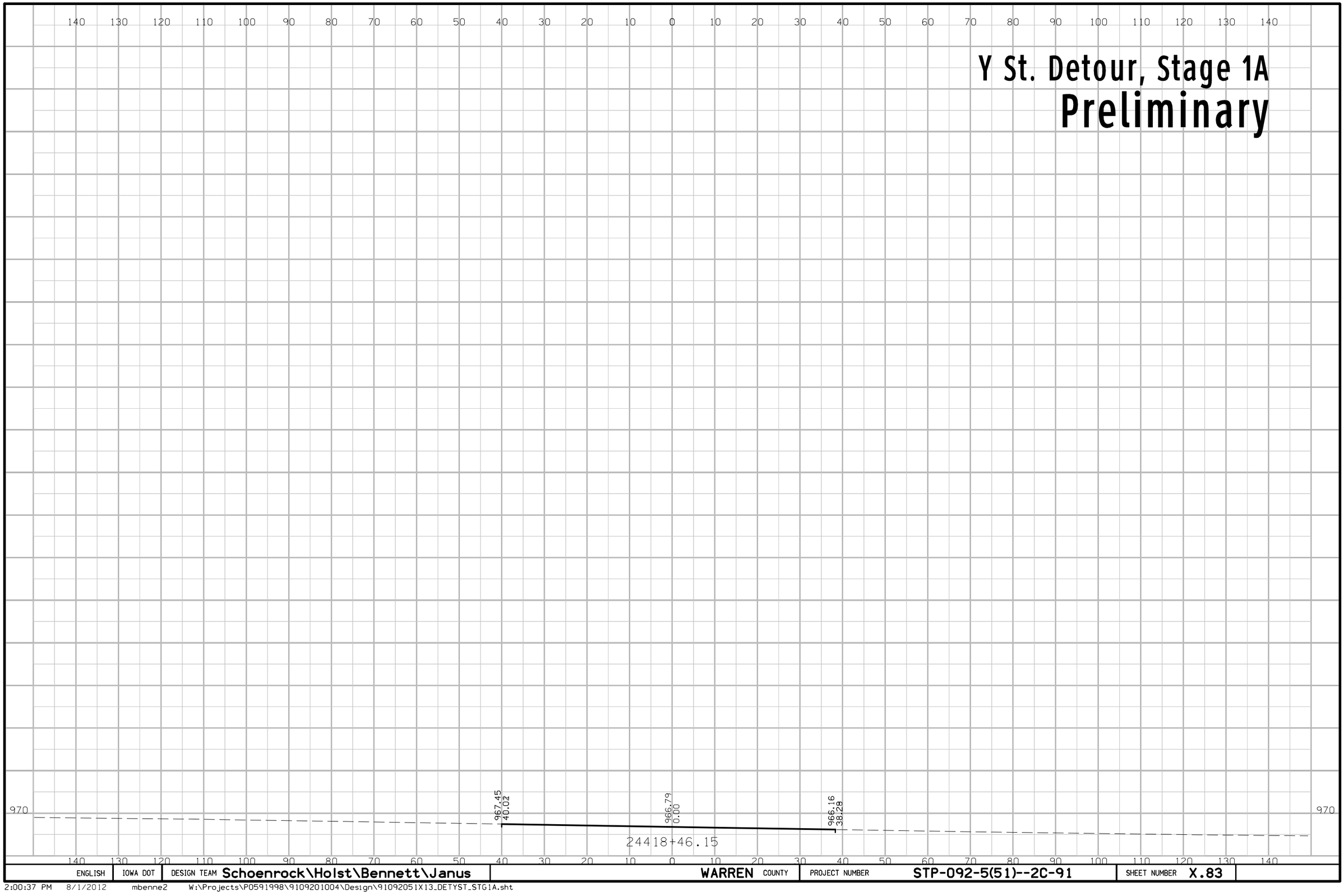
Y St. Detour, Stage 1A

Preliminary



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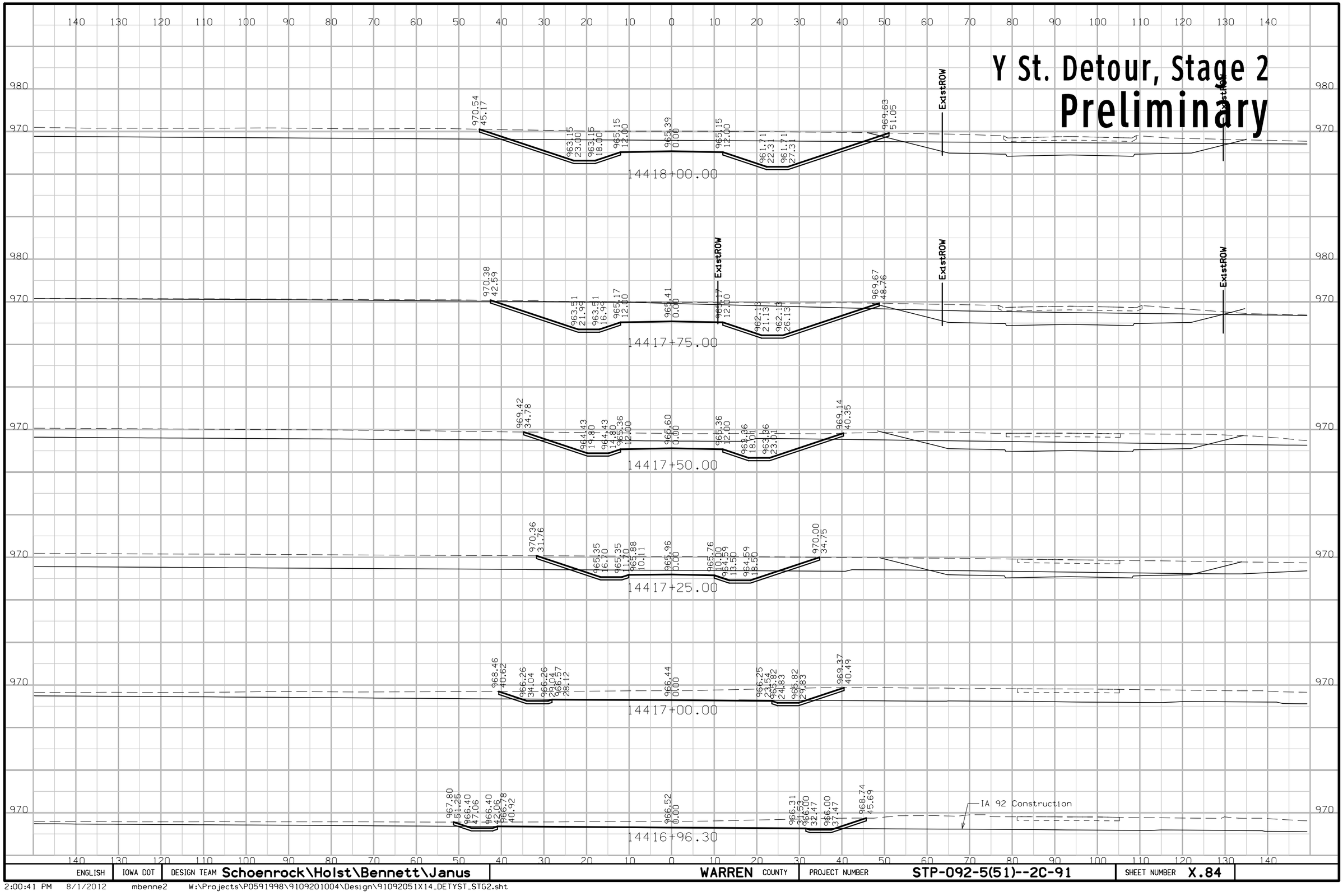
Y St. Detour, Stage 2

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.84

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Y St. Detour, Stage 2

Preliminary

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.85

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Y St. Detour, Stage 2

Preliminary

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.86

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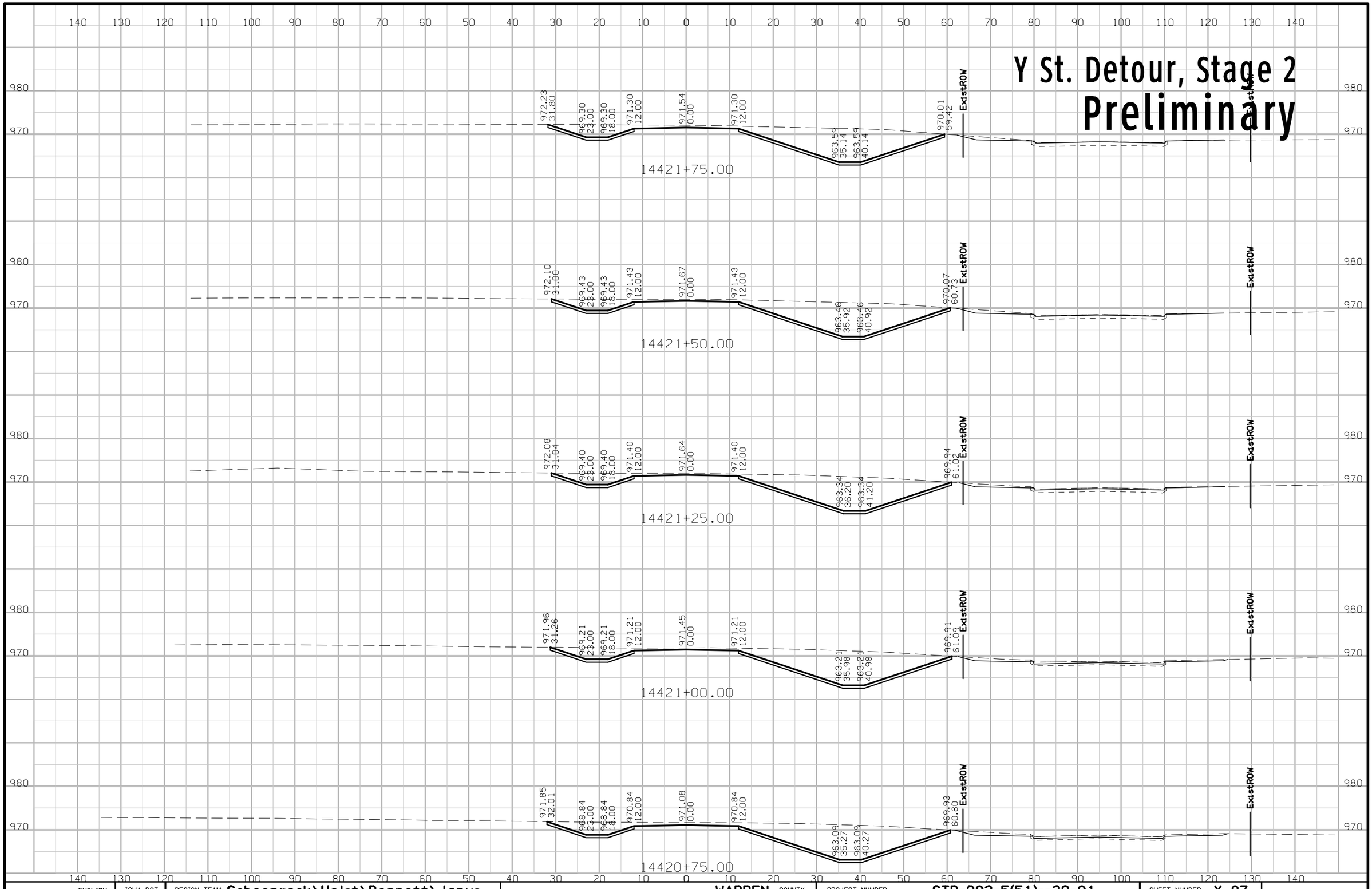
Y St. Detour, Stage 2

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.87

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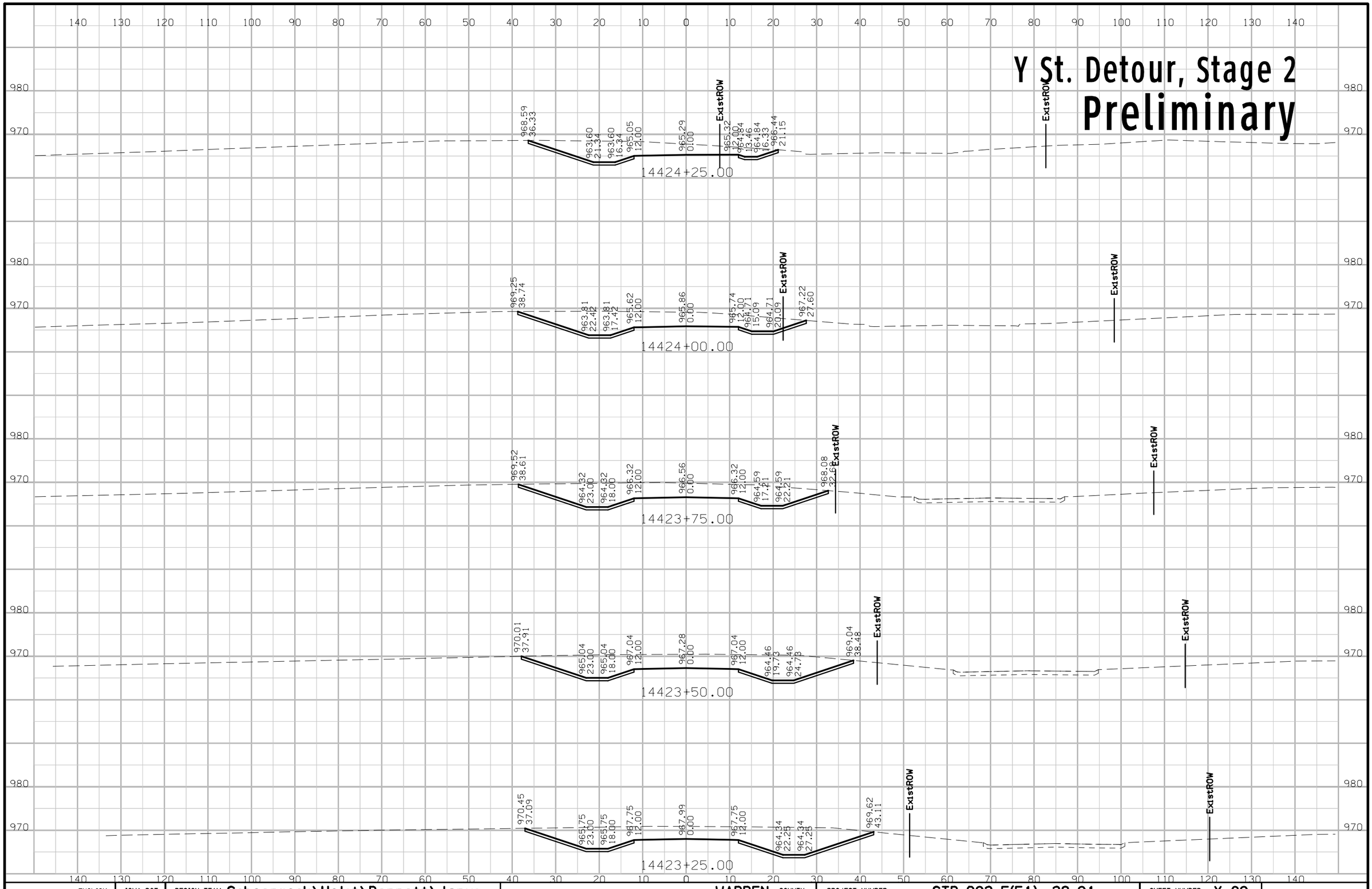
Y St. Detour, Stage 2

Preliminary

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.88

Y St. Detour, Stage 2

Preliminary



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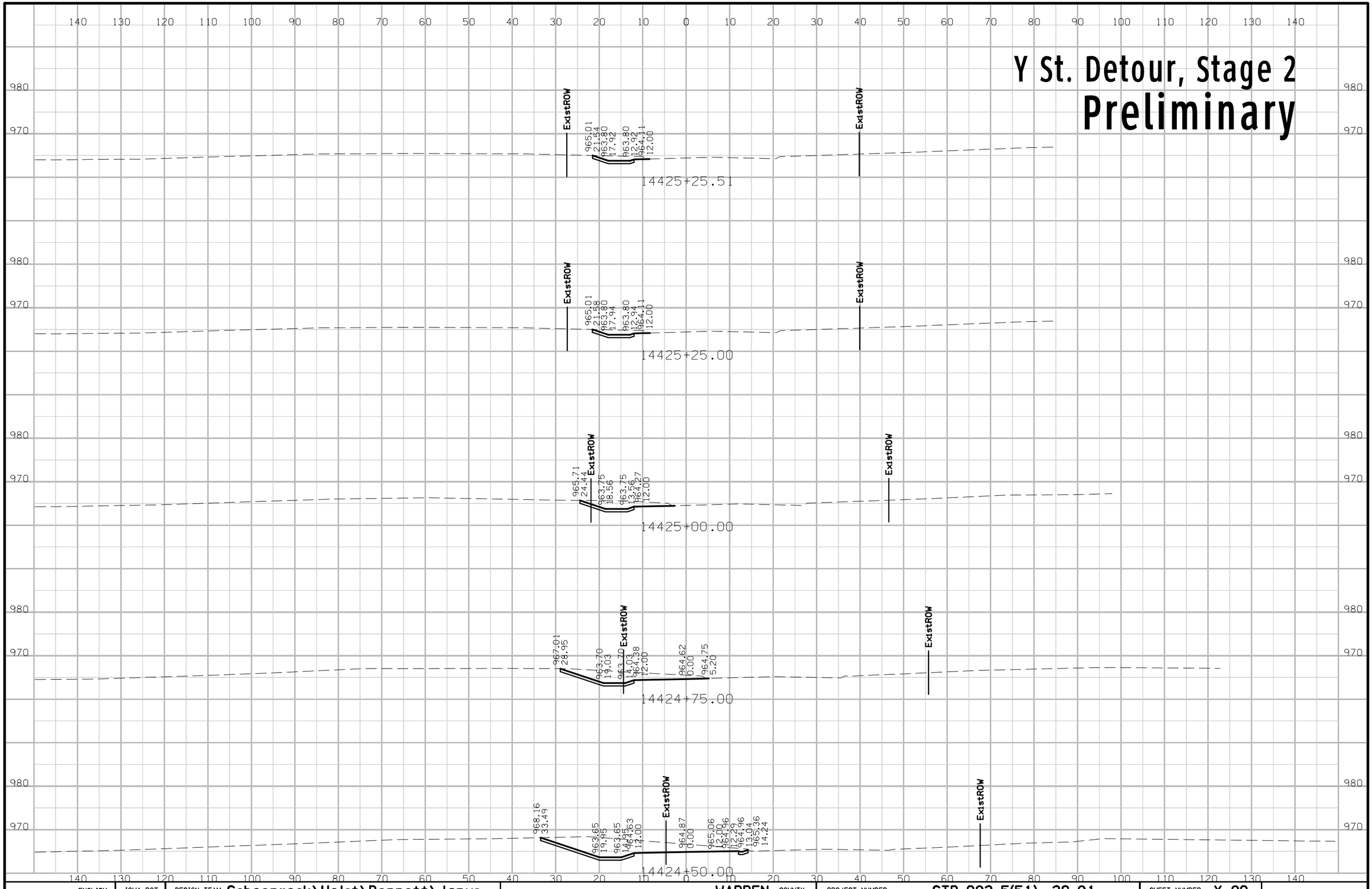
Y St. Detour, Stage 2
Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.90

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DET_ML092_NE

Preliminary

125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20

980 975 970 965

968.06
75.70
ExistROW
964.08
65.75
964.08
60.75
964.96
58.10
966.40
51.68
966.44
49.67
2.00%
965.10
49.67

439+50.00

967.53
77.02
ExistROW
964.01
68.21
964.01
63.21
964.86
60.65
966.30
54.24
966.34
52.23
2.00%
965.00
52.23

439+25.00

ExistROW

439+00.00

ExistROW

ExistROW

ExistROW

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.91

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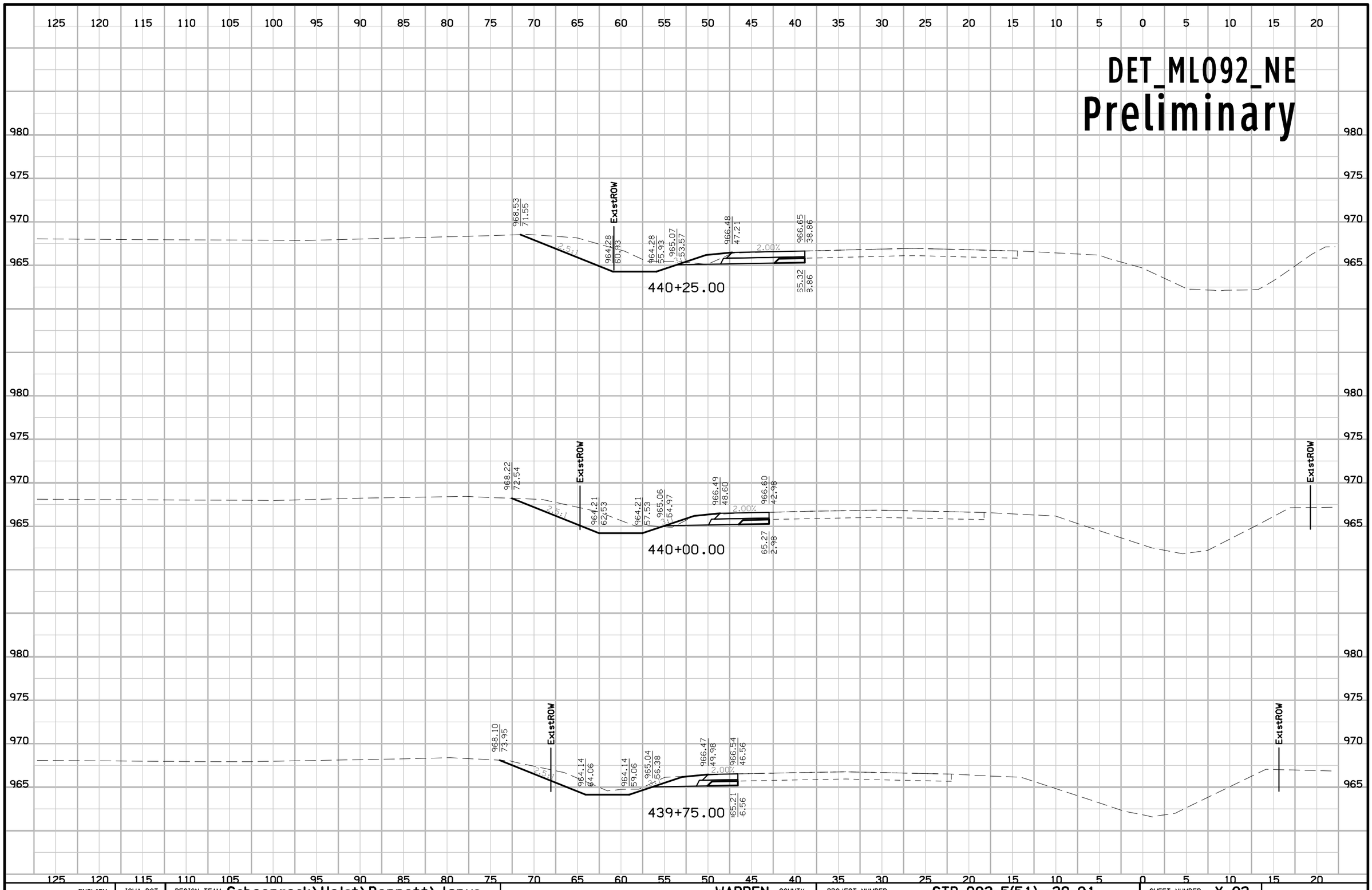
DET_ML092_NE

Preliminary



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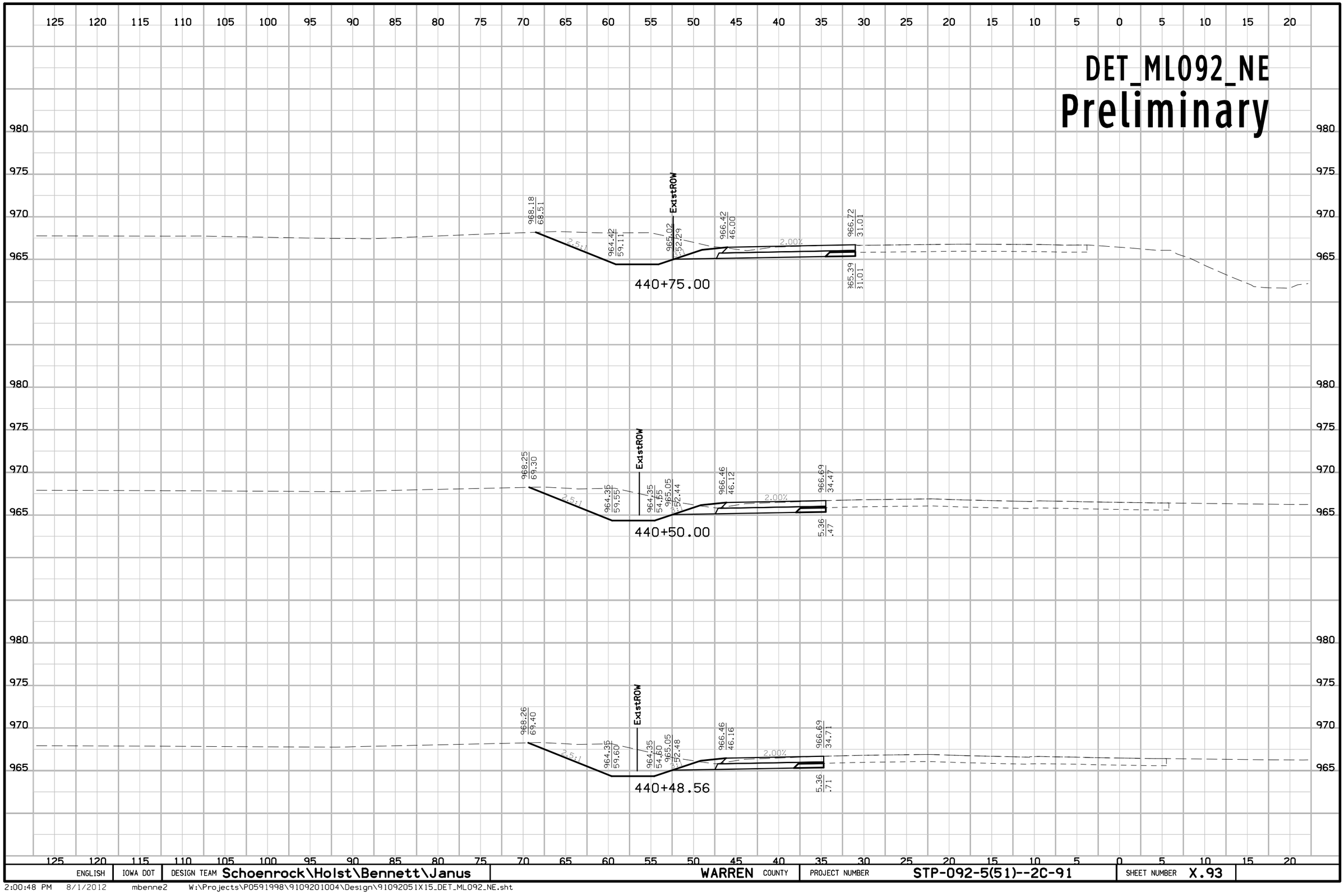
DET_ML092_NE

Preliminary



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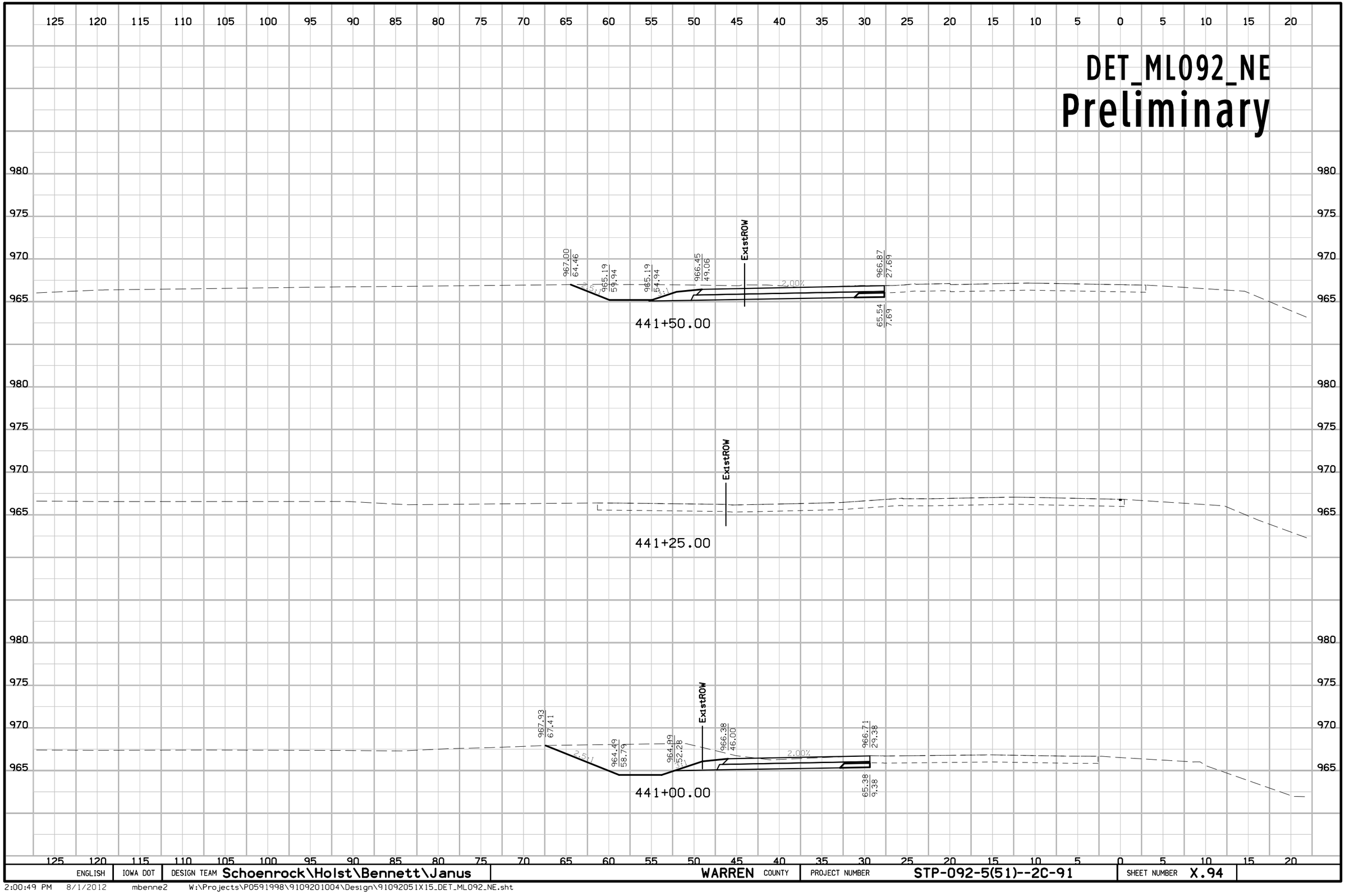
DET_ML092_NE

Preliminary



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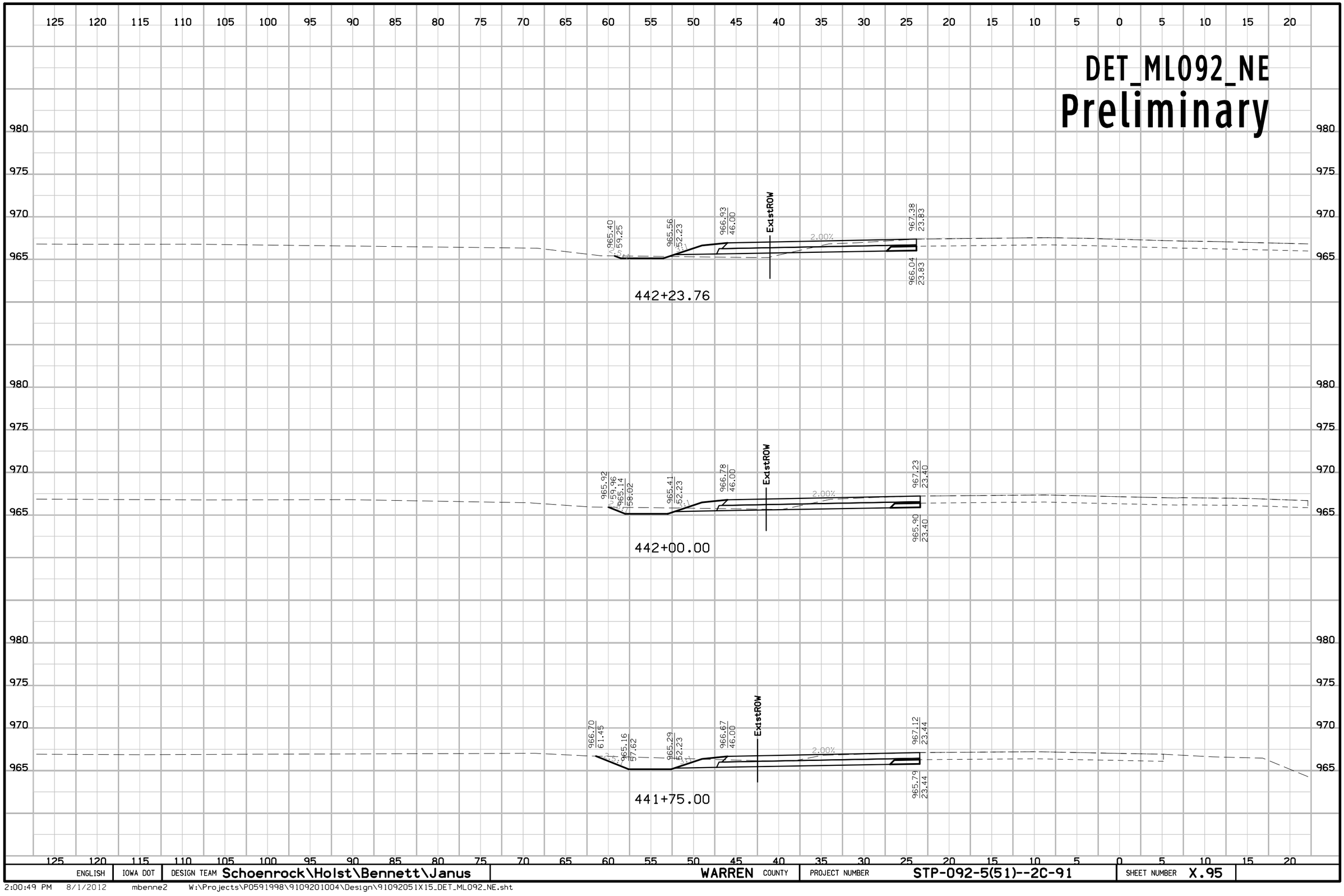
DET_ML092_NE

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.95

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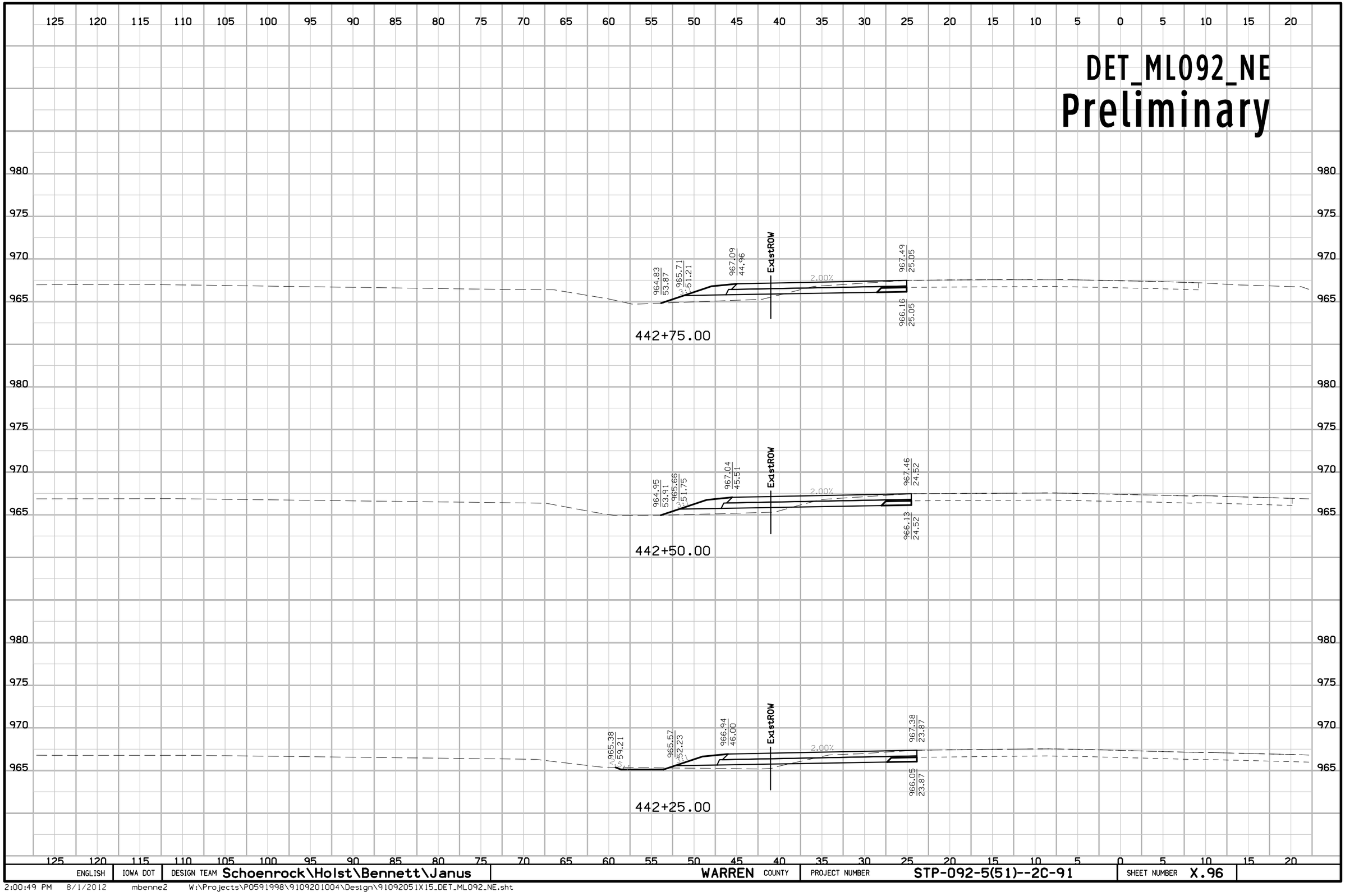
DET_ML092_NE

Preliminary



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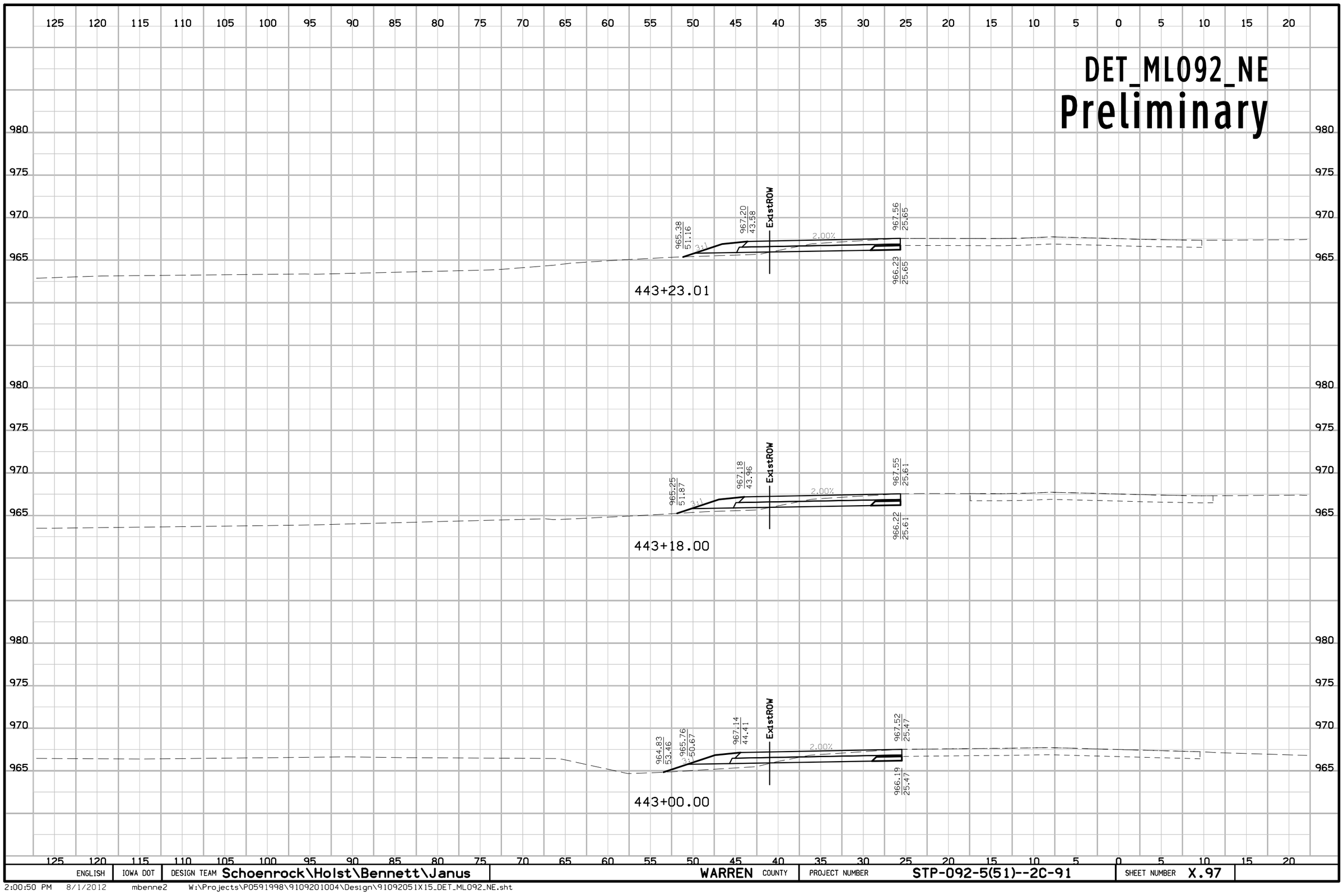
DET_ML092_NE

Preliminary



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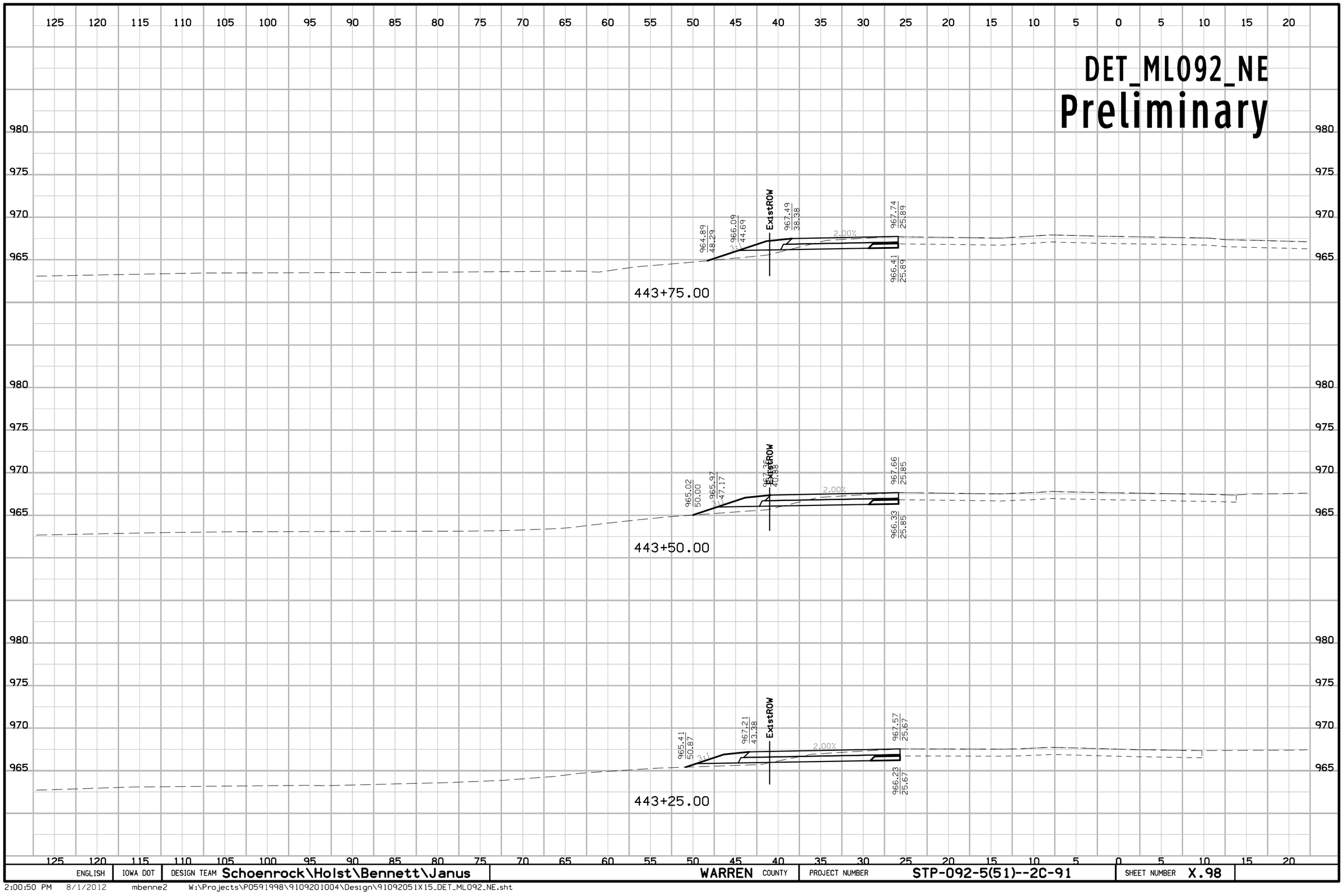
DET_ML092_NE

Preliminary



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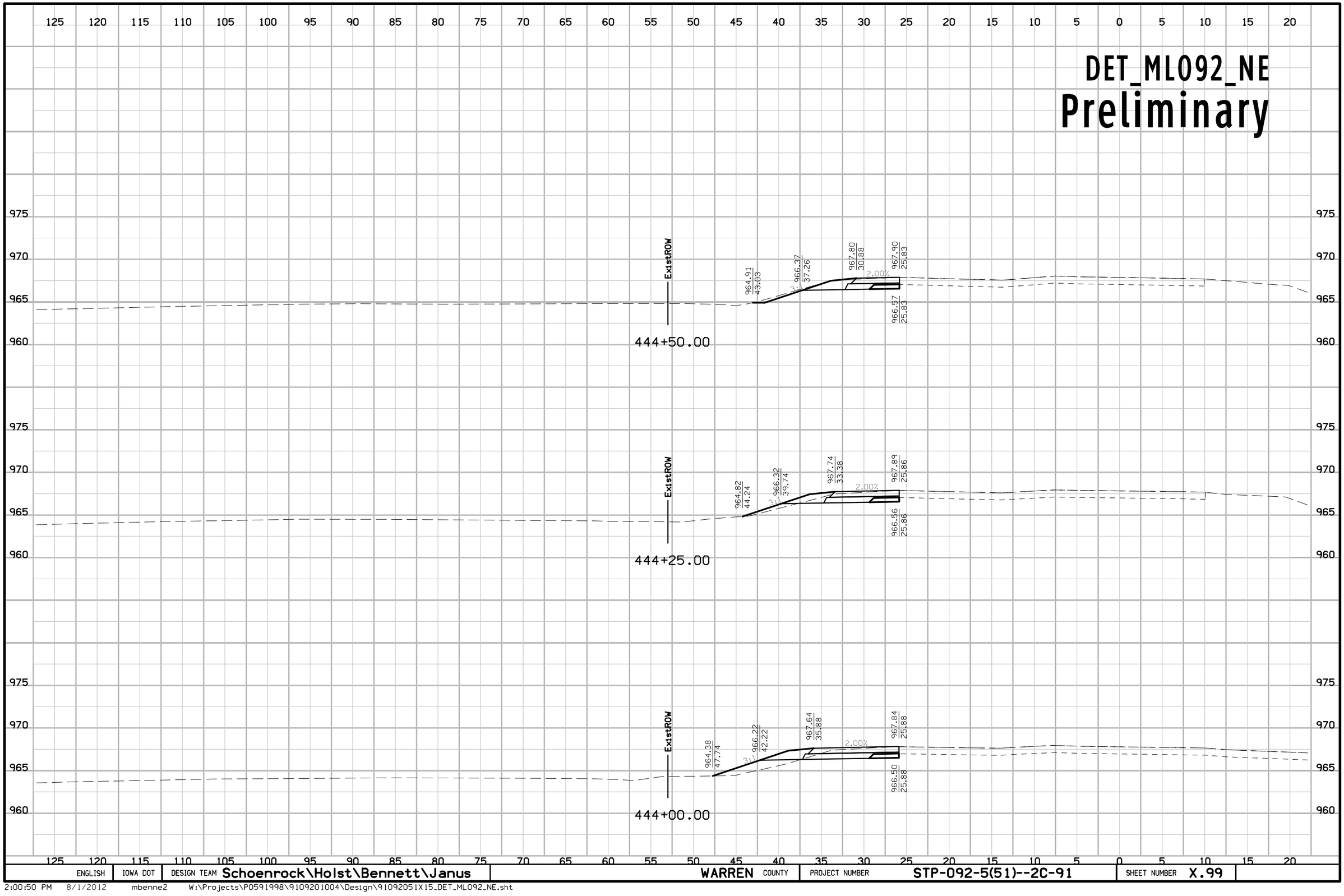
DET_ML092_NE

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.99

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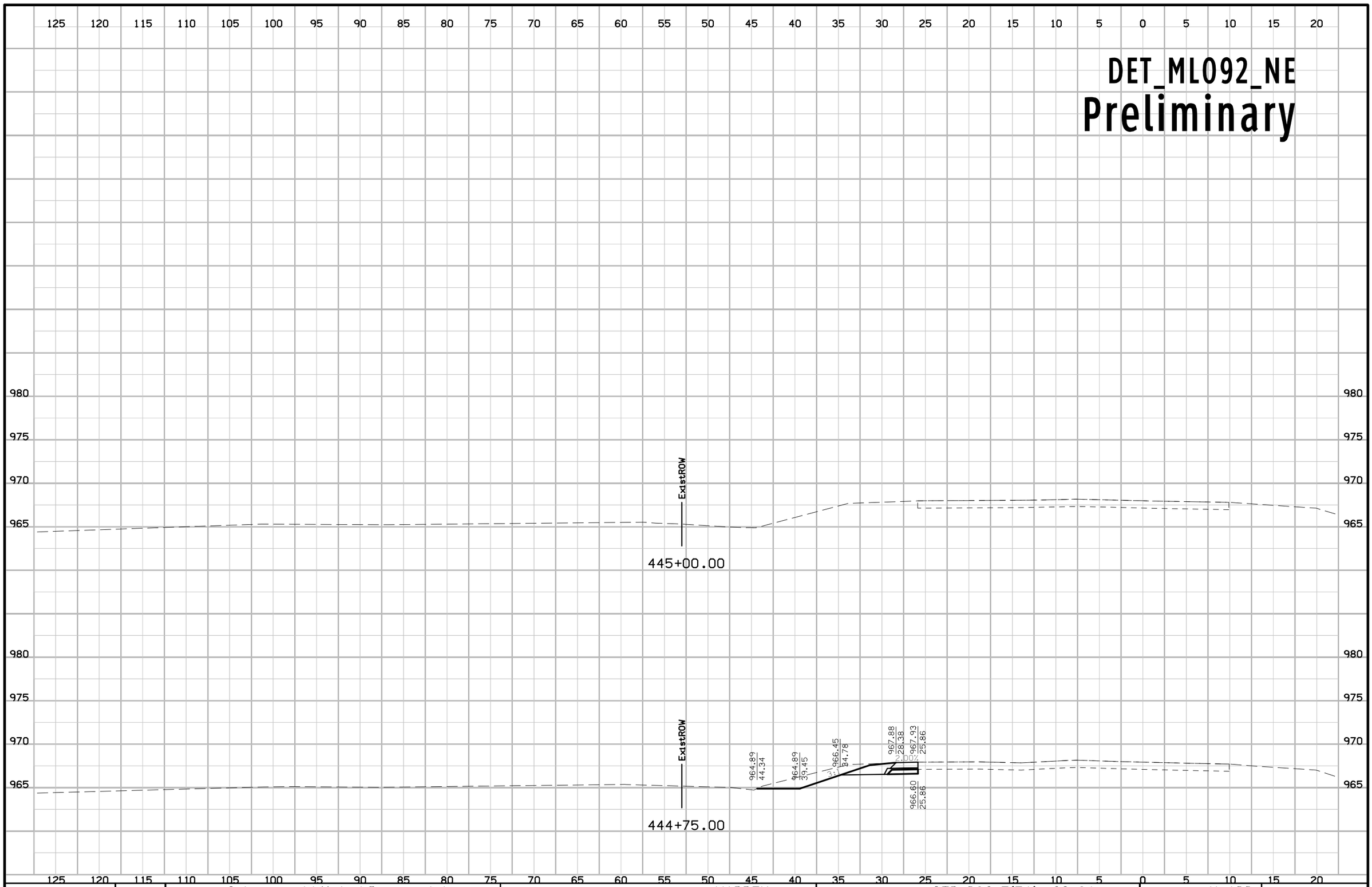
DET_ML092_NE

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.100

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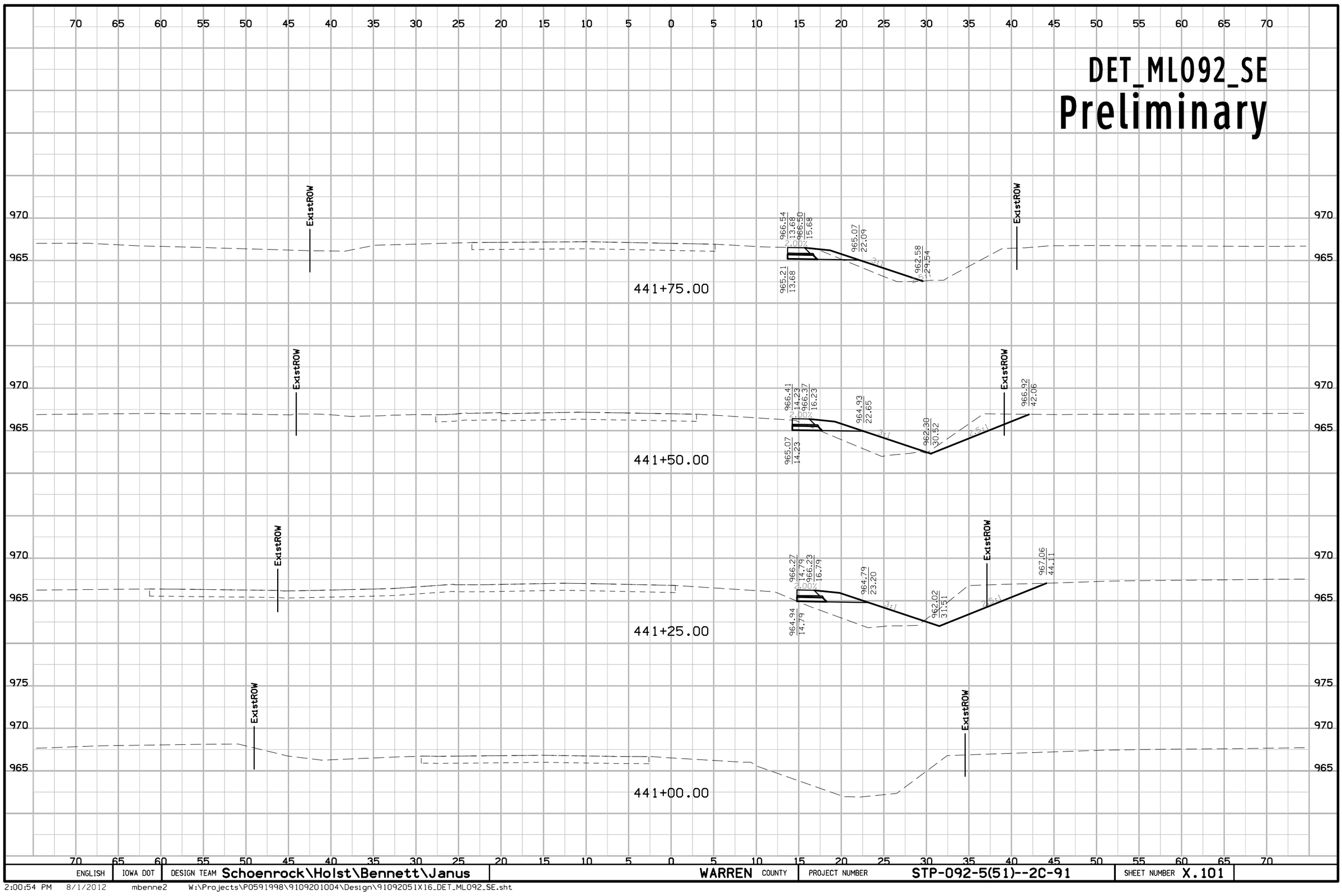
DET_ML092_SE

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.101

2:00:54 PM 8/1/2012 mbenne2 W:\Projects\P0591998\9109201004\Design\91092051X16_DET_ML092_SE.sht

DET_ML092_SE

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

970
965

ExistROW

967.17
12.01
2.00%
967.09
16.00
965.66
22.39
3:1
962.78
31.03
2.5:1
966.36
39.96
ExistROW

965.84
12.01

442+50.00

970
965

ExistROW

967.06
12.54
2.00%
966.99
15.98
965.56
22.38
3:1
962.73
30.96
2.5:1
966.19
39.52
ExistROW

965.73
12.54

442+25.00

970
965

ExistROW

967.05
12.58
2.00%
966.99
15.97
965.55
22.37
3:1
962.73
30.94
2.5:1
966.18
39.47
ExistROW

965.72
12.58

442+23.76

970
965

ExistROW

966.98
13.14
2.00%
966.93
15.70
965.50
22.10
3:1
962.68
30.55
2.5:1
966.11
39.13
ExistROW

965.65
13.14

442+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

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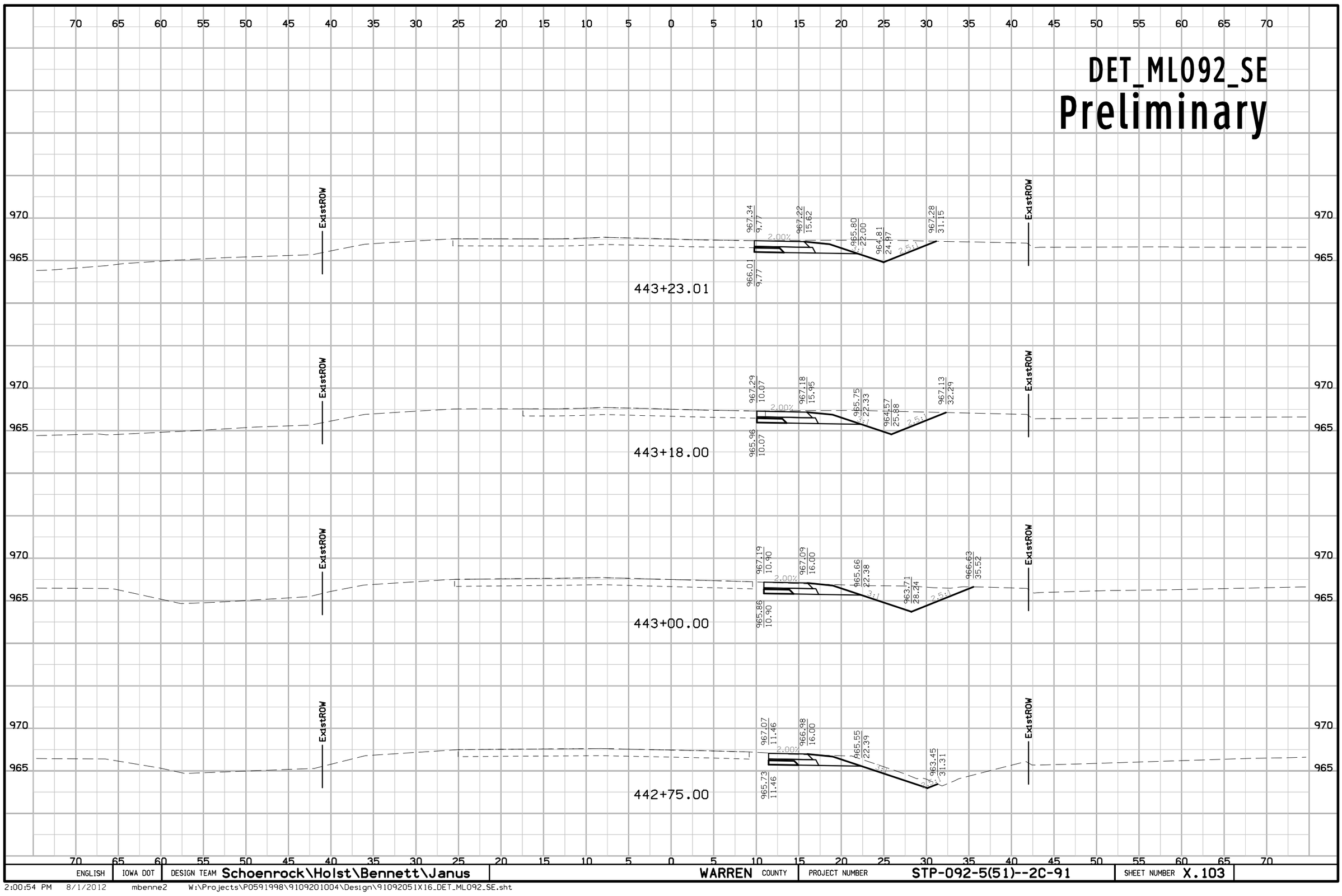
DET_ML092_SE

Preliminary



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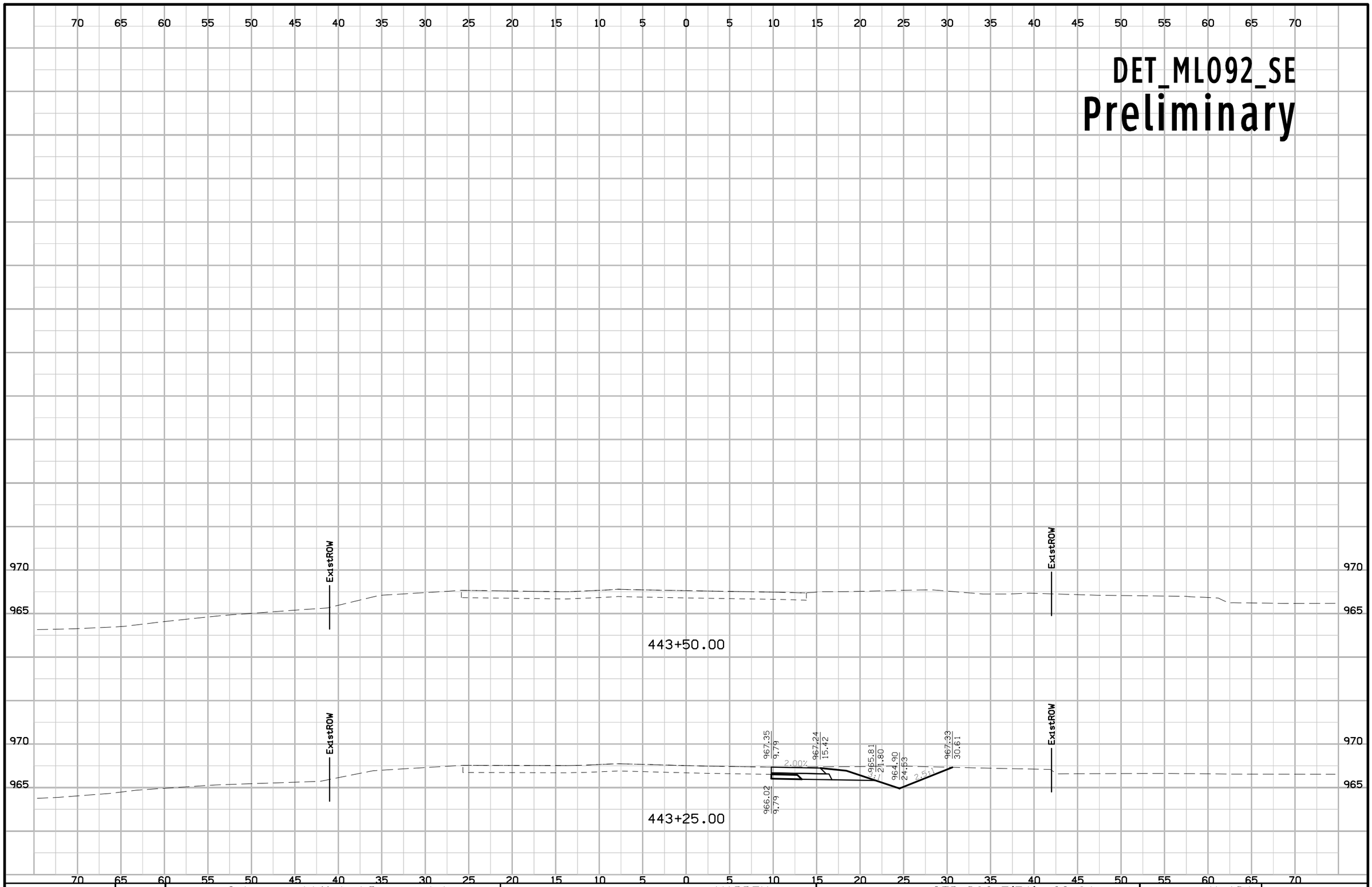

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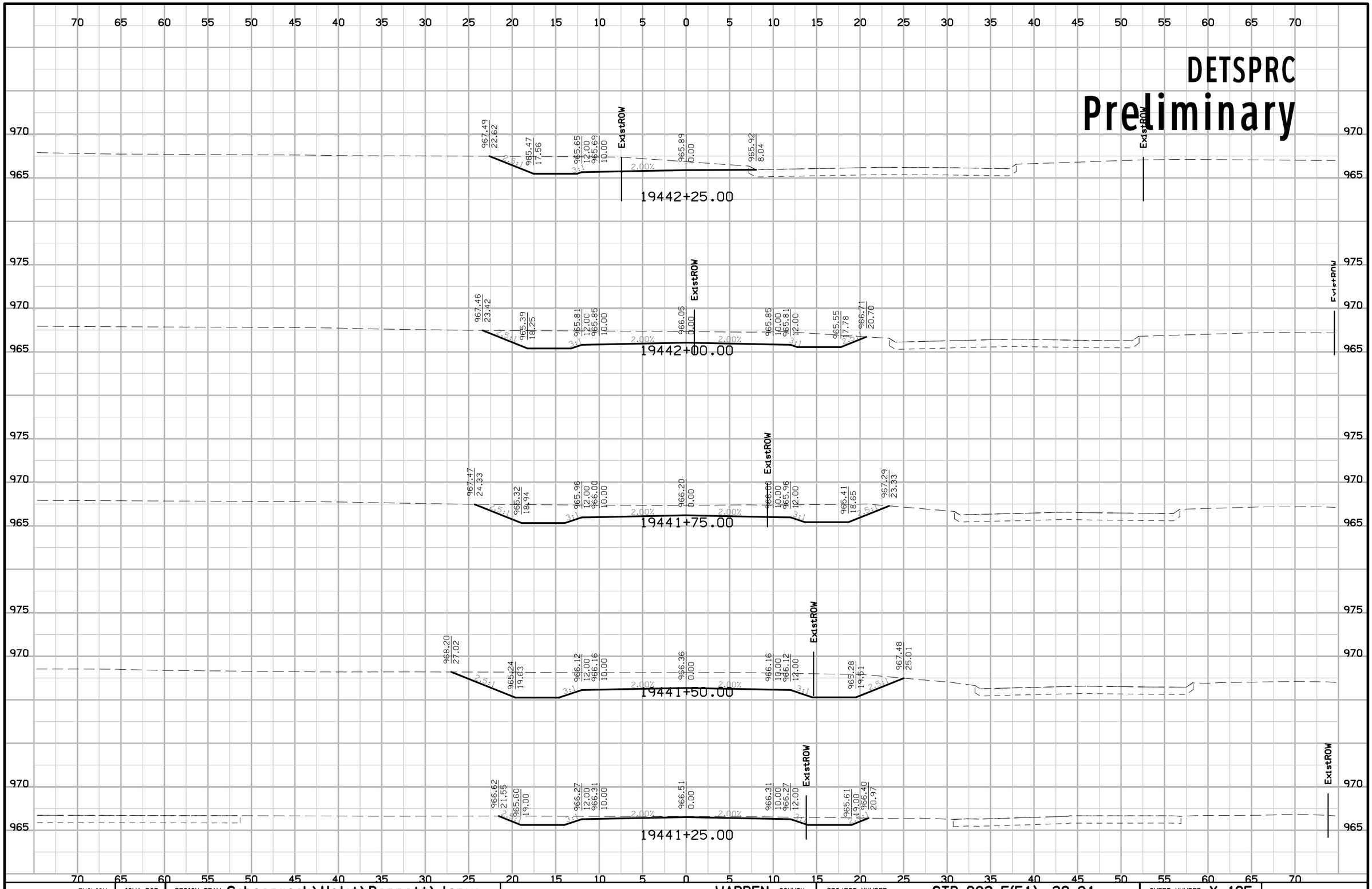
DETSPRC

Preliminary



ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Holst\Bennett\Janus	WARREN COUNTY	PROJECT NUMBER STP-092-5(51)--2C-91	SHEET NUMBER X.105