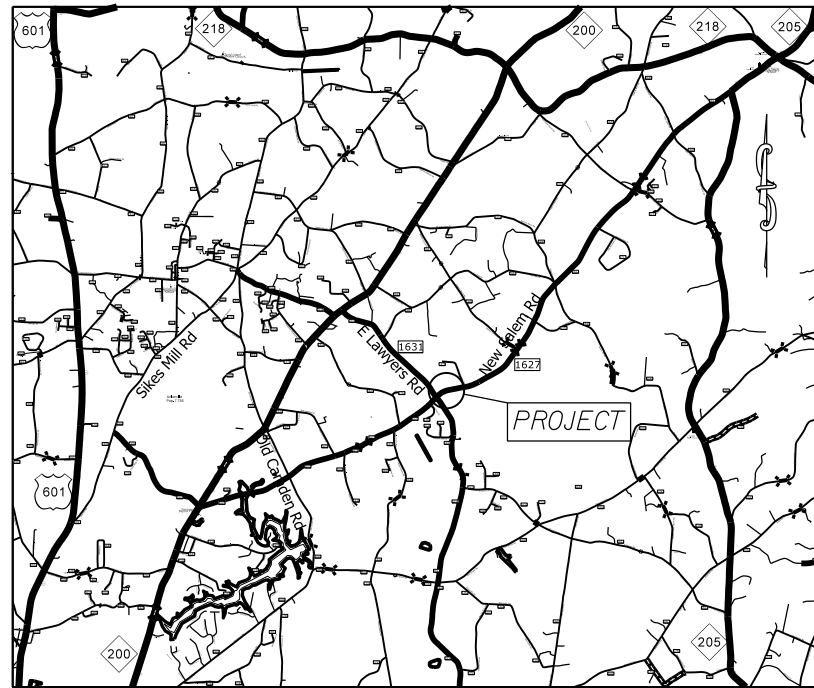


PROJECT: 47460.3.1 TIP: SS-4910CX

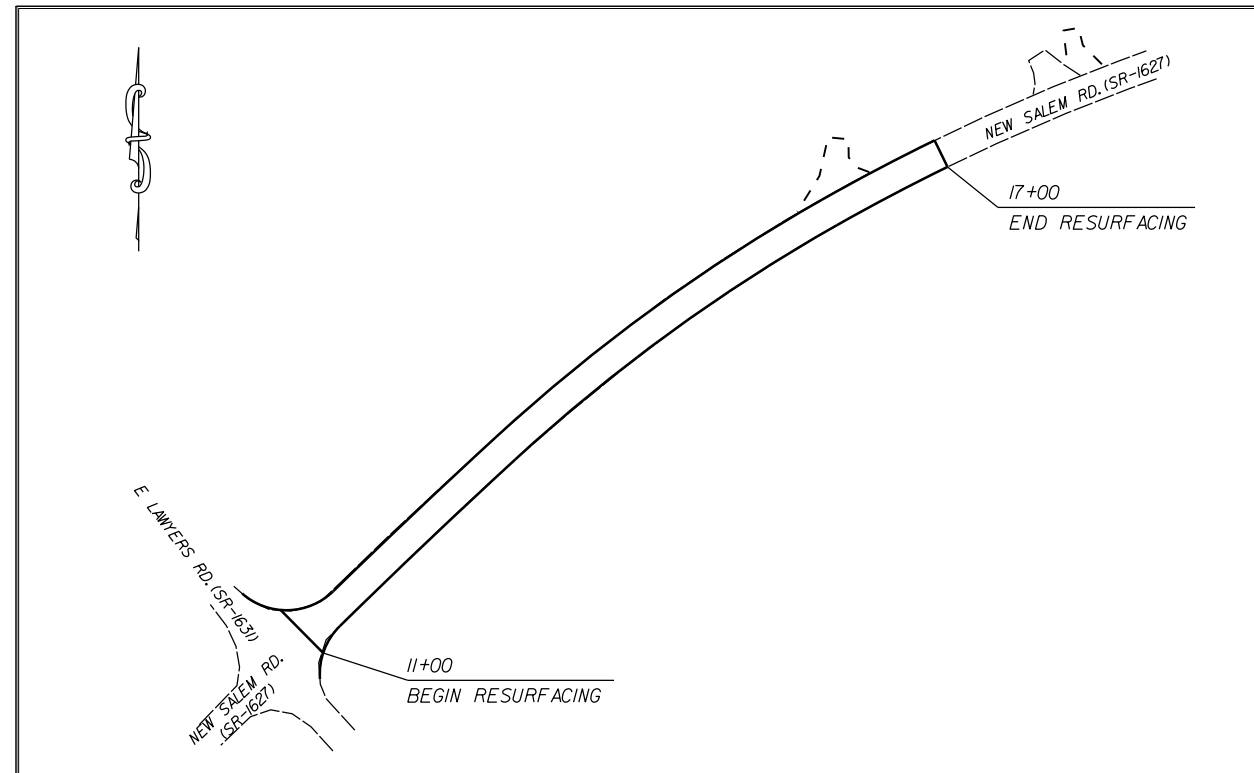


VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
UNION COUNTY

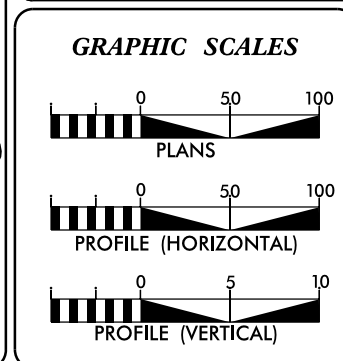
LOCATION: INTERSECTION OF LAWYERS Rd. (SR-1631) and NEW SALEM Rd. (SR-1627)

TYPE OF WORK: GRADING, PAVEMENT REMOVAL, PAVING, WATER LINE RELOCATION, DRAINAGE, & THERMOPLASTIC PAVEMENT MARKINGS.



CLEARING ON THIS PROJECT SHALL BE TO THE LIMITS ESTABLISHED BY METHOD III AS DESCRIBED IN THE NCDOT STANDARD DRAWINGS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	47460.3.1	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47460.1.1	HSIP-1627(017)	P.E.	
47460.2.1	HSIP-1627(017)	R/W	
47460.3.1	HSIP-1627(017)	CONST.	



DESIGN DATA

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

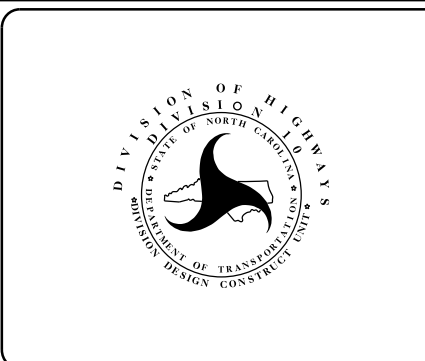
PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 47460.3.1	=	0.11	MILES
TOTAL LENGTH OF STATE PROJECT 47460.3.1	=	0.11	MILES

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: _____	DONALD HARWARD PROJECT ENGINEER
LETTING DATE: FEBRUARY 20, 2019	DONALD HARWARD PROJECT DESIGN ENGINEER



ROADWAY DESIGN ENGINEER

DocuSigned by:

 A92E75C0E8B43B
 SIGNATURE

SURVEY CONTROL SHEET

PROJECT NO.	SHEET NO.
47460.3.I	IA
F.A. PROJECT NO.	

DATUM DESCRIPTION

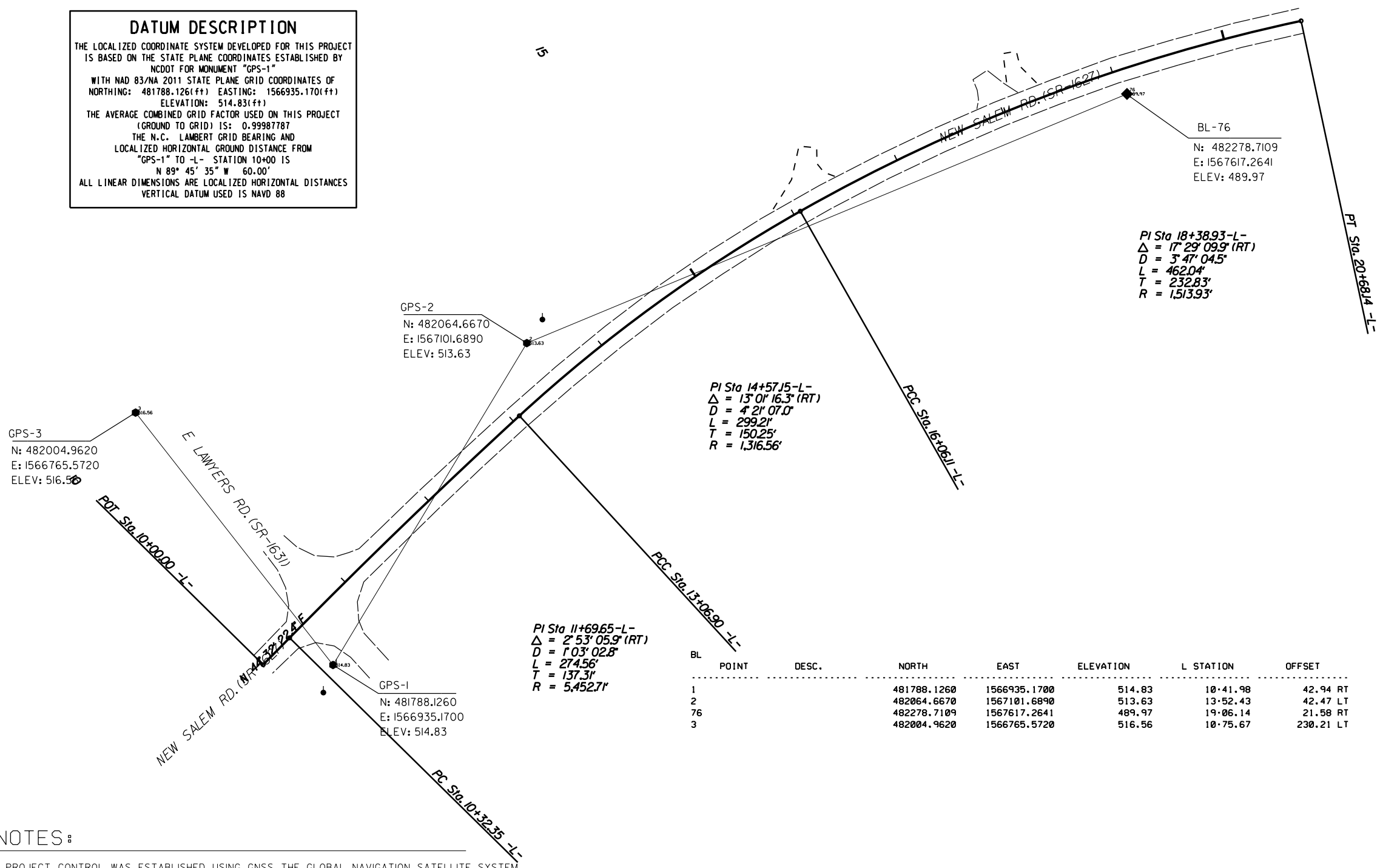
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-1"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 481788.126(ft) EASTING: 1566935.170(ft)
 ELEVATION: 514.83(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987787

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-1" TO -L- STATION 10+00 IS
 N 89° 45' 35" W 60.00'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88



BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
	1		481788.1260	1566935.1700	514.83	10+41.98	42.94 RT
	2		482064.6670	1567101.6890	513.63	13+52.43	42.47 LT
	76		482278.7109	1567617.2641	489.97	19+06.14	21.58 RT
	3		482004.9620	1566765.5720	516.56	10+75.67	230.21 LT

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

HILL CUT ON NEW SALEM RD. (SR-1626)
 AT LAWYERS RD. (SR-1631)

SCALE	1"=50'		REVISIONS
DATE	2-2019		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		

PROJECT NO.	SHEET NO.
47460.3.I	IB
F.A. PROJECT NO.	

RIGHT OF WAY, EASEMENT AND PROPOSED ALIGNMENT SHEET

I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination)

Witness my signature, registration number and seal this 13th day of FEB 2019

Barry D. Davis, Professional Land Surveyor
 DocuSigned by: Barry Davis PLS# L-4384
 0E2AAE4F48174DC...



L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	481788.3777	1566875.1679
PC	10+32.35	481811.4323	1566897.8549
PCC	13+06.90	482002.1964	1567095.2731
PCC	16+06.11	482177.9599	1567336.6157
PT	20+68.14	482341.4803	1567766.8325

ROW IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	11+01.46	33.70	481836.4466	1566970.3636
L	15+86.82	30.00	482142.4485	1567335.0893

PERMANENT DRAINAGE EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
L	15+44.00	-40.00	482179.8900	1567261.9841
L	15+44.00	-30.00	482171.4334	1567267.3213
L	15+55.00	46.00	482112.7913	1567316.8847
L	15+55.00	34.87	482122.2558	1567311.0214
L	15+65.00	-43.00	482193.8544	1567278.8134
L	15+65.00	-30.00	482182.7515	1567285.5755
L	15+77.00	43.00	482126.3975	1567333.4888
L	15+77.00	31.59	482136.1993	1567327.6409

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

HILL CUT ON NEW SALEM RD. (SR-1626)
AT LASWYERS RD. (SR-1631)

SCALE	1"=50'		REVISIONS	
DATE	2-2019			
DWG. BY	CEB			
DESIGN BY	JDH			
APPROVED	JDH			

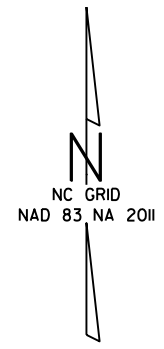
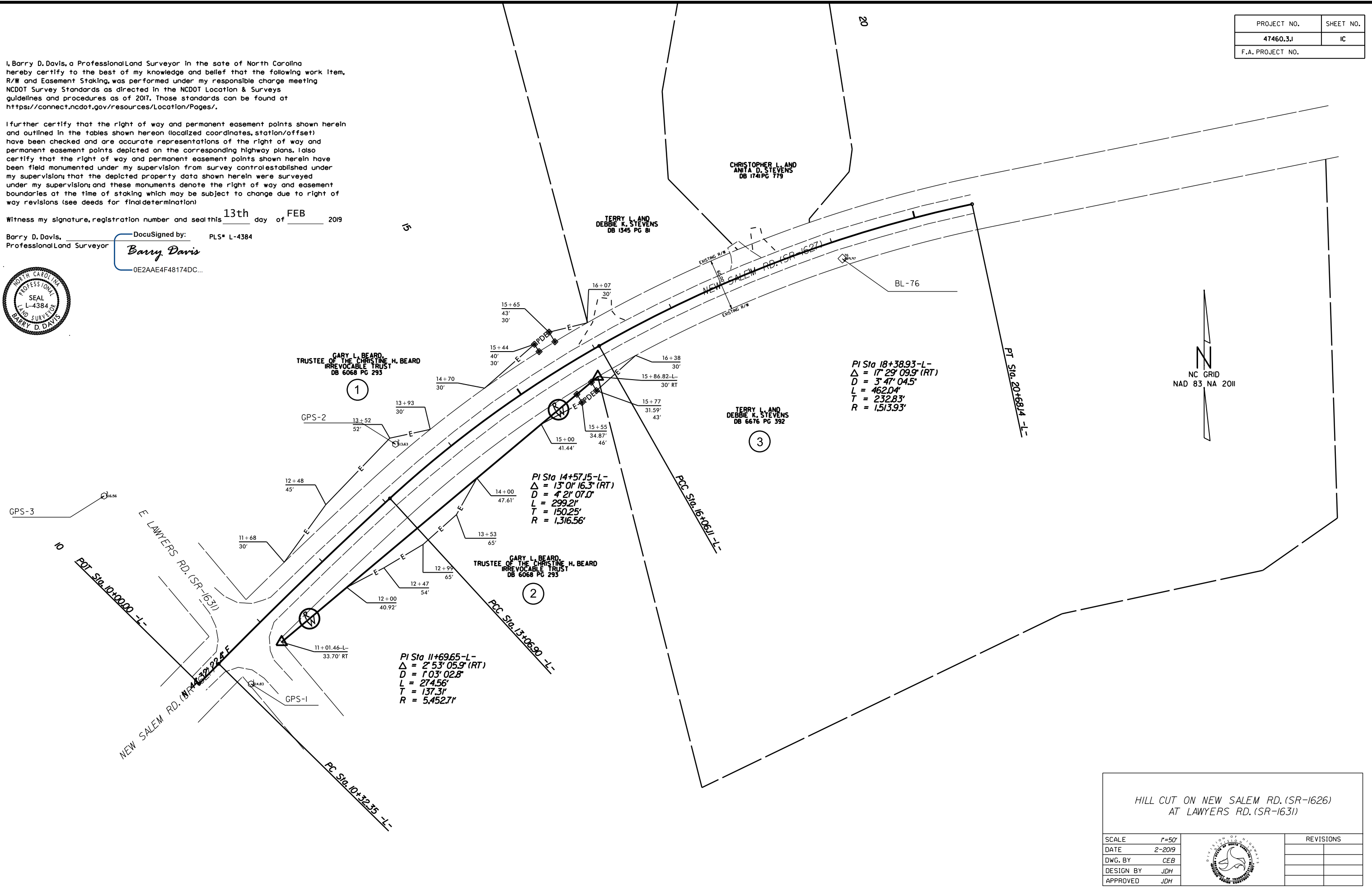
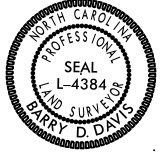
PROJECT NO.	SHEET NO.
47460.3.I	IC
F.A. PROJECT NO.	

I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

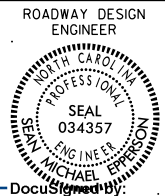
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination)

Witness my signature, registration number and seal this 13th day of FEB 2019

Barry D. Davis, Professional Land Surveyor
 DocuSigned by: Barry Davis
 PLS# L-4384
 0E2AAE4F48174DC...

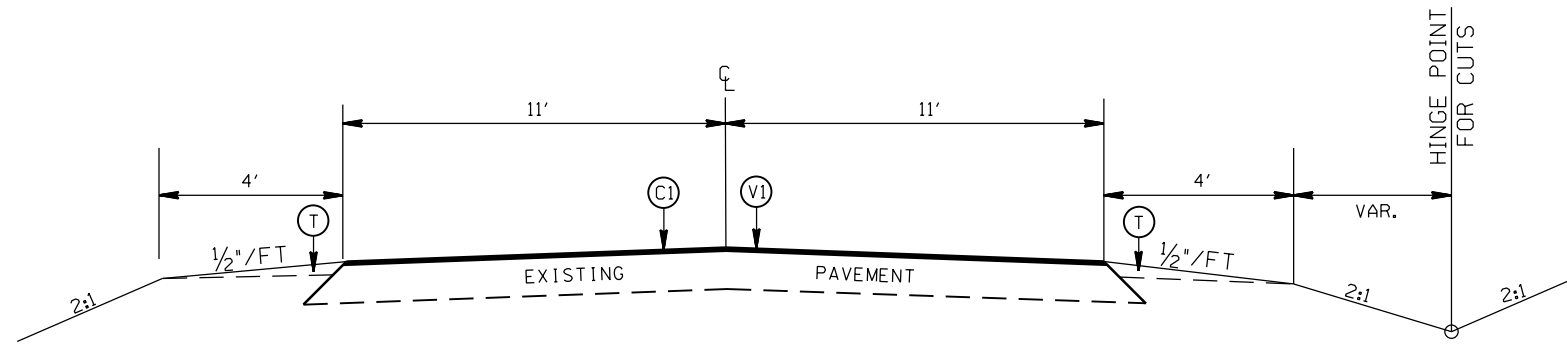


HILL CUT ON NEW SALEM RD. (SR-1626) AT LAWYERS RD. (SR-1631)			REVISIONS	
SCALE	1"=50'			
DATE	2-2019			
DWG. BY	CEB			
DESIGN BY	JDH			
APPROVED	JDH			

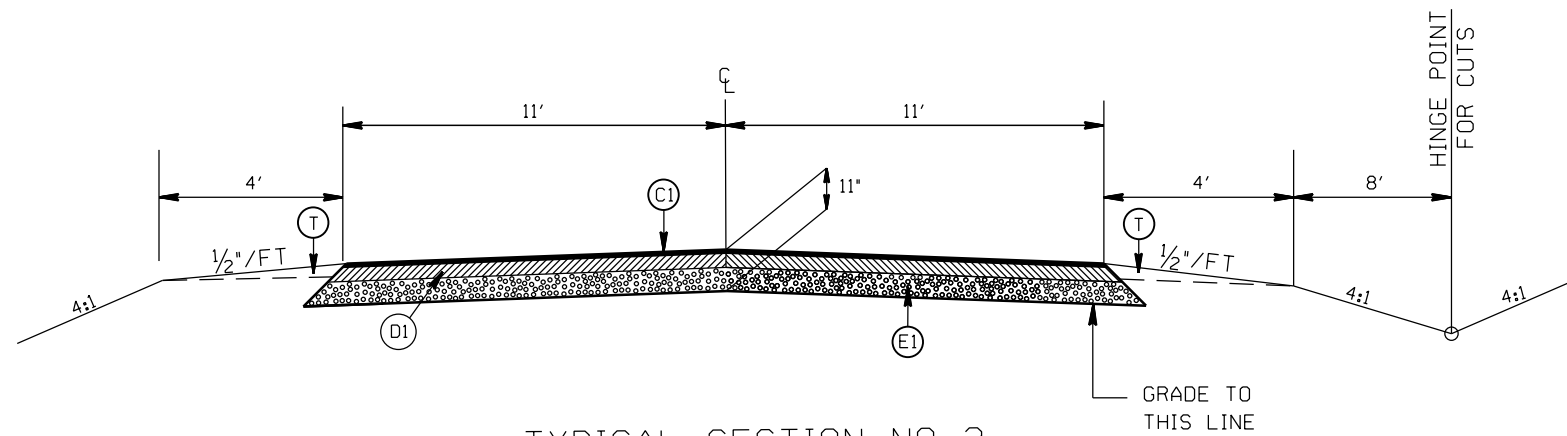


DocuSigned by:
Michael J. Davis

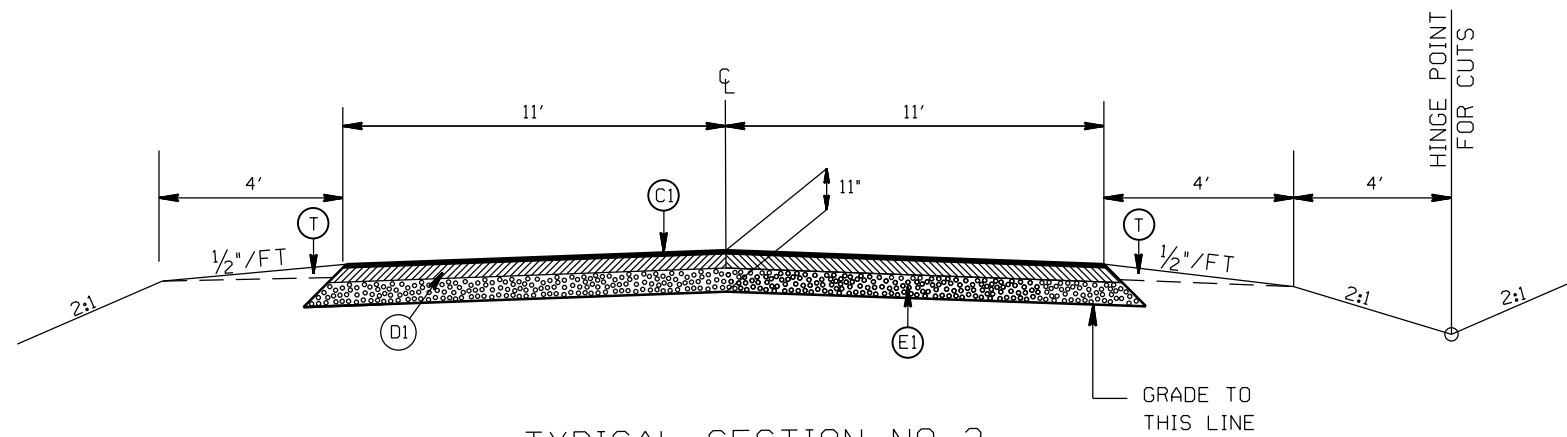
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TYPICAL SECTION NO. 1
STA. 11+00 TO 11+03 -L-



TYPICAL SECTION NO. 2
STA. 11+03 TO 14+00 -L-



TYPICAL SECTION NO. 3
STA. 14+00 TO 14+90 -L-

PAVEMENT SCHEDULE

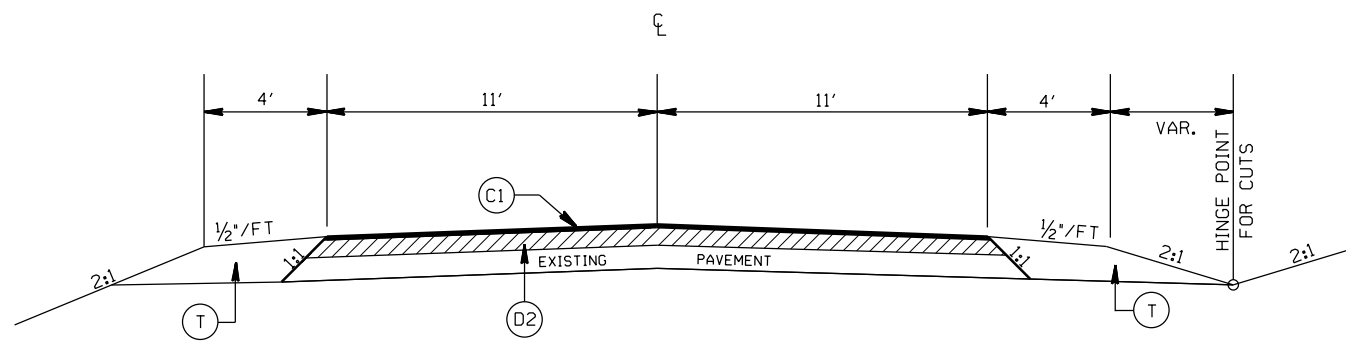
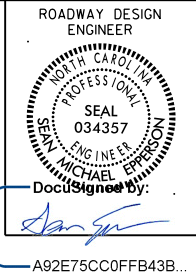
(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE
(E1)	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

HILL CUT ON NEW SALEM RD. (SR-1626)
AT LAWYERS RD. (SR-1631)

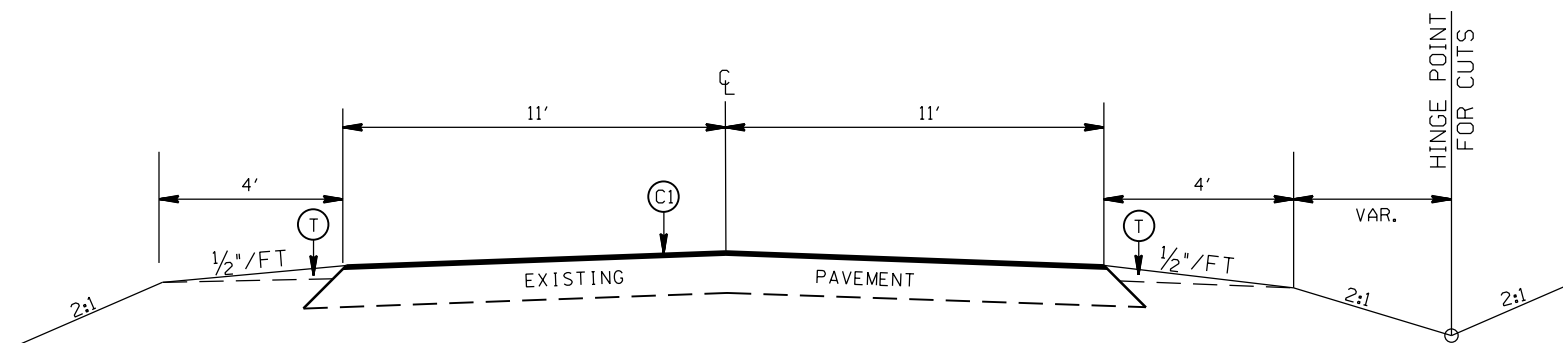
SCALE	1"=50'
DATE	4-2018
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	JDH



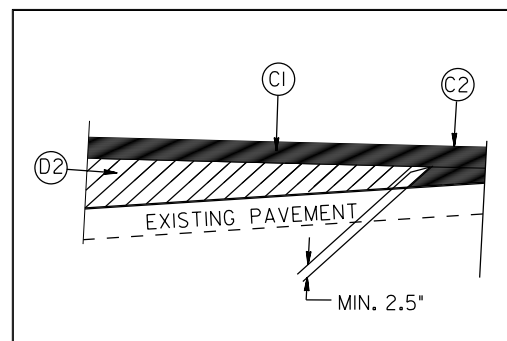
REVISIONS	



TYPICAL SECTION NO. 4
 STA. 14+90 TO 16+75 -L-



TYPICAL SECTION NO. 5
 STA. 16+75 TO 17+00 -L-



WEDGING 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. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE
(E1)	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

HILL CUT ON NEW SALEM RD. (SR-1626)
 AT LAWYERS RD. (SR-1631)

SCALE	1"=50'
DATE	4-2018
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	JDH



REVISIONS

ROADWAY DESIGN
ENGINEER

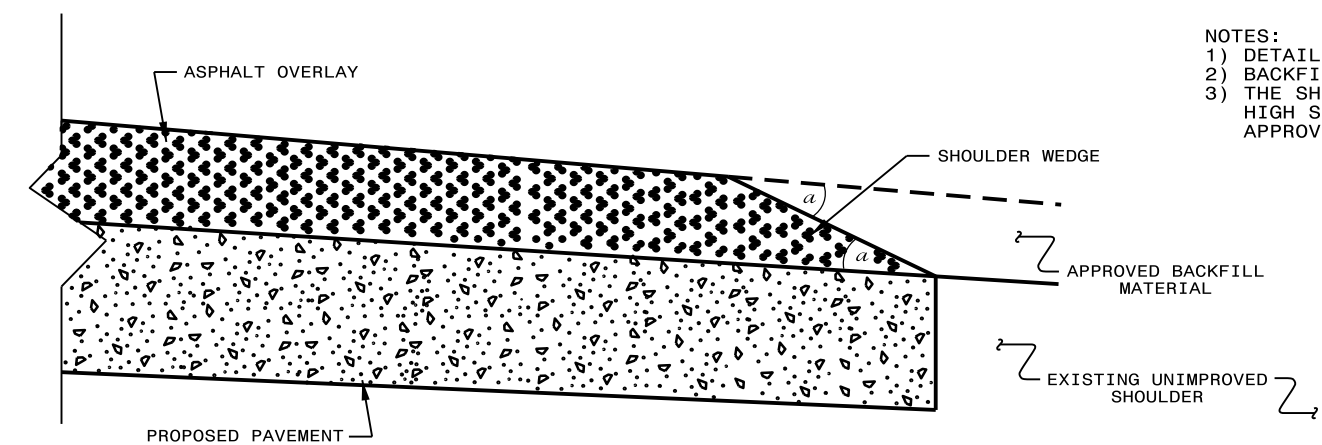


DocuSign by: *Michael J. Spill*

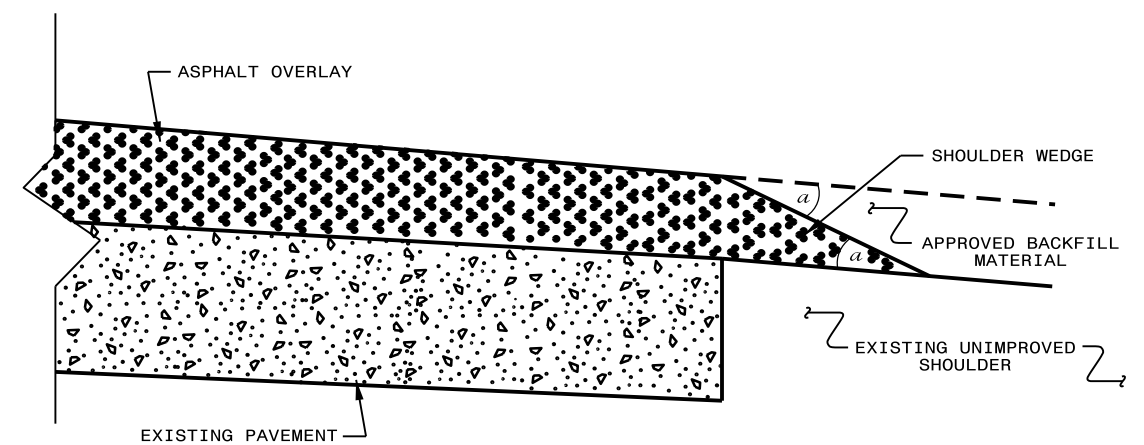
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PROJECT REFERENCE NO.	SHEET NO.

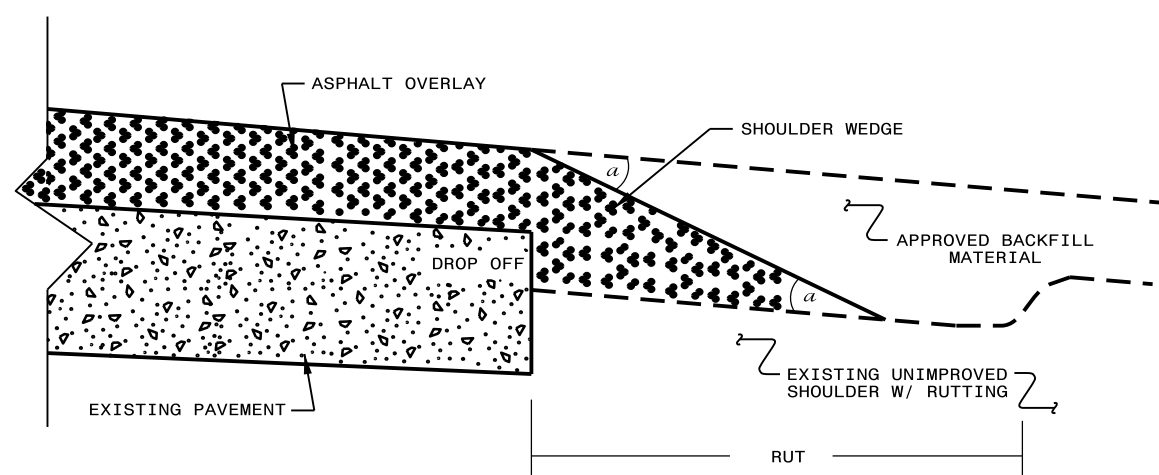
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



SHOULDER WEDGE DETAIL
(Projects w/ Widening or
with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
(Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
(Projects Adjacent to
Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950 FAX 919-250-4119	
SHOULDER WEDGE DETAILS	
ORIGINAL BY: T.SPILL	DATE: 7-19-11
MODIFIED BY:	DATE: 2/2/16
CHECKED BY:	DATE:
FILE SPEC: .: s:\usr\det1319\std\shou\shoustdet131.dgn	

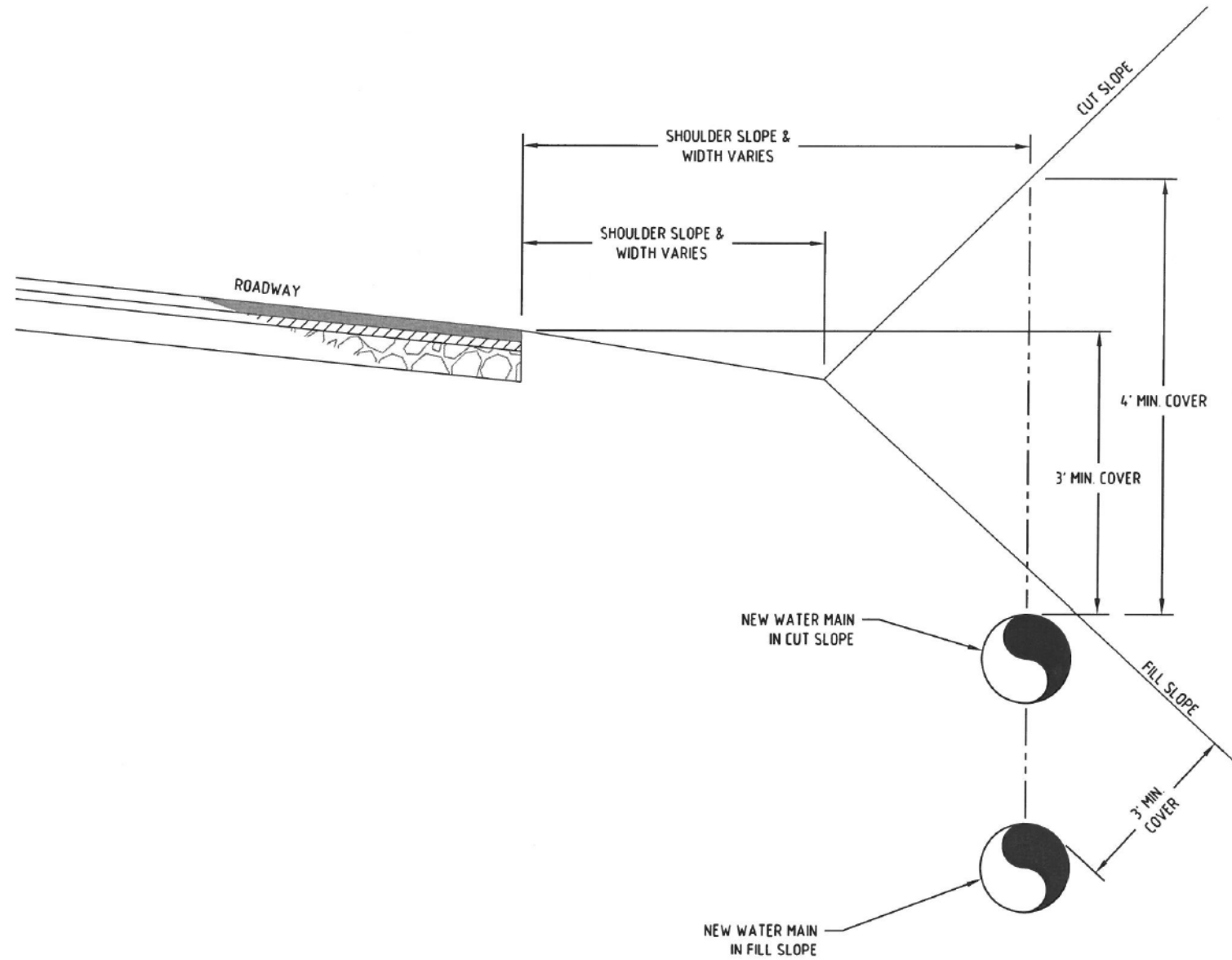
HILL CUT ON NEW SALEM RD. (SR-1626)
AT LAWYERS RD. (SR-1631)

SCALE	r=50'
DATE	4-2018
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	JDH



REVISIONS	

PROJECT NO.	SHEET NO.
47460.3J	2C
F.A. PROJECT NO.	HSIP-1627(017)
ROADWAY DESIGN ENGINEER	



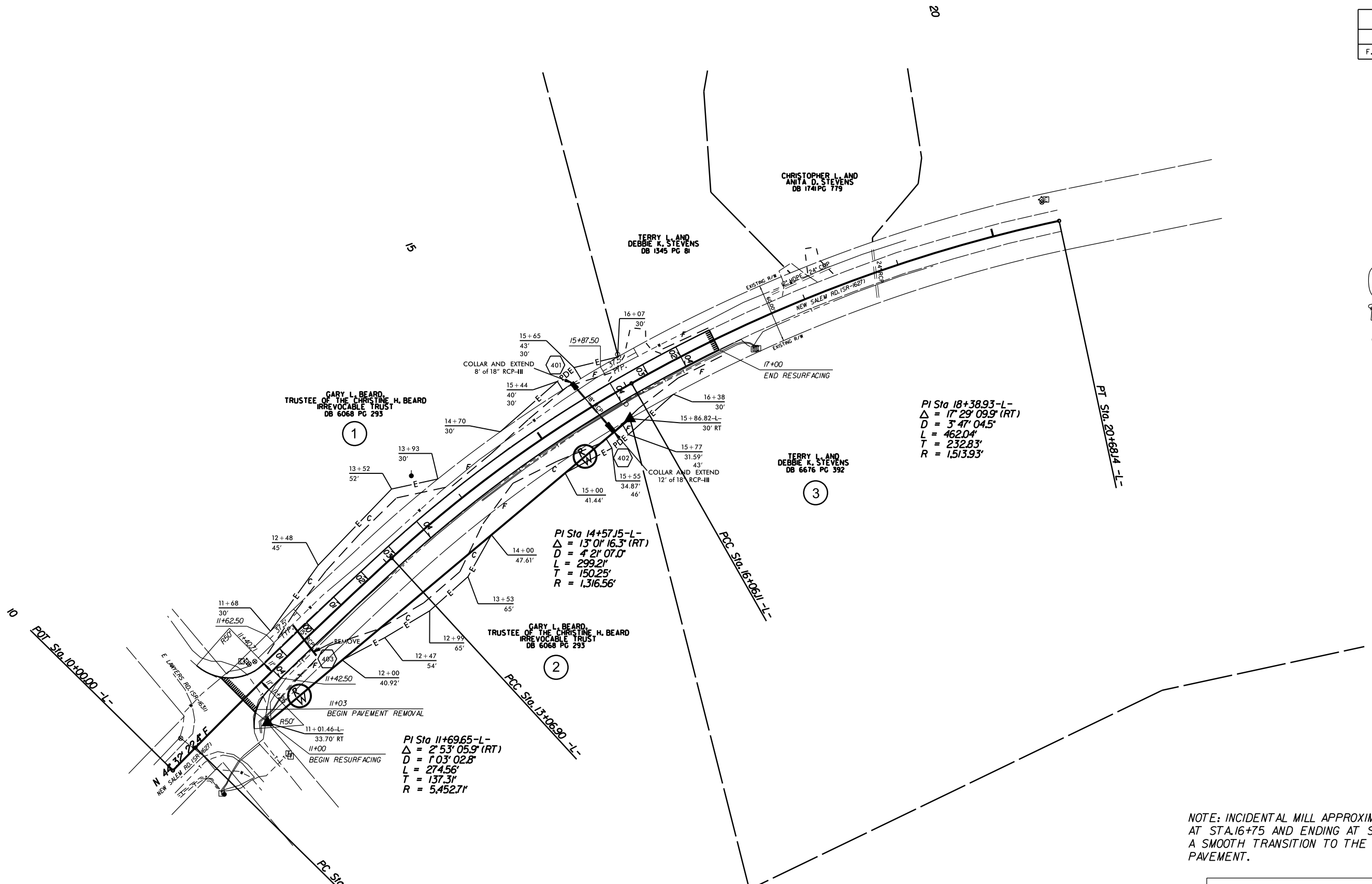
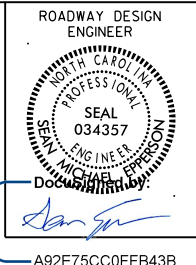
TYPICAL PIPE DEPTH IN CUT & FILL SLOPE CONDITIONS

HILL CUT ON NEW SALEM RD. (SR-1626)
AT LAWYERS RD. (SR-1631)

SCALE	1"=50'
DATE	4-2018
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	JDH



REVISIONS



PI Sta 18+38.93-L-
 $\Delta = 17^{\circ} 29' 09.9''$ (RT)
 $D = 3' 47' 04.5''$
 $L = 462.04'$
 $T = 232.83'$
 $R = 1,513.93'$

PI Sta 14+57.15-L-
 $\Delta = 13^{\circ} 01' 16.3''$ (RT)
 $D = 4' 21' 07.0''$
 $L = 299.21'$
 $T = 150.25'$
 $R = 1,316.56'$

PI Sta 11+69.65-L-
 $\Delta = 2^{\circ} 53' 05.9''$ (RT)
 $D = 1' 03' 02.8''$
 $L = 274.56'$
 $T = 137.31'$
 $R = 5,452.71'$

NOTE: INCIDENTAL MILL APPROXIMATELY 25' BEGINNING AT STA.16+75 AND ENDING AT STA.17+00 TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

HILL CUT ON NEW SALEM RD. (SR-1626)
 AT LAWYERS RD. (SR-1631)

SCALE	1"=50'		REVISIONS
DATE	4-2018		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	JDH		

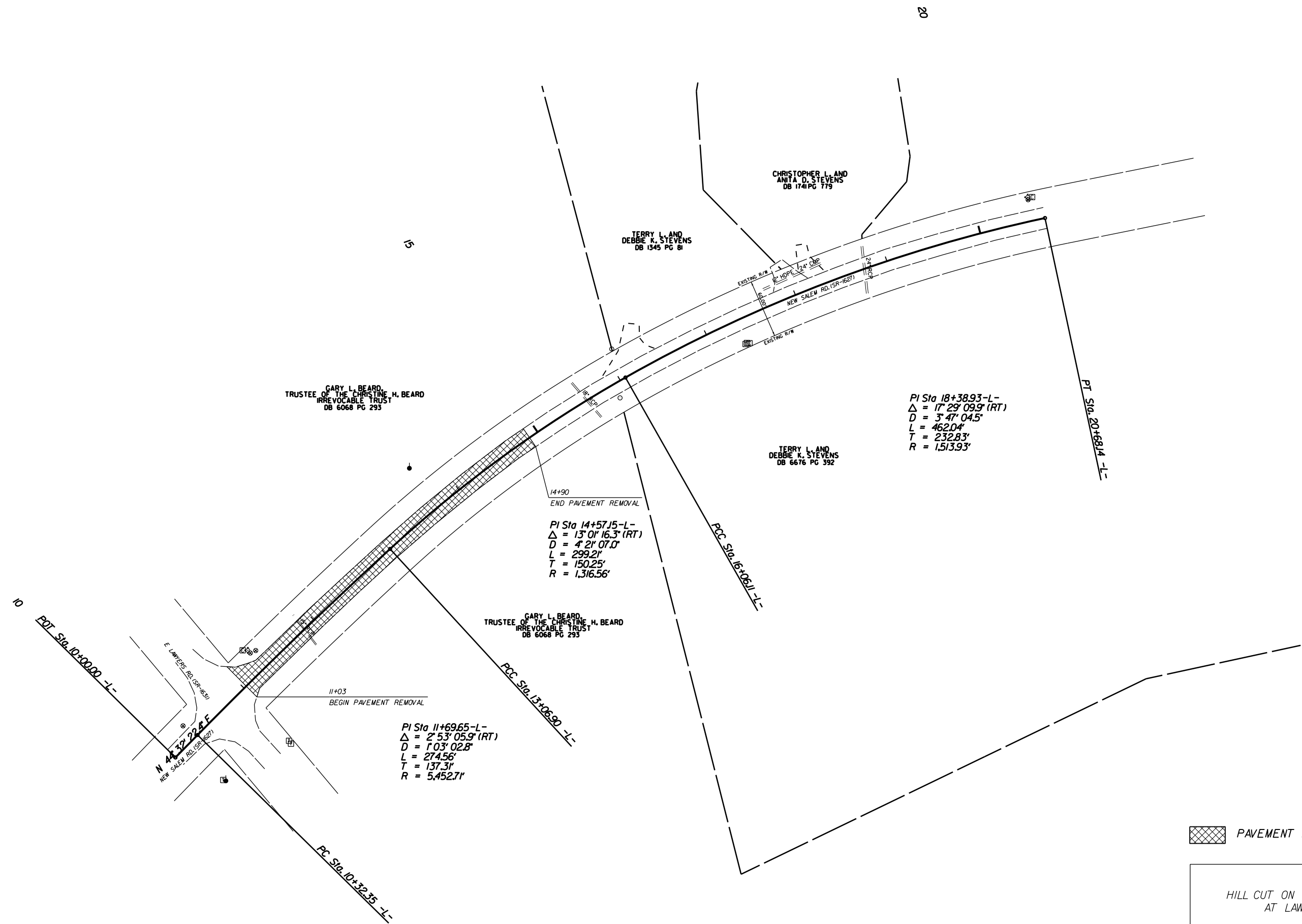
PROJECT NO.	SHEET NO.
47460.3J	5
F.A. PROJECT NO.	HSIP-1627(017)

ROADWAY DESIGN
ENGINEER



DocuSign by:
Michael Epps

A92E75CC0FFB43B...



PI Sta 18+38.93-L-
 $\Delta = 17' 29' 09.9''$ (RT)
 $D = 3' 47' 04.5''$
 $L = 462.04'$
 $T = 232.83'$
 $R = 1,513.93'$

PI Sta 14+57.15-L-
 $\Delta = 13' 01' 16.3''$ (RT)
 $D = 4' 21' 07.0''$
 $L = 299.21'$
 $T = 150.25'$
 $R = 1,316.56'$

PI Sta 11+69.65-L-
 $\Delta = 2' 53' 05.9''$ (RT)
 $D = 1' 03' 02.8''$
 $L = 274.56'$
 $T = 137.31'$
 $R = 5,452.71'$

PAVEMENT REMOVAL

HILL CUT ON NEW SALEM RD. (SR-1626)
AT LAWYERS RD. (SR-1631)

SCALE	1"=50'		REVISIONS
DATE	4-2018		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	JDH		

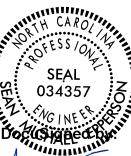
5/14/99

PROJECT REFERENCE NO. SHEET NO.

47460.31

6

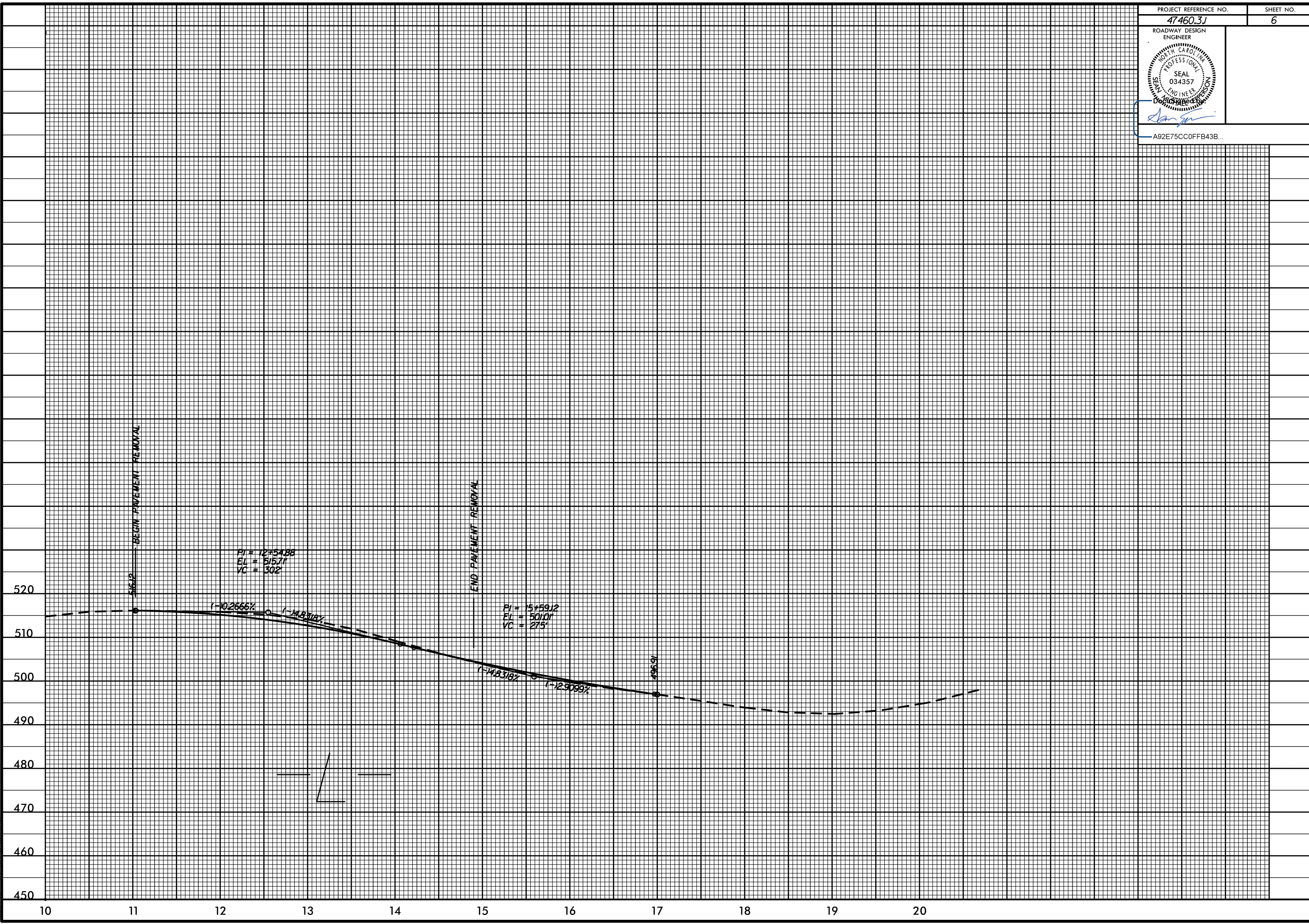
ROADWAY DESIGN ENGINEER



Douglas H. Hester

A92E75CC0FFB43B...

27-AUG-2008 15:14
S:\DBCC\RDY\Union\New_Salem_and_Lowyers\p1\new_salem_lowyers_un1.p1.dgn
DWGNO: 372020



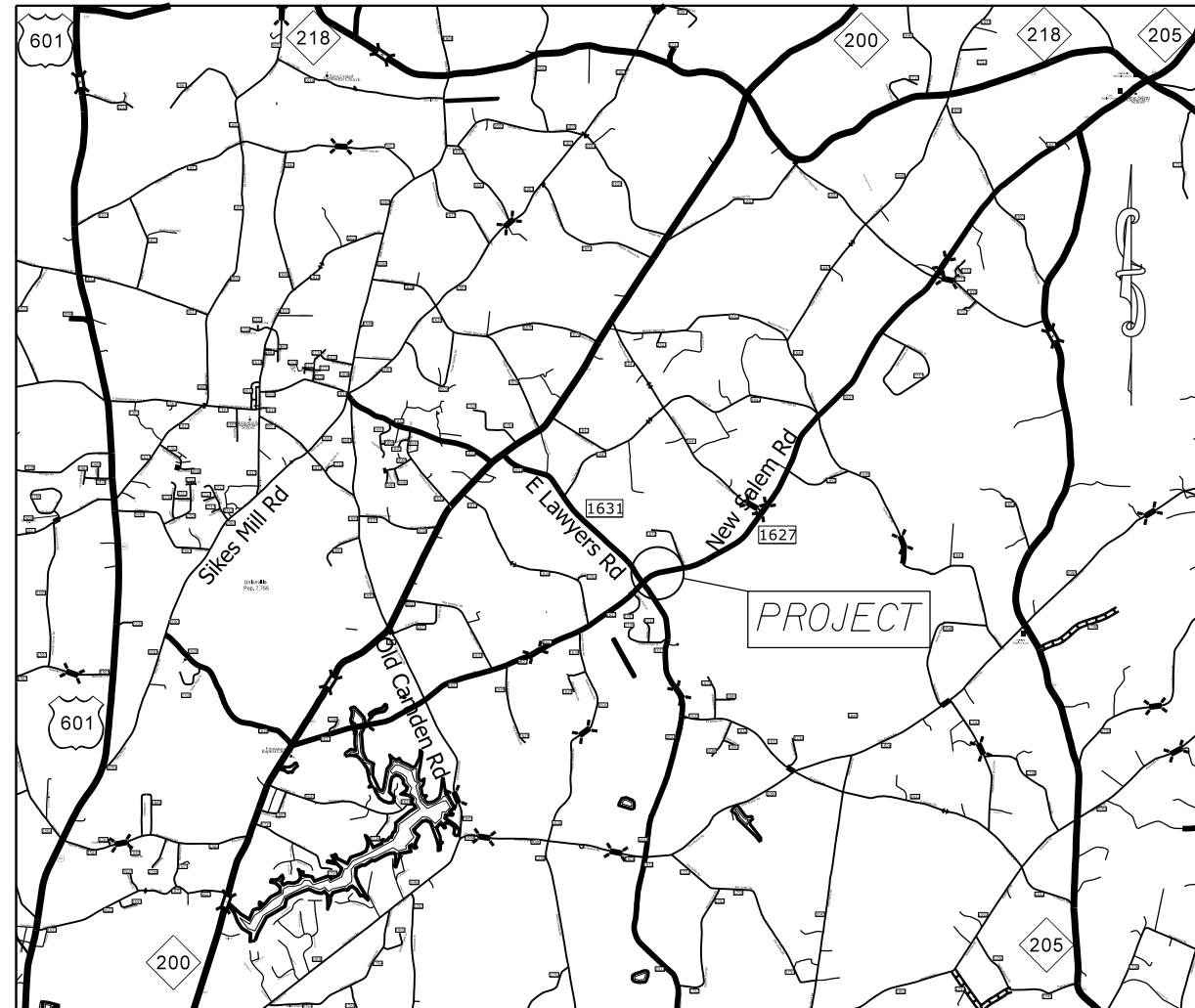
TIP PROJECT: SS-4910CX

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SS-4910CX	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

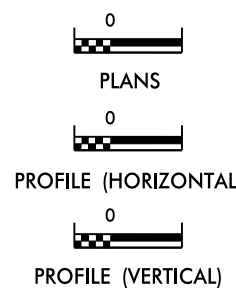
Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	--- TD ---
1630.05	Temporary Diversion	--- TD ---
1605.01	Temporary Silt Fence	--- III III III ---
1606.01	Special Sediment Control Fence	--- X X X X X ---
1622.01	Temporary Berms and Slope Drains	--- T ---
1630.02	Silt Basin Type B	--- [Symbol]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



VICINITY MAP NOT TO SCALE

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 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

Designed by:
DONALD HARWARD 3028
 NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

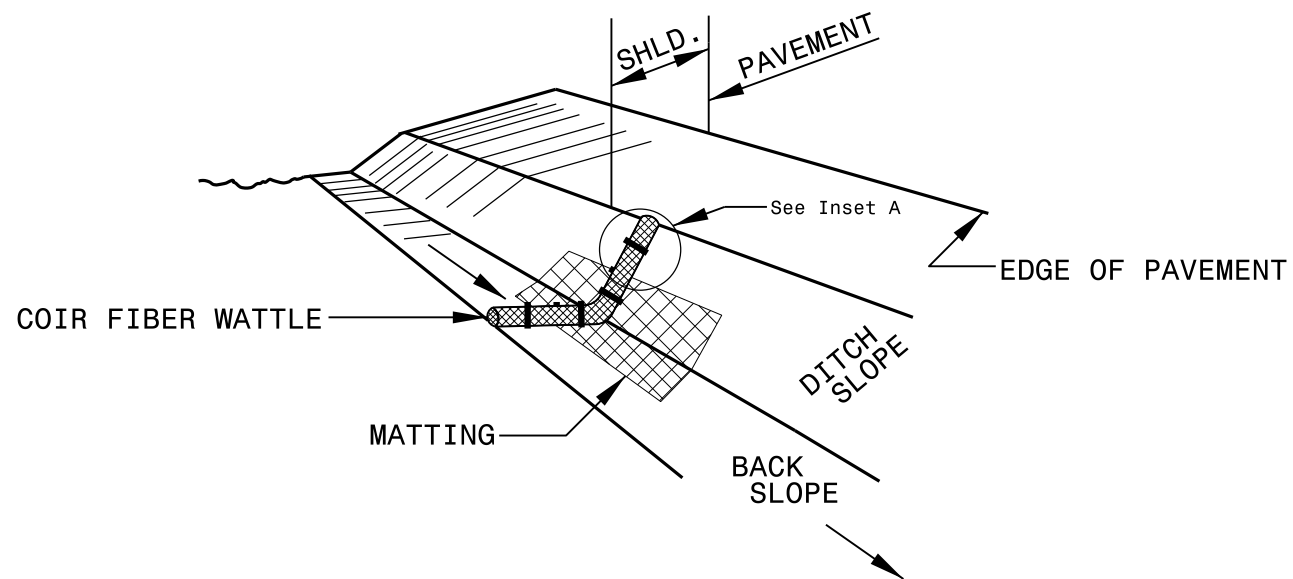
The following roadway english standards as appear in "Roadway Standard Drawings"-- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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 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	1633.02 Temporary Rock Silt Check Type C
1630.02 Silt Basin Type 3	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.06 Special Stilling Basin	1640.01 Coir Fiber Jaffle
1631.01 Matting Installation	1645.01 Temporary Stream Crossing

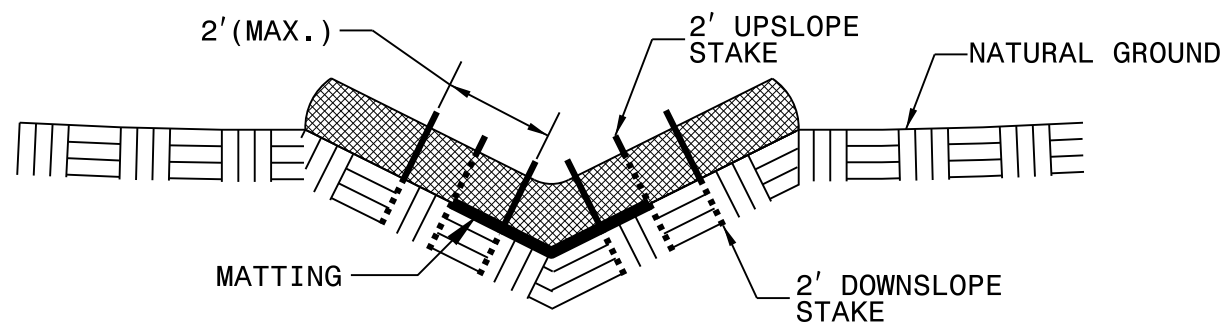
COIR FIBER WATTLE DETAIL

PROJECT NO.	SHEET NO.
47460.3J	EC-2
F.A. PROJECT NO.	HSIP-1004(062)

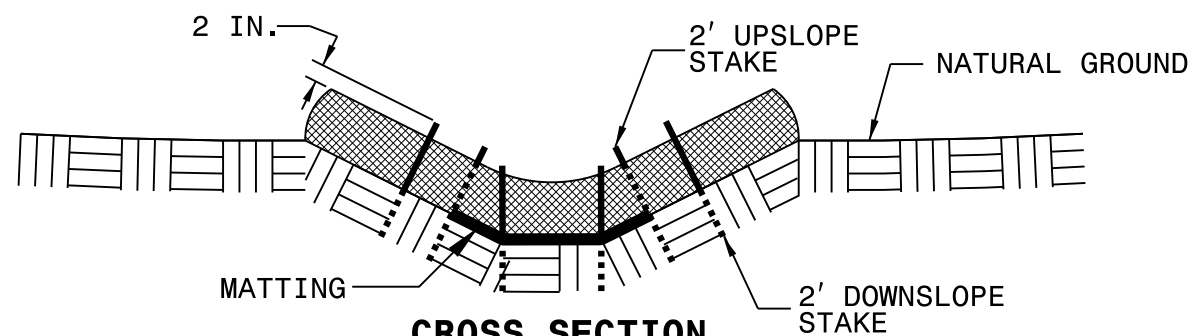
ROADWAY DESIGN
ENGINEER



ISOMETRIC VIEW



**CROSS SECTION
VEE DITCH**



**CROSS SECTION
TRAPEZOIDAL DITCH**

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

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

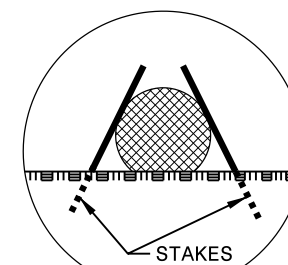
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

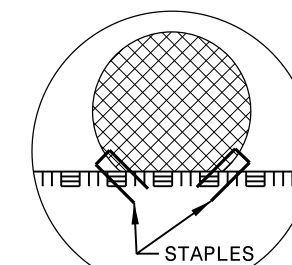
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

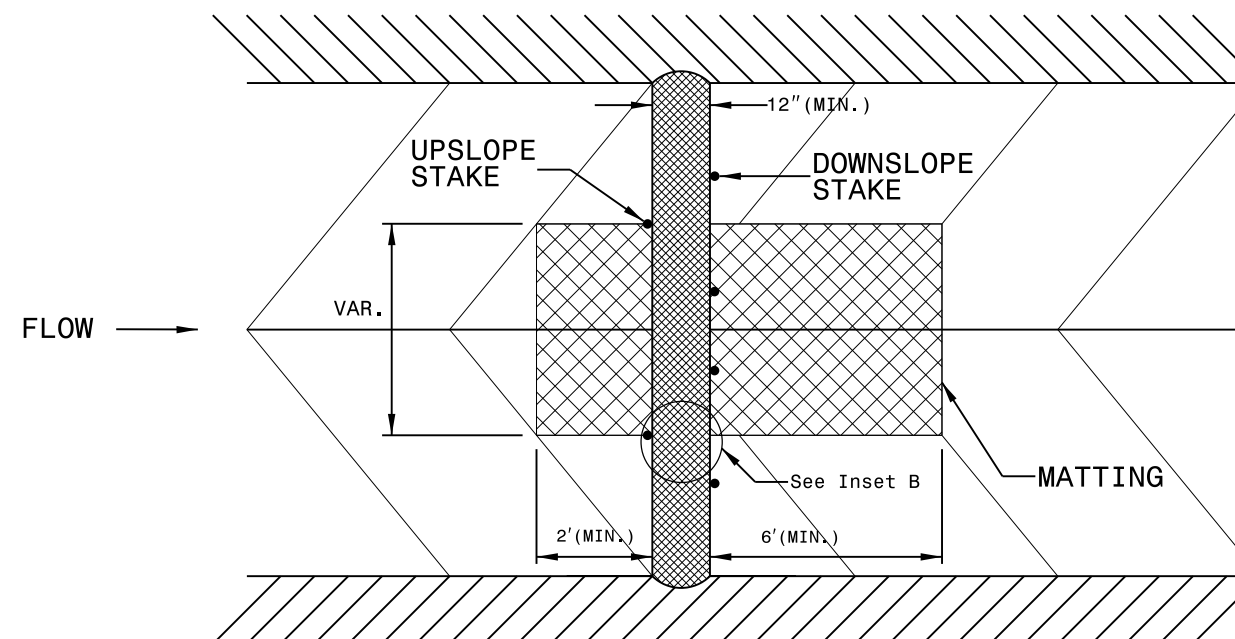
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



TOP VIEW

HILL CUT ON NEW SALEM RD. (SR-1626)
AT LAWYERS RD. (SR-1631)

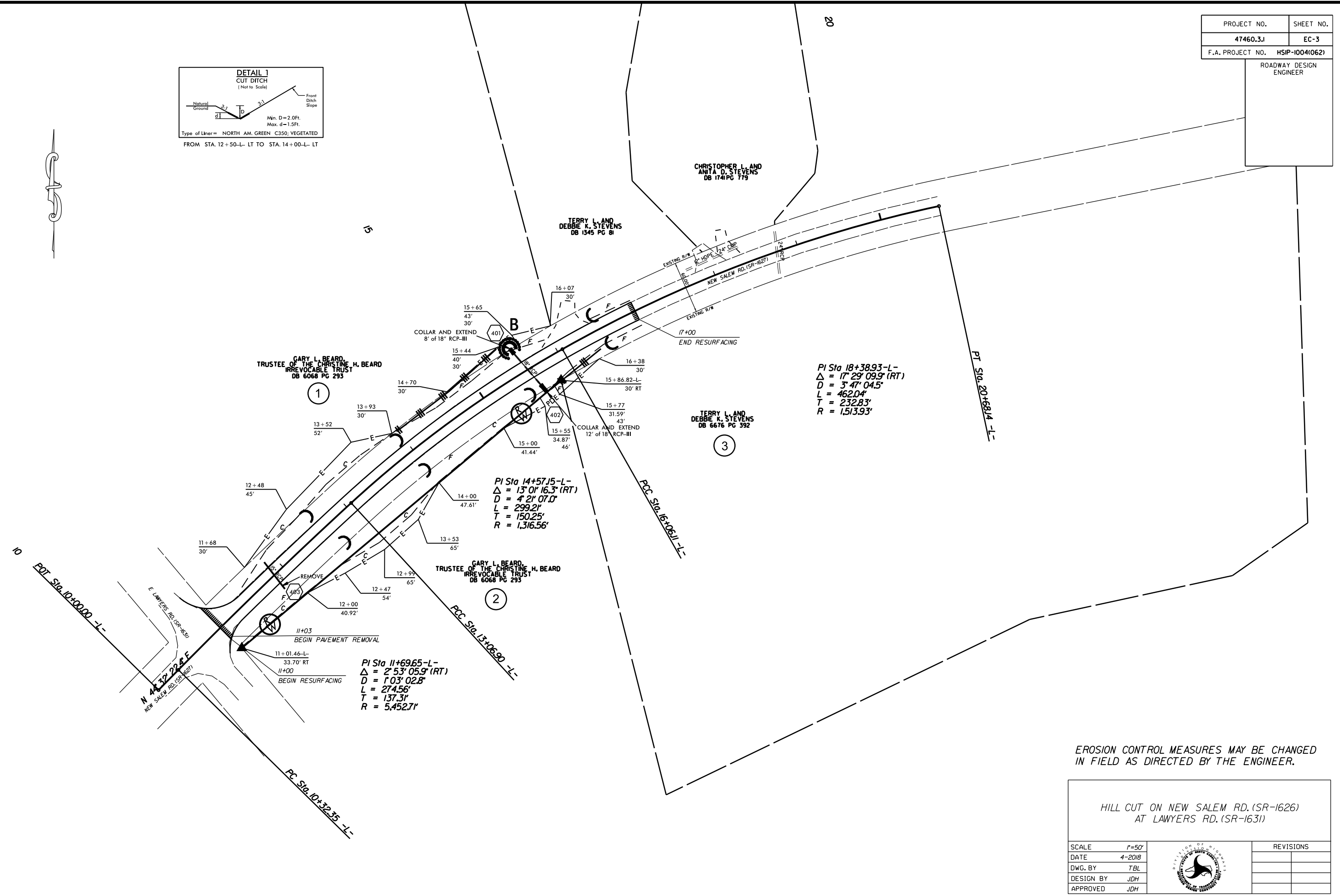
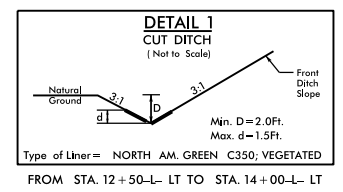
SCALE	1"=50'
DATE	1-2019
DWG. BY	TBL
DESIGN BY	JDH
APPROVED	JDH



REVISIONS	

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

ROADWAY DESIGN ENGINEER



PI Sta 18+38.93-L-
 $\Delta = 17^{\circ}29'09.9''$ (RT)
 $D = 3'47'04.5''$
 $L = 462.04'$
 $T = 232.83'$
 $R = 1,513.93'$

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

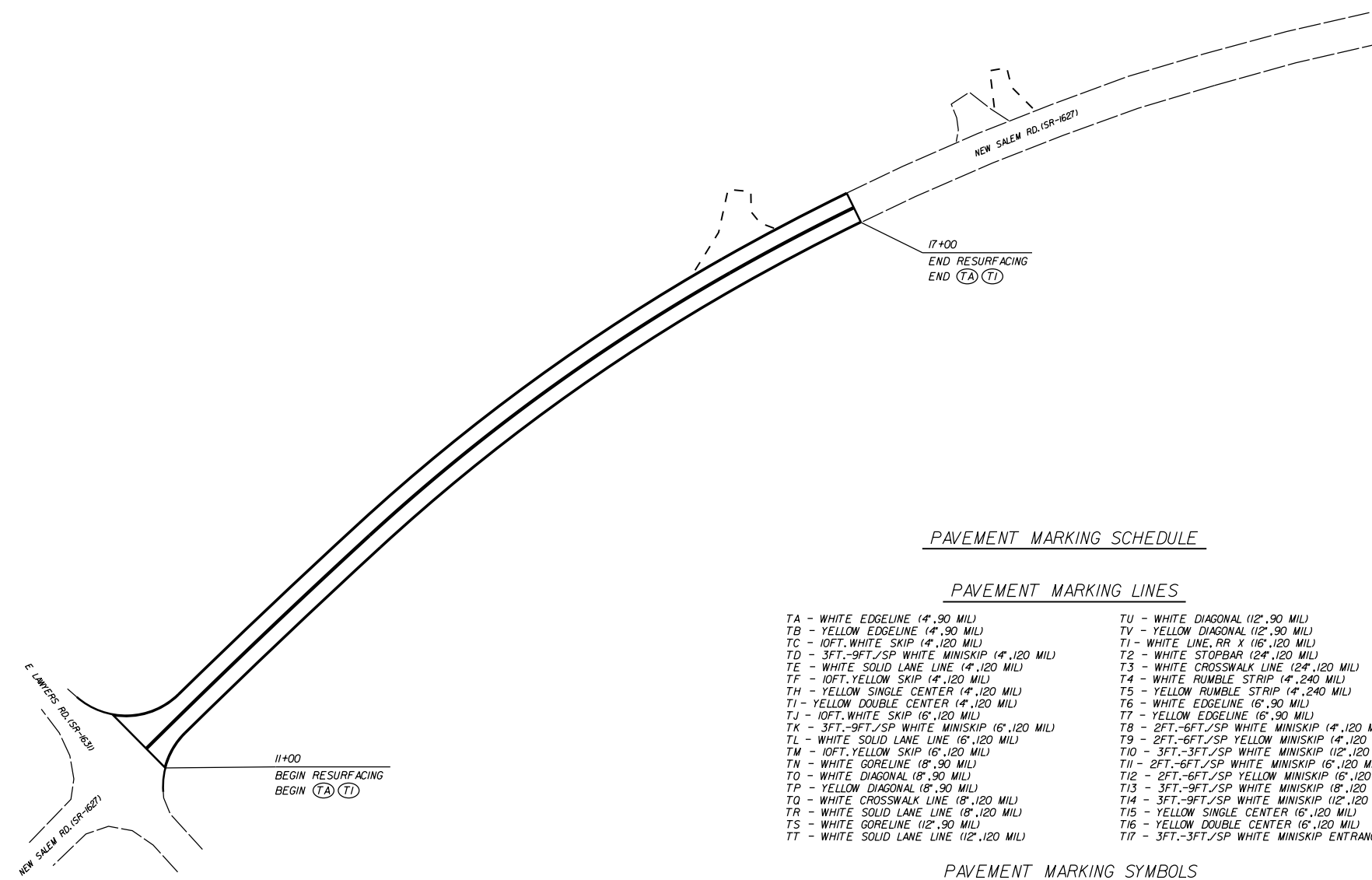
HILL CUT ON NEW SALEM RD. (SR-1626) AT LAWYERS RD. (SR-1631)

SCALE	1"=50'		REVISIONS
DATE	4-2018		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	JDH		

ROADWAY DESIGN ENGINEER

Documented by: *San Jm*

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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',.120 MIL) | TI - WHITE LINE, RR X (16',.120 MIL) |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4',.120 MIL) | T2 - WHITE STOPBAR (24',.120 MIL) |
| TE - WHITE SOLID LANE LINE (4',.120 MIL) | T3 - WHITE CROSSWALK LINE (24',.120 MIL) |
| TF - 10FT. YELLOW SKIP (4',.120 MIL) | T4 - WHITE RUMBLE STRIP (4',.240 MIL) |
| TH - YELLOW SINGLE CENTER (4',.120 MIL) | T5 - YELLOW RUMBLE STRIP (4',.240 MIL) |
| TI - YELLOW DOUBLE CENTER (4',.120 MIL) | T6 - WHITE EDGELINE (16',.90 MIL) |
| TJ - 10FT. WHITE SKIP (6',.120 MIL) | T7 - YELLOW EDGELINE (16',.90 MIL) |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6',.120 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4',.120 MIL) |
| TL - WHITE SOLID LANE LINE (6',.120 MIL) | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4',.120 MIL) |
| TM - 10FT. YELLOW SKIP (6',.120 MIL) | T10 - 3FT.-3FT./SP WHITE MINISKIP (12',.120 MIL) |
| TN - WHITE GORELINE (8',.90 MIL) | T11 - 2FT.-6FT./SP WHITE MINISKIP (6',.120 MIL) |
| TO - WHITE DIAGONAL (8',.90 MIL) | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6',.120 MIL) |
| TP - YELLOW DIAGONAL (8',.90 MIL) | T13 - 3FT.-9FT./SP WHITE MINISKIP (8',.120 MIL) |
| TQ - WHITE CROSSWALK LINE (8',.120 MIL) | T14 - 3FT.-9FT./SP WHITE MINISKIP (12',.120 MIL) |
| TR - WHITE SOLID LANE LINE (8',.120 MIL) | T15 - YELLOW SINGLE CENTER (6',.120 MIL) |
| TS - WHITE GORELINE (12',.90 MIL) | T16 - YELLOW DOUBLE CENTER (6',.120 MIL) |
| TT - WHITE SOLID LANE LINE (12',.120 MIL) | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8',.120 MIL) |

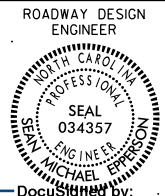
PAVEMENT MARKING SYMBOLS

- | | |
|--|--|
| 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/RIGHT/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. (120 MIL) | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UJ - BICYCLE SYMBOL (90 MIL) | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW) |
| UK - BICYCLE STRAIGHT ARROW (90 MIL) | MB - PERMANENT RAISED MARKER (CRYSTAL & RED) |
| UL - BICYCLE CHAR. (120 MIL) | MC - PERMANENT RAISED MARKER (YELLOW & RED) |
| UM - 12" YIELD LINE TRIANGLE (90 MIL) | MD - PERMANENT RAISED MARKER (YELLOW) |
| UN - 24" YIELD LINE TRIANGLE (90 MIL) | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW) |
| UO - BICYCLE LEFT ARROW (90 MIL) | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED) |
| UP - MERGE ARROW (90 MIL) | MG - SNOWPLOWABLE MARKER (YELLOW & RED) |
| UQ - RAMP ARROW SYMBOL (90 MIL) | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL) |
| UR - SHARROW (90 MIL) | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL) |
| US - BICYCLE LOOP DETECTOR (90 MIL) | |
| UT - U-TURN ARROW (90 MIL) | |

HILL CUT ON NEW SALEM RD. (SR-1626)
AT LAWYERS RD. (SR-1631)

SCALE	1"=50'		REVISIONS
DATE	4-2018		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	JDH		

PROJECT NO.	SHEET NO.
47460.3.I	TCP-1
F.A. PROJECT NO.	HSP-1627(017)

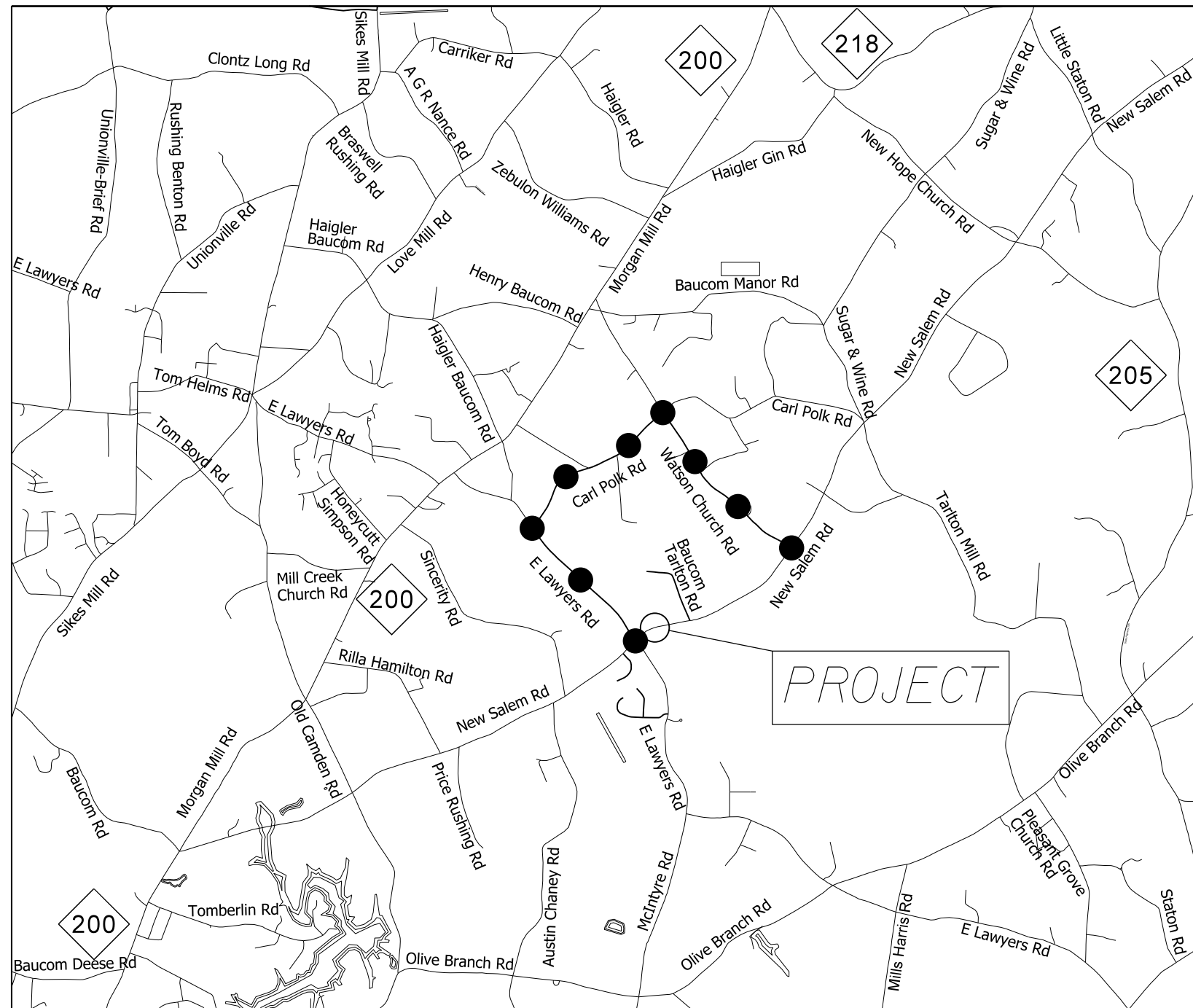


DocuSigned by:
Michael Epps

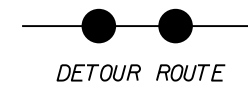
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OFFSITE DETOUR

OFFSITE DETOUR TO BE INSTALLED AND MAINTAINED BY NCDOT.
THE CONTRACTOR IS RESPONSIBLE FOR THE BARRACADES ON THE PROJECT. SEE SHEET TCP-2



NOTE: CONTRACTOR SHALL CONTACT
SALINA BLALOCK AT 704-244-8270
TWO WEEKS PRIOR TO ROAD CLOSURE.



HILL CUT ON NEW SALEM RD.(SR-1626)
AT LAWYERS RD.(SR-1631)

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



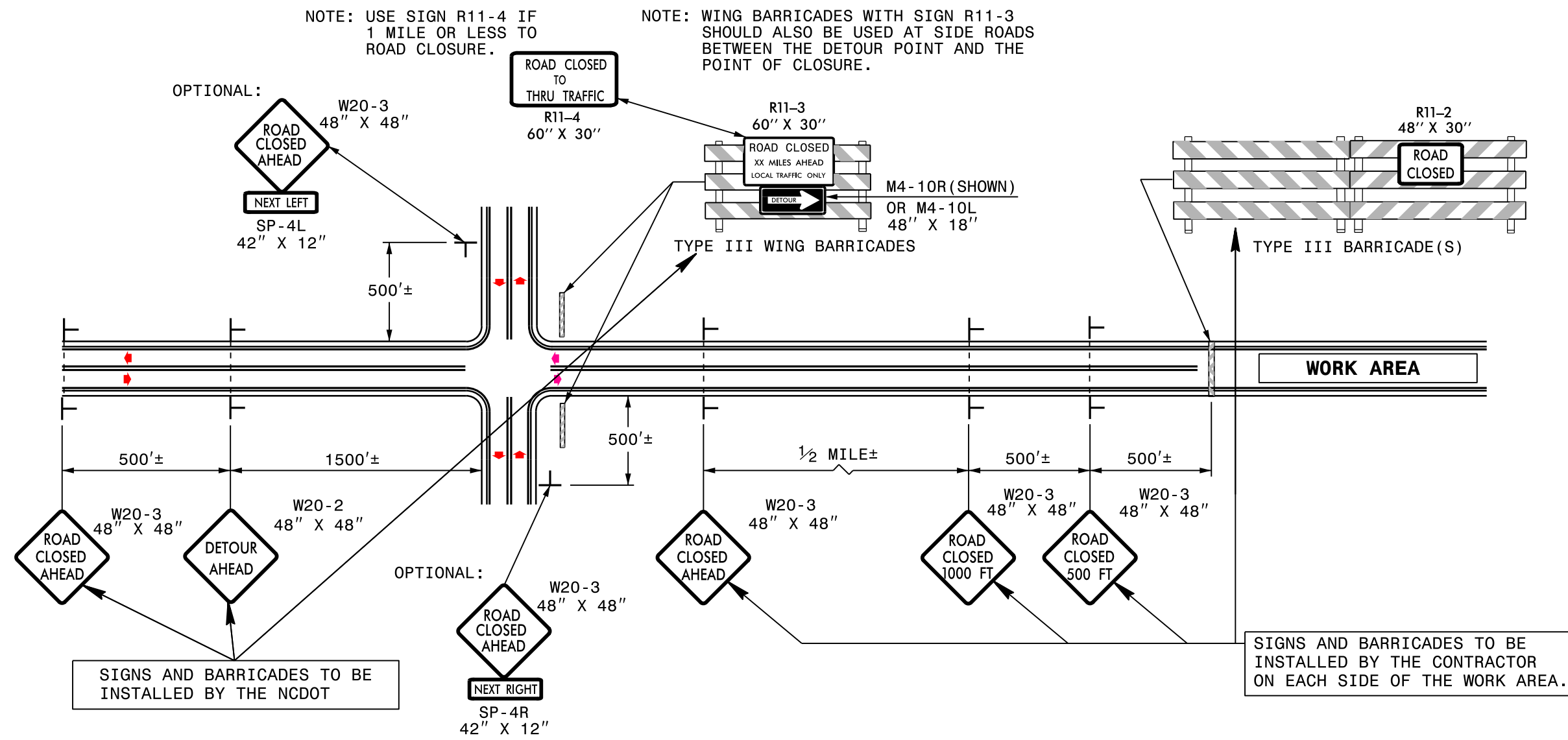
REVISIONS

ROADWAY DESIGN ENGINEER



DocuSign By: [Signature]

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GENERAL NOTES

- 1-IF NECESSARY USE THIS STD. FOR TWO-LANE, TWO-WAY, AND MULTILANE DIVIDED AND UNDIVIDED ROADWAYS.
- 2-INSTALLATION OF DETOUR ROUTING PANELS, TEMPORARY ROUTE MARKERS, DESTINATION SIGNS, AND ANY NECESSARY MODIFICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS WILL BE MADE BY NCDOT FORCES UNLESS OTHERWISE DESIGNATED IN THE PLANS. PROVIDE A MINIMUM 21 CALENDAR DAY NOTICE TO STATE FORCES BEFORE A ROADWAY IS CLOSED TO TRAFFIC SUCH THAT THE NECESSARY PROVISIONS CAN BE MADE TO INSTALL DETOUR ROUTE SIGNS, INFORM LOCAL EMERGENCY AND LAW ENFORCEMENT PERSONNEL, SCHOOLS, OR ANY OTHER PARTIES AFFECTED BY THE ROAD CLOSURE.
- 3-INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
- 4-USE ADDITIONAL TYPE III BARRICADES IN STAGGERED LOCATIONS SUPPLEMENTED WITH SIGN R11-4 "ROAD CLOSED TO THRU TRAFFIC" IN THE EVENT THAT TRAFFIC MUST BE MAINTAINED BEYOND THE DETOUR POINT.
- 5-DO NOT DISPLAY FRACTIONS OR DECIMALS ON SIGN R11-3 "ROAD CLOSED XX MILES AHEAD".
- 6-POSITION WING BARRICADES ON THE SHOULDERS AND SLOPE THE STRIPES DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING.
- 7-USE PORTABLE SIGNS IF ROAD CLOSURE IS TO BE IMPLEMENTED FOR LESS THAN ONE DAY OR FOR EMERGENCIES.

LEGEND

┆ STATIONARY SIGN

◄ DIRECTION OF TRAFFIC FLOW

HILL CUT ON NEW SALEM RD.(SR-1626)
AT LAWYERS RD.(SR-1631)

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

PROJECT NO.	SHEET NO.
47460.3J	UC-1
F.A. PROJECT NO.	HSIP-162(1017)
ROADWAY DESIGN ENGINEER	

GENERAL NOTES:

CONTACT MICHAEL CALDWELL OF UNION COUNTY PUBLIC WORKS 72 HOURS PRIOR TO BEGINNING WORK ON THIS PROPOSED WATER MAIN AT (704) 296-4293.

WATER VALVES ARE TO BE OPERATED BY UNION COUNTY PUBLIC WORKS STAFF.

SEE SHEETS 2B FOR SPECIFIC UNION COUNTY PUBLIC WORKS WATER MAIN DETAILS.

ENTIRE LENGTH OF RELOCATED WATER MAIN MUST BE RESTRAINED JOINT.

CONTRACTOR IS TO USE TEMP. PLUGS AND BLOW OFFS FOR TESTING & DISINFECTION.

CONTRACTOR IS TO PROVIDE TWO TIE-IN CREWS WORKING CONCURRENTLY, ONE AT EACH END, TO MINIMIZE SHUT-DOWN TIME.

SHUT-DOWN WILL BE LIMITED TO A MAXIMUM OF FOUR HOURS. PROVIDE 96 HOURS ADVANCE NOTICE TO UNION COUNTY PRIOR TO SHUT-DOWN OF WATER MAIN.

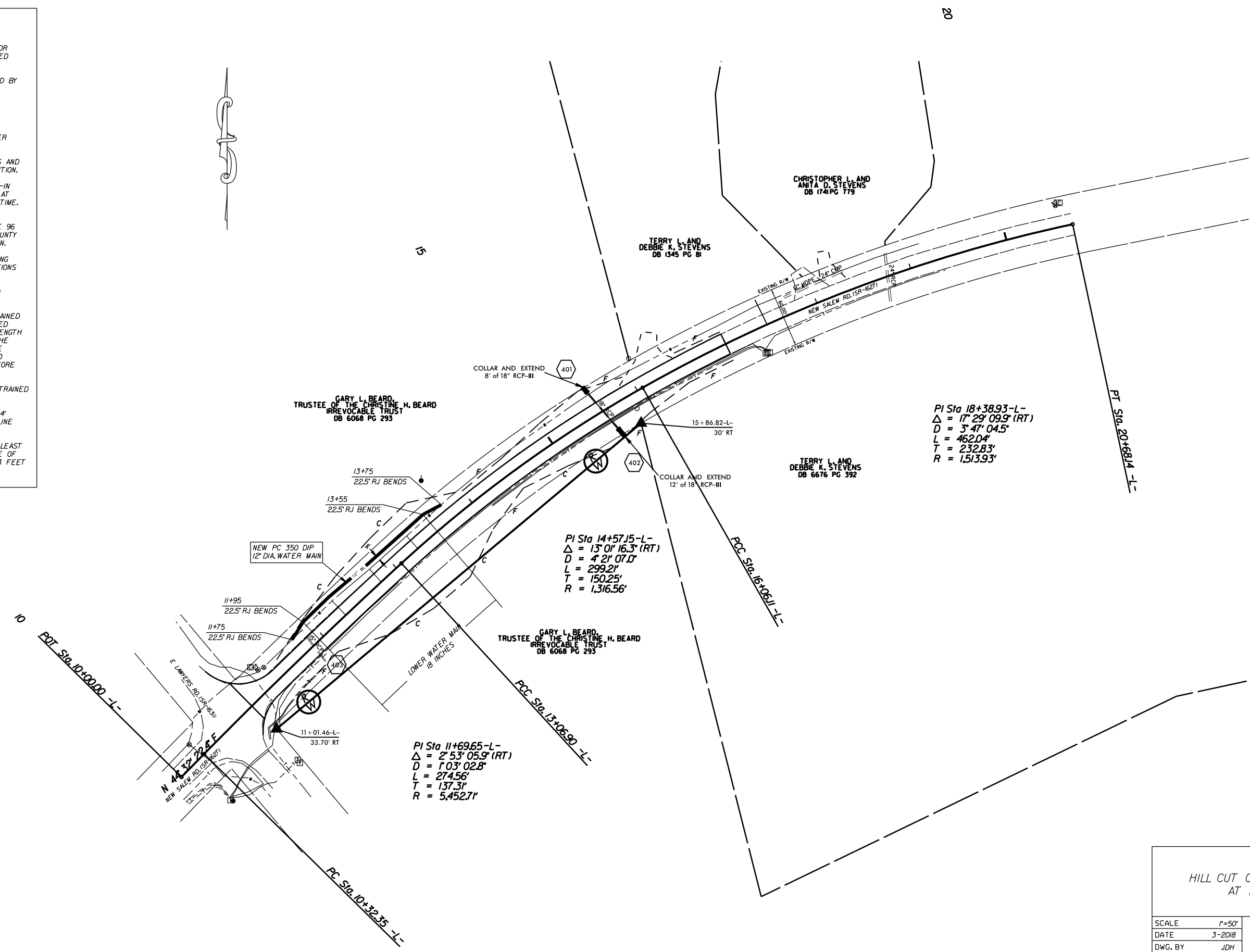
STANDARD CONCRETE THRUST BLOCKING BEHIND THE BENDS AT TIE-IN LOCATIONS WILL NOT BE ALLOWED AS THEY WILL NOT HAVE ADEQUATE TIME TO CURE BEFORE THE VALVES ARE OPEN AND WATER IS FLOWING.

IN LIEU OF THRUST BLOCKING, RESTRAINED JOINT PIPE WILL BE ALLOWED PROVIDED THE EXISTING 12" PIPE HAS A FULL LENGTH OF PIPE AVAILABLE TO REMAIN ON THE EXISTING MAIN, I.E. THE EXISTING PIPE MUST BE CUT NEXT TO THE BELL TO MAXIMIZE THE LENGTH OF PIPE BEFORE THE NEXT JOINT.

ALL SLEEVES MUST BE OF THE RESTRAINED JOINT TYPE.

CONTRACTOR TO MAINTAIN A MINIMUM 4' BUFFER BETWEEN EXISTING WATER LINE AND PROPOSED WATER LINE.

THE NEW WATER MAIN MUST BE AT LEAST 3 FEET BELOW THE PROPOSED EDGE OF PAVEMENT AND PROVIDE A MINIMUM 3 FEET OF COVER AT ALL TIMES.



HILL CUT ON NEW SALEM RD. (SR-1626)
AT LAWYERS RD. (SR-1631)

SCALE	1"=50'		REVISIONS
DATE	3-2018		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	JDH		

5/14/99

PROJECT REFERENCE NO.

SHEET NO.

47460.3J

UC-2

ROADWAY DESIGN
ENGINEER

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dwg

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