

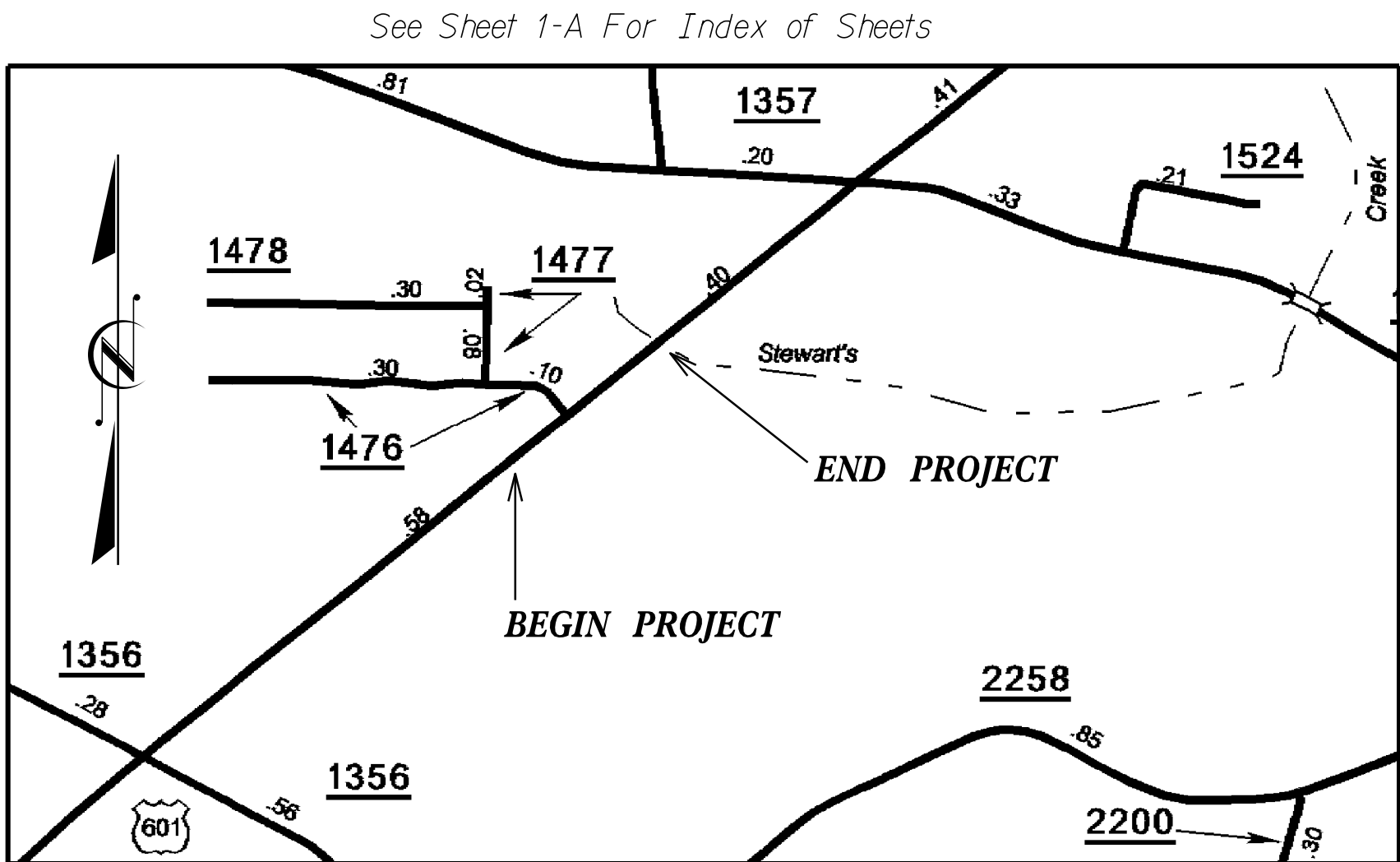
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5601AH	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50138.1.FR35	HSIP-0601(22)	PE	
50138.3.35	HSIP-0601(22)	CONST	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

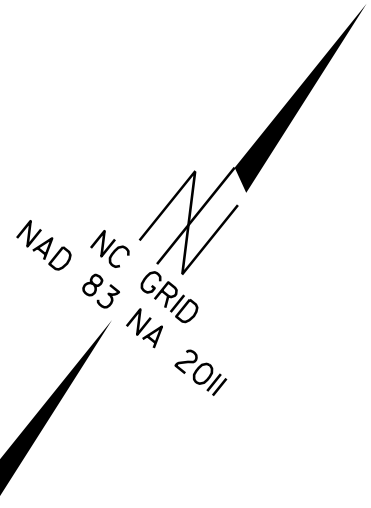
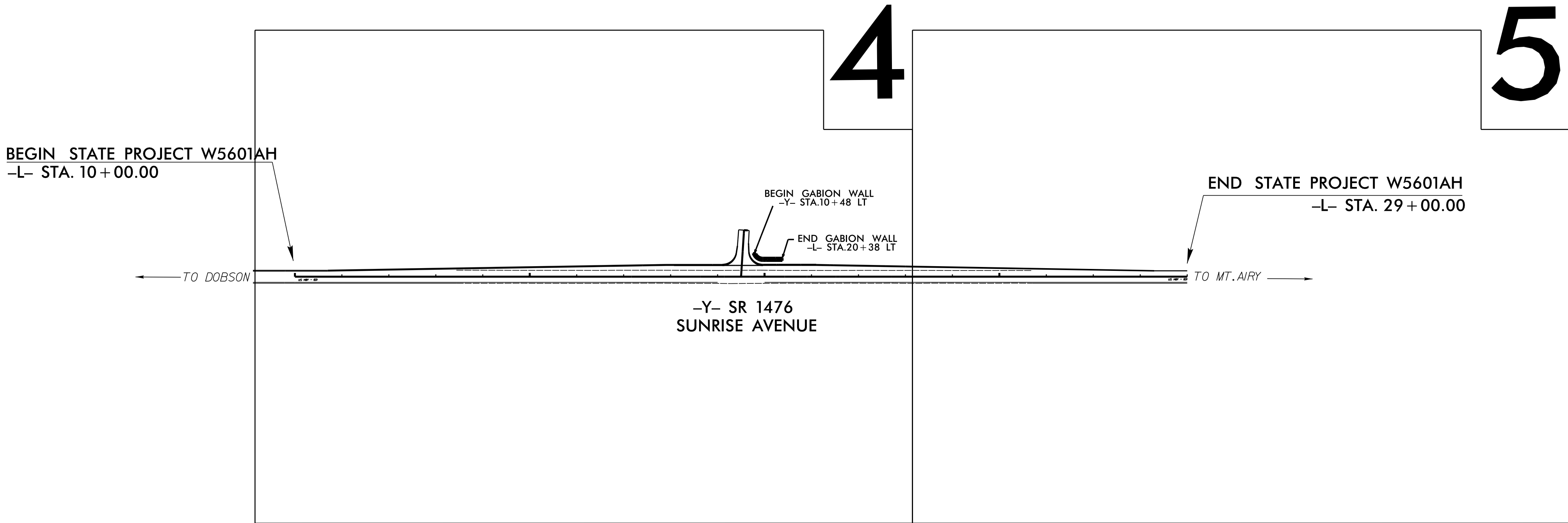
SURRY COUNTY

LOCATION: US 601 AT THE INTERSECTION OF SR 1476 (SUNRISE AVENUE)
AND THE ENTRANCE TO TEMPLE BAPTIST CHURCH

TYPE OF WORK: GRADING, WIDENING, AND PAVING

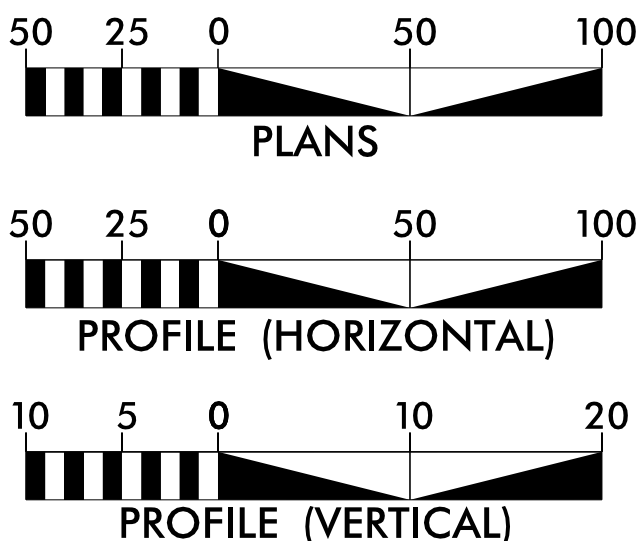


VICINITY MAP (NOT TO SCALE)



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2013 = 12,000
ADT 2040 = 15,700
D = 50 %
T = 5 % *
V = 60 MPH
* TTST = 2% DUAL 3%

FUNCTIONAL CLASS =
MINOR ARTERIAL

PROJECT LENGTH

TOTAL LENGTH PROJECT W-5601AH = 0.549 MI

Prepared in the Office of:
DIVISION OF HIGHWAYS
801 STATESVILLE ROAD, NORTH WILKESBORO, N.C. 28659

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
JUNE 29, 2017

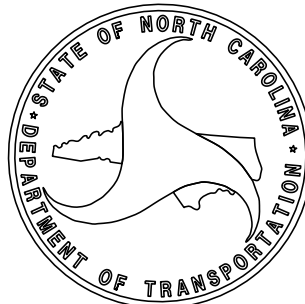
DIVISION ENGINEER
M.A. PETTYJOHN, PE

DocuSigned by:
M.A. Pettyjohn
DC48000C350748C
P.E.
6/8/2017
DATE

PROJECT TEAM LEAD
JOE D. LEDBETTER, PE



DocuSigned by:
Joe D. Ledbetter
7AE142770B57481
SIGNATURE:
6/8/2017
P.E.



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2A THRU 2B	GABION WALL DETAIL SHEETS
2C THRU 2L	GUARDRAIL DETAIL SHEETS
3A	SUMMARY OF EARTHWORK, AND GUARDRAIL SUMMARY SHEET
3B	PARCEL INDEX SHEET
4 THRU 5	PLAN SHEETS
6	PROFILE SHEET
PMP-1 THRU PMP-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
X	CROSS-SECTION INDEX
X-A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-10	CROSS-SECTIONS

PROJECT REFERENCE NO.
W-5601AH

SHEET NO.
I-A

ROADWAY DESIGN
ENGINEER

PROFESSIONAL
SEAL
20685
CIVIL ENGINEER

DocuSign Envelope ID: 7AE73277D085E691

6/8/2017

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UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

PROJECT REFERENCE NO.	SHEET NO.
W-560IAH	I-B

BOUNDARIES AND PROPERTY:

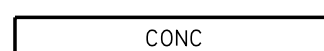
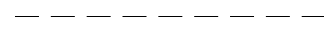
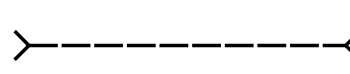
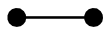
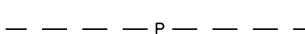
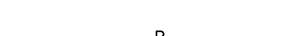
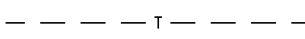
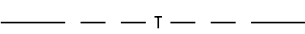
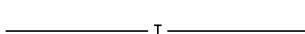
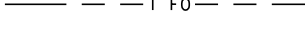
State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	
Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	
HYDROLOGY:	
Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
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	
Proposed Right of Way Line with Iron Pin and Cap Marker	
Proposed Right of Way Line with Concrete or Granite R/W Marker	
Proposed Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
Proposed Control of Access	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage / Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	
Proposed Permanent Easement with Iron Pin and Cap Marker	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
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	
EXISTING STRUCTURES:	
MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	
UTILITIES:	
POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line LOS B (S.U.E.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	
TELEPHONE:	
Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

WATER:	
Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E.*)	
U/G Water Line LOS C (S.U.E.*)	
U/G Water Line LOS D (S.U.E.*)	
Above Ground Water Line	
TV:	
TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*)	
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	
GAS:	
Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	
SANITARY SEWER:	
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	
MISCELLANEOUS:	
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole LOS A (S.U.E.*)	
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

6/2/99

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J:\PROJECTS\W560IAH\DDC.tup.dgn

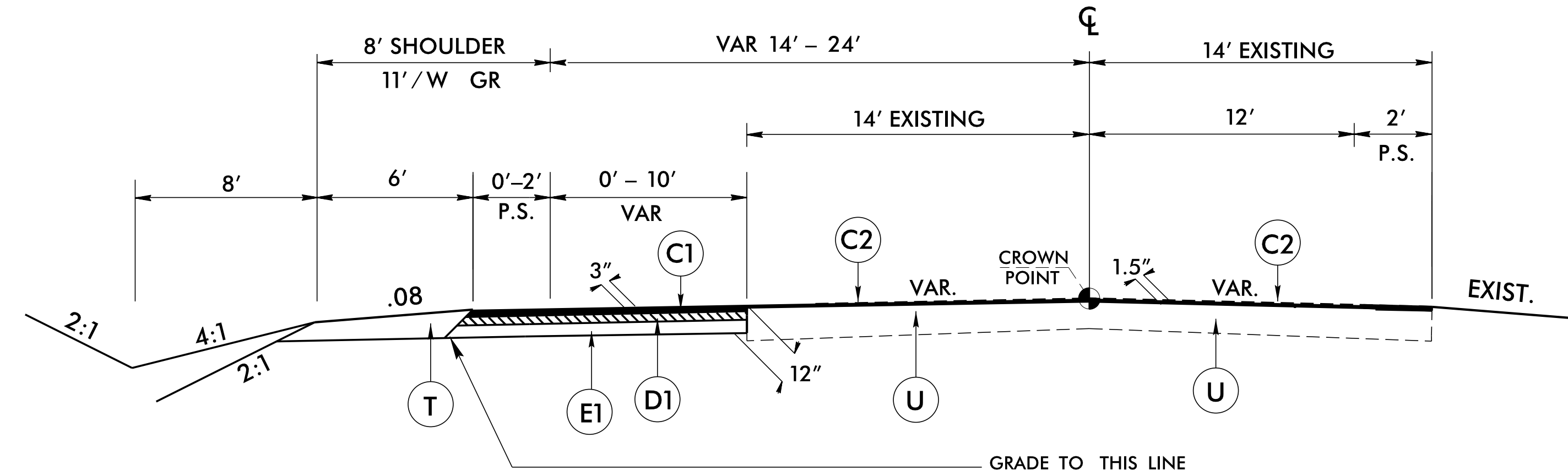
PROJECT REFERENCE NO.
W-560IAH

SHEET NO.
2

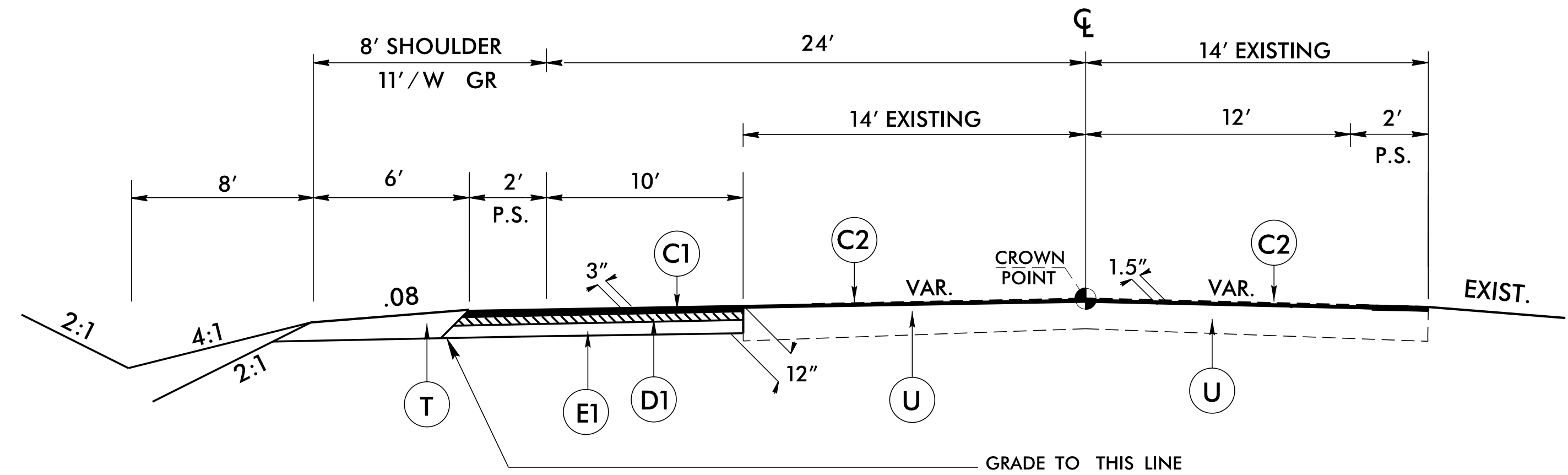
ROADWAY DESIGN
ENGINEER

Seal of the Professional Engineer, State of North Carolina, License No. 20685, dated 10/2017.

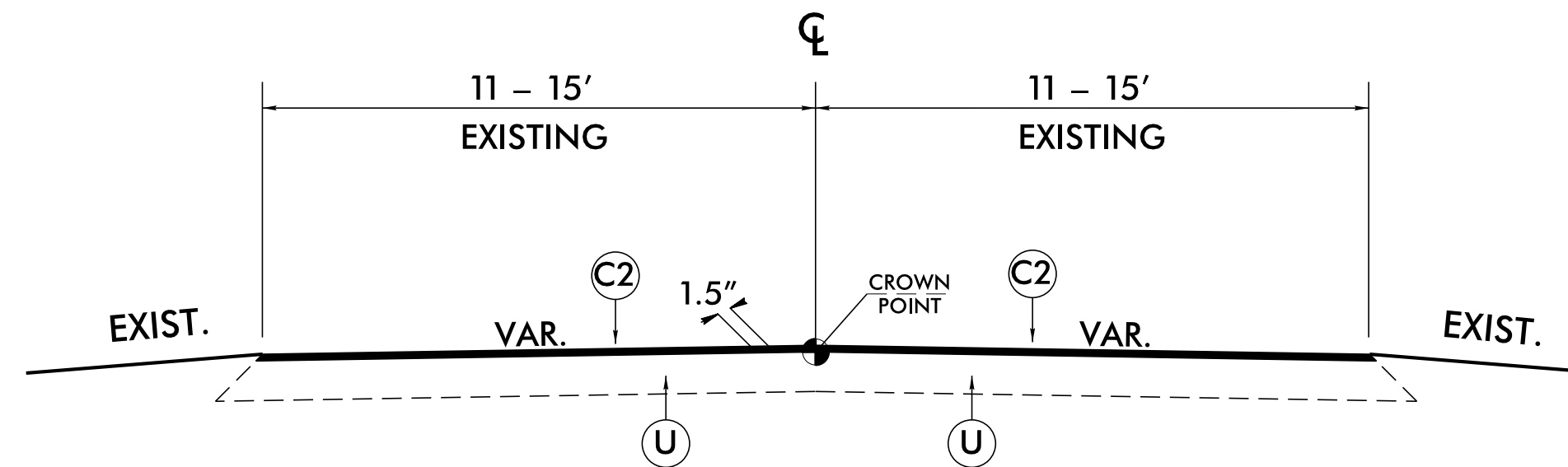
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UNLESS ALL SIGNATURES COMPLETED



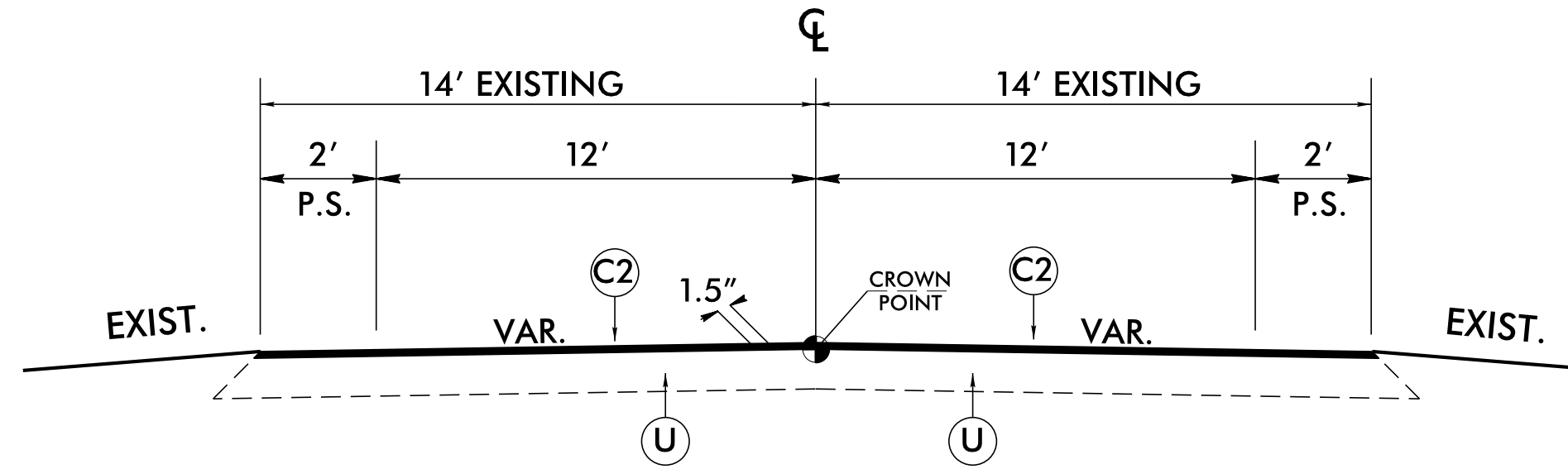
TYPICAL SECTION NO. 1
-L- STA. 10+70.00 TO -L- STA. 17+90.00
-L- STA. 21+10.00 TO -L- STA. 28+30.00



TYPICAL SECTION NO. 2
-L- STA. 17+90.00 TO -L- STA. 21+10.00



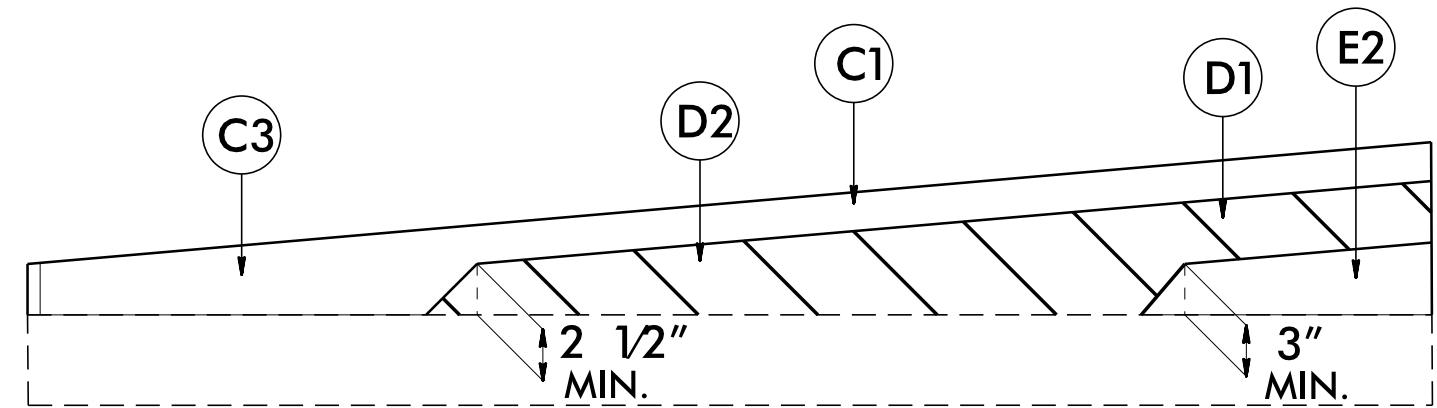
TYPICAL SECTION NO. 3
-Y- STA. 10+00.00 TO -Y- STA. 10+72.00 (RESURFACE)



TYPICAL SECTION NO. 4
-L- STA. 10+00.00 TO -L- STA. 10+70.00 (RESURFACE)
-L- STA. 28+30.00 TO -L- STA. 29+00.00 (RESURFACE)

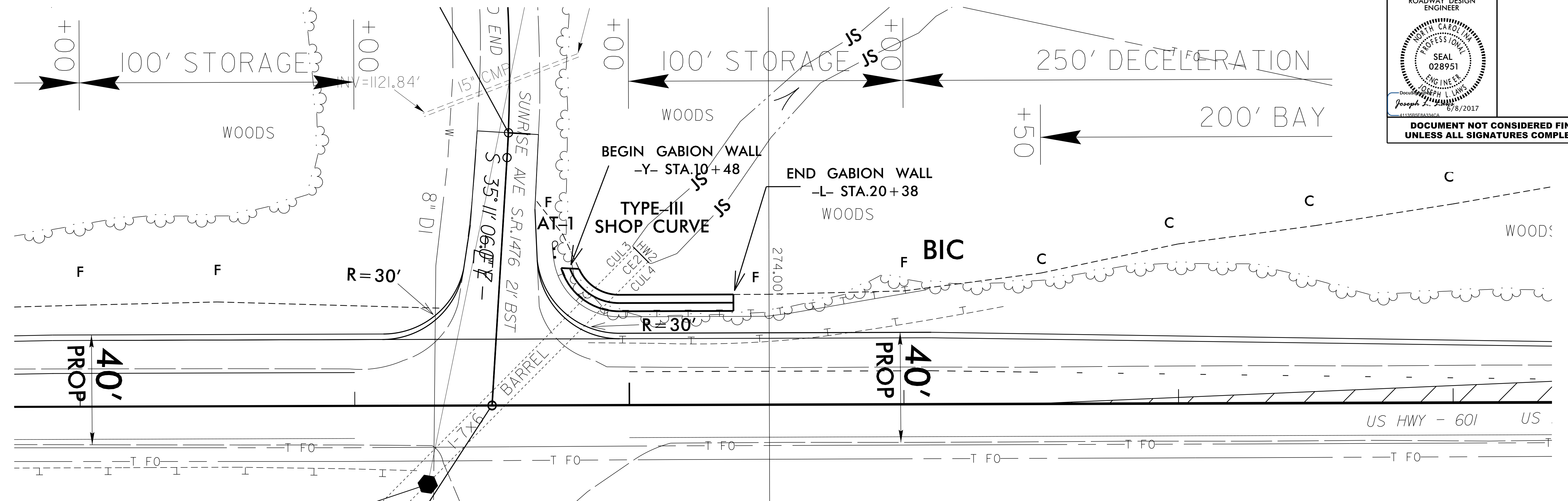
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
T	EARTH MATERIAL
U	EXISTING PAVEMENT

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

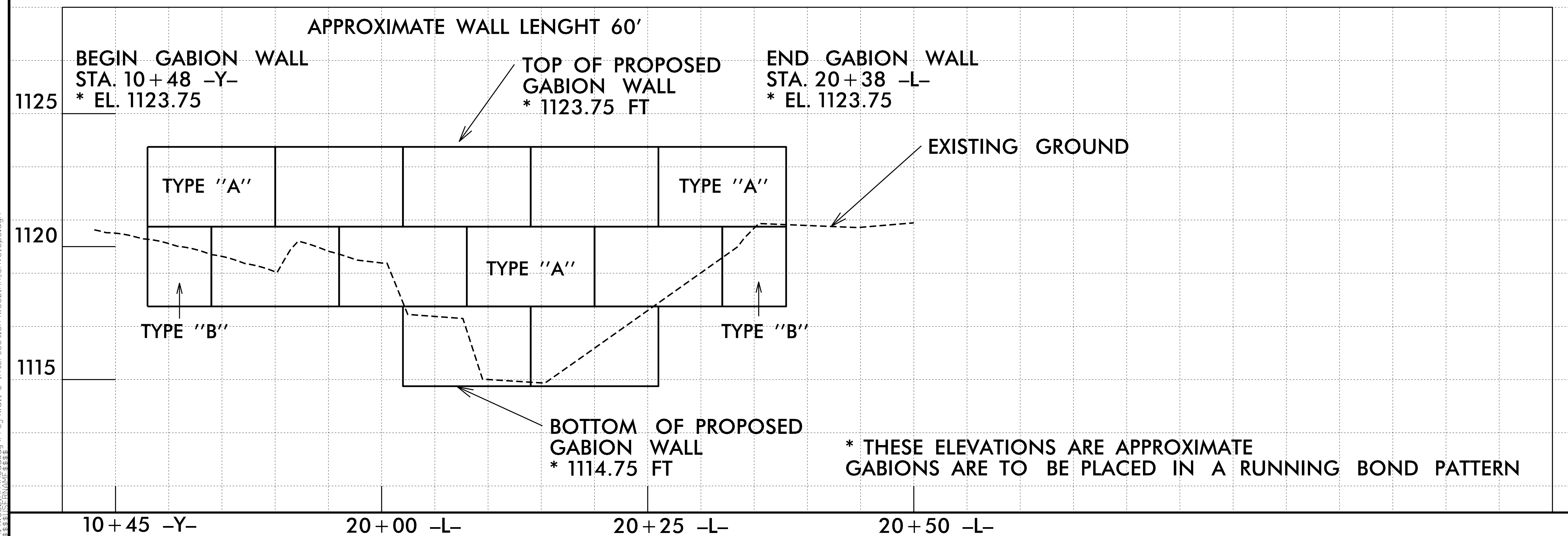


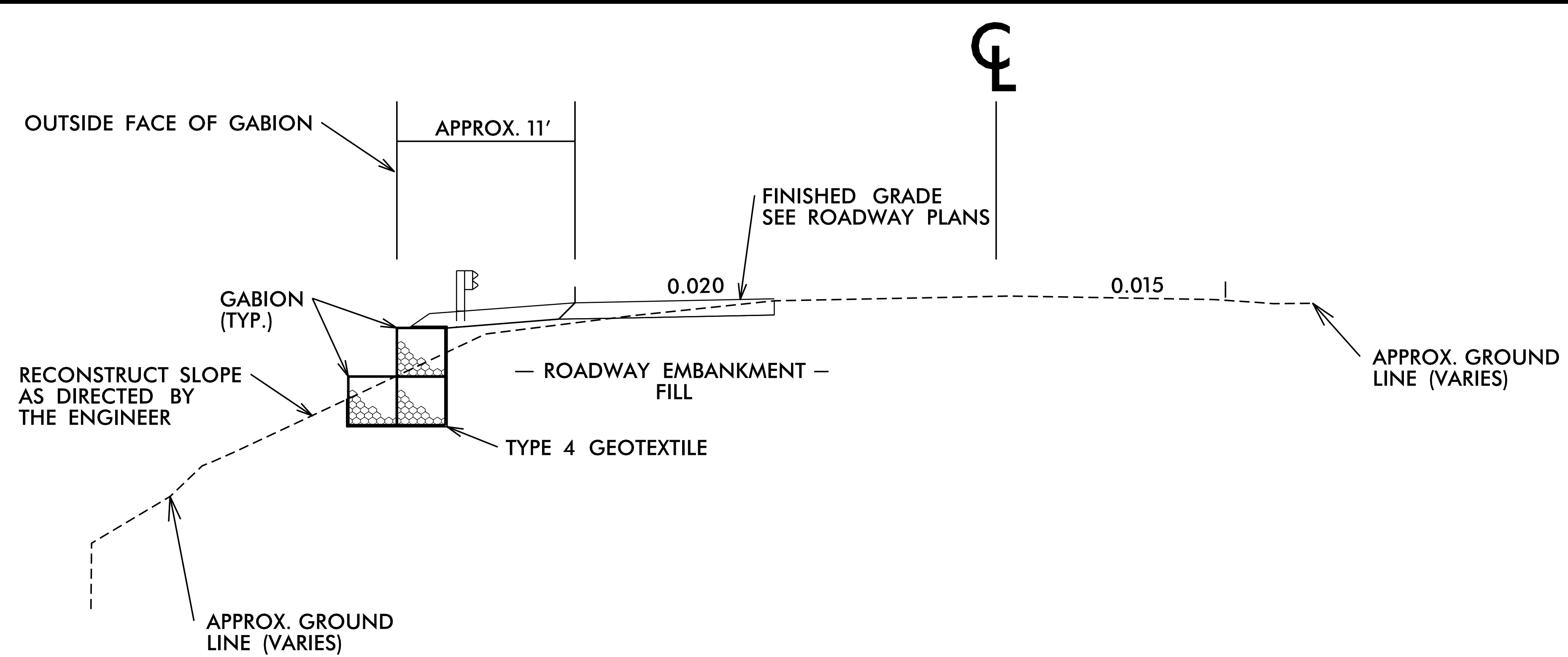
Wedging Detail For Resurfacing

LOCATION SKETCH



WALL ENVELOPE





GABION BASKET SHOULDER CONSTRUCTION

PAY ITEMS
GABION RETAINING WALL = 340 SQ. FT.

GABIONS	LENGTH	WIDTH	HEIGHT
TYPE "A"	12' X	3' X	3'
TYPE "B"	6' X	3' X	3'

GABIONS	APPROX. VOLUME OF STONE (CU. YDS.)	QUANTITY
TYPE "A"	4	15
TYPE "B"	2	5
TOTAL VOLUME OF STONE =		70 CU. YDS.

- NOTES TO CONTRACTOR:
- GABION ARE TO BE FILLED WITH THE SIZE AND TYPE OF STONE AS OUTLINED IN THE PROJECT SPECIAL PROVISIONS
 - OVERLAP FABRIC AT MINIMUM 18" OR AS DIRECTED BY THE ENGINEER
 - TYPICAL GABIONS ARE 3 FT. HEIGHT BY 3 FT. DEPTH BY 6, OR 12 FT. LENGTHS. GABIONS LENGTHS MAY NEED TO BE MOTIFIED TO FIT THE WALL PARAMETERS.
 - USE GABION RETAINING WALL BETWEEN STA. 10+48 -Y- TO STA. 20+38 -L- OR AS DIRECTED BY THE ENGINEER.

PROJECT REFERENCE NO.
W-560/AH

SHEET NO.
2-B

R/W SHEET NO.

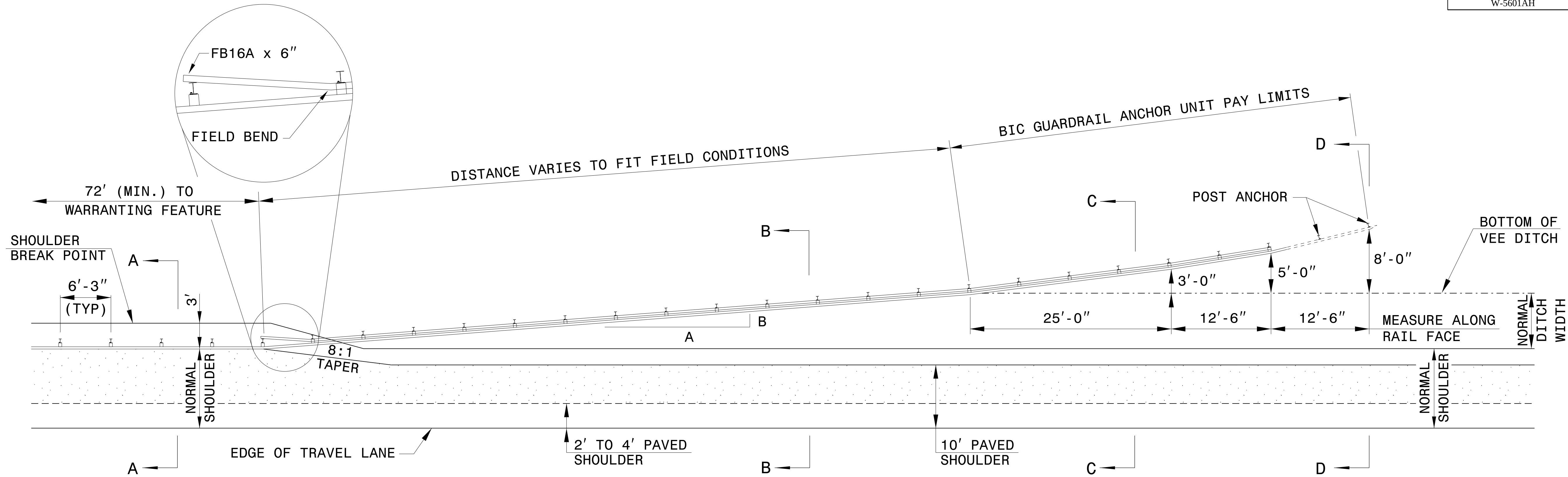
ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 028951 ENGINEER

JOSEPH L. LINDS

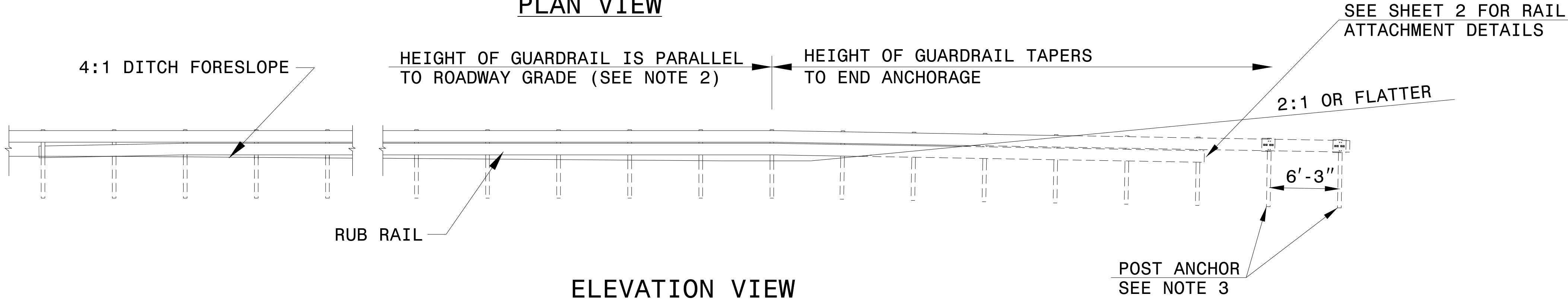
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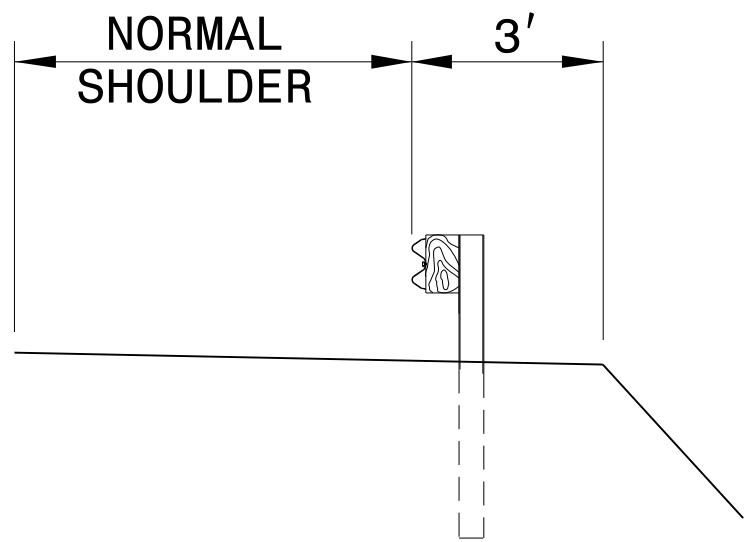


PLAN VIEW

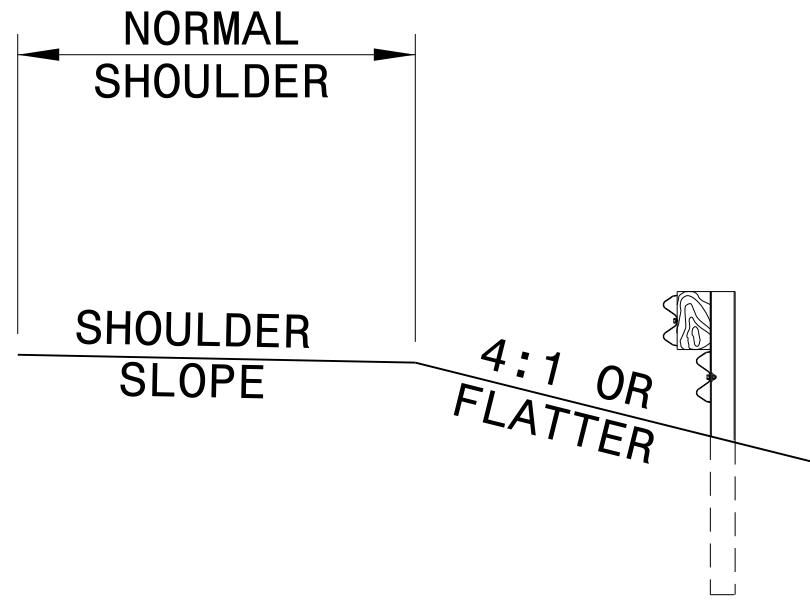
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≥ 60	13:1
55	12:1
50	11:1
45	10:1
40	9:1
30 or less	7:1



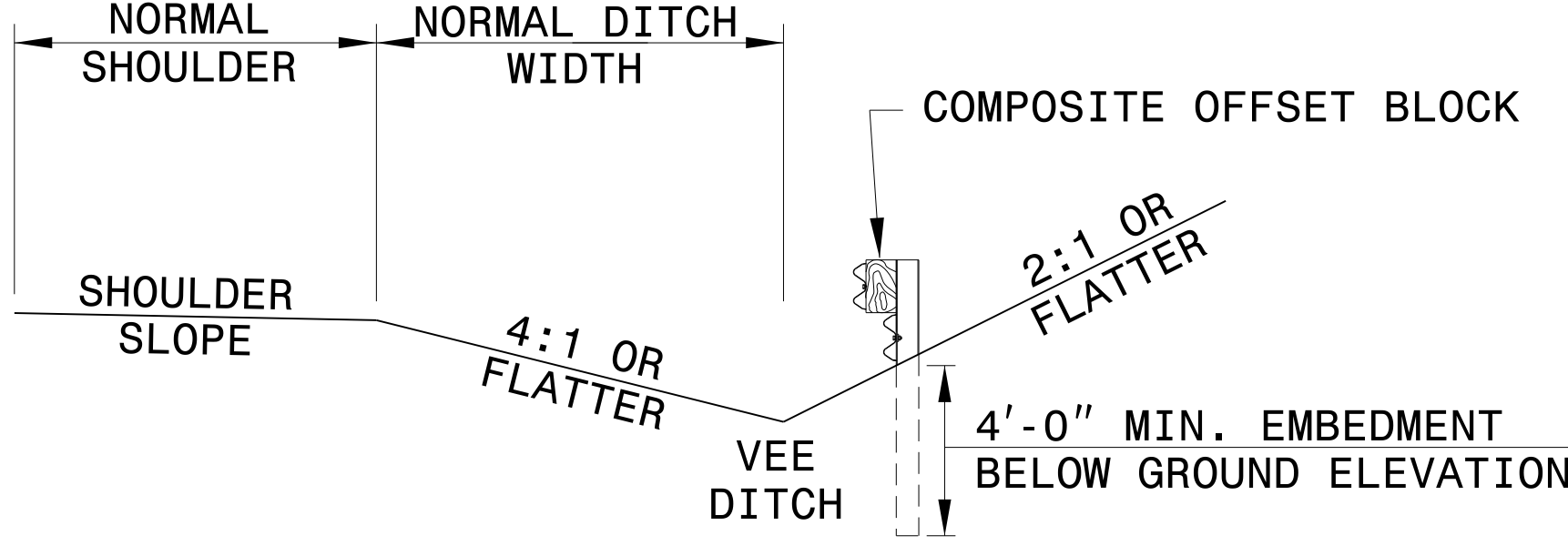
ELEVATION VIEW



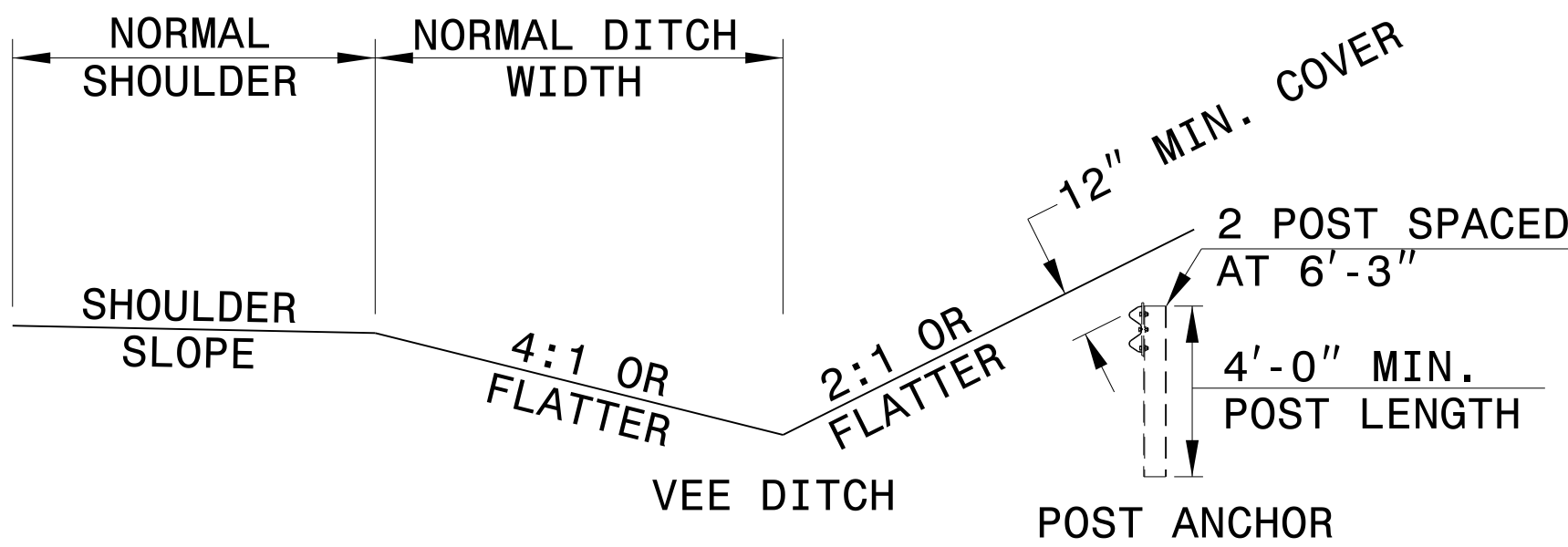
SECTION A-A



SECTION B-B
(WITH RUBRAIL)



SECTION C-C
(WITH RUBRAIL)



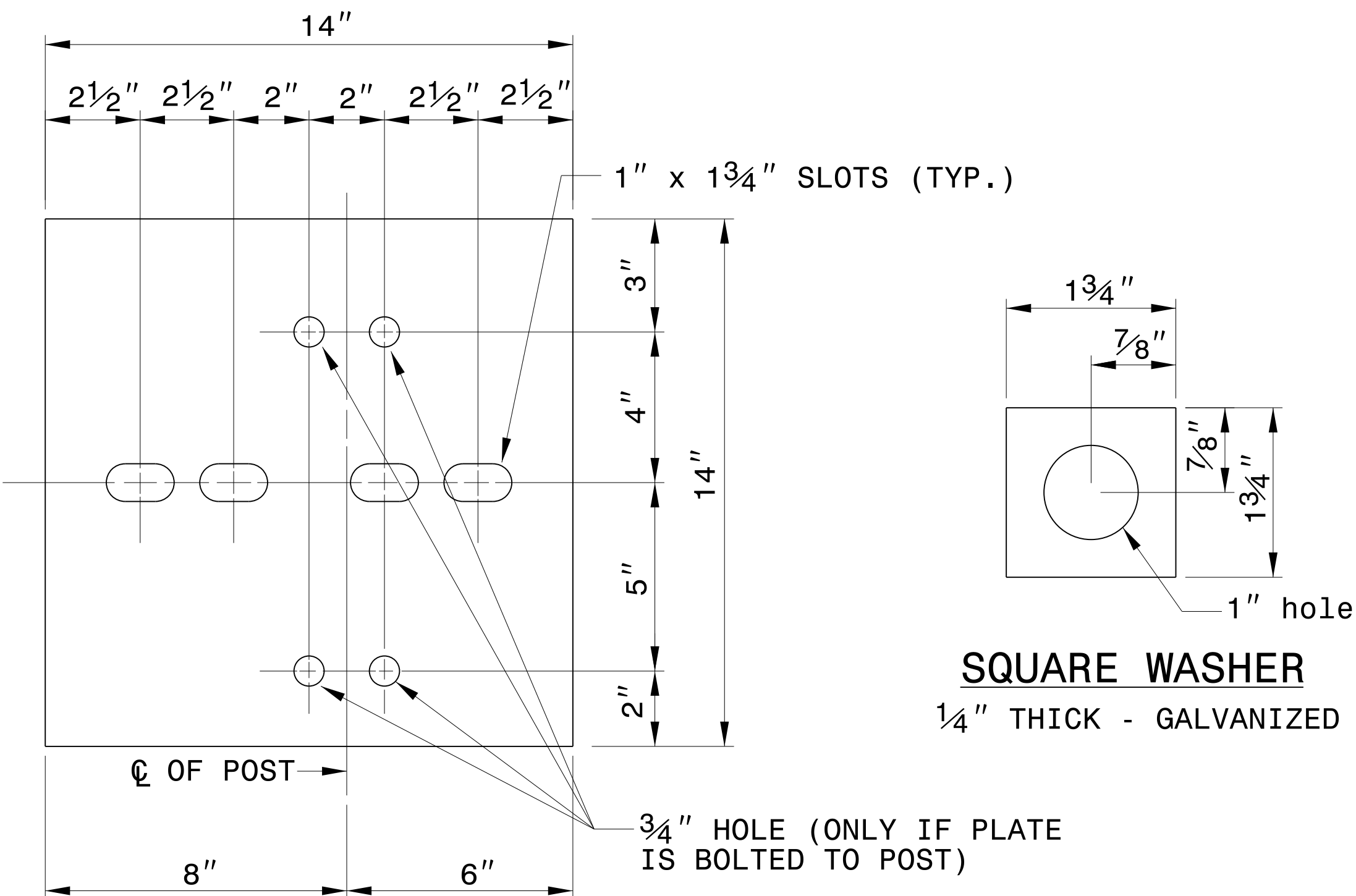
SECTION D-D

- NOTES:
- VARIABLE DITCH OFFSETS MAY BE USED TO FIT FIELD CONDITIONS.
 - HEIGHT OF GUARDRAIL MAY BE TAPERED DOWN IN ELEVATION TO MAINTAIN 3'-9" MAXIMUM HEIGHT.
 - ALL POSTS ARE 8'-0" IN LENGTH FROM WHERE THE GUARDRAIL FLARES AWAY FROM THE SHOULDER BACK TO THE DITCH FLOW LINE. GUARDRAIL POSTS BEYOND THE DITCH FLOW LINE MAY BE SHORTENED AS LONG AS A MINIMUM OF 4 FT. EMBEDMENT REMAINS BELOW THE EXISTING GROUND LINE. POST FOR POST ANCHOR MAY BE REDUCED TO 4 FT., ALL OF WHICH WILL BE BELOW GROUND.
 - REFER TO NCDOT STANDARD DRAWINGS 862.02 FOR GUARDRAIL INSTALLATION NOT COVERED IN THIS DETAIL AND INSTALL IN ACCORDANCE WITH SECTION 862 OF THE STANDARDS SPECIFICATIONS.
 - PAYMENT FOR ANY RUBRAIL INSTALLATION BEYOND BIC GUARDRAIL ANCHOR UNIT PAY LIMITS WILL BE INCIDENTAL TO PAYMENT FOR BIC ANCHOR UNIT.

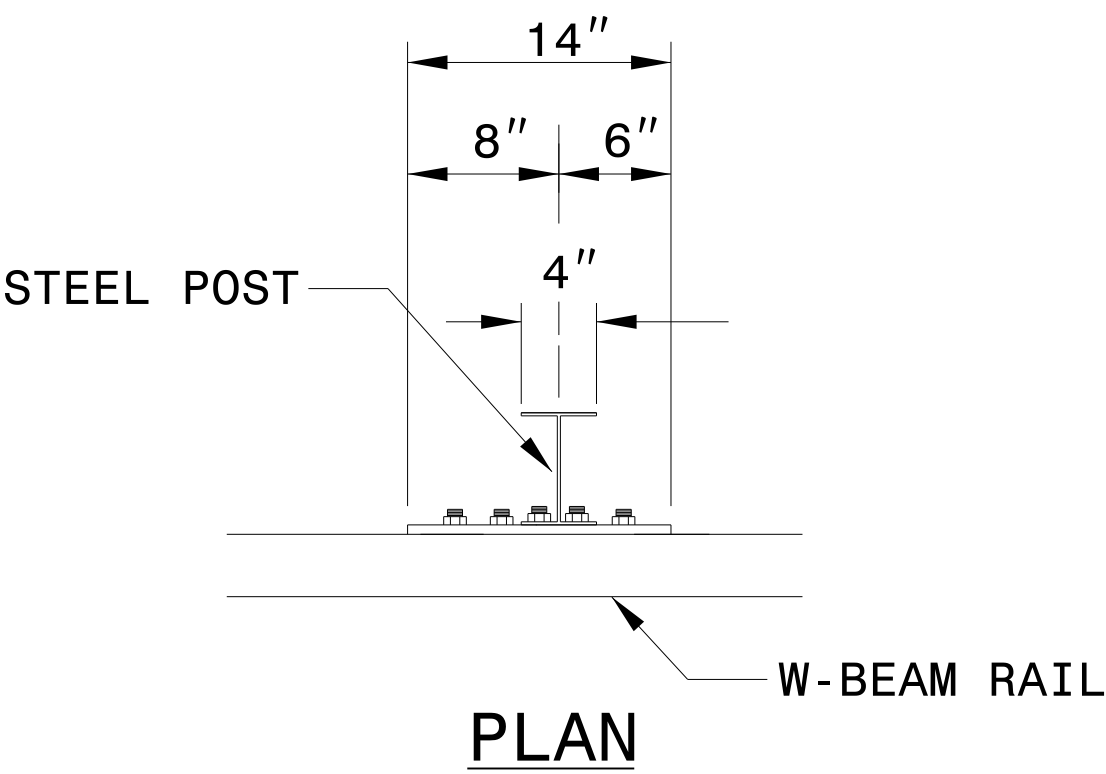
CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

DETAIL OF GUARDRAIL
BURIED IN CUT (BIC)

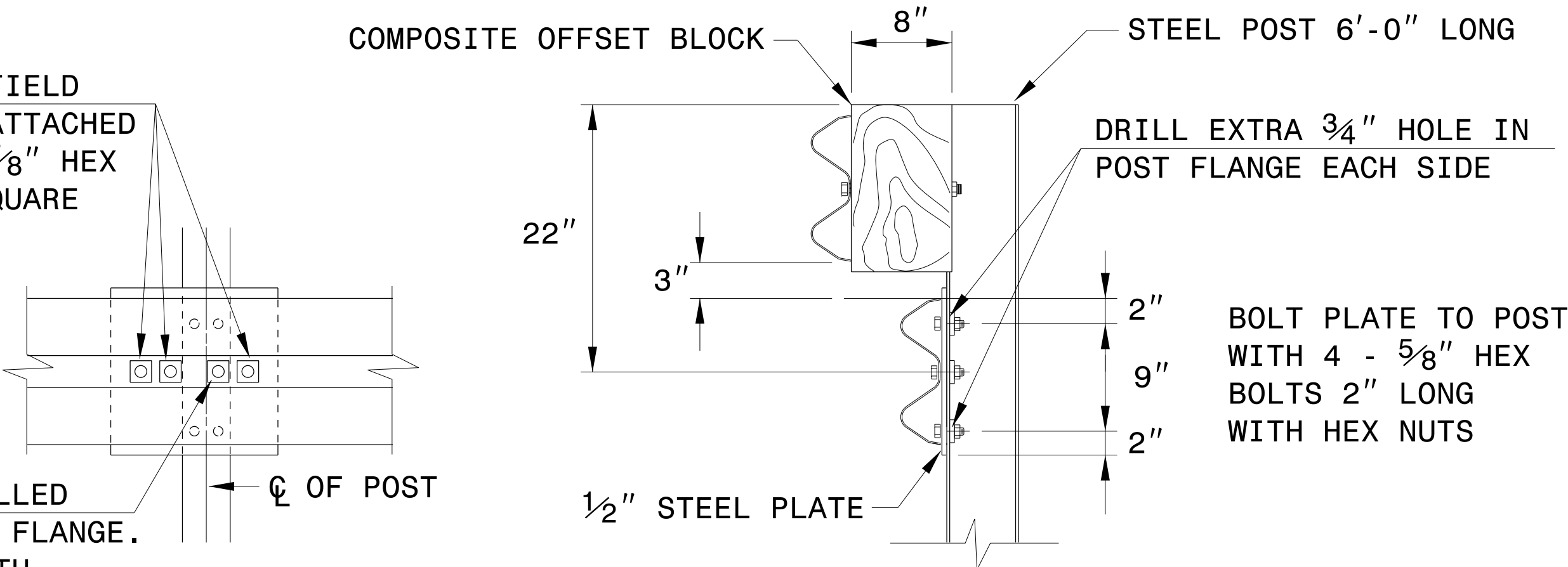
ORIGINAL BY: FHWA-G4 SYSTEM DATE: 8-13-98
MODIFIED BY: E.E. WARD DATE: 12-7-01
CHECKED BY: DATE:
FILE SPEC.: ericward/misc. guardrail/BIC.dgn



STEEL PLATE - 1/2"
GALVANIZED
WELDED OR BOLTED TO POST



3 - 7/8" HOLES TO BE FIELD DRILLED IN RAIL AND ATTACHED TO STEEL PLATE WITH 7/8" HEX BOLTS 2" LONG WITH SQUARE WASHER

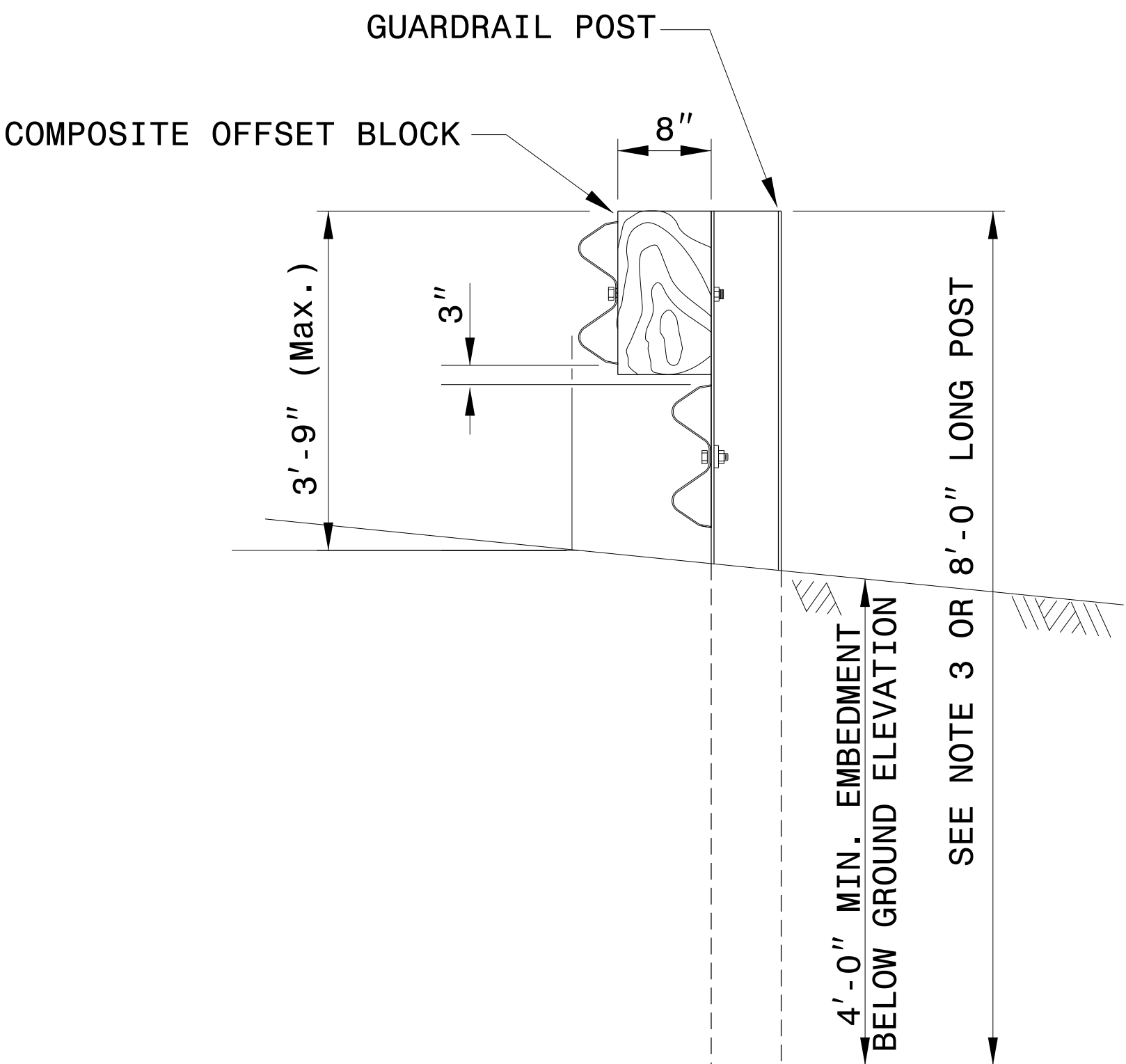


1" HOLES TO BE FIELD DRILLED IN RAIL AND THROUGH POST FLANGE. ATTACH TO STEEL PLATE WITH 7/8" HEX BOLTS 2" LONG WITH SQUARE WASHER

FRONT VIEW

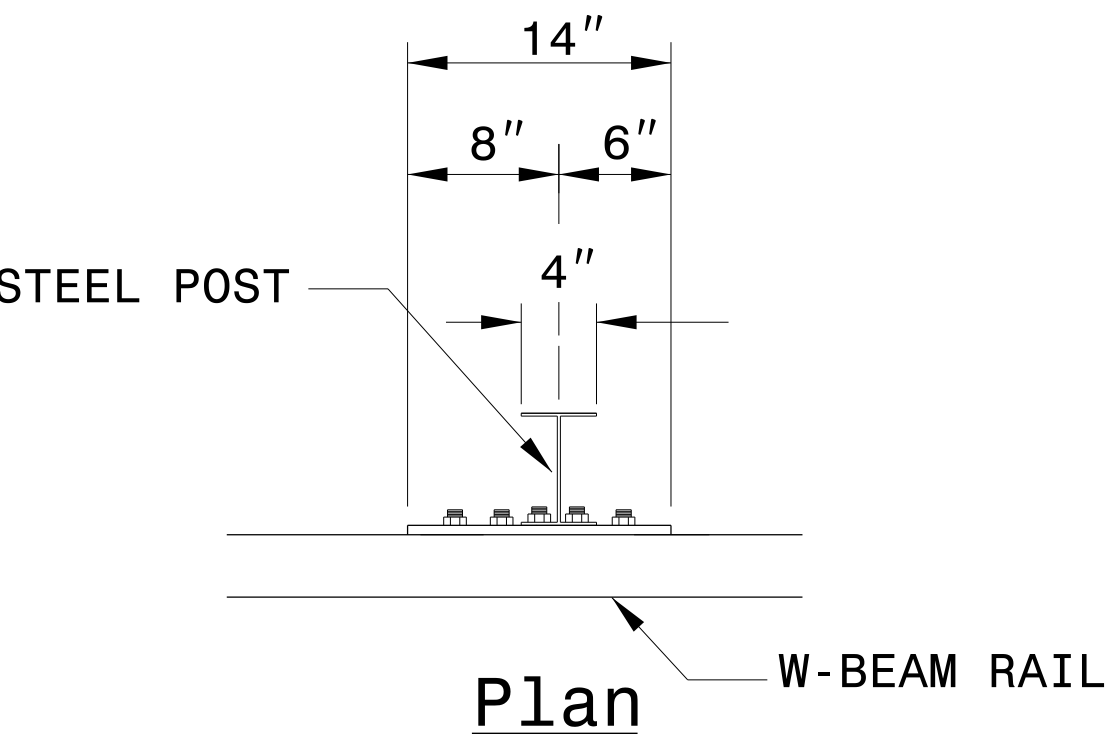
ELEVATION

RUBRAIL ANCHOR DETAILS

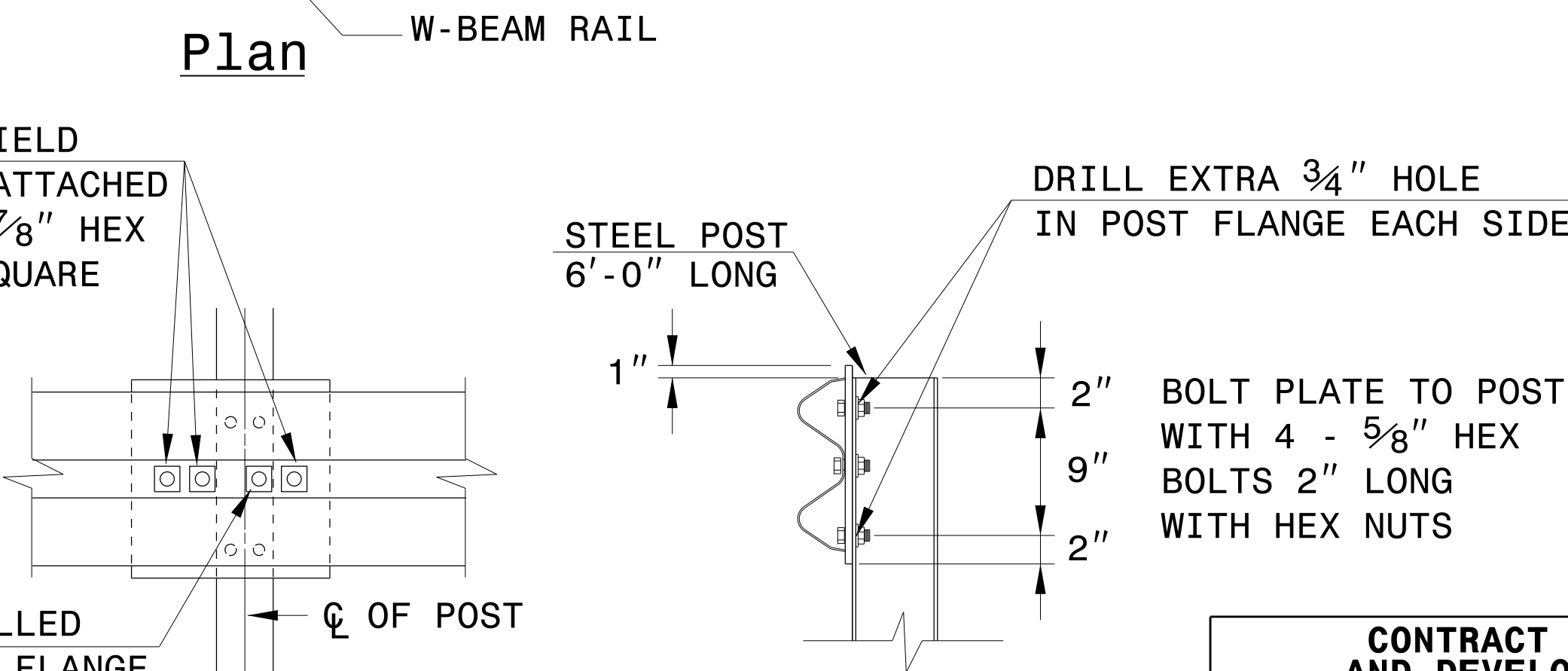


ELEVATION

RAIL ATTACHMENT DETAIL



3 - 1" HOLES TO BE FIELD DRILLED IN RAIL AND ATTACHED TO STEEL PLATE WITH 7/8" HEX BOLTS 2" LONG WITH SQUARE WASHER



1" HOLES TO BE FIELD DRILLED IN RAIL AND THROUGH POST FLANGE. ATTACH TO STEEL PLATE WITH 7/8" HEX BOLTS 2" LONG WITH SQUARE WASHER.

FRONT VIEW

ELEVATION

POST ANCHOR DETAILS

84 MAY-2017 1514
C:\projects\Special Details\Standard Drawings\Details in Lieu of Standards\Division 8\862d01 862d03 862d01.dgn
JHOWERTON AT CS0-292595

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

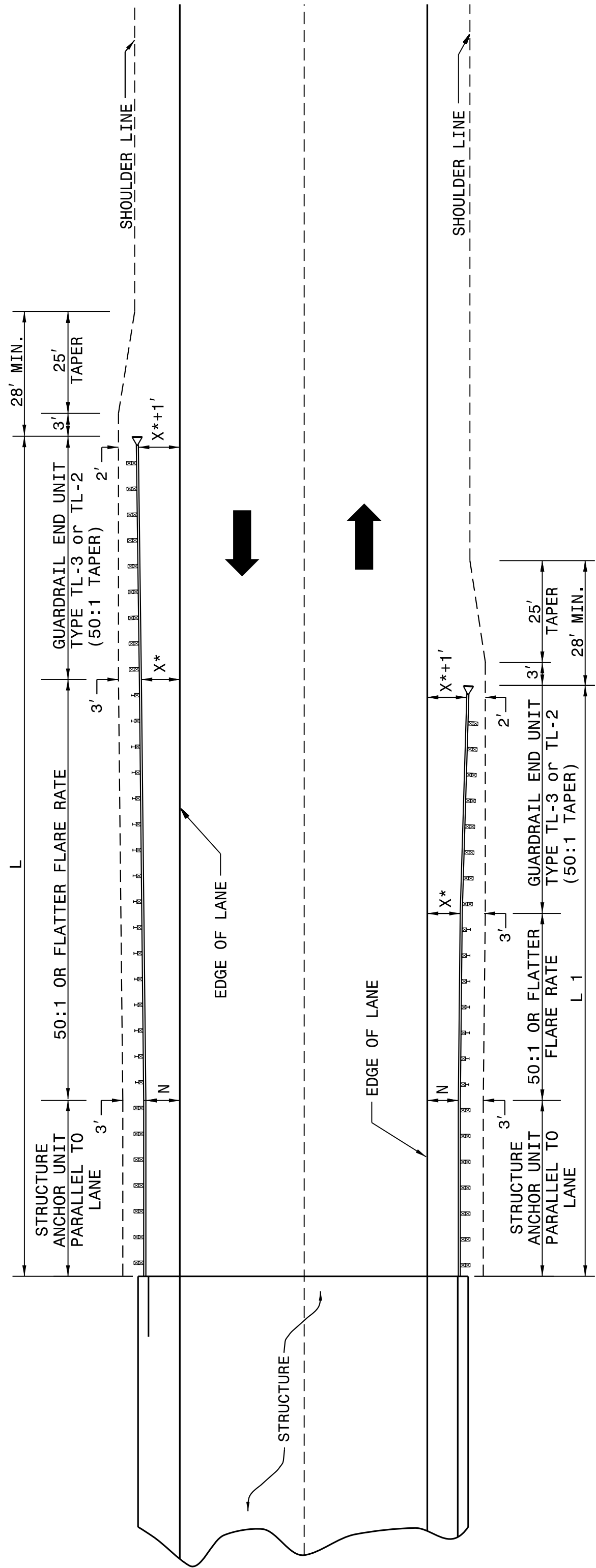
ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 4 OF 11
862D01

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

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 4 OF 11
862D01



* USE FLARE RATE AS THE CONTROL IF THE "X" DISTANCE IS NOT OBTAINED.
("X" IS BASED ON SHOULDER WIDTHS IN THE HIGHWAY DESIGN BRANCH
MANUAL, PART 1, 1-4B, F1).

"N"= DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL WHERE GUARDRAIL IS
PARALLEL TO LANE.

SEE STD. 862.03 FOR STRUCTURE ANCHOR UNITS

FOR POSTED SPEEDS ≥ 45mph USE GREU TYPE TL-3

FOR POSTED SPEEDS < 45mph USE GREU TYPE TL-2

GUARDRAIL INSTALLATION AT BRIDGE APPROACHES
FOR TWO-LANE, TWO-WAY TRAFFIC

DESIGN SPEED (MPH)	"L" APPROACH LENGTH (FT.)		"L1" TRAILING LENGTH (FT.)			
	DESIGN YEAR ADT	CURRENT YEAR ADT	DESIGN YEAR ADT	CURRENT YEAR ADT	DESIGN YEAR ADT	CURRENT YEAR ADT
OVER 2000	1001- 2000	400- 1000	UNDER 400	OVER 2000	1001- 2000	400- 1000
70	362.5'	362.5'	350.0'	287.5'	187.5'	175.0'
60	300.0'	287.5'	275.0'	225.0'	137.5'	100.0'
50	212.5'	212.5'	200.0'	162.5'	87.5'	75.0'
40	175.0'	150.0'	137.5'	112.5'	75.0'	75.0'
X *	8'	6'	4'	4'	8'	4'

LENGTHS AND OFFSETS FOR PROPOSED GUARDRAIL AT TWO LANE - TWO WAY LOCATIONS

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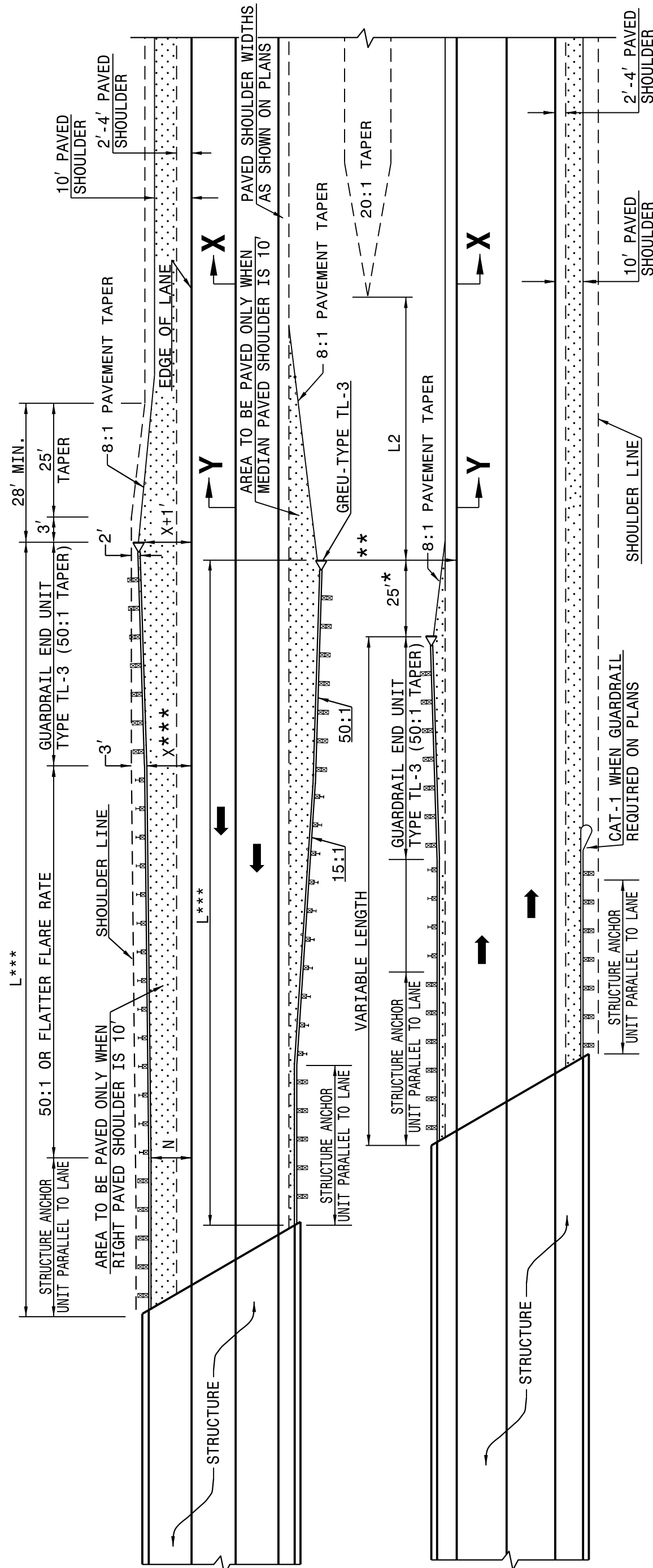
ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 3 OF 11
862D01

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RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 3 OF 11
862D01



FOR POSTED SPEEDS ≥ 45mph USE GREU TYPE TL-3
FOR POSTED SPEEDS < 45mph USE GREU TYPE TL-2

NOTES: * MINOR VARIATION TO THE 25'-0" DIMENSION IS PERMISSIBLE TO ACCOMMODATE THE 12'-6" IN
GUARDRAIL LENGTHS.

** NO GUARDRAIL IS REQUIRED ON THE TRAILING END WHEN THIS DISTANCE EXCEEDS CLEAR ROADSIDE
RECOVERY AREA FOR THE APPROPRIATE DESIGN SPEED.

*** BASED ON "X" OF 12'

USE FLARE RATE AS THE CONTROL IF THE "X" DISTANCE IS NOT OBTAINED. ("X" IS BASED ON
SHOULDER WIDTHS IN THE HIGHWAY DESIGN BRANCH MANUAL, PART 1, 1-4B, F1A).

"N"= DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL WHERE GUARDRAIL IS PARALLEL TO LANE.
THE DESIGN LAYOUT FOR LENGTHS SHOWN ON THIS STANDARD ARE MINIMUM DESIGN LENGTHS.

SEE SHEET 1 OF 12 FOR SECTIONS XX, YY

SEE STD. 862.03 FOR STRUCTURE ANCHOR UNITS

DETAIL OF GUARDRAIL APPROACHING DUAL LANE BRIDGES

CONTRACT STANDARDS
AND DEVELOPMENT UNIT
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SEE TITLE BLOCK

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Jul S. Howerton/2017
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SEAL
022966
ENGINEER
JUL S. HOWERTON

PROJECT REFERENCE NO.
W-5601AH

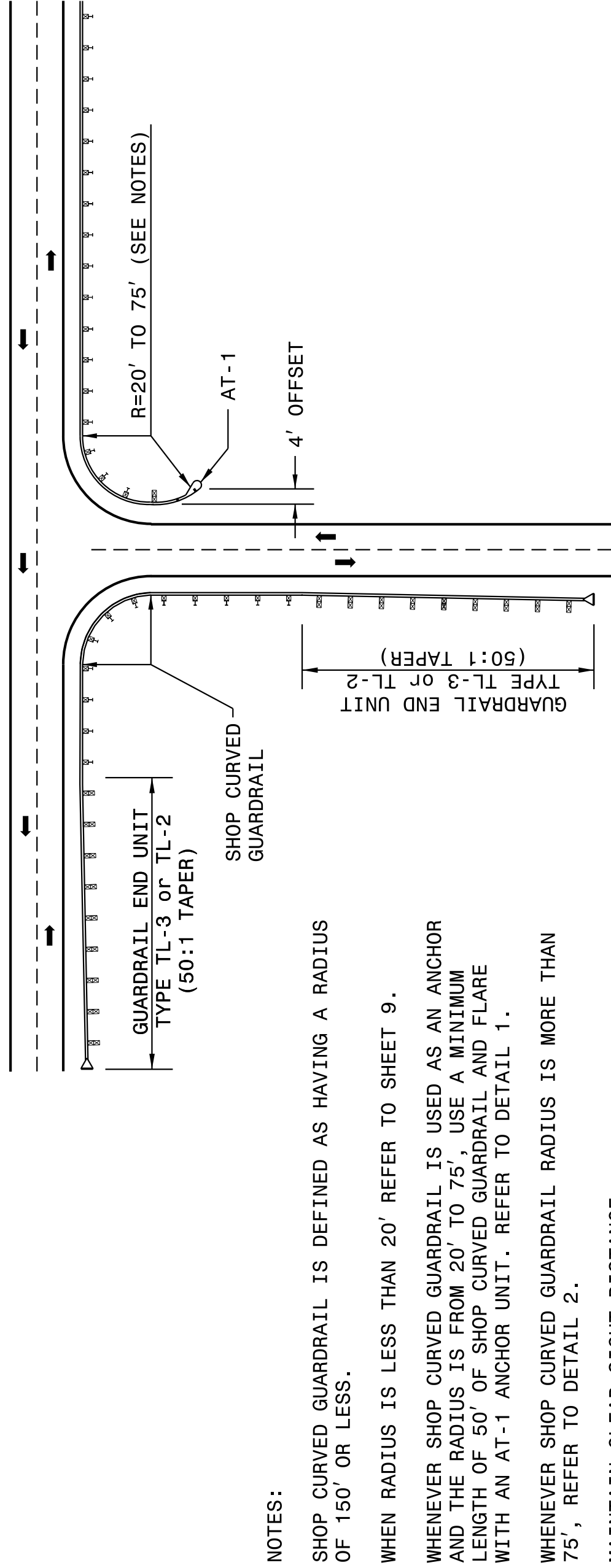
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2-E

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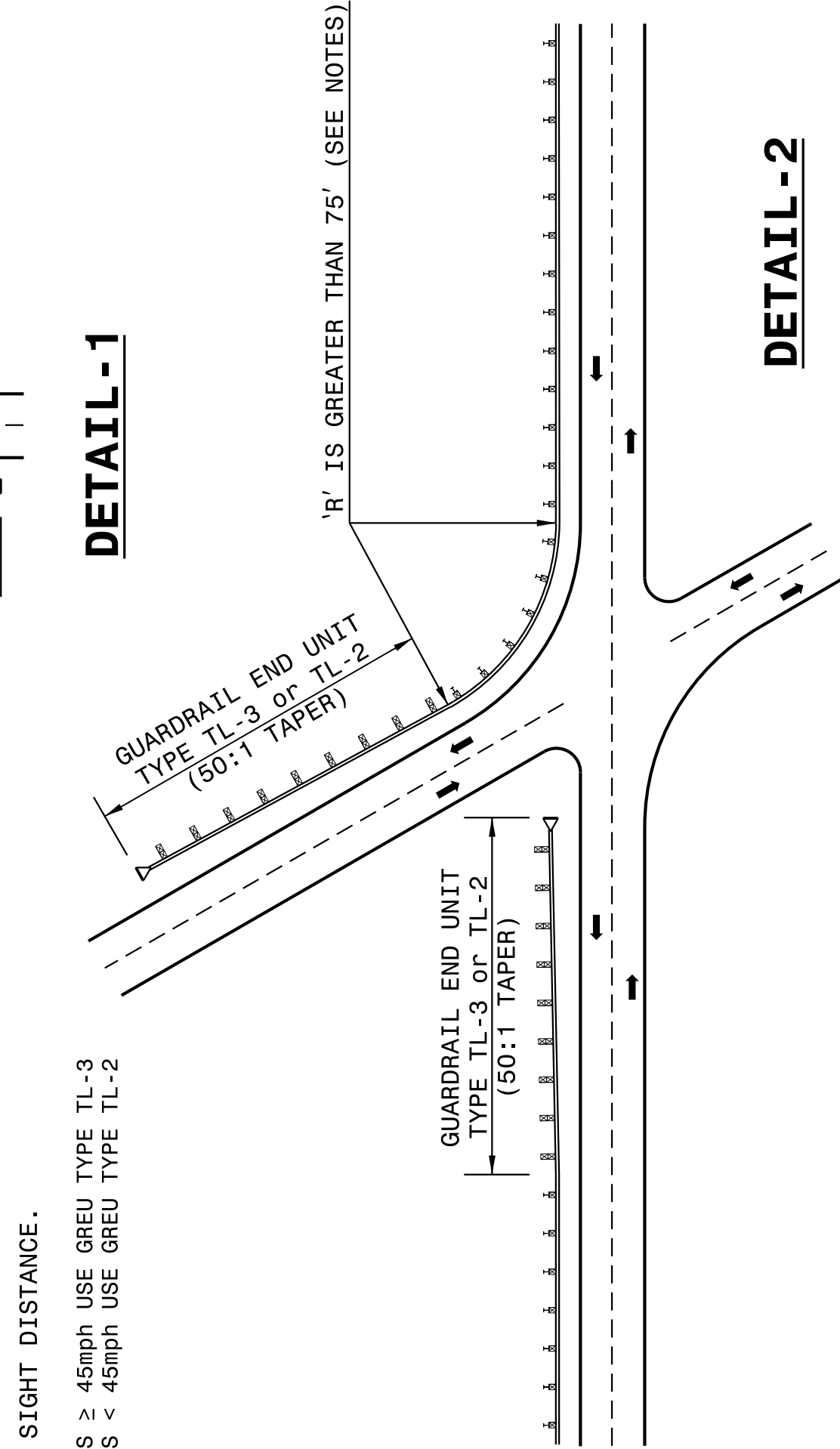
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RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 8 OF 11
862D01



DETAIL-1



DETAIL-2

GUARDRAIL TREATMENT AT INTERSECTIONS

SHEET 8 OF 11
862D01

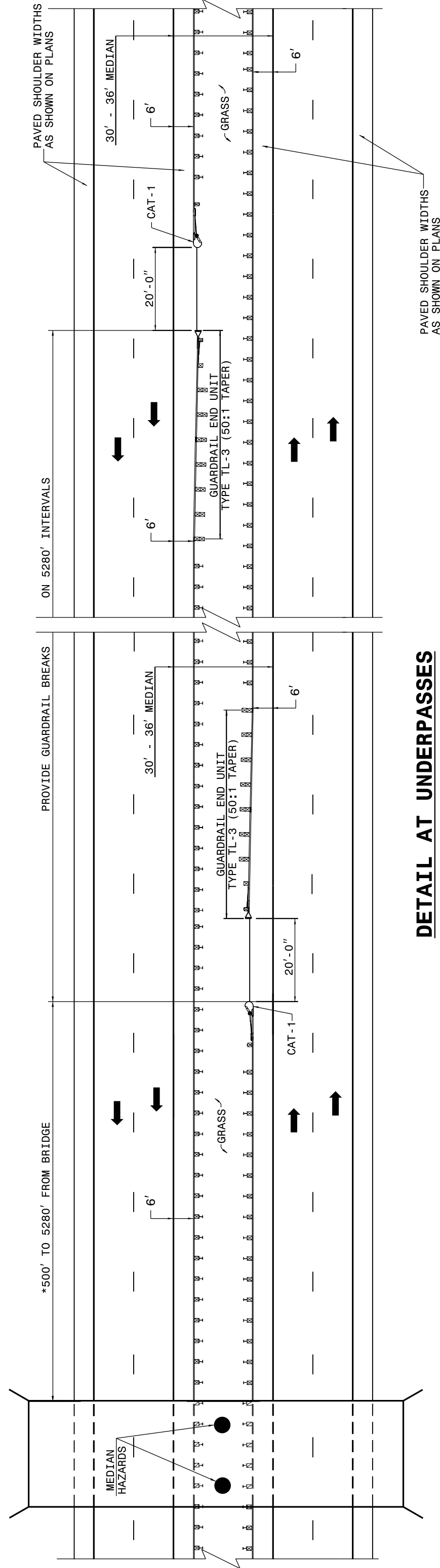
ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

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DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

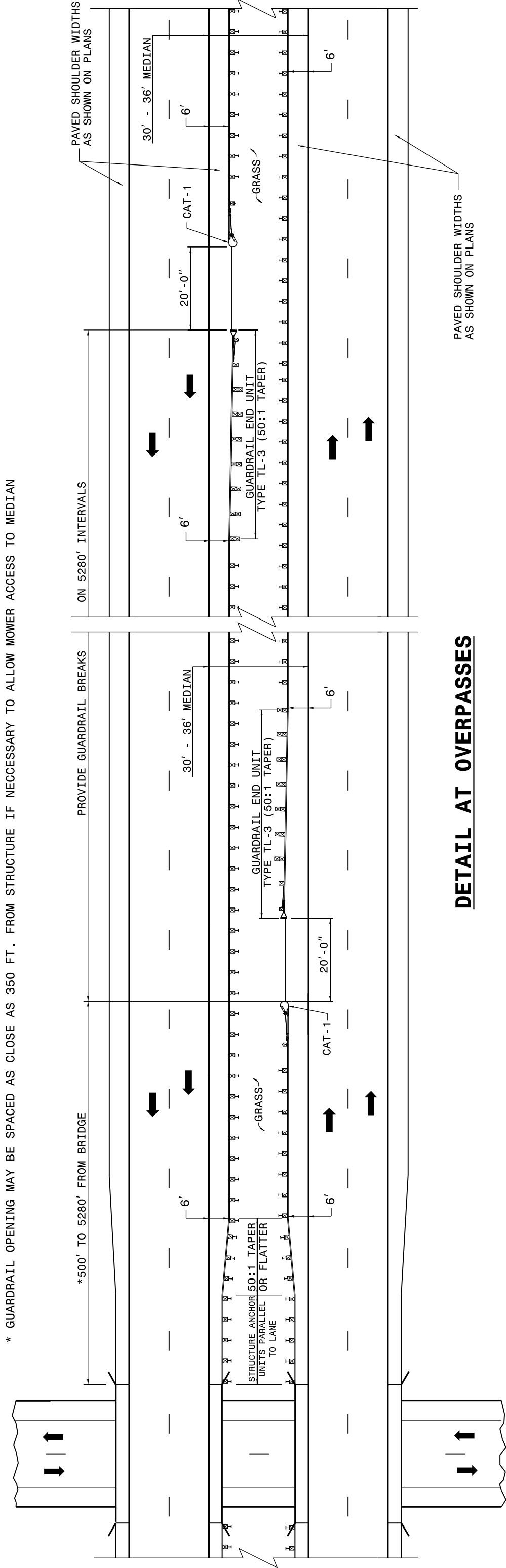
ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 7 OF 11
862D01



DETAIL AT UNDERPASSES

* GUARDRAIL OPENING MAY BE SPACED AS CLOSE AS 350 FT. FROM STRUCTURE IF NECESSARY TO ALLOW MOWER ACCESS TO MEDIAN



DETAIL AT OVERPASSES

FOR POSTED SPEEDS $\geq$ 45mph USE GREU TYPE TL-3
FOR POSTED SPEEDS $<$ 45mph USE GREU TYPE TL-2

GUARDRAIL BREAK INTERVALS WITH 30' - 36' MEDIANS

SHEET 7 OF 11
862D01

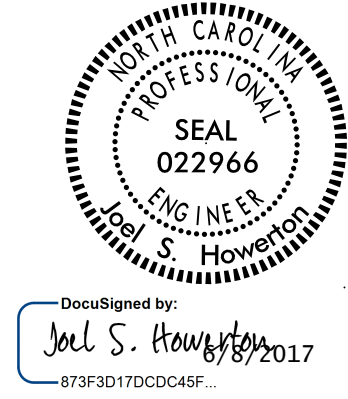
ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

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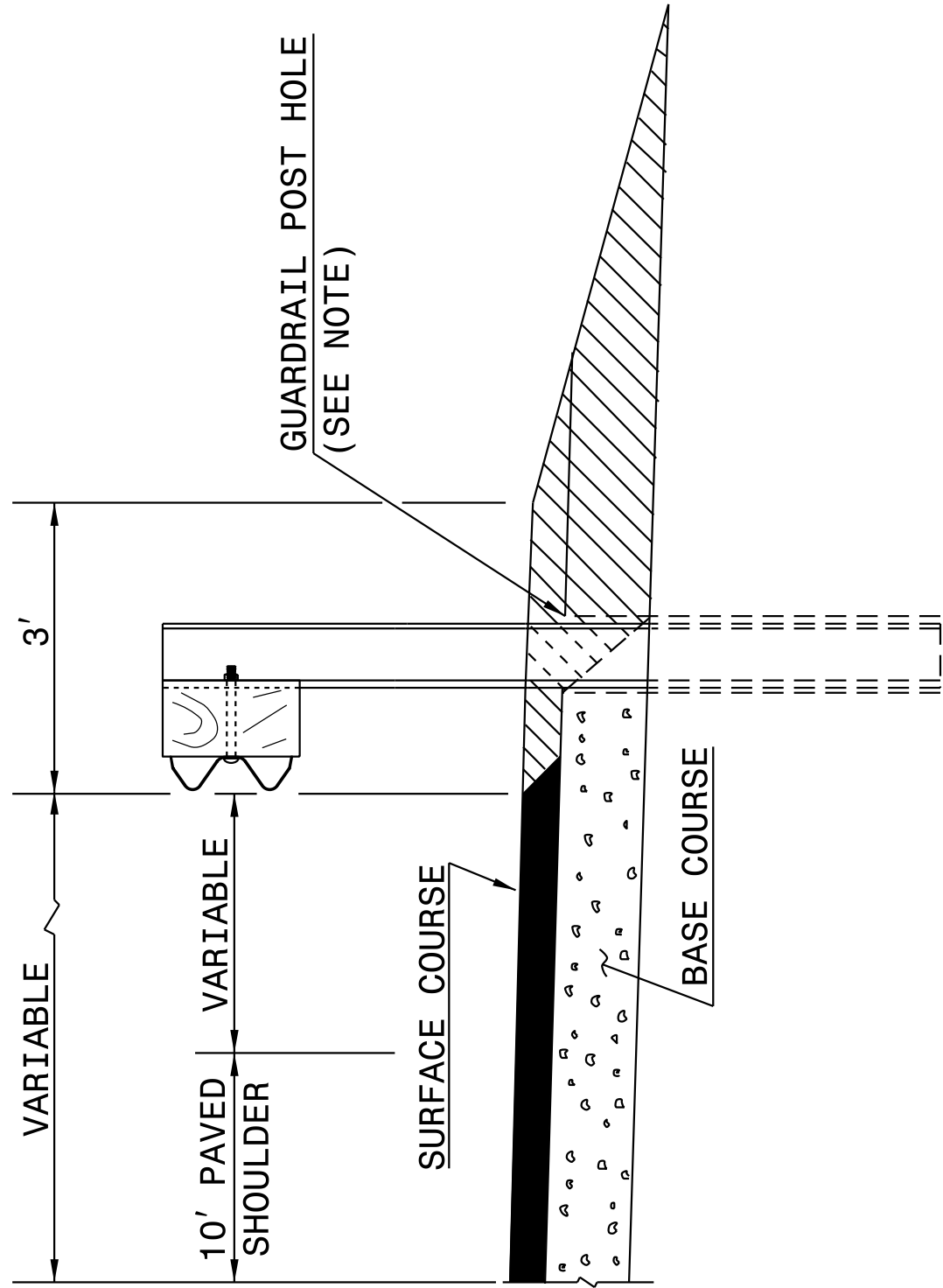
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ENGLISH DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 10 OF 11
862D01

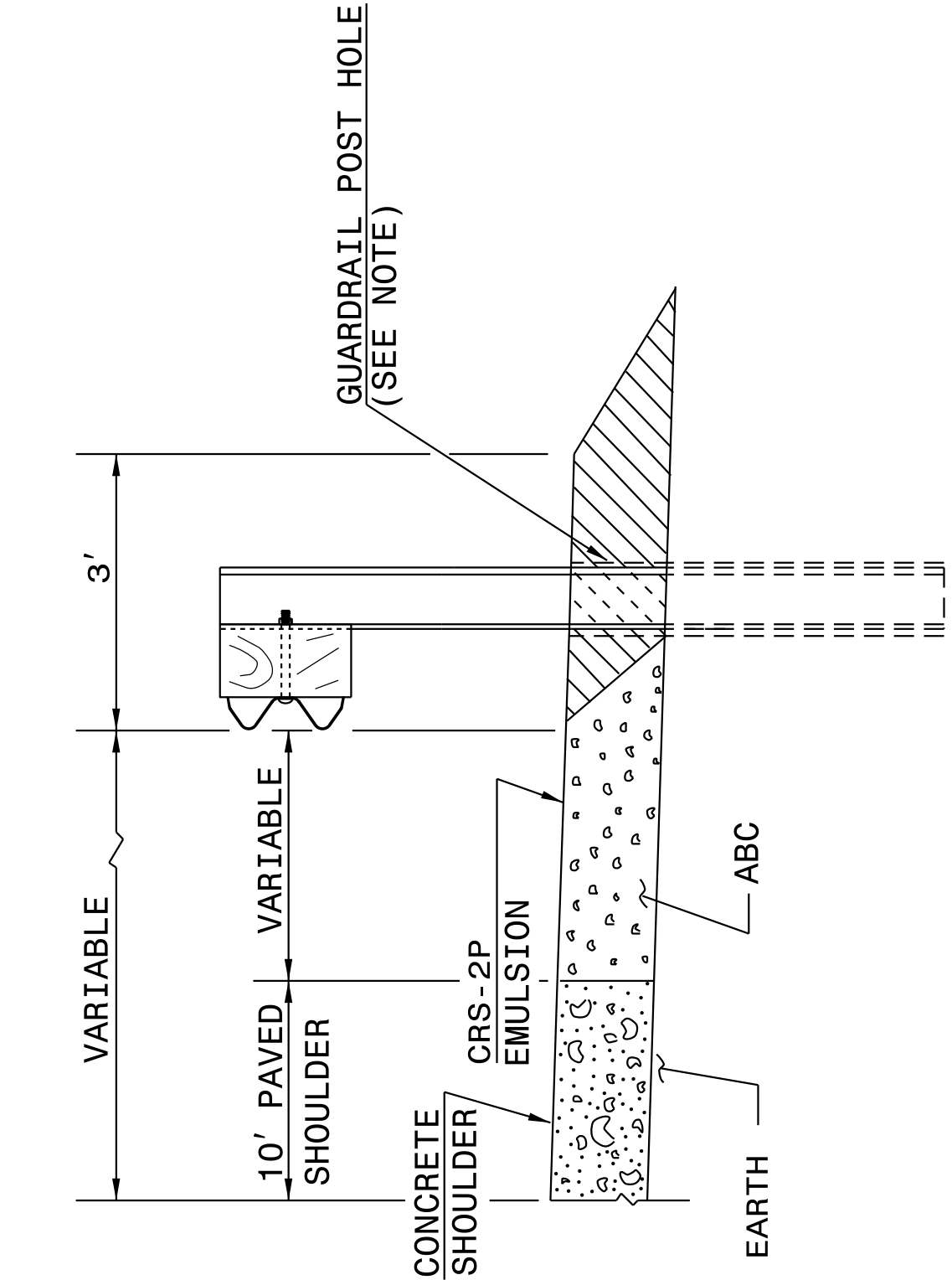


FLEXIBLE PAVED SHOULDER



EARTH MATERIAL

NOTE:
WHEN WOODEN GUARDRAIL POSTS ARE USED, DRILL HOLES THROUGH EARTH MATERIAL AND BASE COURSE. THE POST MAY THEN BE DRIVEN TO THE PROPER DEPTH. DRILL THE HOLE OF SUFFICIENT SIZE TO ACCOMMODATE THE PARTICULAR POST BEING USED. BACKFILL AND TAMP HOLES USING THE EXCAVATED MATERIAL.



CONCRETE PAVED SHOULDER

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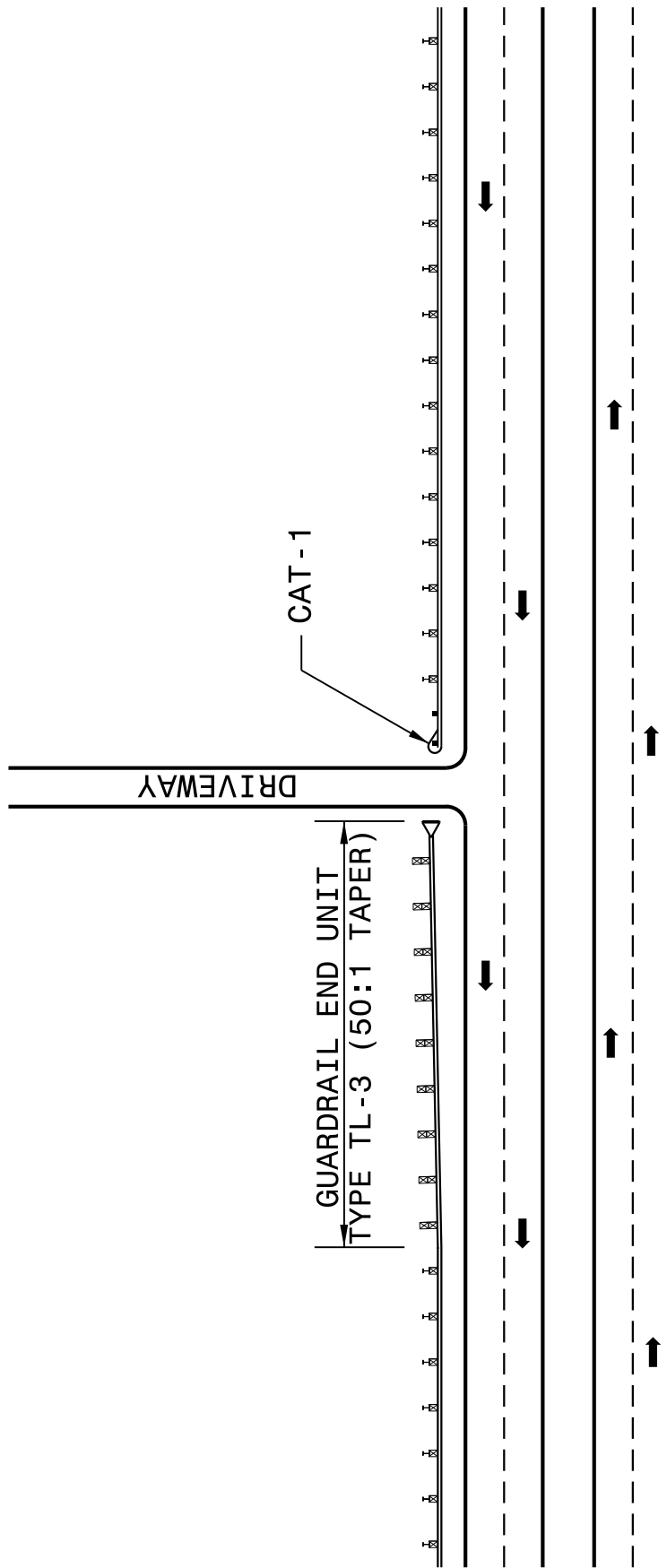
ENGLISH DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 10 OF 11
862D01

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ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 9 OF 11
862D01

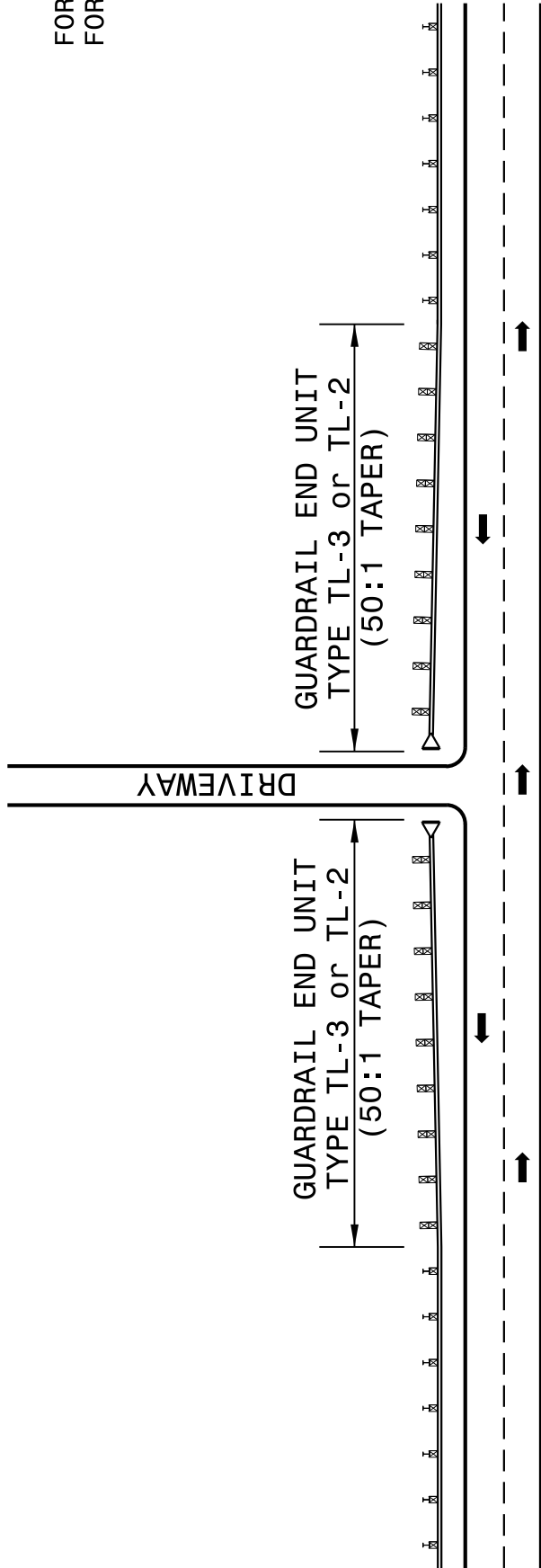


DETAIL-3

DIVIDED HIGHWAY

NOTE:
USE DETAIL 3 & 4 WHENEVER
20' OR LARGER RADIUS CANNOT
BE UTILIZED.
MAINTAIN CLEAR SIGHT DISTANCE.

FOR POSTED SPEEDS $\geq$ 45mph USE GREU TYPE TL-3
FOR POSTED SPEEDS $<$ 45mph USE GREU TYPE TL-2



DETAIL-4

UNDIVIDED HIGHWAY

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 9 OF 11
862D01

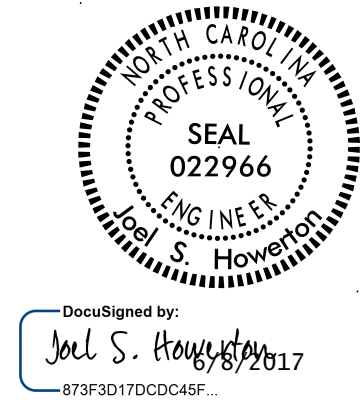
GUARDRAIL TREATMENT AT DRIVEWAYS

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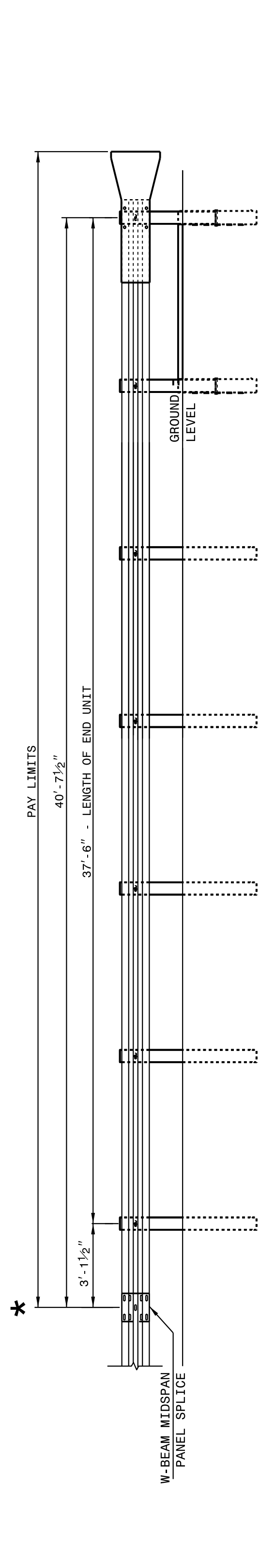
ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 2 OF 8
862D02

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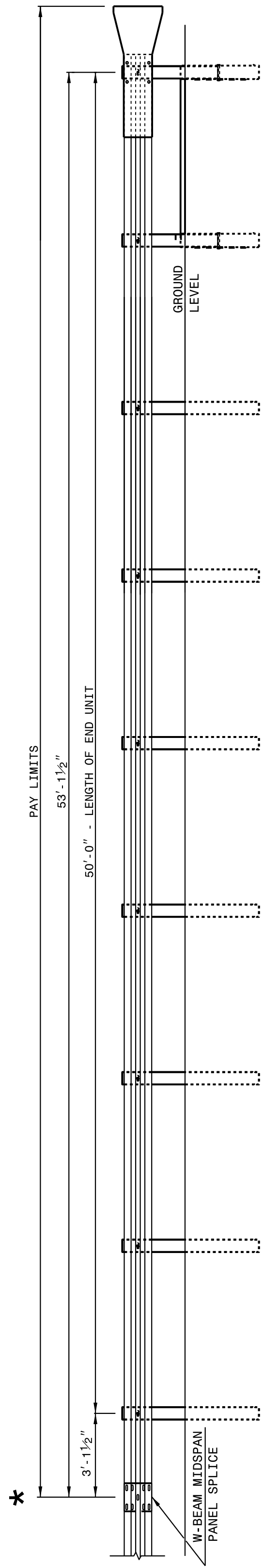
ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 2 OF 8
862D02



FLARED AND TANGENT
ELEVATION VIEW

★ WHEN INSTALLING GUARDRAIL END UNITS THAT ARE 2'-1" MOUNTING HEIGHT TO EXISTING GUARDRAIL, REMOVE THE EXISTING GUARDRAIL TO TRANSITION FROM THE EXISTING HEIGHT TO THE PROPOSED 2'-1" HEIGHT. SEE 862.02, SHEET 4 OF 8 FOR TRANSITION DETAILS.



FLARED AND TANGENT
ELEVATION VIEW

APPROACH END UNITS

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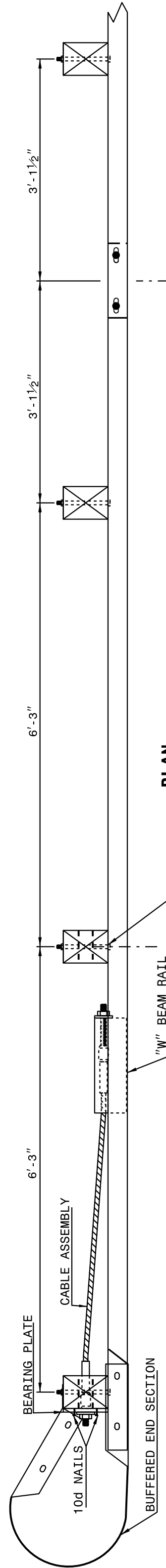
ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 1 OF 8
862D02

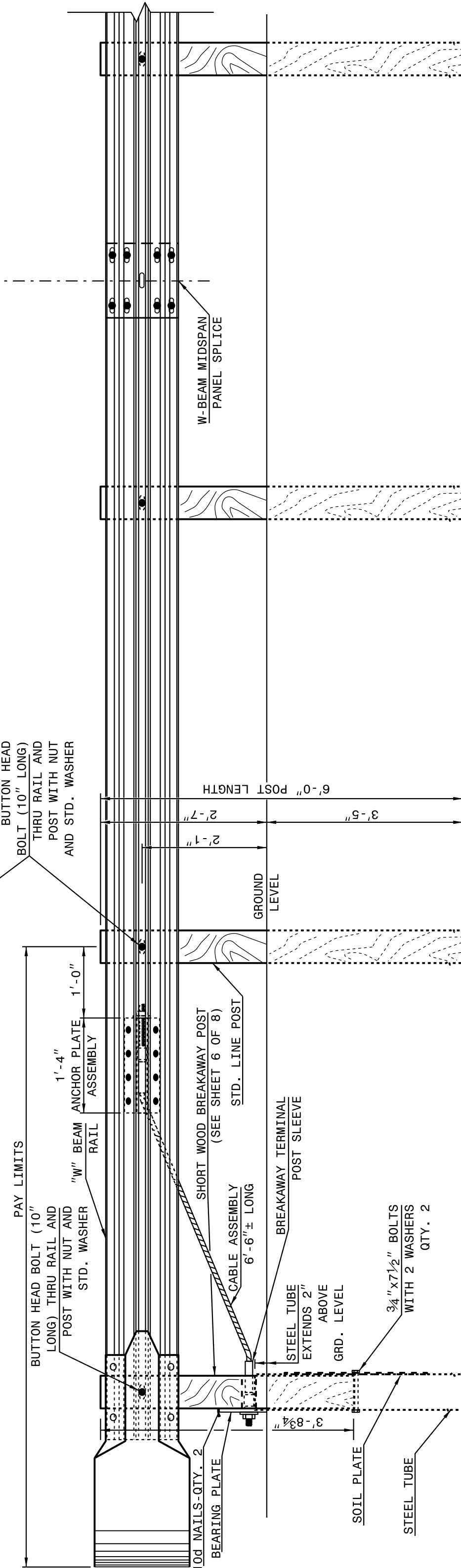
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ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 1 OF 8
862D02



PLAN



ELEVATION

TRAILING END UNIT ASSEMBLY

C.A.T.-1 SYSTEM

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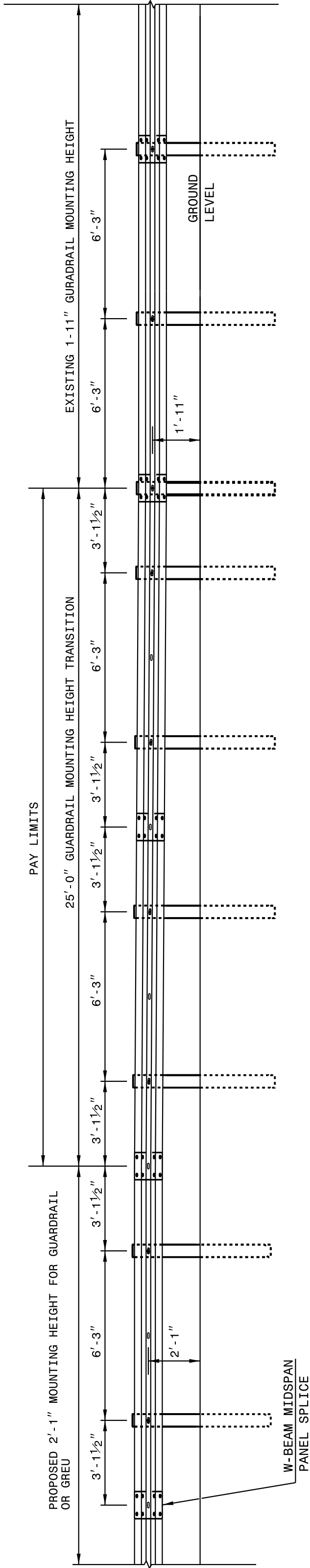
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ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 4 OF 8
862D02

NOTE: IF EXISTING GUARDRAIL IS LOWER THAN 1'-11", USE AN ADDITIONAL 12'-6" LONG SECTION OF GUARDRAIL, FOR EVERY 1" OF HEIGHT DIFFERENCE, TO TRANSITION FROM EXISTING GUARDRAIL TO PROPOSED 2'-1" GUARDRAIL.



ELEVATION VIEW

TRANSITION FROM OR 1'-11" TO 2'-1" W-BEAM GUARDRAIL MOUNTING HEIGHT

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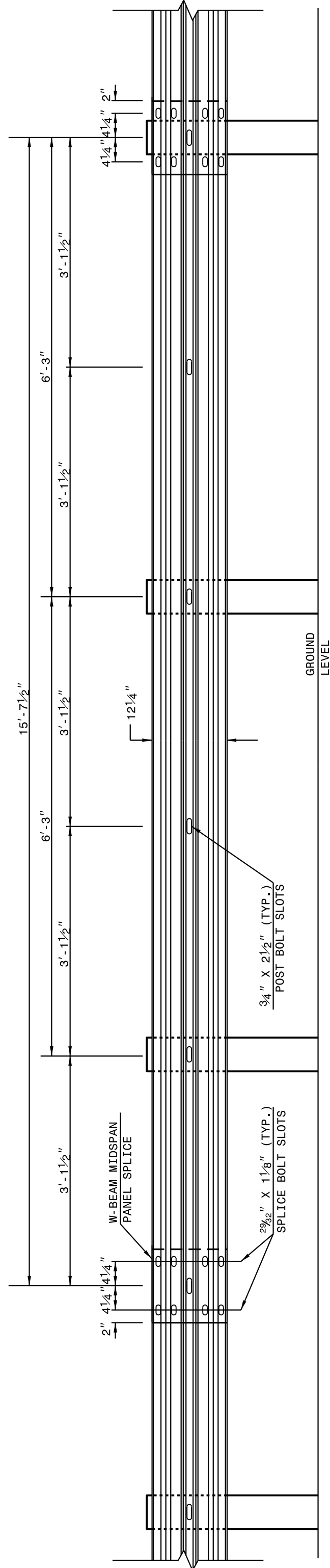
ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 4 OF 8
862D02

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ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 3 OF 8
862D02



15'-7 1/2" W-BEAM GUARDRAIL PANEL

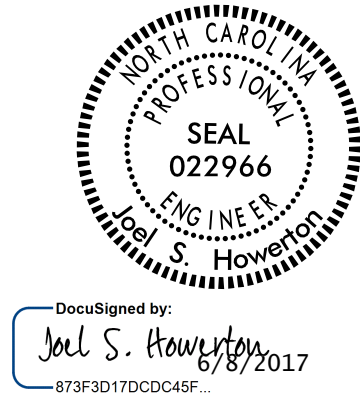
NOTE: USE 5-SPACE 15'-7 1/2" W-BEAM GUARDRAIL PANEL AT THE DOWNSTREAM END OF AN END UNIT OR EXISTING GUARDRAIL THAT DOES NOT OFFSET THE W-BEAM PANEL SPLICE TO MIDSPAN

SEE TITLE BLOCK

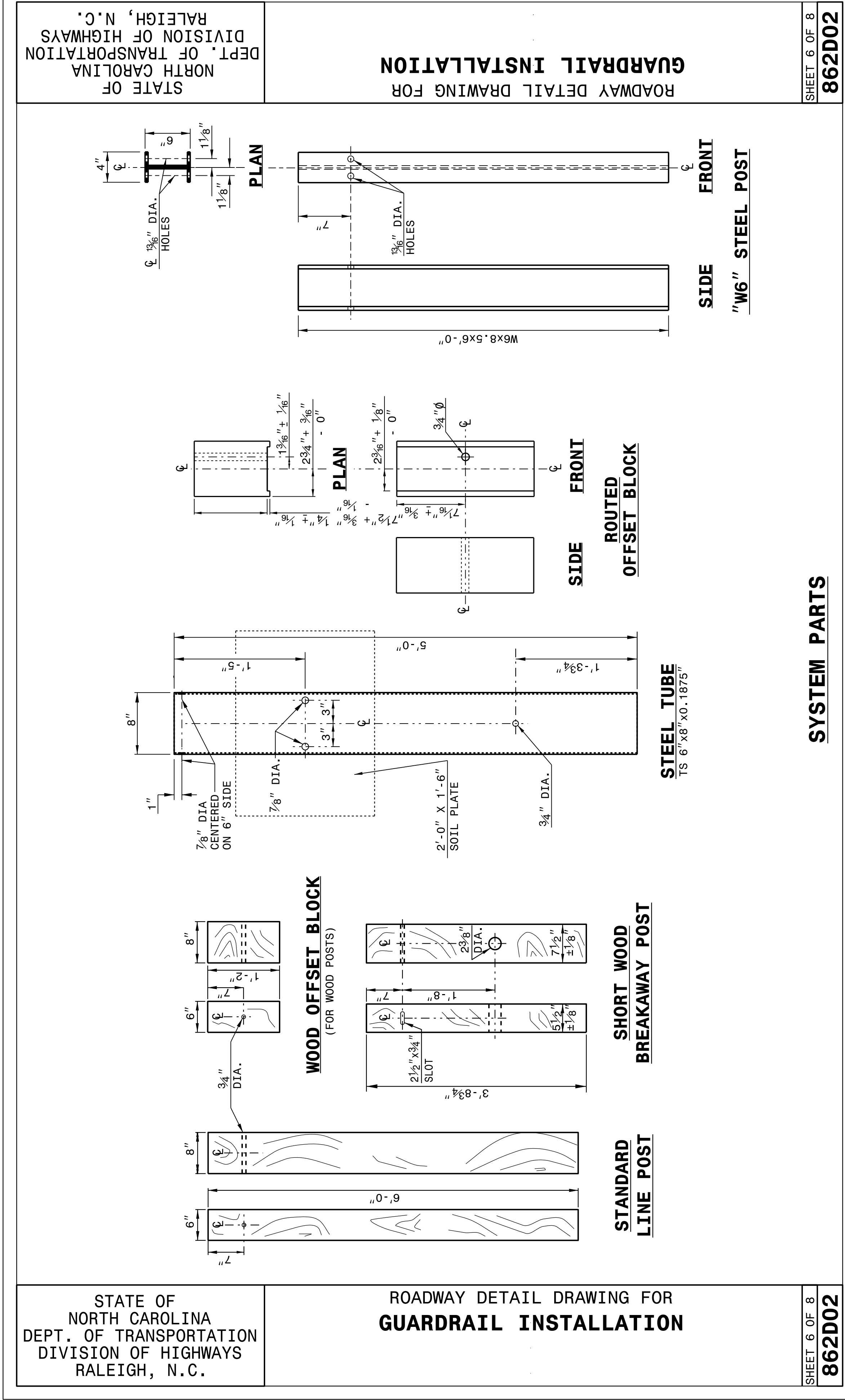
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J.Howerton N.C. 05/22/2017



PROJECT REFERENCE NO.	SHEET NO.
W-5601AH	2-L

SUMMARY OF EARTHWORK
[IN CUBIC YARDS]

STATION	STATION	UNCL. EXCAV.	EMBANK. + %	BORROW	WASTE
-L- 11+00	19+50	138	86	—	52
SUBTOTALS:		138	86	—	52
-L- 19+50	28+00	1,291	281	—	1,010
SUBTOTALS:		1,291	281	—	1,010
COMBINED TOTAL:		1,429	367	—	1,062
LOSS DUE TO CLEARING & GRUBBING		- 60			- 60
GRAND TOTAL:		1,369	367	—	1,002
SAY:		1,400			
SHOULDER BORROW		430 CY			

Earthwork quantities are calculated by the Divsion Design Construct Unit.

Approximate quantites only . Clearing and Grubbing, Unclassified Excavation, Fine Grading, and Shoulder Borrow will be paid for at the contract lump sum price for "Grading."

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

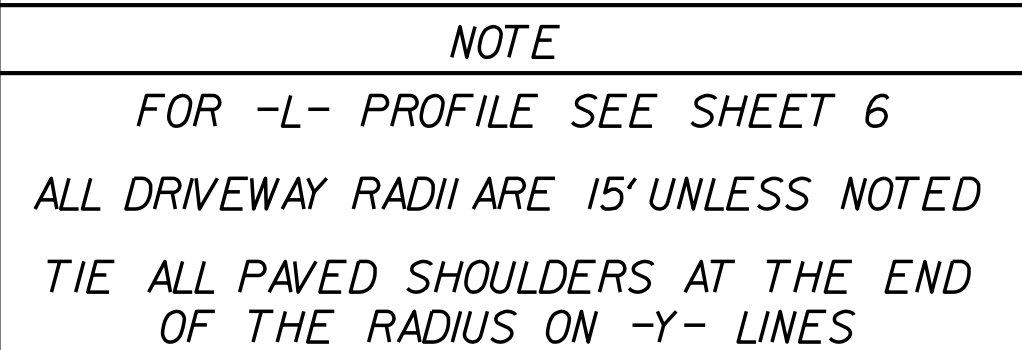
SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS		
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GREU	M-350	XIII	CAT-1	VI MOD	BIC	AT-1	EA	G					NG	
-L-	10+70.00	13+45.00	LT	325			-L- 10+70.00 LT	-L- 13+95.00 LT	6	9												1							REMOVE & REPLACE EXIST. GUARDRAIL (ATTACH APPROACH END TO EXIST.)		
-L-	19+72.00	21+08.00	LT	112.5	43.75		-L- 19+76.00 LT	-L- 20+58.00 LT	6	9												1	1						REMOVE & REPLACE EXIST. GUARDRAIL [-L- 19+85 TO 21+35 LT]		
-L-	25+84.00	28+09.00	LT	225			-L- 26+34.00 LT	-L- 27+59.00 LT	6	9	50	50	1	1			2												REMOVE & REPLACE EXIST. GUARDRAIL [-L- 25+92 TO 28+09 LT]		
	LESS INCLUDED ANCHOR DEDUCTIONS:																														
	BIC	2 @ 50.0'	=	- 100																											
	AT-1	1 @ 6.25'	=		- 6.25																										
	GREU, TL-3	2 @ 50.0'	=	- 100																											
PROJECT SUBTOTAL:				462.5	37.5	N/A					PROJECT TOTAL NEW ANCHOR UNITS REQUIRED:						2						2	1							
ADDITIONAL GUARDRAIL POSTS:					15																										

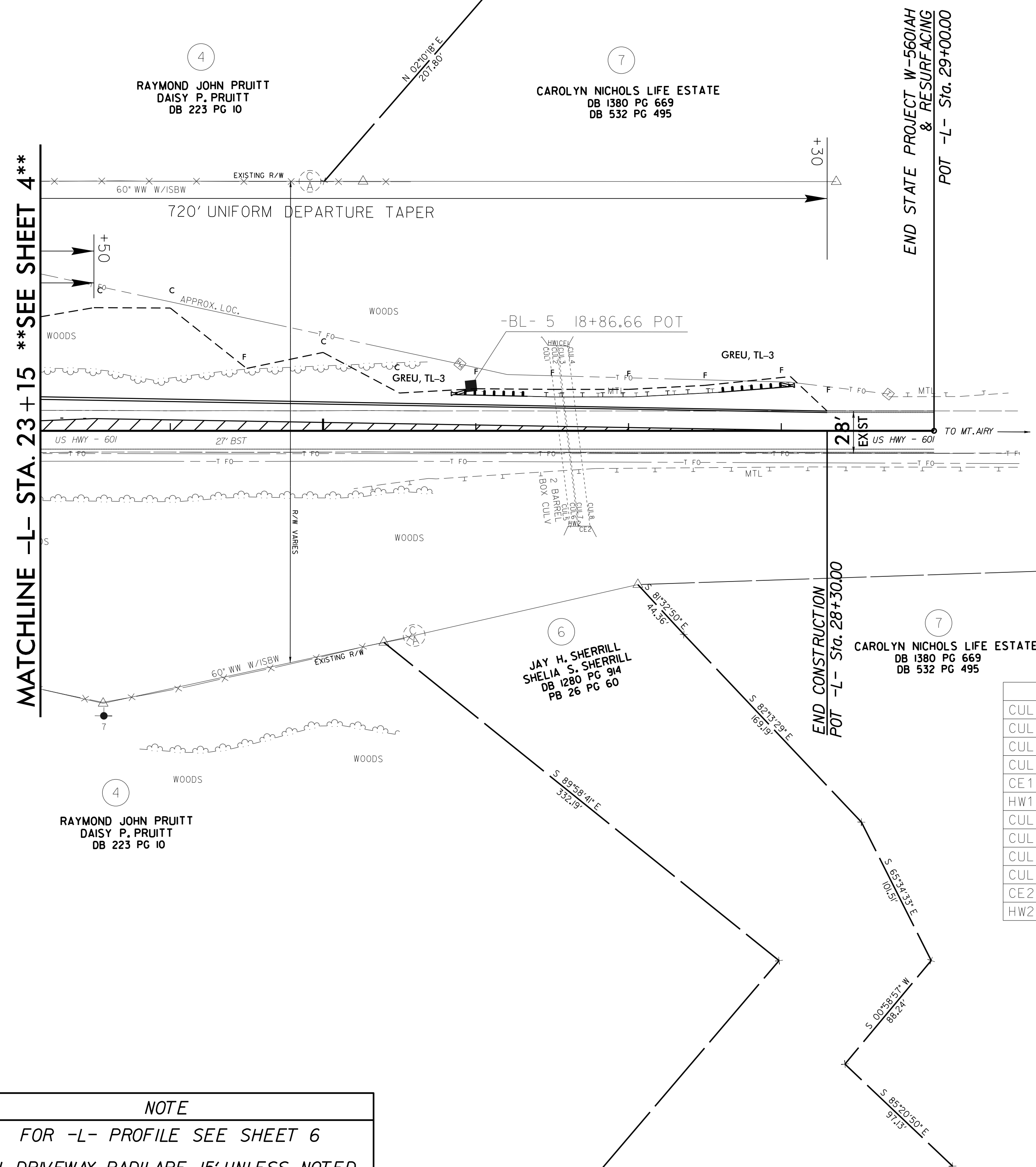
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DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PROJ. REFERENCE NO.	SHEET NO.
W-5601AH	3-B

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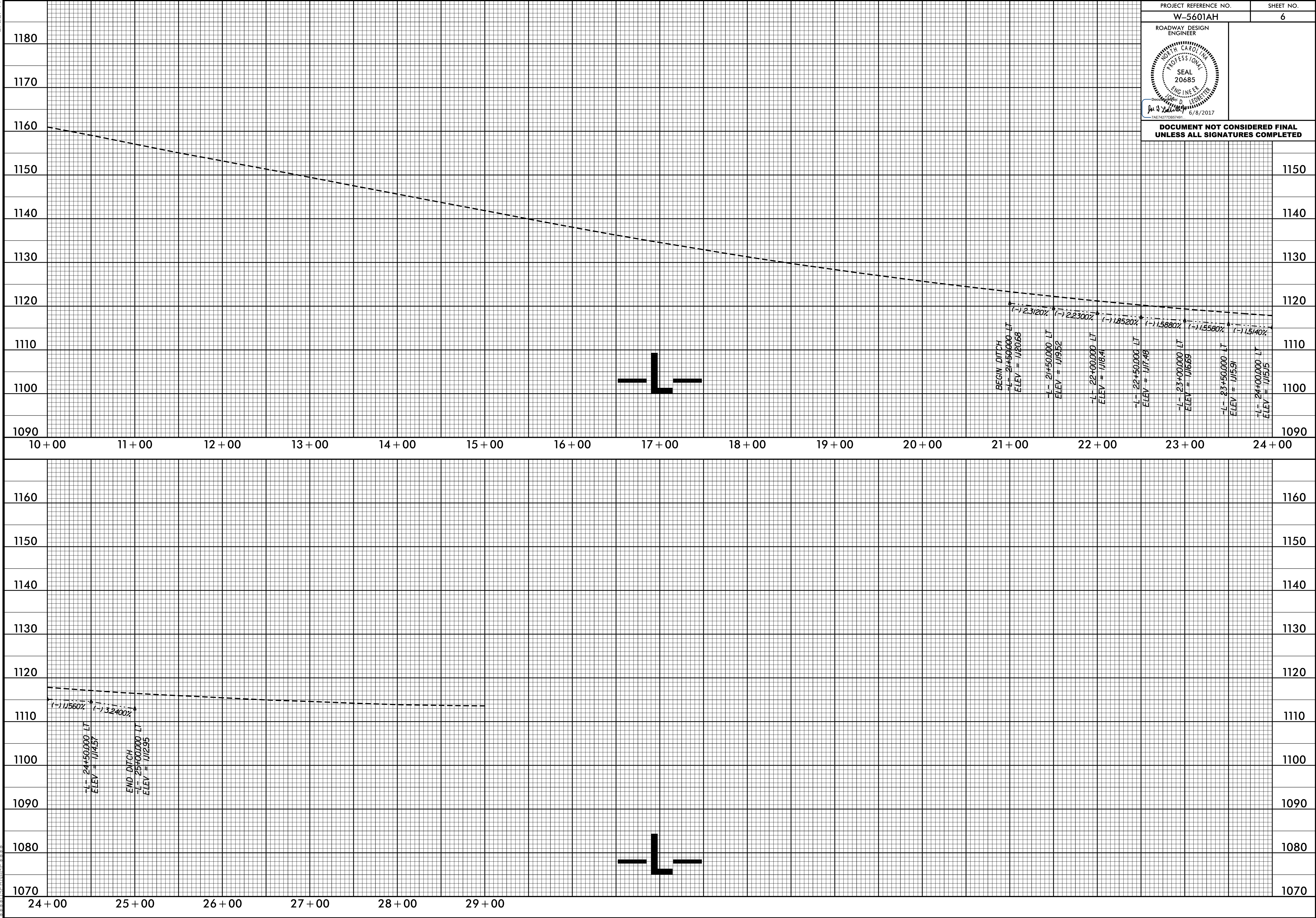
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CUL2	986156.97	1513289.70	1087.75
CUL3	986157.40	1513290.41	1087.75
CUL4	986161.12	1513295.62	1087.70
CE1	986160.53	1513294.56	1094.80
HW1	986153.18	1513285.31	1096.45
CUL5	986069.52	1513371.86	1084.54
CUL6	986072.75	1513375.54	1084.11
CUL7	986073.42	1513375.70	1084.45
CUL8	986078.10	1513381.30	1085.17
CE2	986075.47	1513378.17	1091.82
HW2	986069.07	1513369.91	1093.47

NOTE
FOR -L- PROFILE SEE SHEET 6
ALL DRIVEWAY RADII ARE 15' UNLESS NOTED

-L- STA. 29+00 Ext. 815.00

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PROJECT REFERENCE NO.		SHEET NO.
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ROADWAY DESIGN ENGINEER		
		
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8/17/99

TIP PROJECT: W-5601AH

CONTRACT: DK00221

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SURRY COUNTY

LOCATION: INTERSECTION OF NC 601 AND SR 1476 (SUNRISE AVE)

PROJECT REFERENCE NO.	SHEET NO.
W-5601AH	PMP-1
TRAFFIC ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" – PROJECT SERVICES UNIT – N.C. DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.	TITLE
1205.01	PAVEMENT MARKINGS – LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS – TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS – INTERSECTIONS
1205.05	PAVEMENT MARKINGS – TURN LANES
1205.08	PAVEMENT MARKINGS – SYMBOLS AND WORD MESSAGES

PAVEMENT MARKING SCHEDULE

QUANTITY	DESCRIPTION
464 L.F.	THERMOPLASTIC YELLOW (12", 90 MIL)
20 L.F.	THERMOPLASTIC WHITE (24", 120 MIL)
10 EA.	THERMOPLASTIC WHITE ARROW SYMBOL (90 MIL)
4320 L.F.	POLYUREA WHITE (4")
6450 L.F.	POLYUREA YELLOW (4")

GENERAL NOTES

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

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

ROAD NAME	MARKING	MARKER
ALL	THERMOPLASTIC	NONE

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

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

D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

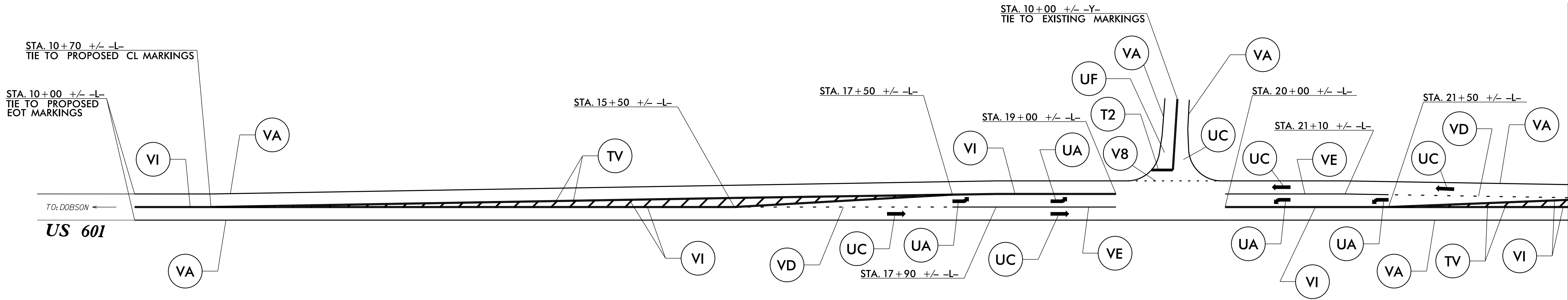
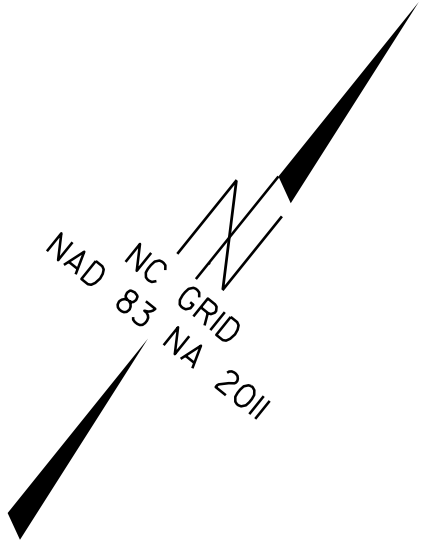
INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET
PMP-2-3	PAVEMENT MARKING DETAIL SHEETS

8/17/99

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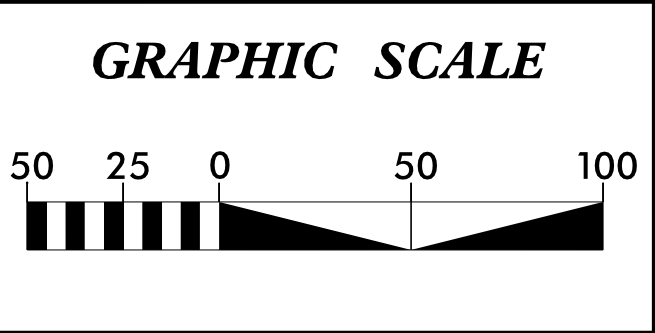
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W-5601AH	PMP-2
APPROVED:	
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MATCHLINE -L- STA. 23+15 **SEE SHEET PMP-3**

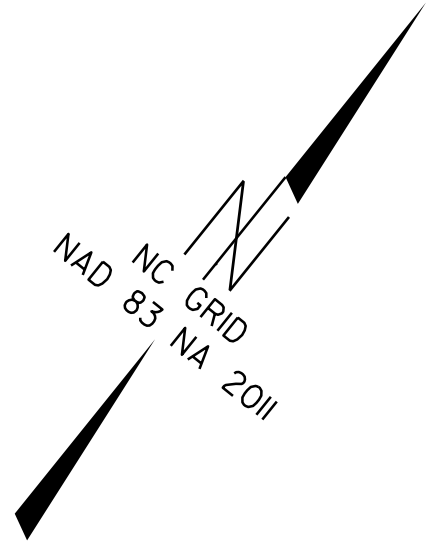
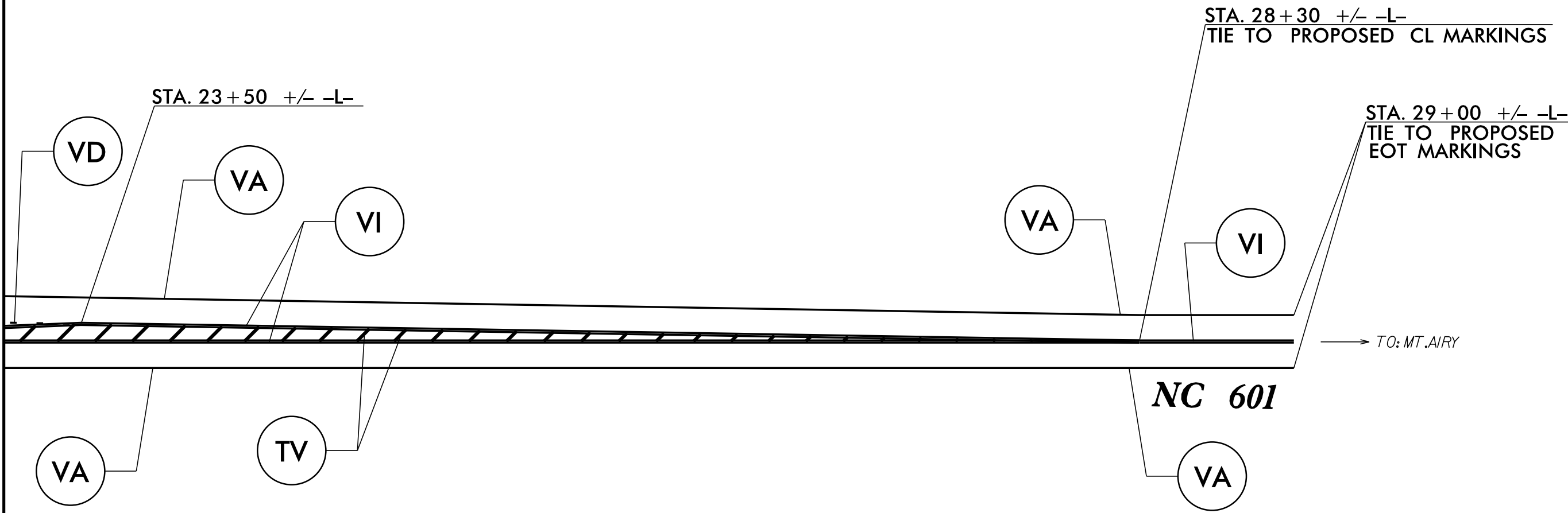
SYMBOL AND PAVEMENT MARKING LEGEND

PAVEMENT MARKING LINES	PAVEMENT MARKING SYMBOLS
T2 - WHITE STOPBAR (24",120MIL) THERMOPLASTIC TV - YELLOW DIAGONAL (12",90MIL) THERMOPLASTIC V8 - 2FT.-6FT./SP WHITE MINISKIP (4") POLYUREA VA - WHITE EDGE LINE (4") POLYUREA VD - 3FT.-9FT./SP WHITE MINISKIP (4") POLYUREA VE - WHITE SOLID LANE LINE (4") POLYUREA VI - YELLOW DOUBLE CENTER (4") POLYUREA	UA - LEFT TURN ARROW (90 MIL) THERMOPLASTIC UF - COMBINATION LEFT AND RIGHT TURN ARROW(90MIL)THERMOPLASTIC UC - STRAIGHT ARROW (90 MIL) THERMOPLASTIC



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MATCHLINE -L- STA. 23 + 15 **SEE SHEET PMP-2**



PROJECT REFERENCE NO.	SHEET NO.
W-560IAH	PMP-3
APPROVED:	
DATE:	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PAVEMENT MARKING LEGEND

PAVEMENT MARKING LINES

- TV - YELLOW DIAGONAL (12",90MIL) THERMOPLASTIC
- VA - WHITE EDGE LINE (4") POLYUREA
- VD - 3FT.-9FT./SP WHITE MINISKIP (4") POLYUREA
- VI - YELLOW DOUBLE CENTER (4") POLYUREA

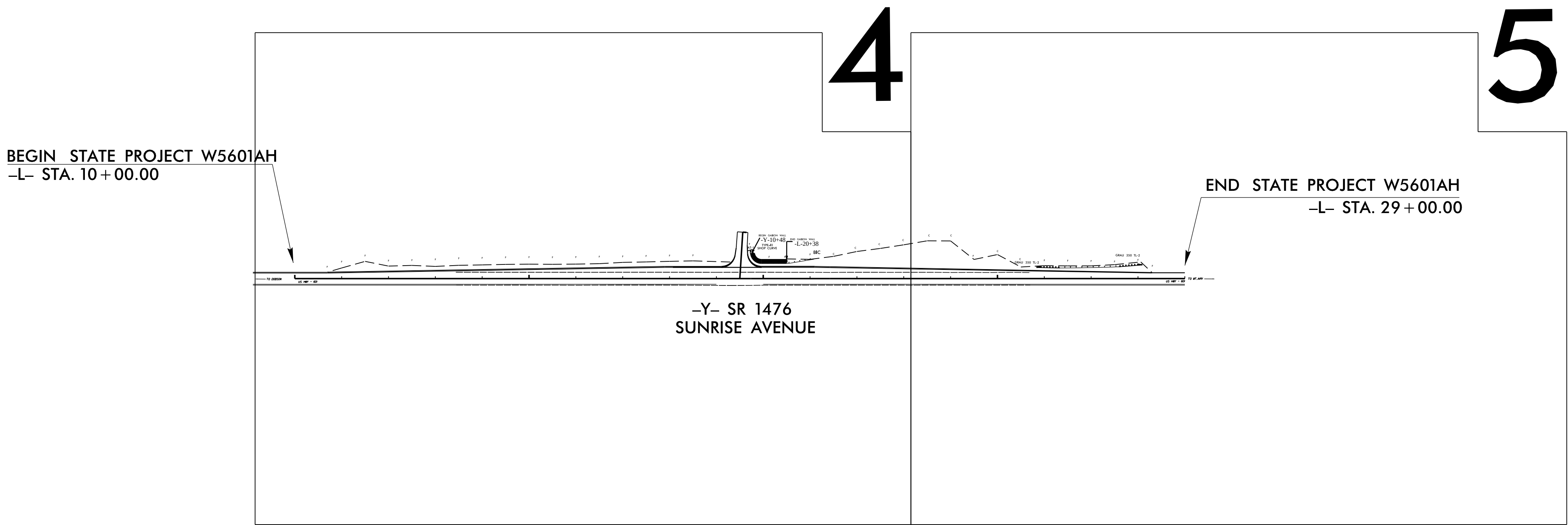
GRAPHIC SCALE



TIP PROJECT: W-5601AH

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
SURRY COUNTY

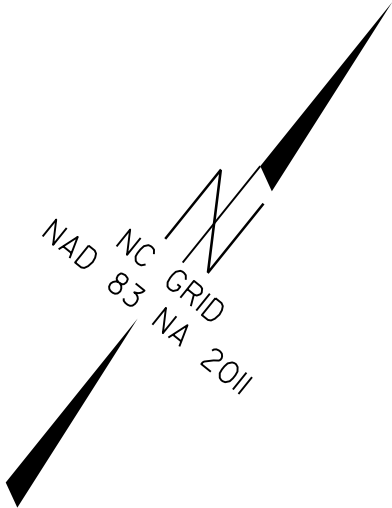
LOCATION: NC 601 AT THE INTERSECTION OF SR 1476 (SUNRISE AVENUE)
AND THE ENTRANCE TO TEMPLE BAPTIST CHURCH
TYPE OF WORK: GRADING, WIDENING, AND PAVING



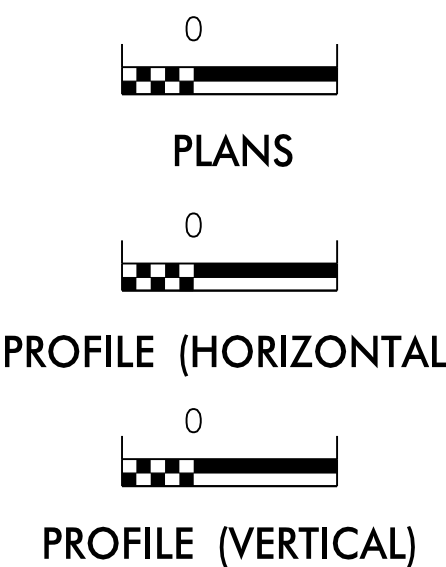
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N.C.	W-5601AH	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES		
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch.....	TSD
1630.05	Temporary Diversion.....	TD
1605.01	Temporary Silt Fence.....	III III III III
1606.01	Special Sediment Control Fence.....	III III III III
1622.01	Temporary Berms and Slope Drains.....	TB SD
1630.02	Silt Basin Type B.....	SB
1633.01	Temporary Rock Silt Check Type-A.....	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM).....	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B.....	TRSCB
	Wattle / Coir Fiber Wattle.....	WCFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM).....	WCFW-PAM
1634.01	Temporary Rock Sediment Dam Type-A.....	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B.....	TRSDA-B
1635.01	Rock Pipe Inlet Sediment Trap Type-A.....	RPIST-A
1635.02	Rock Pipe Inlet Sediment Trap Type-B.....	RPIST-B
1630.04	Stilling Basin.....	SB
1630.06	Special Stilling Basin.....	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A.....	A
1632.02	Type B.....	B
1632.03	Type C.....	C
	Skimmer Basin.....	SB
	Tiered Skimmer Basin.....	TSB
	Infiltration Basin.....	IB

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



GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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.

Prepared in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2012 STANDARD SPECIFICATIONS

Designed by:
Benjamin Bradley 3873
NAME LEVEL III CERTIFICATION NO.

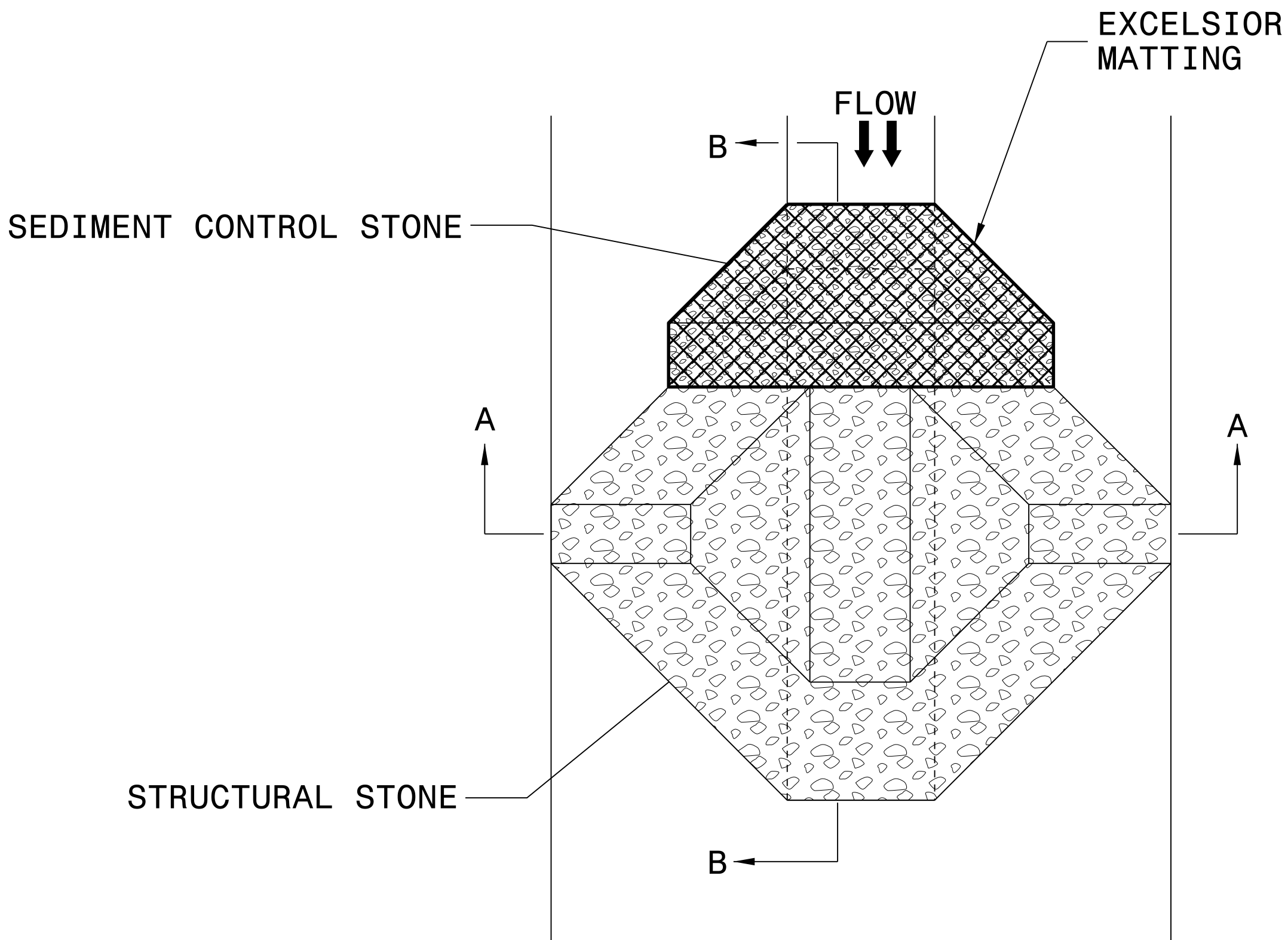
Roadway Standard Drawings

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 revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

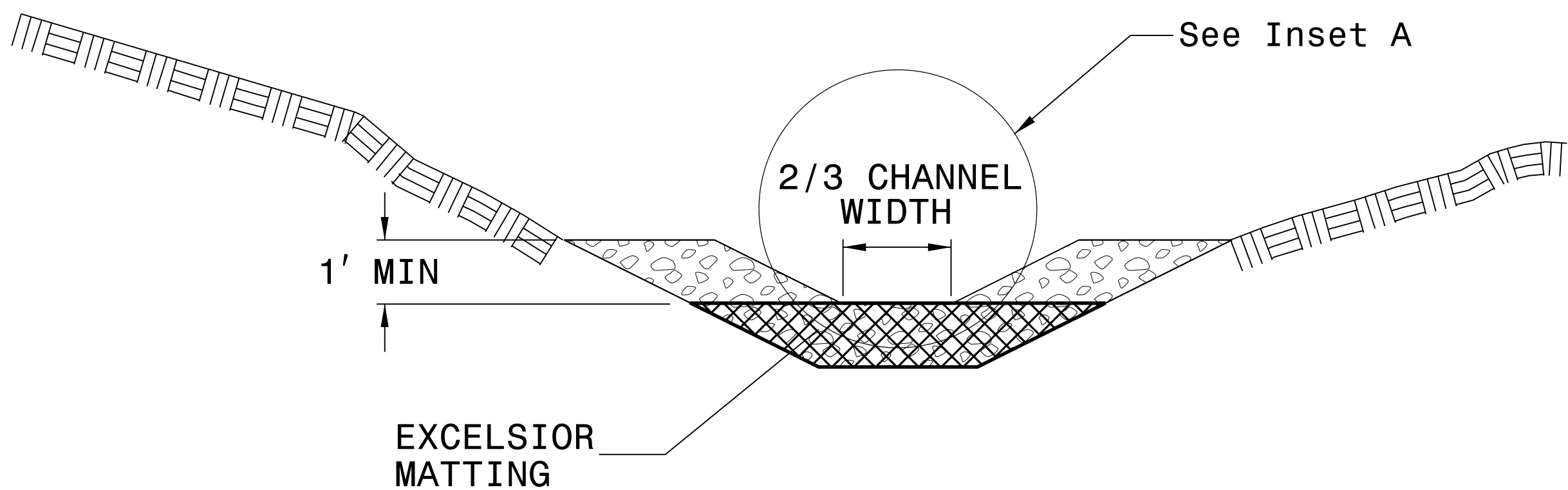
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type 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 Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

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

PROJECT REFERENCE NO.	SHEET NO.
W-5601AH	EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



PLAN



SECTION A-A

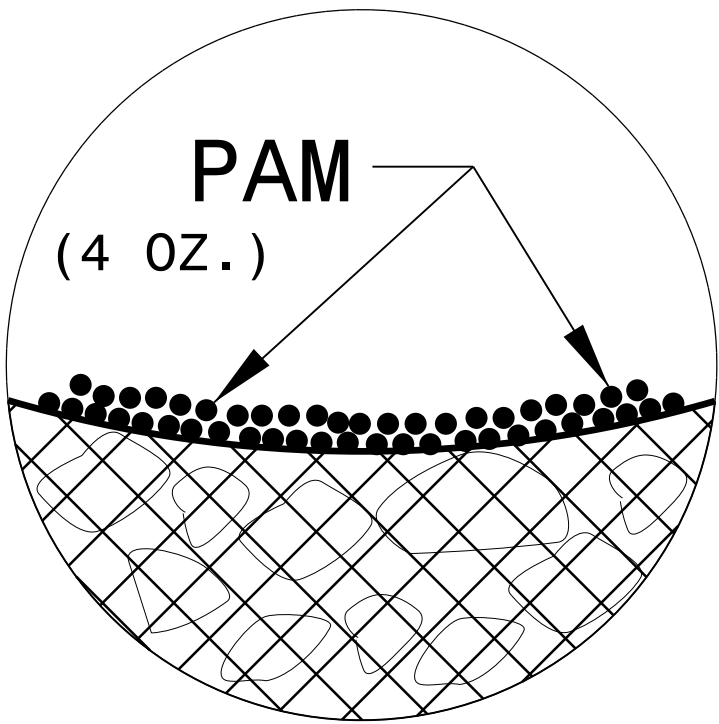
NOTES:

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

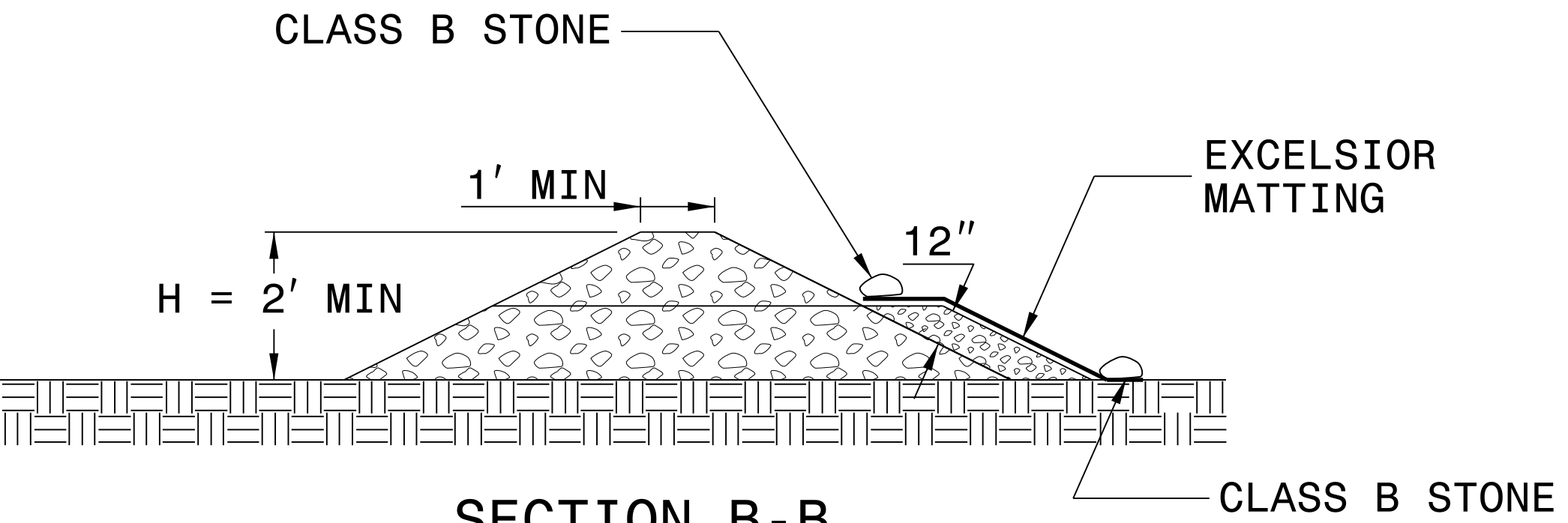
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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 B-B

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
W-5601AH	EC-3

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

[illegible]

MATTING FOR EROSION CONTROL

[illegible]

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
W-560IAH	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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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08 MAY 2017 13:53
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PENNY

-L- STA. 10+00 Ext. -85.00

BEGIN STATE PROJECT W-5601AH
& RESURFACING
POT -L- Sta. 10+00.00

BEGIN CONSTRUCTION
POT -L- Sta. 10+70.00



NOTE:
UTILIZE SPECIAL STILLING BASIN(S) WHERE APPLICABLE.

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

PROJECT REFERENCE NO.		SHEET NO.
W-5601AH		EC-4/CONST.4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

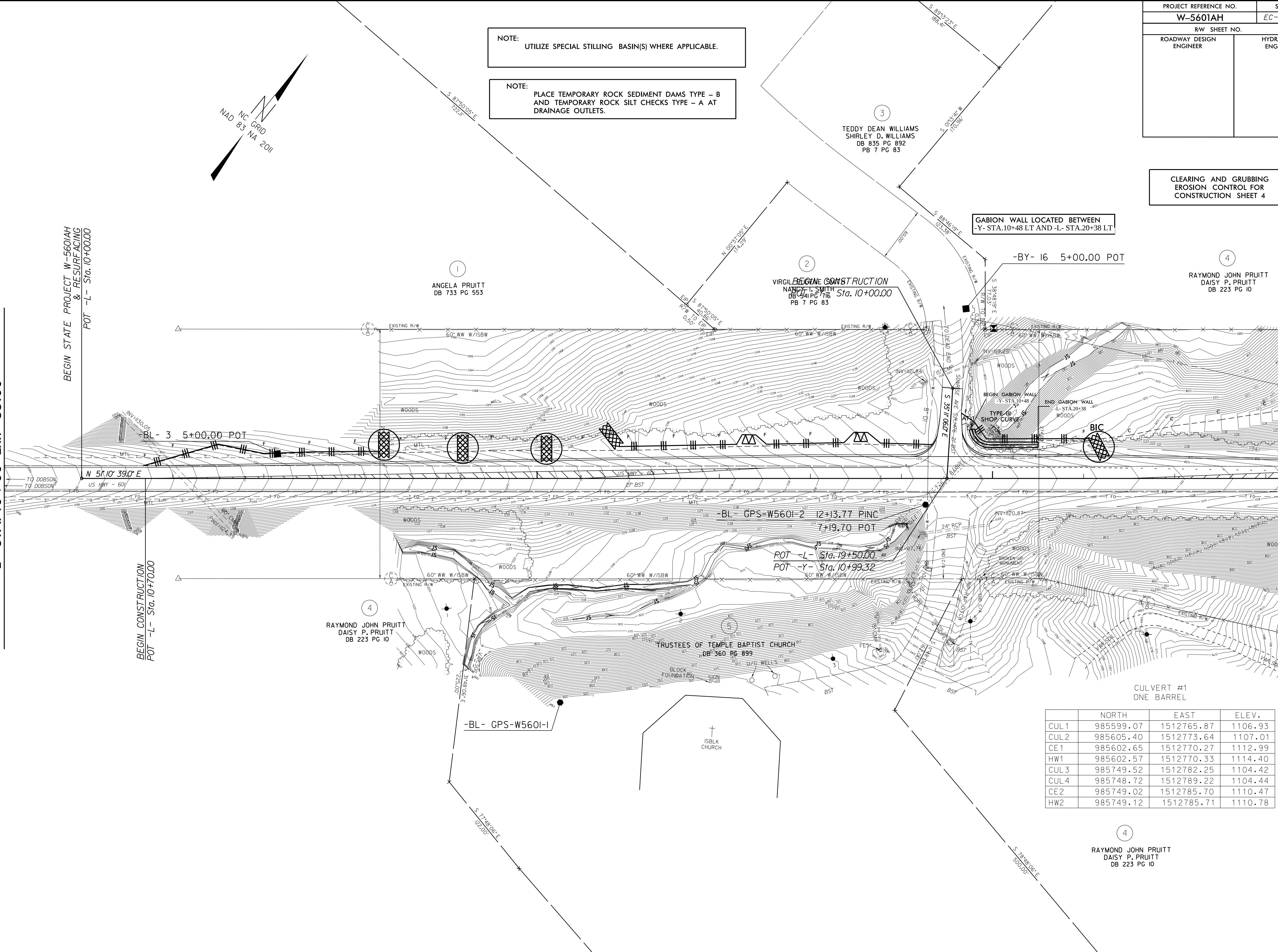
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

GABION WALL LOCATED BETWEEN
-Y- STA.10+48 LT AND -L- STA.20+38 LT

-BY- I6 5+00.00 POT

RAYMOND JOHN PRUITT
DAISY P. PRUITT
DB 223 PG 10

MATCHLINE -L- STA. 23+15 **SEE SHEET 5**



CULVERT #1
ONE BARREL

	NORTH	EAST	ELEV.
CUL1	985599.07	1512765.87	1106.93
CUL2	985605.40	1512773.64	1107.01
CE1	985602.65	1512770.27	1112.99
HW1	985602.57	1512770.33	1114.40
CUL3	985749.52	1512782.25	1104.42
CUL4	985748.72	1512789.22	1104.44
CE2	985749.02	1512785.70	1110.47
HW2	985749.12	1512785.71	1110.78

RAYMOND JOHN PRUITT
DAISY P. PRUITT
DB 223 PG 10



	NORTH	EAST	ELEV.
CUL 1	986153.41	1513285.69	1087.68
CUL2	986156.97	1513289.70	1087.75
CUL3	986157.40	1513290.41	1087.75
CUL4	986161.12	1513295.62	1087.70
CE1	986160.53	1513294.56	1094.80
HW1	986153.18	1513285.31	1096.45
CUL5	986069.52	1513371.86	1084.54
CUL6	986072.75	1513375.54	1084.11
CUL7	986073.42	1513375.70	1084.45
CUL8	986078.10	1513381.30	1085.17
CE2	986075.47	1513378.17	1091.82
HW2	986069.07	1513369.91	1093.47

CULVERT #1
TWO BARRELS

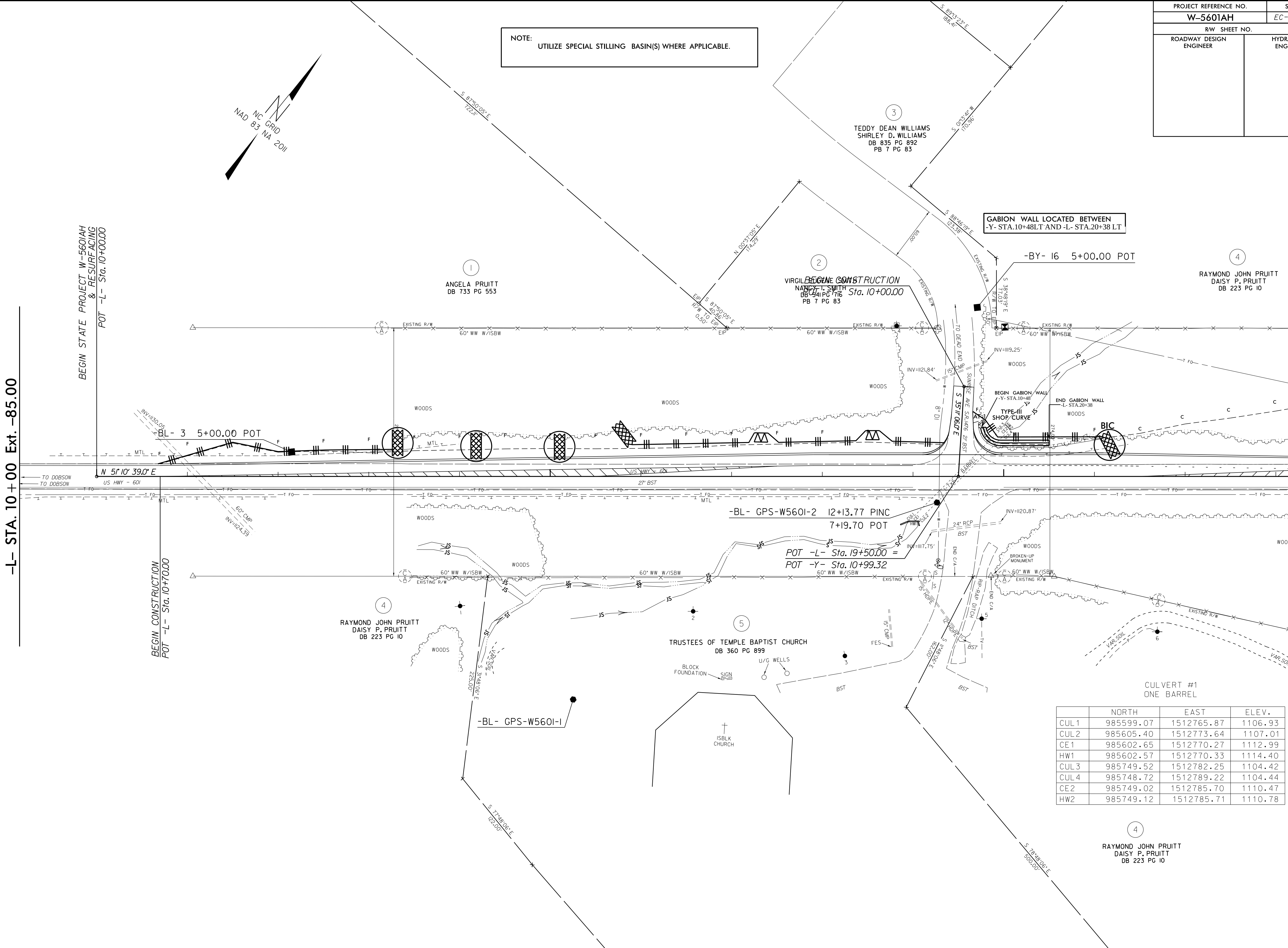
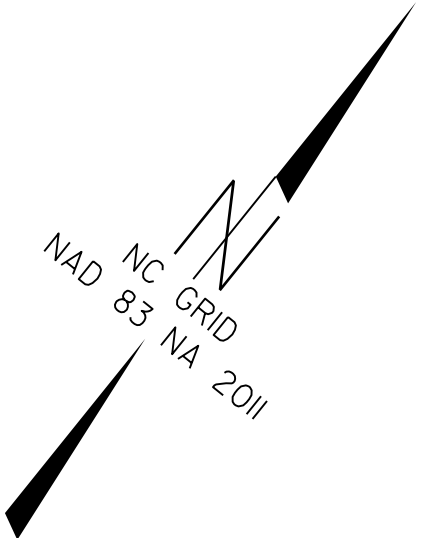
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
W-5601AH	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L- STA. 29+00 Ext. 815.00

PROJECT REFERENCE NO.		SHEET NO.
W-5601AH		EC-6/CONST.4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

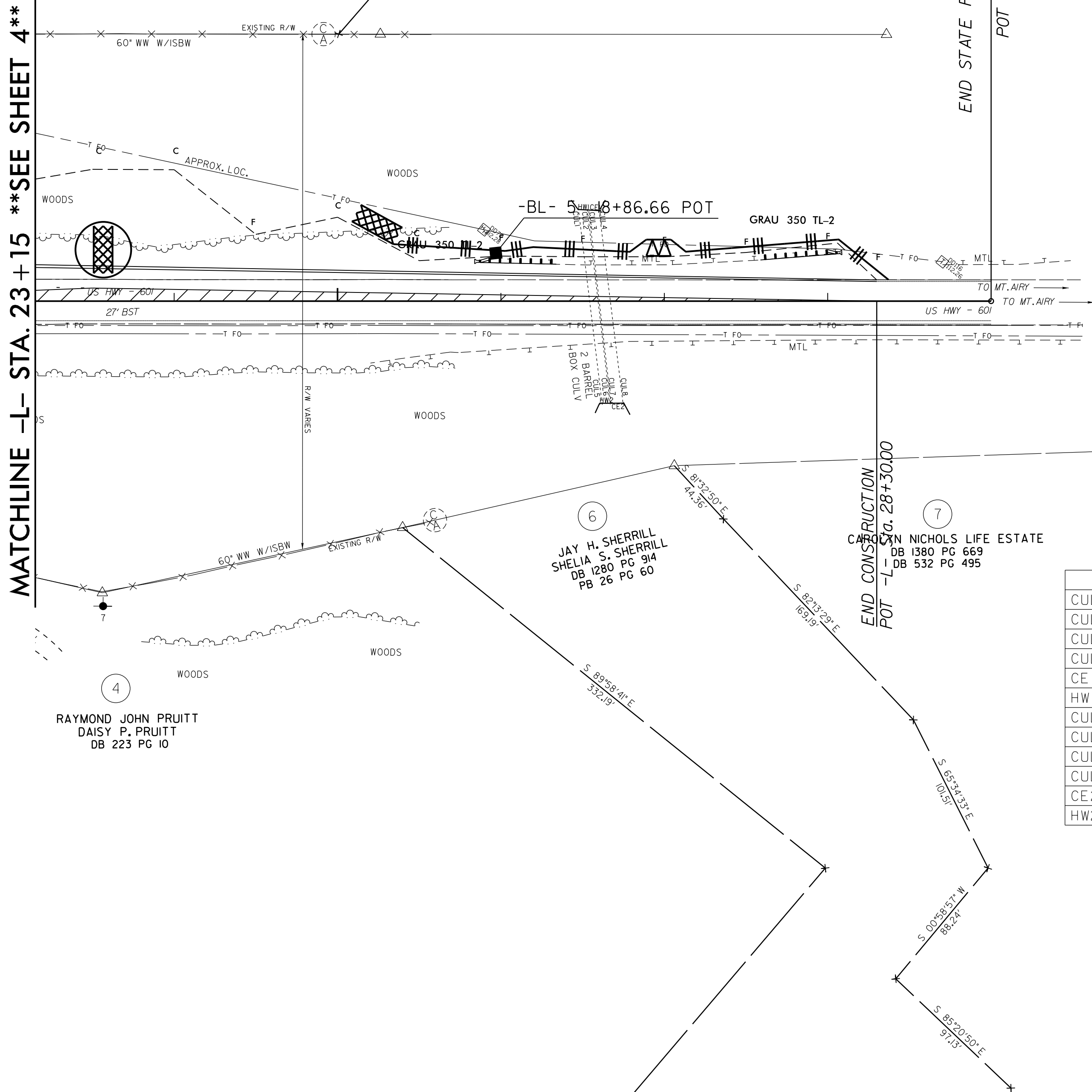
NOTE:
UTILIZE SPECIAL STILLING BASIN(S) WHERE APPLICABLE.



	NORTH	EAST	ELEV.
CUL1	985599.07	1512765.87	1106.93
CUL2	985605.40	1512773.64	1107.01
CE1	985602.65	1512770.27	1112.99
HW1	985602.57	1512770.33	1114.40
CUL3	985749.52	1512782.25	1104.42
CUL4	985748.72	1512789.22	1104.44
CE2	985749.02	1512785.70	1110.47
HW2	985749.12	1512785.71	1110.78

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W5601AH

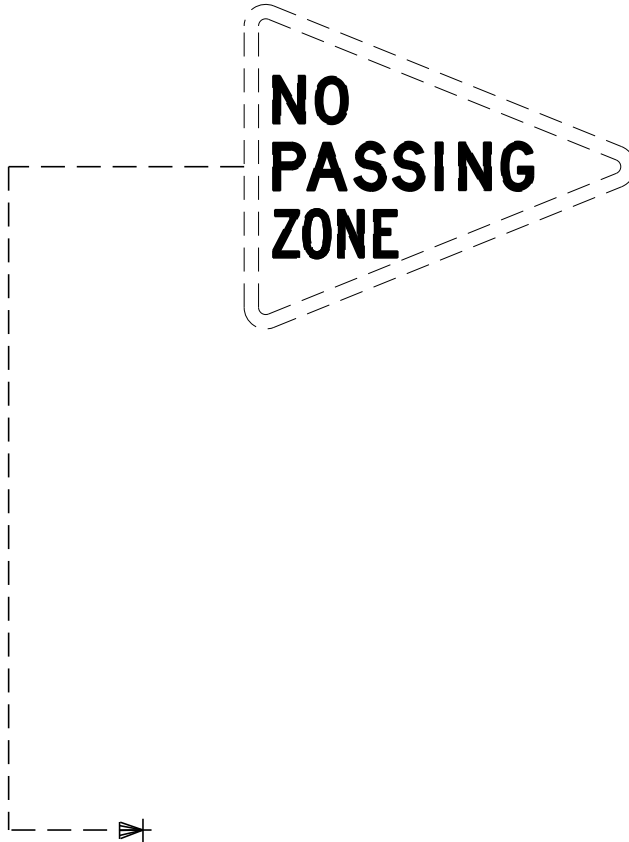
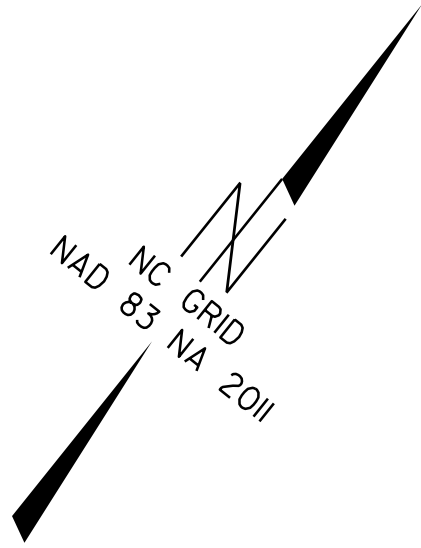
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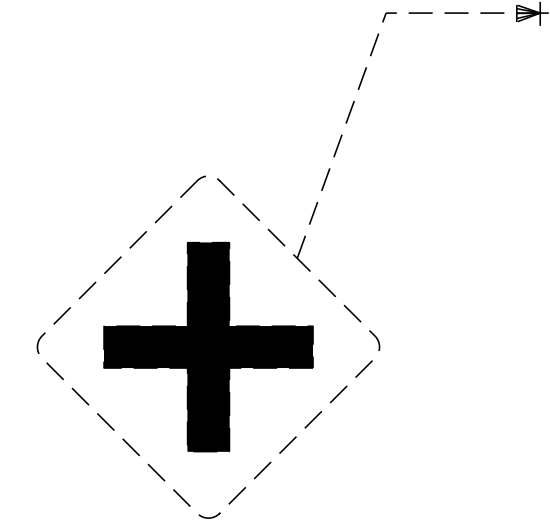
	NORTH	EAST	ELEV.
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CUL 2	986156.97	1513289.70	1087.75
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CUL 4	986161.12	1513295.62	1087.70
CE 1	986160.53	1513294.56	1094.80
HW 1	986153.18	1513285.31	1096.45
CUL 5	986069.52	1513371.86	1084.54
CUL 6	986072.75	1513375.54	1084.11
CUL 7	986073.42	1513375.70	1084.45
CUL 8	986078.10	1513381.30	1085.17
CE 2	986075.47	1513378.17	1091.82
HW 2	986069.07	1513369.91	1093.47

-L- STA. 29+00 Ext. 815.00

TIP NO.	SHEET NO.
W-5601AH	SIGN-2
APPROVED: _____	
DATE: _____	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE NOTE 1



MATCHLINE -L- STA. 23 + 15
SEE SHEET SIGN-3

PROJECT NOTES

- 1 RELOCATE SIGN, TYPE E

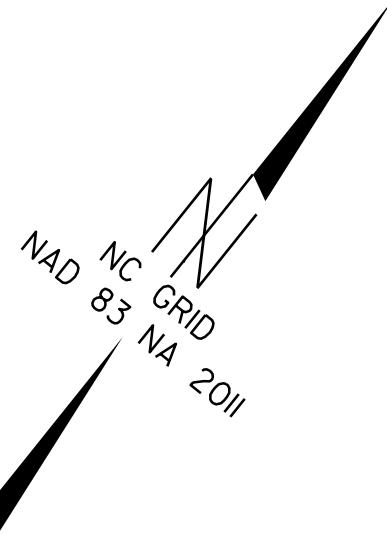
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MATCHLINE -L- STA. 23 + 15
SEE SHEET SIGN-2

GREU, TL-3

GREU, TL-3

US 601 -L-



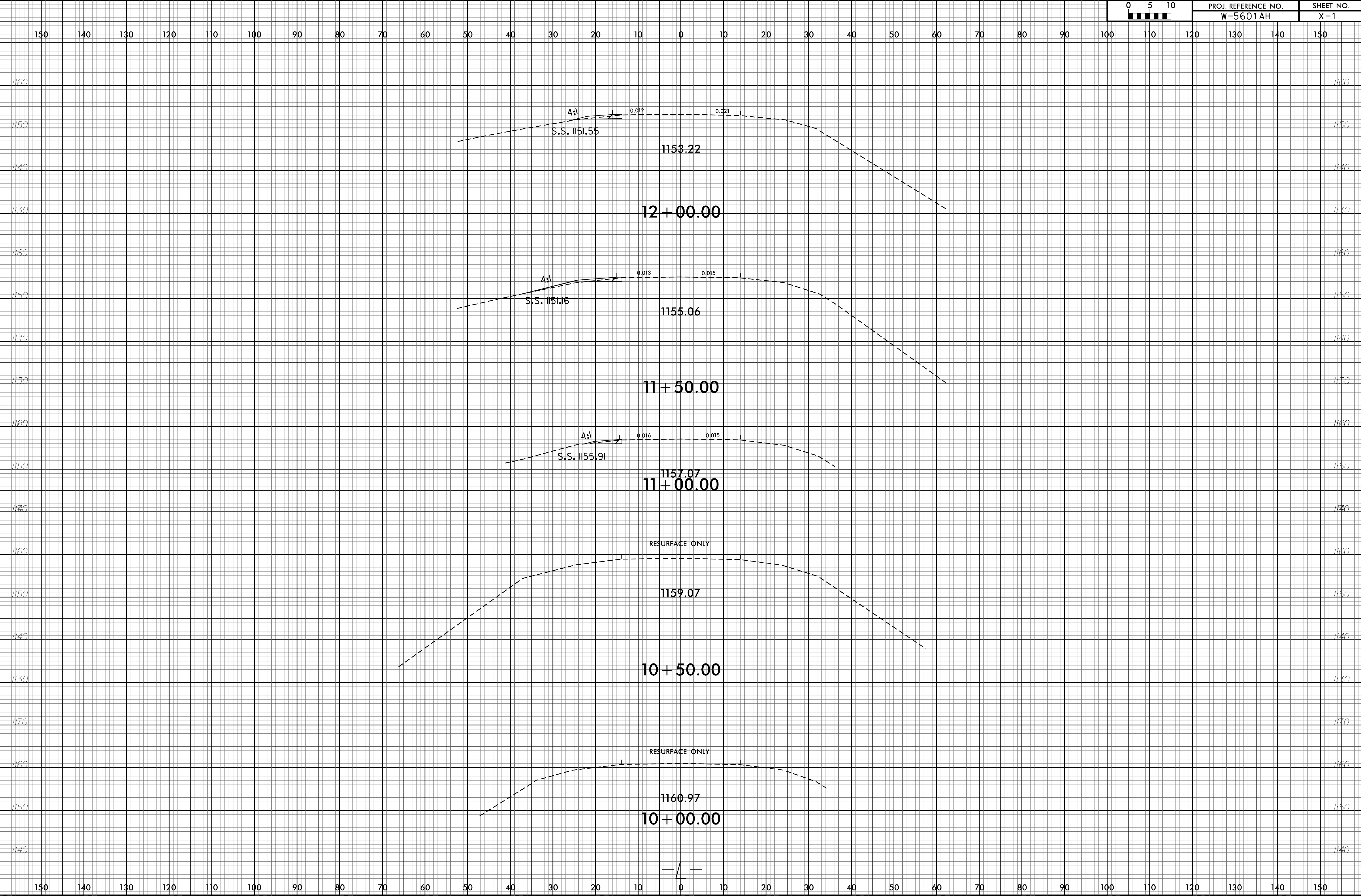
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DATE: _____	
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EXISTING SIGN DETAIL SHEET
(CONTINUED)

W-5601AH
CROSS – SECTION INDEX

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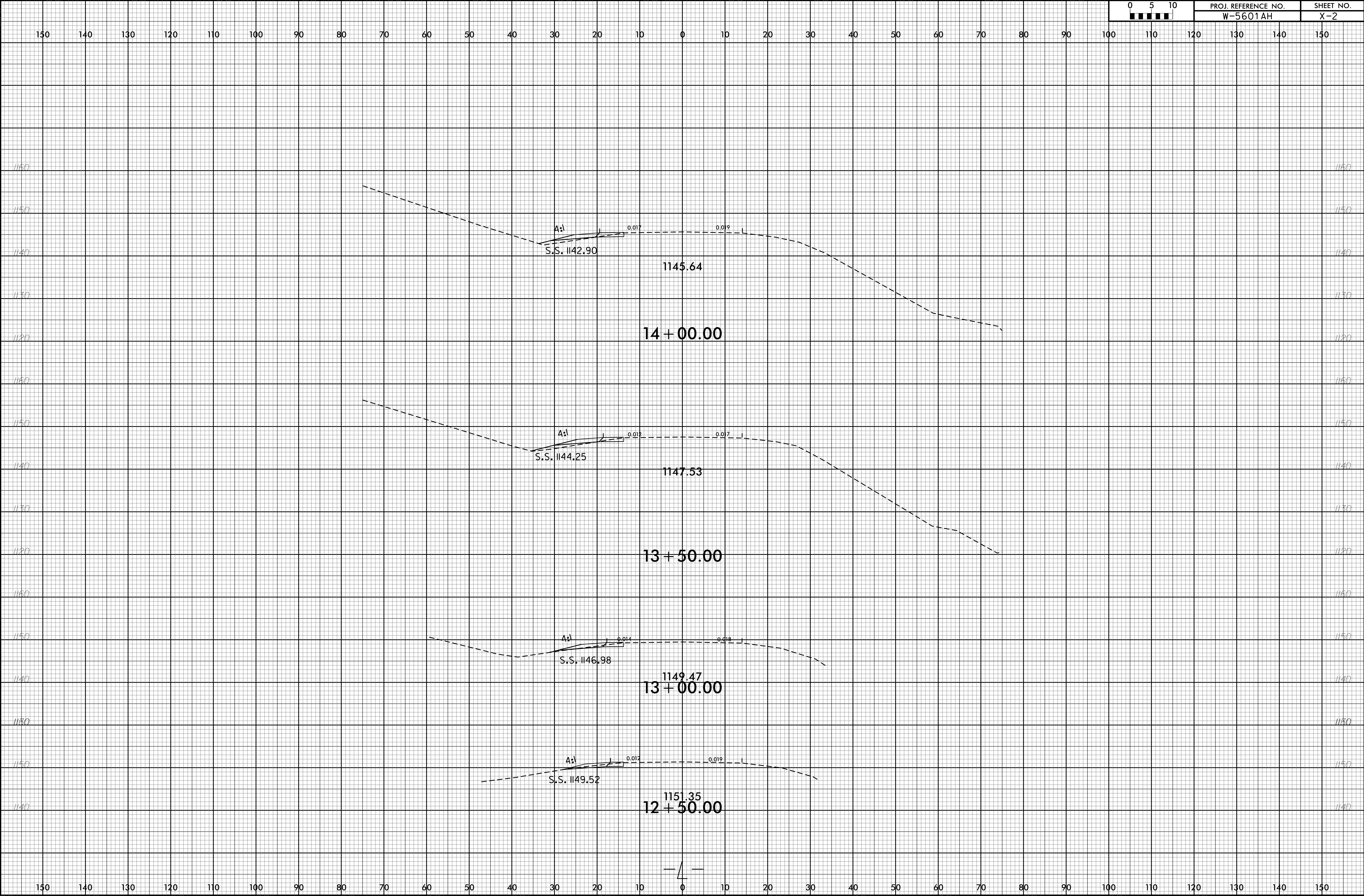
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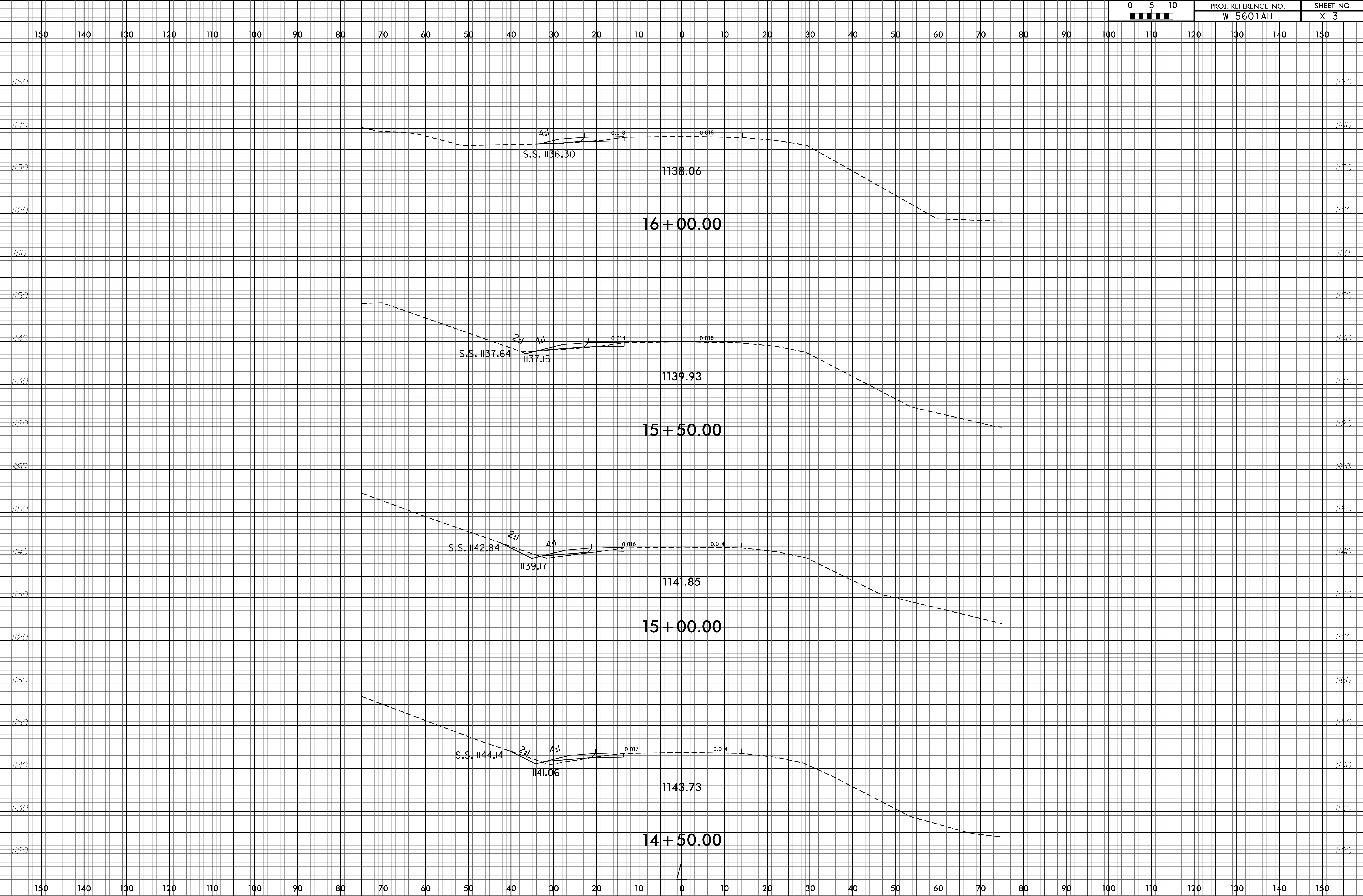
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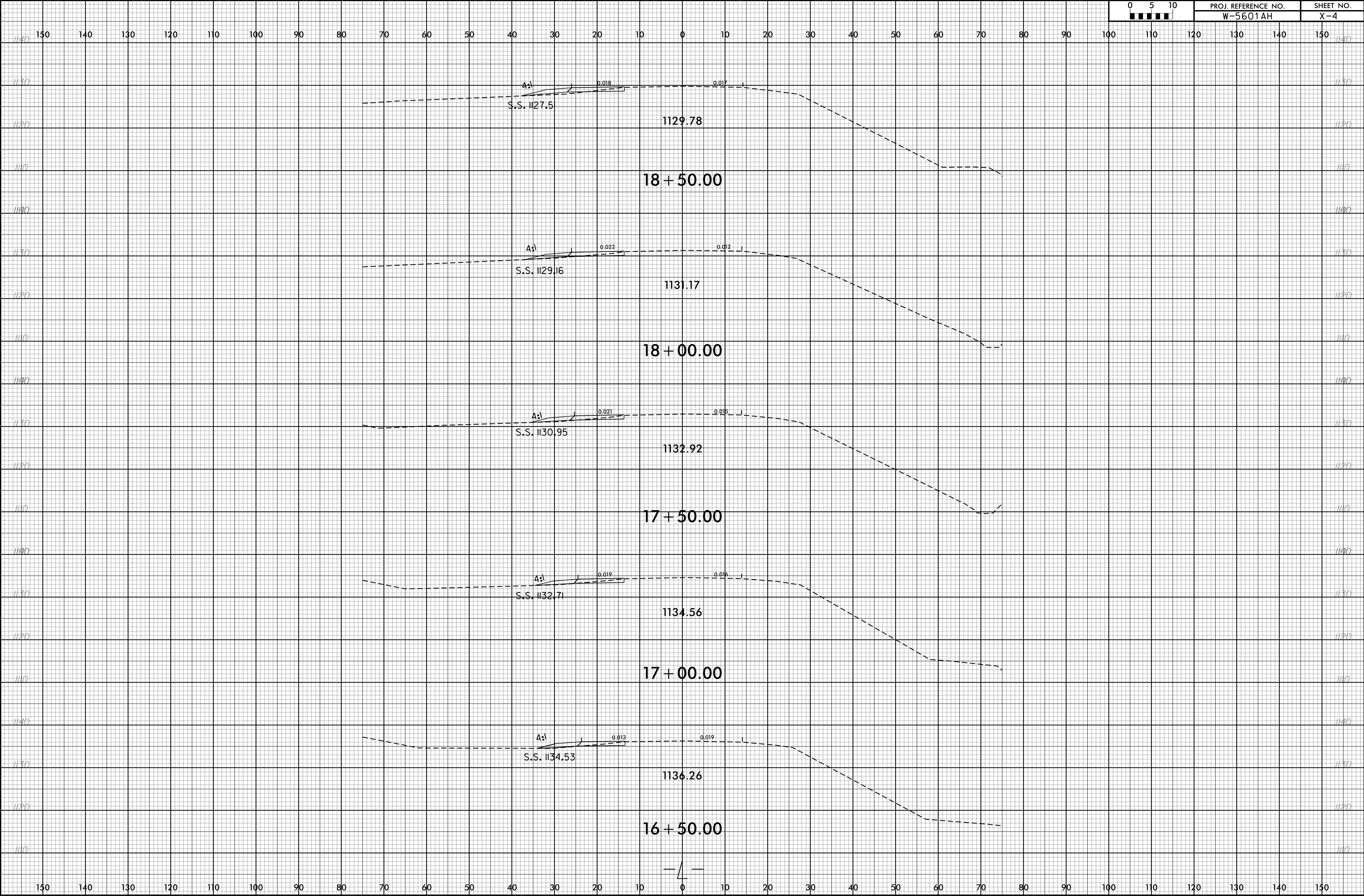
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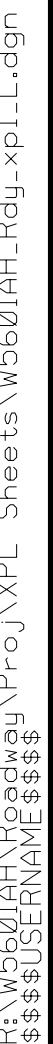


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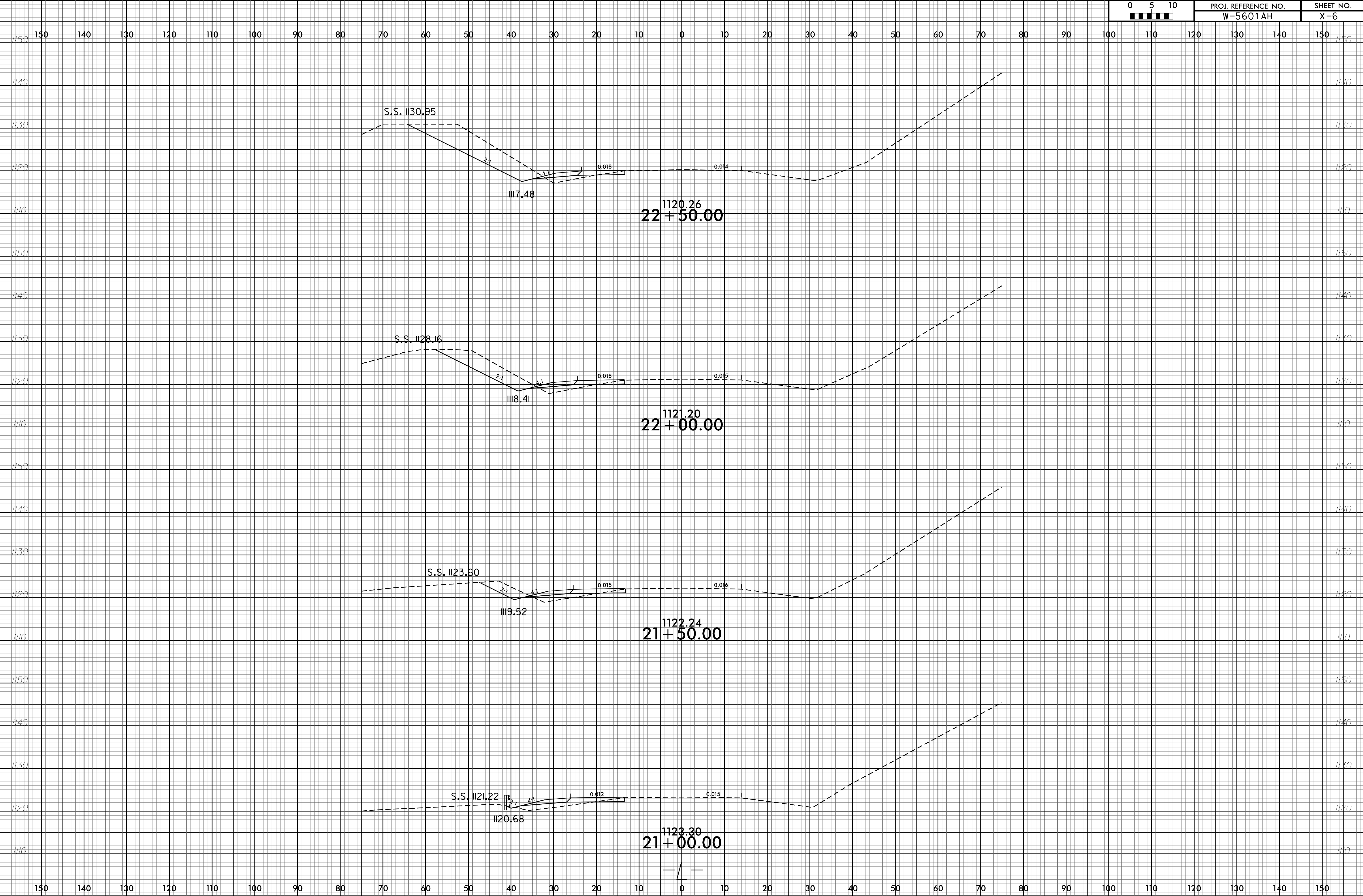


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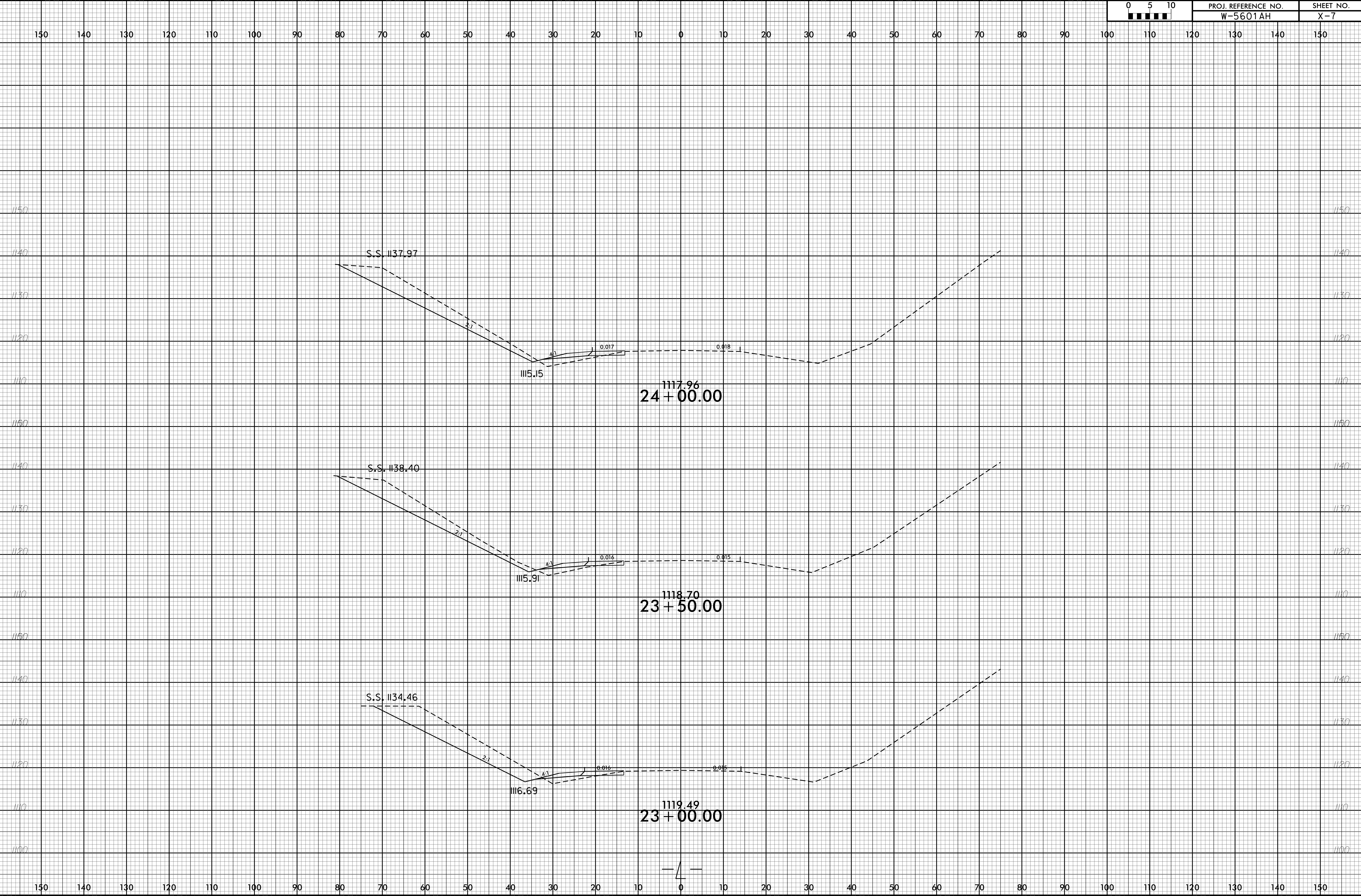


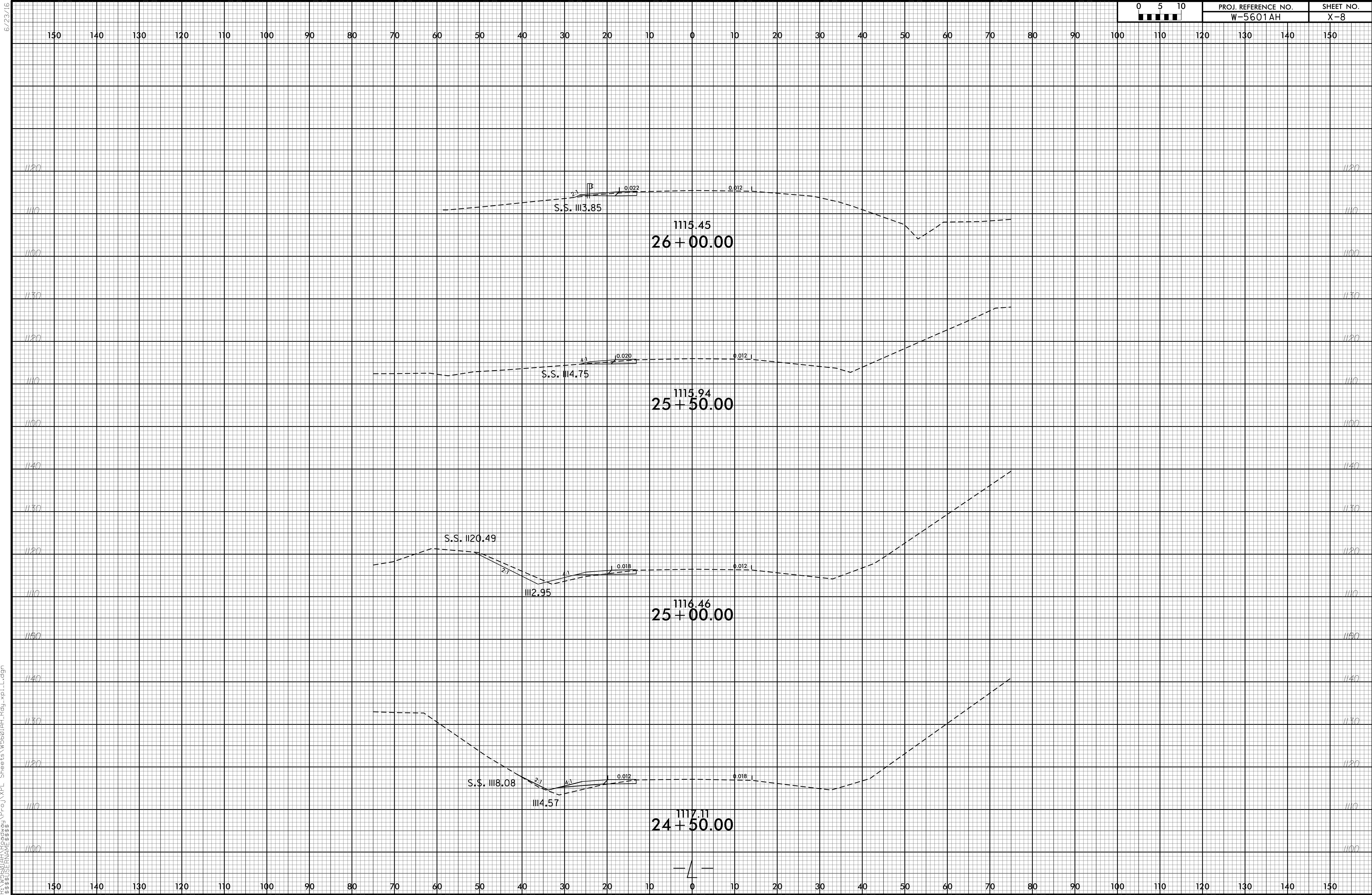


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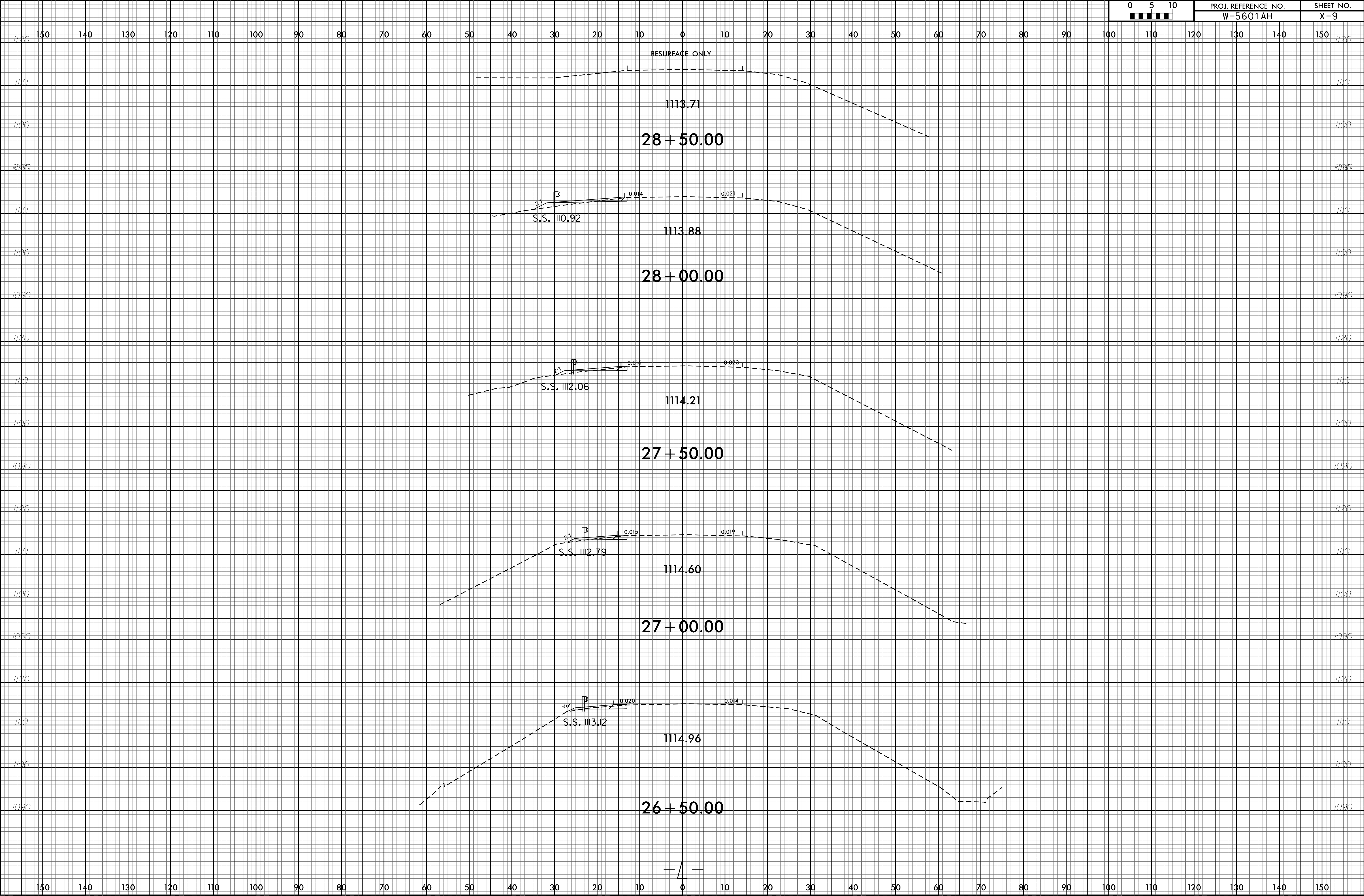


6/23/16





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6/23/16

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