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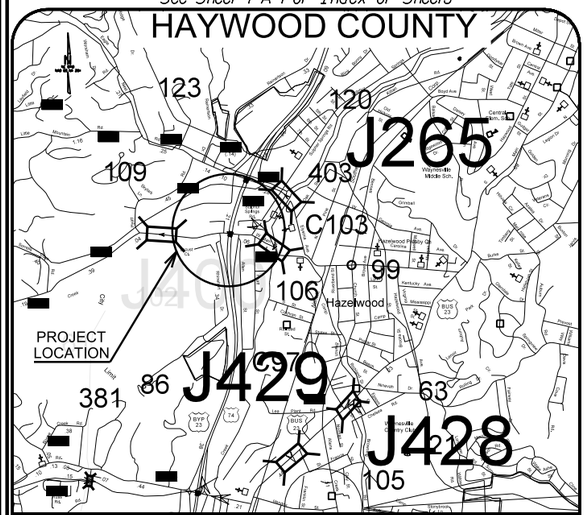
09/08/99

WBS ELEMENT: 47315.3.1

CONTRACT: DN00611

29-MAY-2018 15:23
C:\Users\mcorr\Desktop\plott creek sidewalk\PLOTT CREEK FINAL PDF - Copy\plott creek sidewalk work\dgn\prop\prop_Rdy_dsn.dgn
mcorr AT DIV14-304603L

See Sheet 1-A For Index of Sheets



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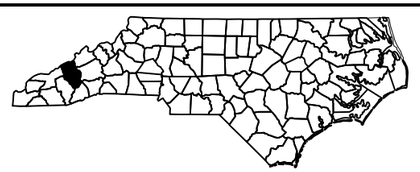


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HAYWOOD COUNTY

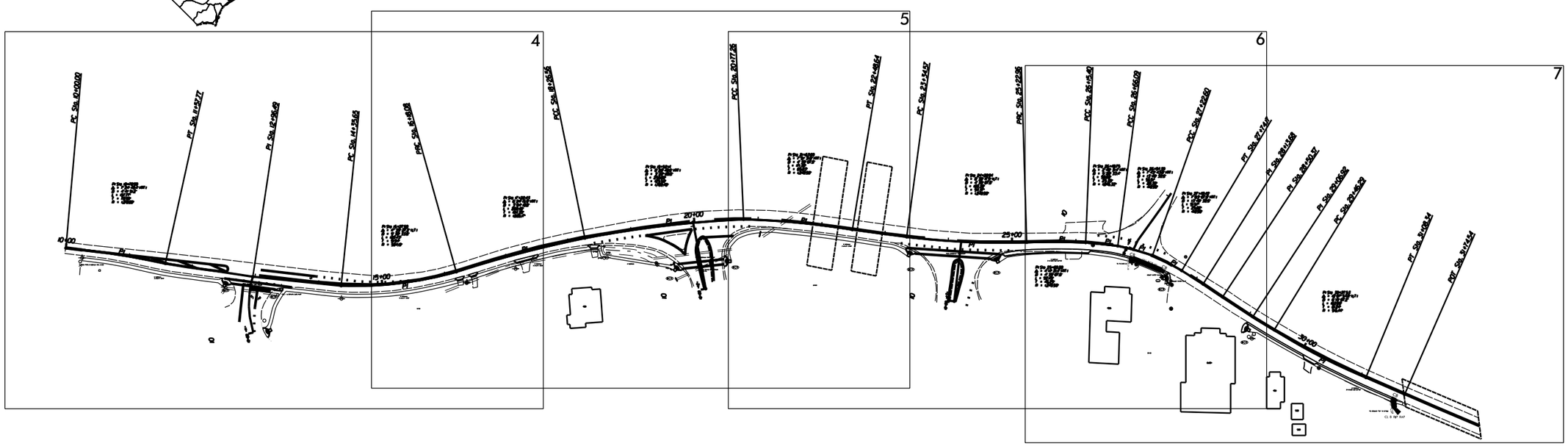
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS: 47315.3.1	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

LOCATION: ALONG NC SR–1173 PLOTT CREEK RD. AND HAZELWOOD AVE

TYPE OF WORK: SIDEWALK, CURB AND GUTTER AND DRAINAGE

N
NC GRID
NAD 83 NA 2011



GRAPHIC SCALES

25 12.5 0 25 50
PLANS

10 5 0 10 20
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

PROJECT LENGTH

0.41 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
191 Robbinsville Rd., Andrews NC, 28901

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
07/24/18

CHRIS LEE, P.E.
PROJECT ENGINEER

ALAN R BROWN
PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION ·

DocuSigned by:
Alan Brown

PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	1A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS
2	CONVENTIONAL SYMBOLS
3	TYPICAL SECTIONS
3A	DRAINAGE SUMMARY
4-7	PLAN SHEETS
DS1-DS2	CURB RAMP DETAIL SHEETS
PM1-PM5	PAVEMENT MARKING PLANS
EC1-EC7	EROSION CONTROL PLANS

GENERAL NOTES

GENERAL NOTES: 2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018

1 CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO THESE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2 THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY.

LIST OF ROADWAY STANDARDS

2018 ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" - Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C., dated January 16, 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

STD. NO.	TITLE
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS	
700.05	Tying Proposed Pavement to Existing Pavement
DIVISION 8 - INCIDENTALS	
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.05	Brick Open Throat Catch Basin - 12" thru 48" Pipe
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.05	Curb Ramp - Proposed Curb and Gutter
876.02	Guide for Rip Rap at Pipe Outlets
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	Detail Drawing for Two Way Divided Work Zone Warning Signs
1101.04	Temporary Shoulder Closures
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	Pavement Markings - Line Types and Offsets
1205.07	Pavement Markings - Pedestrian Crosswalks

04/16/11

Note: Not to Scale

**S.U.E. = Subsurface Utility Engineering*

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	2

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

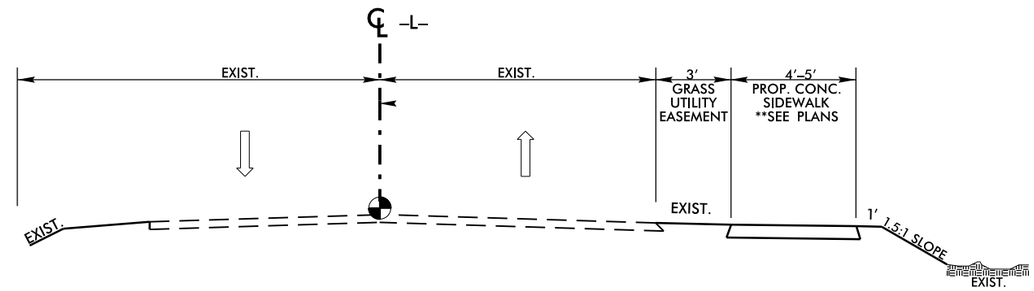
- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.



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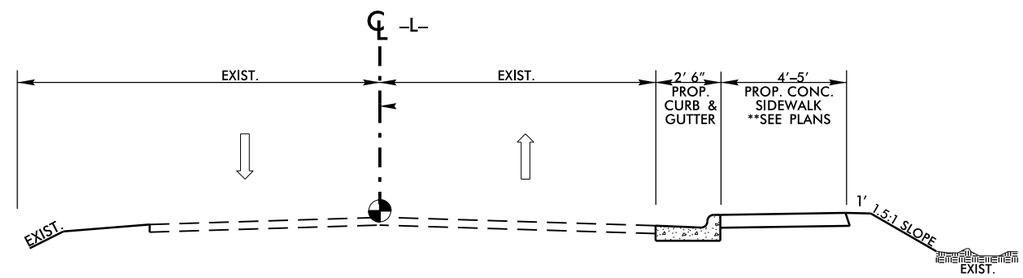

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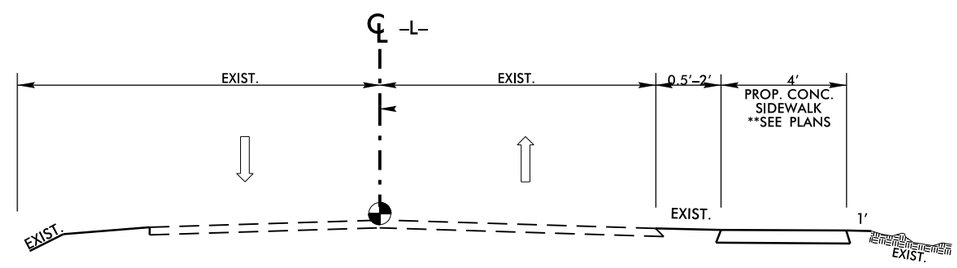

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mgar

COMPUTED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____

PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	3A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUB–REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300–5".

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
12+31.00	RT	1		2751.35	2748.35														
		1	1A		2748.35	2746.27													
13+89.00	RT	2		2746.93	2743.93														
		2	2A		2743.93	2743.18													
17+04.00	RT	3		2737.59	2734.59														
		3	3A		2734.59	2731.70													
18+60.74	RT	4	4A		2730.25	2730.24							10						
21+10.00	RT	5		2727.46	2724.46														
		5	5A		2724.46	2722.68													
22+30.00	RT	6		2724.44	2722.11														
		6	6A		2722.11	2721.81				15									
27+47.32	RT	7		2713.80	2711.72														
		7	7A		2711.72	2711.60													
26+91.00	RT	7A		2713.82	2711.60														
		7A	7B		2711.60	2711.50													
31+61.34	RT	8		2711.20	2708.20														
		8	8A		2708.20	2707.00													
					TOTAL:					15			10						

STATION / SIZE / THICKNESS OR GAUGE	C.S. PIPE 12"	15"	18"	24"	36"	42"	48"	R.C. PIPE (CLASS III) 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS IV) 12"	15"	18"	24"	30"	36"	42"	48"
	.064	.064	.064	.064	.079	.109	.109																
12+31.00																							
		25																					
13+89.00																							
		48																					
17+04.00																							
		3																					
18+60.74																							
21+10.00																							
		13																					
22+30.00																							
27+47.32																							
									49														
26+91.00																							
								6															
31+61.34																							
		12																					
		101						6	49														

STATION / SIZE / THICKNESS OR GAUGE	*** R.C. PIPE (CLASS V)	*** R.C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	*** R.C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. B') LIN. *FT. PER EACH (0' THRU 5.0')	A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION CATCH BASIN	DROP INLET	C.B. STD. 840.01 OR STD. 840.02	C.B. STD. 840.04 OR 840.05	G.D.I. FRAME WITH TWO GRATES STD. 840.22	FRAME, GRATES, AND HOOD STD. 840.03	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
12+31.00																		1			1								TYPE "F" GRATE
13+89.00																		1			1								TYPE "F" GRATE
17+04.00																		1			1								TYPE "F" GRATE
18+60.74																													
21+10.00																		1			1								TYPE "F" GRATE
22+30.00																			1										
27+47.32																			1										
26+91.00																			1										
31+61.34																		1			1								TYPE "F" GRATE
																		5	3		5								

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

4/04/06
09-MAY-2018 12:20
CHRISTOPHER
C:\pwworking\ct\d0468031\pipes\plott creek sidewalk work\dgn\pipes\plott creek_Hyd_PSH.dgn

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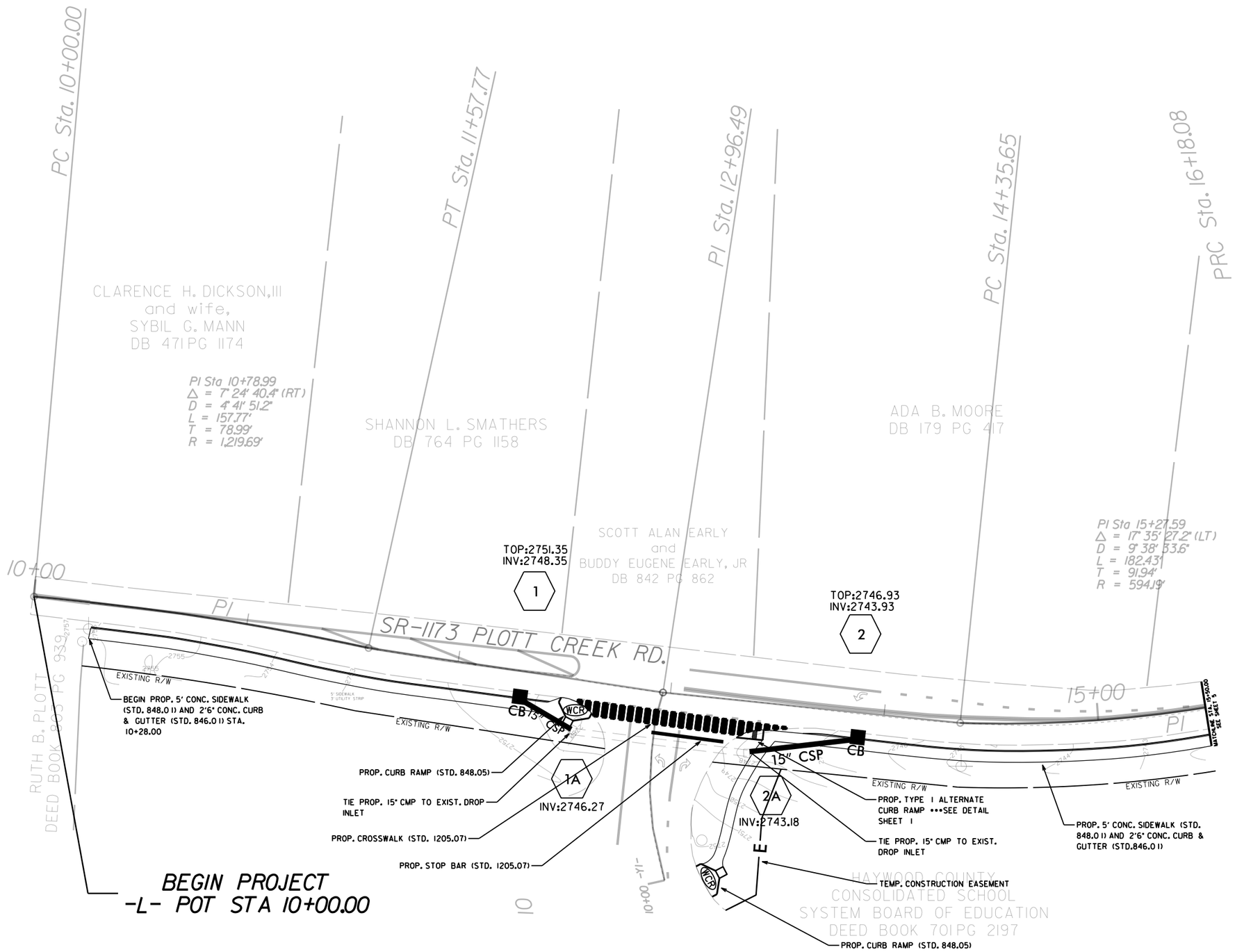
WBS: 47315.3.1	4



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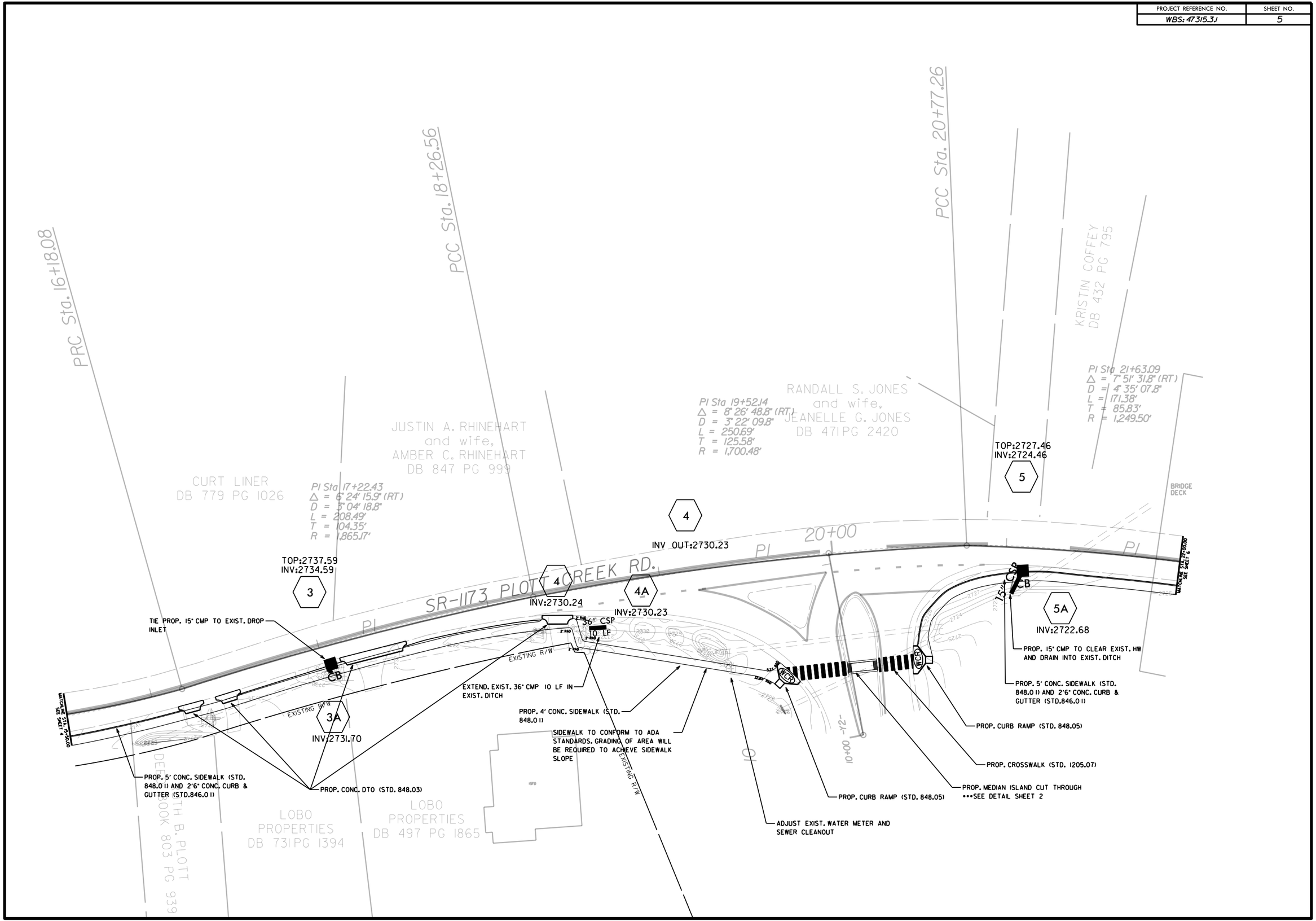

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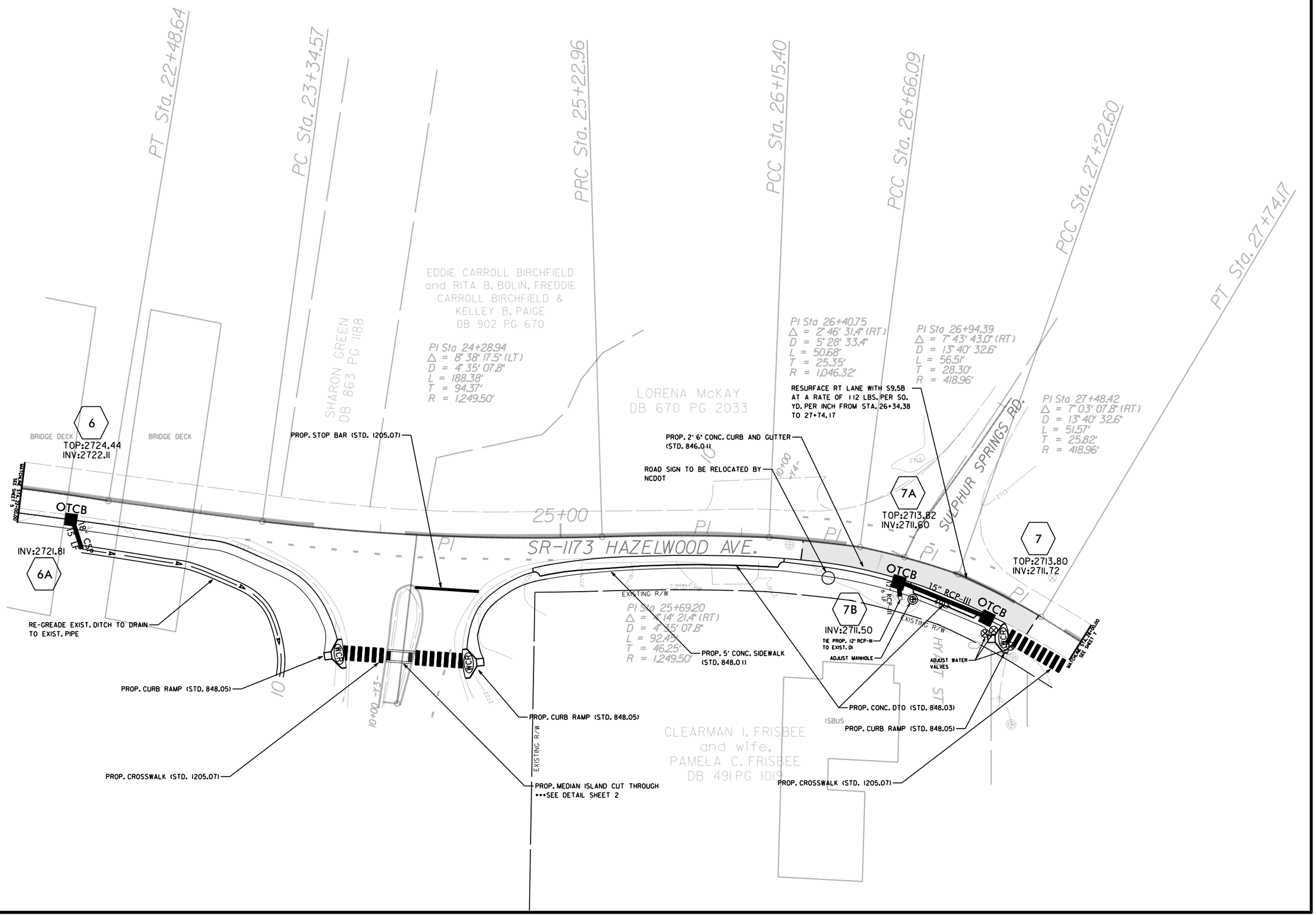

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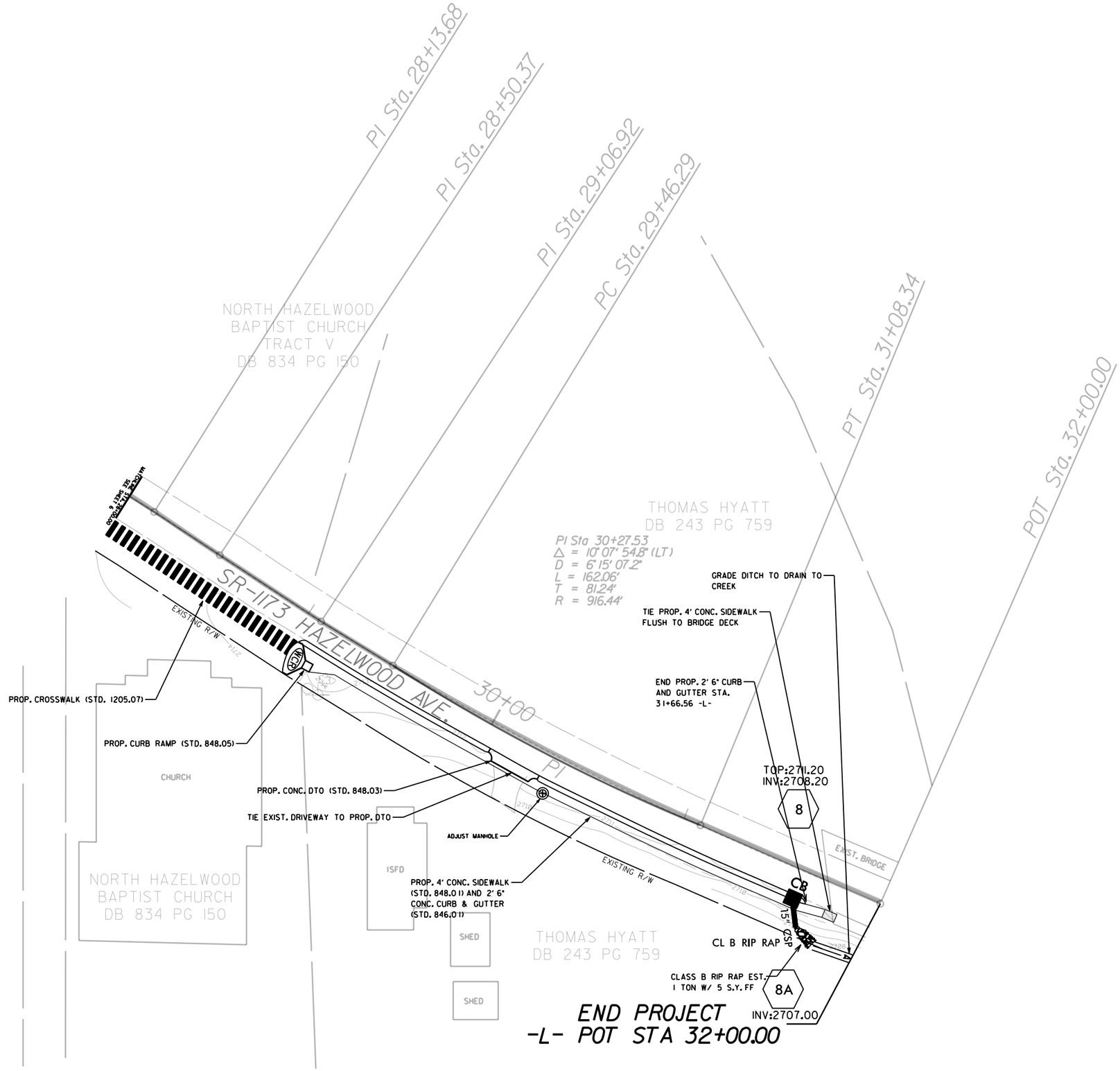

5/14/99

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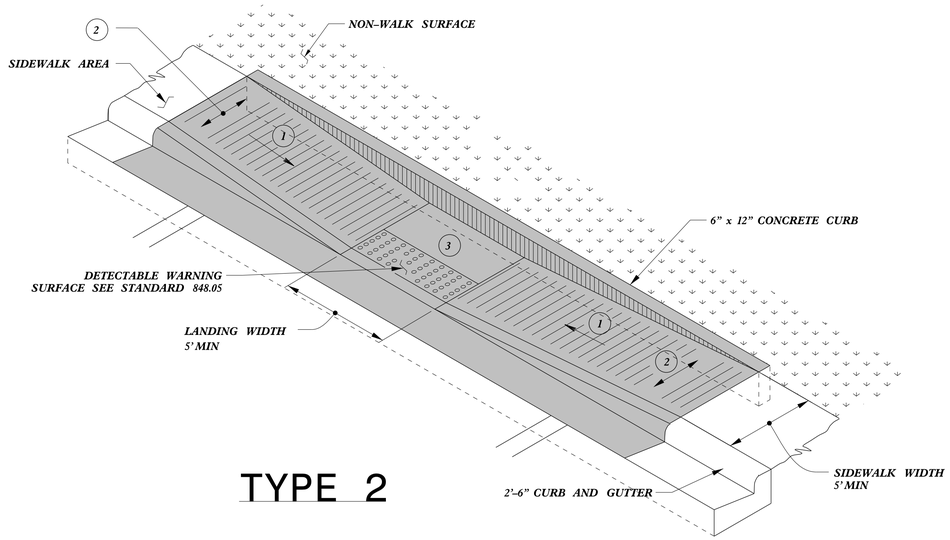
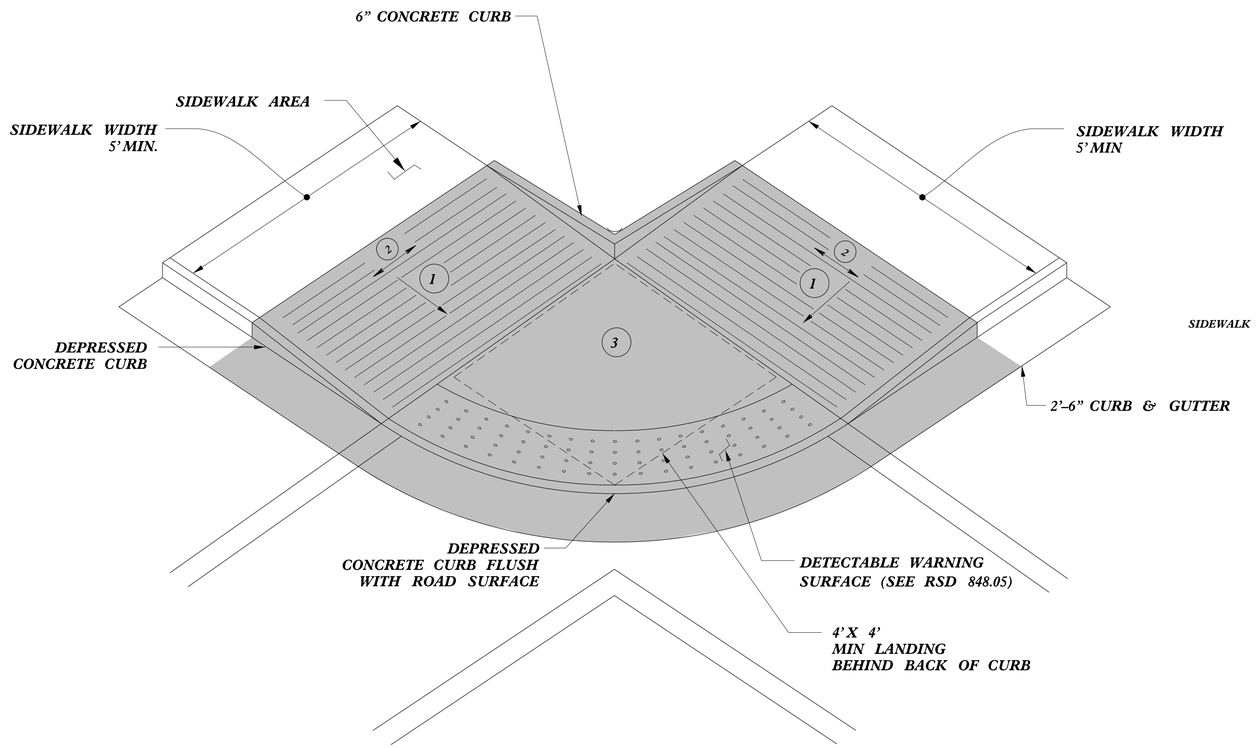
47315.3.1	DS1



TYPE 2

PAY LIMITS FOR 1 CURB RAMP

1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00%
3. CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



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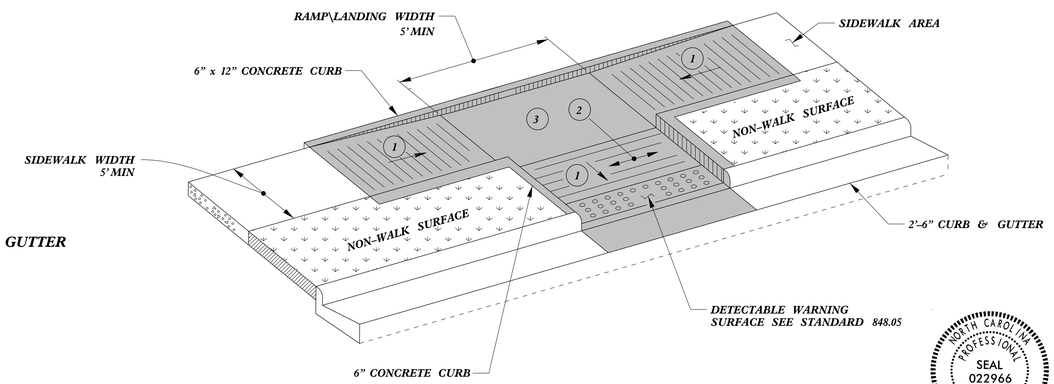


TYPE 3

NORTH CAROLINA PROFESSIONAL SEAL 022966 ENGINEER Digitally signed by Joshua S. Howerton
7/6/2018

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

Parallel Ramps

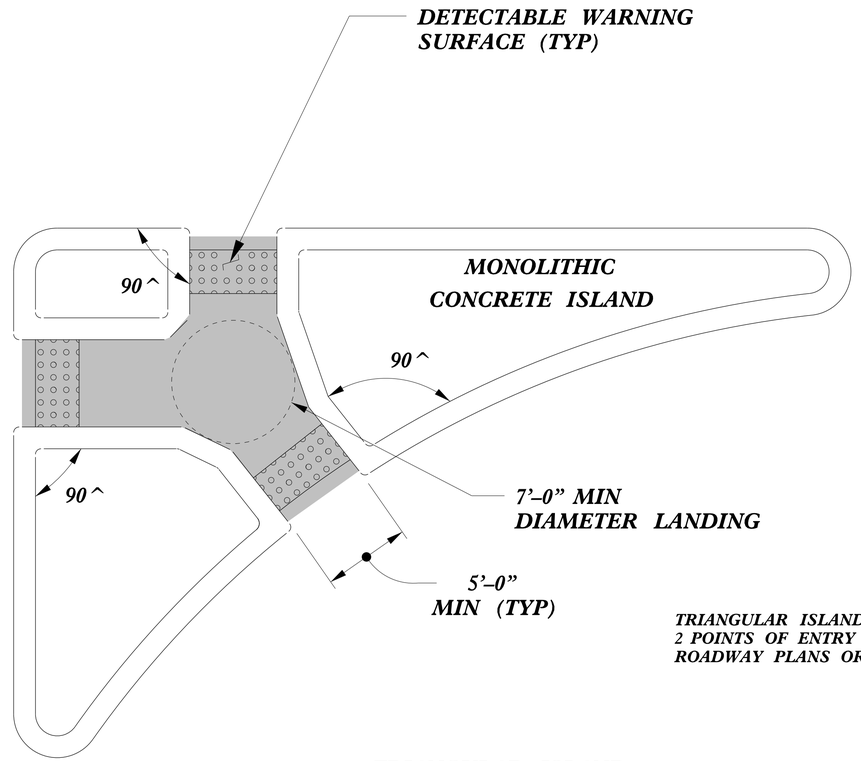
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: stds/2012CurbRamp/CurbRampDetails.dgn

$$$$SYSTIME$$$$
$$$$SYSTIME$$$$
$$$$USERNAME$$$$

5/14/99

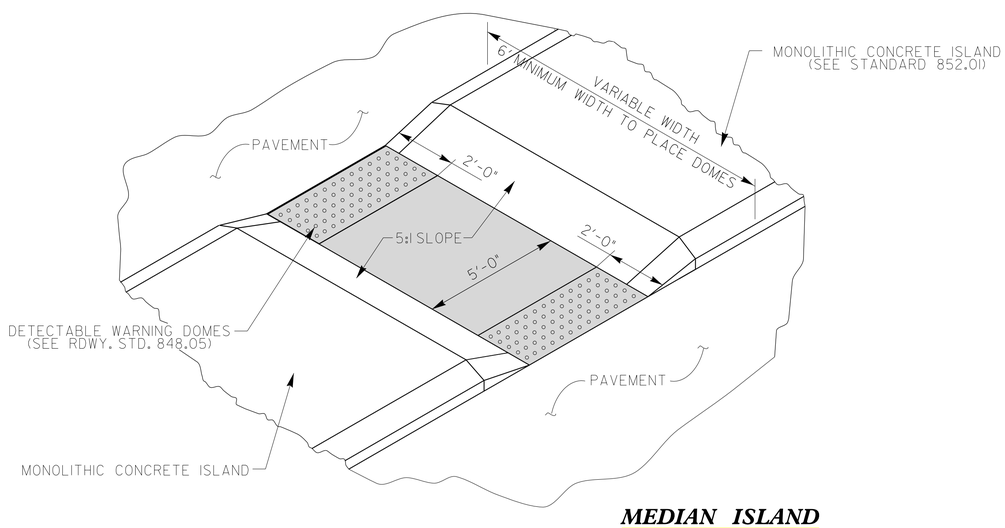
PROJECT REFERENCE NO.	SHEET NO.
47315.3.1	DS2

PAY LIMITS FOR 2 OR 3 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF TRUNCATED DOMES)

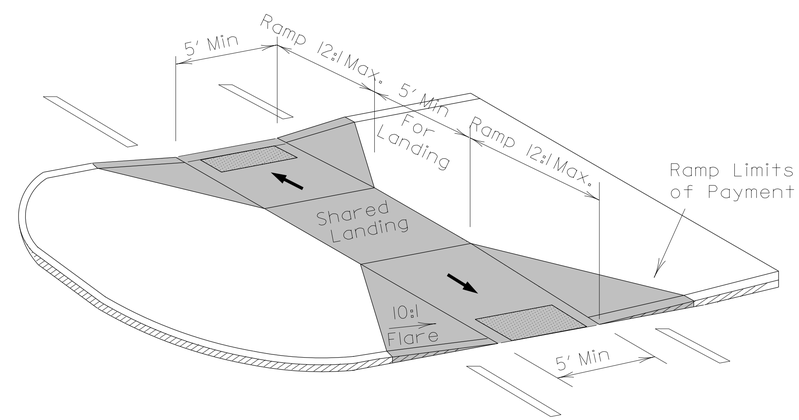


TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

TRIANGULAR ISLAND WITH CUT THROUGH



MEDIAN ISLAND WITH CUT THROUGH



MEDIAN ISLAND CURB RAMPS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 022961 ENGINEER Jose S. Howerton

7/6/2018

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

Median or Turn Lane Islands

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC. :stds/2012CurbRamp/CurbRampDetails.dgn

$$$$SYSTEM$$$$
$$$$SCALE$$$$
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	PM-1

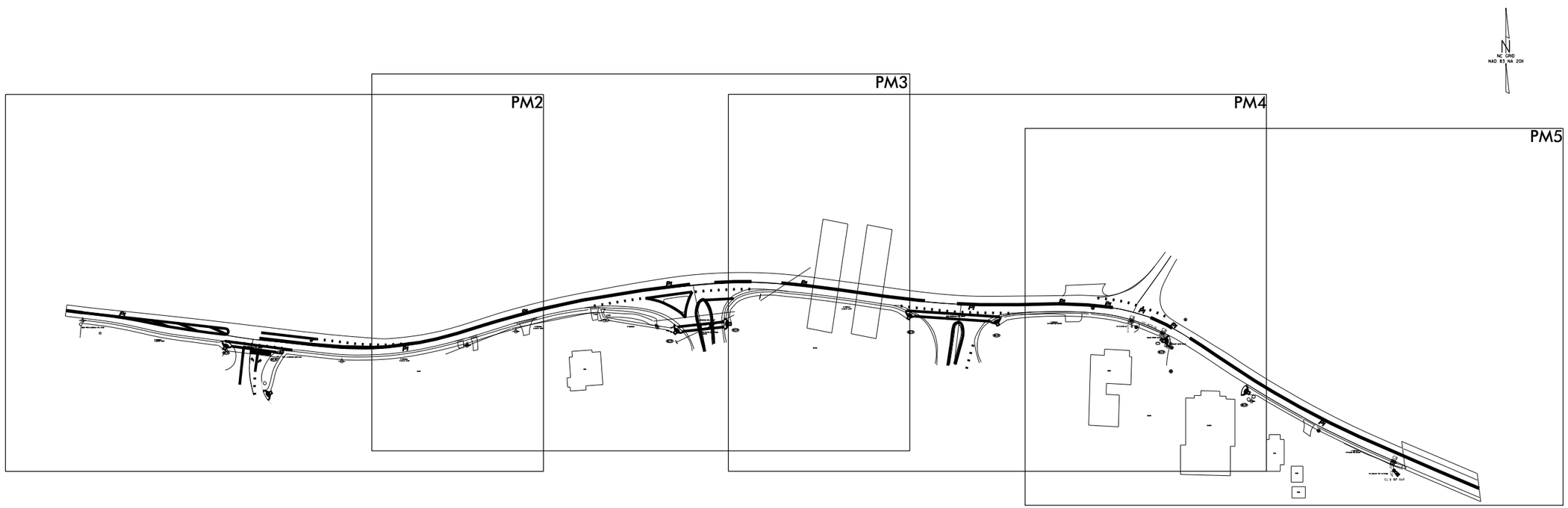
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT MARKING PLAN

HAYWOOD COUNTY

LOCATION: ALONG NC SR-1173 PLOTT CREEK RD. AND HAZELWOOD AVE

TYPE OF WORK: SIDEWALK, CURB AND GUTTER AND DRAINAGE



ROADWAY STANDARD DRAWINGS

2018 ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" - Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C., dated January 16, 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

STD. NO.	TITLE
1205.01	Pavement Markings - Line Types and Offsets
1205.07	Pavement Markings - Pedestrian Crosswalks

INDEX

PM-1	PAVEMENT MARKING PLAN TITLE SHEET
PM2-PM5	PAVEMENT MARKING DETAILS

PAVEMENT MARKING SCHEDULE

24" WHITE CROSSWALK LINES-CW1

24" WHITE STOP BAR- SB1

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR AS DIRECTED BY THE ENGINEER.

A) INSTALL PAVEMENT MARKINGS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
NC SR-1173 PLOTT CREEK RD. AND HAZELWOOD AVE	THERMOPLASTIC	

PLACE ONE (1) APPLICATION OF THERMOPLASTIC PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE.

B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES

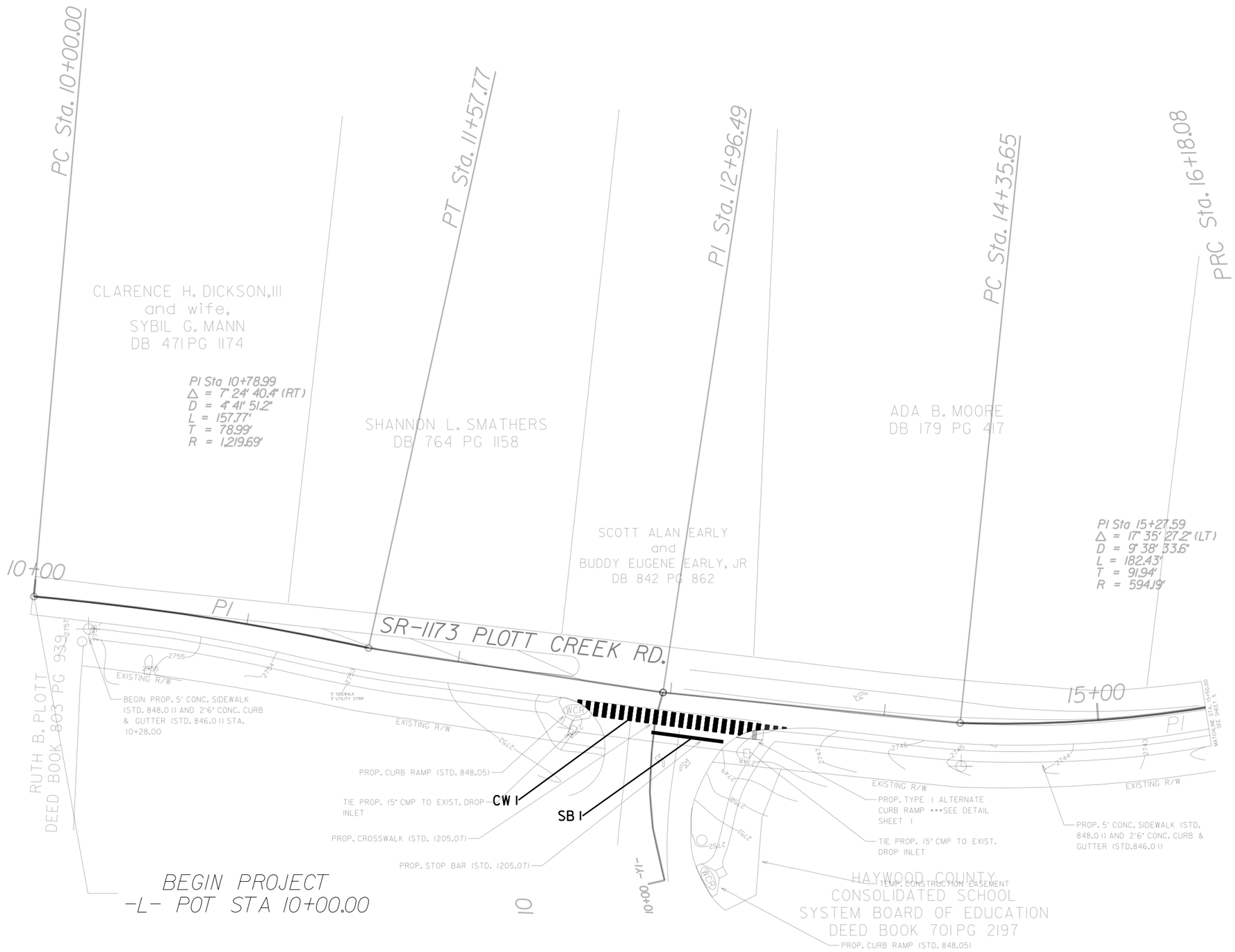
C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

WBS ELEMENT:47315.3.1

CONTRACT: DN00611

09/08/99
28-JUN-2018 08:28
C:\Users\mcorr\Desktop\plott creek sidewalk\PLOTT CREEK FINAL PDF - Copy\plott creek sidewalk work\dgn\paint\plottcreekcrosswalk_Sgn_PMP.dgn
mcorr AT DIV14-304603L

PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	PM2



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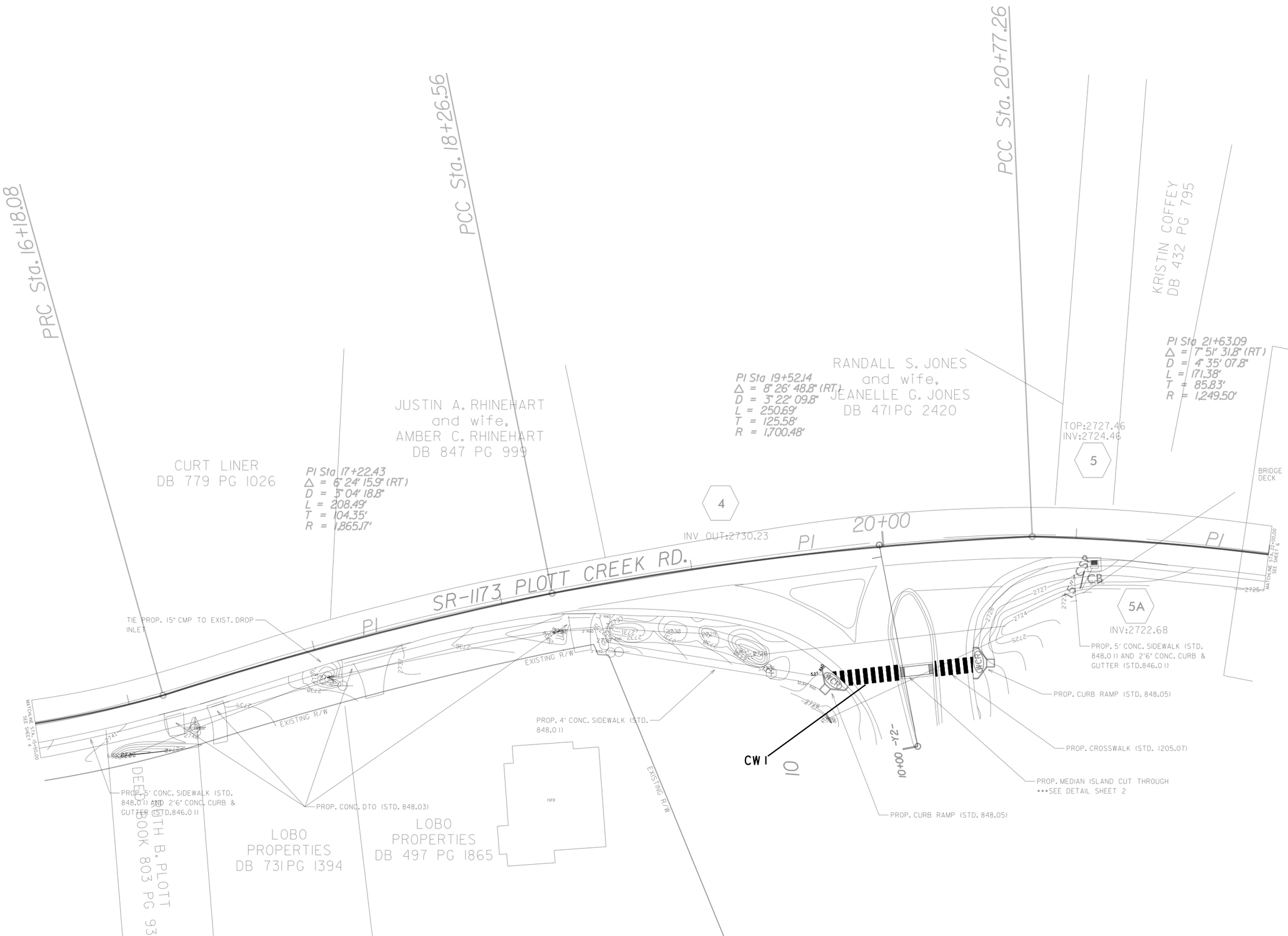

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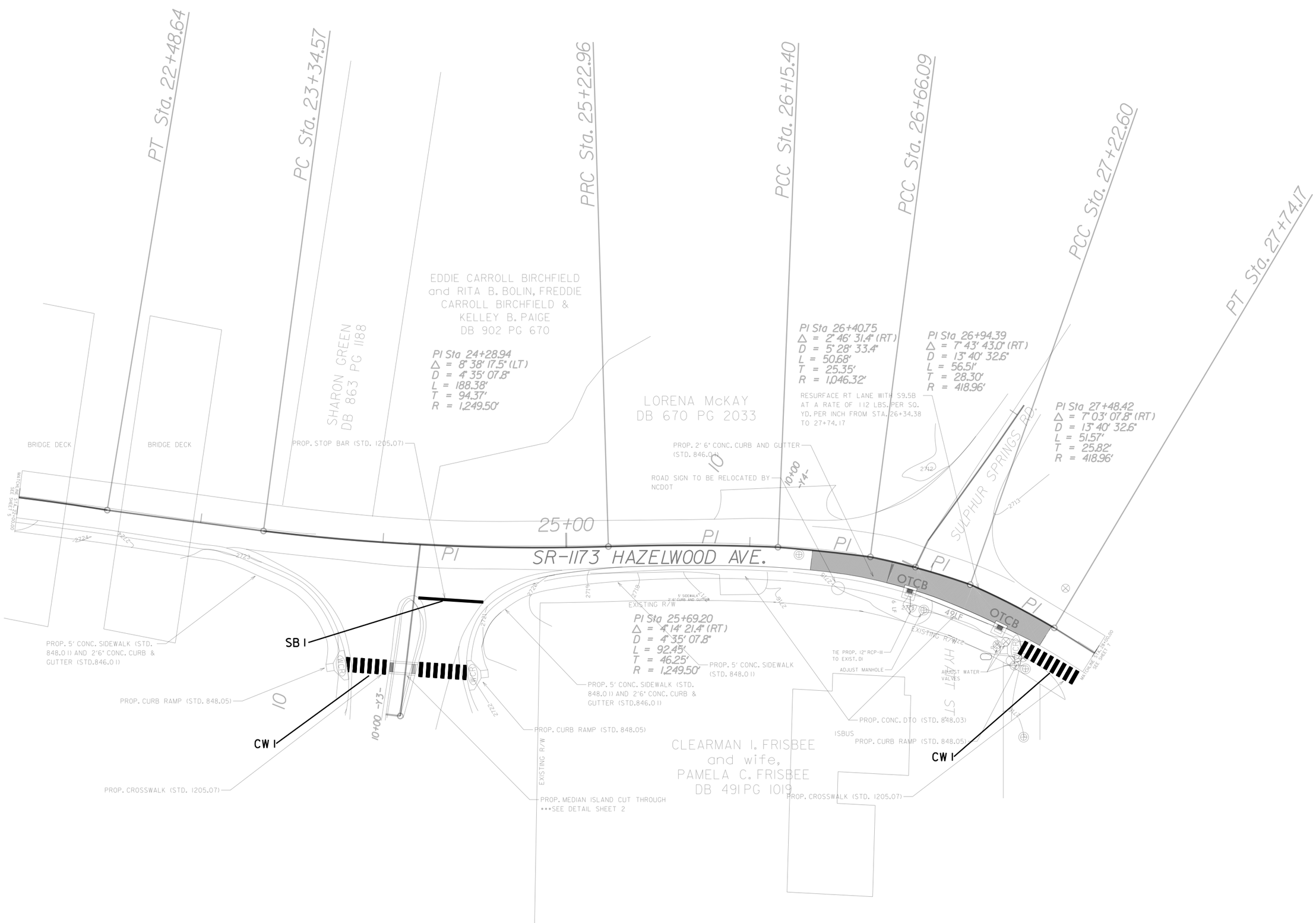

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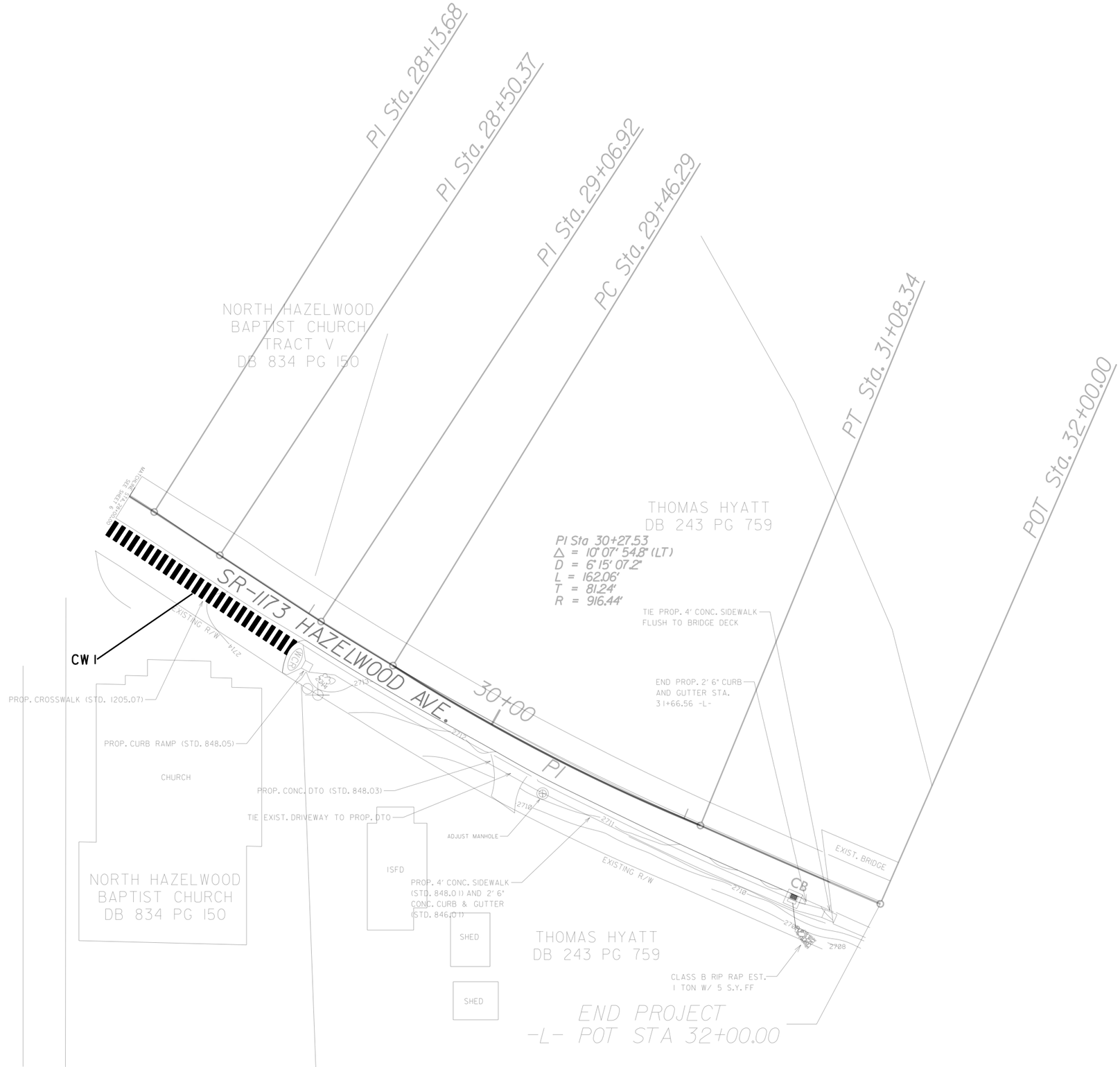


WBS ELEMENT: 47315.3.1

CONTRACT: DN00611

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

PLAN FOR PROPOSED

HIGHWAY EROSION CONTROL

HAYWOOD COUNTY

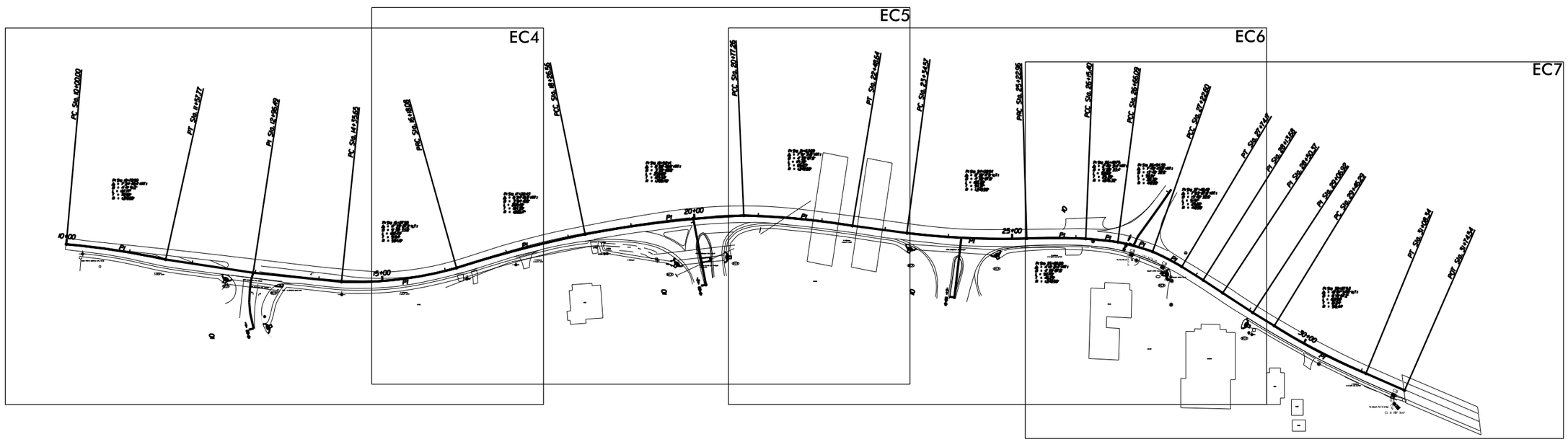
LOCATION: ALONG NC SR–1173 PLOTT CREEK RD. AND HAZELWOOD AVE

TYPE OF WORK: SIDEWALK, CURB AND GUTTER AND DRAINAGE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS: 47315.3.1	EC-1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

N
NC GRID
NAD 83 NA 2011



A.R. BROWN

LEVEL III

3771

LEVEL III CERTIFICATE #

DocuSigned by:
Alan Brown
D64EF019B5DF4A6...

GRAPHIC SCALE

25 12.5 0 25 50

PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG–010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

28-JUN-2018 08:36
PLOTT CREEK_FINAL.DGN - Copy\plott creek sidewalk work\dgn\ec\plott creek_EC_dsn.dgn
CHECK SIZE: 36x24IN.

PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	EC-2

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

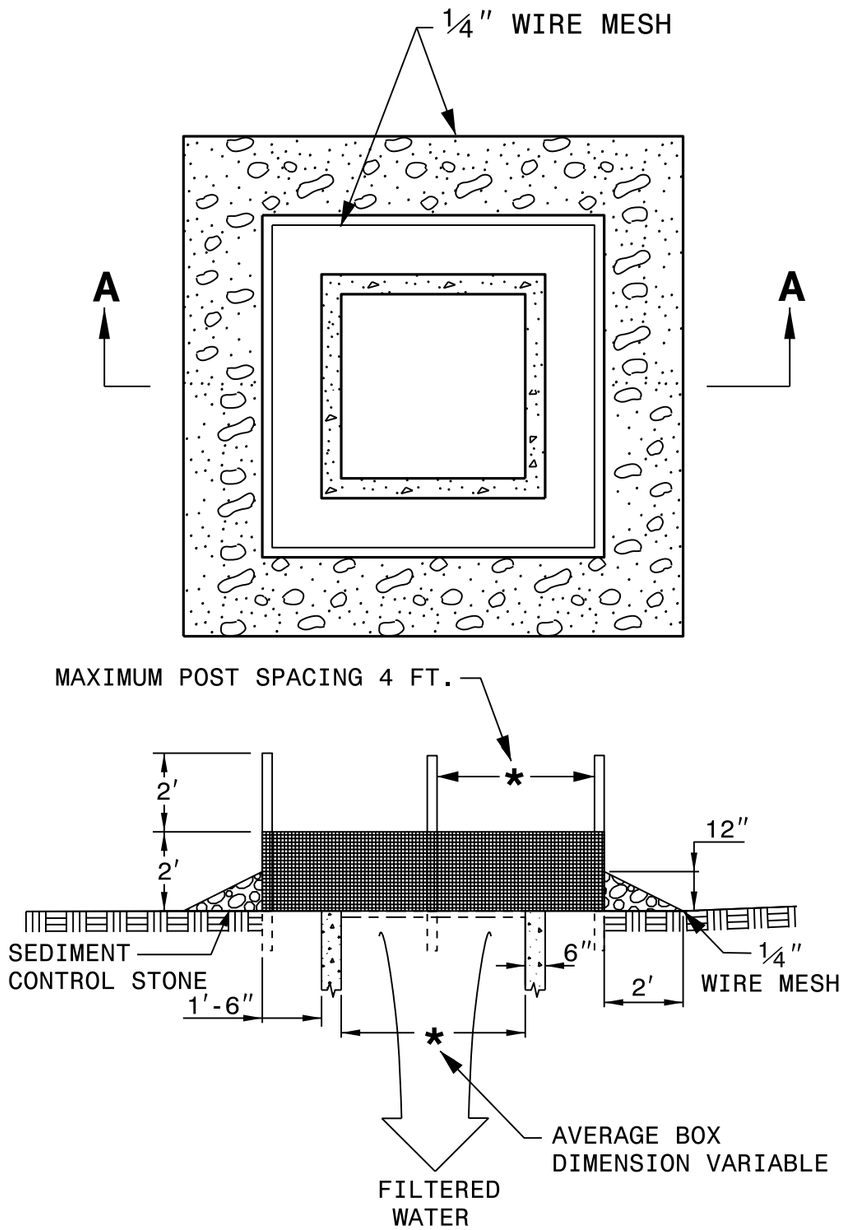
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	EC-3

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

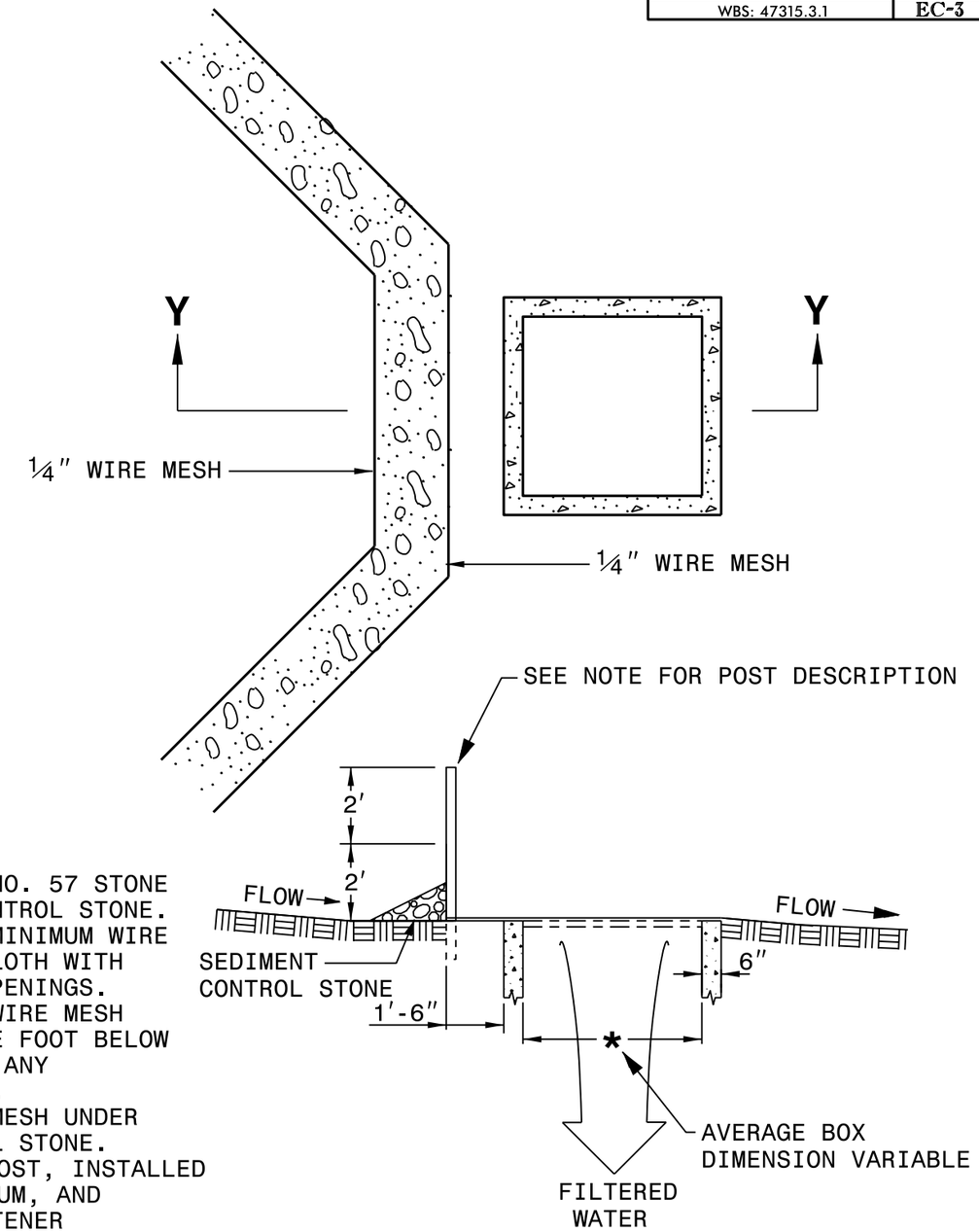
ENGLISH STANDARD DRAWING FOR

ROCK INLET SEDIMENT TRAP TYPE 'C'



SECTION A-A

NOTE
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
USE 24 GAUGE MINIMUM WIRE MESH HARDWARE CLOTH WITH 1/4 INCH MESH OPENINGS.
PLACE TOP OF WIRE MESH A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
INSTALL WIRE MESH UNDER SEDIMENT CONTROL STONE.
USE 5' STEEL POST, INSTALLED 1.5' DEEP MINIMUM, AND OF THE SELF-FASTENER ANGLE STEEL TYPE.
SPACE POST A MAXIMUM OF 4'.



SECTION Y-Y

MULTI-DIRECTIONAL FLOW

SINGLE-DIRECTIONAL FLOW

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR

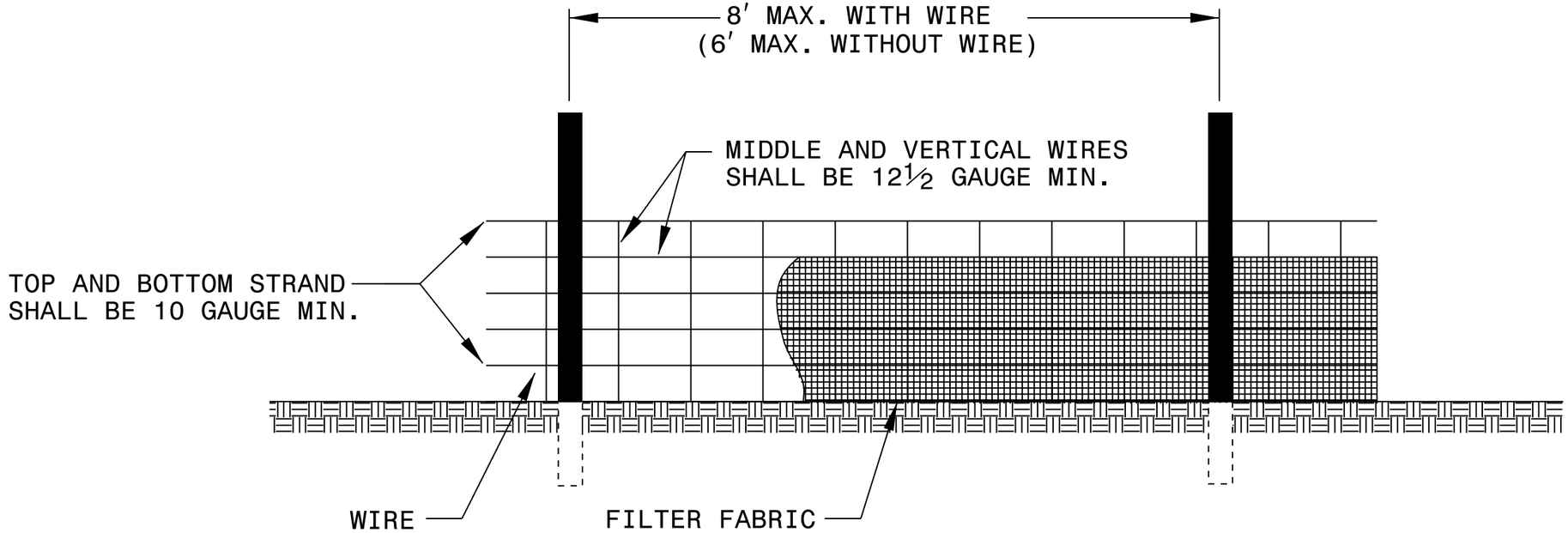
ROCK INLET SEDIMENT TRAP TYPE 'C'

SHEET 3 OF 6
1632.03

PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	EC-3A

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

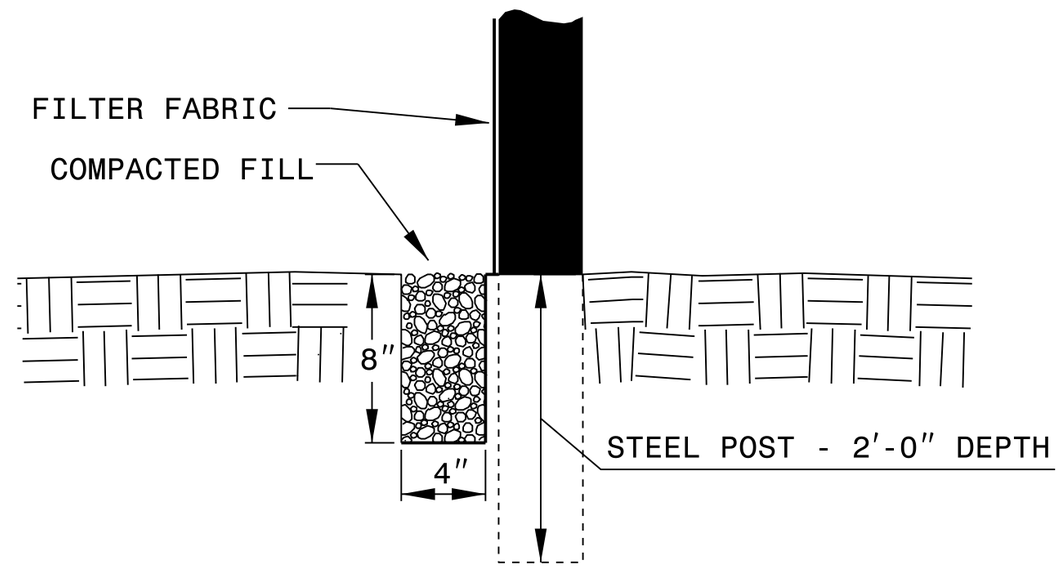


NOTES

USE WIRE A MINIMUM OF 32″ IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12″ STAY SPACING.

USE FILTER FABRIC A MINIMUM OF 36″ IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.

PROVIDE 5′-0″ STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



EXTENSION OF FABRIC AND
WIRE INTO TRENCH

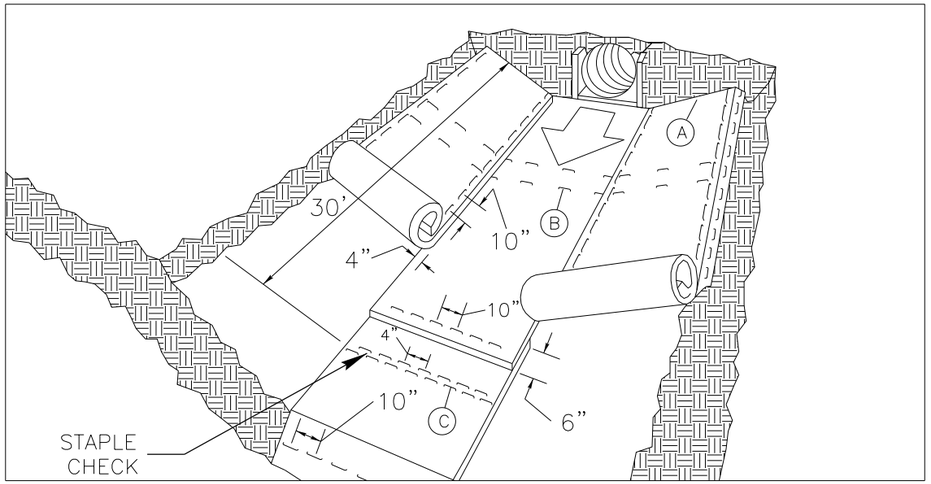
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

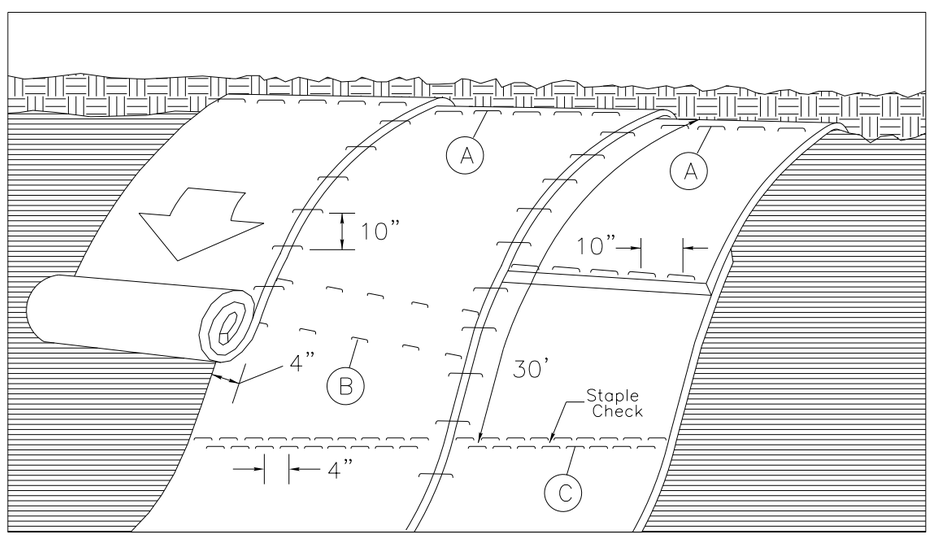
SHEET 5 OF 6
1605.01

PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	EC-3B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATTING INSTALLATION DETAIL



MATTING IN DITCHES



MATTING ON SLOPES

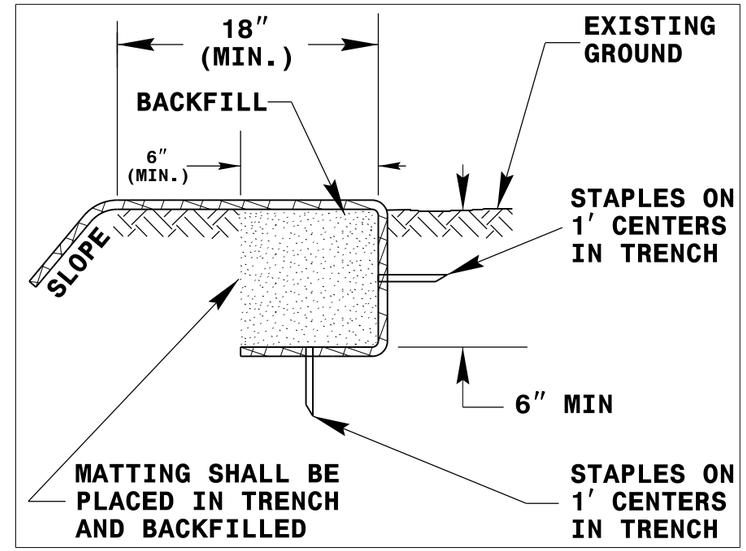


DIAGRAM A

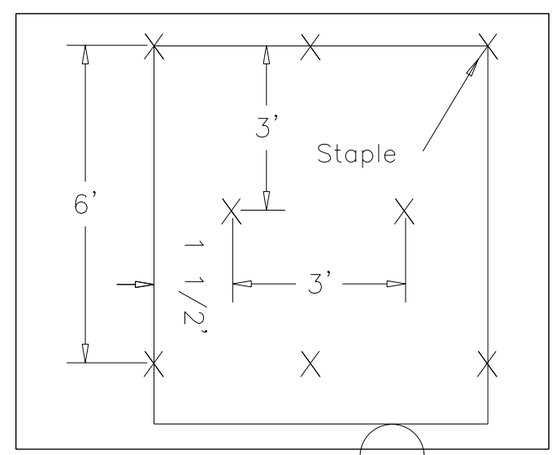


DIAGRAM B

Staple Check Pattern

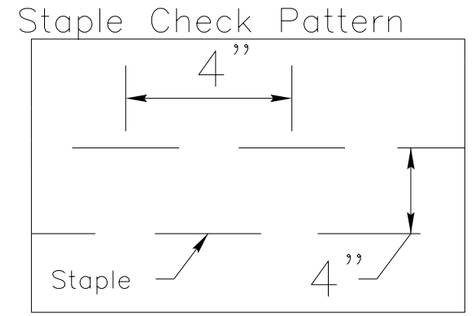


DIAGRAM C

NOTES:

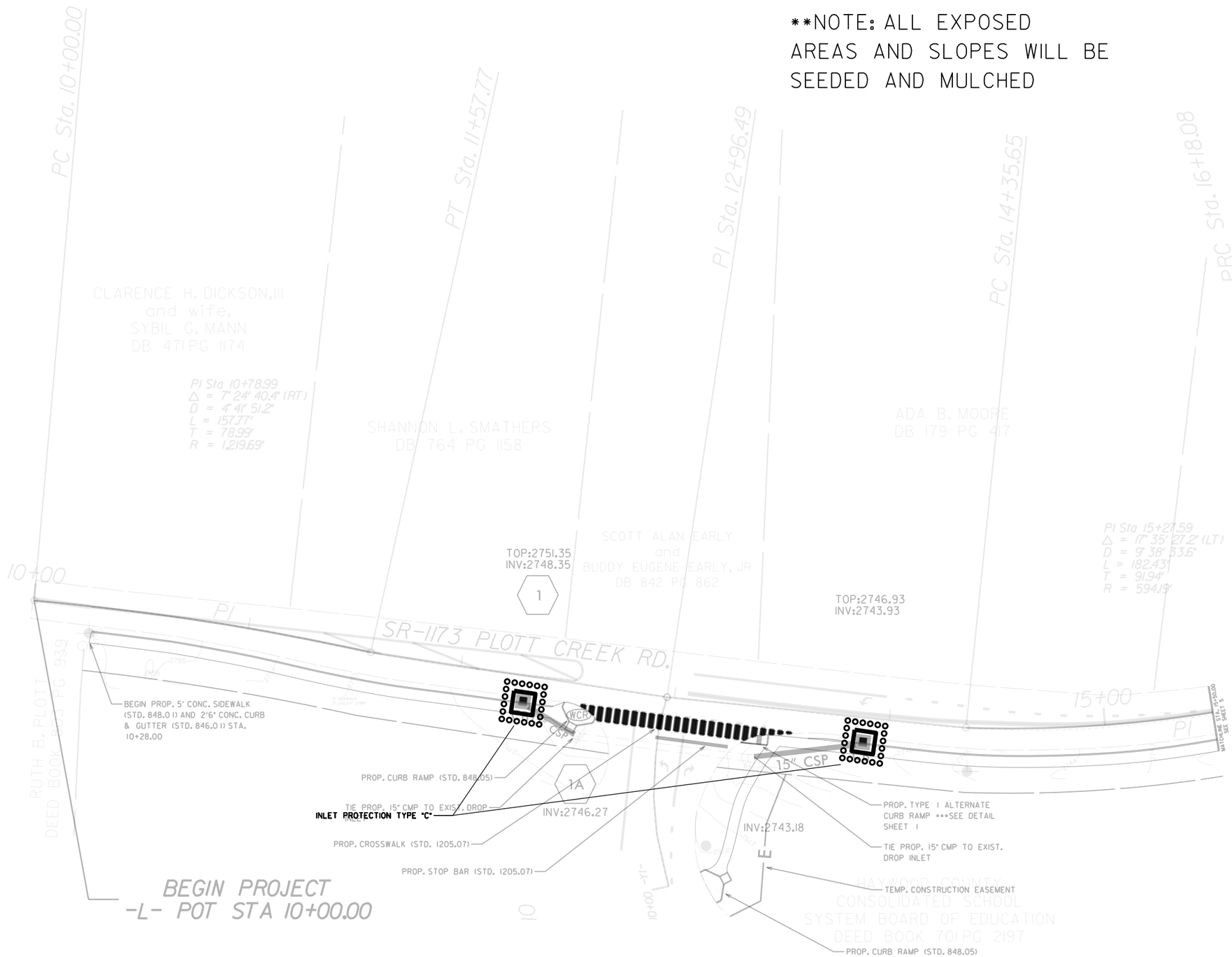
THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

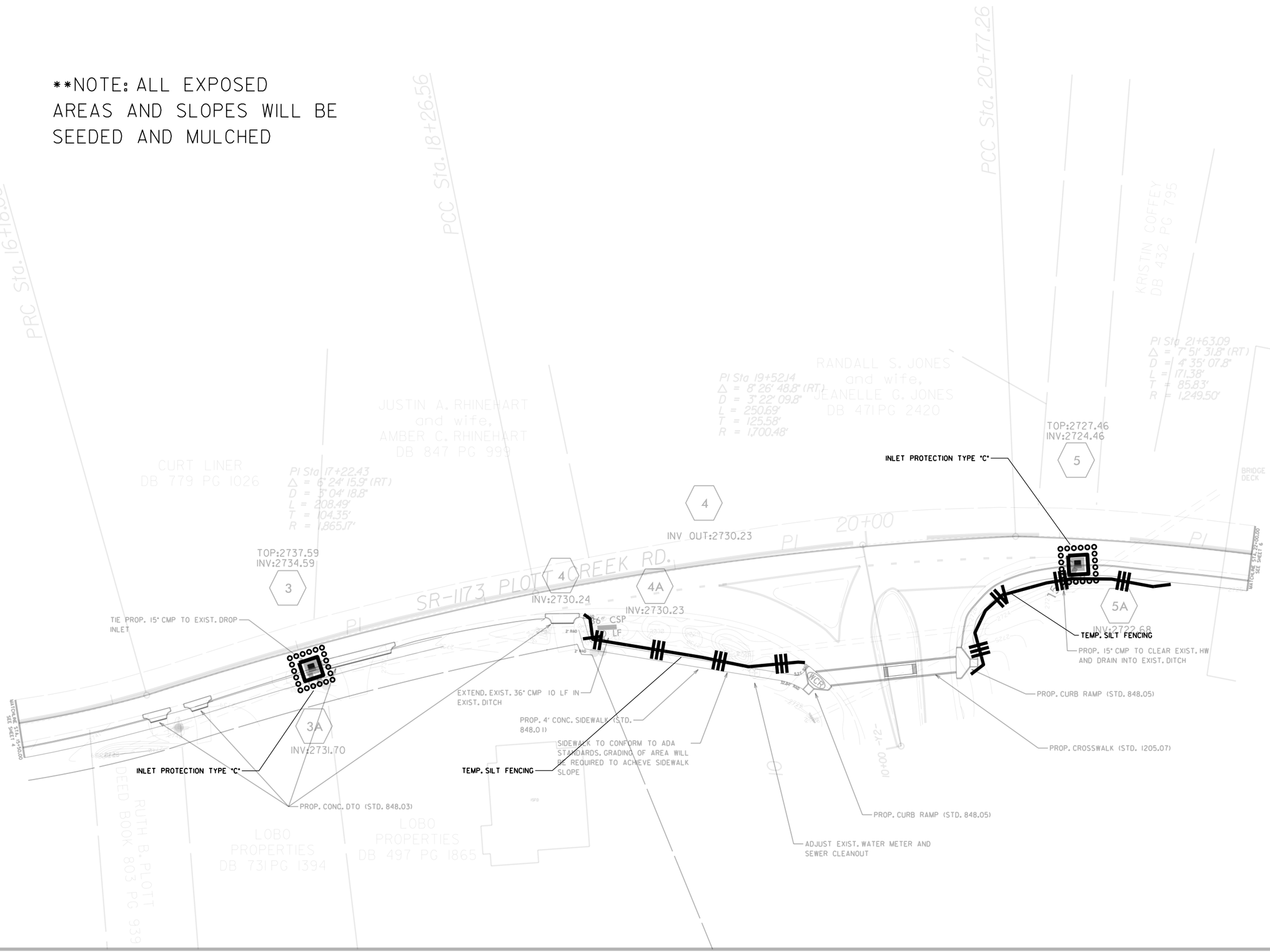
PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	EC4

**NOTE: ALL EXPOSED AREAS AND SLOPES WILL BE SEEDED AND MULCHED

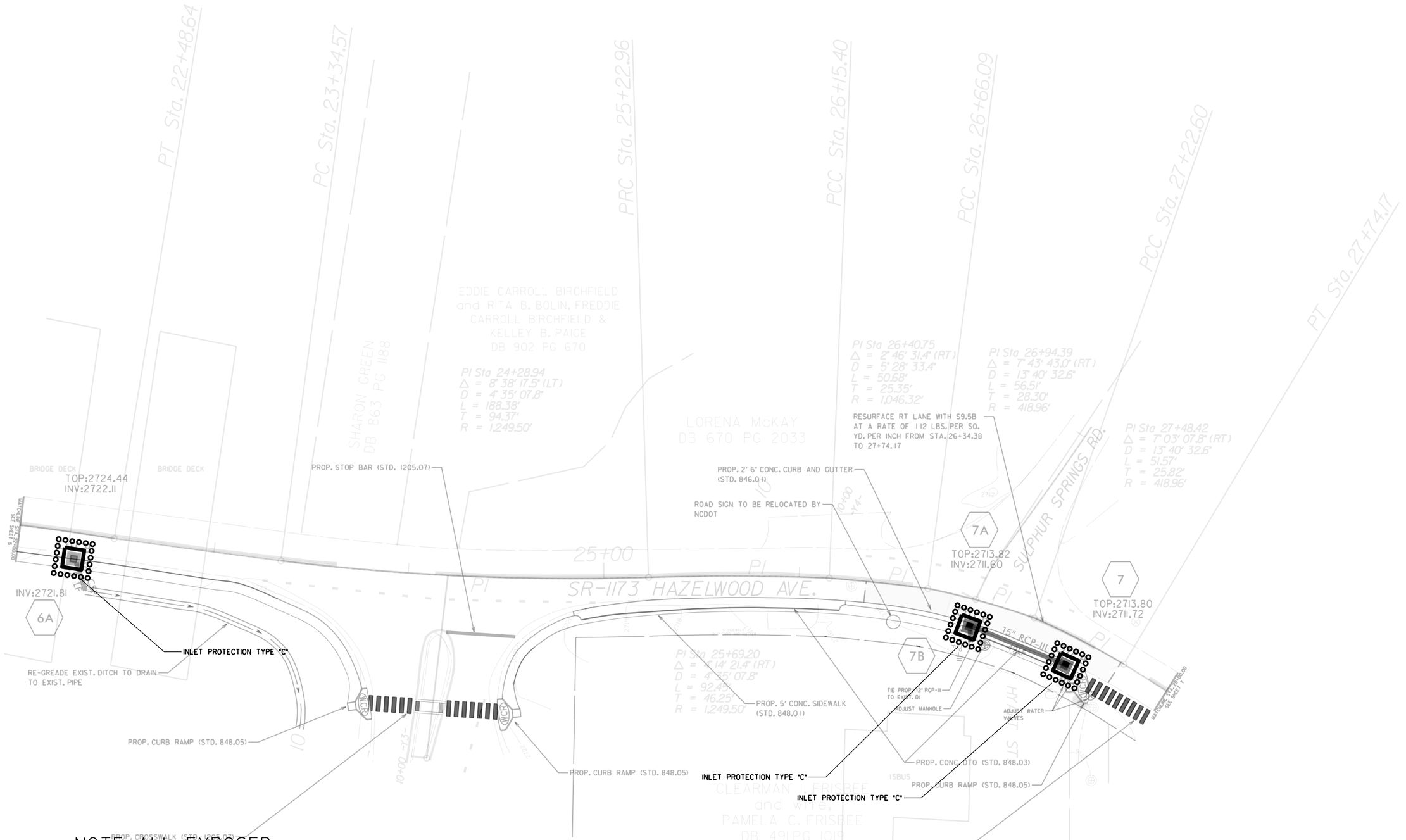


PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	EC5

**NOTE: ALL EXPOSED AREAS AND SLOPES WILL BE SEEDED AND MULCHED



PROJECT REFERENCE NO.	SHEET NO.
WBS: 47315.3.1	EC6



**NOTE: ALL EXPOSED AREAS AND SLOPES WILL BE SEEDED AND MULCHED

PROJECT REFERENCE NO.	SHEET NO.
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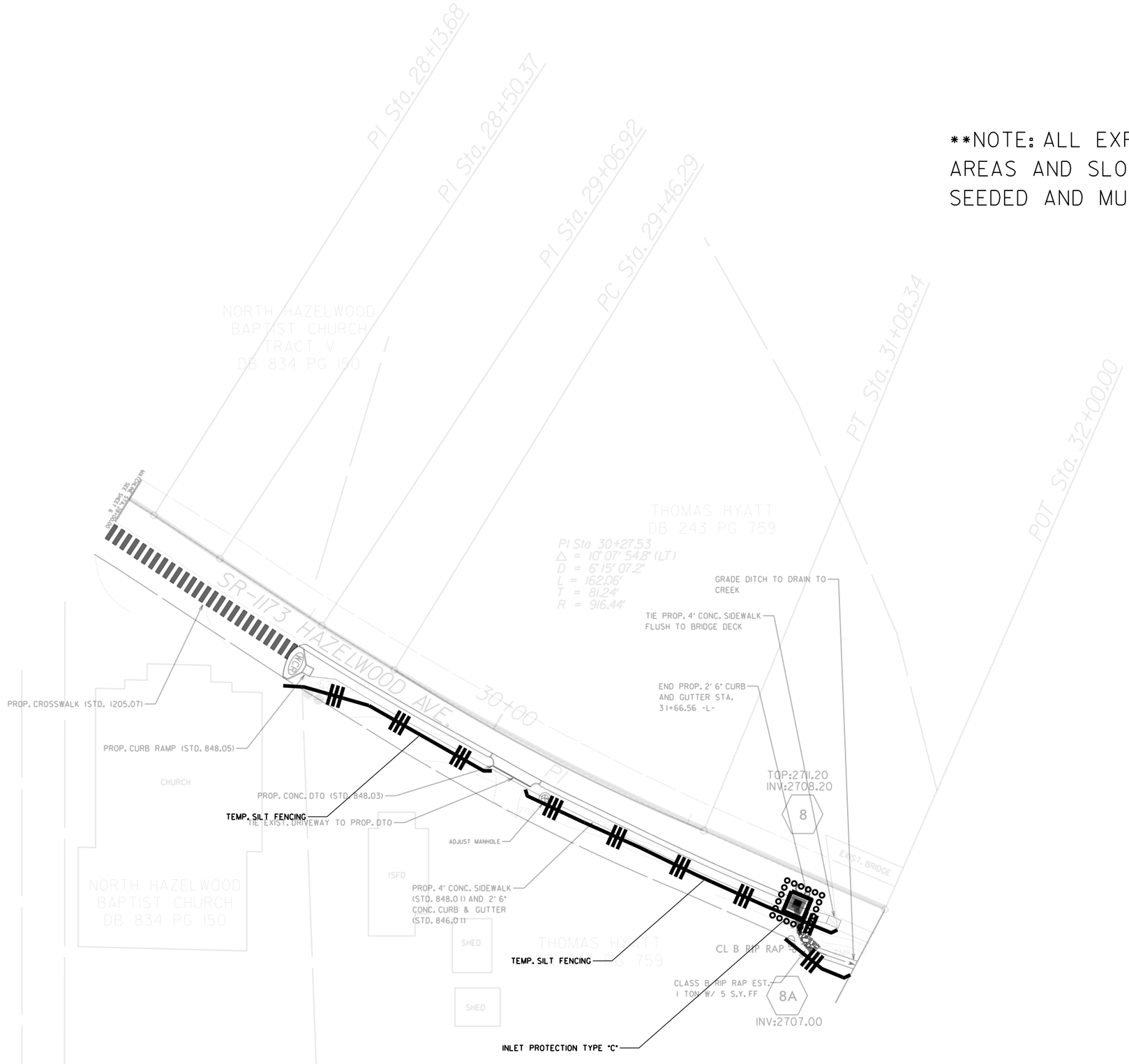
**NOTE: ALL EXPOSED AREAS AND SLOPES WILL BE SEEDED AND MULCHED



Plan sheets, from this point forward, are taken from a design for a nearby culvert replacement project.

The culvert work has been completed by State Forces, but the associated sidewalk and curb & gutter work, are included as a part of this contract. Most sheets will be just for reference, but some sheets will be necessary for the construction of the sidewalk and curb & gutter.

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Note: Pavement edge slopes are 1:1 unless shown otherwise.

* Total shoulder width to be increased 3′ where guardrail is used. Paved shoulder to be 4′ where guardrail is used.

** Culvert length is based on this dimension.

LOUIS BERGER
1001 Wade Avenue, Suite 400
Raleigh, North Carolina 27605
License No.: F-0840

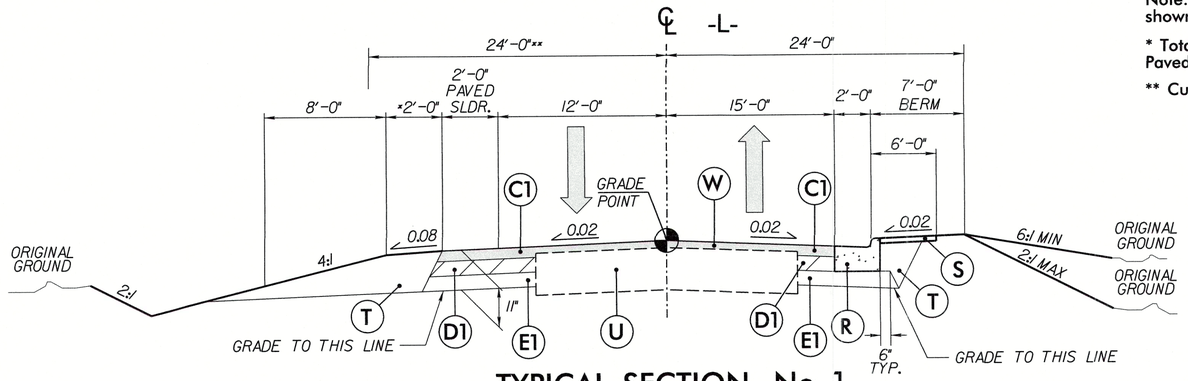
N.T.S.

PROJECT REFERENCE NO.	SHEET NO.
DB14A-430102	2
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL ENGINEER
DocuSigned by: 27933
2/8/2017

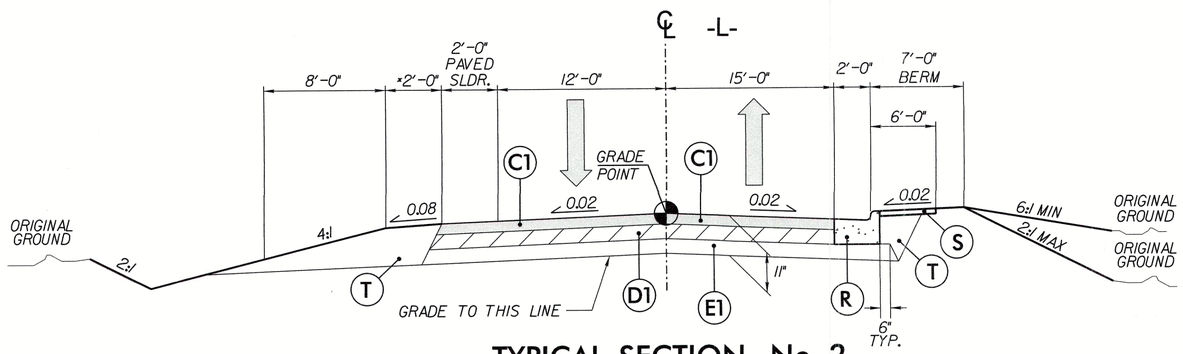
PAVEMENT DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 22886 ENGINEER CLARK S. MORRISON
12/13/16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



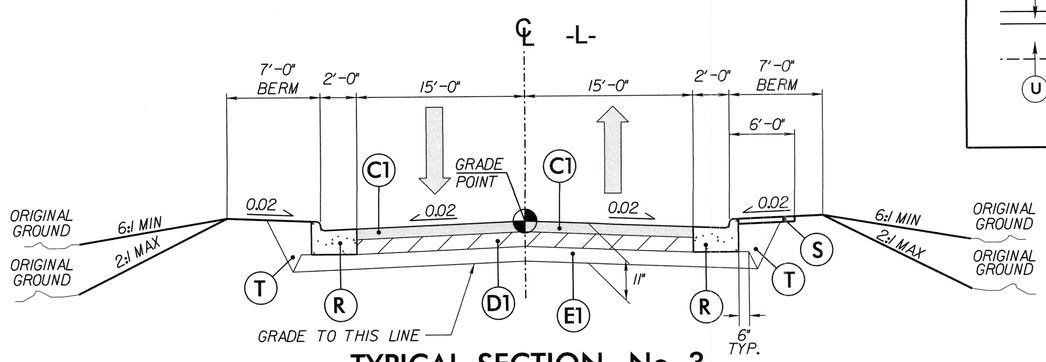
TYPICAL SECTION No. 1

–L– STA 11+45.00 TO –L– STA 12+60.00
–L– STA 13+60.00 TO –L– STA 15+15.00



TYPICAL SECTION No. 2

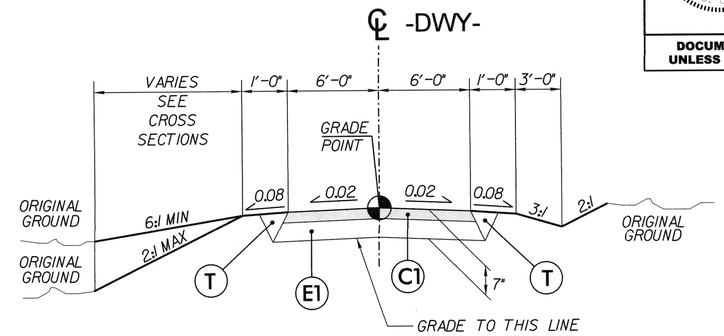
–L– STA 12+60.00 TO –L– STA 13+60.00



TYPICAL SECTION No. 3

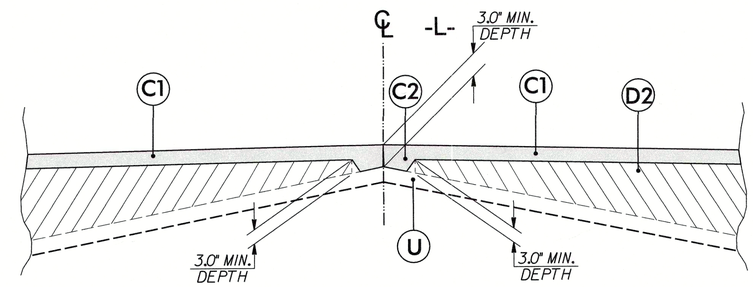
–L– STA 11+45.00 TO –L– STA 15+15.00
(FUTURE CONSTRUCTION)

Note: Length of culvert is based on this typical section.



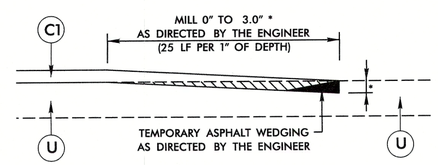
TYPICAL SECTION No. 4

–DWY– STA 10+15.00 TO –DWY– STA 11+54.22



DETAIL SHOWING METHOD OF WEDGING

MILLED BUTT JOINT TIE-IN DETAIL (PROFILE)



* MILL DEPTH AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER

PAVEMENT SCHEDULE

ITEM	DESCRIPTION
C1	Prop. Approx 3" Asphalt Concrete Surface Course, Type SF9.5A, at an Average Rate of 165 lbs. per sq. yard in each of two layers.
C2	Prop. Var. Depth Asphalt Concrete Surface Course, Type SF9.5A, at an Average Rate of 110 lbs. per sq. yard per 1" depth, to be placed in layers not less than 1" nor greater than 1.5" in depth.
D1	Prop. Approx 4" Asphalt Concrete Intermediate Course, Type I19.0B, at an Average Rate of 456 lbs. per sq. yard.
D2	Prop. Var. Depth Asphalt Concrete Intermediate Course, Type I19.0B, at an Average Rate of 114 lbs. per sq. yard per 1" depth, to be placed in layers not less than 2.5" nor greater than 4" in depth.
E1	Prop. Approx 4" Asphalt Concrete Base Course, Type B25.0B, at an Average Rate of 456 lbs. per sq. yard.
E2	Prop. Var. Depth Asphalt Concrete Base Course, Type B25.0B, at an Average Rate of 114 lbs. per sq. yard per 1" depth, to be placed in layers not less than 3" nor greater than 5.5" in depth.
R	Prop. 2′-6" Concrete Curb and Gutter
S	Prop. 4" Concrete Sidewalk
T	Earth Material
U	Existing Pavement
W	Var. Depth Asphalt Pavement

REVISIONS

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CKE_rdy.tbl

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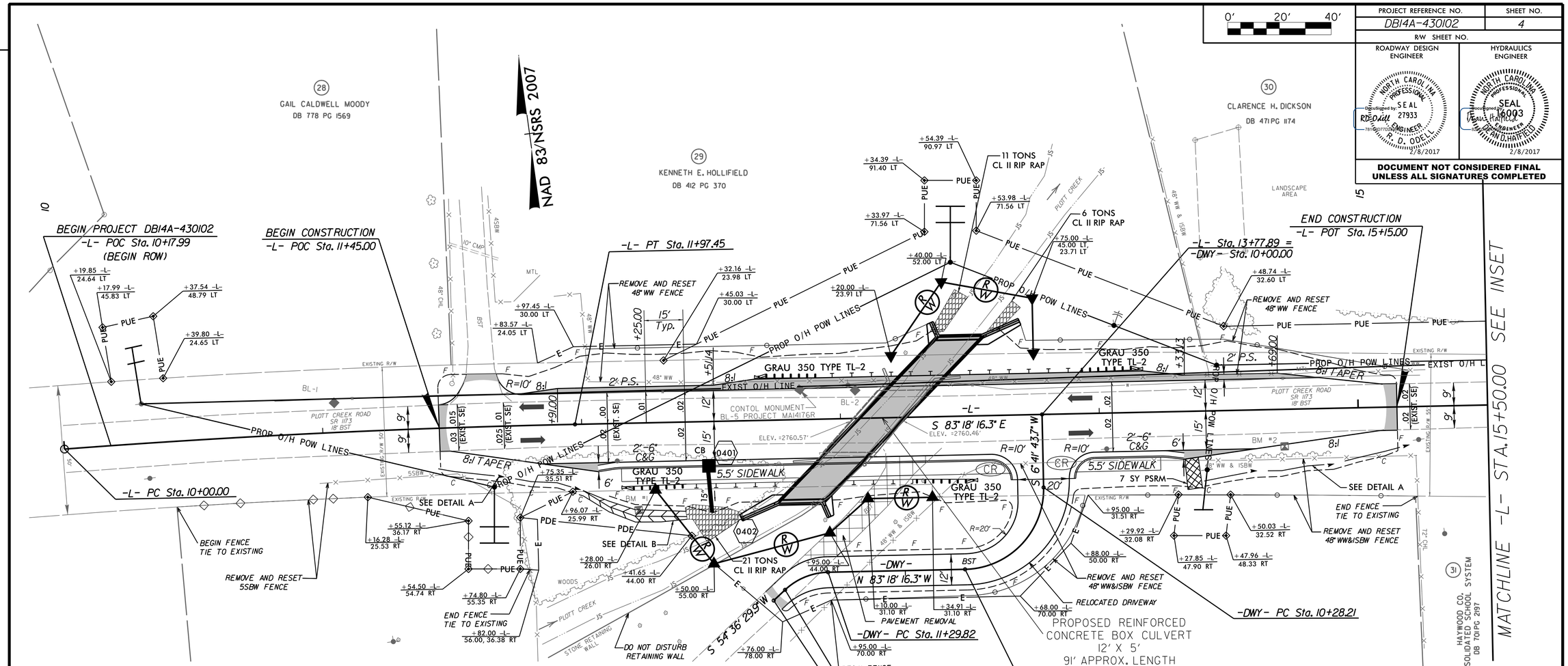
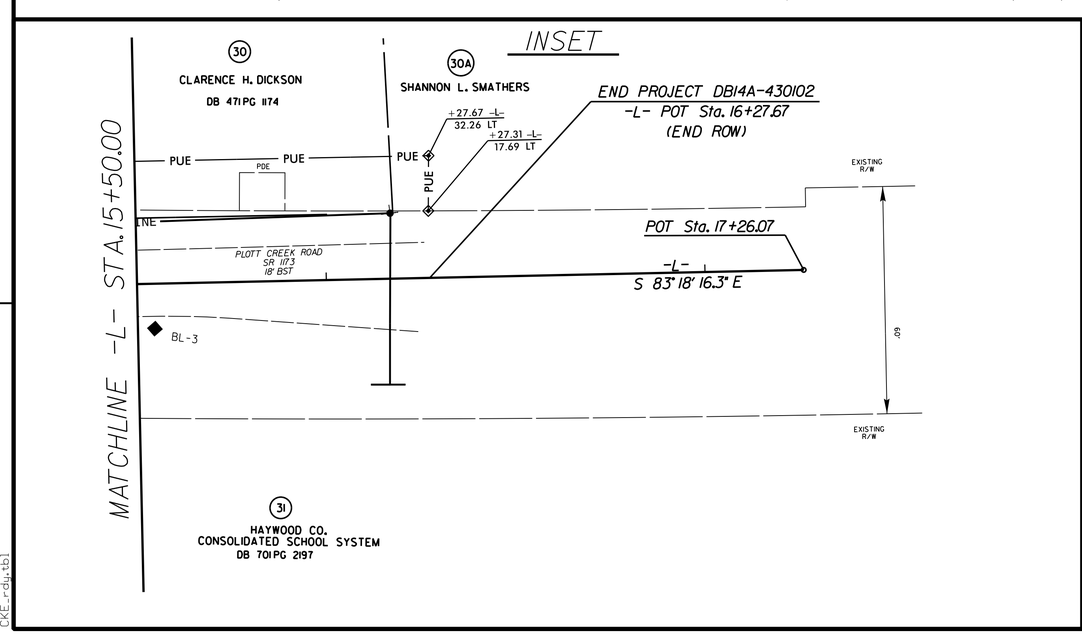
PROJECT REFERENCE NO.	SHEET NO.
DB14A-430102	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 27933 ENGINEER R. D. ODELL — DocuSigned by: RDOdell — 2/8/2017

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 16003 ENGINEER DAVID D. HATFIELD — DocuSigned by: David Hatfield — 2/8/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED





32 RUTH B. PLOTT DB 803 PG 939

CURVE DATA FOR -L-

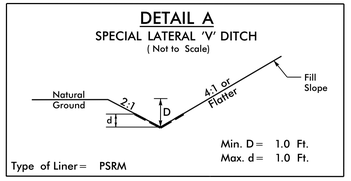
PI Sta 10+98.75
Δ = 3° 06' 54.5" (RT)
D = 1° 34' 39.8"
L = 197.45'
T = 98.75'
R = 3,631.57'
Se = 0.02
RO = EXIST.
DS = 40 MPH

CURVE DATA FOR -DWY-

PI Sta 10+59.21
Δ = 90° 00' 00.0" (RT)
D = 184° 49' 30.3"
L = 48.69'
T = 31.00'
R = 31.00'

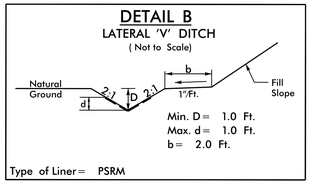
PI Sta 11+39.44
Δ = 42° 05' 13.7" (LT)
D = 229° 10' 59.2"
L = 18.36'
T = 9.62'
R = 25.00'

DETAIL A
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 11+40 TO STA. 12+00 RT

DETAIL B
LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 12+00 TO STA. 12+40 RT

PAVEMENT REMOVAL

SEE SHEET 5 FOR PROFILE
SEE C-1 THRU C-7 FOR CULVERT PLANS

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ROADWAY PLANS

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PROJECT REFERENCE NO.	SHEET NO.
DB14A-430102	5

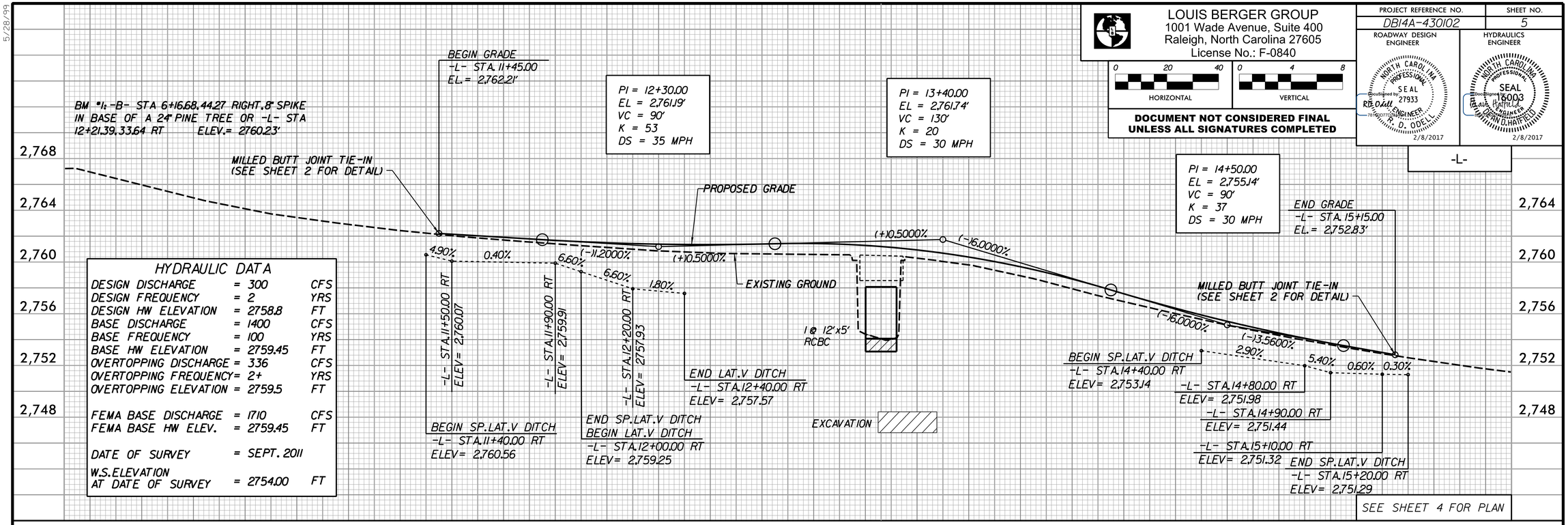
ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 27933 ENGINEER R. D. ODELL — DocuSigned by: R.D. Odell — 2/8/2017

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 16003 ENGINEER DEREK D. HATFIELD — DocuSigned by: Derek D. Hatfield — 2/8/2017

0 20 40 HORIZONTAL; 0 4 8 VERTICAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

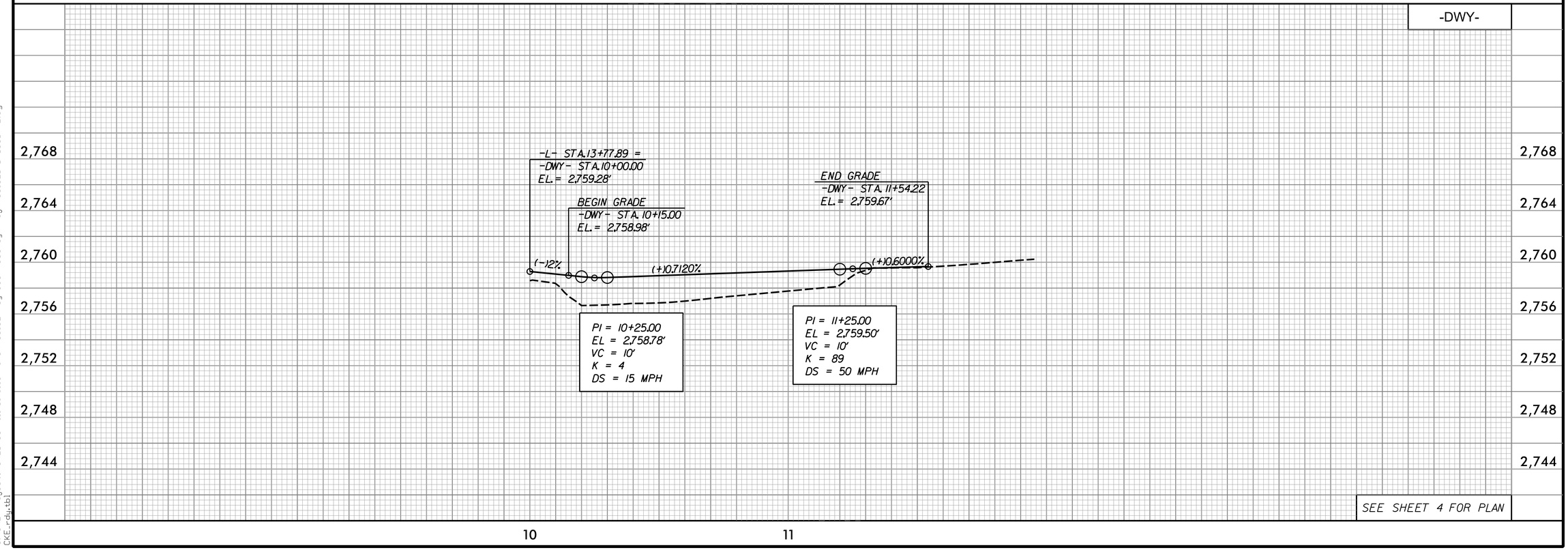
-L-



HYDRAULIC DATA

DESIGN DISCHARGE	= 300	CFS
DESIGN FREQUENCY	= 2	YRS
DESIGN HW ELEVATION	= 2758.8	FT
BASE DISCHARGE	= 1400	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 2759.45	FT
OVERTOPPING DISCHARGE	= 336	CFS
OVERTOPPING FREQUENCY	= 2+	YRS
OVERTOPPING ELEVATION	= 2759.5	FT
FEMA BASE DISCHARGE	= 1710	CFS
FEMA BASE HW ELEV.	= 2759.45	FT
DATE OF SURVEY	= SEPT. 2011	
W.S. ELEVATION AT DATE OF SURVEY	= 2754.00	FT

-DWY-



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TIP PROJECT: 17BP.14.R.128

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DB14A-430102	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG–010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.

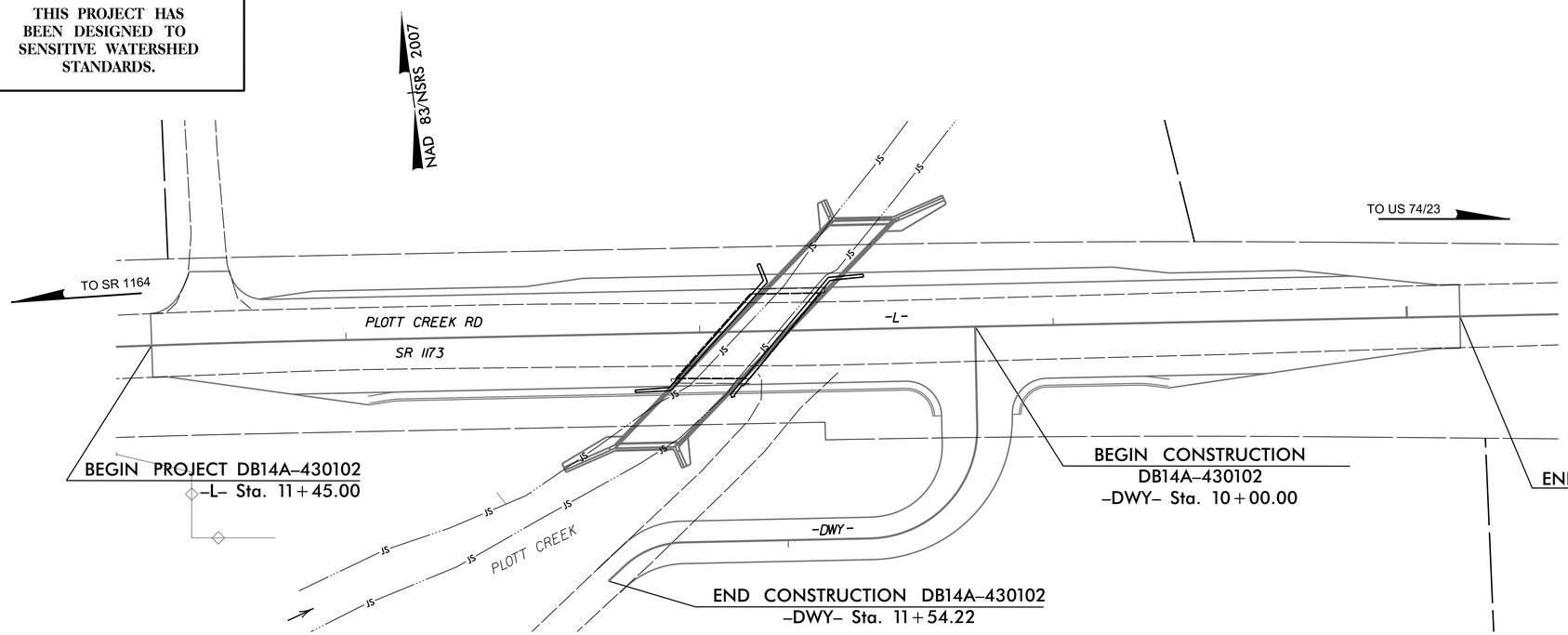
THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

HAYWOOD COUNTY

LOCATION: BRIDGE NO. 102 ON SR 1173 OVER PLOTT CREEK
TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND CULVERT



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle/ Coir Fiber Wattle	EW CFW
	Wattle/ Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

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GRAPHIC SCALE

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared in the Office of:

LOUIS BERGER
1001 Wade Avenue, Suite 400
Raleigh, NC 27605-3322
License No.: F-0840

2012 STANDARD SPECIFICATIONS

Designed By:

WALTER D. ROBERTS, III — *3514*
NAME — *LEVEL III CERTIFICATION NO.*

Reviewed in the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2012 STANDARD SPECIFICATIONS

Reviewed By:

WES CHANDLER

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail
1605.01 Temporary Silt Fence
1606.01 Special Sediment Control Fence
1607.01 Gravel Construction Entrance
1622.01 Temporary Berms and Slope Drains
1630.01 Riser Basin
1630.02 Silt Basin Type B
1630.03 Temporary Silt Ditch
1630.04 Stilling Basin
1630.05 Temporary Diversion
1630.06 Special Stilling Basin
1631.01 Matting Installation
1632.01 Rock Inlet Sediment Trap Type A
1632.02 Rock Inlet Sediment Trap Type B
1632.03 Rock Inlet Sediment Trap Type C
1633.01 Temporary Rock Silt Check Type A
1633.02 Temporary Rock Silt Check Type B
1634.01 Temporary Rock Sediment Dam Type A
1634.02 Temporary Rock Sediment Dam Type B
1635.01 Rock Pipe Inlet Sediment Trap Type A
1635.02 Rock Pipe Inlet Sediment Trap Type B
1640.01 Coir Fiber Baffle
1645.01 Temporary Stream Crossing

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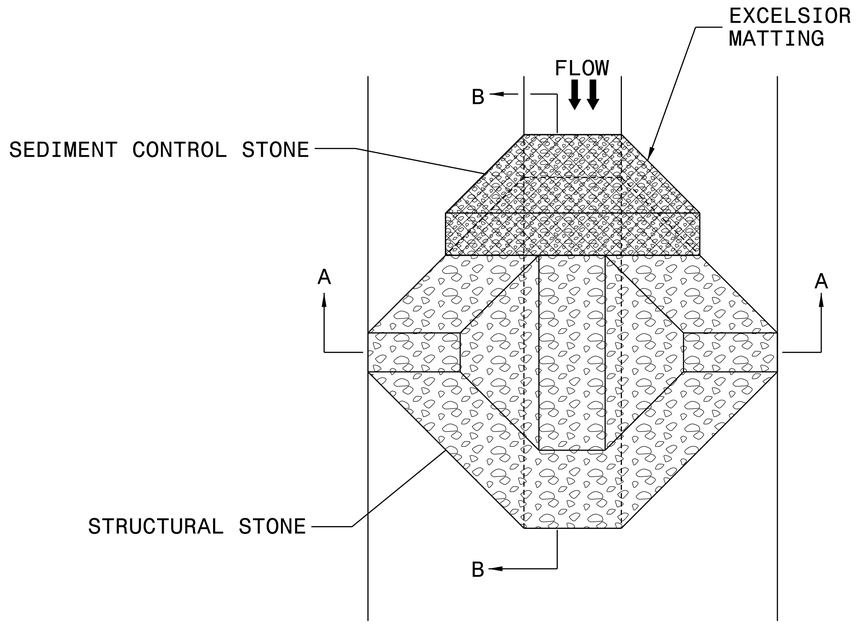
TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN

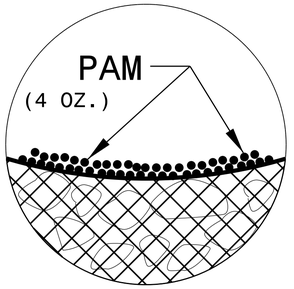
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

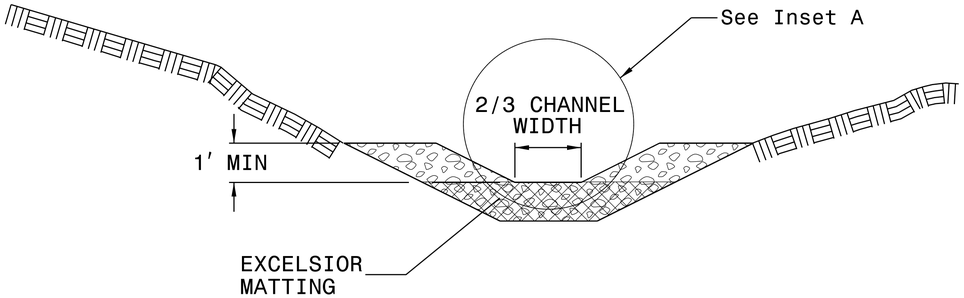
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

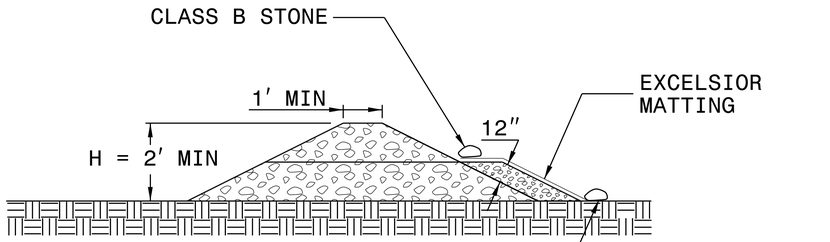
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

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ROADWAY PLANS

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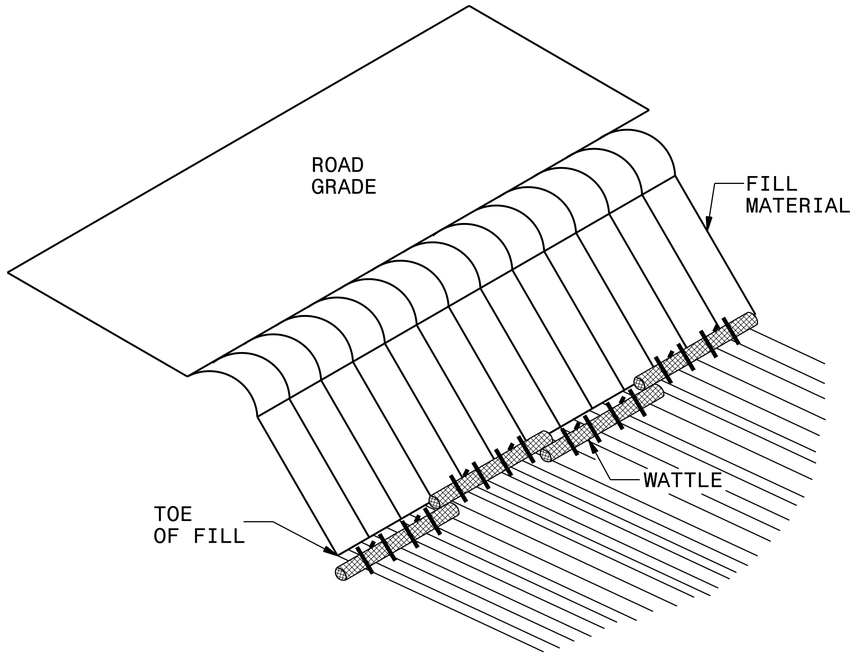
WATTLE BARRIER DETAIL



ISOMETRIC VIEW

NOTES:

USE MINIMUM 18 IN. NOMINAL DIAMETER EXCELSIOR WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLES ON TOE OF SLOPE.

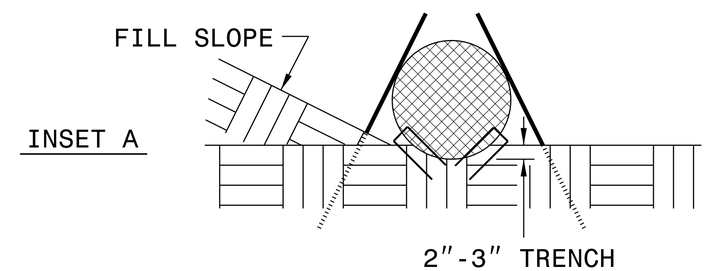
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

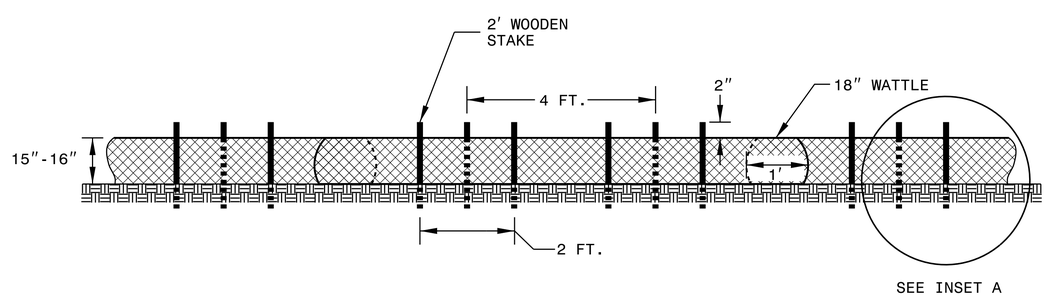
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

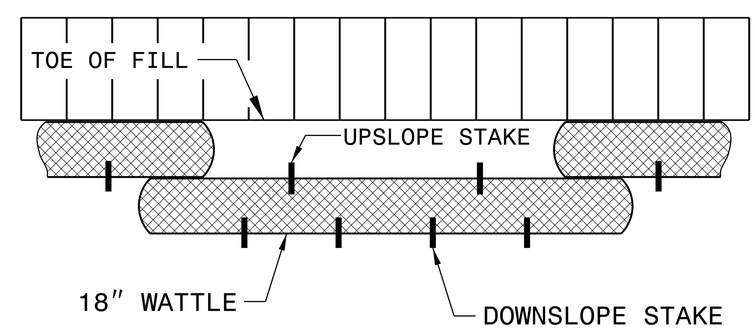
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 20 FT.





FRONT VIEW



TOP VIEW

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ROADWAY PLANS

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

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DB14A-430102	EC-4/CONST.4
R/W SHEET NO.	

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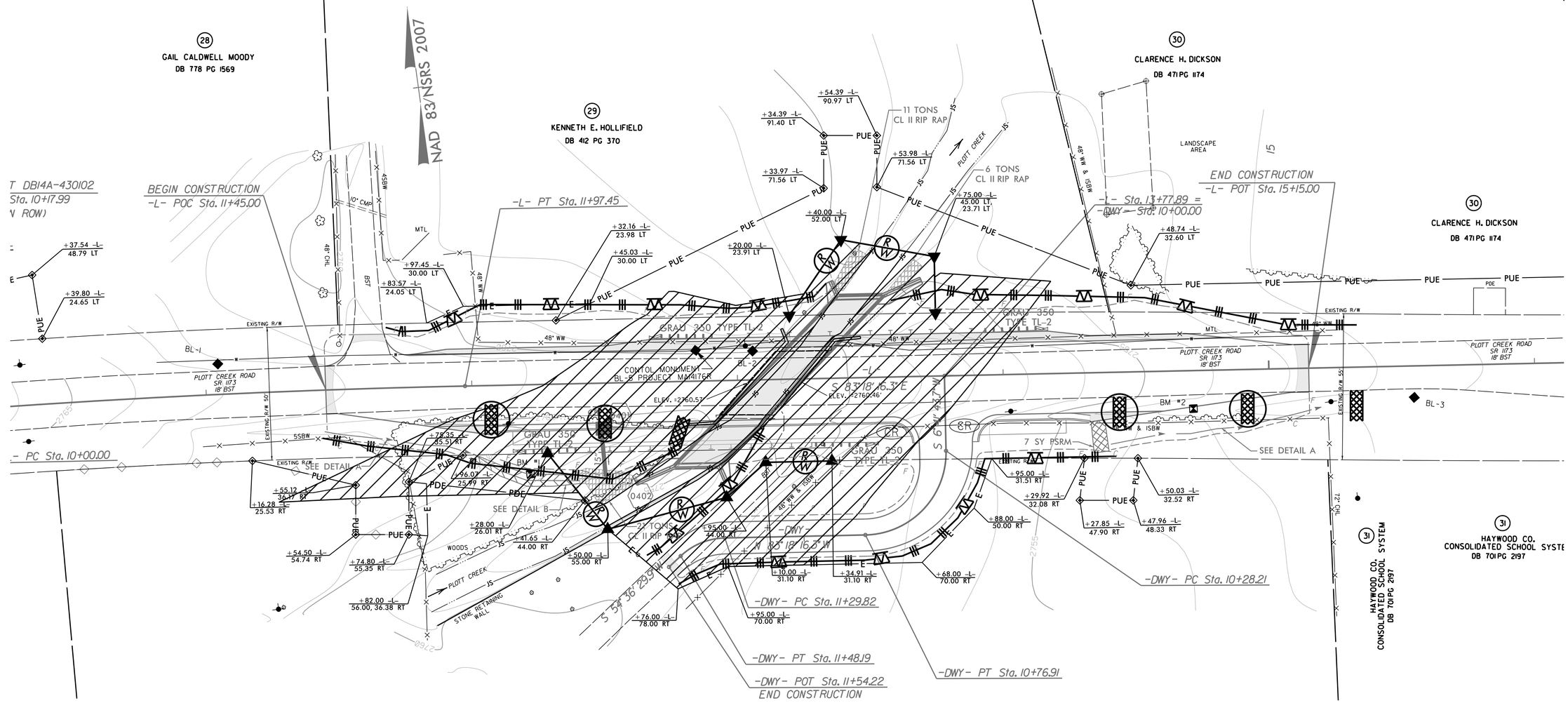
0' 20' 40'

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

EROSION CONTROL

CLEARING & GRUBBING



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

REVISIONS

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ROADWAY PLANS

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CULVERT CONSTRUCTION SEQUENCE

0' 20' 40'

PROJECT REFERENCE NO.	SHEET NO.
DB14A-430102	EC-5/CONST.4
R/W SHEET NO.	

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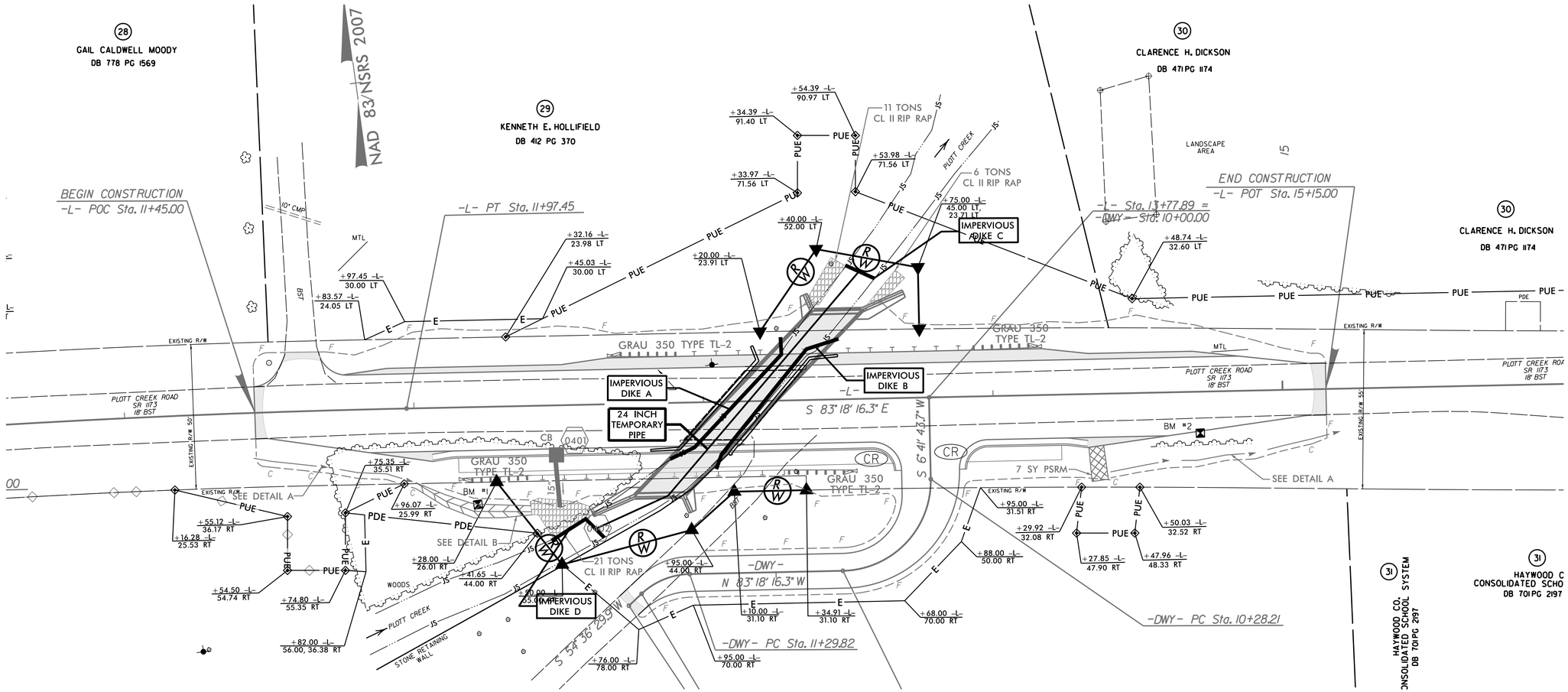

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
2. CONSTRUCT IMPERVIOUS DIKES A AND B AS SHOWN.
3. REMOVE EXISTING BRIDGE AND ASSOCIATED APPURTENANCES.
4. CONSTRUCT IMPERVIOUS DIKES C AND D AND INSTALL 24" TEMPORARY PIPE AS SHOWN. REMOVE IMPERVIOUS DIKES A AND B.
5. CONSTRUCT PROPOSED ALUMINUM BOX CULVERT AND ASSOCIATED APPURTENANCES. UTILIZE BYPASS PUMPING IF TEMPORARY PIPE LOCATION IS IN CONFLICT WITH CONSTRUCTION ACTIVITIES.
6. REMOVE IMPERVIOUS DIKES C AND D AND PROPERLY DISPOSE OF SPECIAL STILLING BASIN(S).
7. COMPLETE ROADWAY AND STABILIZE ANY REMAINING DISTURBED AREAS.

REVISIONS

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ROADWAY PLANS

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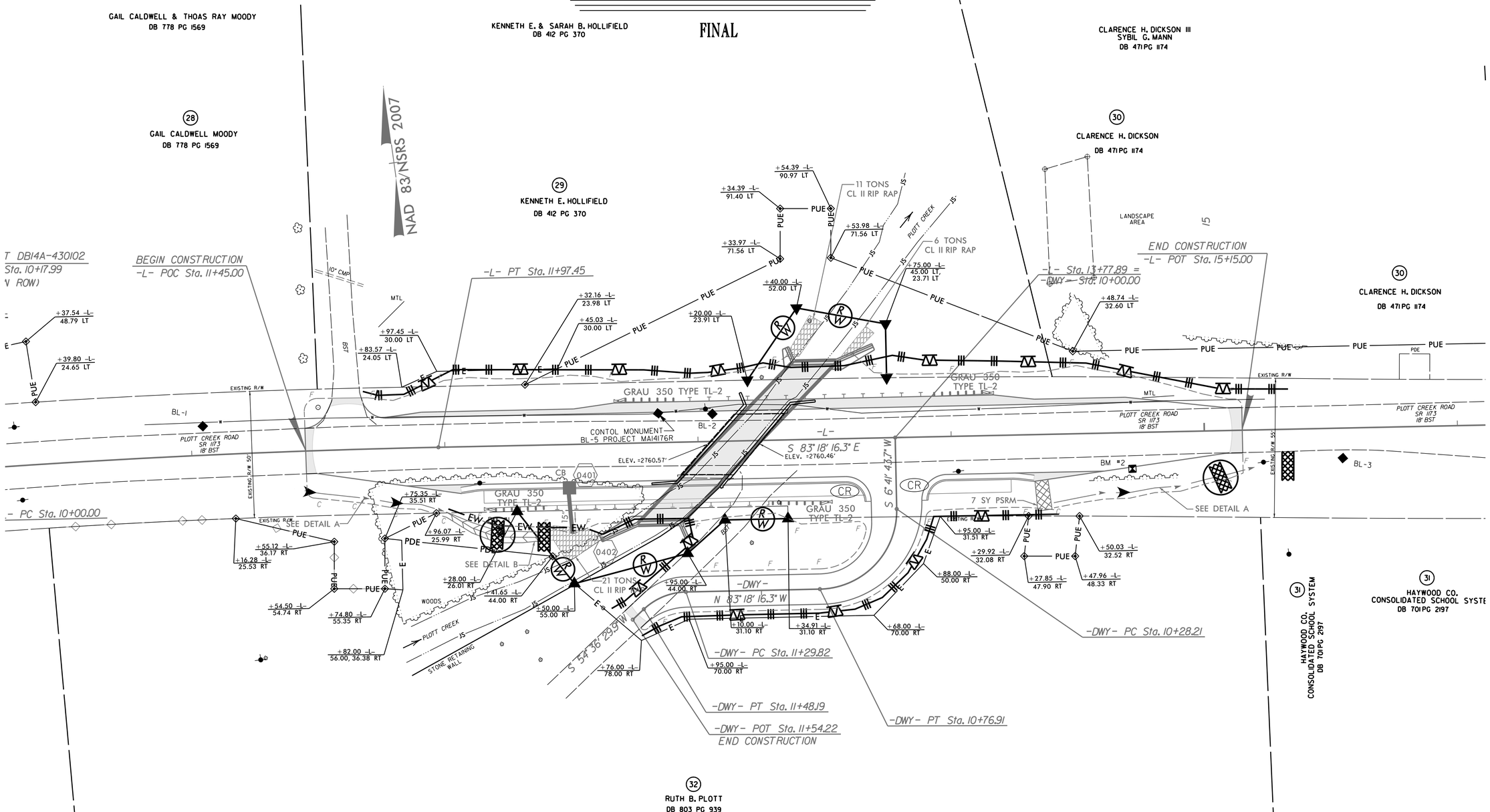
0' 20' 40'

EROSION CONTROL

FINAL



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17BP.14.R.128
CROSS SECTIONS

INDEX OF SHEETS

TITLE	STATION	SHEET NO.
CROSS-SECTION INDEX		X-1
-L- CROSS-SECTIONS	11+40 - 15+20	X-2 THROUGH X-10

NOTE: Approximate quantities only. Clearing and Grubbing, Unclassified Excavation, Fine Grading, and Removal of Existing Asphalt Pavement will be paid for at the contract lump sum price for "Grading".

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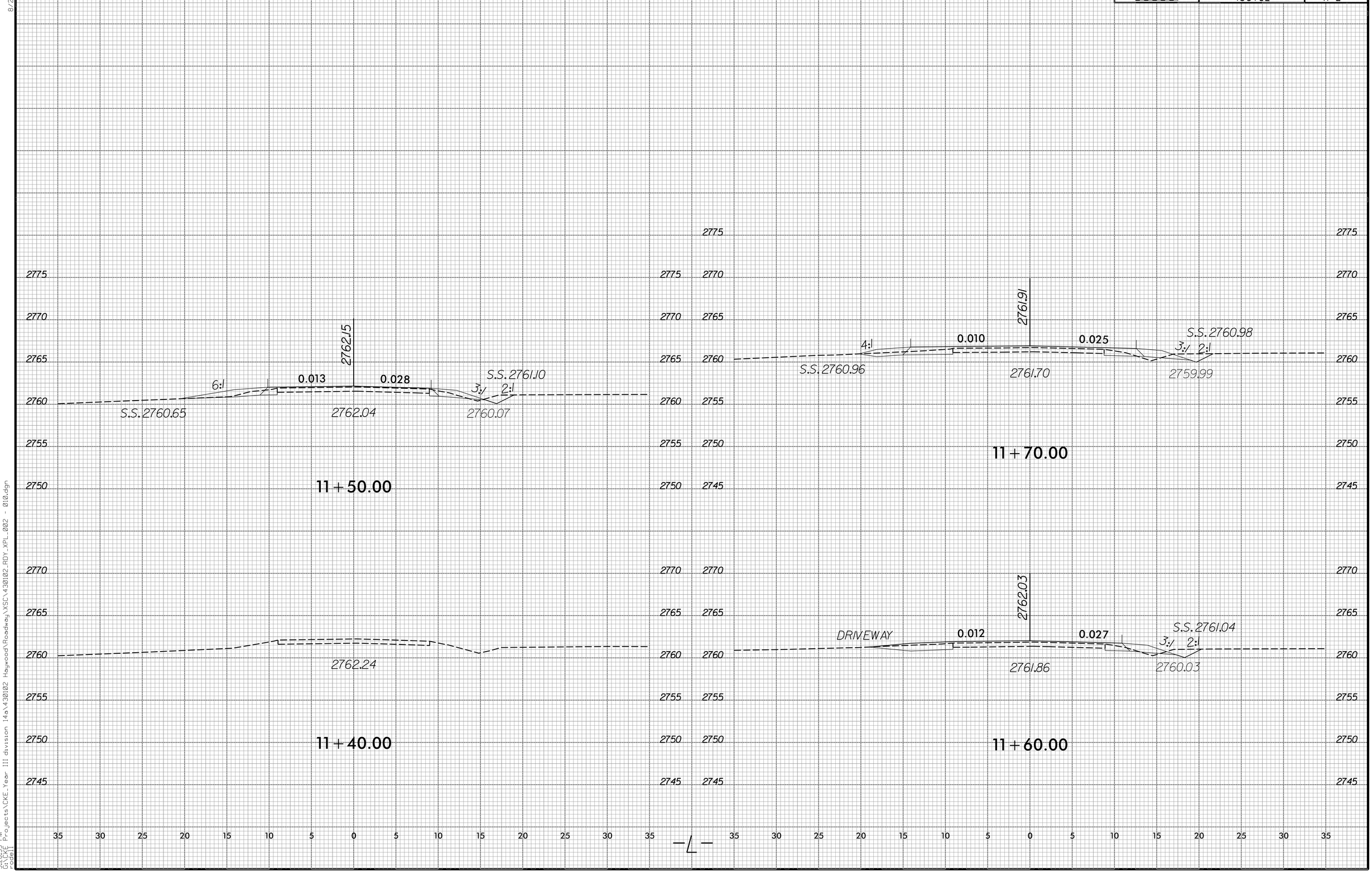

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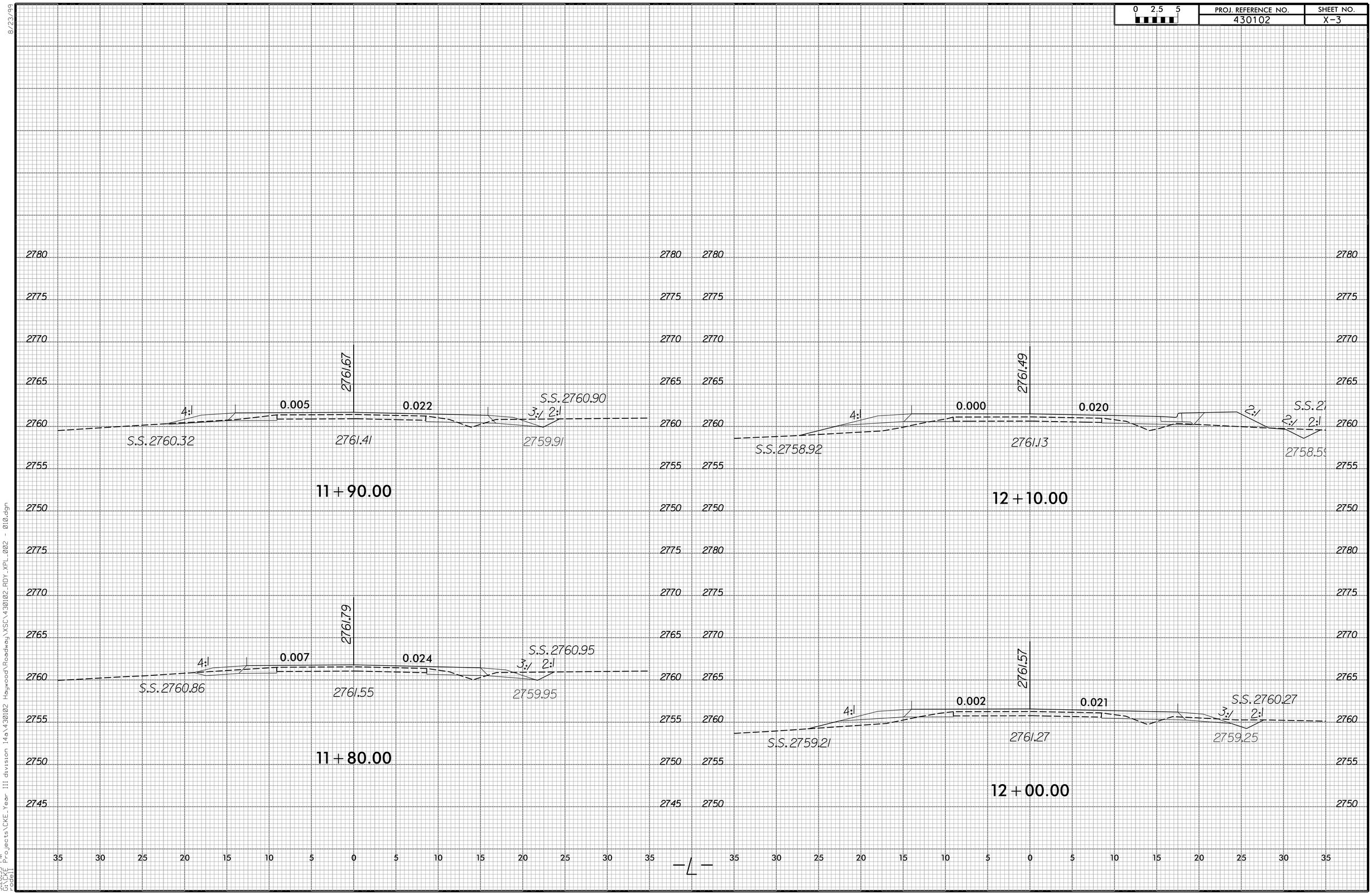

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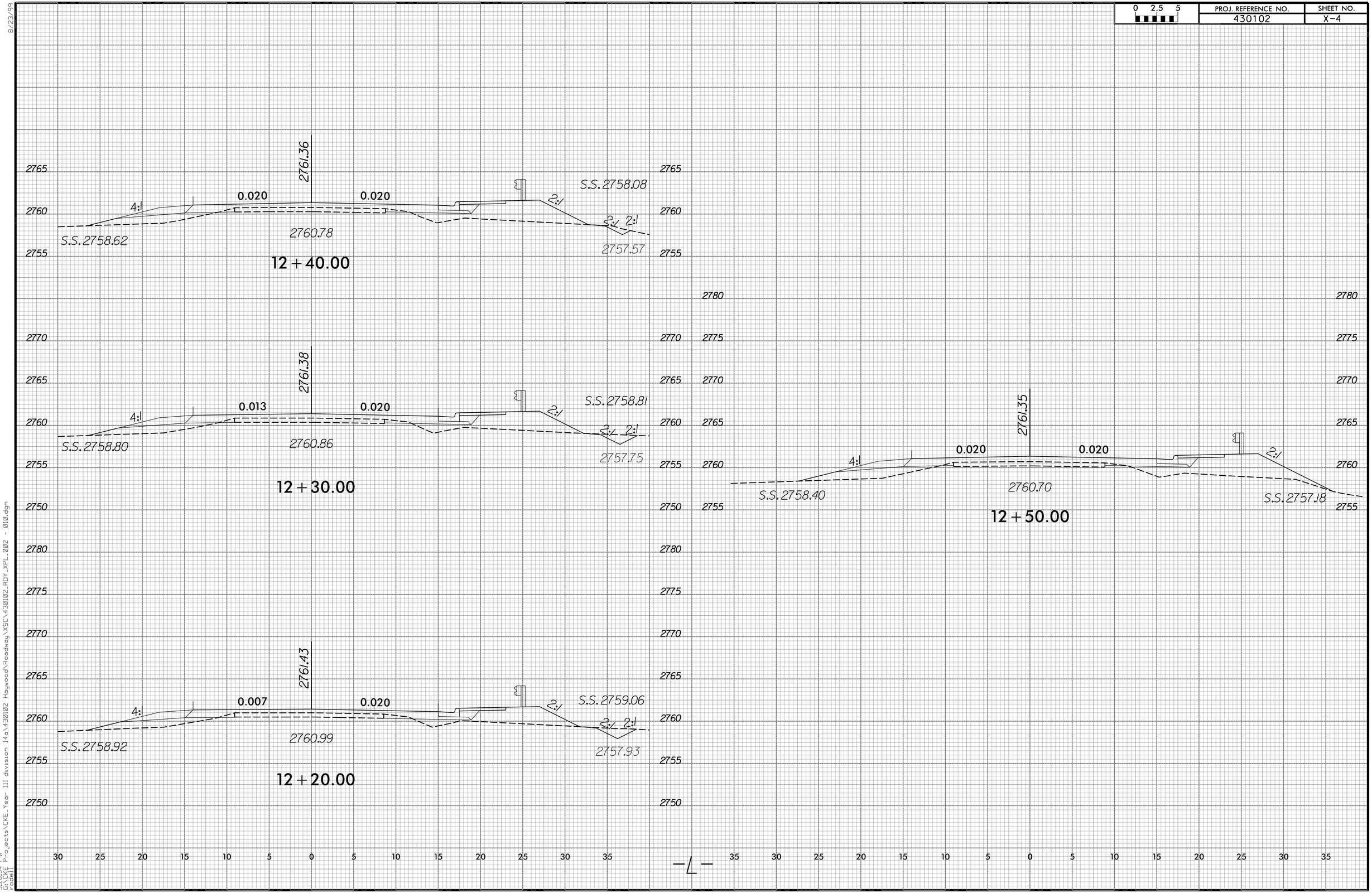

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Model

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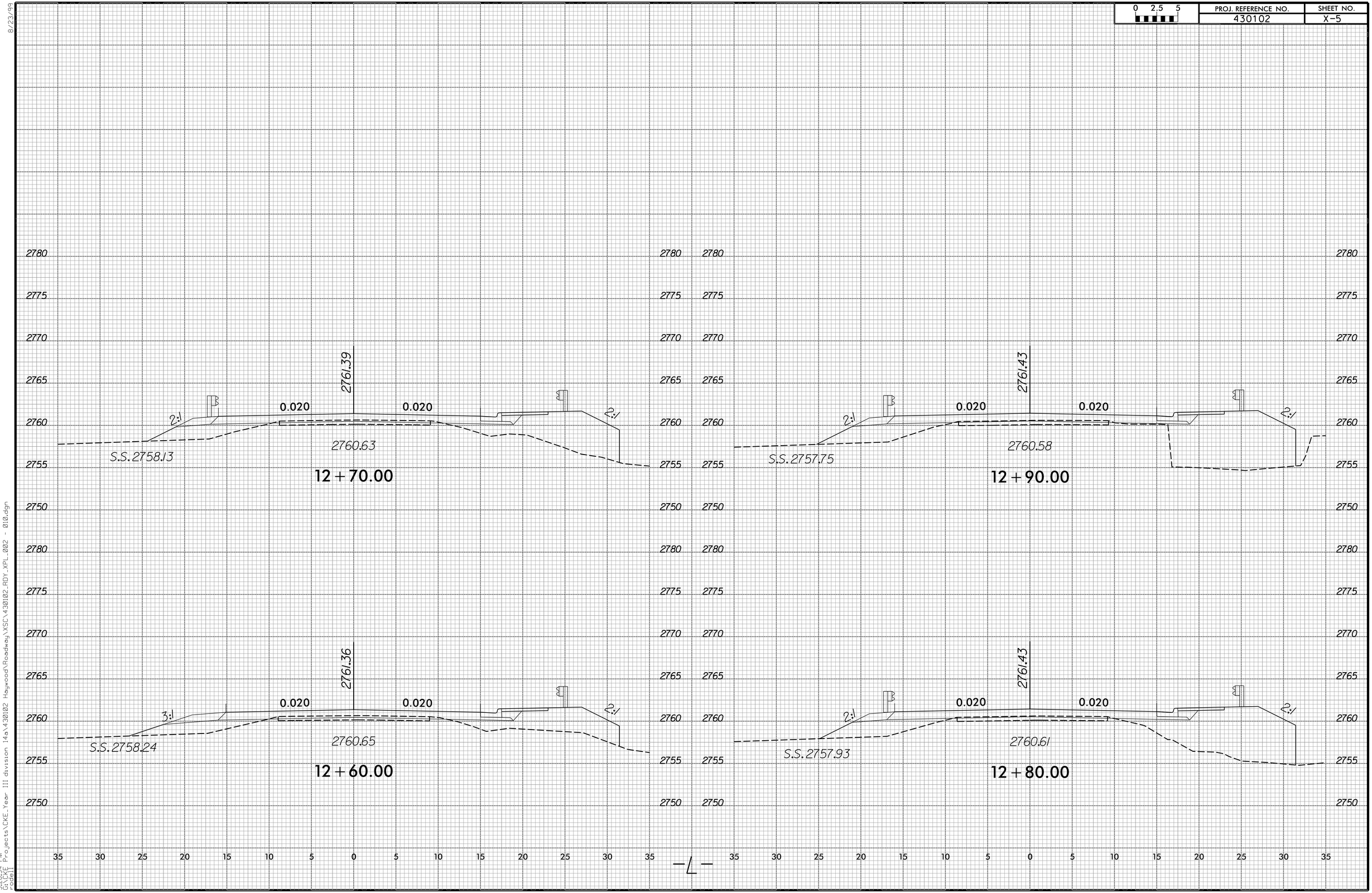

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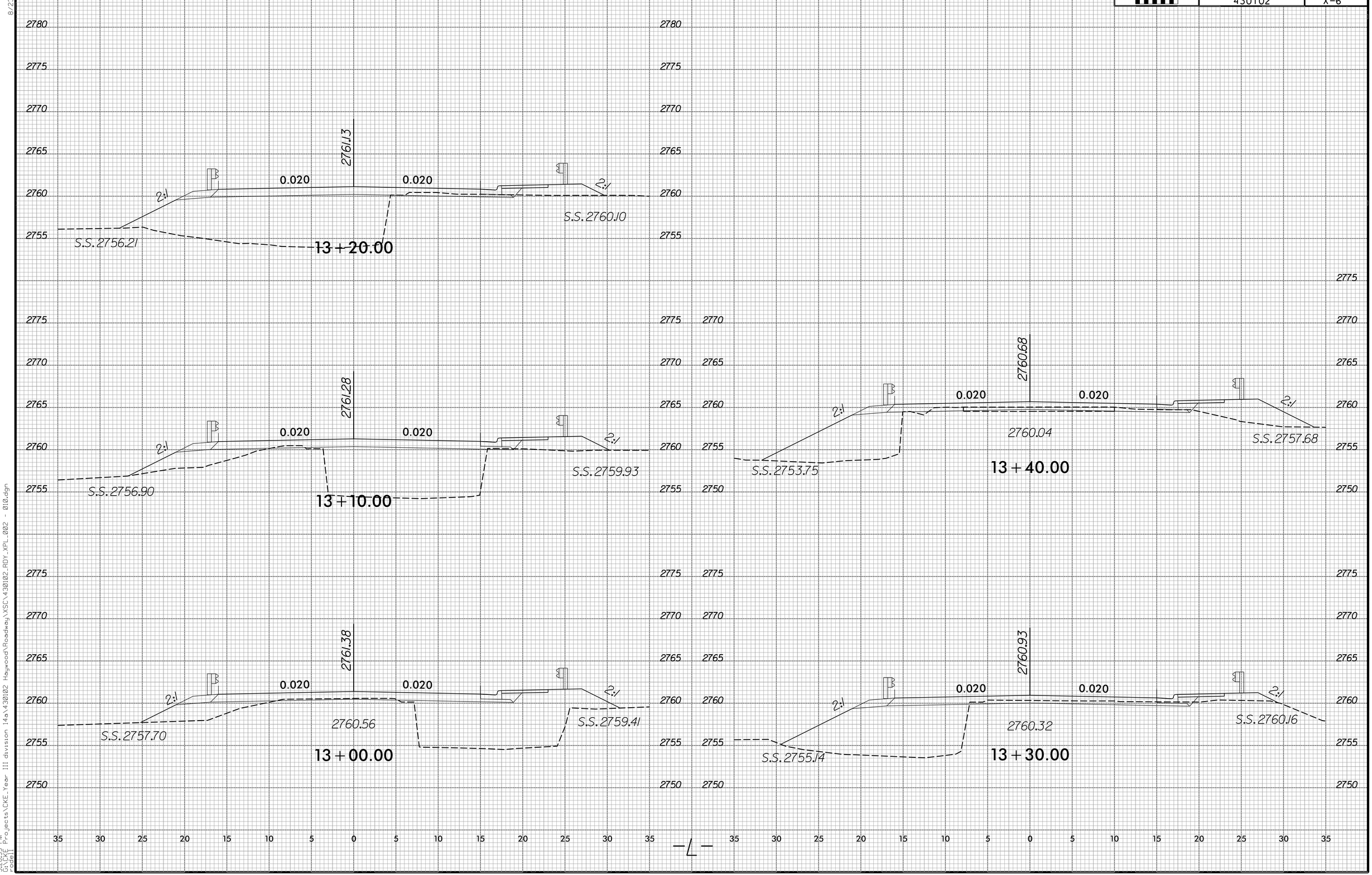

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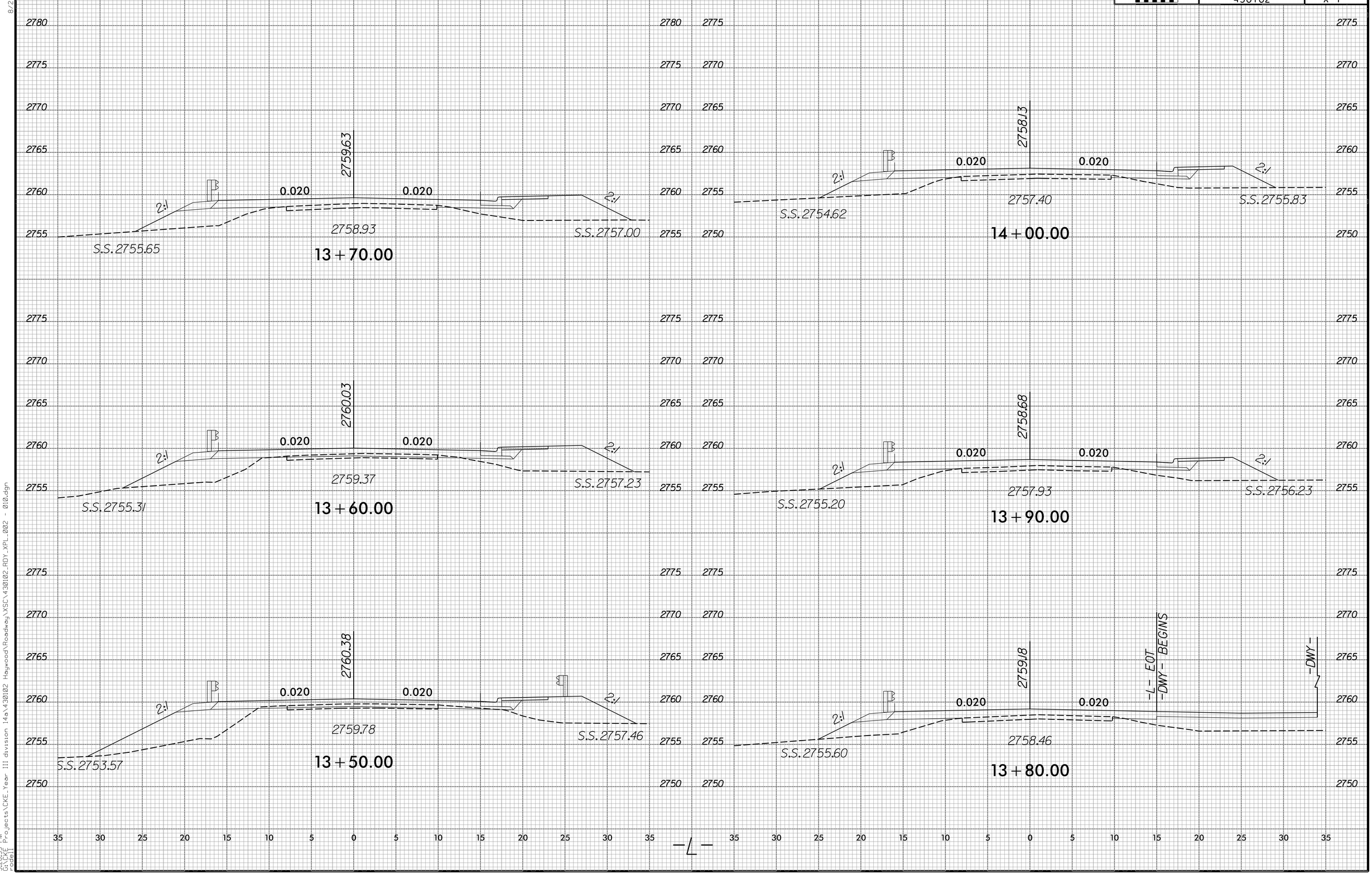

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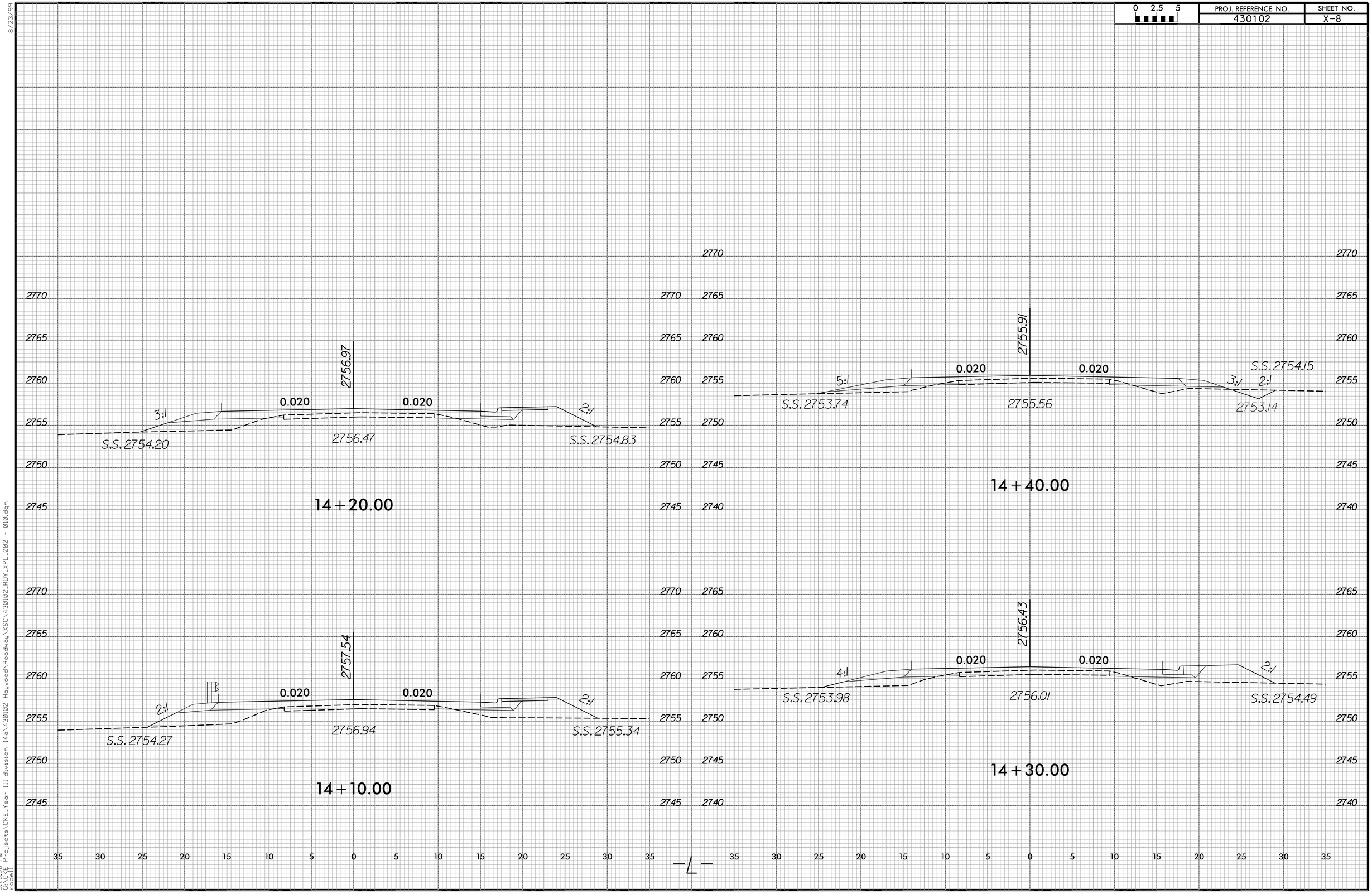

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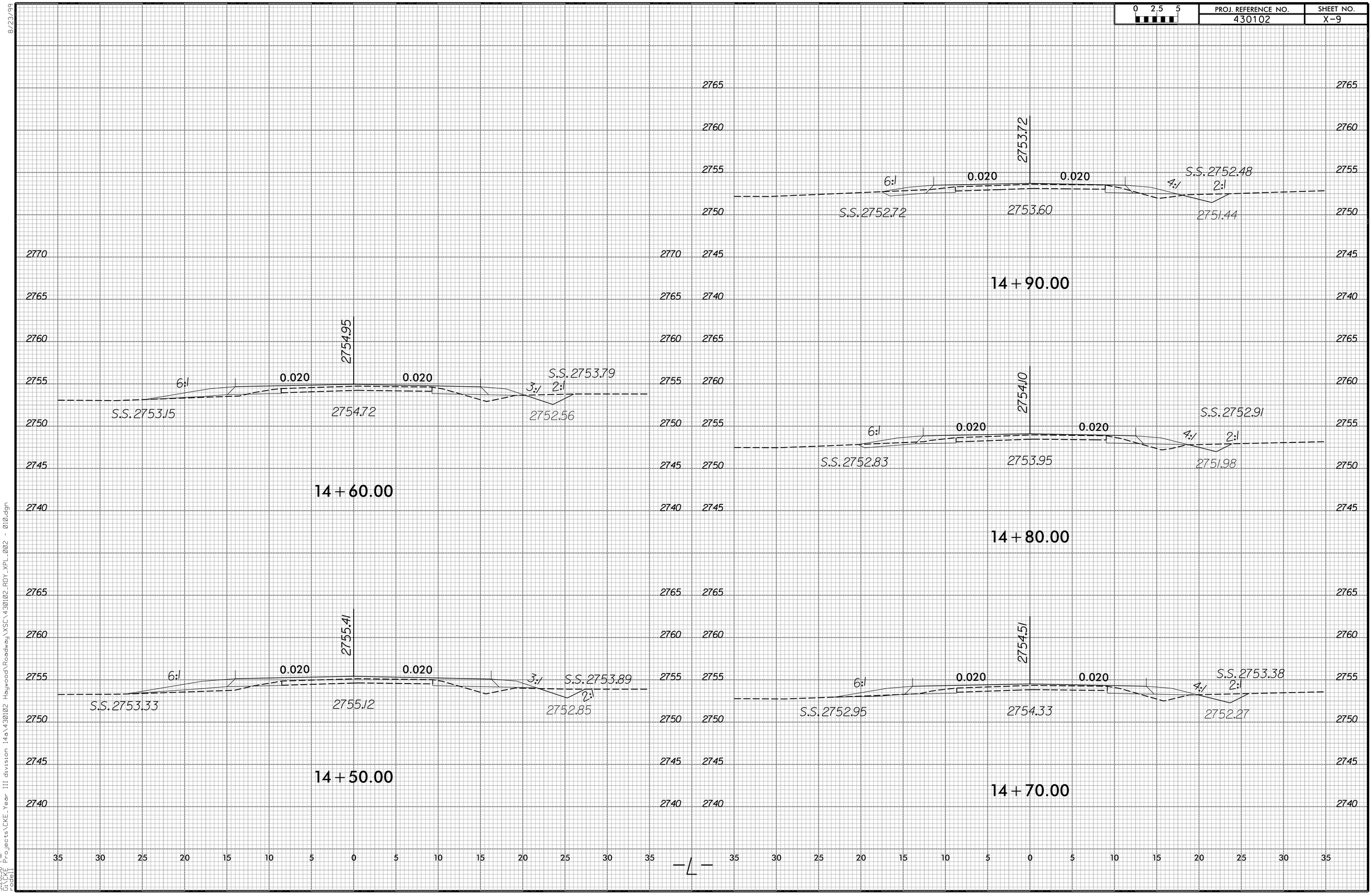

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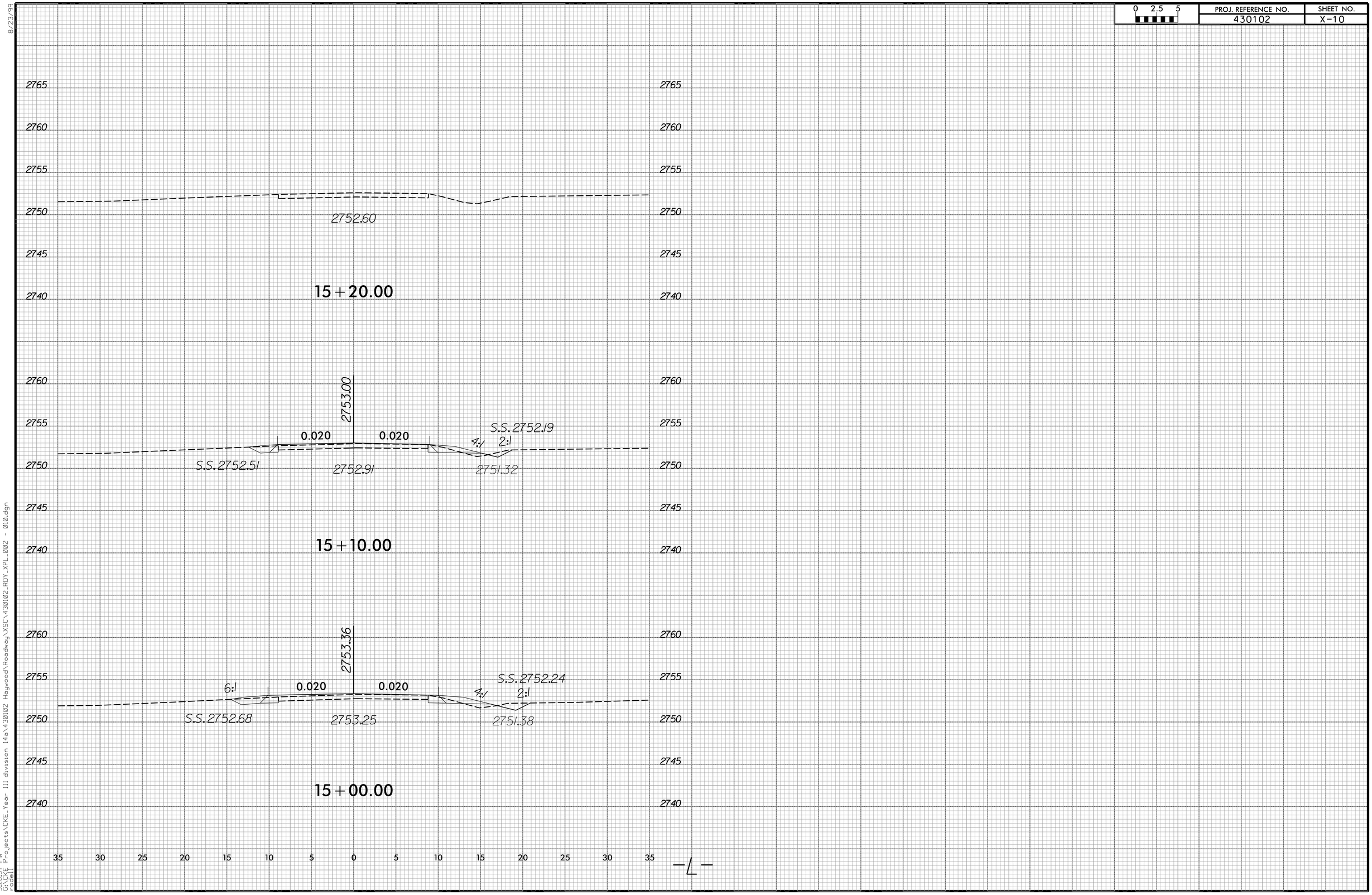
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