

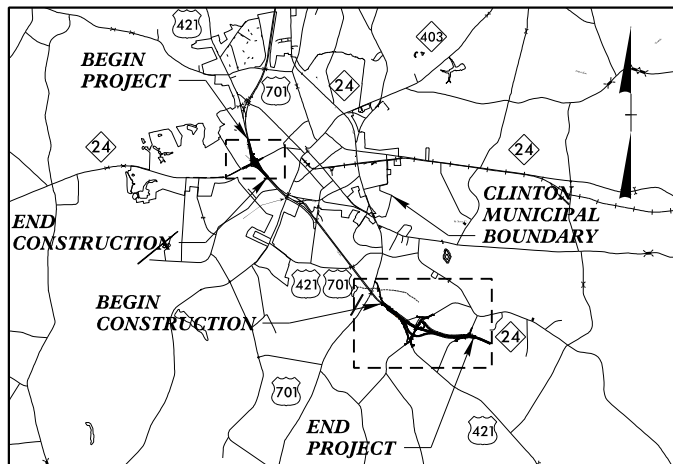
08/08/99

8/27/2019
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T.HuFman

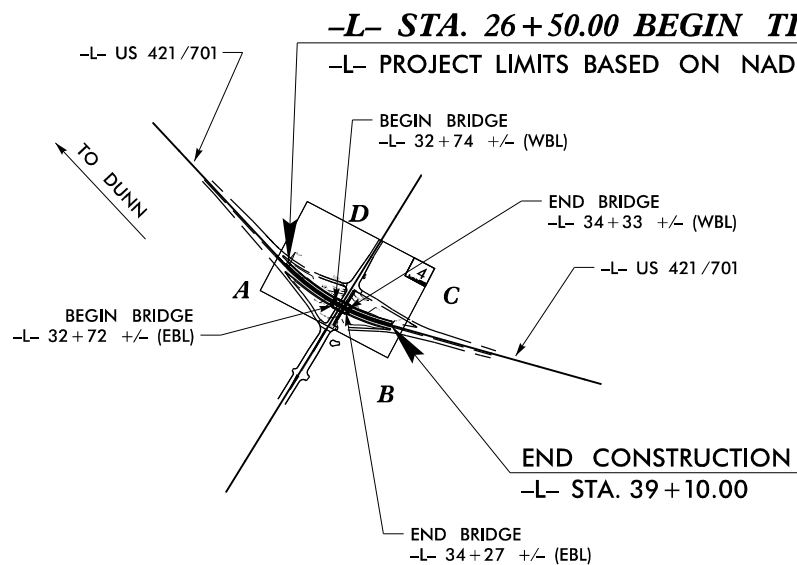
TIP PROJECT: R-2303E

CONTRACT:

See Sheet 1A For Index of Sheets
See Sheet 1B for Conventional Symbols



VICINITY MAP
(NOT TO SCALE)



PART 1 OF 2

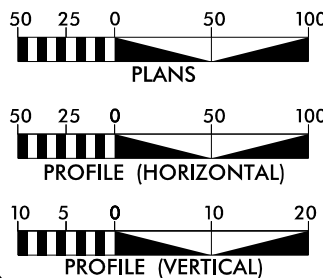
NCDOT CONTACT: BRIAN HARDING, P.E.
DIVISION DESIGN CONSTRUCT (DDC) - NCDOT DIVISION 3

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF CLINTON.

THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO THE INTERCHANGES.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY MODIFIED METHOD III

GRAPHIC SCALES



DESIGN DATA

ADT 2019 = 11,880
ADT 2030 = 15,090
K = 9 %
D = 60 %
T = 14 % *
V = 60 MPH
* TTST 8% DUAL 6%
FUNC CLASS =
RURAL ARTERIAL
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2303E = 1.830 mi.
LENGTH OF STRUCTURES TIP PROJECT R-2303E = 0.030 mi.
LENGTH OF STATE PROJECT R-2303E = 1.800 mi.

NOTES :

1. LENGTHS INCLUDE -L- AND -L1-
2. LENGTH BASED ON WBL BRIDGES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

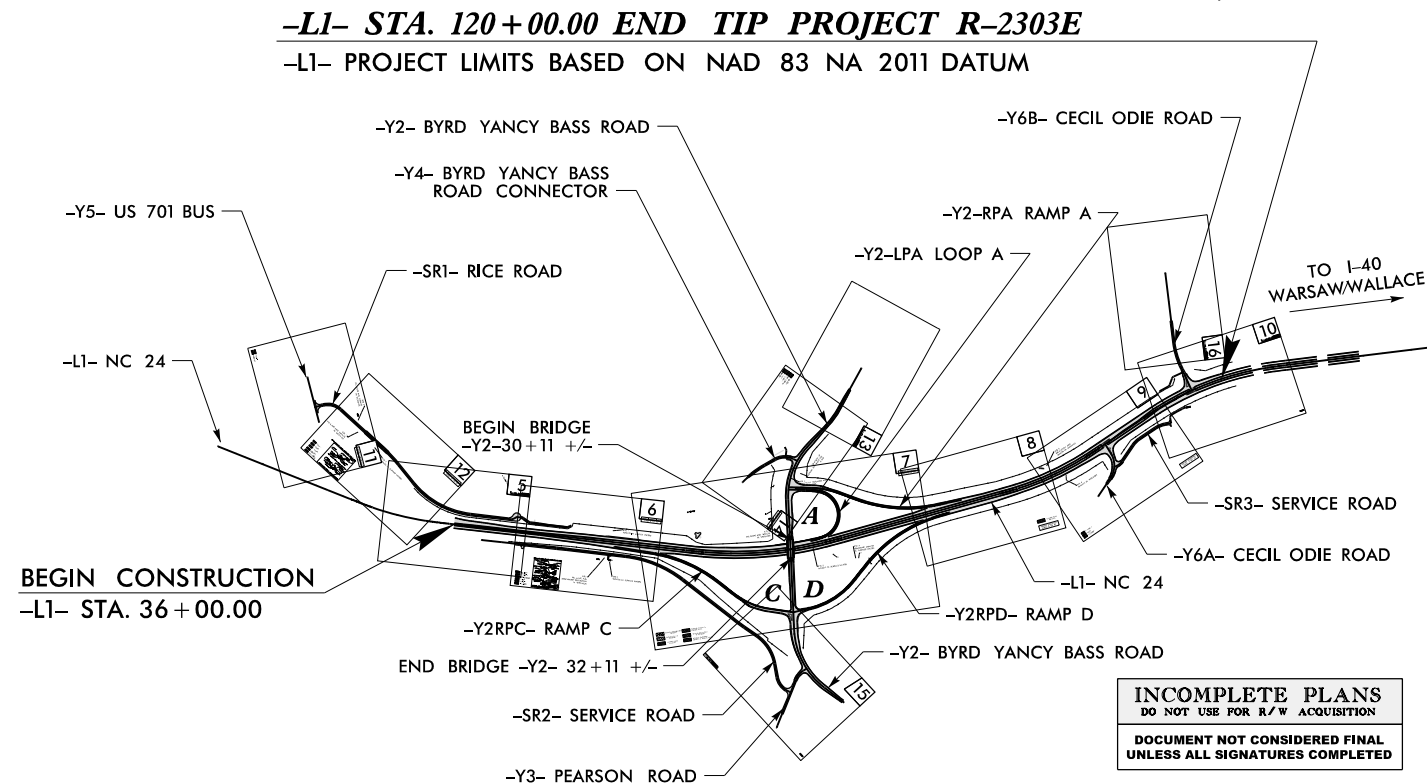
SAMPSON COUNTY

LOCATION: NC 24 AT SR 1296 (SUNSET AVE) AND
NC 24 FROM US 701 (SOUTHEAST BLVD.) TO
EAST OF SR 1935 (CECIL-ODIE RD)

TYPE OF WORK: PAVING, GRADING, STRUCTURES, DRAINAGE, SIGNALS,
PAVEMENT MARKINGS AND SIGNING

WETLAND AND SURFACE WATER IMPACTS PERMIT

PART 2 OF 2



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Prepared for NCDOT in the Office of:
moFFatt & nichol
4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919) 781-4626 VOICE (919) 781-4869 FAX (F-0105)

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 24, 2018

LETTING DATE:
DECEMBER 17, 2019

TIM R. REID, P.E.
PROJECT ENGINEER

TRENT E. HUFFMAN, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

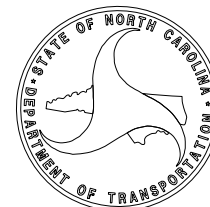
moFFatt & nichol

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

moFFatt & nichol

SIGNATURE: P.E.



8/17/99

8/27/2018
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Thurman

REVISIONS

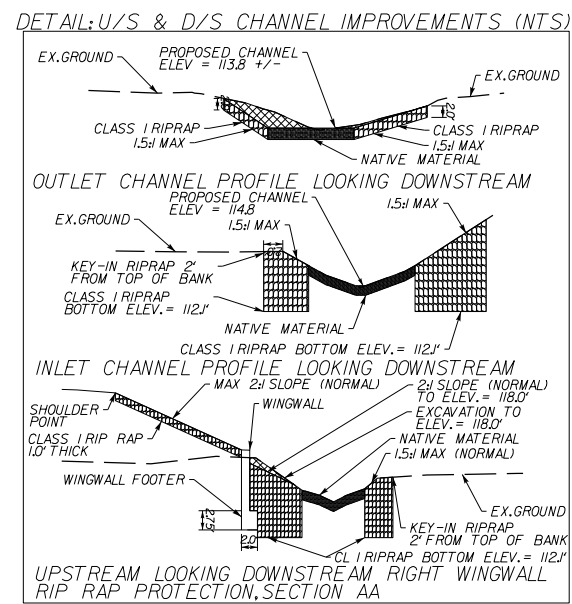
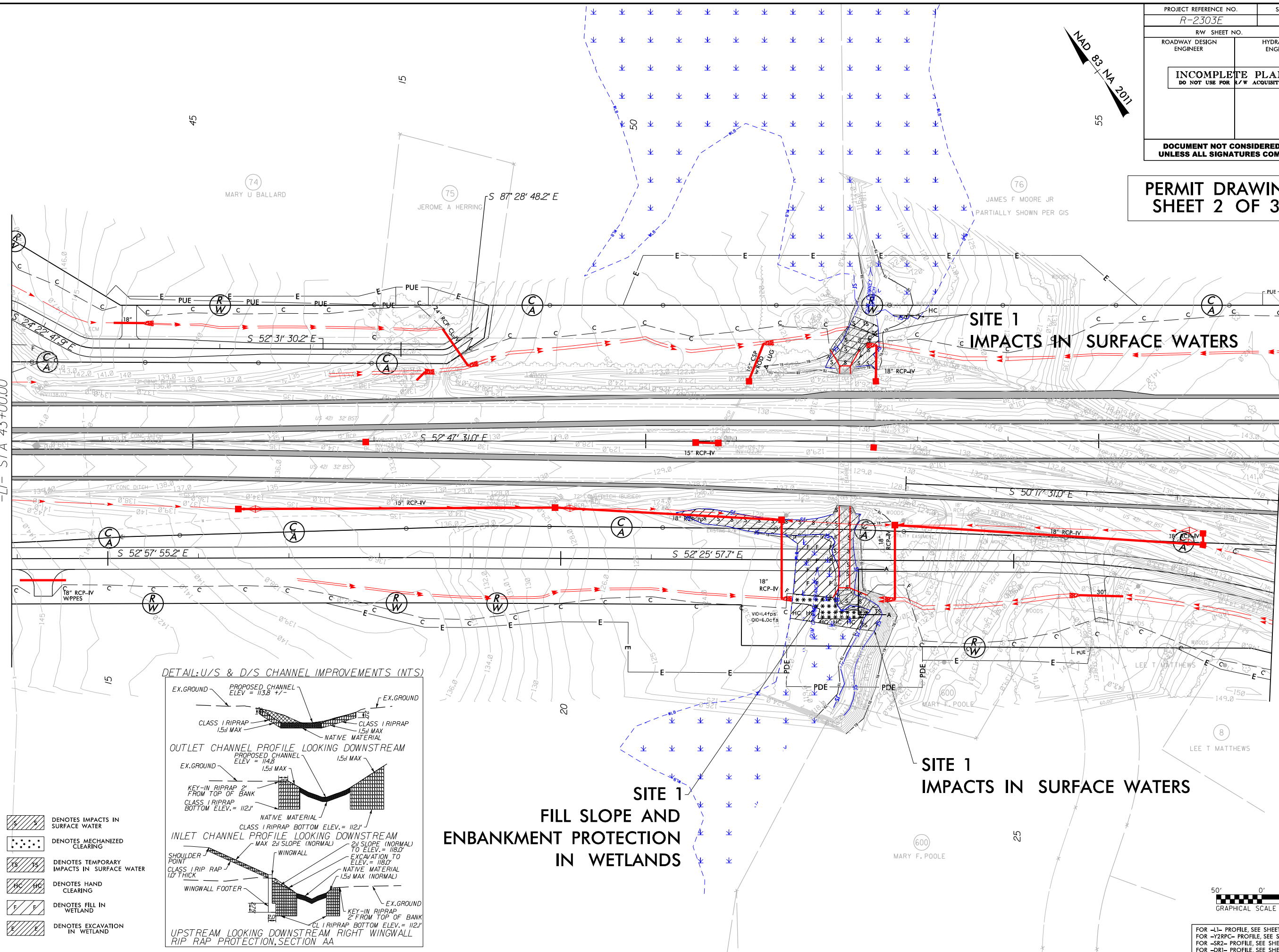
MATCHLINE SHEET 5
-LI- STA 43+00.00

MATCHLINE SHEET 7
-LI- STA 57+00.00

PROJECT REFERENCE NO. <i>R-2303E</i>		SHEET NO. <i>6</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PERMIT DRAWING
SHEET 2 OF 37

NAD 83 NA 2011



SITE 1
FILL SLOPE AND
ENBANKMENT PROTECTION
IN WETLANDS

SITE 1
IMPACTS IN SURFACE WATERS

- Denotes Impacts in Surface Water
- Denotes Mechanized Clearing
- Denotes Temporary Impacts in Surface Water
- Denotes Hand Clearing
- Denotes Fill in Wetland
- Denotes Excavation in Wetland



FOR -LI- PROFILE, SEE SHEET NO. 18
FOR -Y2RCP- PROFILE, SEE SHEET NO. 25
FOR -SR2- PROFILE, SEE SHEET NO. 30
FOR -DRI- PROFILE, SEE SHEET NO. 32

8/17/99

8/27/2018
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Thurman

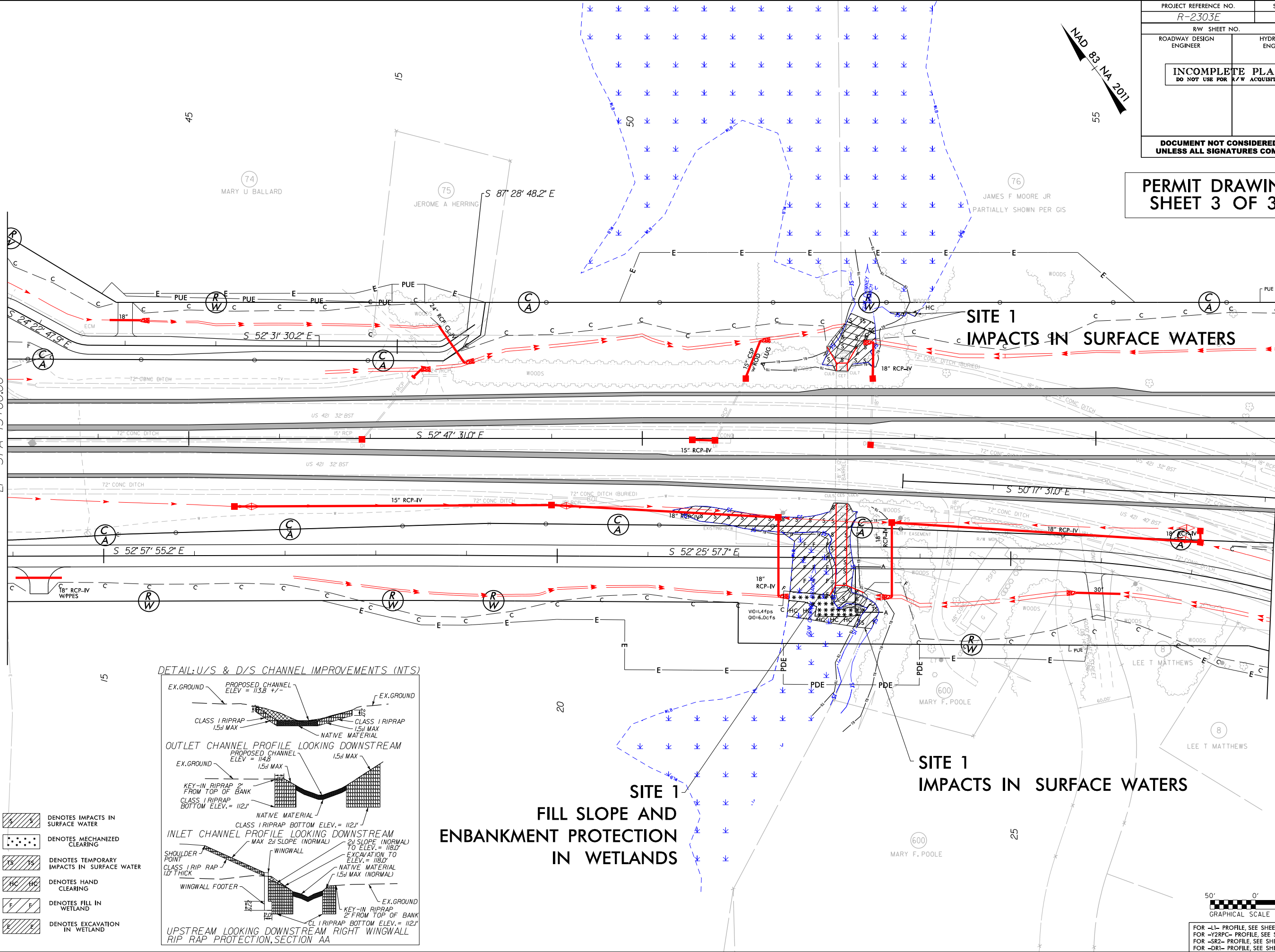
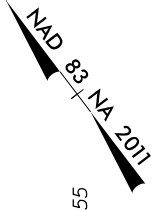
REVISIONS

MATCHLINE SHEET 5
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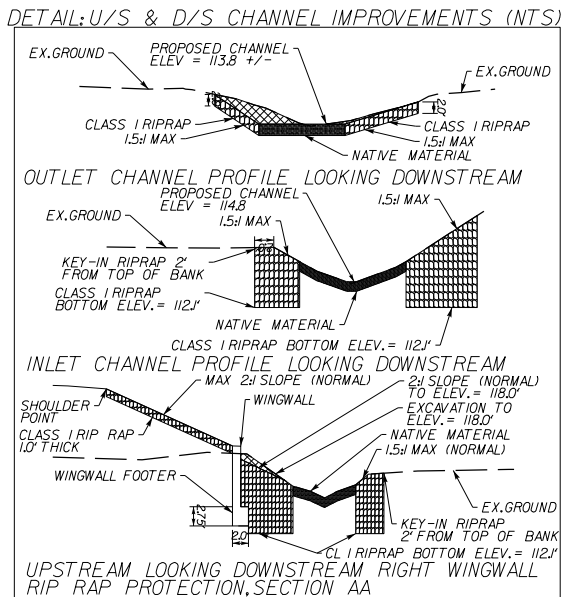
MATCHLINE SHEET 7
-LI- STA 57+00.00

PROJECT REFERENCE NO.		SHEET NO.	
R-2303E		6	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PERMIT DRAWING
SHEET 3 OF 37



- DENOTES IMPACTS IN SURFACE WATER
- DENOTES MECHANIZED CLEARING
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES HAND CLEARING
- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND



SITE 1
FILL SLOPE AND
ENBANKMENT PROTECTION
IN WETLANDS

SITE 1
IMPACTS IN SURFACE WATERS

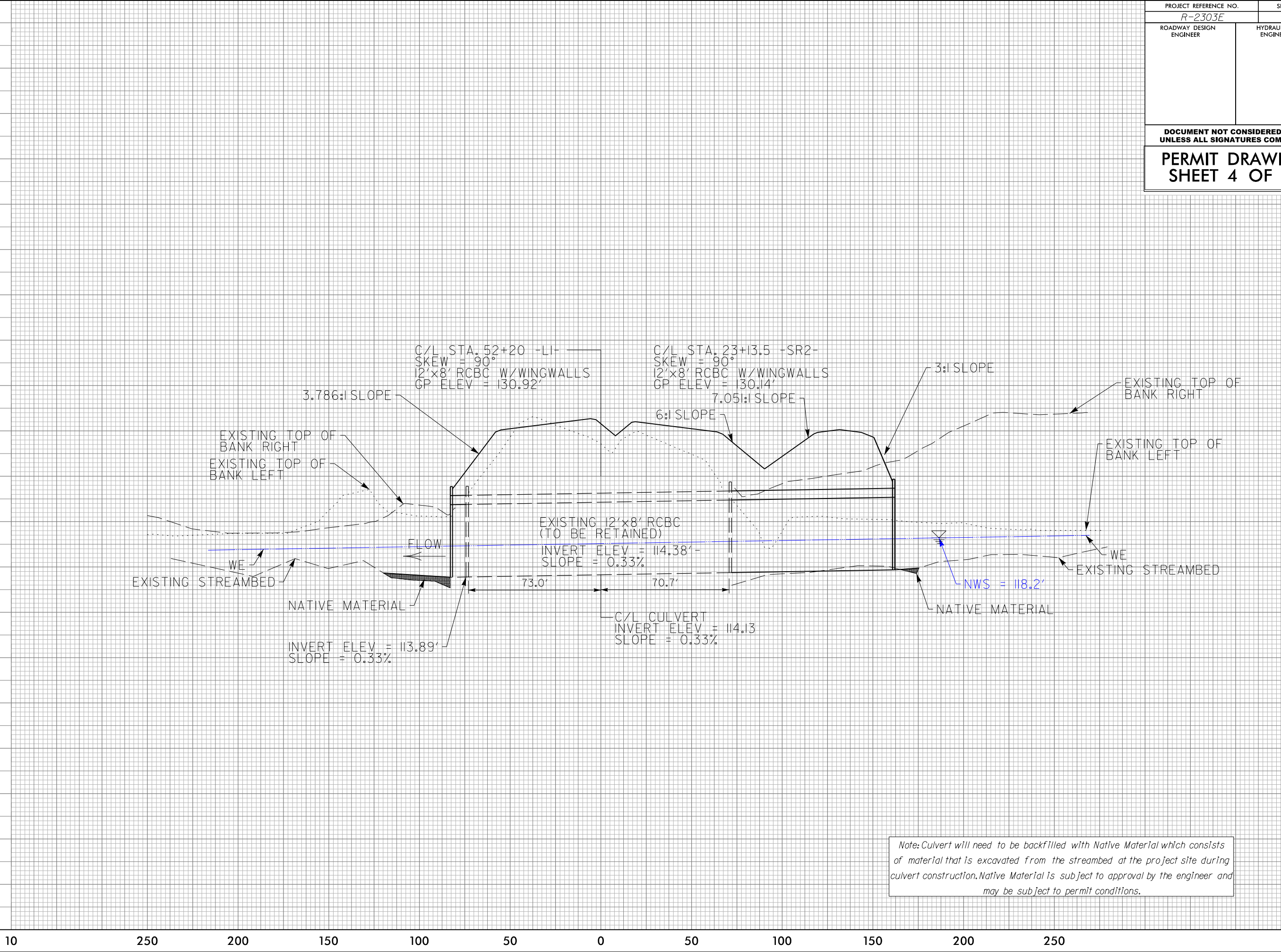


FOR -L1- PROFILE, SEE SHEET NO. 18
FOR -Y2R2C- PROFILE, SEE SHEET NO. 25
FOR -SR2- PROFILE, SEE SHEET NO. 30
FOR -DR1- PROFILE, SEE SHEET NO. 32

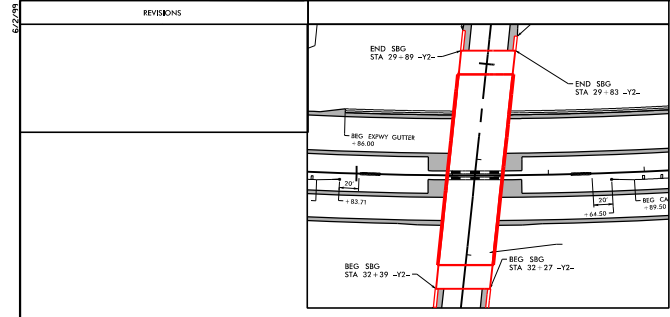
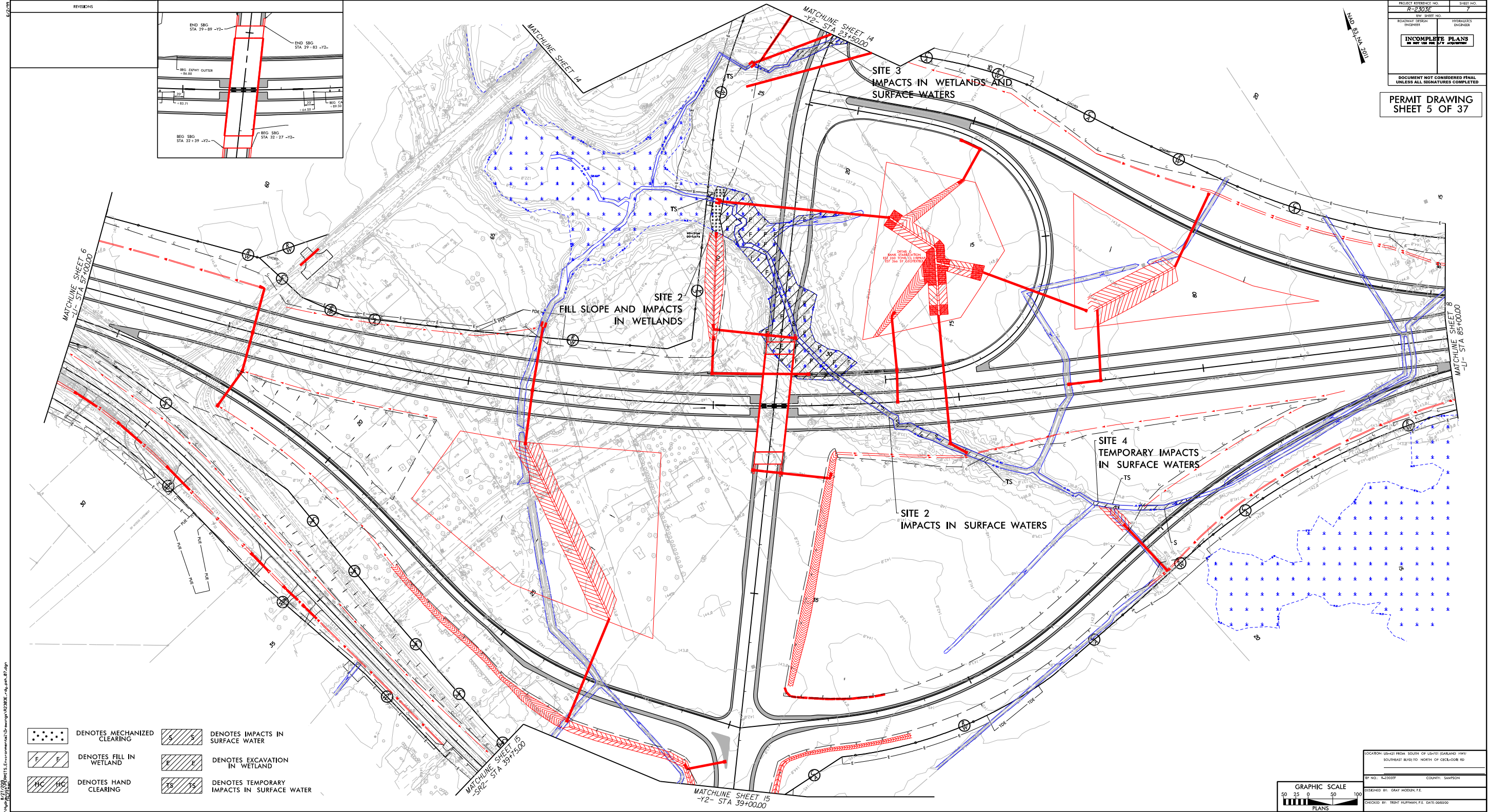
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Thurman

PROJECT REFERENCE NO. <i>R-2303E</i>		SHEET NO. <i>7</i>
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
PERMIT DRAWING SHEET 4 OF 37		

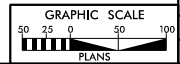


Note: Culvert will need to be backfilled with Native Material which consists of material that is excavated from the streambed at the project site during culvert construction. Native Material is subject to approval by the engineer and may be subject to permit conditions.



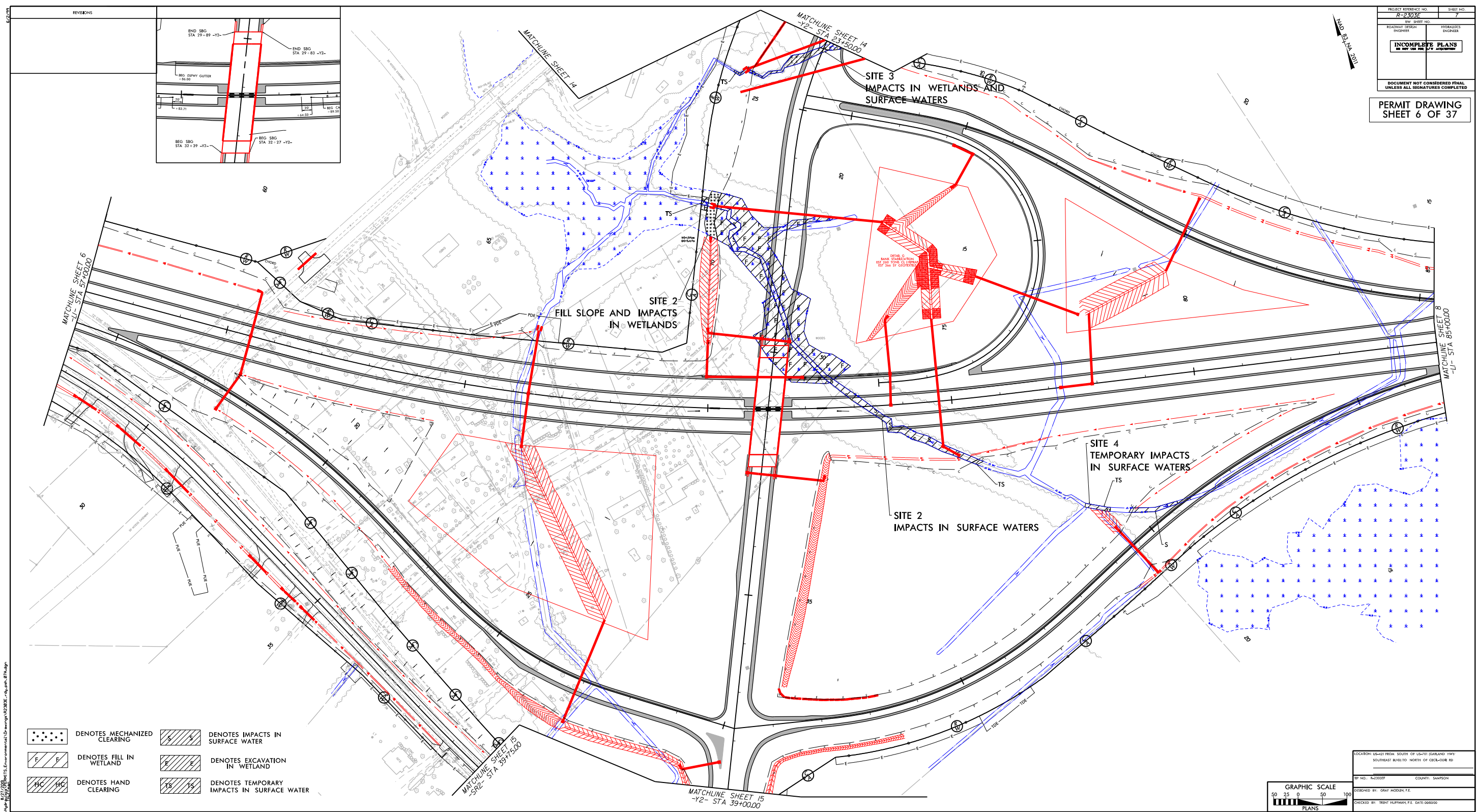
- | | | | |
|--|-----------------------------|--|--|
| | DENOTES MECHANIZED CLEARING | | DENOTES IMPACTS IN SURFACE WATER |
| | DENOTES FILL IN WETLAND | | DENOTES EXCAVATION IN WETLAND |
| | DENOTES HAND CLEARING | | DENOTES TEMPORARY IMPACTS IN SURFACE WATER |

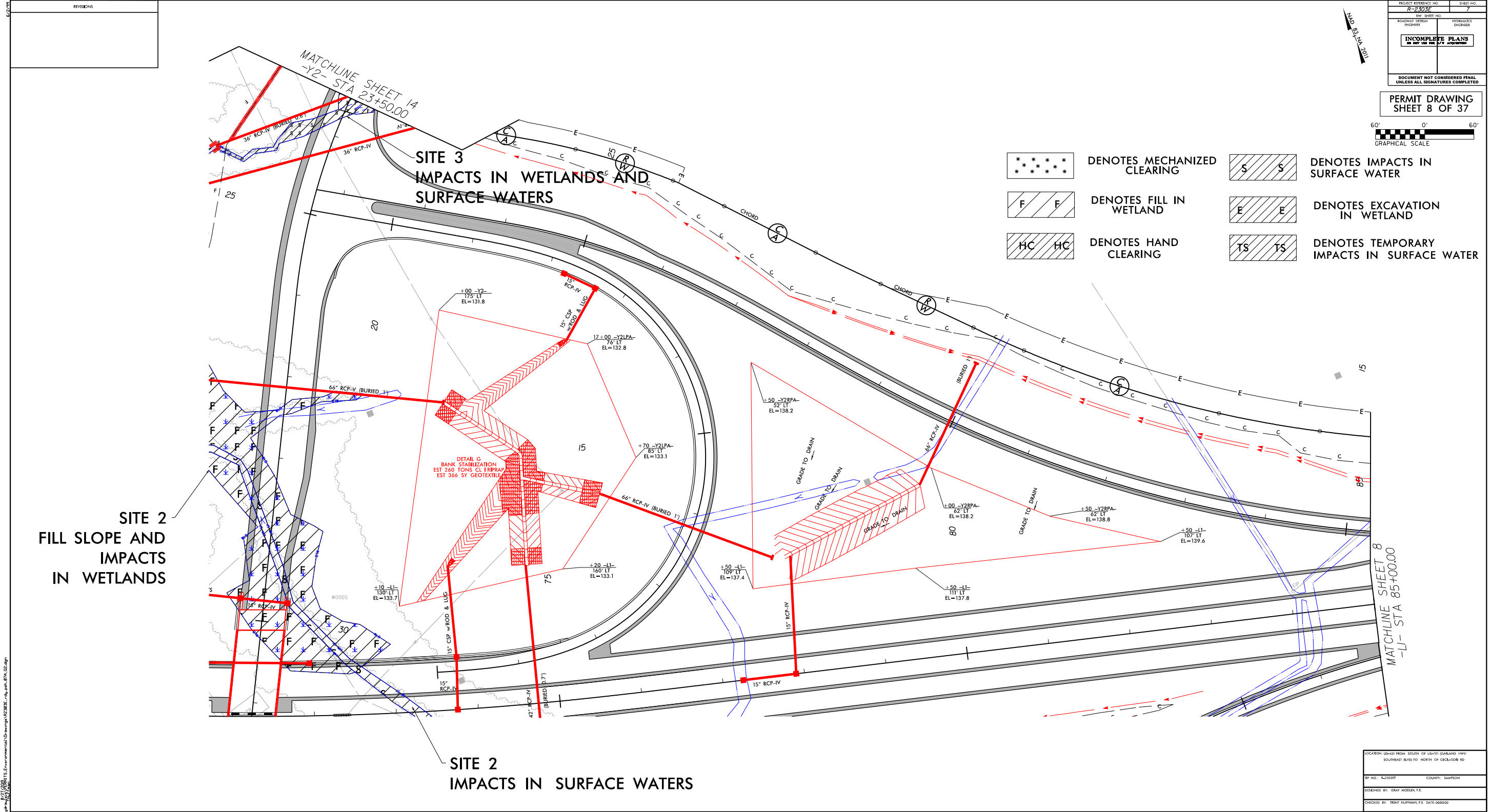
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RDW SHEET NO. INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION	HYDRAULICS BOOKLET
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
PERMIT DRAWING SHEET 5 OF 37	



LOCATION: US-52 FROM SOUTH OF US-70 (GARLAND HWY) SOUTHEAST RVD TO NORTH OF CECIL-ONE RD	
TP NO.: 6-2303F	COUNTY: SAMPSON
DESIGNED BY: GRAY MODIN, P.E.	
CHECKED BY: TRENT HUFMAN, P.E. DATE: 06/06/00	

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REVISIONS

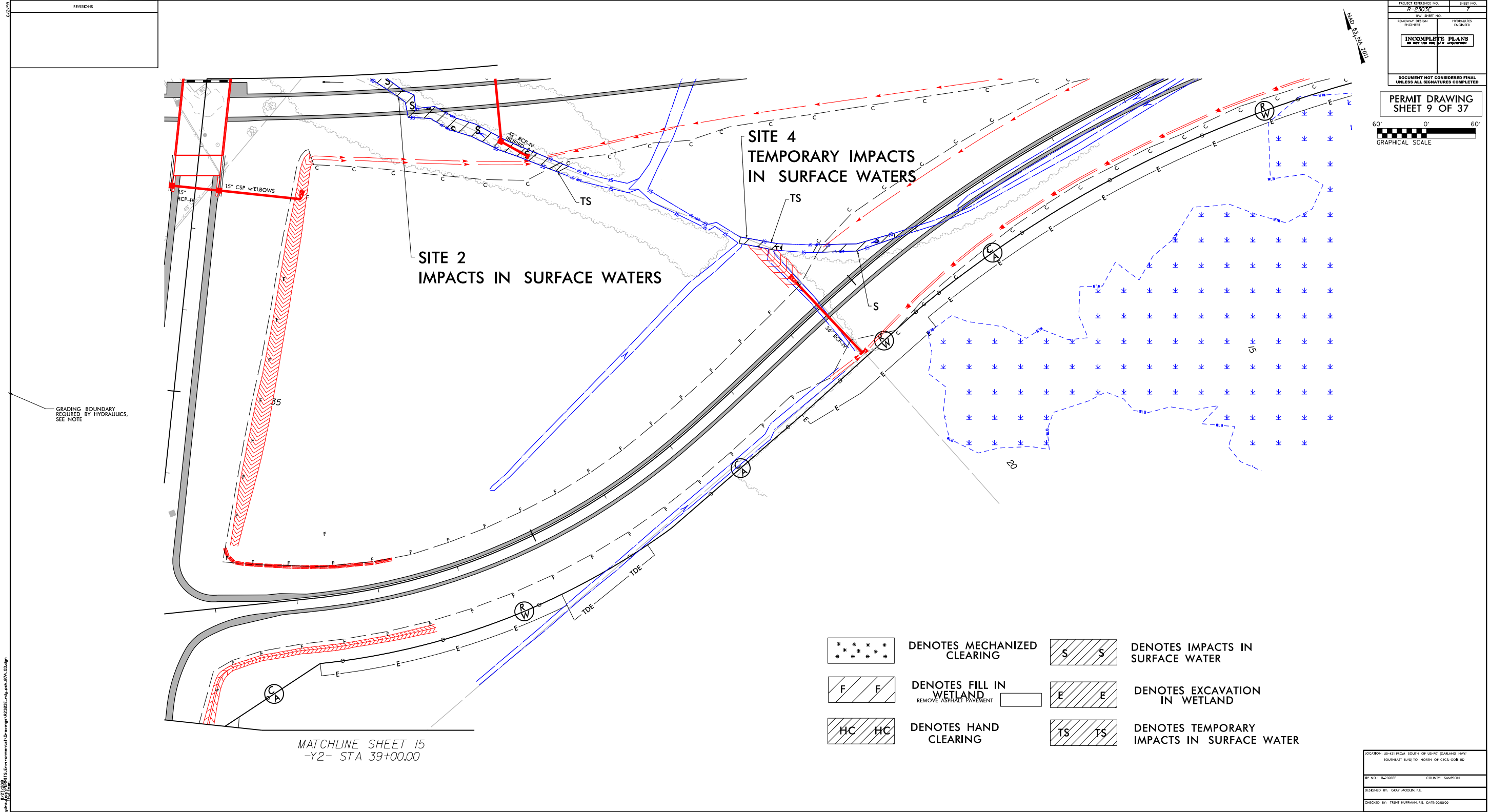
PROJECT REFERENCE NO.	SHEET NO.
R-2303F	7
RDWAY DESIGN	HYDRAULICS
INCHES	FOOT
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 8 OF 37

60' 0' 60'

GRAPHICAL SCALE

LOCATION: US-52 FROM SOUTH OF US-70 (GARLAND HWY) SOUTHEAST RVD TO NORTH OF CECIL-ODIE RD	
TP NO.: 6-2303F	COUNTY: SAMPSON
DESIGNED BY: GRAY MODIN, P.E.	
CHECKED BY: TRENT HUFMAN, P.E. DATE: 06/06/00	



REVISIONS

PROJECT REFERENCE NO.
R-2303F

SHEET NO.
7

ROADWAY DESIGN
INCHES

HYDRAULICS
INCHES

INCOMPLETE PLANS
DO NOT USE FOR CONSTRUCTION

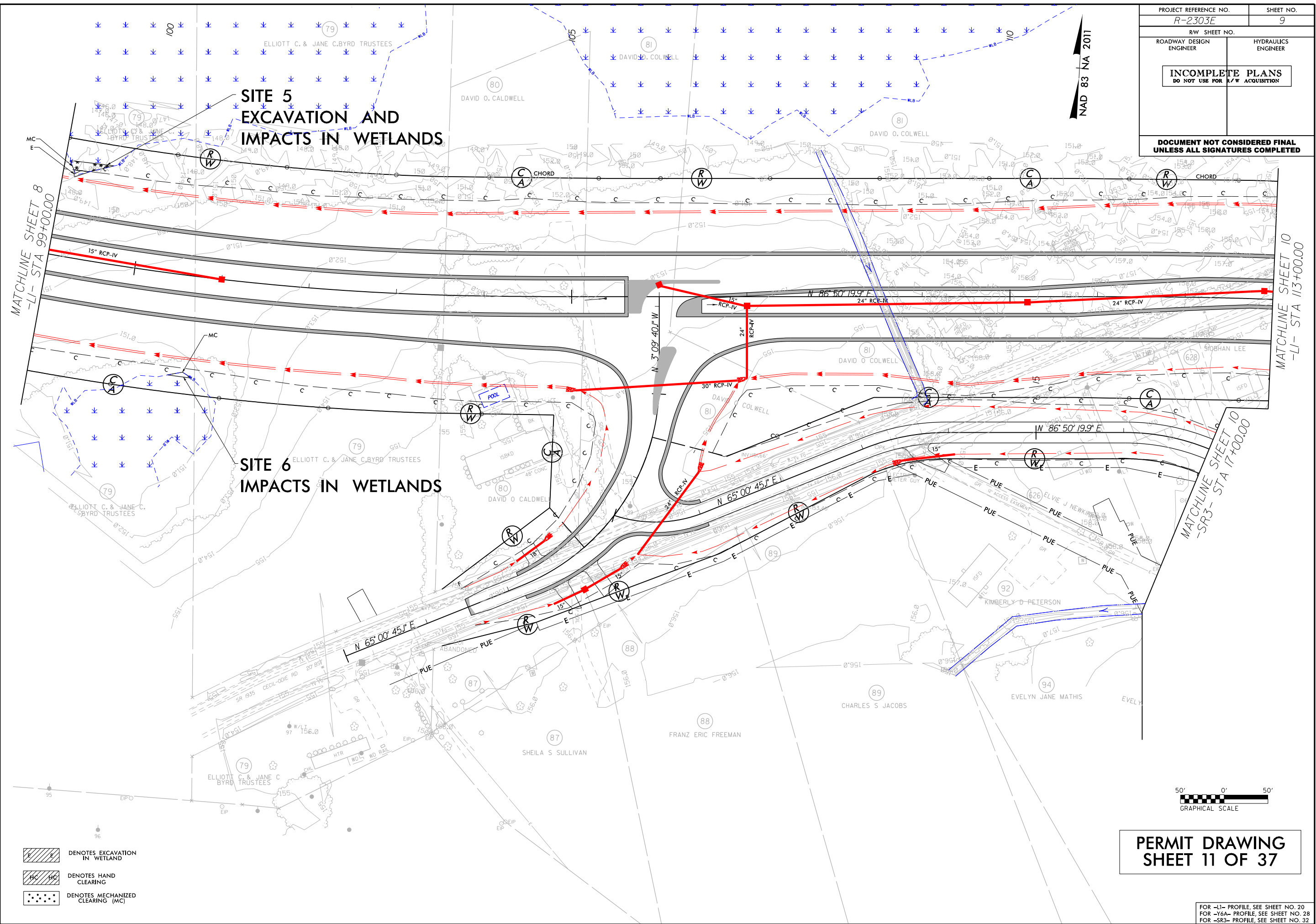
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 9 OF 37

60' 0' 60'

GRAPHICAL SCALE

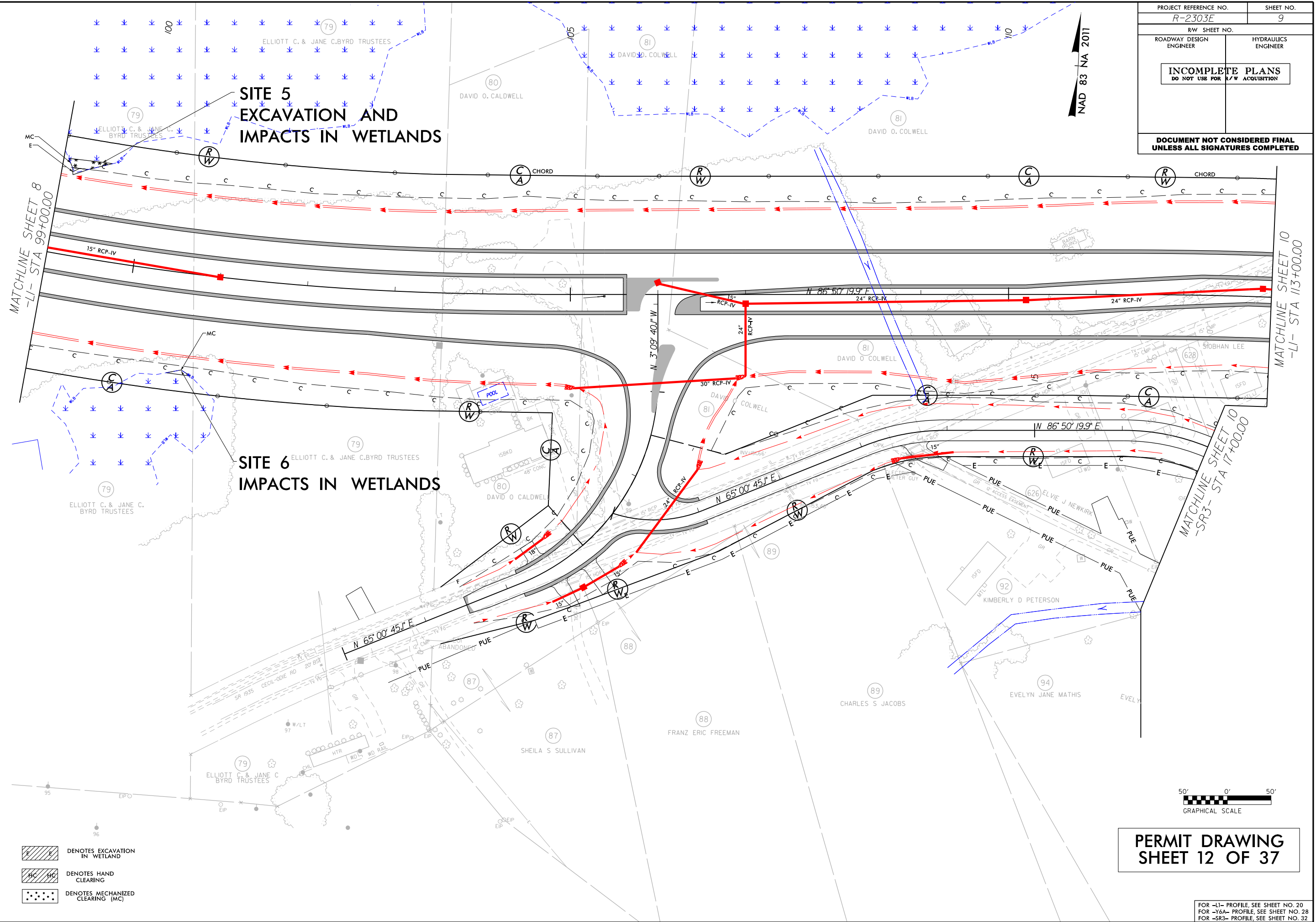
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8/17/99

8/27/2018
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REVISIONS



PROJECT REFERENCE NO.	SHEET NO.
R-2303E	9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

FOR -LI- PROFILE, SEE SHEET NO. 20
FOR -Y6A- PROFILE, SEE SHEET NO. 28
FOR -SR3- PROFILE, SEE SHEET NO. 32

8/17/99

8/27/2018
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Thurman

REVISIONS

SITE 7
FILL SLOPE AND IMPACTS
IN WETLANDS

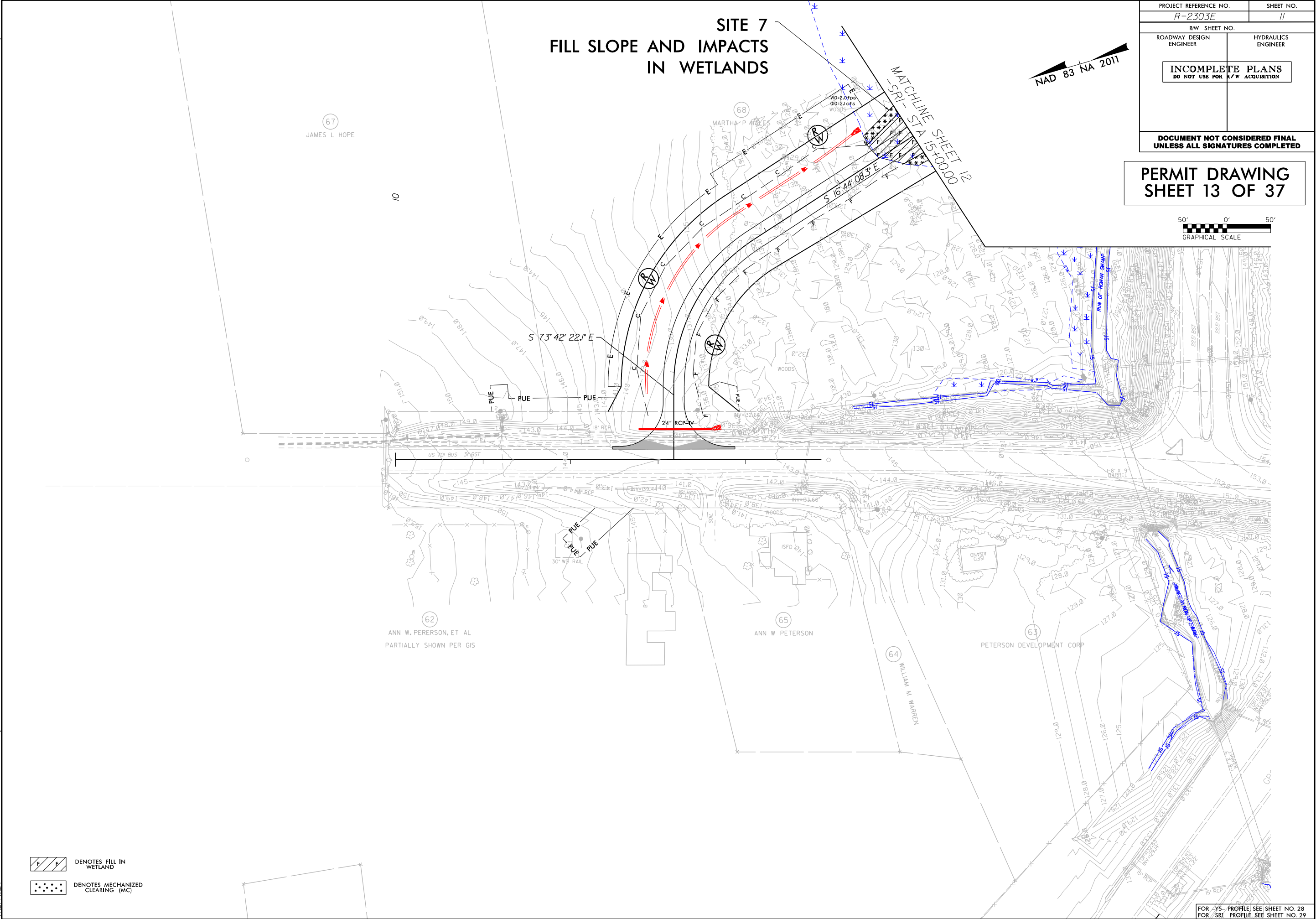
NAD 83 NA 2011

PROJECT REFERENCE NO.	SHEET NO.
R-2303E	11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 13 OF 37



- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING (MC)



FOR -YS- PROFILE, SEE SHEET NO. 28
FOR -SRI- PROFILE, SEE SHEET NO. 29

8/17/99

8/27/2018
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Thurman

REVISIONS

SITE 7
FILL SLOPE AND IMPACTS
IN WETLANDS

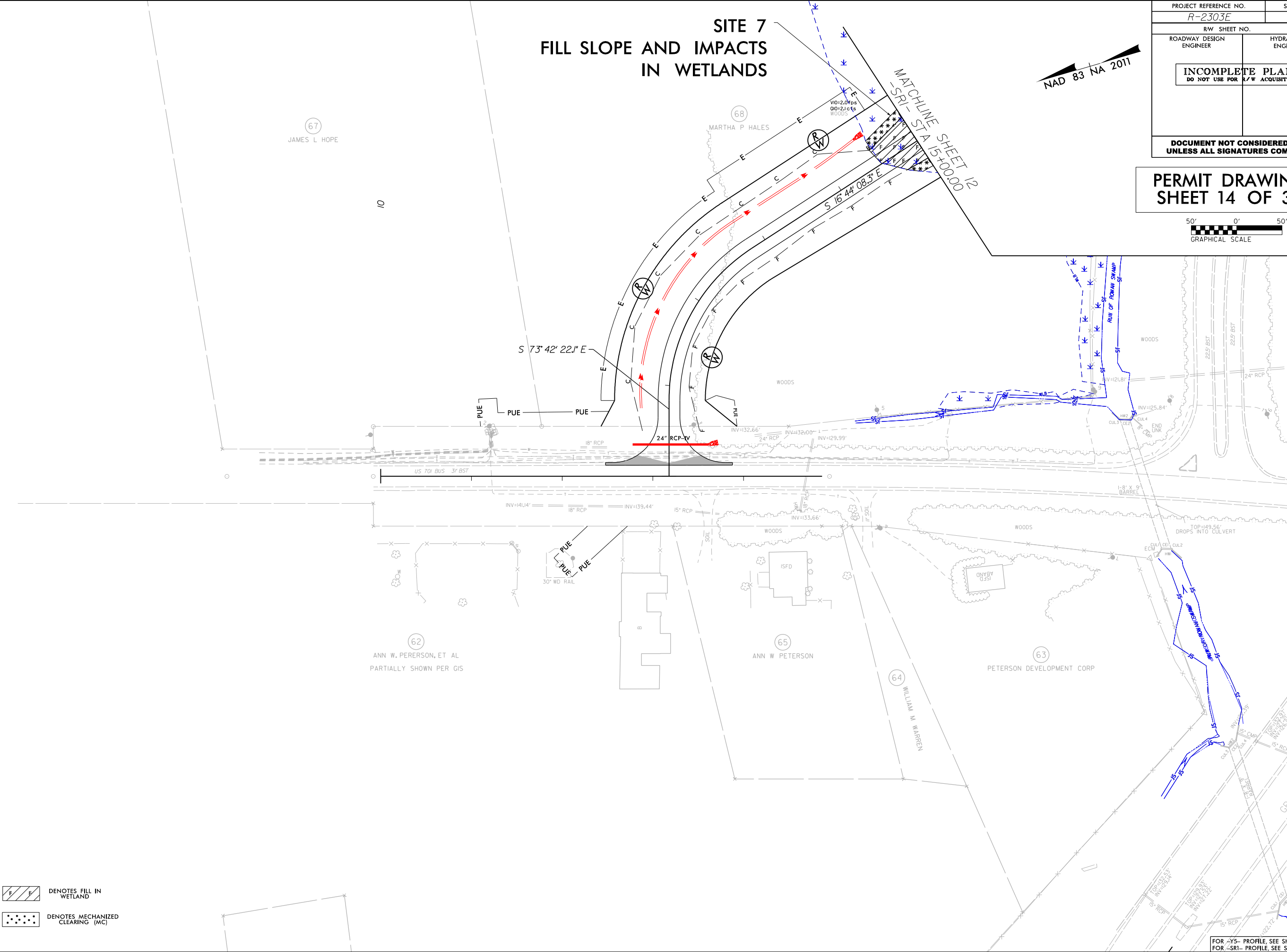
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RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PERMIT DRAWING
SHEET 14 OF 37



NAD 83 NA 2011

- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING (MC)



FOR -YS- PROFILE, SEE SHEET NO. 28
FOR -SR1- PROFILE, SEE SHEET NO. 29

8/17/99

8/27/2018
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Thurman

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-2303E	12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

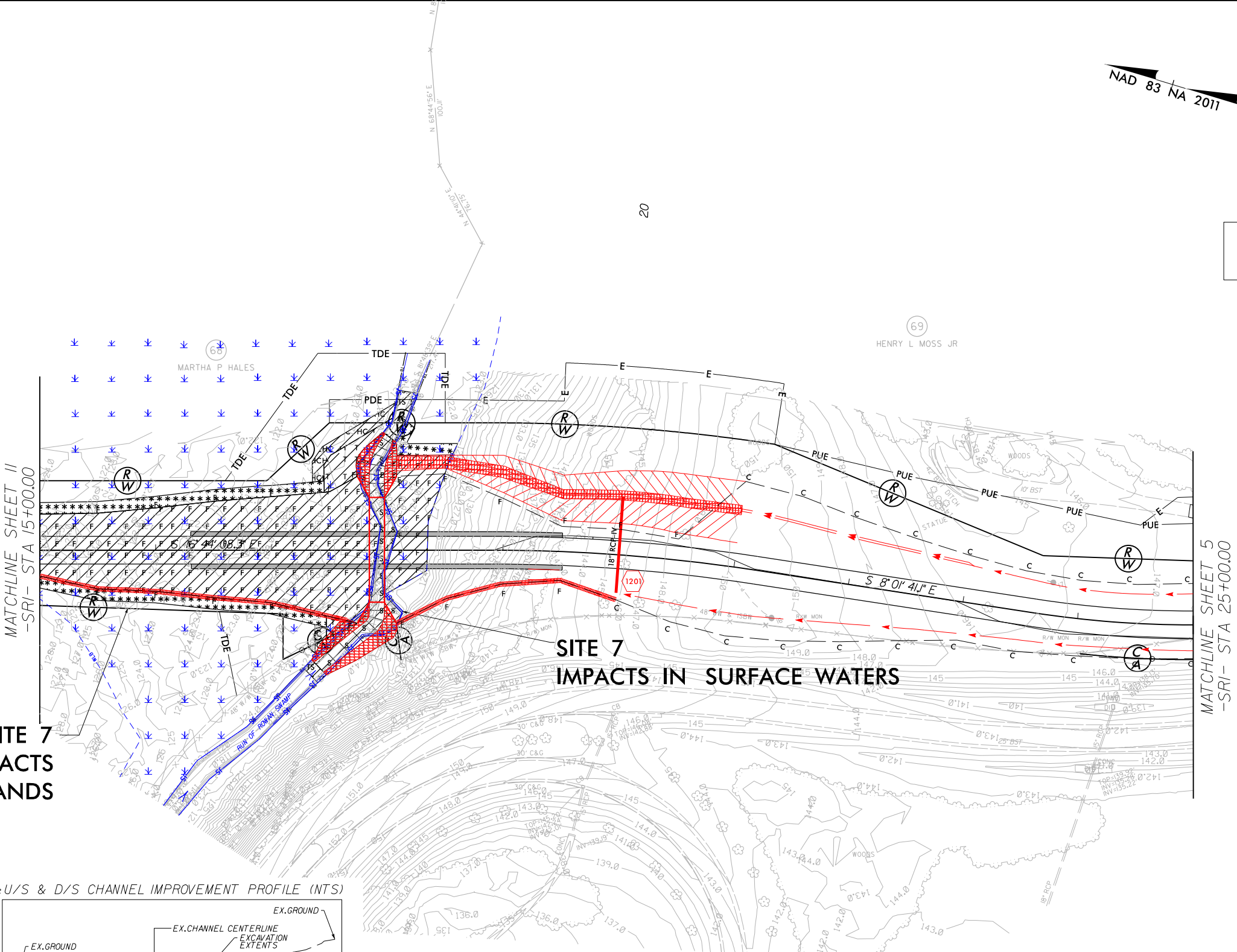
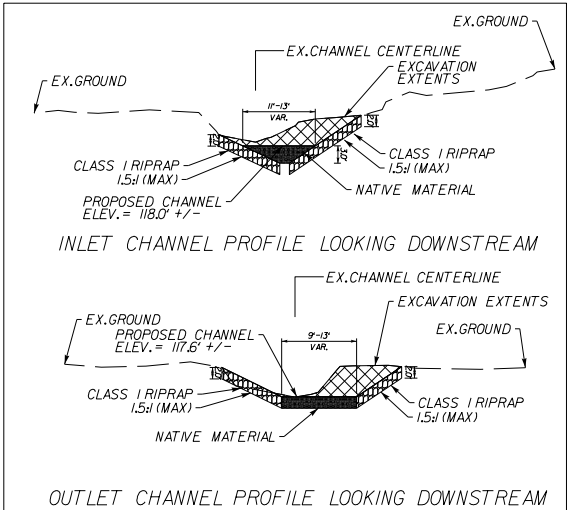
PERMIT DRAWING
SHEET 15 OF 37

NAD 83 NA 2011

SITE 7
FILL SLOPE AND IMPACTS
IN WETLANDS

DETAIL: U/S & D/S CHANNEL IMPROVEMENT PROFILE (NTS)

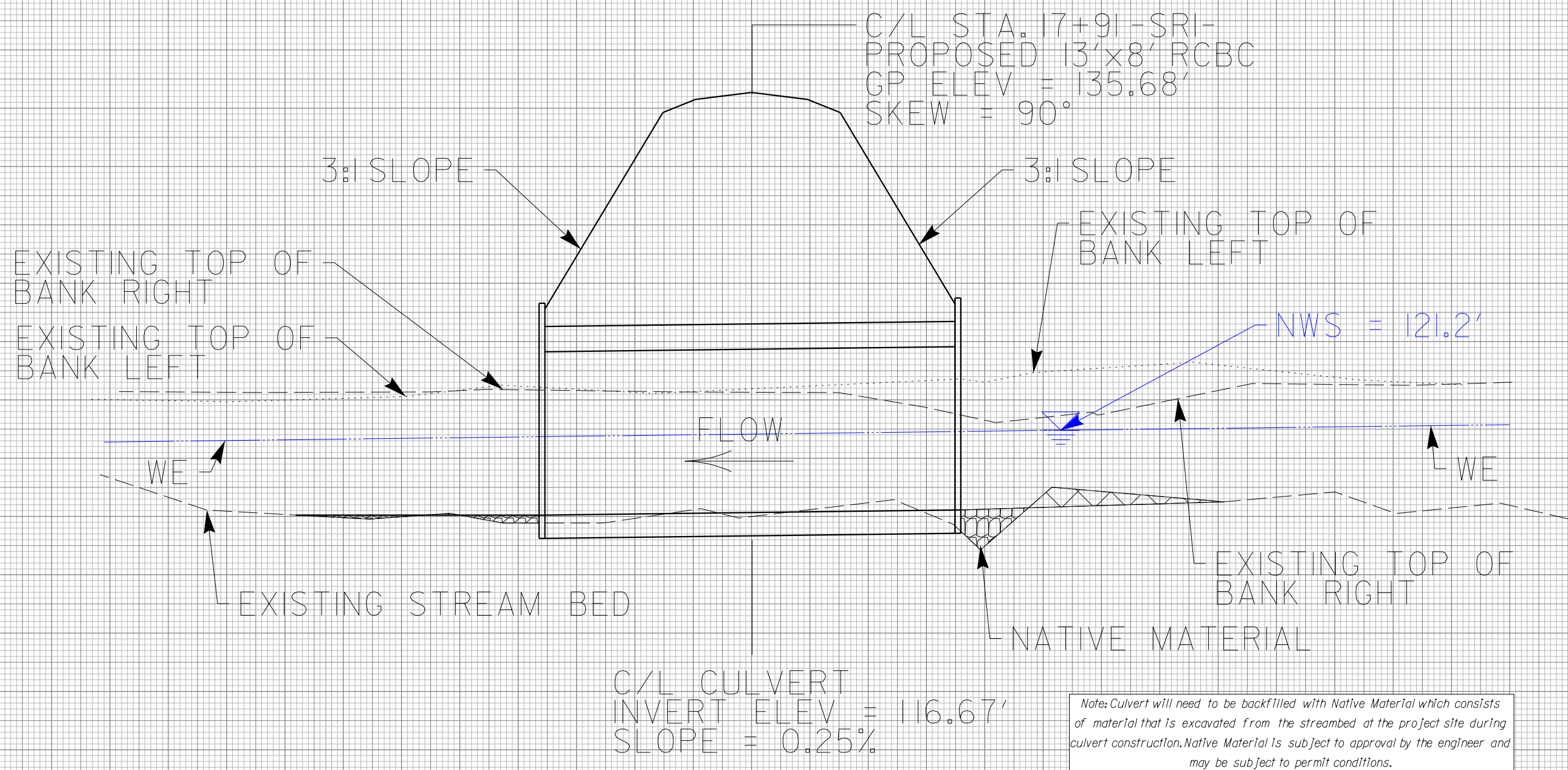
-  DENOTES FILL IN WETLAND
-  DENOTES HAND CLEARING
-  DENOTES MECHANIZED CLEARING
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY EXCAVATION IN WETLAND



FOR -SRI- PROFILE, SEE SHEET NO. 30 & 31

5/14/99
8/27/2018
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Thurman

PROJECT REFERENCE NO. <i>R-2303E</i>		SHEET NO. <i>PRM-6</i>
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
PERMIT DRAWING SHEET 17 OF 37		



Note: Culvert will need to be backfilled with Native Material which consists of material that is excavated from the streambed at the project site during culvert construction. Native Material is subject to approval by the engineer and may be subject to permit conditions.

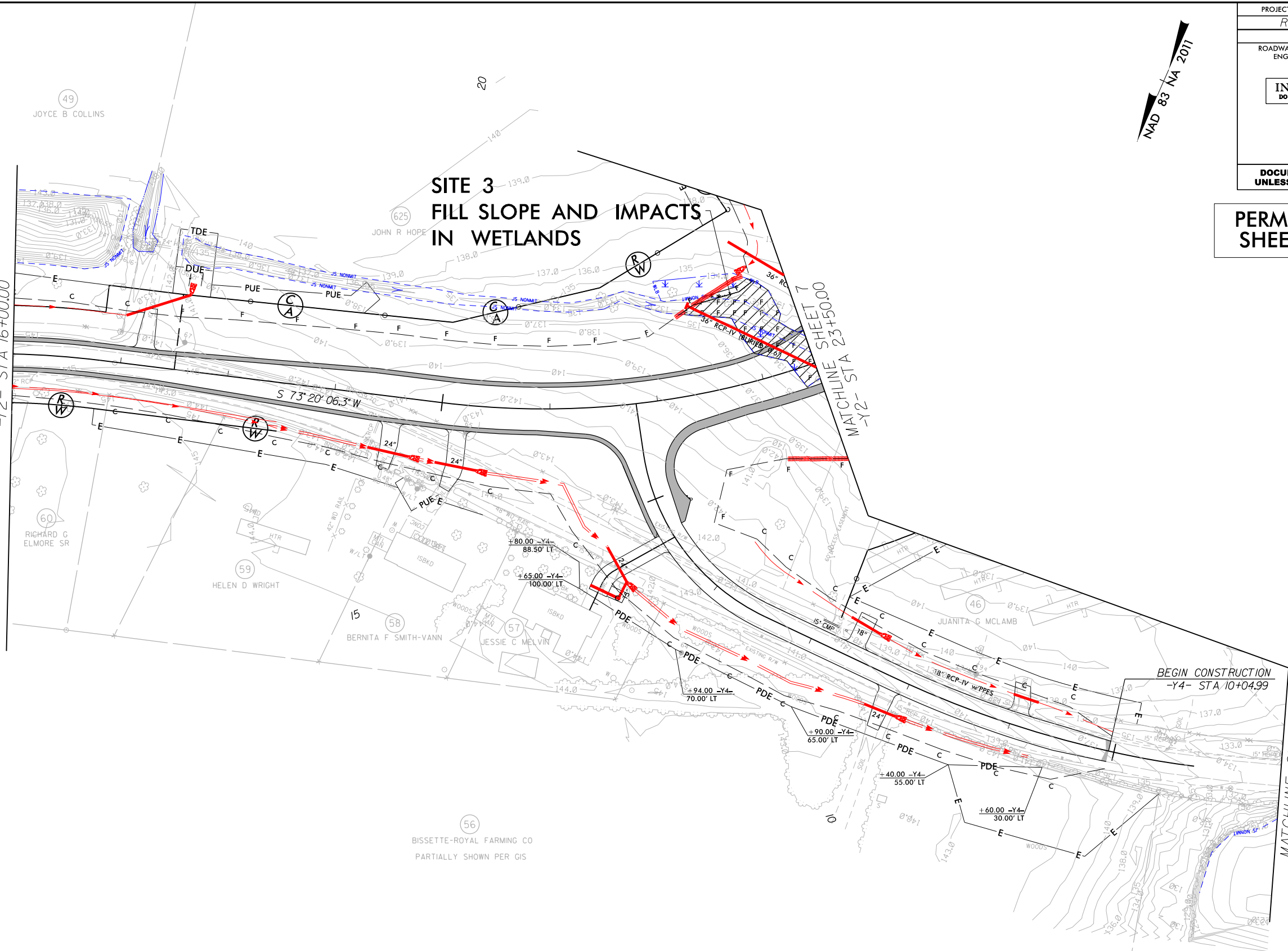
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8/27/2018
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Thurman

REVISIONS

- DENOTES MECHANIZED CLEARING (MC)
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES IMPACTS IN SURFACE WATER

MATCHLINE SHEET 13
-Y2- STA 16+00.00



NAD 83 NA 2011

PROJECT REFERENCE NO.	SHEET NO.
R-2303E	14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 18 OF 37

BEGIN CONSTRUCTION
-Y4- STA 10+04.99

MATCHLINE SHEET 7



NOTE: PPES - PARALLEL PIPE END SECTION

FOR -Y2- PROFILE, SEE SHEET NO. 22
FOR -Y4- PROFILE, SEE SHEET NO. 27
FOR -DR2- PROFILE, SEE SHEET NO. 33

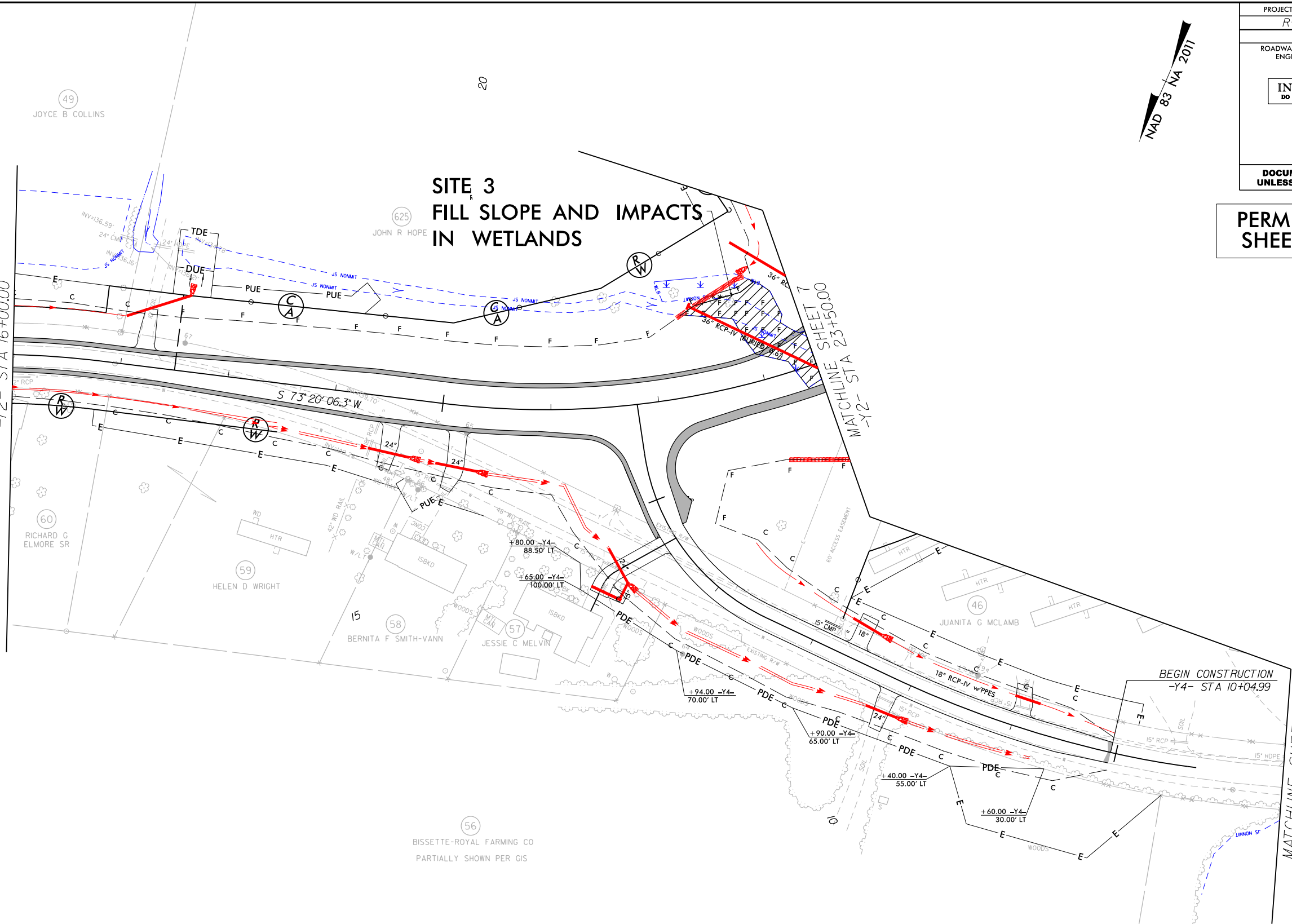
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REVISIONS

- DENOTES MECHANIZED CLEARING (MC)
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES IMPACTS IN SURFACE WATER

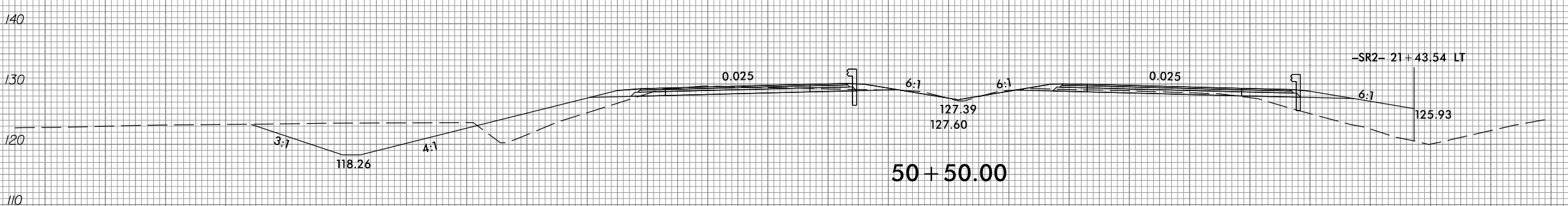
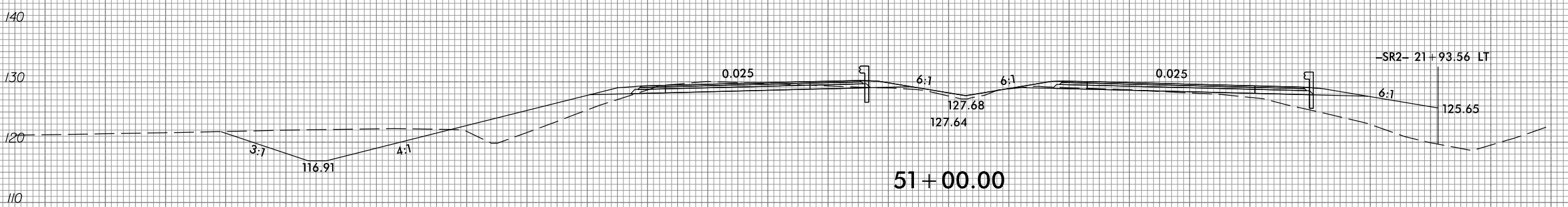
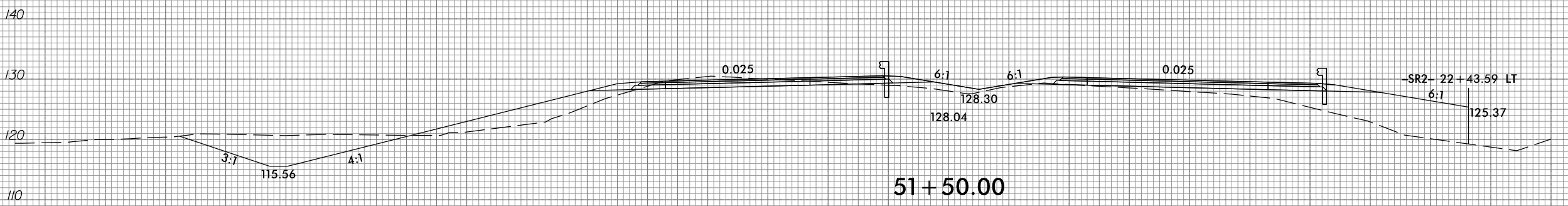
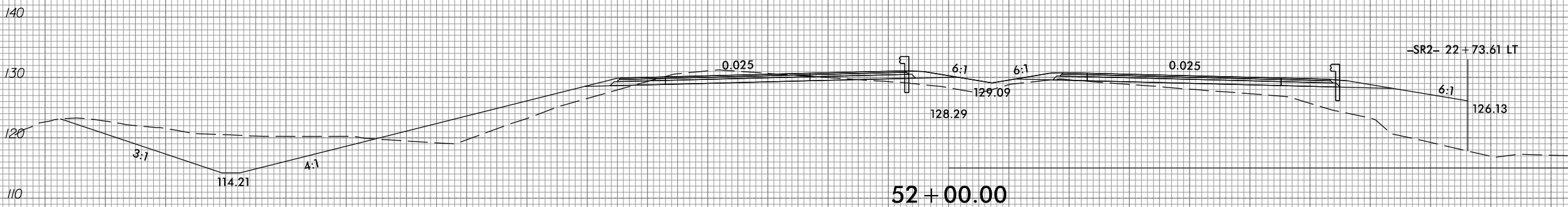
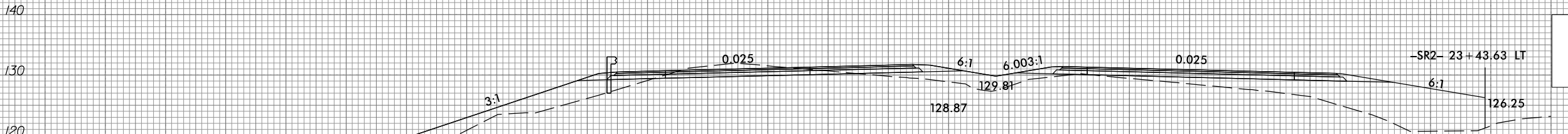
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-Y2- STA 16+00.00



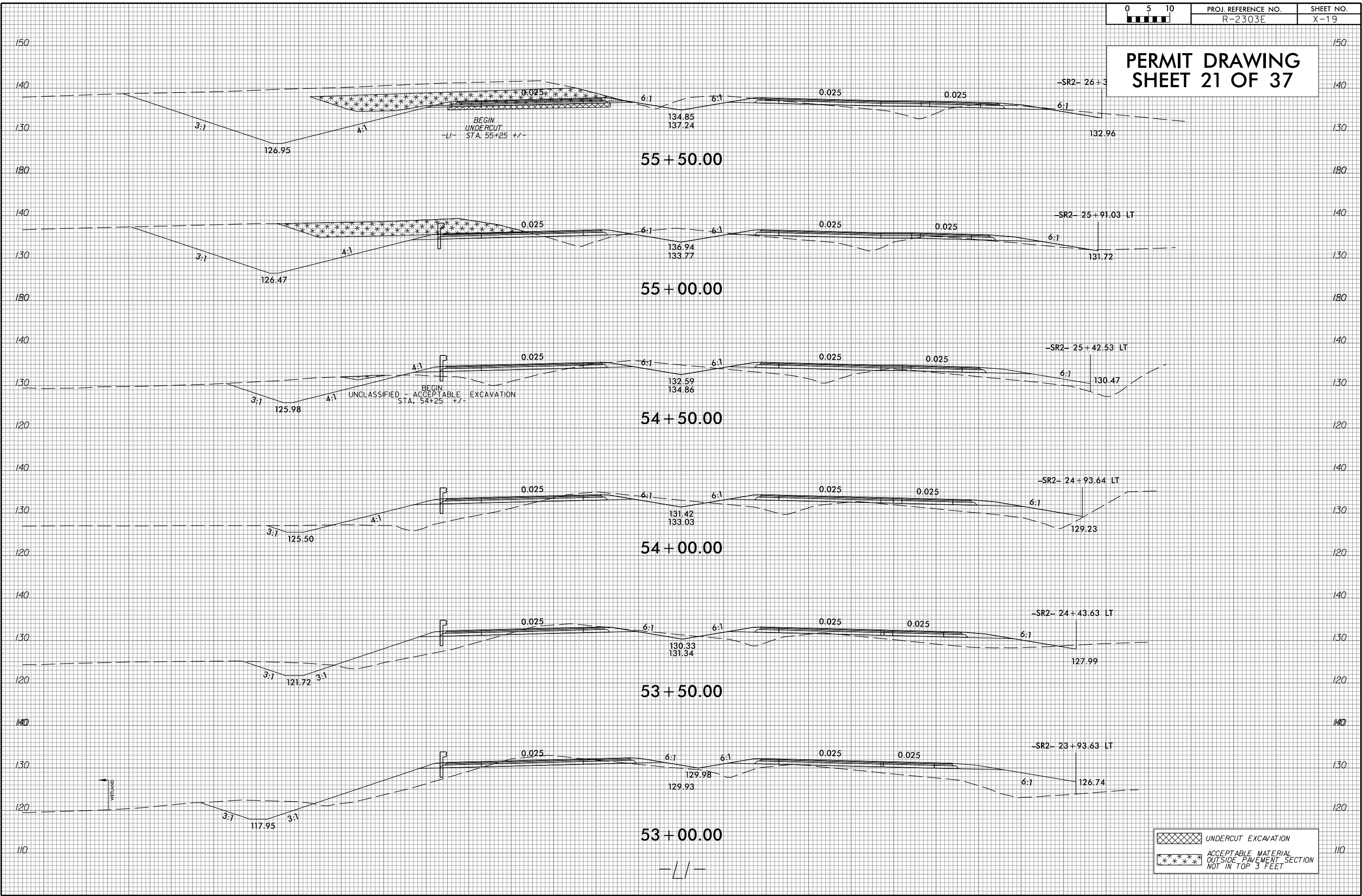
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PERMIT DRAWING
SHEET 20 OF 37

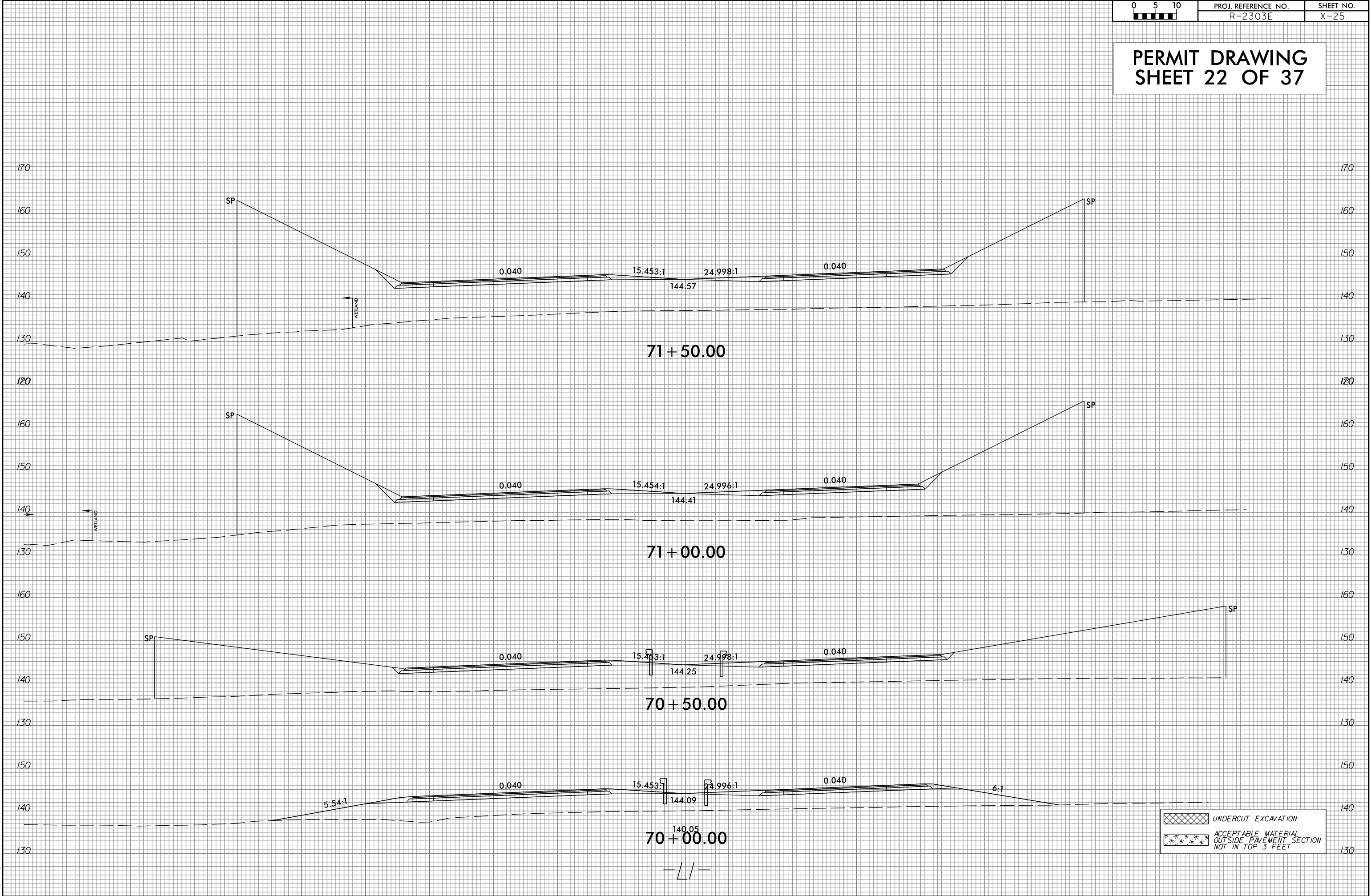


[Cross-hatched box] UNDERCUT EXCAVATION
[Stippled box] ACCEPTABLE MATERIAL OUTSIDE PAVEMENT SECTION NOT IN TOP 3 FEET



6/23/16

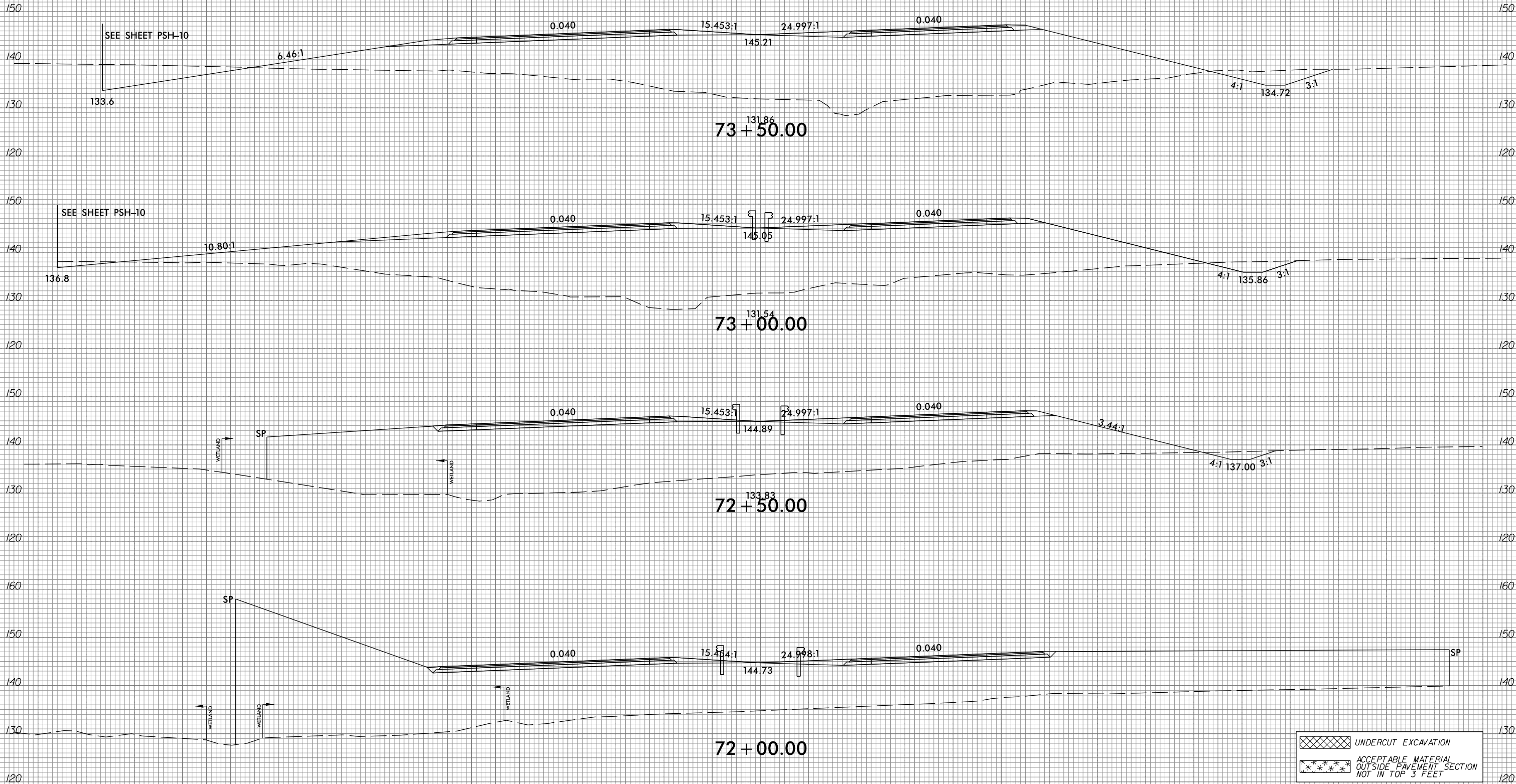
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6/23/16

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PERMIT DRAWING
SHEET 23 OF 37



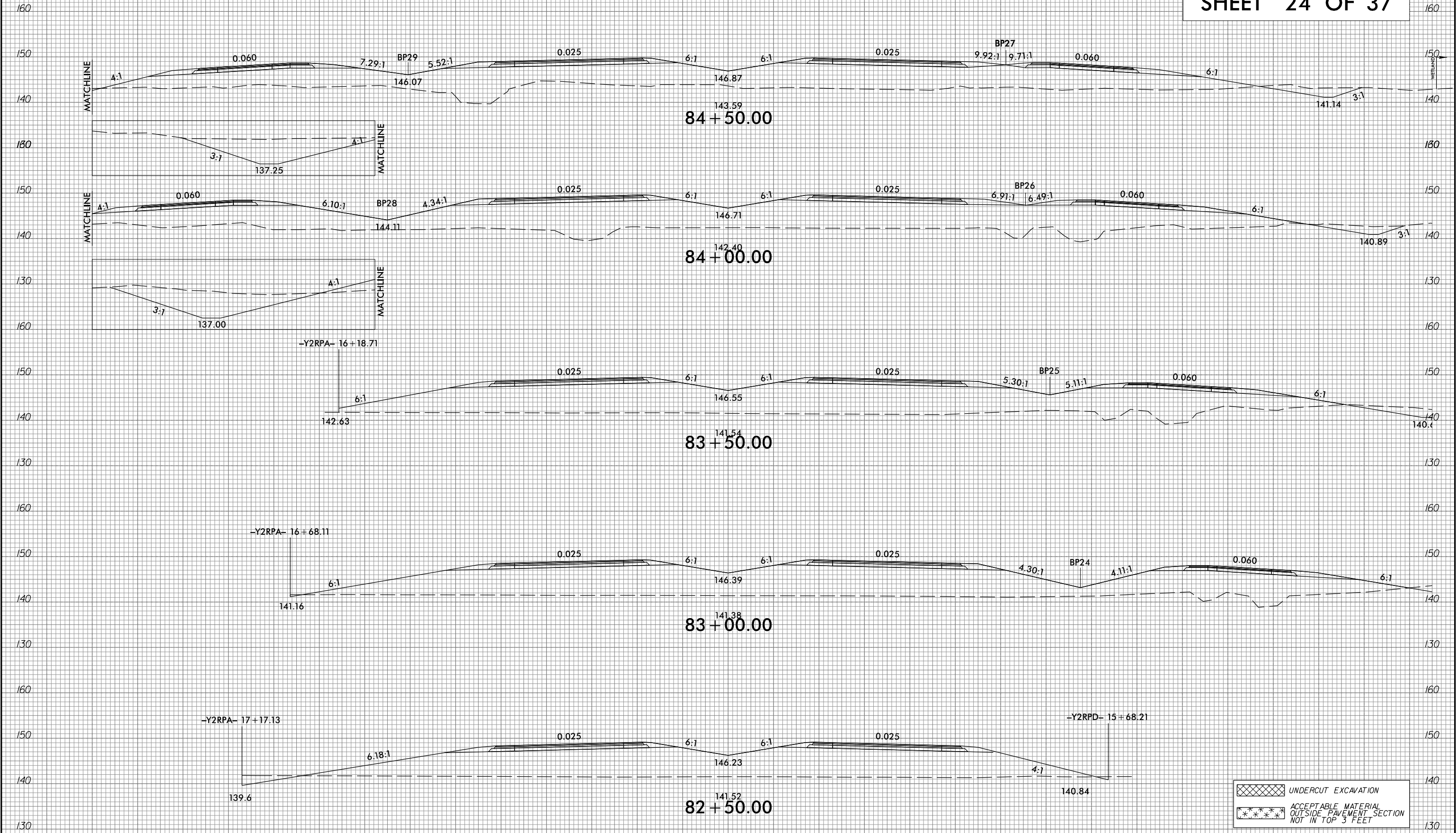
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	R-2303E	X-30

PERMIT DRAWING
SHEET 24 OF 37



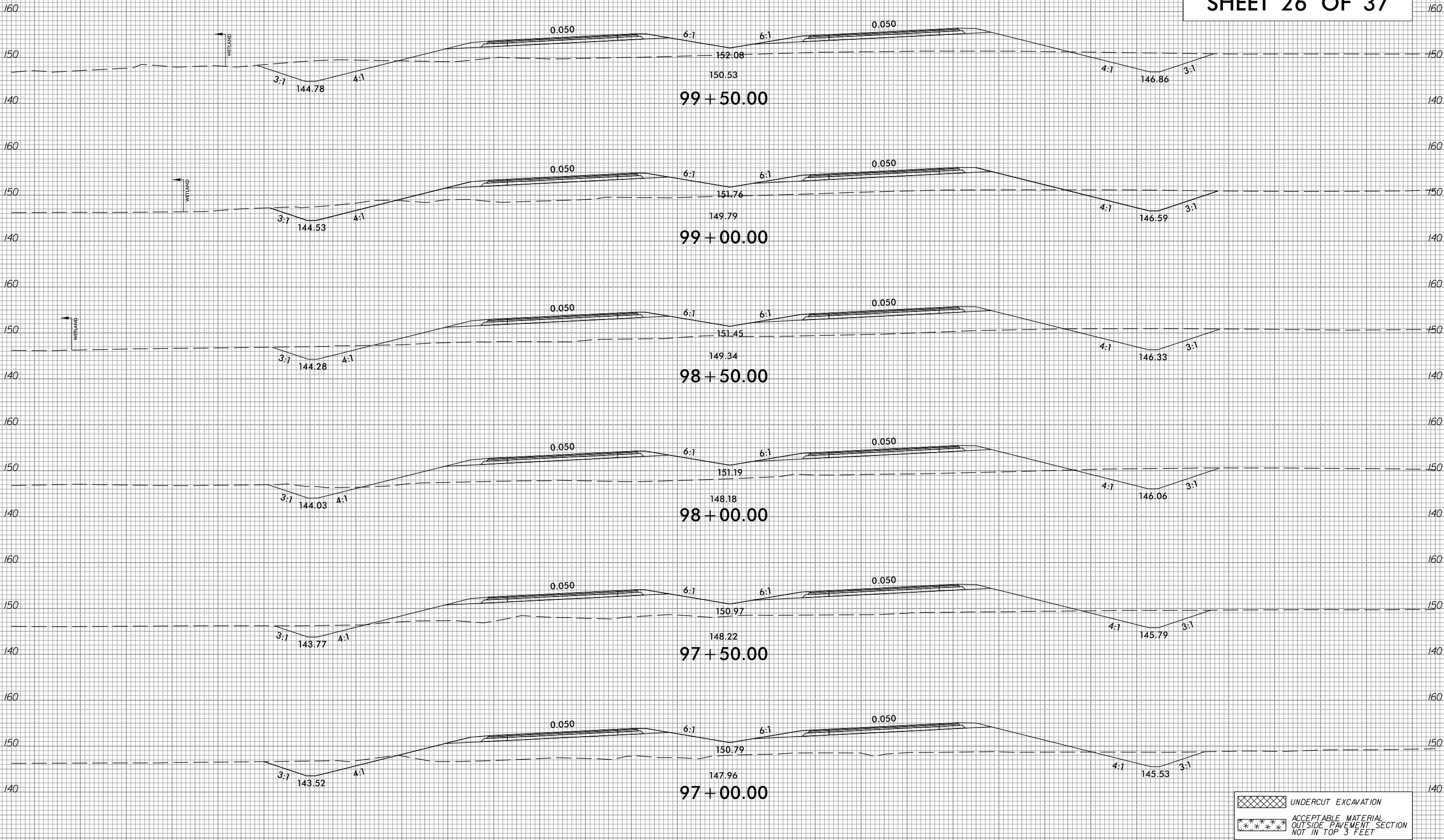
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6/23/16

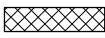
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Thutman

	PROJ. REFERENCE NO.	SHEET NO.
	R-2303E	X-35

PERMIT DRAWING
SHEET 26 OF 37



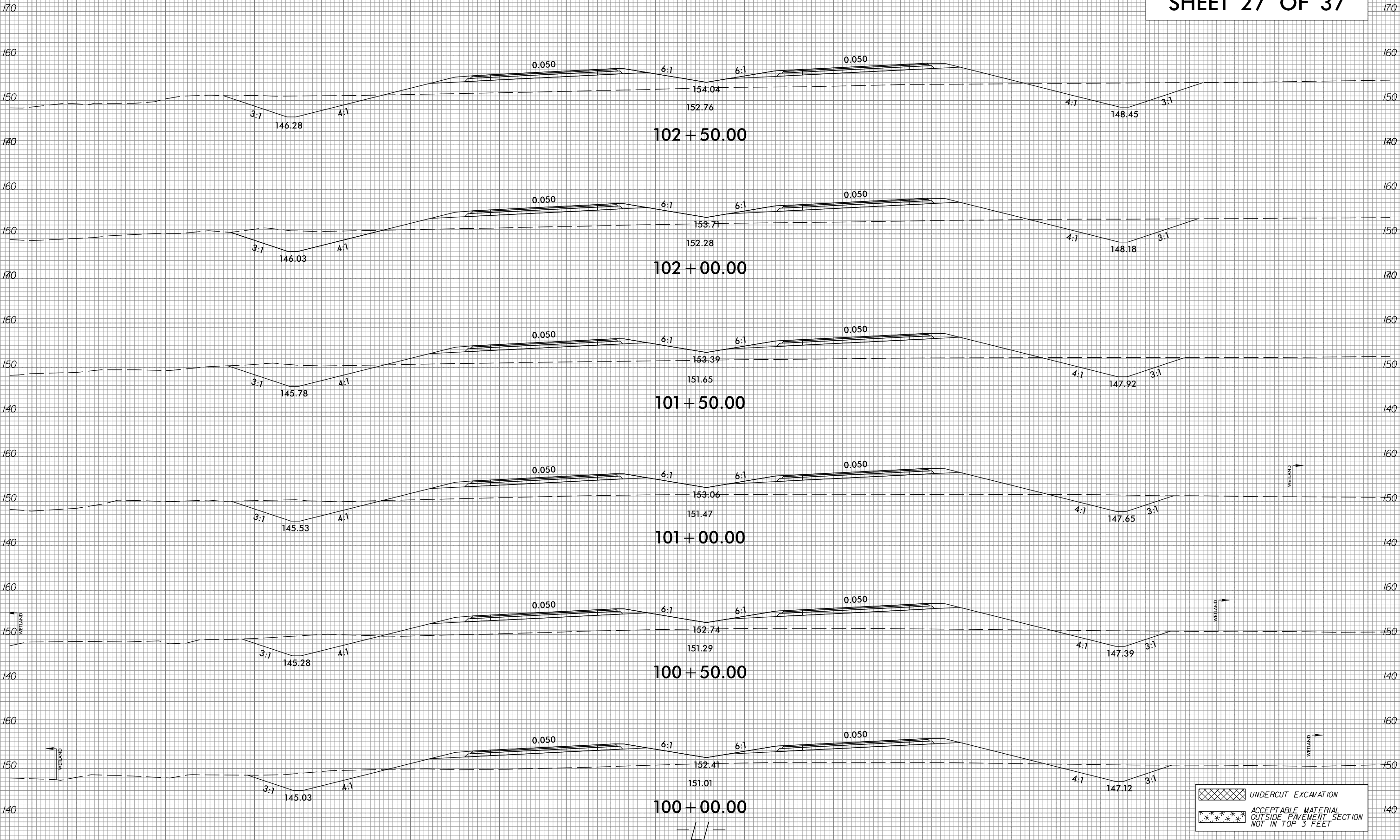
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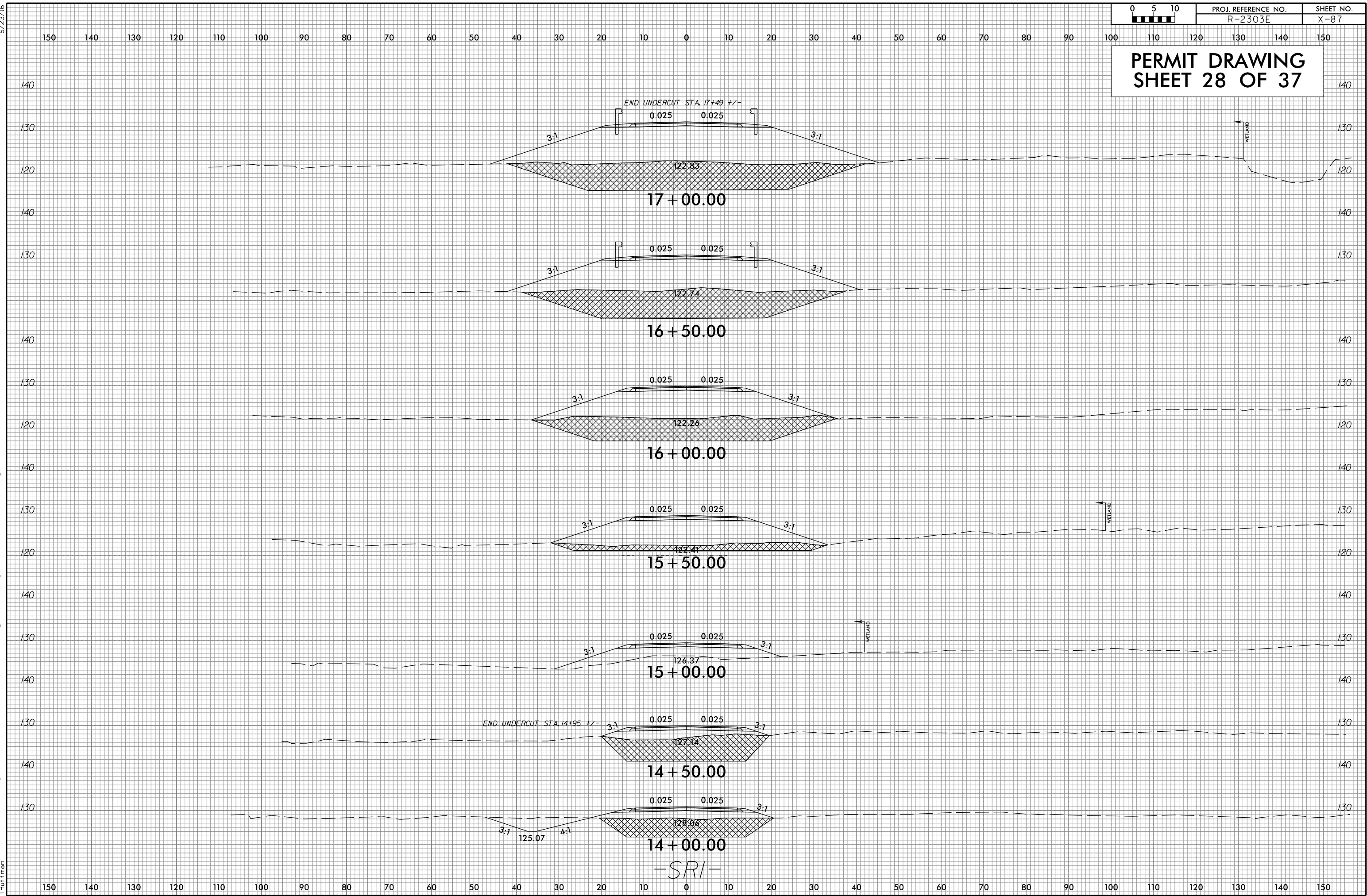
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 ACCEPTABLE MATERIAL
OUTSIDE PAVEMENT SECTION
NOT IN TOP 3 FEET

6/23/16

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PERMIT DRAWING
SHEET 27 OF 37



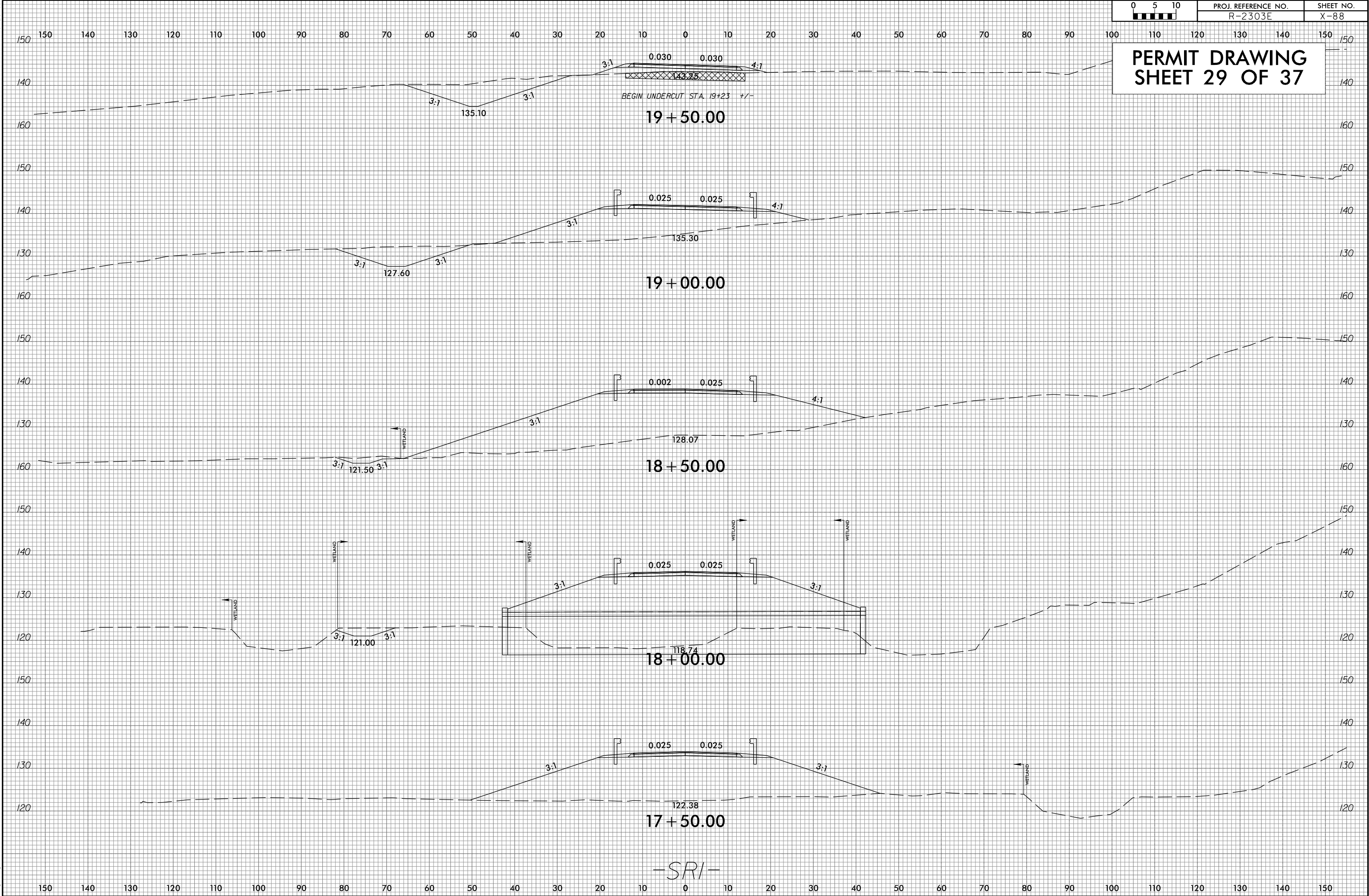


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8/21/2019
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PERMIT DRAWING
SHEET 29 OF 37

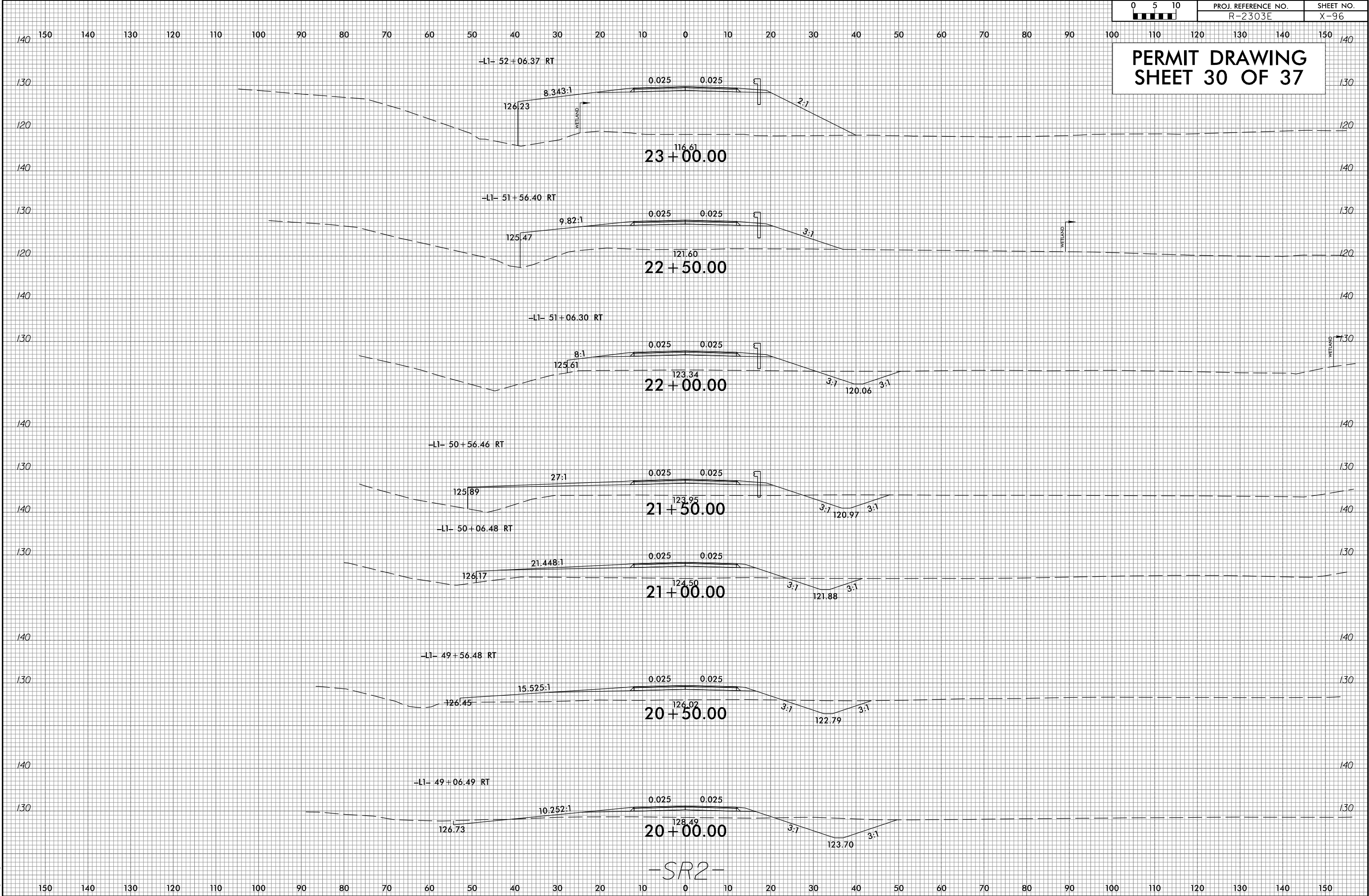


6/23/16

8/21/2019
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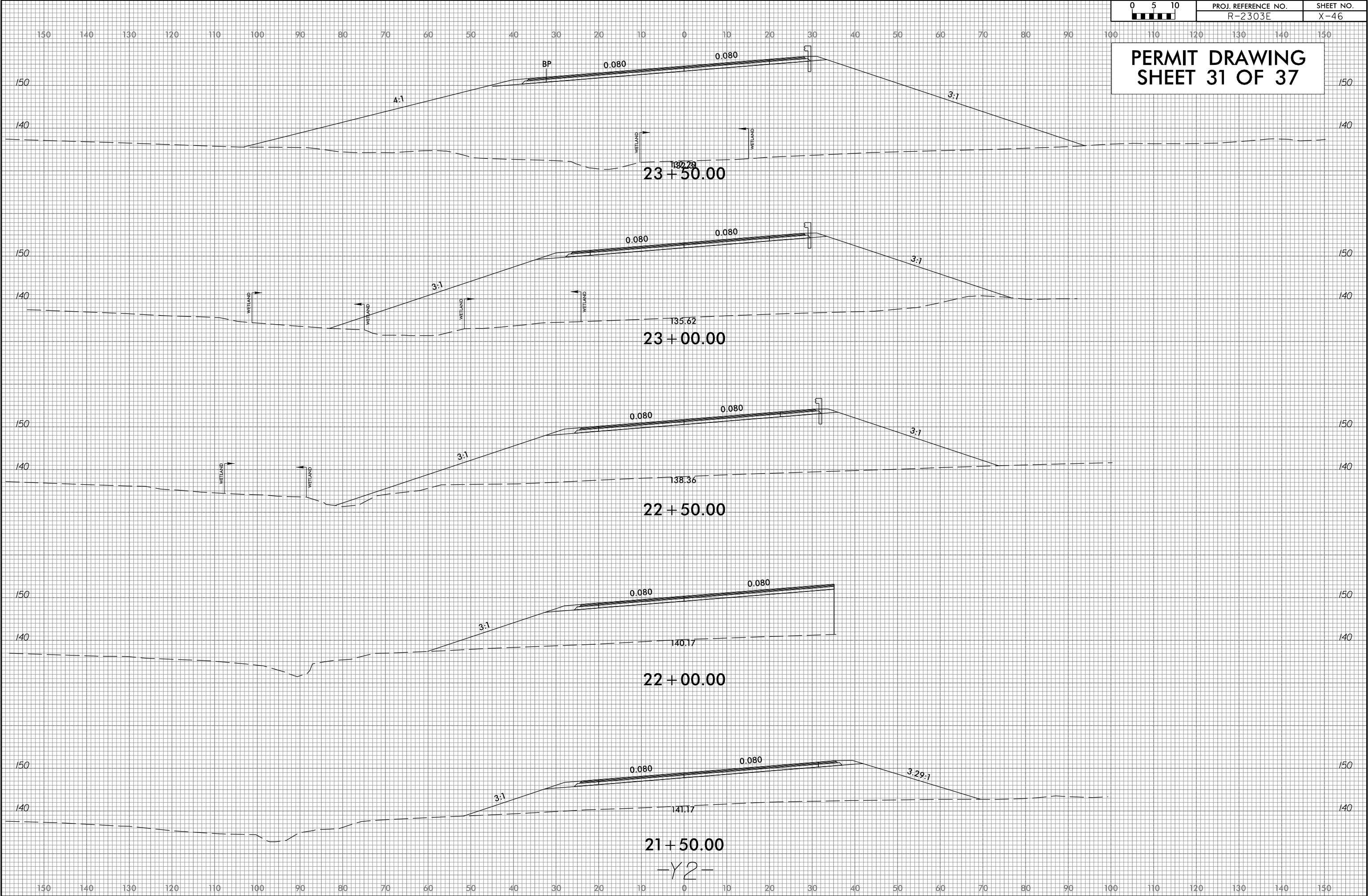
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PERMIT DRAWING
SHEET 30 OF 37



6/23/16

8/21/2019
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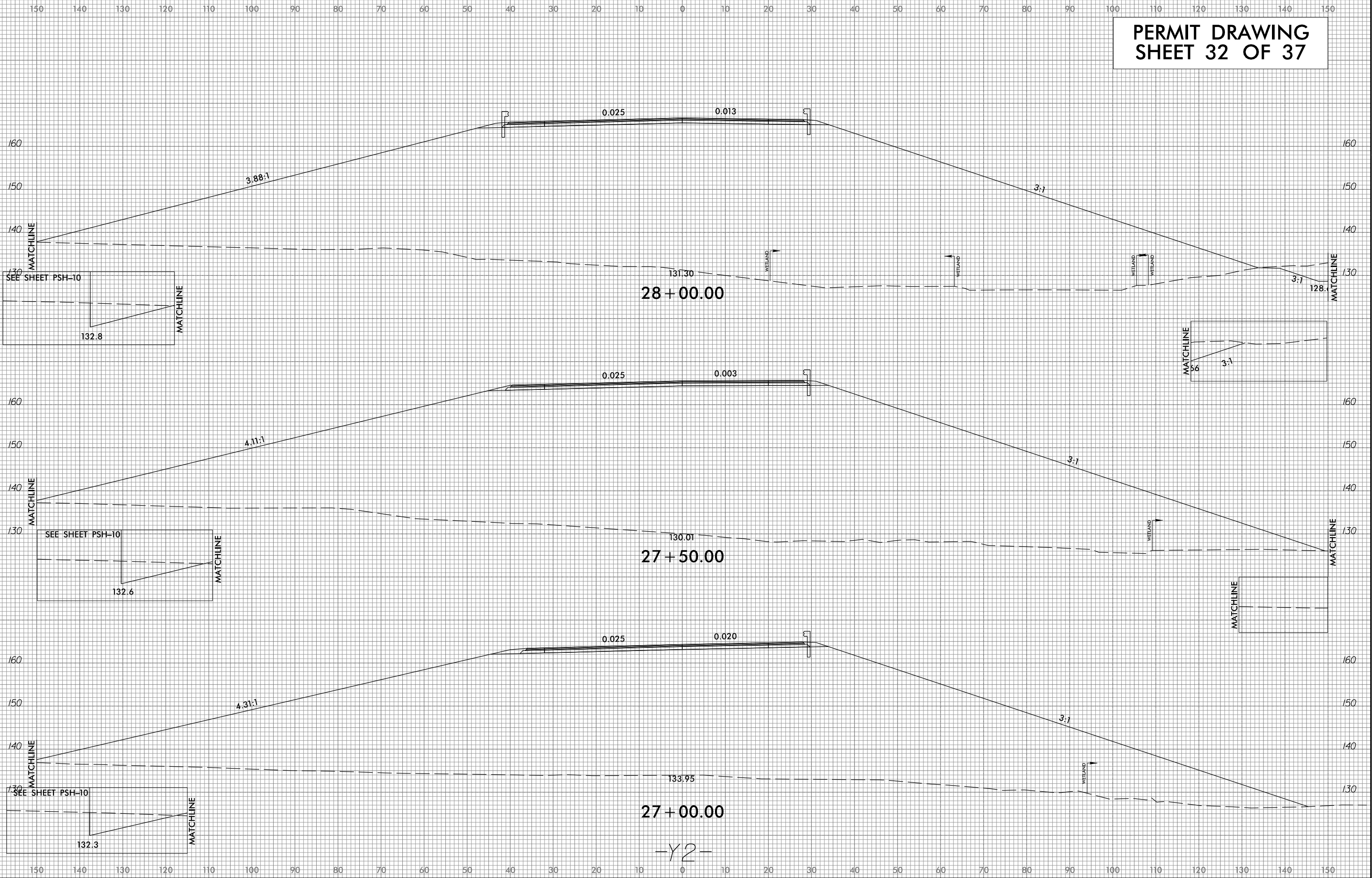


6/23/16

8/27/2019
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PERMIT DRAWING
SHEET 32 OF 37

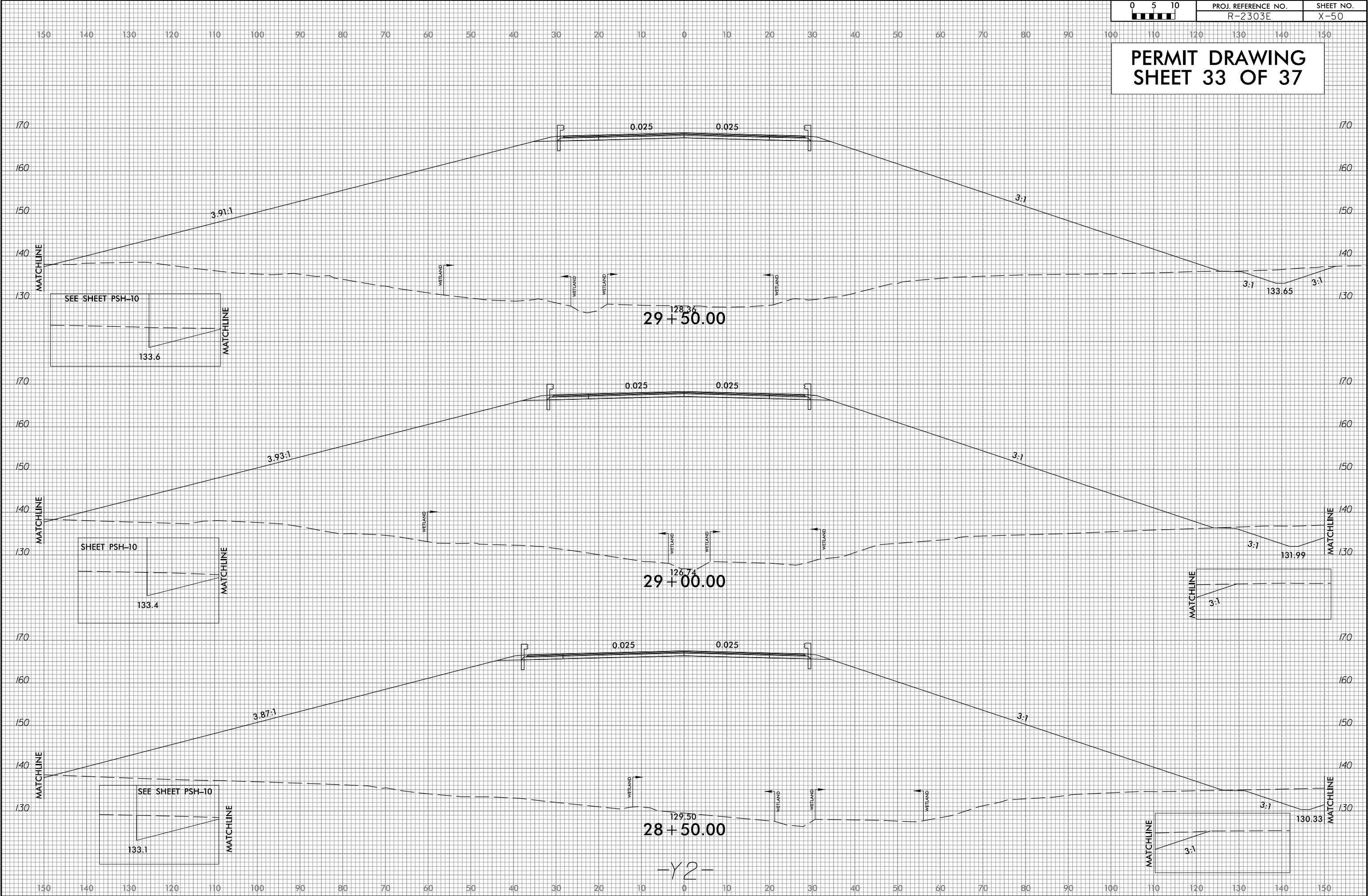


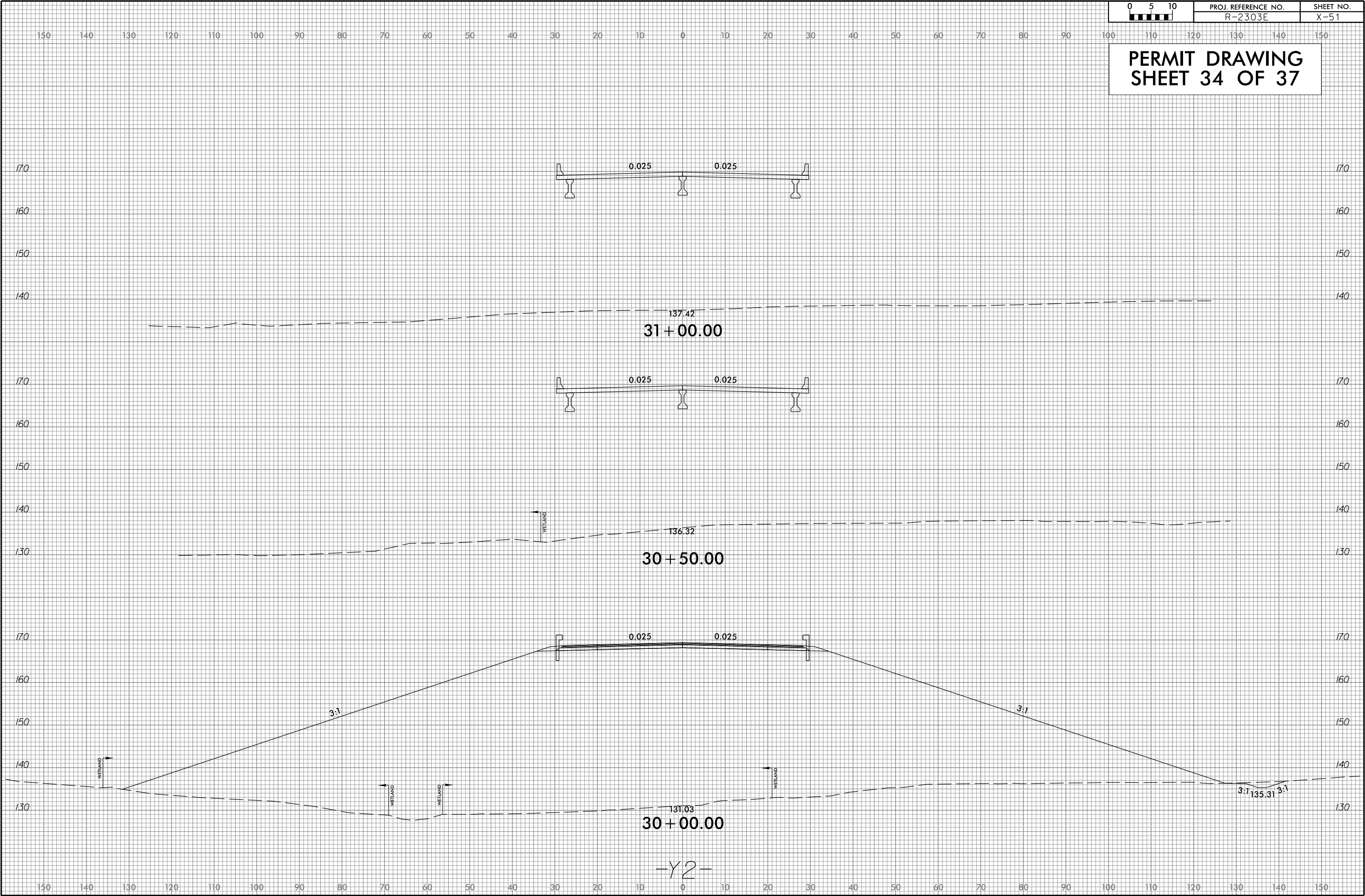
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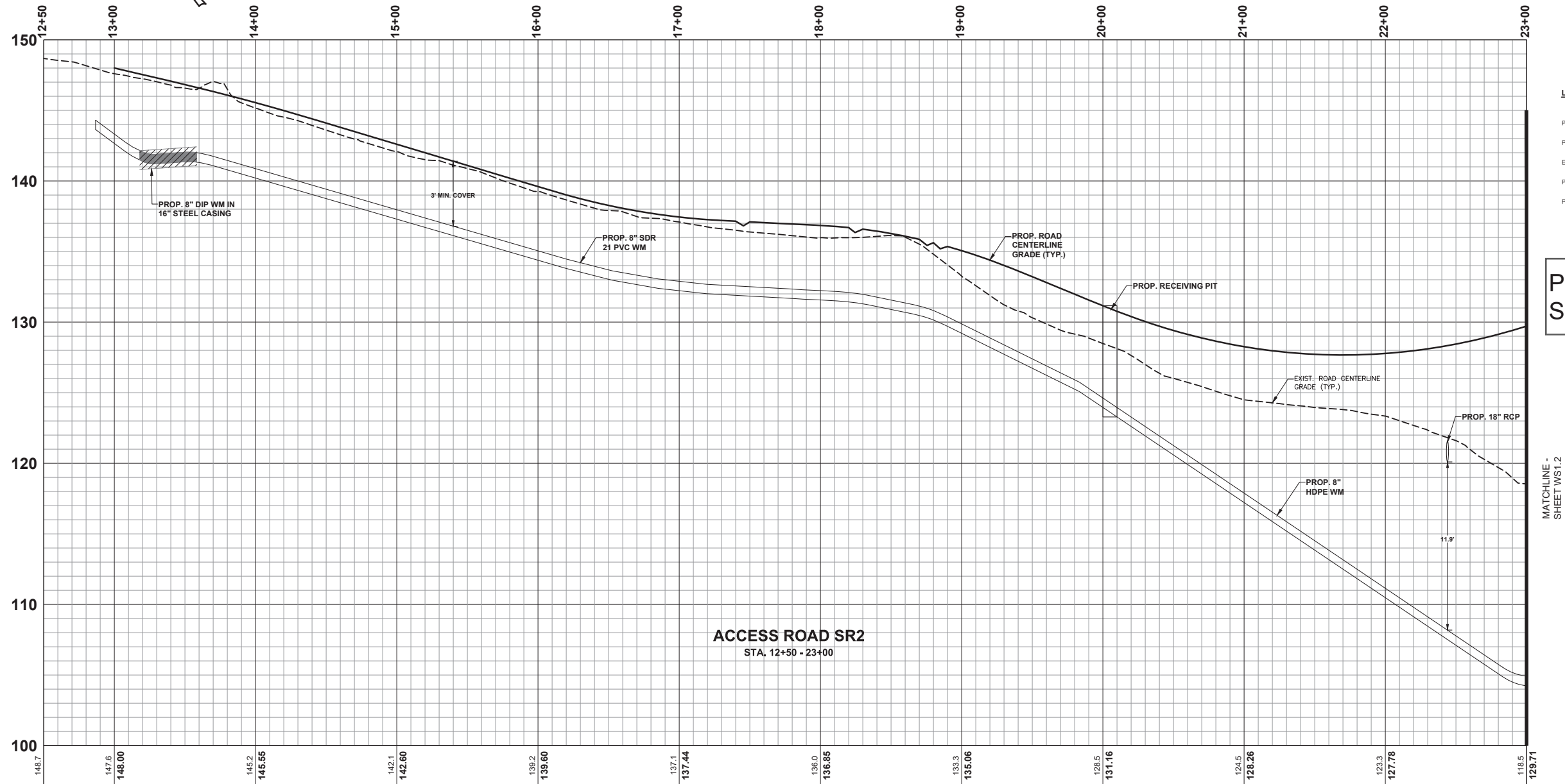
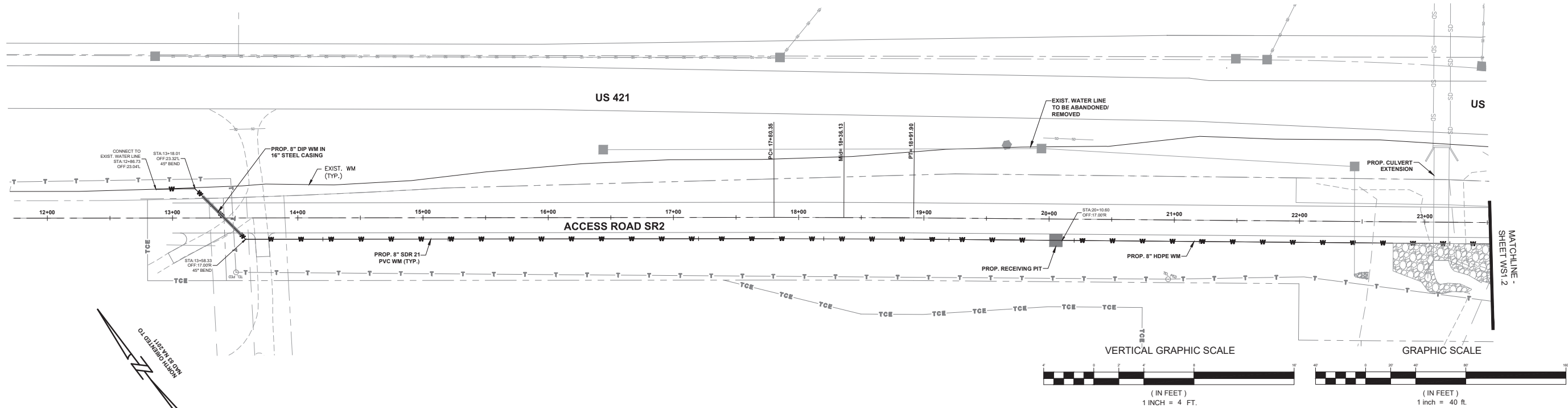
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PERMIT DRAWING
SHEET 33 OF 37





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LEGEND

PROP. WATER MAIN

PROP. GATE VALVE

EXIST. WATER MAIN

PROP. TELEPHONE LINE

PROP. OVERHEAD POWER LINE

**PERMIT DRAWING
SHEET 35 OF 37**



ESP Associates, Inc.
2200 Gateway Centre Blvd
Suite 216
Norcross, GA 30071
www.espassociates.com
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ESP

NO.	DATE	REVISION	BY

WATERMAIN PLAN & PROFILE - SHEET
2 OF 8

SAMPSON COUNTY UTILITIES

MOFFAT & NICHOL

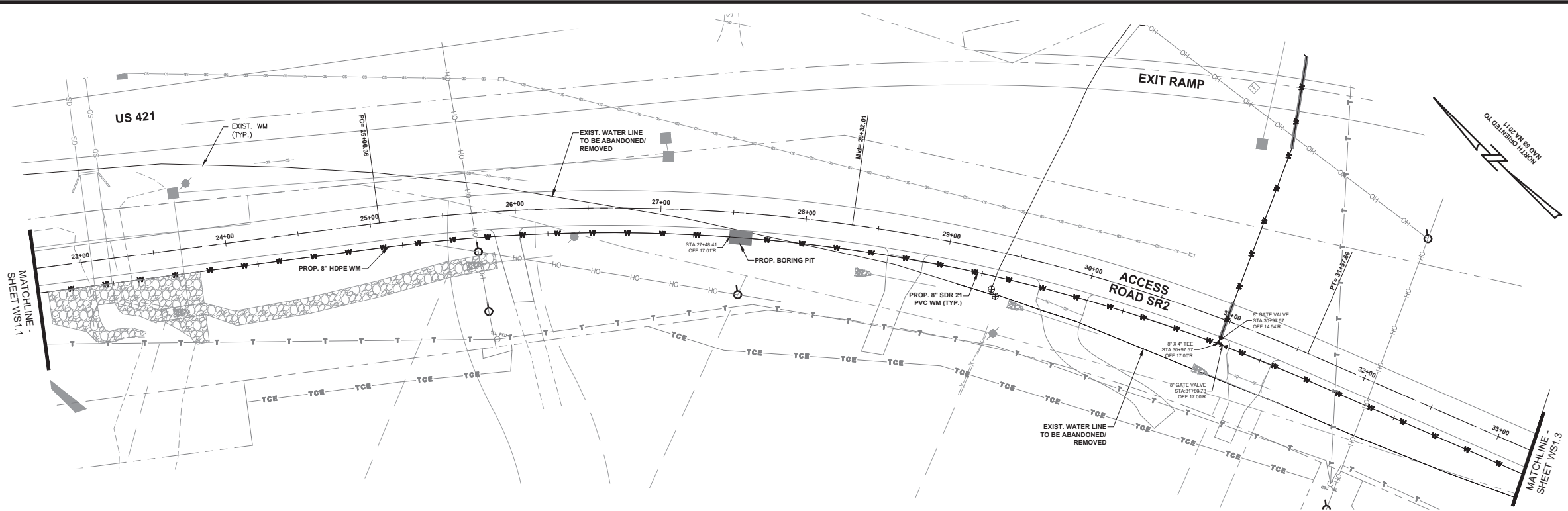
SAMPSON COUNTY, NC

PROJECT INFORMATION

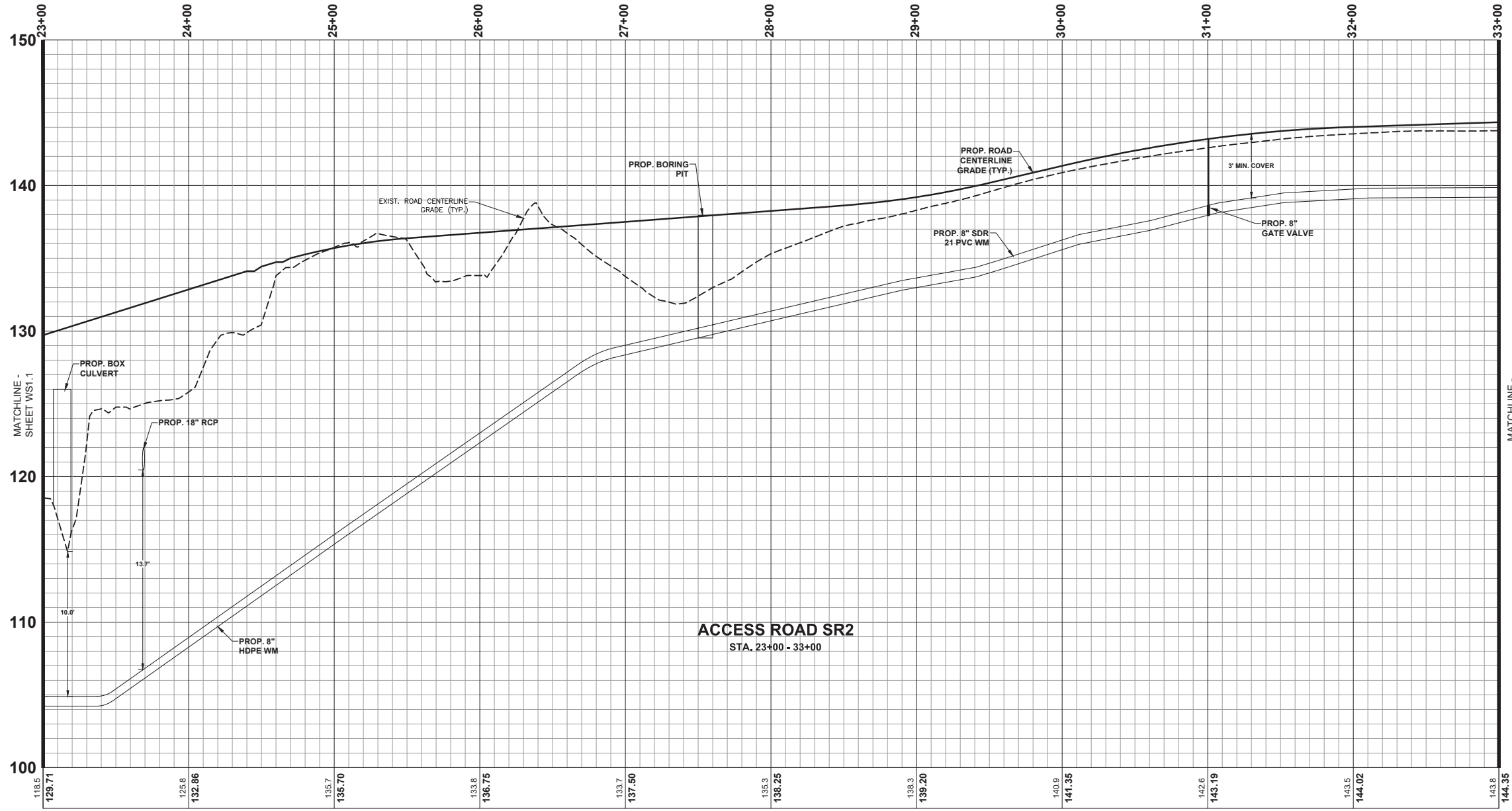
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DESIGNED BY:	AF
DRAWN BY:	CL
PROJECT NUMBER:	GS27.400
ORIGINAL DATE:	08/20/2019

SHEET: **WS1.1**

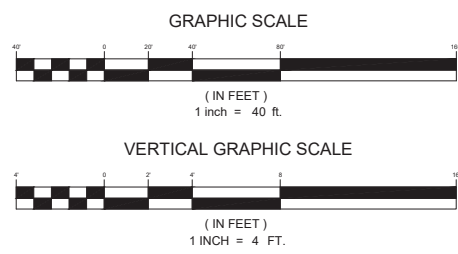
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- LEGEND**
- PROP. WATER MAIN
 - PROP. GATE VALVE
 - EXIST. WATER MAIN
 - PROP. TELEPHONE LINE
 - PROP. OVERHEAD POWER LINE



PERMIT DRAWING
SHEET 36 OF 37



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REVISION

DATE

NO.

WATERMAIN PLAN & PROFILE - SHEET
3 OF 8

SAMPSON COUNTY UTILITIES
MOFFAT & NICHOL

SAMPSON COUNTY, NC

PROJECT INFORMATION

PROJECT MANAGER: SM

DESIGNED BY: AF

DRAWN BY: CL

PROJECT NUMBER: GS27.400

ORIGINAL DATE: 08/20/2019

SHEET: WS1.2

WETLAND AND SURFACE WATER IMPACTS SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Excavation in Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Bank Stabilization (ft)
1	-L1- 52+06 LT TO 52+58 LT	BANK STABILIZATION					0.002	0.046	0.007		10	44
1	-L1- 51+54 RT TO 52+14 RT	FILL SLOPE	0.070			0.028	0.022	0.109		252		
1	-L1- 52+15 RT TO 52+61 RT	BANK STABILIZATION						0.015	0.009		29	43
2	-Y2- 26+86 RT TO 30+56 RT	FILL SLOPE	0.728			0.041	0.006	0.200	0.005	847	20	
3	-Y2- 21+85 RT TO 24+66 RT	FILL SLOPE	0.110			0.014		0.040	0.004	200	20	
4	-Y2RPD- 20+36 RT TO 20+66 RT	BANK STABILIZATION							0.010		52	
4	-Y2RPD- 19+24 RT TO 20+11 RT	FILL SLOPE						0.019		99		
5	-L1- 98+63 RT TO 99+79 RT	EXCAVATION			0.002	0.008						
6	-L1- 100+67 RT TO 100+69 RT	FILL SLOPE				0.002						
7	-SR1- 14+52 LT TO 18+61 LT	FILL SLOPE	0.342			0.057	0.014					
7	-SR1- 17+91	13'X 8' CULVERT						0.042		141		
7	-SR1- 17+85 LT TO 18+29 LT	BANK STABILIZATION			0.012			0.013				41
7	-SR1- 14+53 RT TO 18+34 RT	FILL SLOPE	0.360			0.045						
7	-SR1- 16+85 RT TO 17+98 RT	BANK STABILIZATION						0.024	0.004		10	52
7	-SR1- 16+99 LT TO 18+18 LT	TEMPORARY DIVERSION		0.014			0.098		0.012		43	
7	-SR1- 16+74 RT TO 17+21 RT	TEMPORARY DIVERSION		0.072			0.059					
TOTALS*:			1.611	0.086	0.014	0.195	0.200	0.508	0.051	1539	184	180

*Rounded totals are sum of actual impacts

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08/09/2019
SAMPSON COUNTY
R-2303