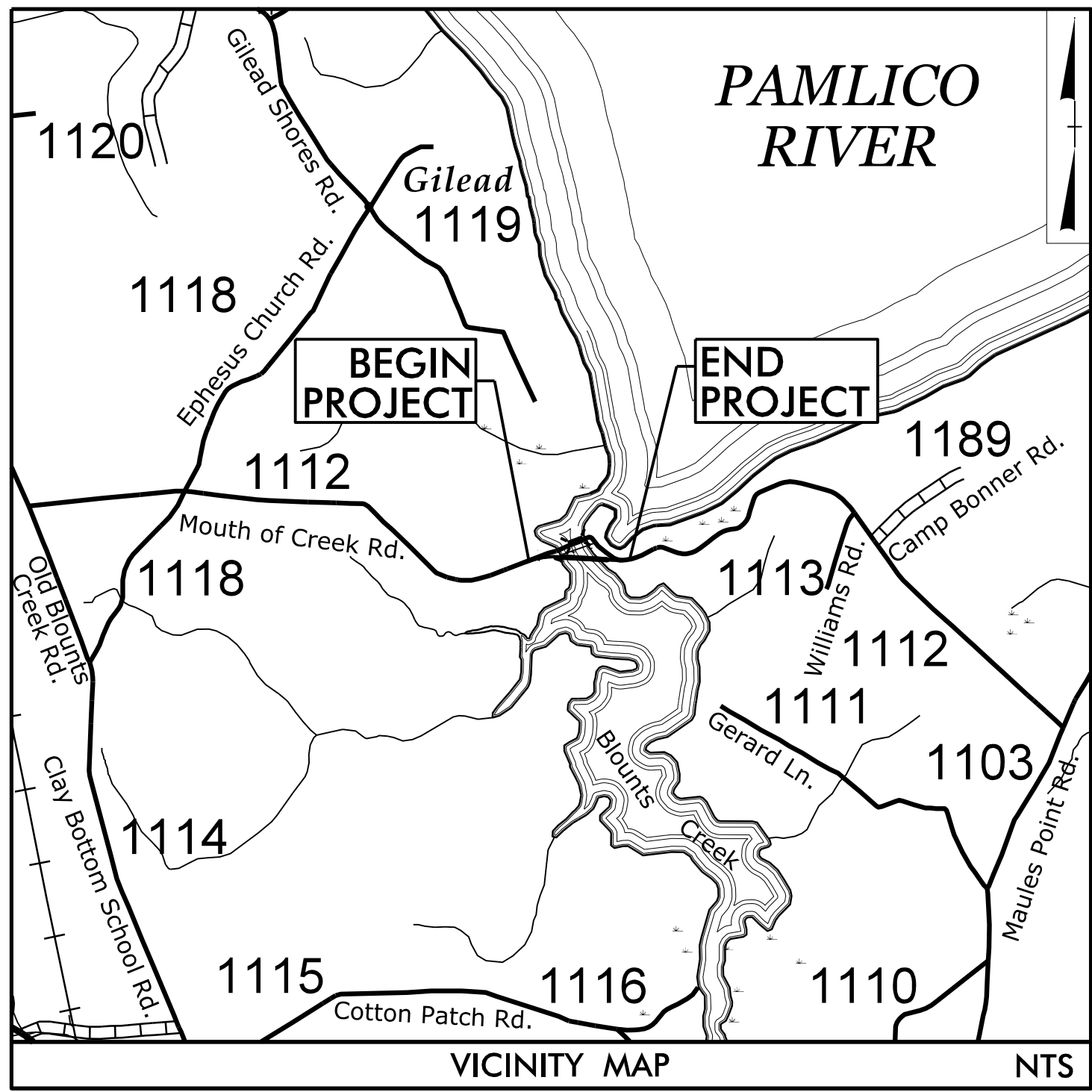


09.08/99

7/7/2025
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TIP PROJECT: B-5614

CONTRACT: C204711



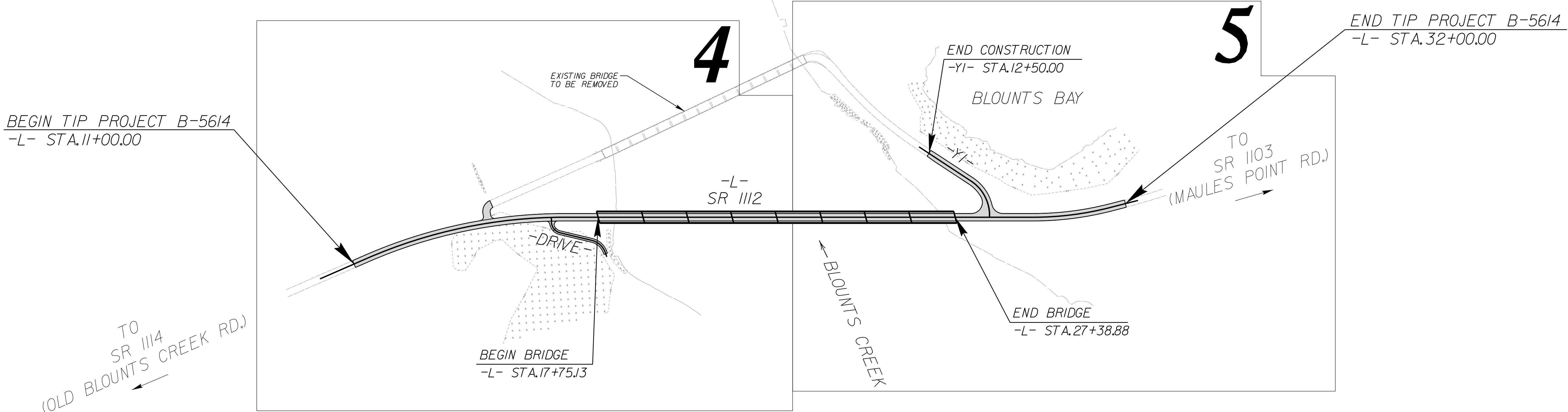
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

LOCATION: BRIDGE #060009 OVER BLOUNTS CREEK
ON SR 1112 (MOUTH OF THE CREEK ROAD)

TYPE OF WORK: DRAINAGE, GRADING, PAVING, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5614	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45569.1.2	N/A	PE	
45569.2.1	1112019	RIGHT-OF-WAY	
45569.2.2	1112019	UTILITIES	
45569.3.1	1112019	CONSTRUCTION	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

DESIGN DATA

2024 ADT = <1000
2044 ADT = <1000
V = 60 MPH

FUNC. CLASS. = LOCAL
SUBREGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5614 = 0.215 mi.
LENGTH STRUCTURES TIP PROJECT B-5614 = 0.183 mi.
TOTAL LENGTH TIP PROJECT B-5614 = 0.398 mi.

Prepared in the Offices of:



223 S. WEST ST., STE. 1100
RALEIGH, NC 27603
T 919.380.8730

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 15, 2021

LETTING DATE:
OCTOBER 21, 2025



VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

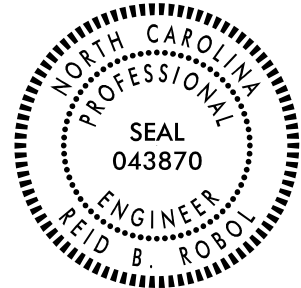
AMJAD IBRAHIM, PE
PROJECT ENGINEER

DAVID RUGGLES, PE
PROJECT DESIGN ENGINEER

DAVID STUTTS, PE
NCDOT CONTACT

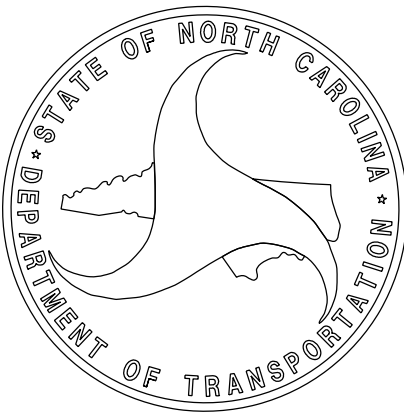
HYDRAULICS ENGINEER

Signed by: 7/14/2025
Rid B. Robol P.E.
SIGNATURE:



ROADWAY DESIGN ENGINEER

Signed by: 7/8/2025
Amjad Ibrahim P.E.
SIGNATURE:



PROJECT REFERENCE NO.
B-5614

SHEET NO.
1A

ROADWAY DESIGN ENGINEER



SEAL 20204

Signed by: *Ahmad Ibrahim* 6/18/2025



STEWART

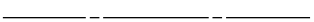
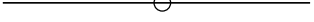
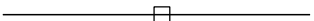
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

INDEX OF SHEETS		2024 ROADWAY ENGLISH STANDARD DRAWINGS	EFF. 01-16-2024 REV.	GENERAL NOTES:	2024 SPECIFICATIONS EFFECTIVE: 01-16-2024 REVISED:
SHEET NUMBER	SHEET	The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:			
1	TITLE SHEET				GRADE LINE: GRADING AND SURFACING:
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS	STD.NO. TITLE	THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.		
1B	CONVENTIONAL SYMBOLS	DIVISION 2 - EARTHWORK	CLEARING:		
2A-1 THRU 2A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS	200.03 Method of Clearing - Method III 225.02 Guide for Grading Subgrade - Secondary and Local 225.04 Method of Obtaining Superelevation - Two Lane Pavement 225.06 Method of Grading Sight Distance at Intersections	CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.		
3B-1	ROADWAY SUMMARIES	DIVISION 3 - PIPE CULVERTS	SUPERELEVATION:		
3D-1	DRAINAGE SUMMARIES	300.01 Method of Pipe Installation 310.10 Driveway Pipe Construction	ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.		
3G-1	GEOTECHNICAL SUMMARIES	DIVISION 4 - MAJOR STRUCTURES	SHOULDER CONSTRUCTION:		
3P-1	PARCEL INDEX SHEET	423.01 Bridge Approach Fills - Type 1 Approach Fill for Bridge Abutment	ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01		
4 THRU 5	PLAN SHEET	DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	SIDE ROADS:		
5 THRU 8	PROFILE SHEET	560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I	THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.		
RW-1 THRU RW-5	RIGHT-OF-WAY SHEETS	DIVISION 6 - ASPHALT BASES AND PAVEMENTS	SUBSURFACE DRAINS:		
TMP-1 THRU TMP-9	TRAFFIC MANAGEMENT PLANS	654.01 Pavement Repairs	SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.		
PMP-1 THRU PMP-3	PAVEMENT MARKING PLANS	DIVISION 8 - INCIDENTALS	STREET TURNOUT:		
EC-1 THRU EC-7	EROSION CONTROL PLANS	815.02 Subsurface Drain 840.00 Concrete Base Pad for Drainage Structures 840.25 Anchorage for Frames - Brick or Concrete or Precast 840.36 Traffic Bearing Grated Drop Inlet - for Steel (840.37) Double Frame and Grates 840.37 Steel Grate and Frame 840.46 Traffic Bearing Precast Drainage Structure 846.01 Concrete Curb, Gutter and Curb & Gutter 846.04 Drop Inlet Installation in Shoulder Berm Gutter 862.01 Guardrail Placement 862.02 Guardrail Installation 862.03 Structure Anchor Units 876.02 Guide for Rip Rap at Pipe Outlets	STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.		
RF-1	REFORESTATION PLANS		GUARDRAIL:		
SIGN-1 THRU SIGN-5	SIGNING PLANS		THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.		
UC-1 THRU UC-6	UTILITIES CONSTRUCTION PLANS		TEMPORARY SHORING:		
UO-1 THRU UO-3	UTILITIES BY OTHERS PLANS		SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.		
X-1	CROSS SECTION INDEX SHEET		END BENTS:		
X-1A	CROSS-SECTION SUMMARY SHEET		THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.		
X-2 THRU X-16	CROSS-SECTIONS		UTILITIES:		
S-1 THRU S-50	STRUCTURE PLANS		UTILITY OWNERS ON THIS PROJECT ARE Beaufort County - Water Brightspeed - Communications Tideland Electric Membership Corporation - Power ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.		
			RIGHT-OF-WAY MARKERS: ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.		

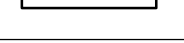
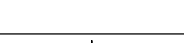
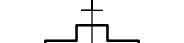
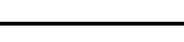
CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

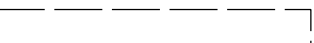
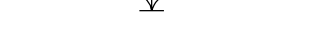
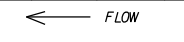
BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	
Computed Property Corner	
Existing Concrete Monument (ECM)	
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	

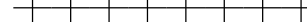
BUILDINGS AND OTHER CULTURE:

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

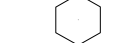
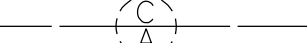
HYDROLOGY:

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	

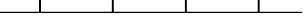
RAILROADS:

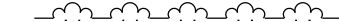
Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

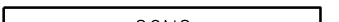
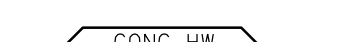
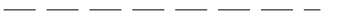
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent Easement Monument (Rebar and Cap)	
Existing C/A Monument	
Proposed C/A Monument (Rebar and Cap)	
Proposed C/A Monument (Concrete)	
Existing Right of Way Line	
Proposed Right of Way Line	
Existing Control of Access Line	
Proposed Control of Access Line	
Proposed ROW and CA Line	
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	

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	

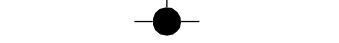
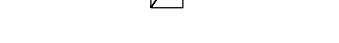
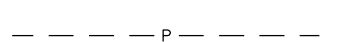
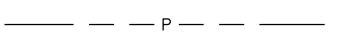
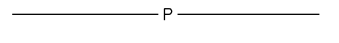
Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

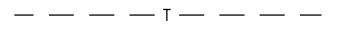
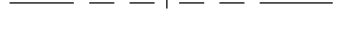
MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

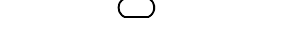
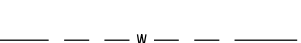
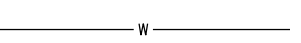
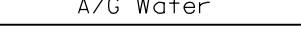
* SUE – Subsurface Utility Engineering
LOS – Level of Service – A,B,C or D (Accuracy)

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 Test Hole (SUE – LOS A)*	
U/G Power Line (SUE – LOS B)*	
U/G Power Line (SUE – LOS C)*	
U/G Power Line (SUE – LOS D)*	

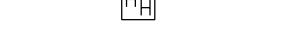
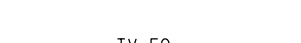
TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Test Hole (SUE – LOS A)*	
U/G Telephone Cable (SUE – LOS B)*	
U/G Telephone Cable (SUE – LOS C)*	
U/G Telephone Cable (SUE – LOS D)*	
U/G Telephone Conduit (SUE – LOS B)*	
U/G Telephone Conduit (SUE – LOS C)*	
U/G Telephone Conduit (SUE – LOS D)*	
U/G Fiber Optics Cable (SUE – LOS B)*	
U/G Fiber Optics Cable (SUE – LOS C)*	
U/G Fiber Optics Cable (SUE – LOS D)*	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line Test Hole (SUE – LOS A)*	
U/G Water Line (SUE – LOS B)*	
U/G Water Line (SUE – LOS C)*	
U/G Water Line (SUE – LOS D)*	
Above Ground Water Line	

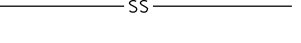
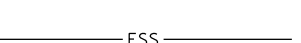
TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Test Hole (SUE – LOS A)*	
U/G TV Cable (SUE – LOS B)*	
U/G TV Cable (SUE – LOS C)*	
U/G TV Cable (SUE – LOS D)*	
U/G Fiber Optic Cable (SUE – LOS B)*	
U/G Fiber Optic Cable (SUE – LOS C)*	
U/G Fiber Optic Cable (SUE – LOS D)*	

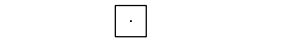
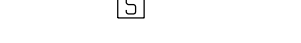
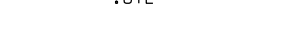
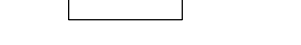
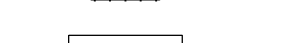
GAS:

Gas Valve	
Gas Meter	
U/G Gas Line Test Hole (SUE – LOS A)*	
U/G Gas Line (SUE – LOS B)*	
U/G Gas Line (SUE – LOS C)*	
U/G Gas Line (SUE – LOS D)*	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Force Main Line Test Hole (SUE – LOS A)*	
SS Force Main Line (SUE – LOS B)*	
SS Force Main Line (SUE – LOS C)*	
SS Force Main Line (SUE – LOS D)*	

MISCELLANEOUS:

Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line (SUE – LOS B)*	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
Abandoned According to Utility Records	
End of Information	

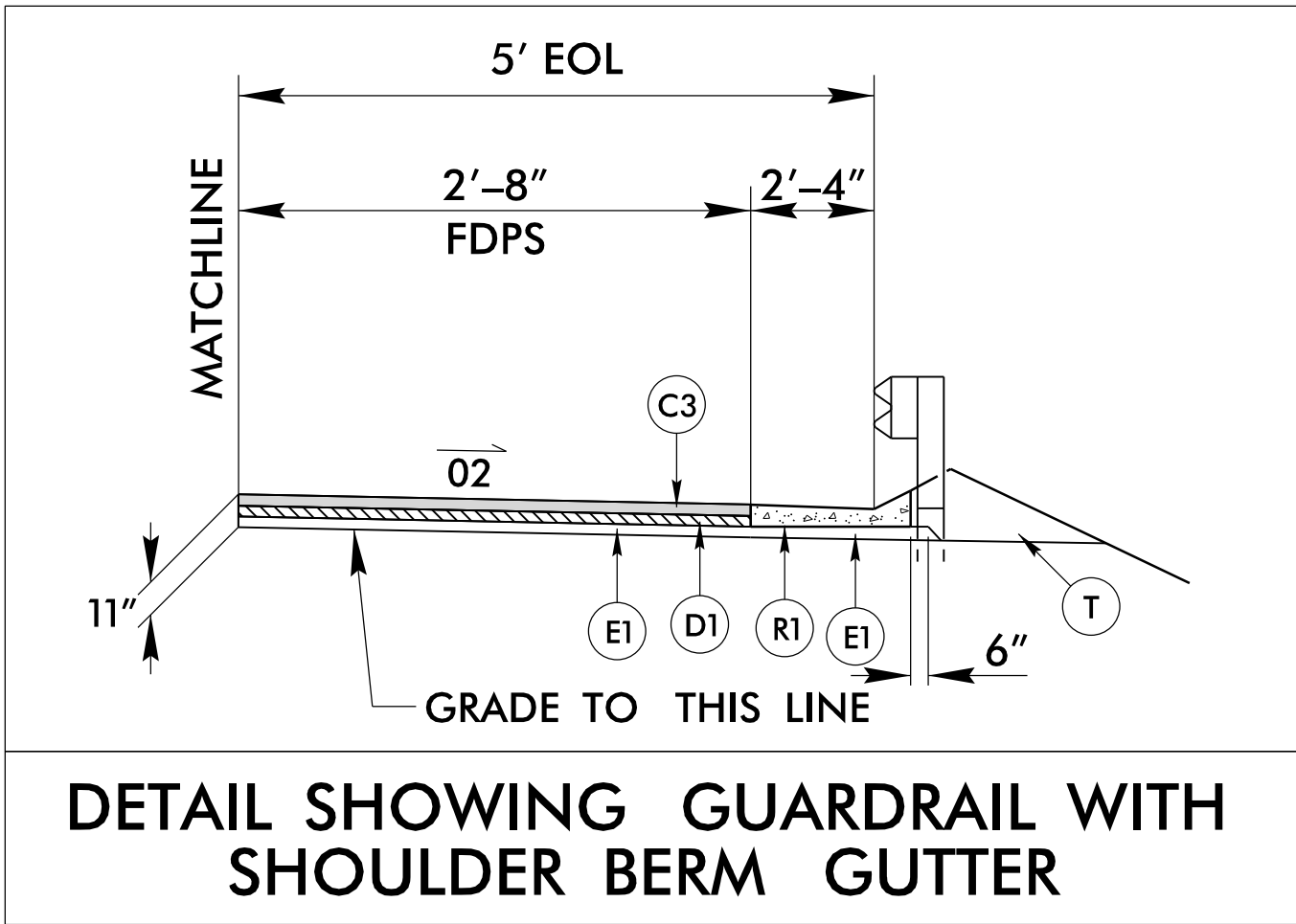
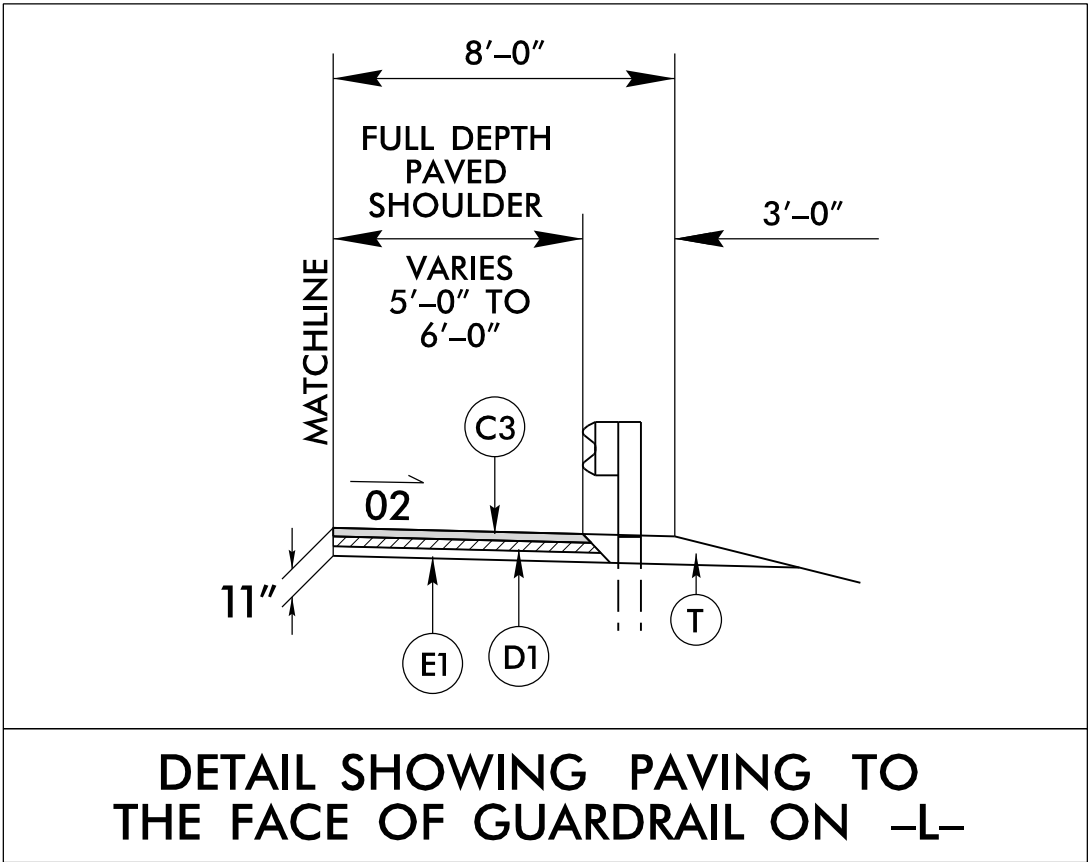
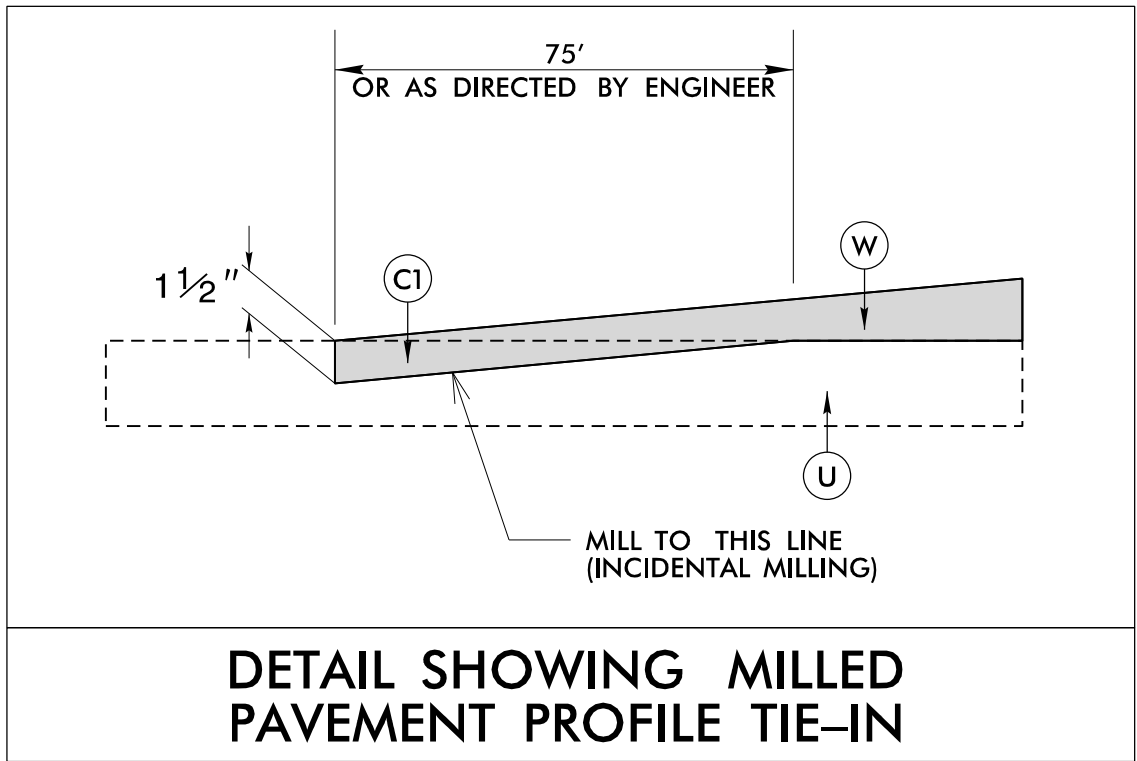
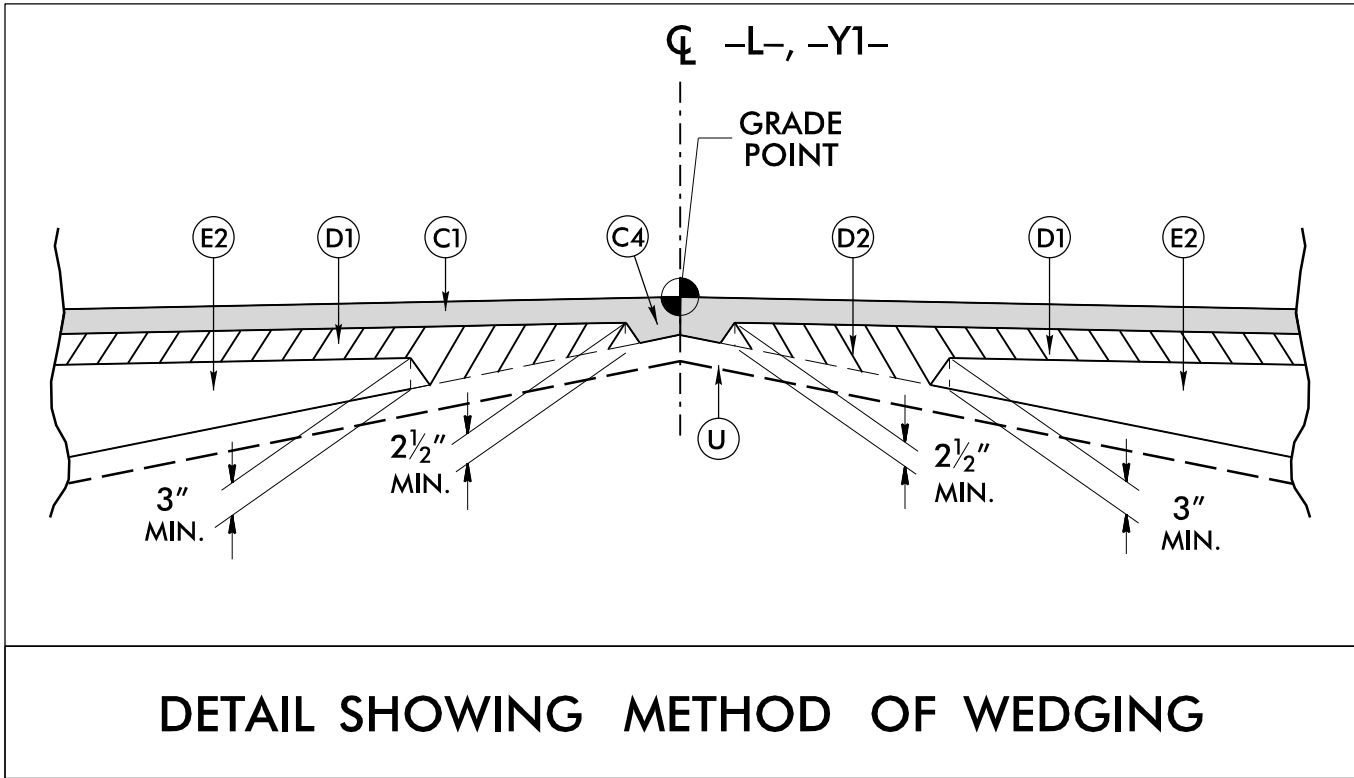
8/17/99

6/12/2025
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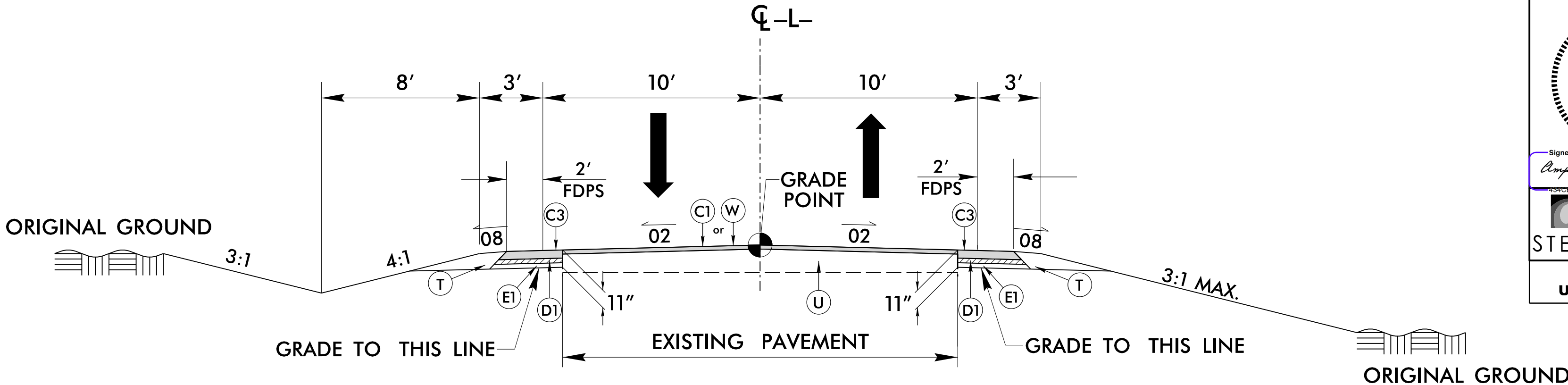
REVISIONS

PAVEMENT SCHEDULE	
(FINAL PAVEMENT DESIGN 12/7/2018)	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, 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 5½" IN DEPTH.
J1	PROP. 6" AGGREGATE BASE COURSE
P1	PRIME COAT AT THE RATE OF .35 GAL. PER SQ. YD.
R1	SHOULDER BERM GUTTER.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING DETAIL, SEE DETAIL THIS SHEET

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

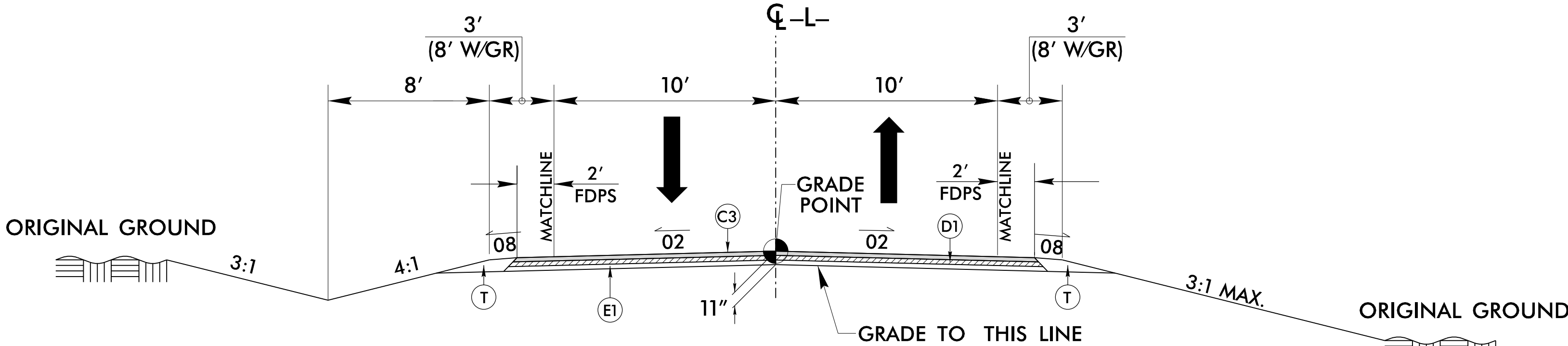


USE SHOULDER BERM GUTTER AT THE FOLLOWING LOCATIONS:
-L- STA. 17+44.00 TO -L- STA. 17+58.49 LT
-L- STA. 17+50.00 TO -L- STA. 17+66.08 RT
-L- STA. 27+47.93 TO -L- STA. 27+67.00 LT
-L- STA. 27+55.52 TO -L- STA. 27+67.00 RT



TYPICAL SECTION NO. 1

-L- STA. 11+00.00 TO -L- STA. 13+05.65
-L- STA. 29+87.50 TO -L- STA. 32+00.00



TYPICAL SECTION NO. 2

-L- STA. 13+05.65 TO -L- STA. 17+75.13 (BEGIN BRIDGE)
-L- STA. 27+38.88 (END BRIDGE) TO -L- STA. 29+87.50

PROJECT REFERENCE NO.		SHEET NO.	
B-5614		2A-1	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
			
Signed by: <i>Amjed Alkhatib</i> 6/12/2025		DocuSigned by: <i>Shuhai Zhang</i> 6/12/2025	
 Firm License No. 0-1151 222 S. WEST ST. Suite 1400 Raleigh, NC 27603 T. 919.286.8799 www.stewartinc.com		 Firm License No. 0-1151 222 S. WEST ST. Suite 1400 Raleigh, NC 27603 T. 919.286.8799 www.stewartinc.com	
STEWART		STEWART	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

SUMMARY OF EARTHWORK
IN CUBIC YARDS

Station	Station	Uncl. Excav.	Undercut Excav.	Embank. +%	Borrow	Waste
-L- Sta. 11+00.00	-L- Sta. 17+75.13 (BR)	61	1,700	7,466	7,405	1,700
-DRIVE- Sta. 10+10.00	-DRIVE- Sta. 11+95.00	0	500	764	764	500
SUBTOTAL:		61	2,200	8,230	8,169	2,200
-L- Sta. 27+38.88 (BR)	-L- Sta. 32+00.00	130	200	498	368	200
-Y1- Sta. 10+10.00	-Y1- Sta. 12+50.00	22	0	296	274	0
SUBTOTAL:		152	200	794	642	200
TOTAL		213	2,400	9,024	8,811	2,400
ADDITIONAL UNDERCUT			900			900
EST. SHOULDER MATERIAL				390	390	
PROJECT TOTAL:		213	3,300	9,414	9,201	3,300
EST. 5% REPLACE TOPSOIL ON BORROW PIT					460	
GRAND TOTALS:		213	3,300		9,661	
SAY:		225	3,300		10,145	

DDE = 10 CY

SELECT GRANULAR MATERIAL = 2,400 CY
SELECT GRANULAR MATERIAL = 900 CY (CONTINGENCY)
TOTAL SELECT GRANULAR MATERIAL = 3,300 CY

GEOTEXTILE FOR SOIL STABILIZATION = 500 SY (CONTINGENCY)
GEOTEXTILE FOR SOIL STABILIZATION = 400 SY
GEOTEXTILE FOR SOIL STABILIZATION = 400 SY (CONTINGENCY)
TOTAL GEOTEXTILE FOR SOIL STABILIZATION = 1,300 SY

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

Note: Earthwork quantities are calculated by the Roadway Design Engineer.
These earthwork quantities are based in part on subsurface data provided by
the Geotechnical Engineer.

PAVEMENT REMOVAL SUMMARY
IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	12+63	14+72	LT	264			
EXIST.				75			
-Y1-/L-	10+70	29+60	LT	202			
EXIST.				163			
		TOTAL:		704			
		SAY:		725			

SHOULDER BERM GUTTER SUMMARY
IN LINEAR FEET

LINE	Station	Station	LENGTH
-L- LT	17+44.00	17+58.49 (BR)	14.5
-L- RT	17+50.00	17+66.08 (BR)	16.1
-L- LT	27+47.93 (BR)	27+67.00	19.1
-L- RT	27+55.52 (BR)	27+67.00	11.5
		TOTAL:	61.1
		SAY:	65

"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

GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

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		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	Type III	B-77	GREU, TL-3	GREU, TL-2	CAT-1	AT-1	Type III SC	B-77 SC	TES	G	NG					
-L-	16+94.00	17+71.86	LT	87.50				17+71.86	5'	8'		50'		1'	1		1													
-L-	17+00.00	17+79.90	RT	87.50			17+79.90		5'	8'	50'		1'		1		1													
EXIST.																														
EXIST.																														
EXIST.				25.00																										
EXIST.				25.00																										
-L-/-Y1-	27+34.11	10+65.84	LT/RT	50.00	50.00		27+34.11		5'	8'	50'		1'		1					1										
-L-	27+42.15	28+17.15	RT	75.00				27+42.15	5'	8'		50'		1'	1		1													
			SUBTOTAL:	350.00	50.00										4		3			1			4				57			
			LESS ANCHOR DEDUCTIONS:																											
			TYPE III (4 @ 18.75')	-75.00																										
			GREU, TL-3 (3 @ 50')	-150.00																										
			AT-1 (1@6.25')		-6.25																									
			TOTAL:	125.00	43.75										4		3			1			4				57			
			SAY:	125.00	50.00										4		3			1			4				60			
			ADDITIONAL GUARDRAIL POSTS = 5 EA																											

8/17/99

REVISIONS

6/10/2025 B-5614_RDY_SUM_3B-1.dgn
USER: jcloult

COMPUTED BY: Tyler C. Bottoms DATE: 6/3/20
CHECKED BY: Jinyoung Park DATE: 6/17/20
REVISED BY: Jinyoung Park DATE: 1/5/22

PROJECT NO.	SHEET NO.
B-5614	3G-1

(5-15-18)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	200
				TOTAL LF:	200

*UD = Underdrain
*BD = Blind Drain
*SD = Subsurface Drain

SUMMARY OF
SETTLEMENT GAUGES

Gauge No.	LINE and Station	Offset	
		Distance FT	Direction LT/RT
1	-L- 17+65±	16±	LT
2	-L- 17+70±	16±	RT
TOTAL GAUGES (EACH):			2

SUMMARY OF BRIDGE WAITING PERIODS

Bridge Description	End Bent/ Bent No.	MONTHS
Bridge 9 over Blounts Creek on SR 1112 (Mouth of the Creek Rd)	End Bent 1	3

8/17/99

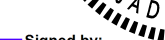
REVISIONS

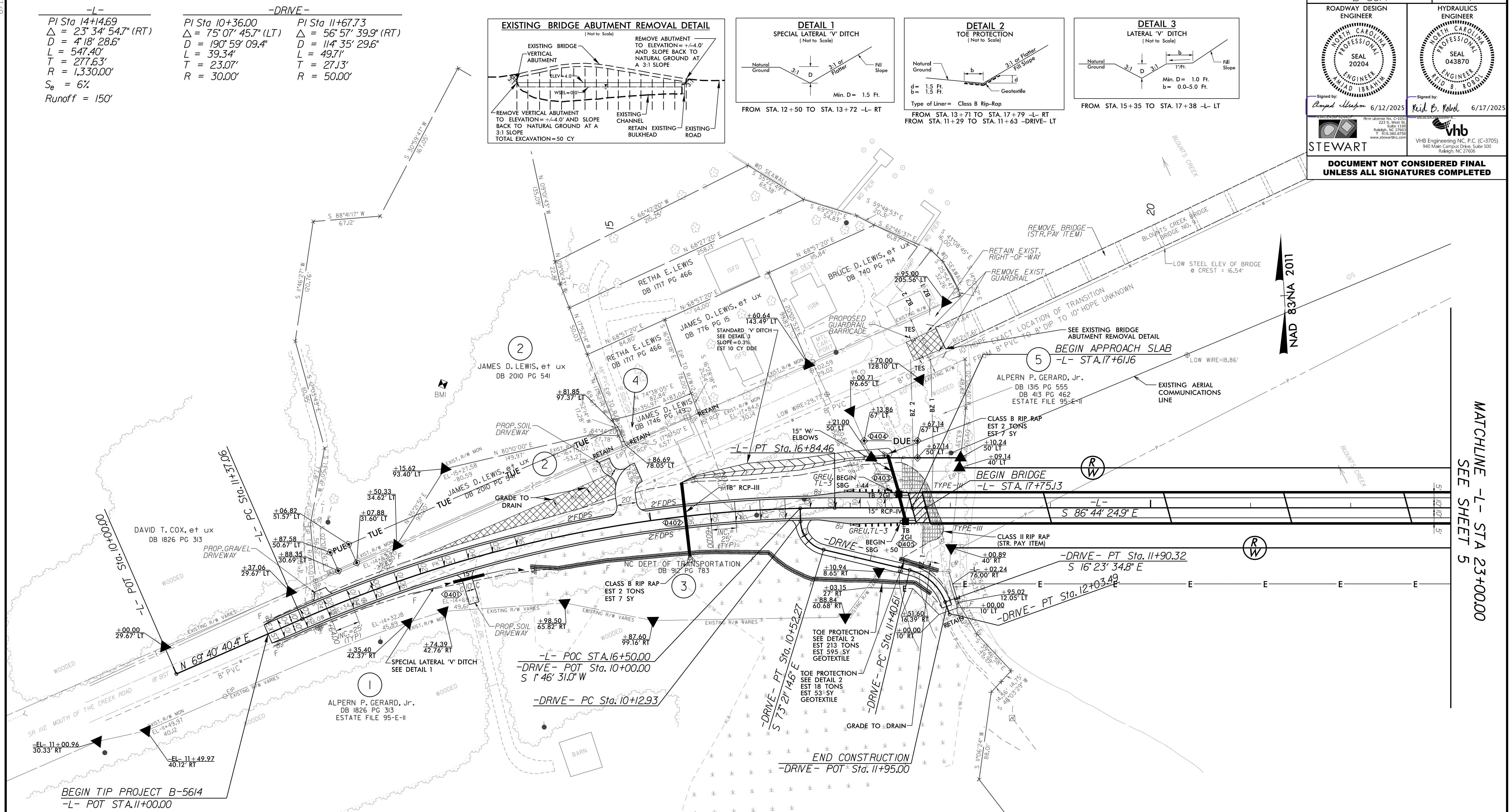
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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	ALPERN P. GERARD, JR.
2	4	JAMES D. LEWIS, ET UX
3	4, 5	NC DEPARTMENT OF TRANSPORTATION
4	4	JAMES D. LEWIS
5	4	ALPERN P. GERARD, JR.
6	5	ROBERT LAWRENCE
7	5	JONATHAN KASSNOVE, ET AL
8	5	SHIRLEY STONE
9	5	REBECCA R. FURMAN, ET VIR

PROJECT REFERENCE NO.		SHEET NO.	
B-5614		4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
Signed by: 		Signed by: 	
6/12/2025		6/17/2025	
			
Firm License No. CO-10931 Exp. Date 12/31/21 Sub# 1100 Raleigh, NC 27602 P 919.380.8903 www.stewartinc.com		BROCK/DAVID B. ROOD VHB Engineering NC, P.C. (C-3705) 3401 Wren Campus Drive, Suite 500 Raleigh, NC 27606	
STEWART			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



MATCHLINE -L- STA 23+00.00
SEE SHEET 5

PAVEMENT REMOVAL

ALL DRIVEWAY RADII ARE 10'

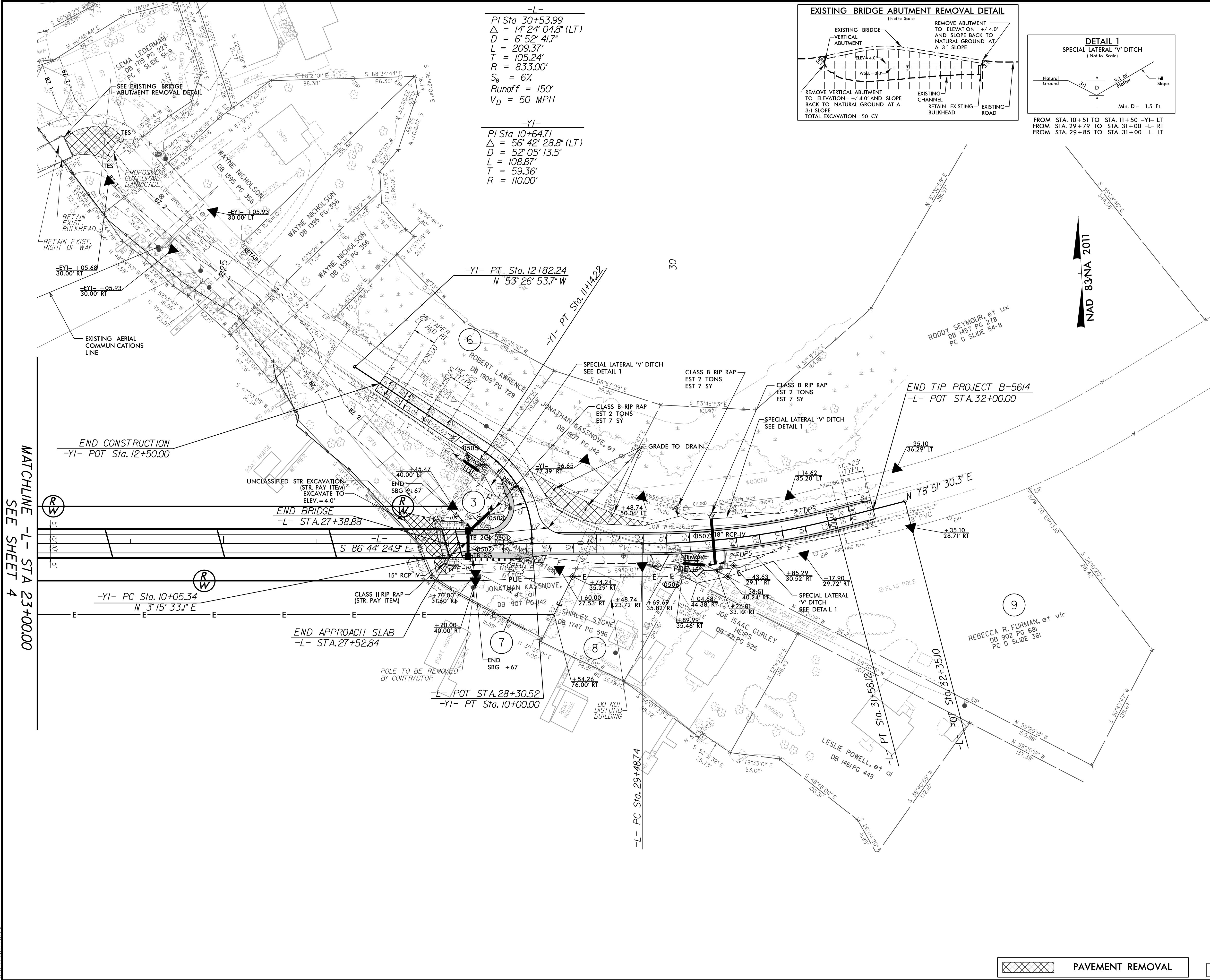
FOR -L- PROFILE SEE SHEET 6

FOR -DRIVE- PROFILE SEE SHEET 8

FOR STRUCTURE PLANS SEE SHEETS S-1 THRU S-50

8/17/99

6/10/2025 B5614_RDY_PS405.dgn
USER:dbault



-L-
PI Sta 30+53.99
 $\Delta = 14^{\circ} 24' 04.8''$ (LT)
 $D = 6^{\circ} 52' 41.7''$
 $L = 209.37'$
 $T = 105.24'$
 $R = 833.00'$
 $S_e = 6\%$
Runoff = 150'
 $V_D = 50$ MPH

-YI-
PI Sta 10+64.71
 $\Delta = 56^{\circ} 42' 28.8''$ (LT)
 $D = 52^{\circ} 05' 13.5''$
 $L = 108.87'$
 $T = 59.36'$
 $R = 110.00'$

-YI- PT. Sta. 12+82.24
N $53^{\circ} 26' 53.7''$ W

-YI- PT. Sta. 11+14.22
N $53^{\circ} 26' 53.7''$ W

-L- STA. 27+38.88
S $86^{\circ} 44' 24.9''$ E

-YI- PC Sta. 10+05.34
N $3^{\circ} 15' 33.1''$ E

-L- POT STA. 28+30.52
-YI- PT Sta. 10+00.00

-L- PC Sta. 29+48.74

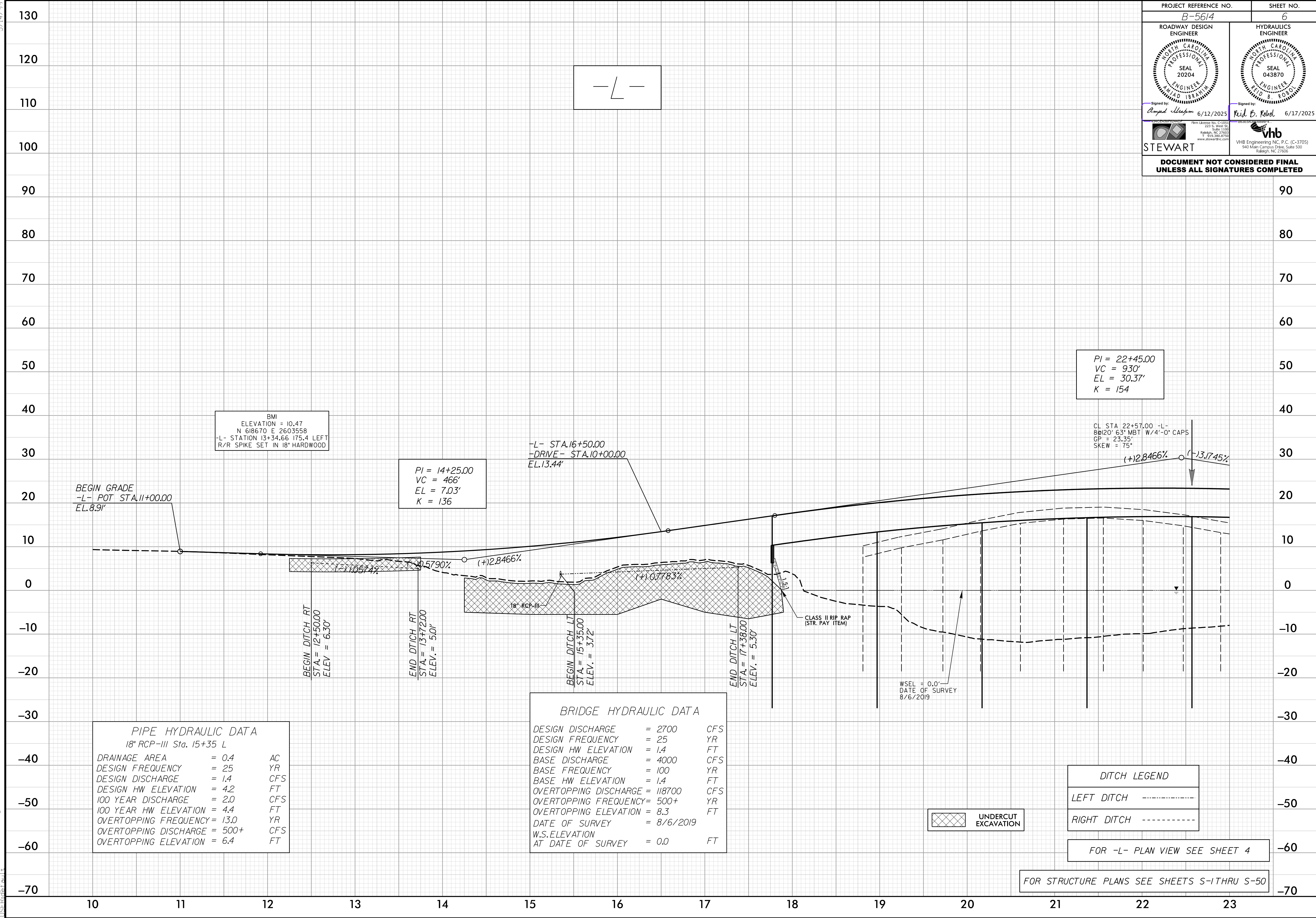
-L- POT STA. 32+00.00

-L- POT STA. 32+00.00

5/14/99

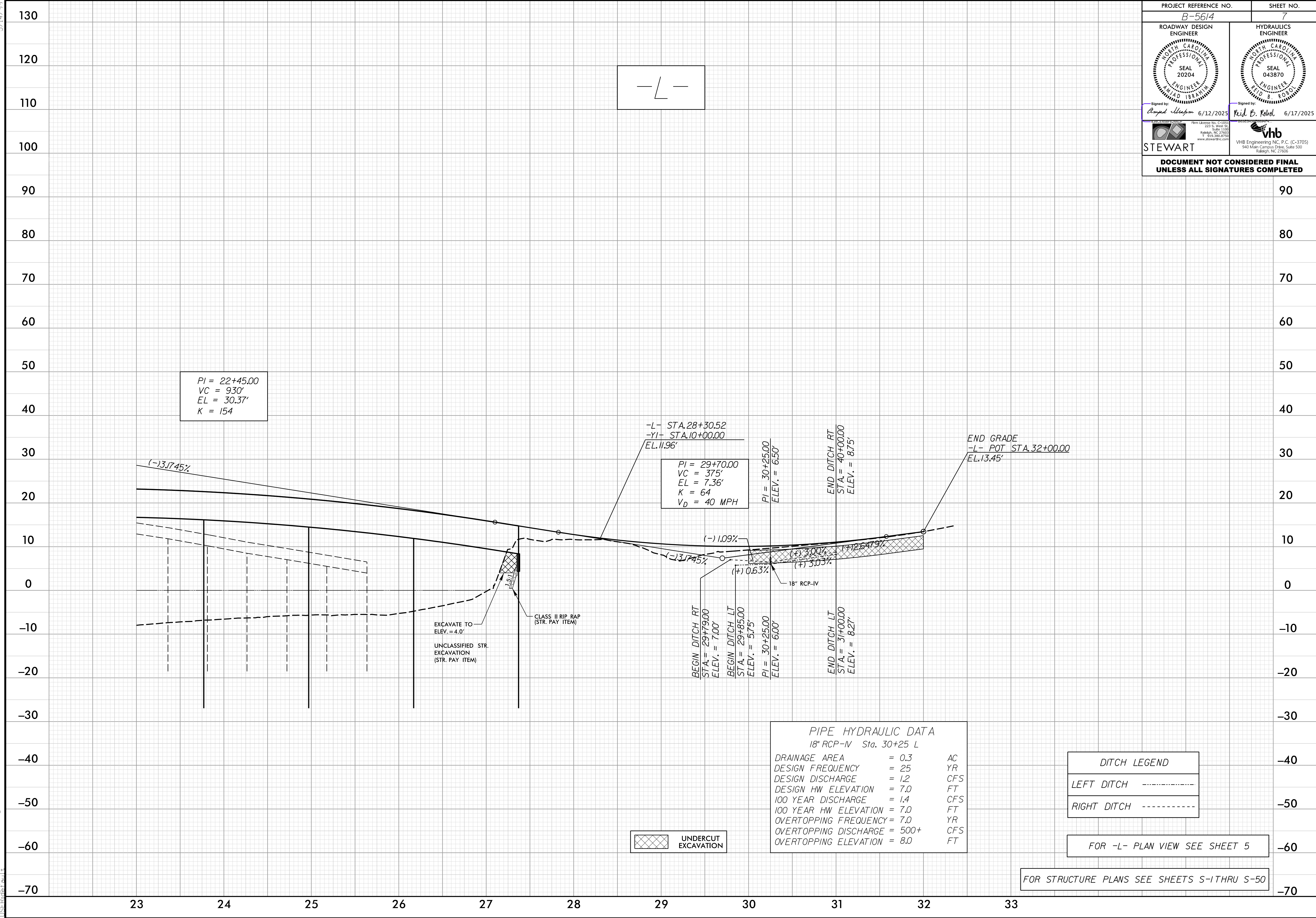
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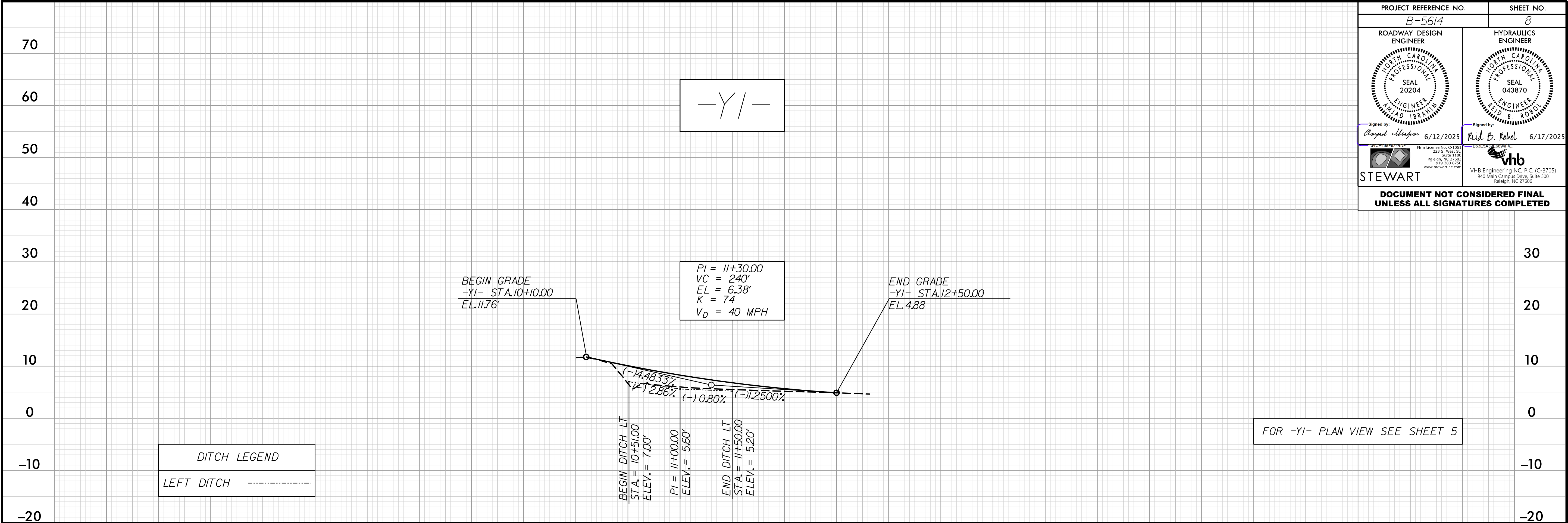


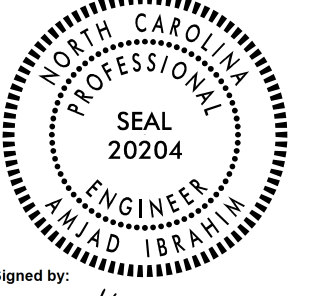
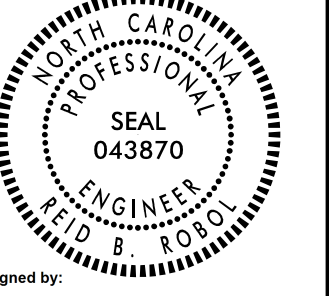
5/14/99

6/10/2025 B-5614_RDY_PFL07.dgn



5/28/99



PROJECT REFERENCE NO. <i>B-5614</i>		SHEET NO. <i>8</i>	
ROADWAY DESIGN ENGINEER  Signed by: <i>Ahmad Ibrahim</i> 6/12/2025		HYDRAULICS ENGINEER  Signed by: <i>Keith B. Rohel</i> 6/17/2025	
 STEWART		 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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1156148.dgn

