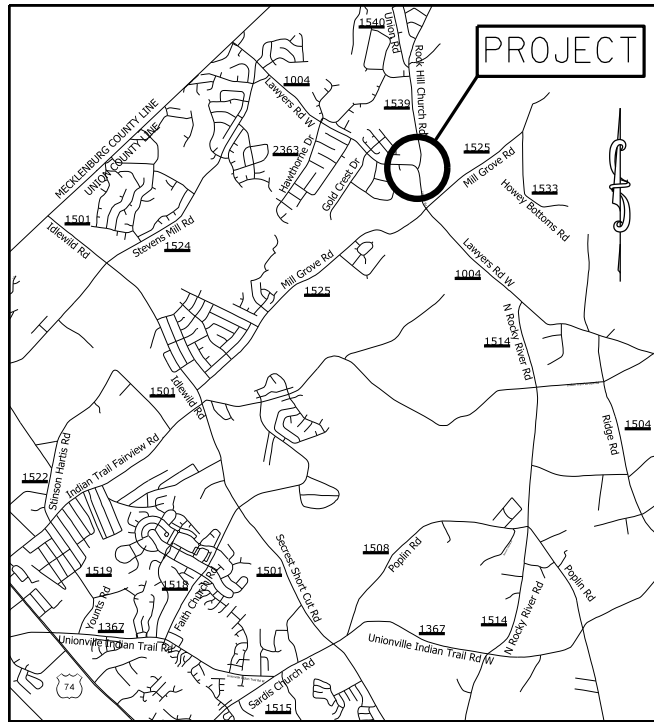


PROJECT: 50138.3.245 TIP:W-5601IJ



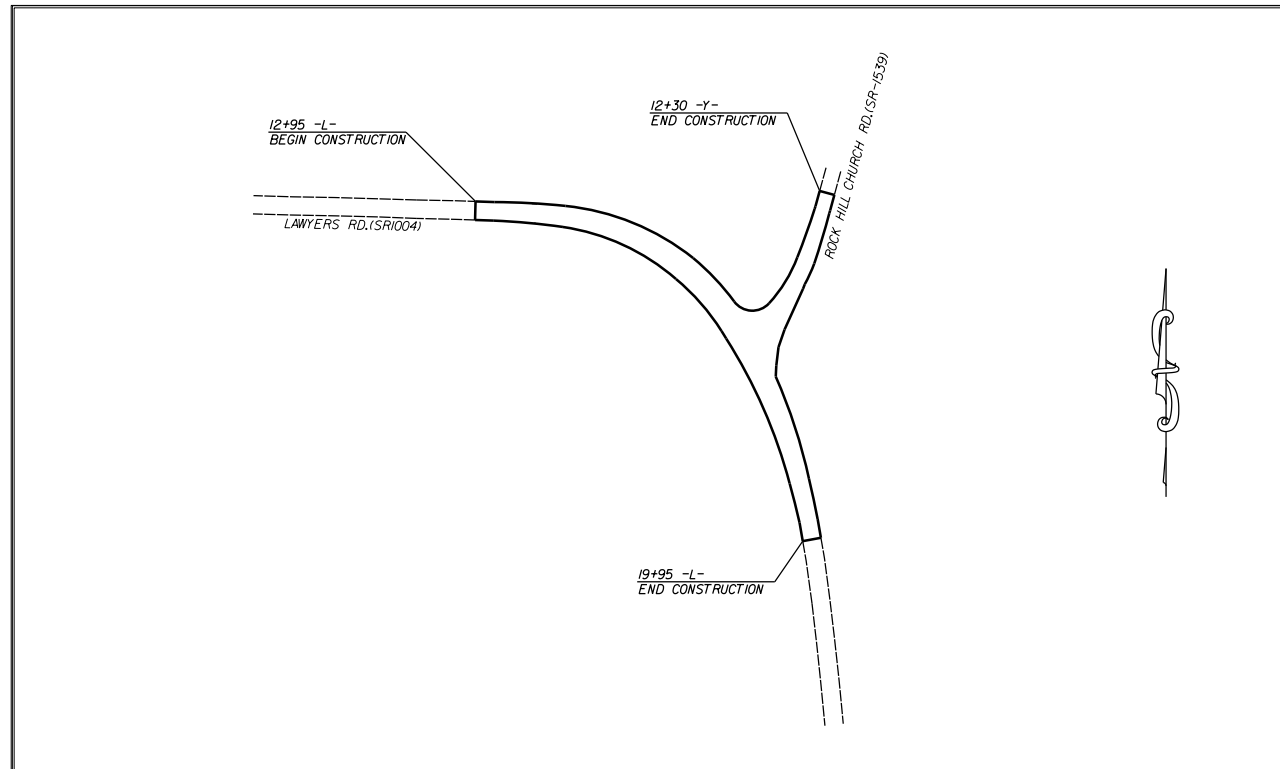
VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
UNION COUNTY

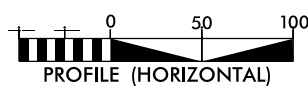
LOCATION: INTERSECTION OF LAWYERS RD. (SR-1004) AND
 ROCK HILL CHURCH RD. (SR-1539)

TYPE OF WORK: GRADING, PAVING, MILLING, DRAINAGE,
 THERMOPLASTIC PAVEMENT MARKING.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.245	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50138.1.245	HSIP-1004(062)	P.E.	
50138.2.245	HSIP-1004(062)	R/W	
50138.3.245	HSIP-1004(062)	CONST.	



GRAPHIC SCALES



DESIGN DATA

ADT _____ = _____
 ADT _____ = _____
 DHV = _____ %
 D = _____ %
 T = _____ %
 V = _____ MPH

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 50138.3.245 = 0.18 MILES
 TOTAL LENGTH OF STATE PROJECT 50138.3.245 = 0.18 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
 DIVISION TEN
 DIVISION DESIGN / CONSTRUCT UNIT

RIGHT OF WAY DATE:

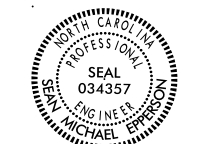
DONALD HARWARD
 PROJECT ENGINEER

LETTING DATE:

DONALD HARWARD
 PROJECT DESIGN ENGINEER




ROADWAY DESIGN ENGINEER



DocuSigned by:

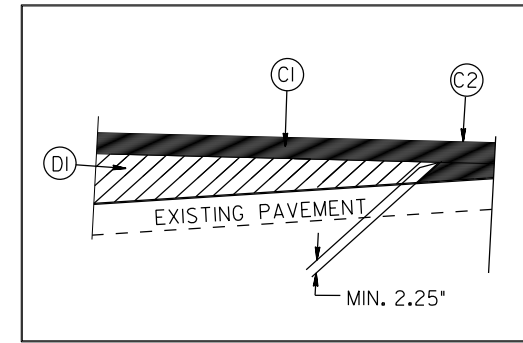
 SIGNATURE

ROADWAY DESIGN
ENGINEER

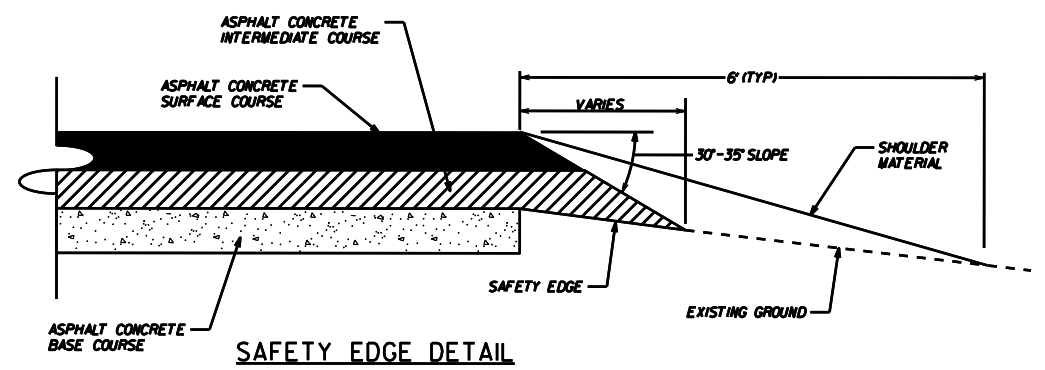


Documented by:
Stan

A92E75CC0FFB43B...



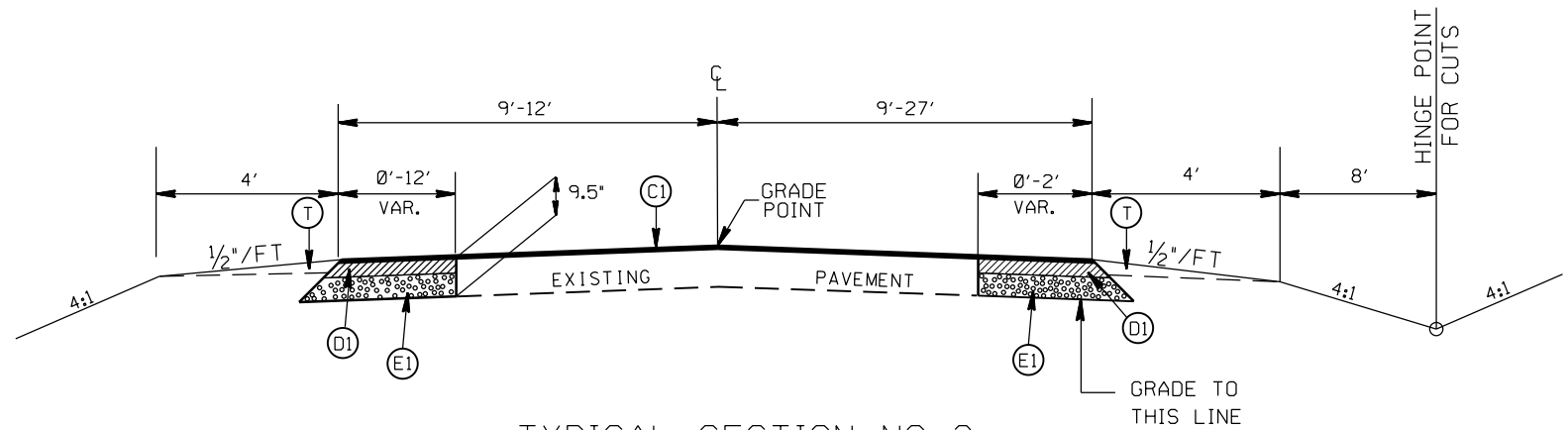
WEDGING DETAIL



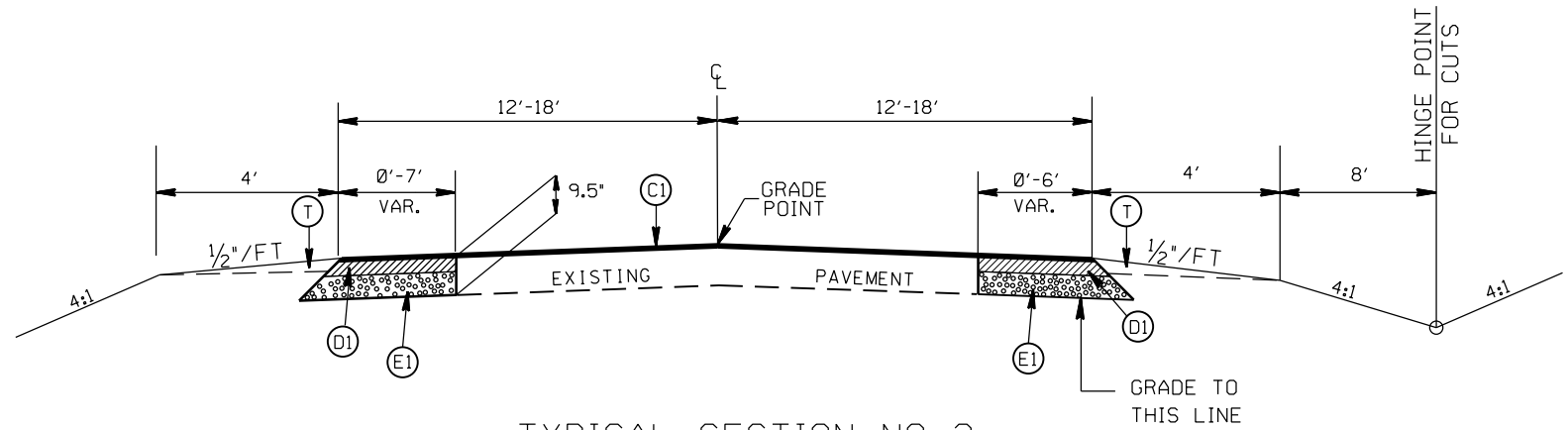
SAFETY EDGE DETAIL

PAVEMENT SCHEDULE

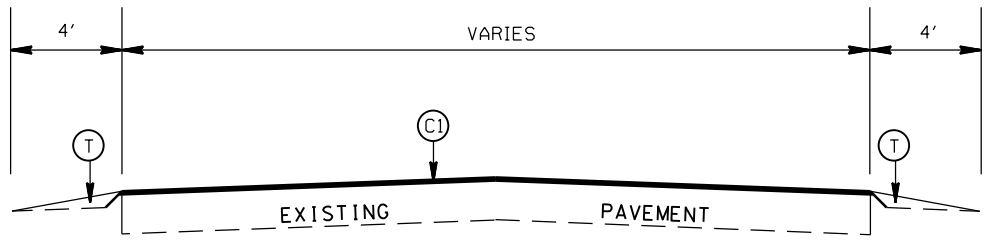
(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
(D1)	PROP. APPROX. 3" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(T)	EARTH MATERIAL



TYPICAL SECTION NO. 3
STA. 10+17 TO 12+05 -Y-



TYPICAL SECTION NO. 2
STA. 13+20 TO 19+70 -L-



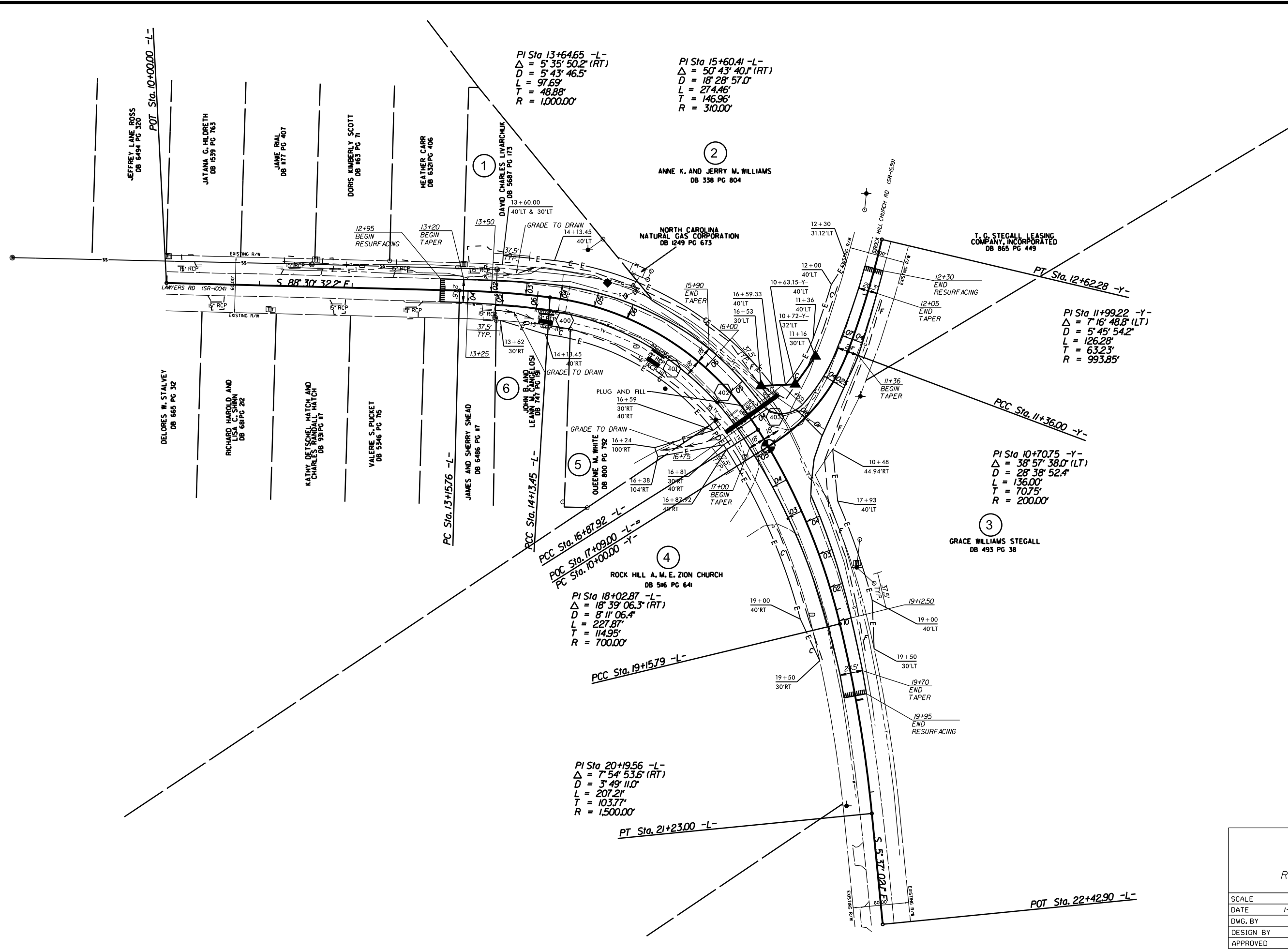
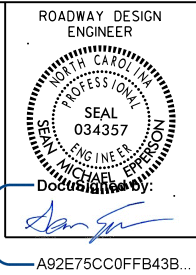
TYPICAL SECTION NO. 1
STA. 12+95 TO 13+20 -L-
STA. 19+70 TO 19+95 -L-
STA. 12+05 TO 12+30 -Y-

LEFT TURN LANE ON
LAWYERS RD. (SR-1004) ONTO
ROCK HILL CHURCH RD. (SR-1539)

SCALE r=50'
DATE 1-2019
DWG. BY TBL
DESIGN BY JDH
APPROVED JDH



REVISIONS	



PI Sta 11+99.22 -Y-
 $\Delta = 7^{\circ} 16' 48.8''$ (LT)
 $D = 5^{\circ} 45' 54.2''$
 $L = 126.28'$
 $T = 63.23'$
 $R = 993.85'$

PI Sta 10+70.75 -Y-
 $\Delta = 38^{\circ} 57' 38.0''$ (LT)
 $D = 28^{\circ} 38' 52.4''$
 $L = 136.00'$
 $T = 70.75'$
 $R = 200.00'$

PI Sta 13+64.65 -L-
 $\Delta = 5^{\circ} 35' 50.2''$ (RT)
 $D = 5^{\circ} 43' 46.5''$
 $L = 97.69'$
 $T = 48.88'$
 $R = 1,000.00'$

PI Sta 15+60.41 -L-
 $\Delta = 50^{\circ} 43' 40.1''$ (RT)
 $D = 18^{\circ} 28' 57.0''$
 $L = 274.46'$
 $T = 146.96'$
 $R = 310.00'$

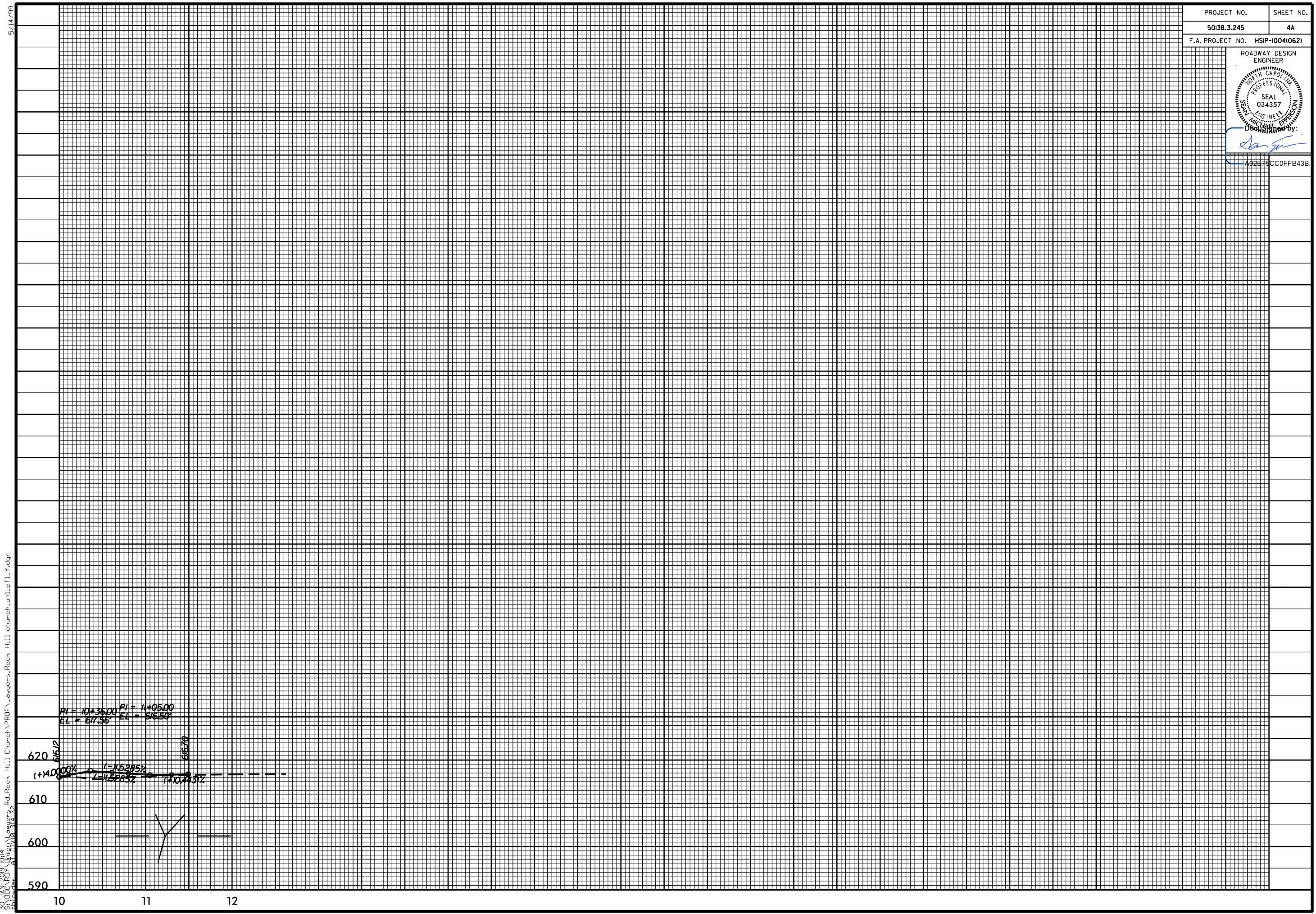
PI Sta 18+02.87 -L-
 $\Delta = 18^{\circ} 39' 06.3''$ (RT)
 $D = 8^{\circ} 11' 06.4''$
 $L = 227.87'$
 $T = 114.95'$
 $R = 700.00'$

PI Sta 20+19.56 -L-
 $\Delta = 7^{\circ} 54' 53.6''$ (RT)
 $D = 3^{\circ} 49' 11.0''$
 $L = 207.21'$
 $T = 103.77'$
 $R = 1,500.00'$

LEFT TURN LANE ON
 LAWYERS RD. (SR-1004) ONTO
 ROCK HILL CHURCH RD. (SR-1539)

SCALE	1"=50'		REVISIONS
DATE	1-2019		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	JDH		

30-JAN-2019 10:14
S:\DDC\RDY\Unigen\Lowyers_Rd=Rock Hill Church\PROF\Lowyers_Rock Hill church_uni.plt.dgn
Author: AL MW/0-5/14/12



PROJECT NO.	50138.3.245	SHEET NO.	4A
F.A. PROJECT NO. HSIP-10041062			
ROADWAY DESIGN ENGINEER			
Designated by:			
A92E76CC0FFB43B			

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.245	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50138.1.245	HSIP-1004(062)	P.E.	
50138.2.245	HSIP-1004(062)	R/W	
50138.3.245	HSIP-1004(062)	CONST.	

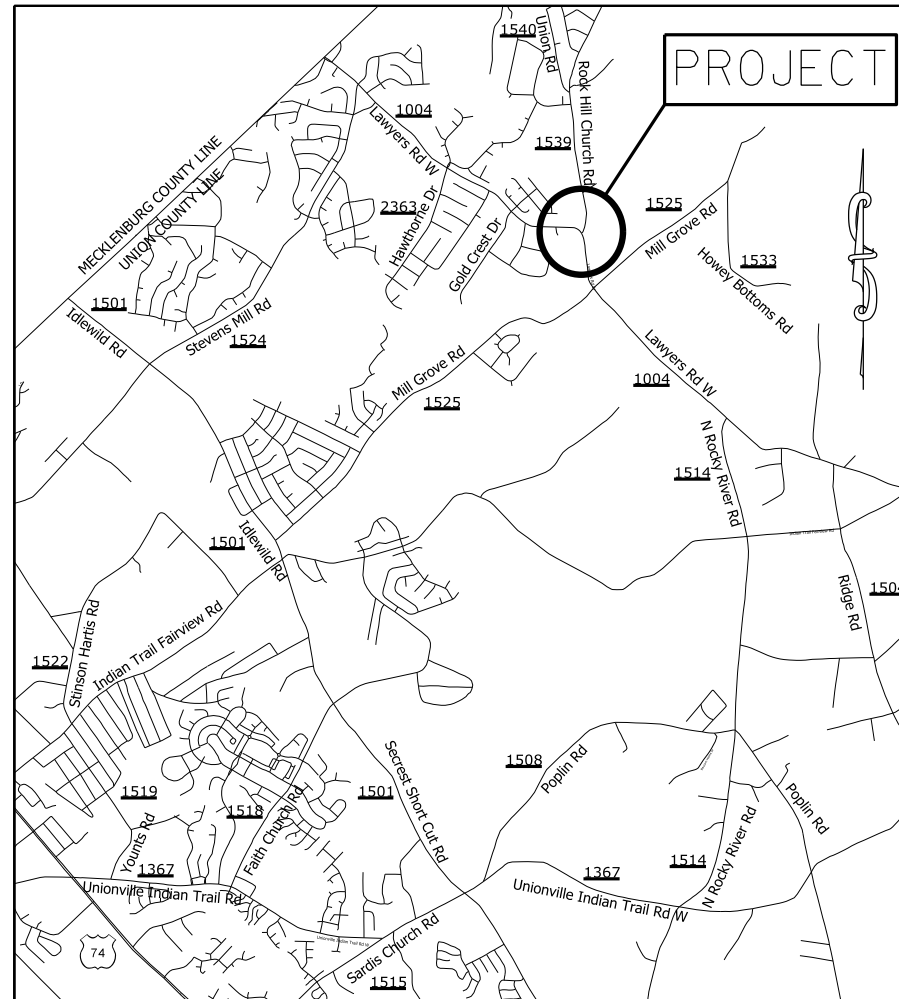
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL**

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
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	
	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	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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



VICINITY MAP NOT TO SCALE

PROJECT: 50138.3.245 TIP: W-56011J

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

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 3, 2011
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.

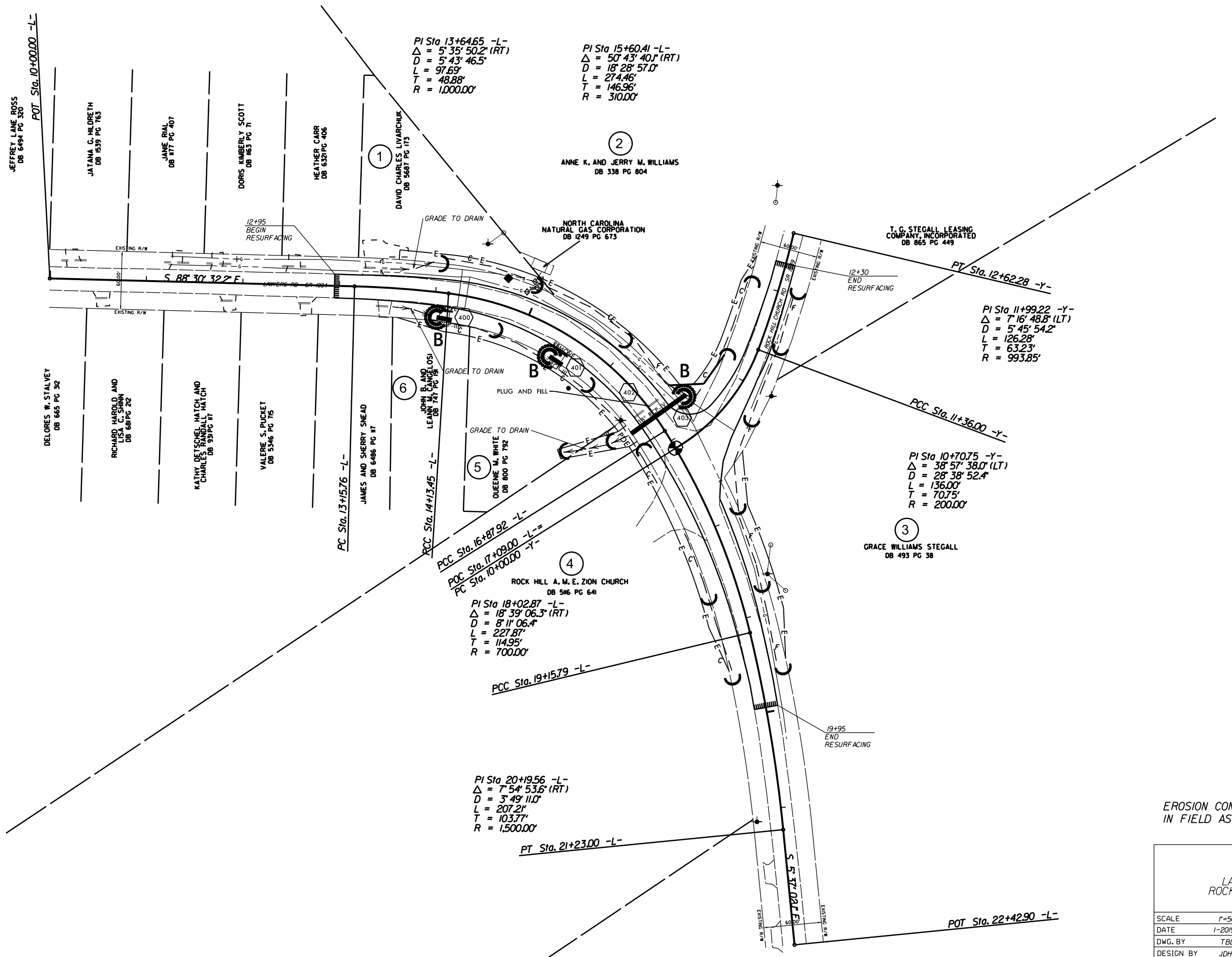
Prepared In the Office of:
DDC UNIT DIVISION 10
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
2018 STANDARD SPECIFICATIONS
TRAVIS LOWDER 3742
EROSION CONTROL DESIGNER LEVEL III CERTIFICATION #

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 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

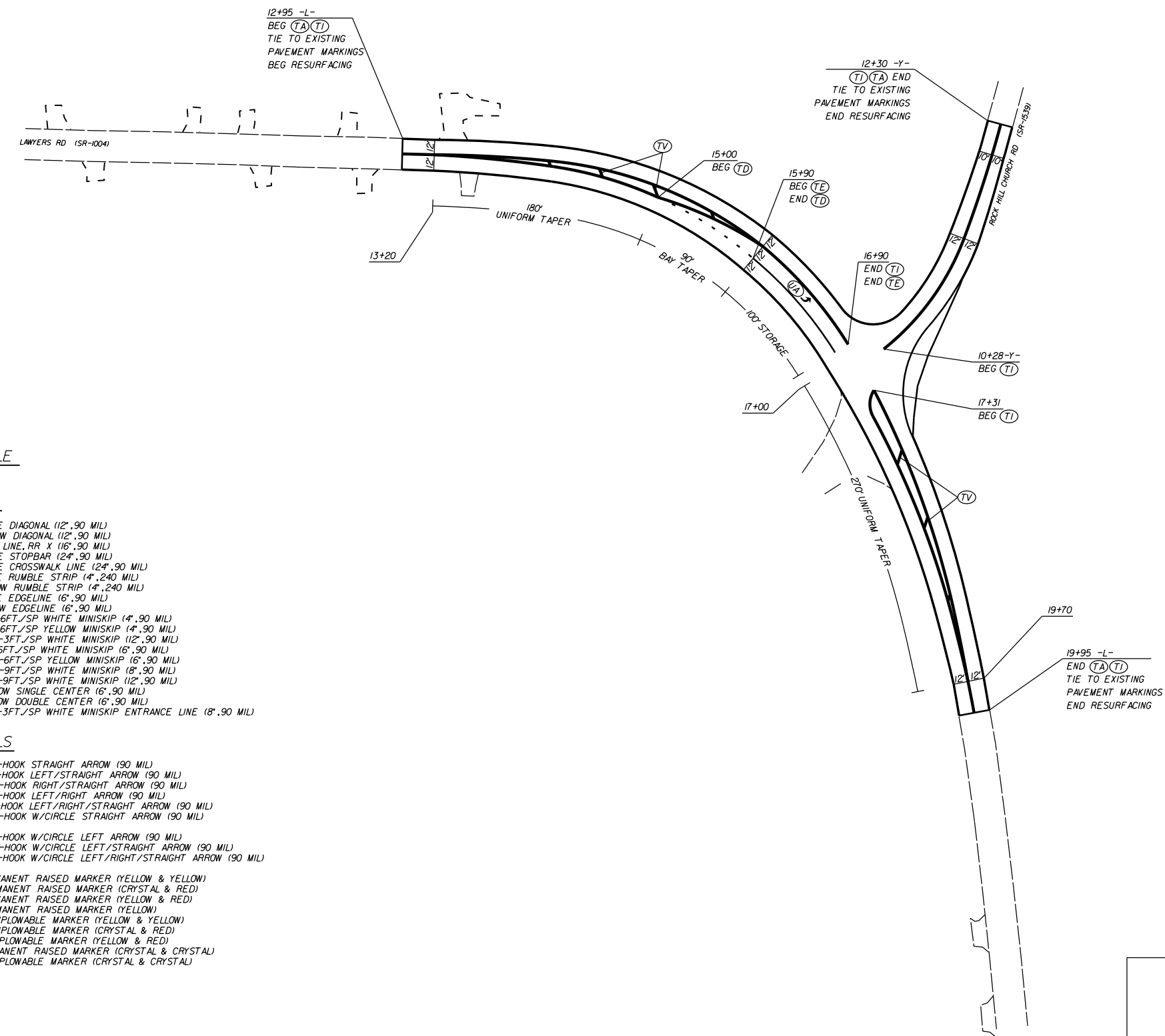
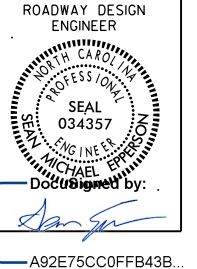
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type J
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type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

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Rd_Rock_Hill_Church_Unit1.ec.tsh.dgn
DIVISION OF HIGHWAYS



EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

LEFT TURN LANE ON LAWYERS RD. (SR-1004) ONTO ROCK HILL CHURCH RD. (SR-1539)			REVISIONS	
SCALE	1"=50'			
DATE	1-2019			
DWG. BY	TBL			
DESIGN BY	JDH			
APPROVED	JDH			



PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- | | |
|---|---|
| TA - WHITE EDGELINE (4',90 MIL) | TU - WHITE DIAGONAL (12',90 MIL) |
| TB - YELLOW EDGELINE (4',90 MIL) | TV - YELLOW DIAGONAL (12',90 MIL) |
| TC - 10FT. WHITE SKIP (4',90 MIL) | TI - WHITE LINE, RR X (16',90 MIL) |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4',90 MIL) | T2 - WHITE STOPBAR (24',90 MIL) |
| TE - WHITE SOLID LANE LINE (4',90 MIL) | T3 - WHITE CROSSWALK LINE (24',90 MIL) |
| TF - 10FT. YELLOW SKIP (4',90 MIL) | T4 - WHITE RUMBLE STRIP (4',240 MIL) |
| TH - YELLOW SINGLE CENTER (4',90 MIL) | T5 - YELLOW RUMBLE STRIP (4',240 MIL) |
| TI - YELLOW DOUBLE CENTER (4',90 MIL) | T6 - WHITE EDGELINE (16',90 MIL) |
| TJ - 10FT. WHITE SKIP (16',90 MIL) | T7 - YELLOW EDGELINE (16',90 MIL) |
| TK - 3FT.-9FT./SP WHITE MINISKIP (16',90 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4',90 MIL) |
| TL - WHITE SOLID LANE LINE (16',90 MIL) | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4',90 MIL) |
| TM - 10FT. YELLOW SKIP (16',90 MIL) | T10 - 3FT.-3FT./SP WHITE MINISKIP (12',90 MIL) |
| TN - WHITE GORELINE (18',90 MIL) | T11 - 2FT.-6FT./SP WHITE MINISKIP (16',90 MIL) |
| TO - WHITE DIAGONAL (18',90 MIL) | T12 - 2FT.-6FT./SP YELLOW MINISKIP (16',90 MIL) |
| TP - YELLOW DIAGONAL (18',90 MIL) | T13 - 3FT.-9FT./SP WHITE MINISKIP (8',90 MIL) |
| TQ - WHITE CROSSWALK LINE (18',90 MIL) | T14 - 3FT.-9FT./SP WHITE MINISKIP (12',90 MIL) |
| TR - WHITE SOLID LANE LINE (18',90 MIL) | T15 - YELLOW SINGLE CENTER (16',90 MIL) |
| TS - WHITE GORELINE (12',90 MIL) | T16 - YELLOW DOUBLE CENTER (16',90 MIL) |
| TT - WHITE SOLID LANE LINE (12',90 MIL) | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8',90 MIL) |

PAVEMENT MARKING SYMBOLS

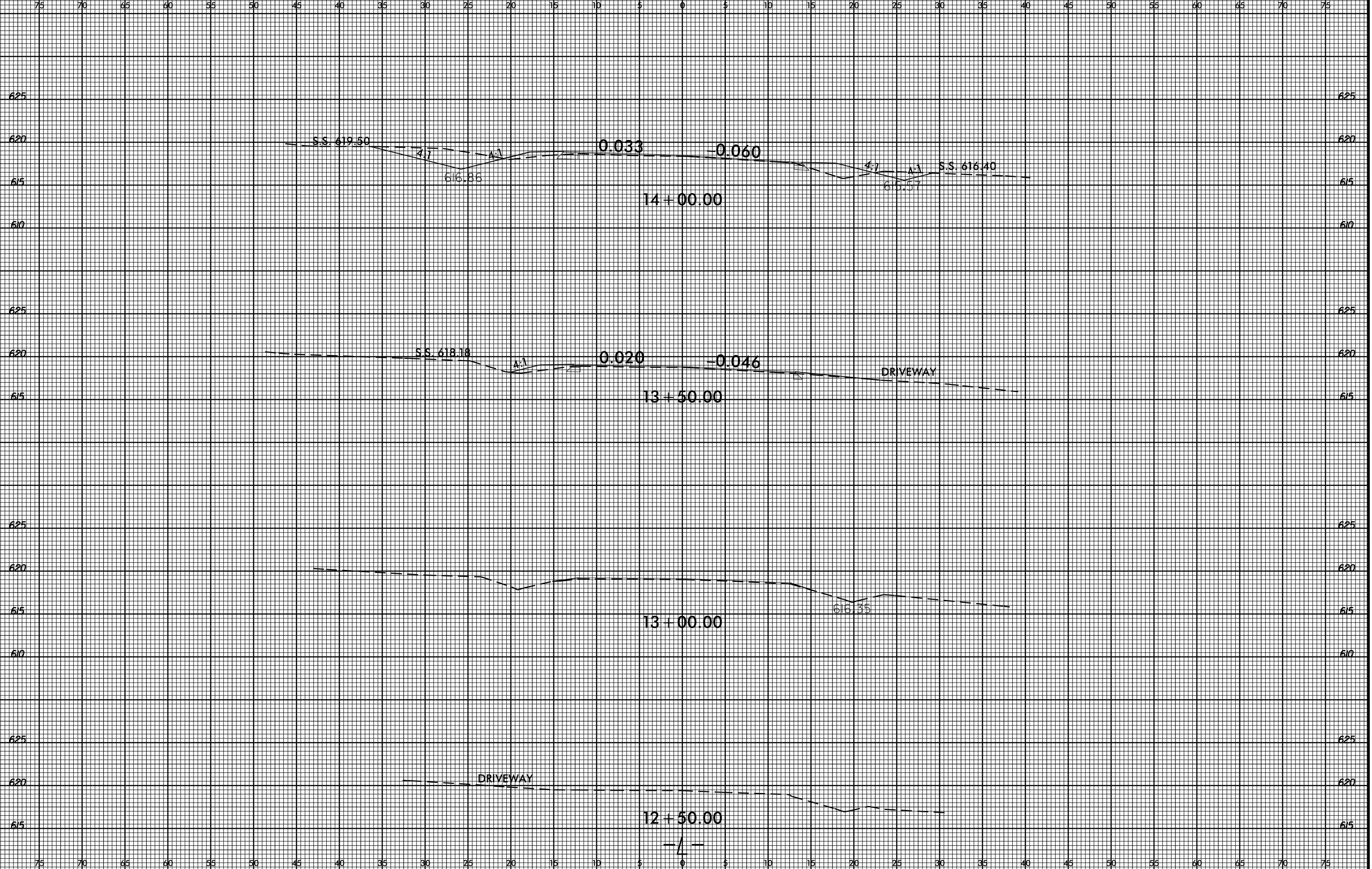
- | | |
|--|--|
| UA - LEFT TURN ARROW (90 MIL) | UU - FISH-HOOK STRAIGHT ARROW (90 MIL) |
| UB - RIGHT TURN ARROW (90 MIL) | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL) |
| UC - STRAIGHT ARROW (90 MIL) | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL) |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL) | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL) |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL) | UY - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL) |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL) | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL) |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) | WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL) |
| UH - HANDICAP PARKING (90 MIL) | WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL) |
| UI - ALPHANUMERIC CHAR. (90 MIL) | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UJ - BICYCLE SYMBOL (90 MIL) | |
| UK - BICYCLE STRAIGHT ARROW (90 MIL) | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW) |
| UL - BICYCLE CHAR. (90 MIL) | MB - PERMANENT RAISED MARKER (CRYSTAL & RED) |
| UM - 12" YIELD LINE TRIANGLE (90 MIL) | MC - PERMANENT RAISED MARKER (YELLOW & RED) |
| UN - 24" YIELD LINE TRIANGLE (90 MIL) | MD - PERMANENT RAISED MARKER (YELLOW) |
| UO - BICYCLE LEFT ARROW (90 MIL) | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW) |
| UP - MERGE ARROW (90 MIL) | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED) |
| UQ - RAMP ARROW SYMBOL (90 MIL) | MG - SNOWPLOWABLE MARKER (YELLOW & RED) |
| UR - SHARROW (90 MIL) | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL) |
| US - BICYCLE LOOP DETECTOR (90 MIL) | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL) |
| UT - U-TURN ARROW (90 MIL) | |

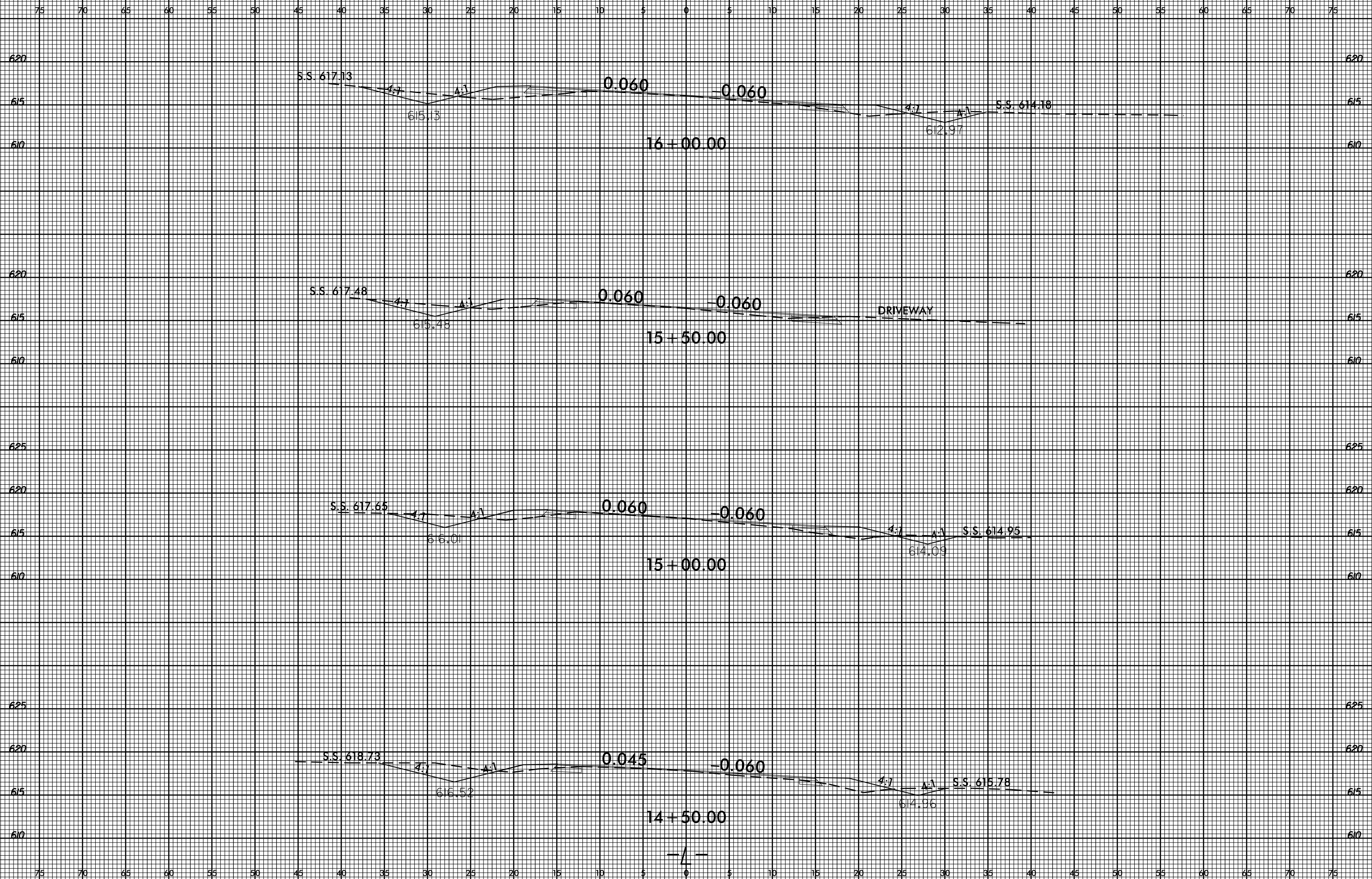
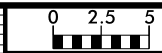
LEFT TURN LANE INSTALLED
ON LAWYERS RD. (SR-1004) ONTO
ROCK HILL CHURCH RD. (SR-1539)

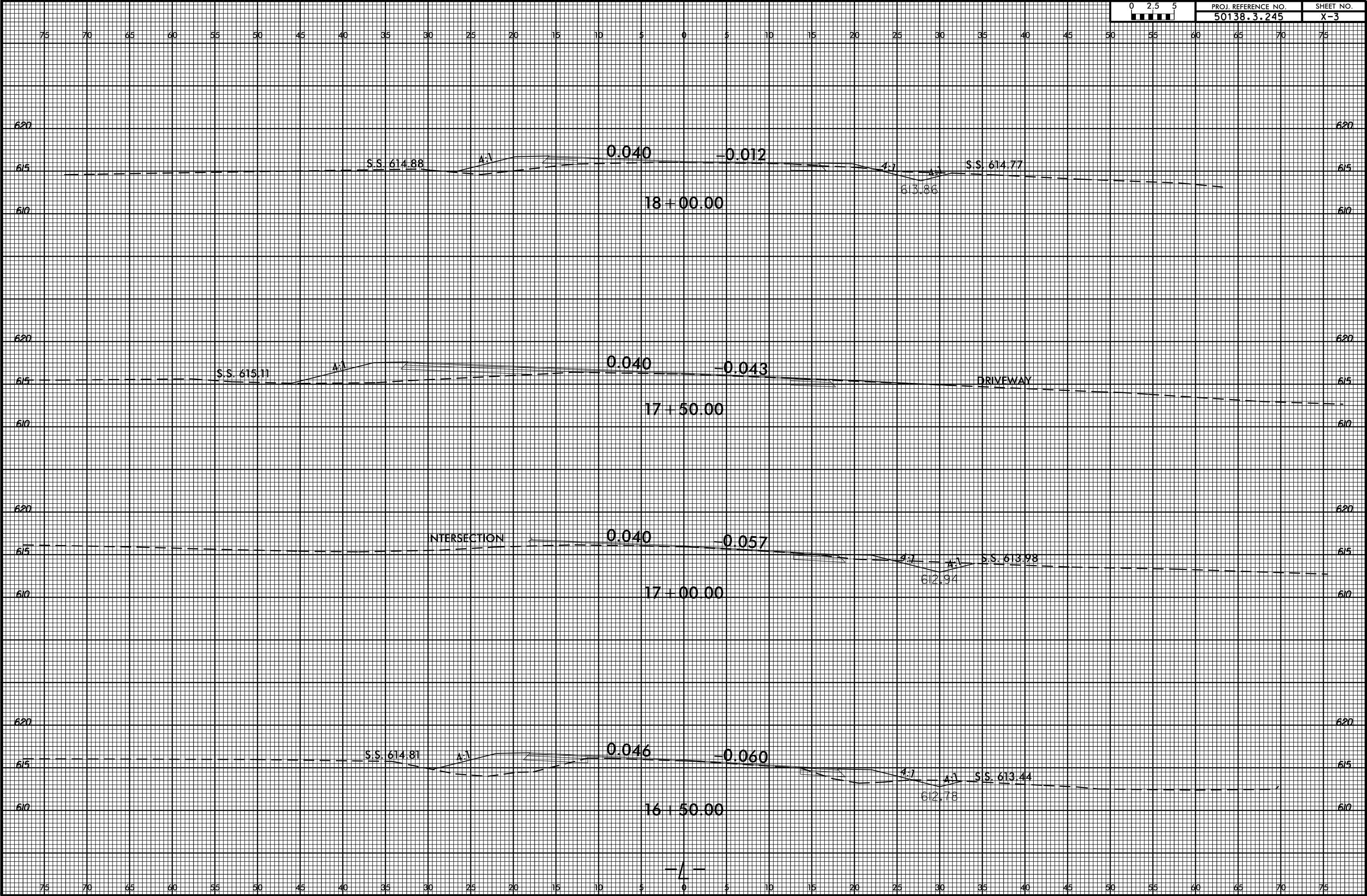
SCALE	1"=50'
DATE	1-2019
DWG. BY	TBL
DESIGN BY	JDH
APPROVED	JDH

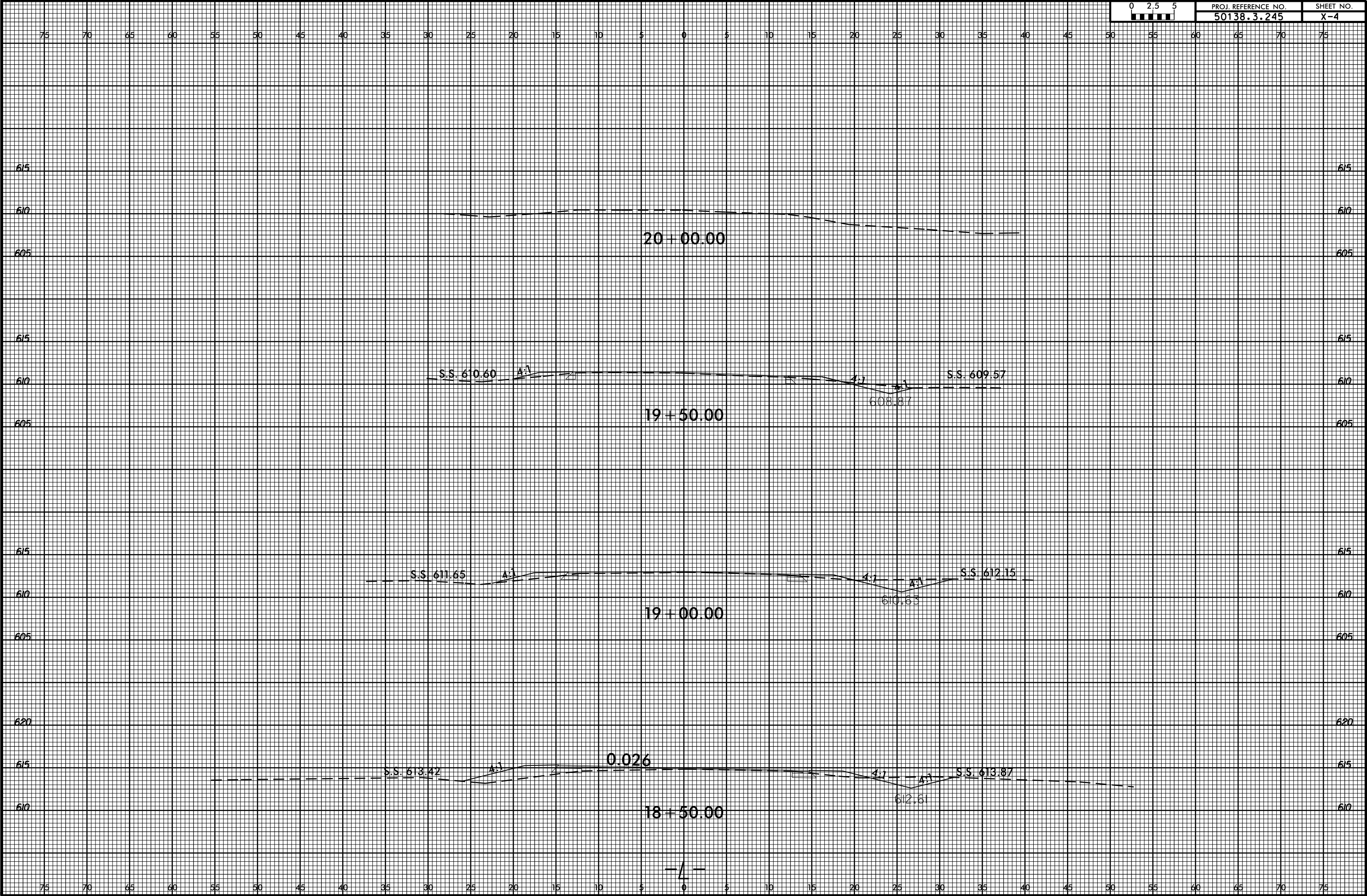


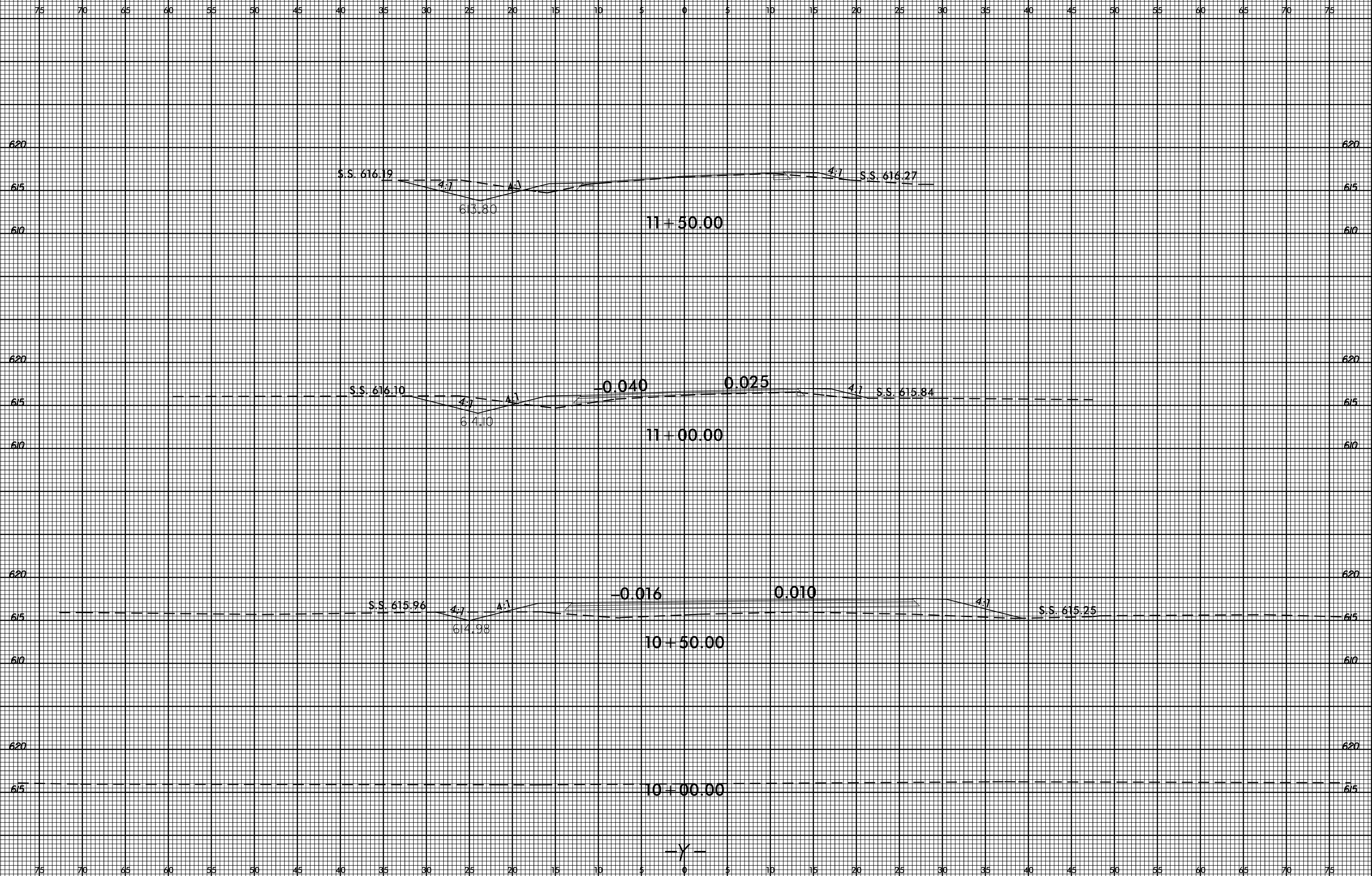
REVISIONS	













75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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S.S. 616.34

4:1

613.75

4:1

4:1

S.S. 616.32

12 + 50.00

12 + 00.00

--Y--