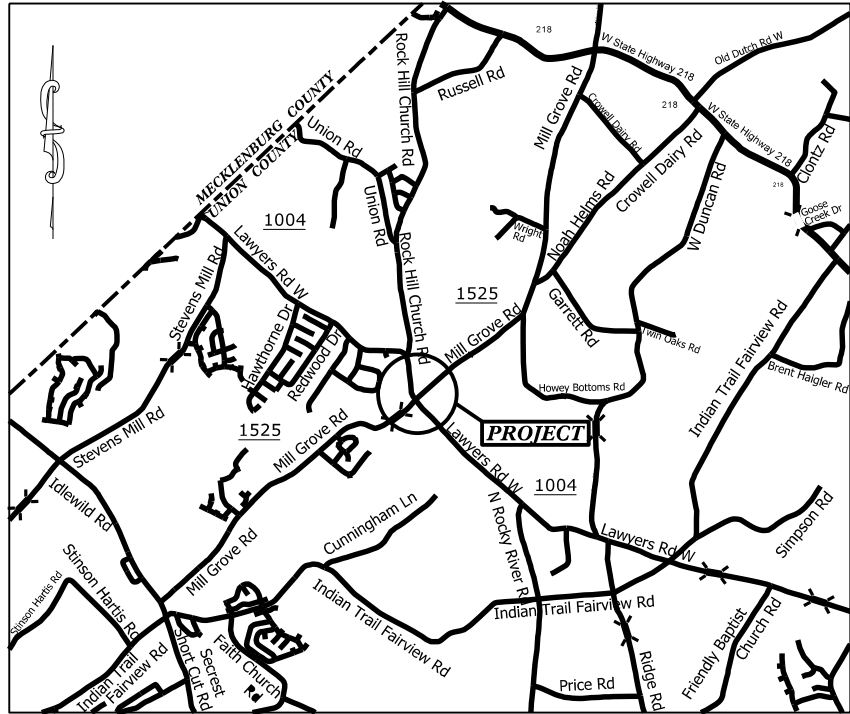


PROJECT: 44856.3.10 TIP: W-5710J



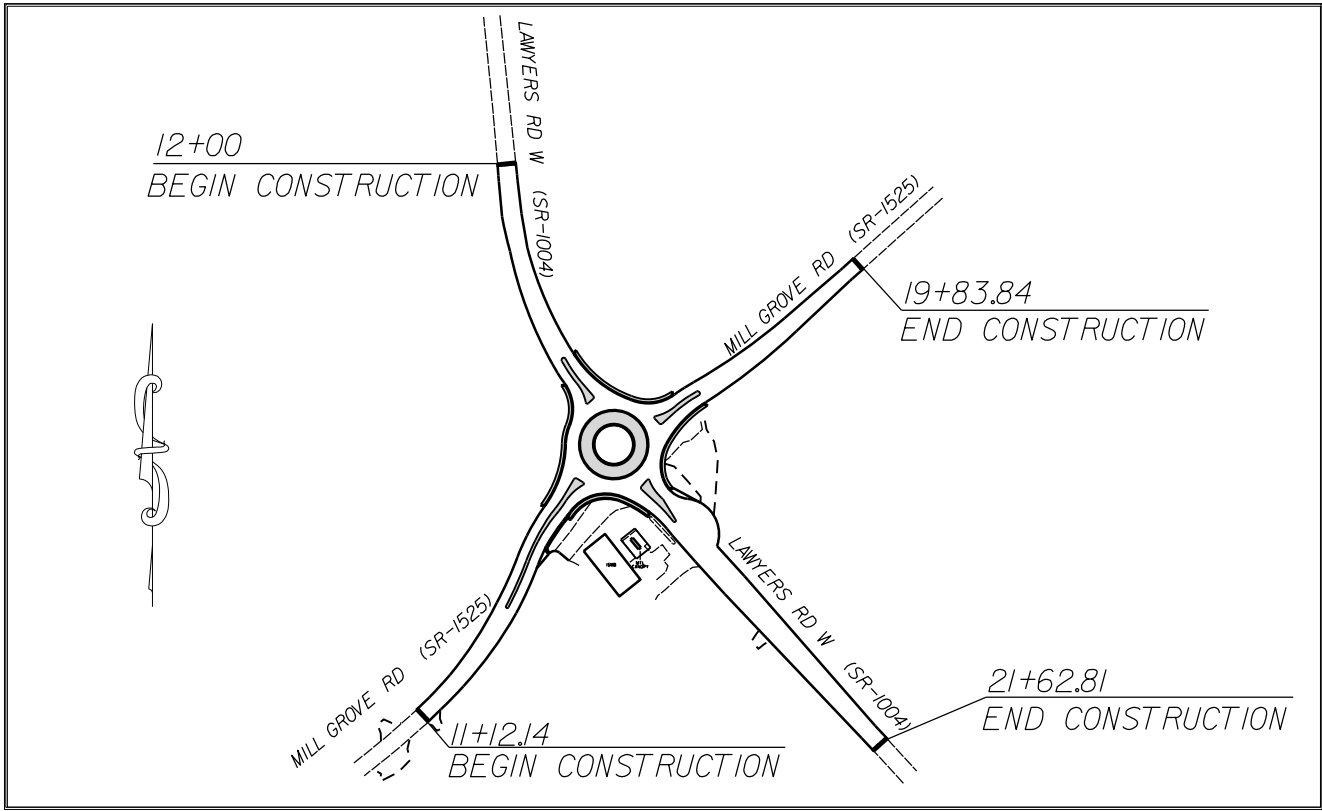
VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
UNION COUNTY

LOCATION: INTERSECTION OF LAWYERS RD. (SR-1004)
AND MILL GROVE RD. (SR-1525)

TYPE OF WORK: GRADING, DRAINAGE, MILLING, PAVEMENT REMOVAL, PAVING,
MONOLITHIC CONCRETE ISLANDS, AND THERMOPLASTIC PAVEMENT MARKINGS.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44856.3.10	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
44856.1.10	HSIP-1004(065)	P.E.	
44856.2.10	HSIP-1004(065)	R/W	
44856.3.10	HSIP-1004(065)	CONST.	

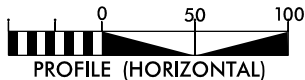


CLEARING ON THIS PROJECT SHALL BE TO THE LIMITS ESTABLISHED BY METHOD III AS DESCRIBED IN THE NCDOT STANDARD DRAWINGS

GRAPHIC SCALES



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

DESIGN DATA

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

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 44856.3.10 = 0.35 MILES
TOTAL LENGTH OF STATE PROJECT 44856.3.10 = 0.35 MILES

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 03, 2022

LETTING DATE:
AUGUST 3, 2022

DONALD HARWARD
PROJECT ENGINEER

JASON BROOKS
PROJECT DESIGN ENGINEER



ROADWAY DESIGN
ENGINEER



DocuSigned by:

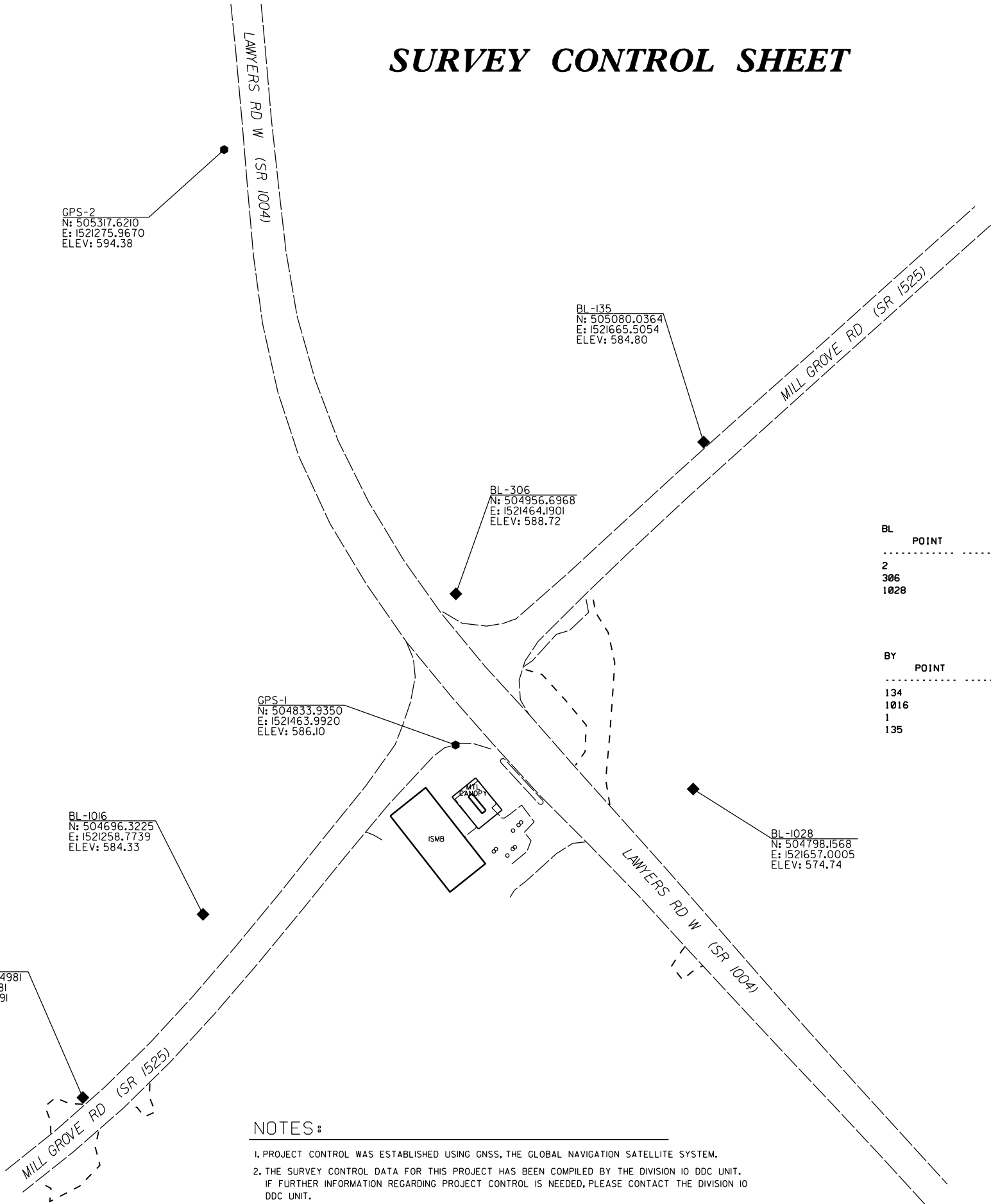
Michael Epperson

A92E75CC0FFB43B...

SIGNATURE

SURVEY CONTROL SHEET

PROJECT NO.	SHEET NO.
44856.3.10	1A
F.A. PROJECT NO. HSIP-1004(1065)	



BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
2			505317.6210	1521275.9670	594.38	11+83.97	28.61 RT
306			504956.6968	1521464.1901	588.72	15+91.53	28.93 LT
1028			504798.1568	1521657.0005	574.74	18+45.16	76.07 LT

BY	POINT	DESC.	NORTH	EAST	ELEVATION	Y STATION	OFFSET
134			504547.4981	1521161.1581	584.91	10+87.19	16.92 LT
1016			504696.3225	1521258.7739	584.33	12+73.45	39.81 LT
1			504833.9350	1521463.9920	586.10	15+10.59	66.62 RT
135			505080.0364	1521665.5054	584.80	18+36.25	14.39 LT

- 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.

ROUNDABOUT AT THE INTERSECTION OF LAWYERS RD.(SR-1004) AND MILL GROVE RD.(SR-1525)			REVISIONS	
SCALE	N/A			
DATE	9-2020			
DWG. BY	JCB			
DESIGN BY	JCB			
APPROVED	JDH			

RIGHT OF WAY, EASEMENT AND
PROPOSED ALIGNMENT SHEET

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	14+06.00	-20.43	505111.8799	1521368.0663
L	15+18.00	-35.00	505023.0665	1521431.9612
L	15+35.00	40.61	504969.9278	1521375.5570
L	15+61.00	-60.00	504998.7959	1521475.3771
L	16+87.00	-38.55	504891.2167	1521526.9120
L	17+02.00	41.32	504828.4540	1521475.2943
L	17+35.00	29.43	504810.7743	1521505.5866
L	17+71.00	-56.00	504838.3993	1521593.9246
L	18+60.00	-25.54	504753.1310	1521629.6719

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y	12+30.52	-17.68	504650.2429	1521255.0607
Y	12+32.26	-30.00	504658.7311	1521245.9817
Y	14+00.00	-30.00	504803.9729	1521320.2374
Y	14+92.00	-43.00	504892.0865	1521369.2318
Y	16+72.00	-30.00	505000.7510	1521524.8155
Y	18+53.00	-19.64	505094.7707	1521674.3977

L				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	505503.4632	1521287.2378	
PC	12+44.29	505260.2460	1521310.0940	
PT	14+79.19	505038.6342	1521382.0760	
POT	16+15.83	504921.0516	1521451.6700	
PC	17+61.45	504809.3852	1521545.1310	
PT	18+08.56	504773.9153	1521576.1335	
POT	22+21.58	504468.8288	1521854.5412	

Y				
TYPE	STATION	NORTH	EAST	
PC	10+00.00	504479.3526	1521105.2729	
PCC	11+37.14	504569.0726	1521208.8793	
PRC	13+70.10	504762.8797	1521334.7749	
PT	14+60.31	504839.9294	1521380.7493	
POT	15+68.07	504921.0516	1521451.6700	
PC	17+07.79	504993.7534	1521570.9862	
PRC	18+58.84	505084.0300	1521691.8190	
PT	21+28.29	505263.9132	1521892.4250	

PERMANENT DRAINAGE EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y	12+74.00	44.00	504653.8258	1521331.0166
Y	12+78.00	32.10	504663.5736	1521322.9536
Y	12+83.00	47.00	504660.7418	1521338.5390
Y	12+88.00	33.86	504671.9086	1521329.7632
Y	12+98.00	-35.07	504713.8416	1521274.1573
Y	12+99.00	-39.00	504716.5167	1521271.1348
Y	13+09.00	-35.17	504722.9907	1521278.8348
Y	13+09.00	-36.00	504723.3663	1521278.0993
Y	17+63.00	-40.00	505056.7282	1521593.9882
Y	17+63.00	-47.00	505062.4405	1521589.9423
Y	17+68.00	27.67	505004.5125	1521637.3104
Y	17+68.00	43.00	504992.0551	1521646.2512
Y	17+74.00	-38.08	505061.2774	1521603.6036
Y	17+74.00	-47.00	505068.4828	1521598.3500
Y	17+78.00	42.00	504999.0577	1521654.1802
Y	17+78.00	26.55	505011.4932	1521645.0175

PERMANENT UTILITY EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	13+81.00	-21.38	505134.5878	1521360.1862
L	14+73.00	-47.00	505067.4505	1521419.6740
L	15+03.00	40.32	504997.6129	1521359.5064
L	15+43.00	-80.00	505024.4729	1521483.4201
L	17+61.00	-81.00	504861.7151	1521606.9596
L	18+95.00	-44.00	504739.7232	1521666.9025
L	19+10.00	-25.05	504715.8726	1521663.0192

PERMANENT UTILITY EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y	12+33.12	-35.81	504662.7436	1521241.7022
Y	12+41.00	27.38	504633.1109	1521298.0609
Y	12+41.00	50.00	504620.3448	1521316.7302
Y	12+46.00	27.86	504637.1980	1521301.4049
Y	12+46.00	50.00	504624.8738	1521319.7960
Y	14+71.00	-60.00	504887.4656	1521342.6113
Y	16+53.00	-40.57	504999.8919	1521503.0898
Y	16+62.00	45.96	504930.6841	1521555.7986

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 17th day of NOV 2021

Barry D. Davis, _____ DocuSigned by: _____ PLS* L-4384
Professional Land Surveyor

Barry Davis

0E2AAE4F48174DC...



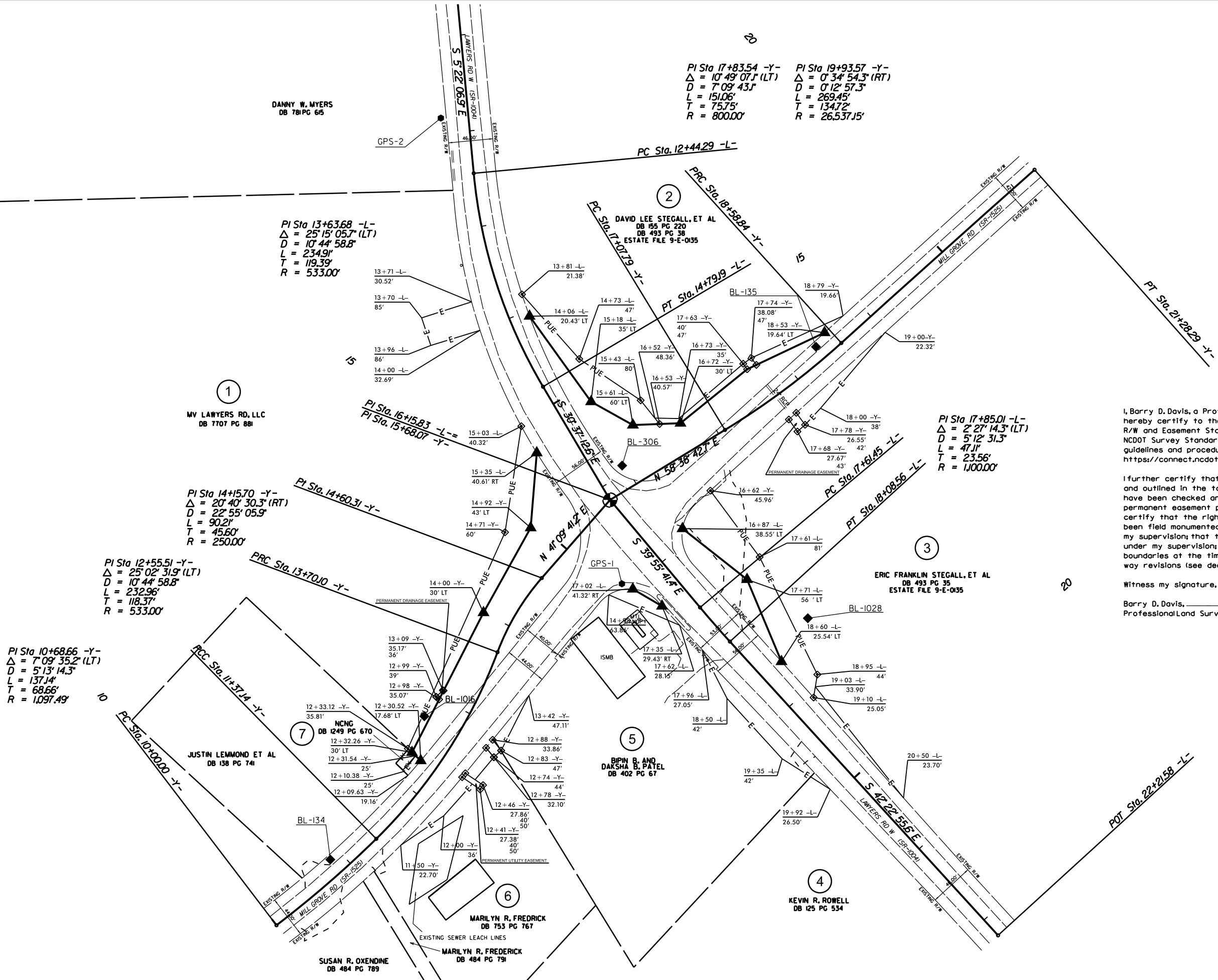
NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION 10 DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION 10 DDC UNIT.

ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

SCALE	N/A		REVISIONS	
DATE	4-2021			
DWG. BY	JCB			
DESIGN BY	JCB			
APPROVED	JDH			

PROJECT NO.	SHEET NO.
44856.3.10	IC
F.A. PROJECT NO.	HSIP-1004(065)



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 controls 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 17th day of NOV 2021

Barry D. Davis,
Professional Land Surveyor

DocuSigned by: PLS* L-4384

Barry Davis

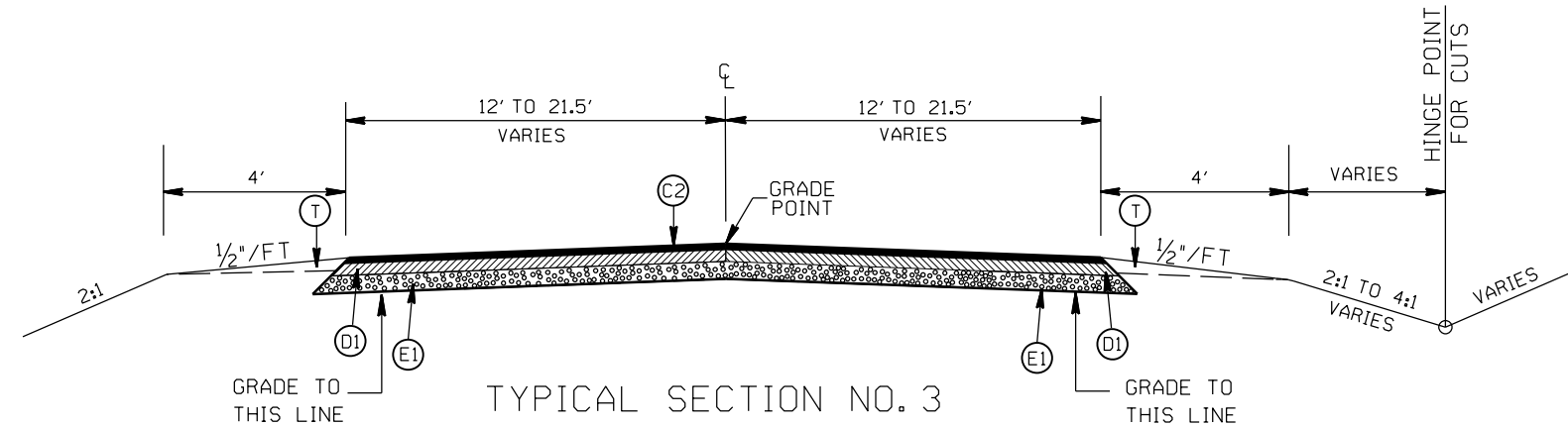
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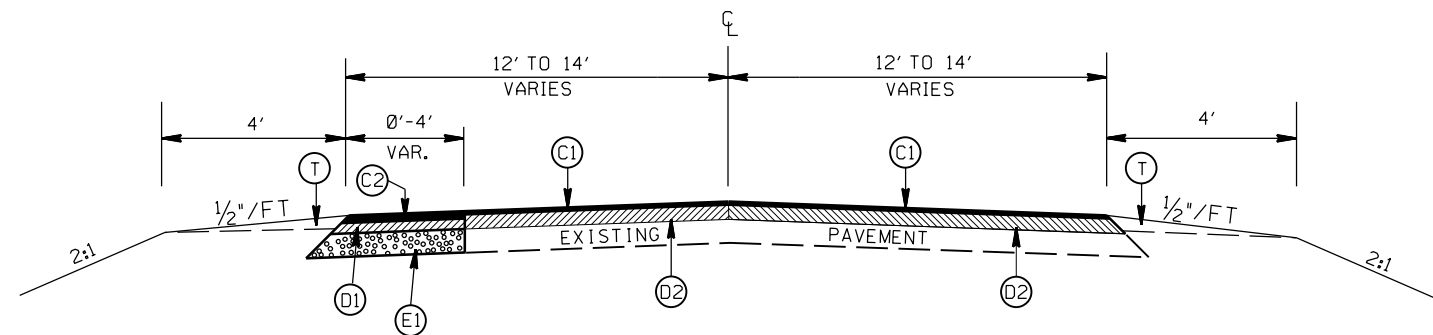
ROUNDBOUT AT THE INTERSECTION OF
LAWYERS RD. (SR-1004) AND
MILL GROVE RD. (SR-1525)

SCALE	N/A	REVISIONS
DATE	9-2020	
DWG. BY	JCB	
DESIGN BY	JCB	
APPROVED	JDH	

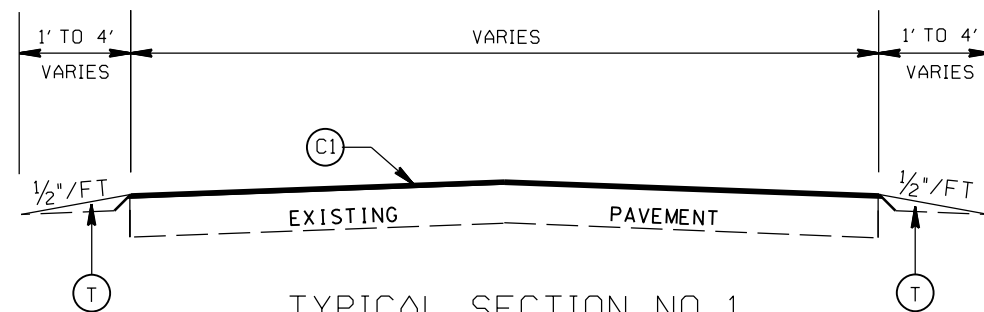




TYPICAL SECTION NO. 3
STA. 14+00.00 TO 14+79.19 -L-
STA. 12+50.00 TO 13+00.00 -Y-
STA. 17+04.70 TO 18+50.00 -Y-



TYPICAL SECTION NO. 2
STA. 13+19.85 TO 14+00.00 -L-



TYPICAL SECTION NO. 1
STA. 12+00.00 TO 13+19.85 -L-
STA. 21+37.81 TO 21+62.81 -L-
STA. 11+12.14 TO 11+37.14 -Y-
STA. 19+58.84 TO 19+83.84 -Y-

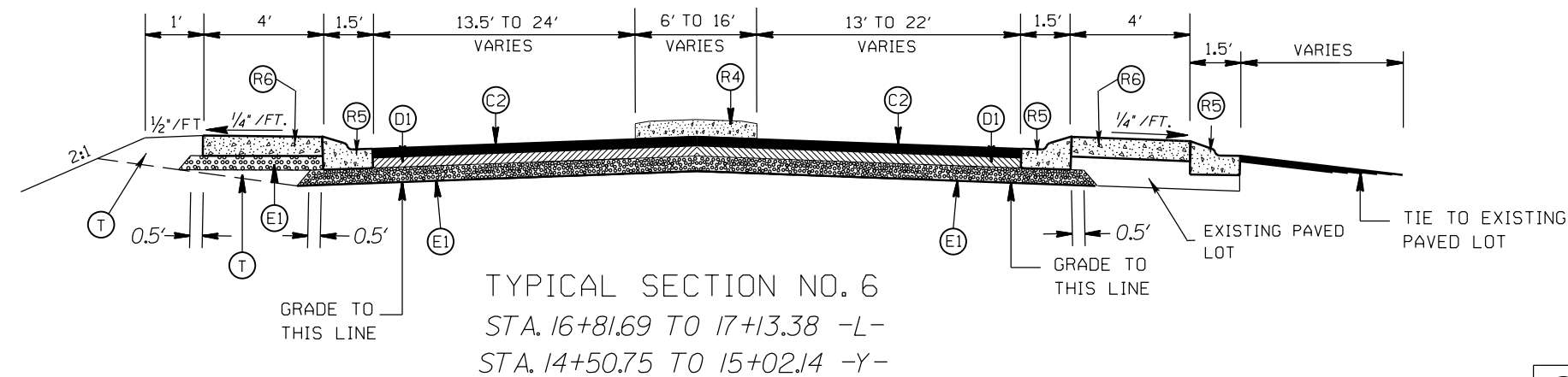
NOTES:
-UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)
IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R3,R6).
-OVERLAP WELDED WIRE MESH PANELS 4".

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(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" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT)
(R6)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT)
(R7)	PROP. MODIFIED SHOULDER BERM GUTTER (SEE DETAIL SHEET 2H)
(T)	EARTH MATERIAL
(J)	PROP. 6" ABC STONE

ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

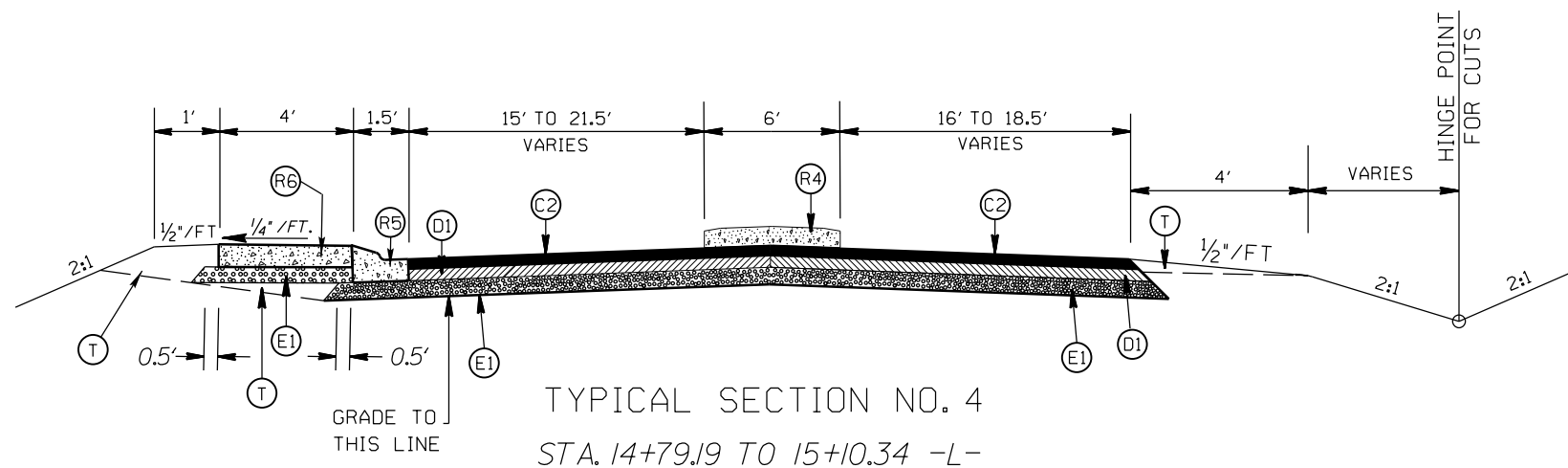
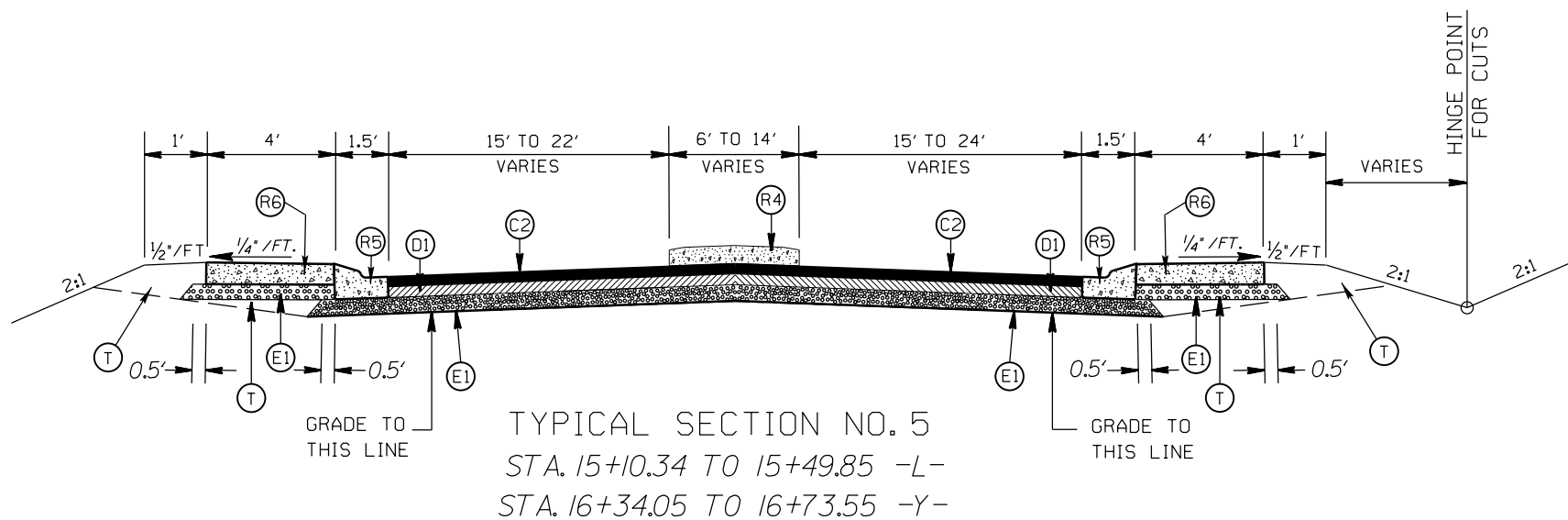
SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	JCB		
APPROVED	JDH		



NOTES:
-UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R3,R6).
-OVERLAP WELDED WIRE MESH PANELS 4".

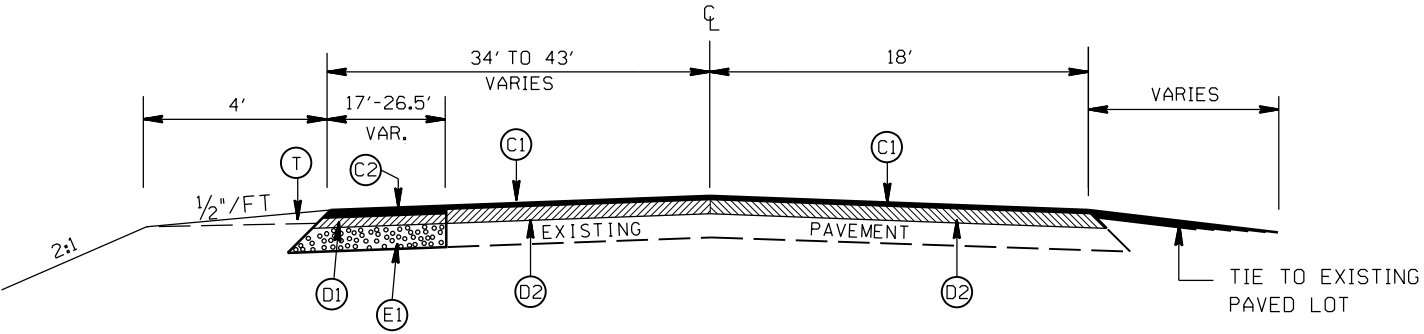
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(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" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
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(R3)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT)
(R6)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT)
(R7)	PROP. MODIFIED SHOULDER BERM GUTTER (SEE DETAIL SHEET 2H)
(T)	EARTH MATERIAL
(J)	PROP. 6" ABC STONE

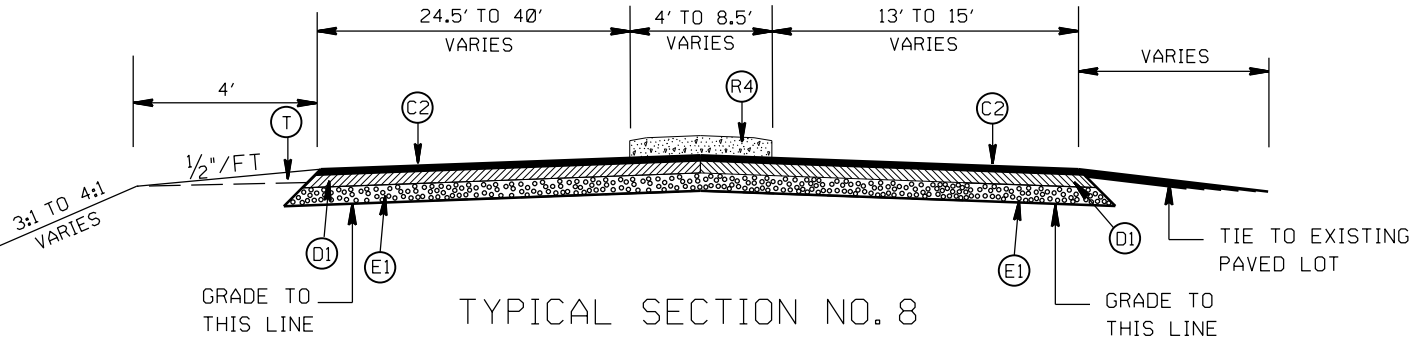


ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

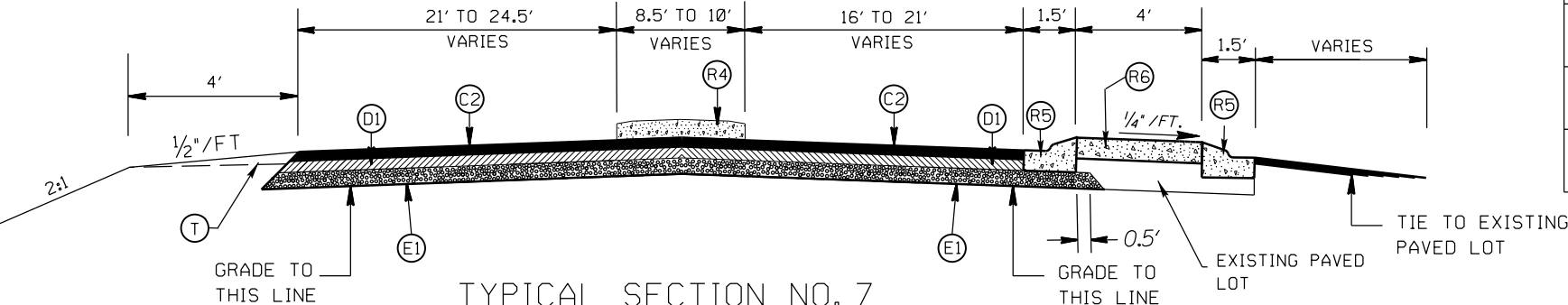
SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	JCB		
APPROVED	JDH		



TYPICAL SECTION NO. 9
STA. 17+49.99 TO 17+98.71 -L-



TYPICAL SECTION NO. 8
STA. 17+21.29 TO 17+49.99 -L-



TYPICAL SECTION NO. 7
STA. 17+13.38 TO 17+21.29 -L-

NOTES:
-UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)
IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R3, R6).
-OVERLAP WELDED WIRE MESH PANELS 4".

PAVEMENT SCHEDULE

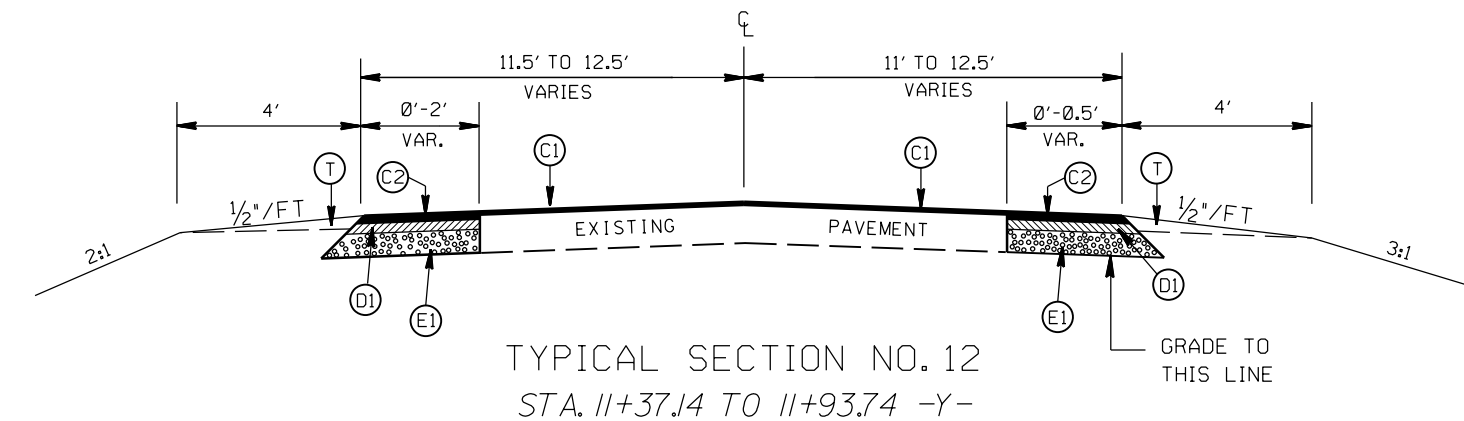
C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
E1	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE
R1	PROP. 2'-6" CONC. CURB & GUTTER
R2	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
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R5	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT)
R6	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT)
R7	PROP. MODIFIED SHOULDER BERM GUTTER (SEE DETAIL SHEET 2H)
T	EARTH MATERIAL
J	PROP. 6" ABC STONE

ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

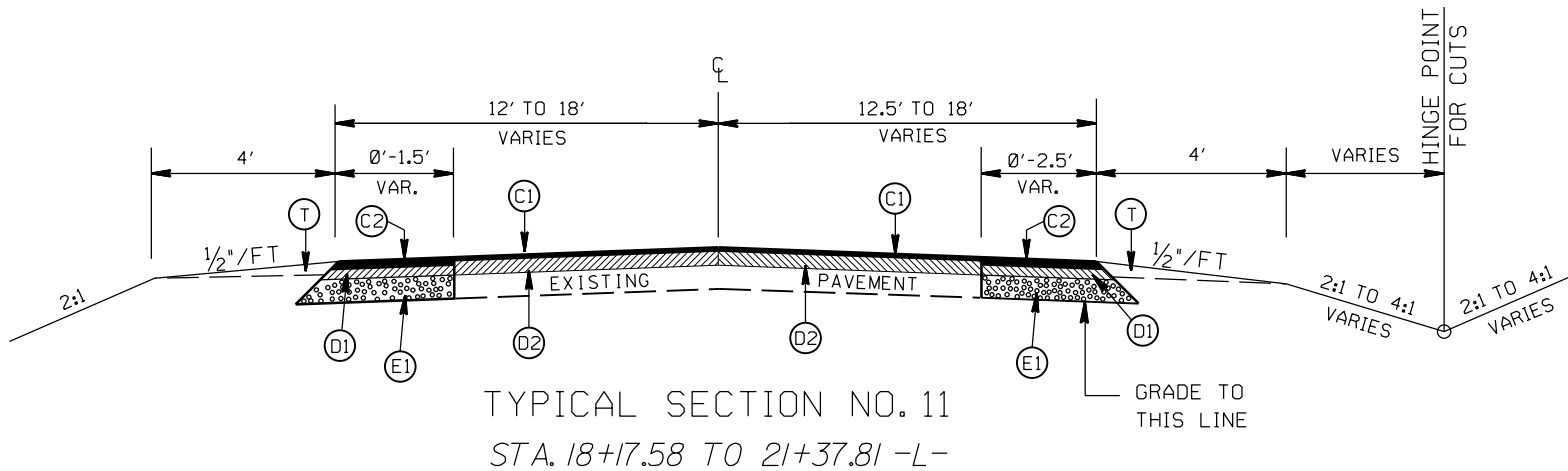
SCALE N/A
DATE 9-2020
DWG. BY DLS
DESIGN BY JCB
APPROVED JDH



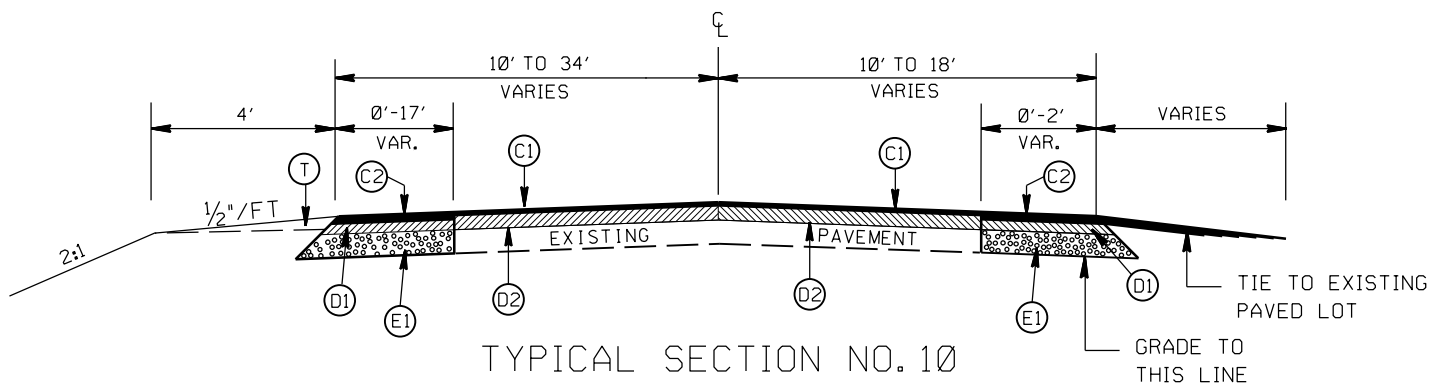
REVISIONS



TYPICAL SECTION NO. 12
STA. 11+37.14 TO 11+93.74 -Y-



TYPICAL SECTION NO. 11
STA. 18+17.58 TO 21+37.81 -L-



TYPICAL SECTION NO. 10
STA. 17+98.71 TO 18+17.58 -L-
STA. 18+50.00 TO 19+58.84 -Y-

NOTES:

- UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R3, R6).
- OVERLAP WELDED WIRE MESH PANELS 4".

PAVEMENT SCHEDULE

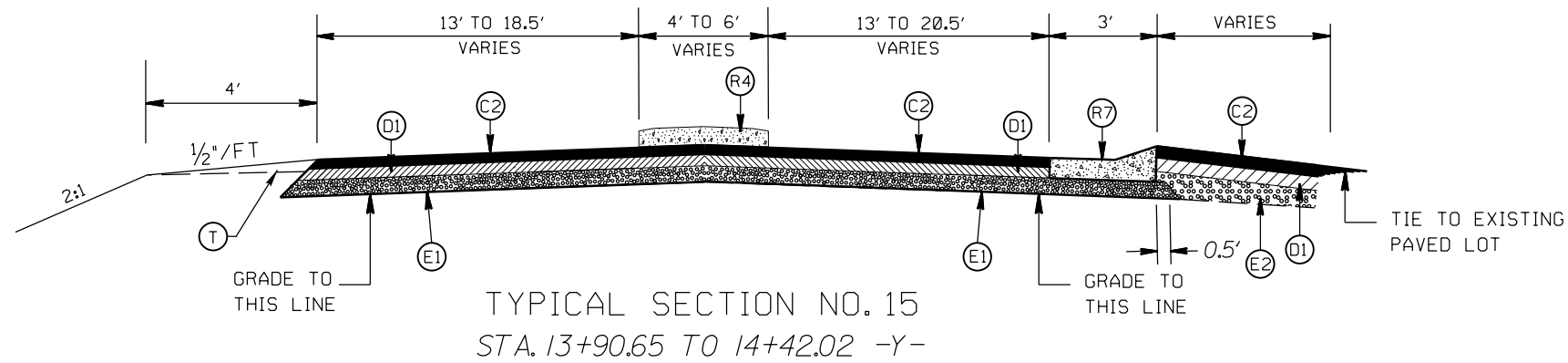
C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
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D2	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
E1	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE
R1	PROP. 2'-6" CONC. CURB & GUTTER
R2	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
R3	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
R4	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
R5	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT)
R6	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT)
R7	PROP. MODIFIED SHOULDER BERM GUTTER (SEE DETAIL SHEET 2H)
T	EARTH MATERIAL
J	PROP. 6" ABC STONE

ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

SCALE	N/A
DATE	9-2020
DWG. BY	DLS
DESIGN BY	JCB
APPROVED	JDH



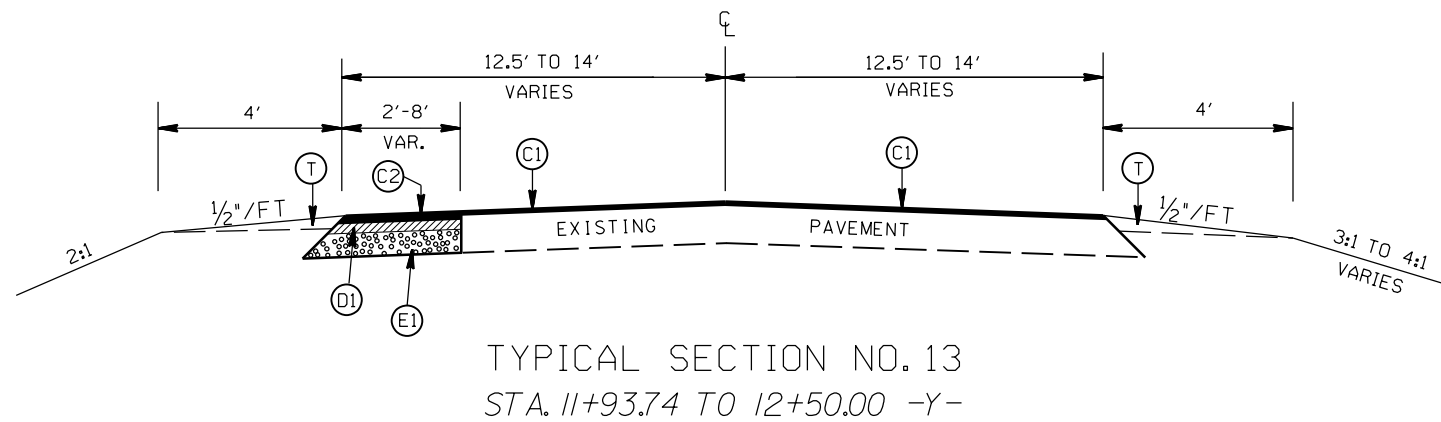
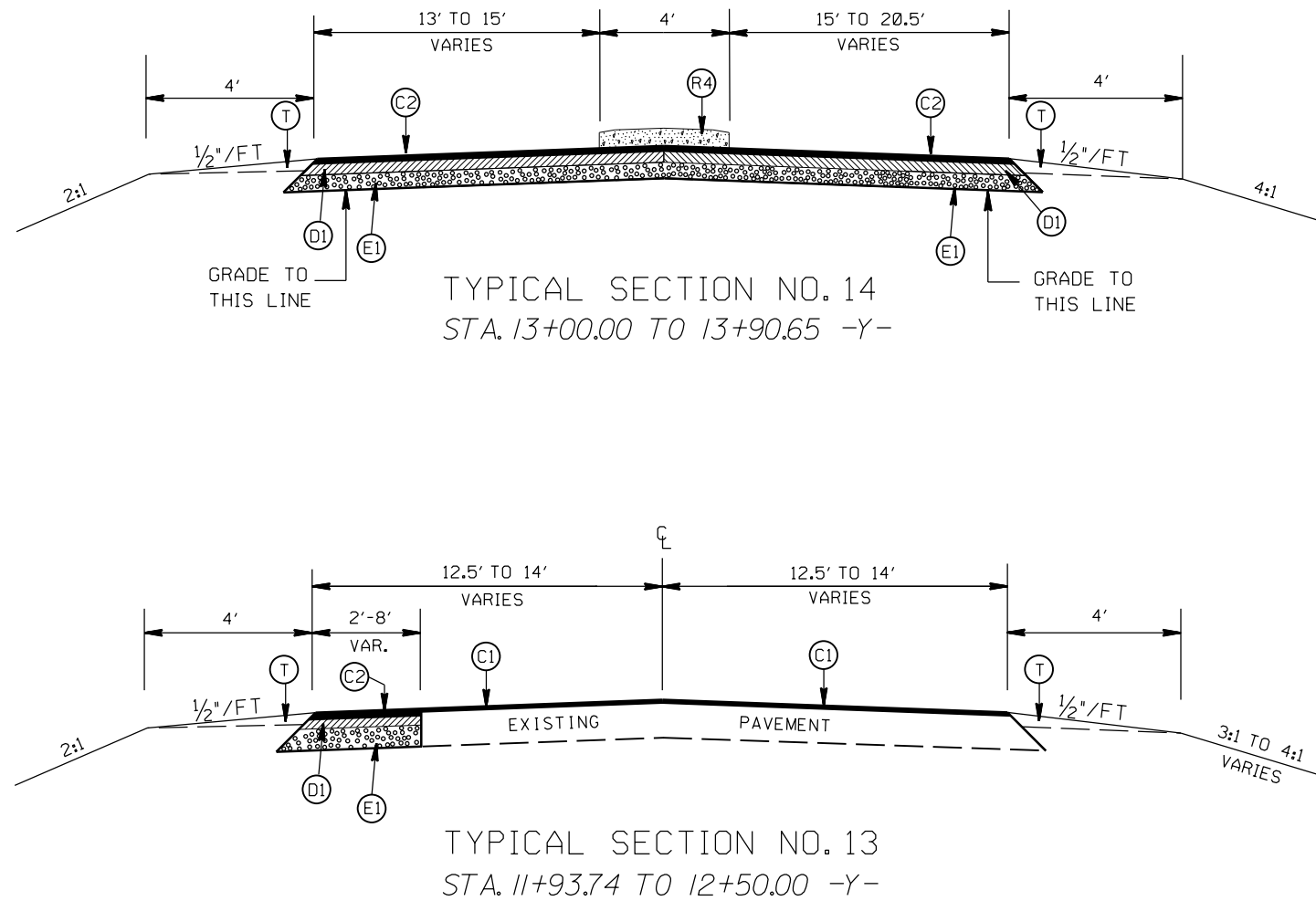
REVISIONS



NOTES:
-UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R3, R6).
-OVERLAP WELDED WIRE MESH PANELS 4".

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
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" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE
R1	PROP. 2'-6" CONC. CURB & GUTTER
R2	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
R3	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
R4	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
R5	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT)
R6	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT)
R7	PROP. MODIFIED SHOULDER BERM GUTTER (SEE DETAIL SHEET 2H)
T	EARTH MATERIAL
J	PROP. 6" ABC STONE



ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	JCB		
APPROVED	JDH		

PROJECT NO.
44856.3.10

SHEET NO.
2E

F.A. PROJECT NO. HSIP-100410651

ROADWAY DESIGN
ENGINEER

SEAL

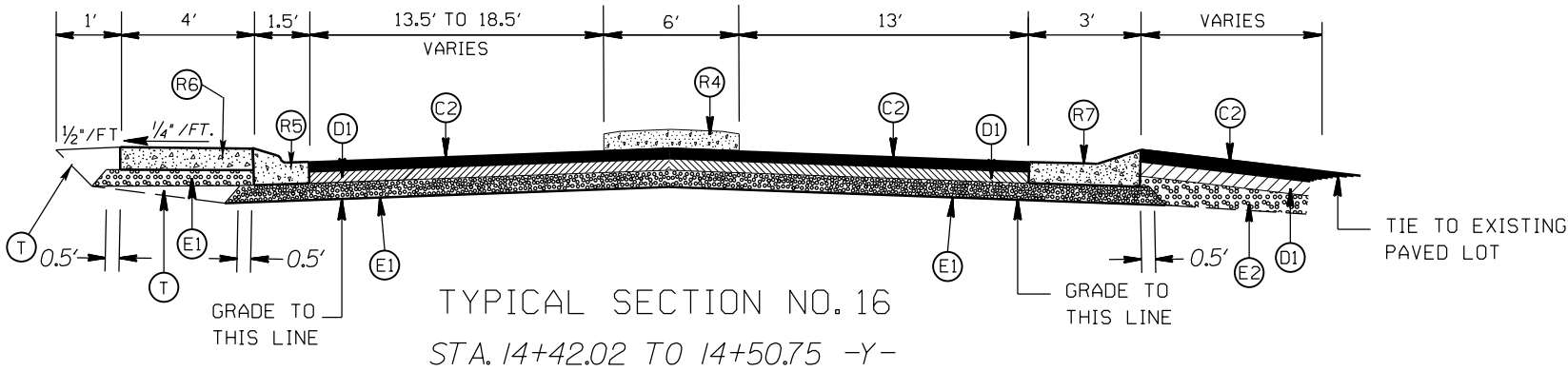
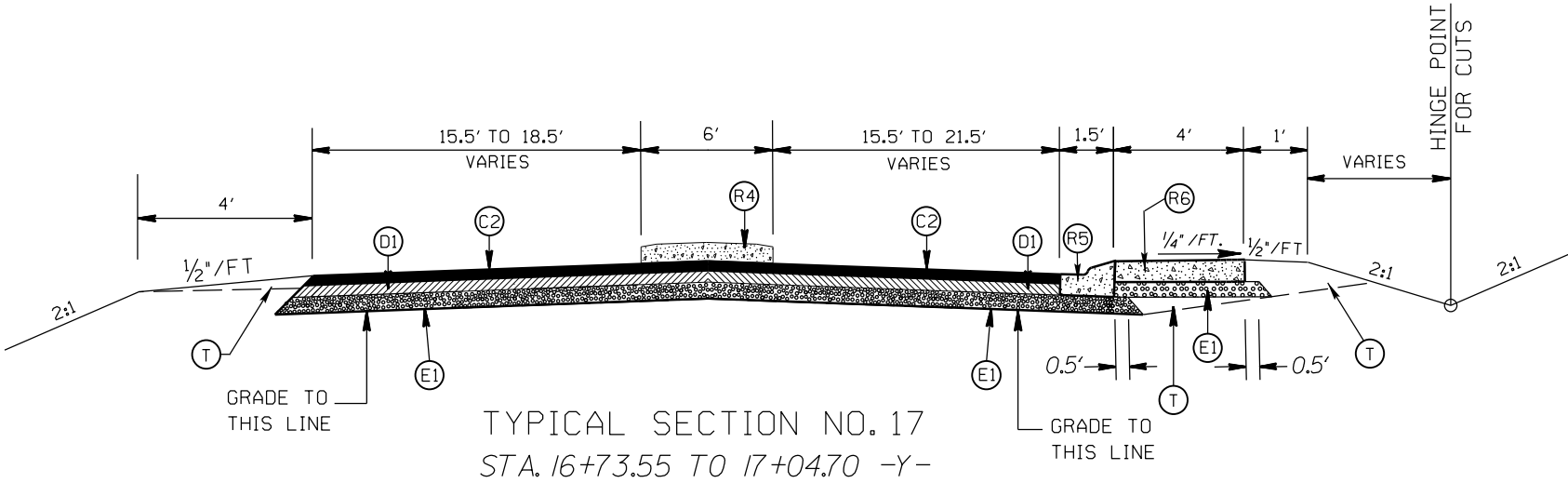
DESIGNED BY:
MICHAEL J. BROWN

A92E75CC0FFB43E...

NOTES:
-UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)
IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R3,R6).
-OVERLAP WELDED WIRE MESH PANELS 4".

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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R7	PROP. MODIFIED SHOULDER BERM GUTTER (SEE DETAIL SHEET 2H)
T	EARTH MATERIAL
J	PROP. 6" ABC STONE



ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

SCALE
DATE
DWG. BY
DESIGN BY
APPROVED

N/A
9-2020
DLS
JCB
JDH

DIVISION OF HIGHWAYS

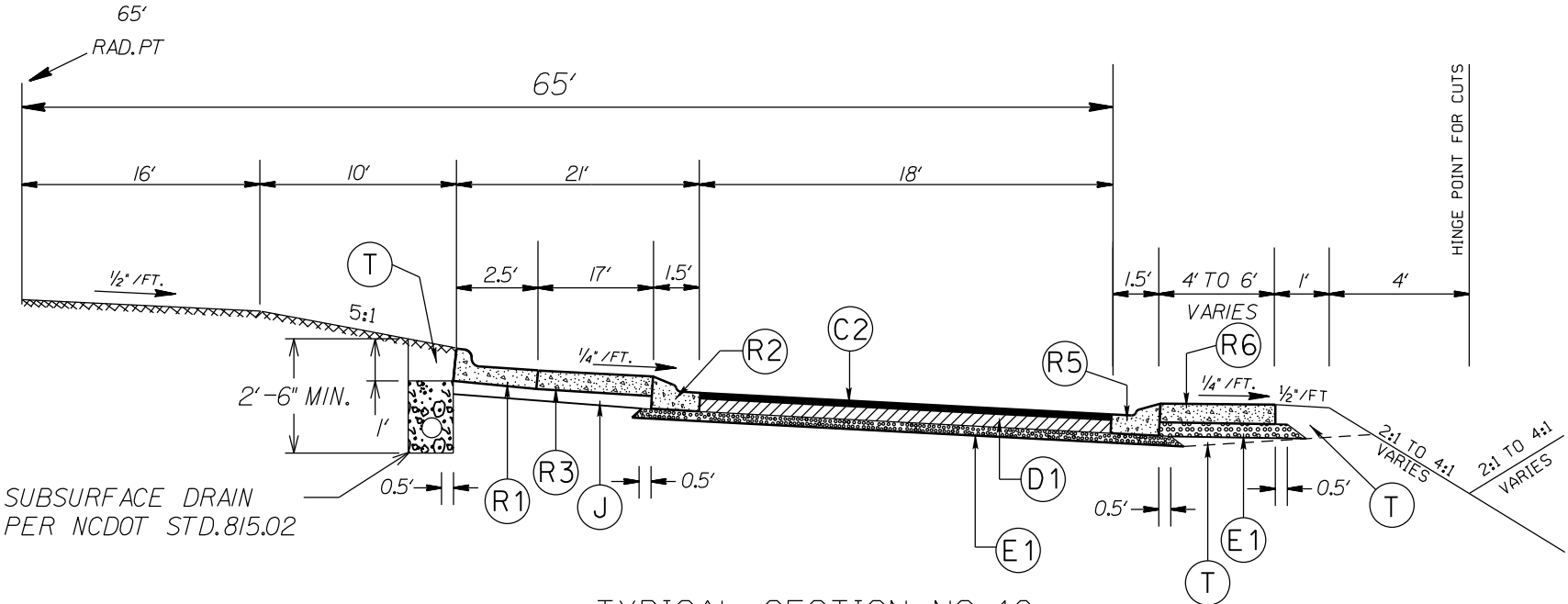
SEAL

DESIGNED BY:
MICHAEL J. BROWN

A92E75CC0FFB43E...

REVISIONS

NOTES:
-UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)
IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R3,R6).
-OVERLAP WELDED WIRE MESH PANELS 4".



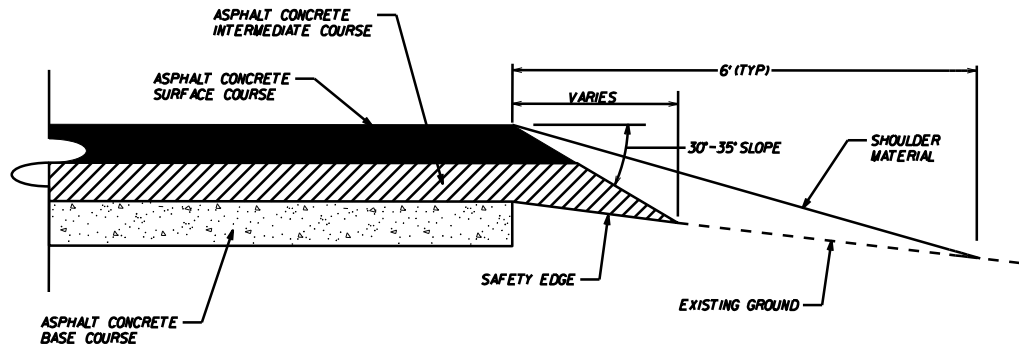
TYPICAL SECTION NO. 18
ROUNABOUT

PAVEMENT SCHEDULE

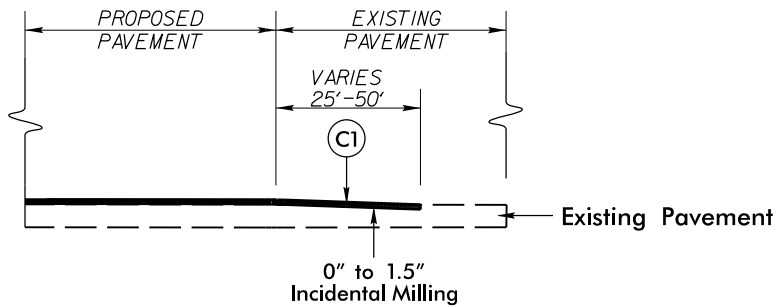
C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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R7	PROP. MODIFIED SHOULDER BERM GUTTER (SEE DETAIL SHEET 2H)
T	EARTH MATERIAL
J	PROP. 6" ABC STONE

ROUNABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

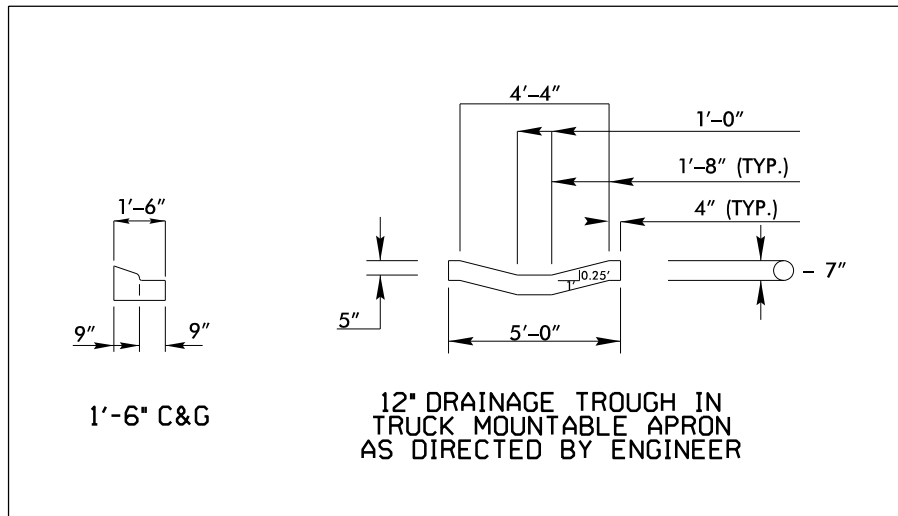
SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	JCB		
APPROVED	JDH		



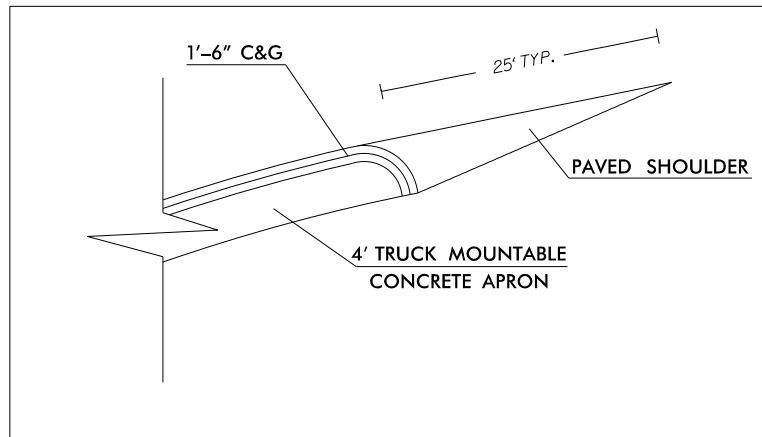
SAFETY EDGE DETAIL



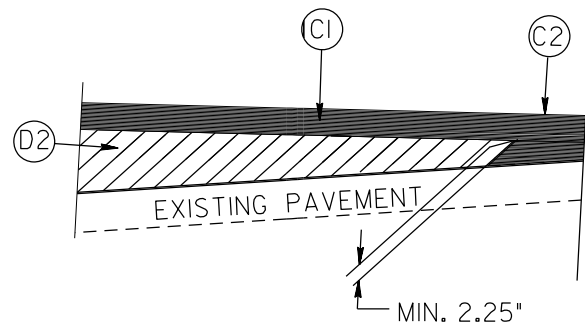
INCIDENTAL MILLING DETAIL
EXISTING ROAD TIE-IN
PROJECT TIE-INS



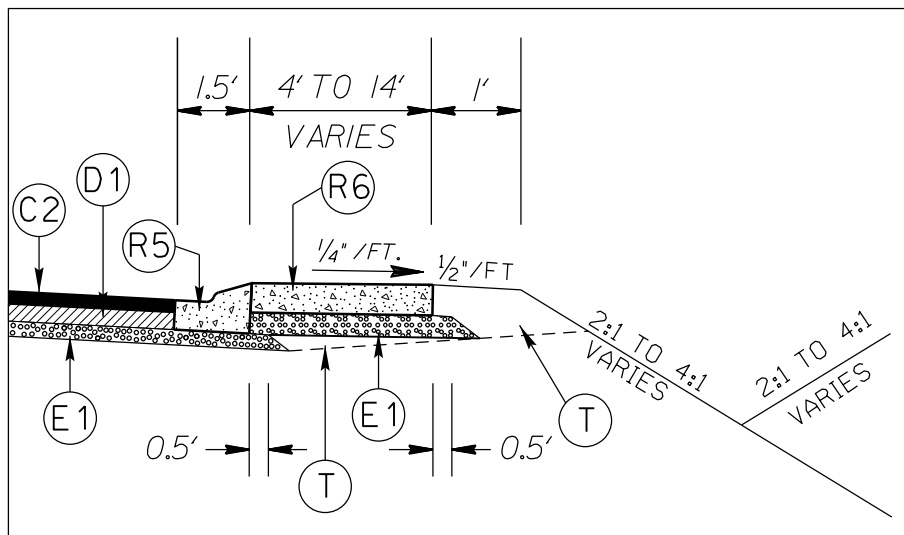
DRAINAGE TROUGH DETAIL



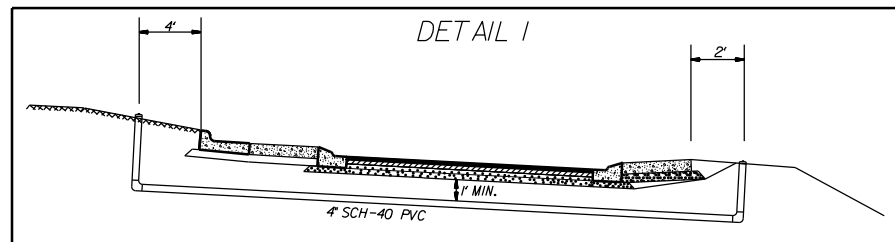
CURB DETAIL



WEDGING DETAIL



APRON DETAIL



PVC PIPE DETAIL

C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
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T	EARTH MATERIAL
J	PROP. 6" ABC STONE

NOTES:
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-OVERLAP WELDED WIRE MESH PANELS 4".

PROJECT NO.	SHEET NO.
44856.3.10	20
F.A. PROJECT NO. HSIP-1004(065)	

ROADWAY DESIGN ENGINEER

SEAL

100425

ENGINEER

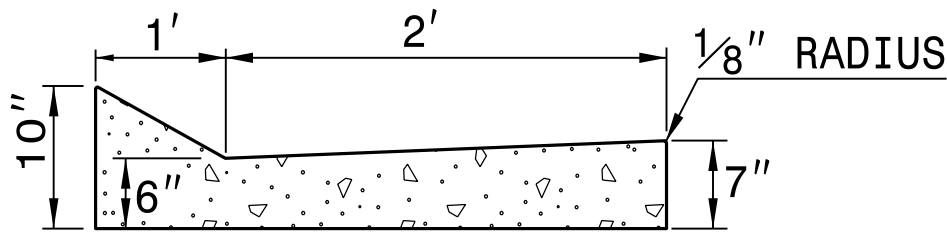
MICHAEL GARY

A92E75CC0FFB43B

PAVEMENT SCHEDULE

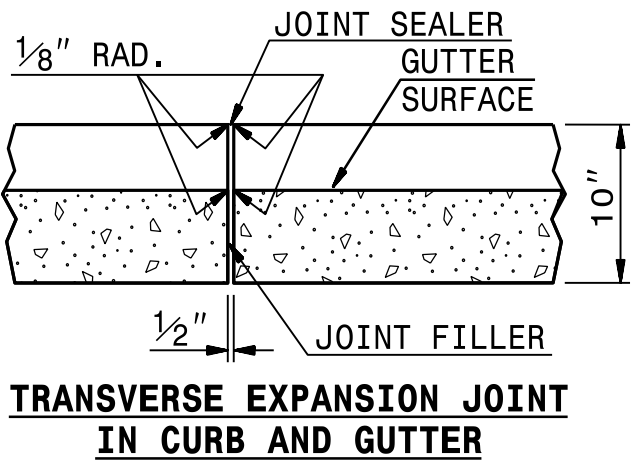
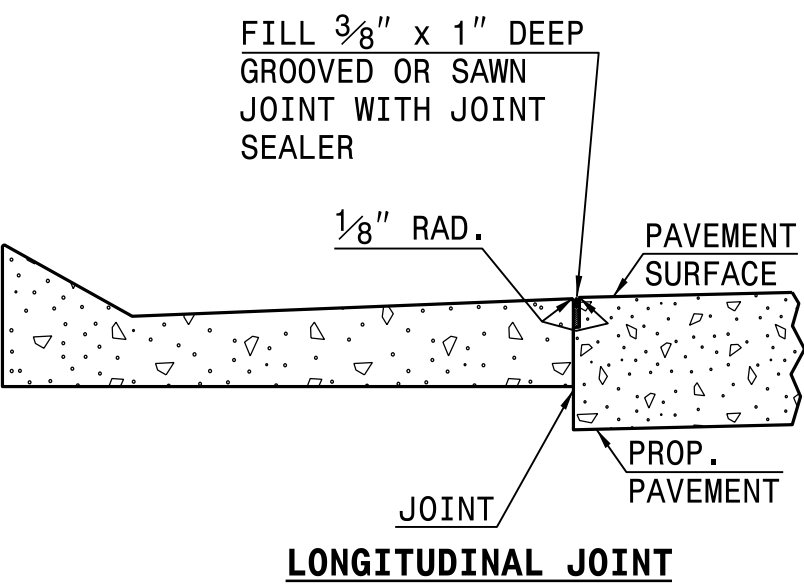
ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	JCB		
APPROVED	JDH		



MODIFIED SHOULDER BERM GUTTER

- GENERAL NOTES:
- PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
 - JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
 - CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. CONSTRUCT NON-TEMPLATE FORMED JOINTS A MIN. OF 1½" DEEP.
 - FILL ALL CONSTRUCTION JOINTS WITH JOINT FILLER AND SEALER.
 - SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.

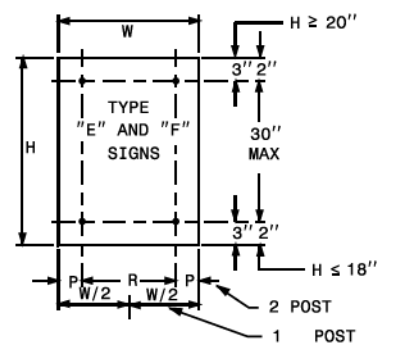
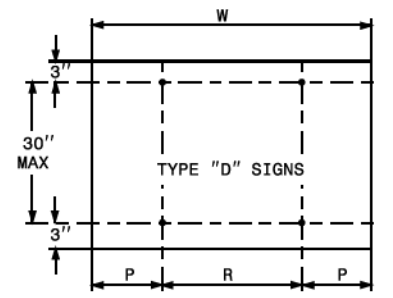
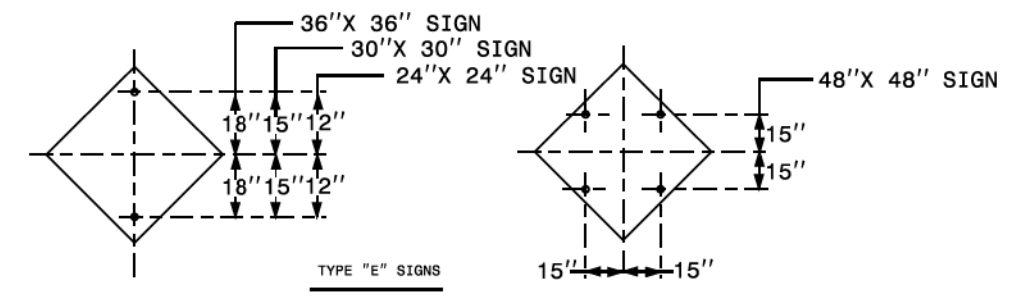


SECTION VIEW OF JOINTS

ROUNDABOUT AT THE INTERSECTION OF LAWYERS RD.(SR-1004) AND MILL GROVE RD.(SR-1525)			REVISIONS	
SCALE	N/A			
DATE	11-2020			
DWG. BY	JCB			
DESIGN BY	JCB			
APPROVED	JDH			

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

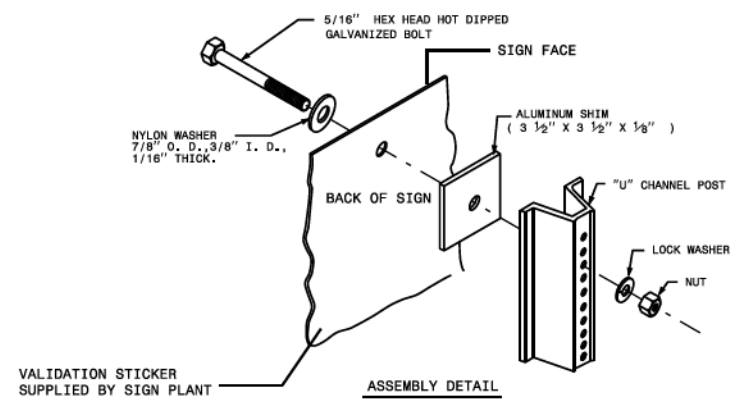
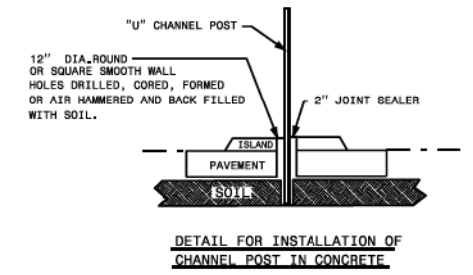
1-12
ENGLISH STANDARD DRAWING FOR
MOUNTING OF
TYPE 'D', 'E' AND 'F' SIGNS
ON 'U' CHANNEL POSTS



NO. SUPPORTS			
	2	3 *	4
P	.207W	.145W	.107W
R	.586W	.355W	.262W

UNITS ON ATTACHED SHEET
* MINIMUM 4 FT. BETWEEN CHANNEL POSTS

HOLE PUNCHING DETAIL



1-12
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
MOUNTING OF
TYPE 'D', 'E' AND 'F' SIGNS
ON 'U' CHANNEL POSTS

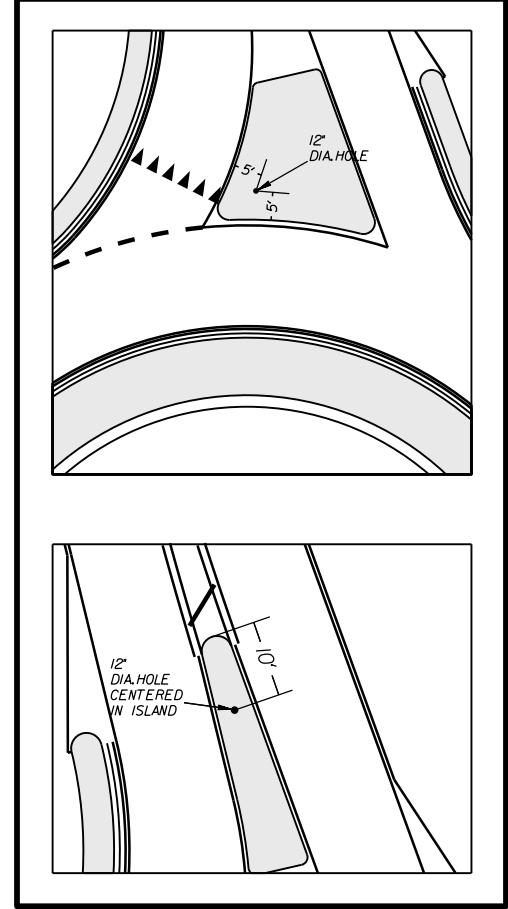
SHEET 2 OF 2
904.50

PROJECT NO.	SHEET NO.
44856.3.10	21
F.A. PROJECT NO. HSP-1004(065)	

ROADWAY DESIGN ENGINEER

SEAL 034357
DocuSign
MICHAEL
A92E75CC0FFB48B

12" DIA. HOLE LOCATION
FOR SIGN U-CHANNEL POST
IN SPLITTER ISLANDS

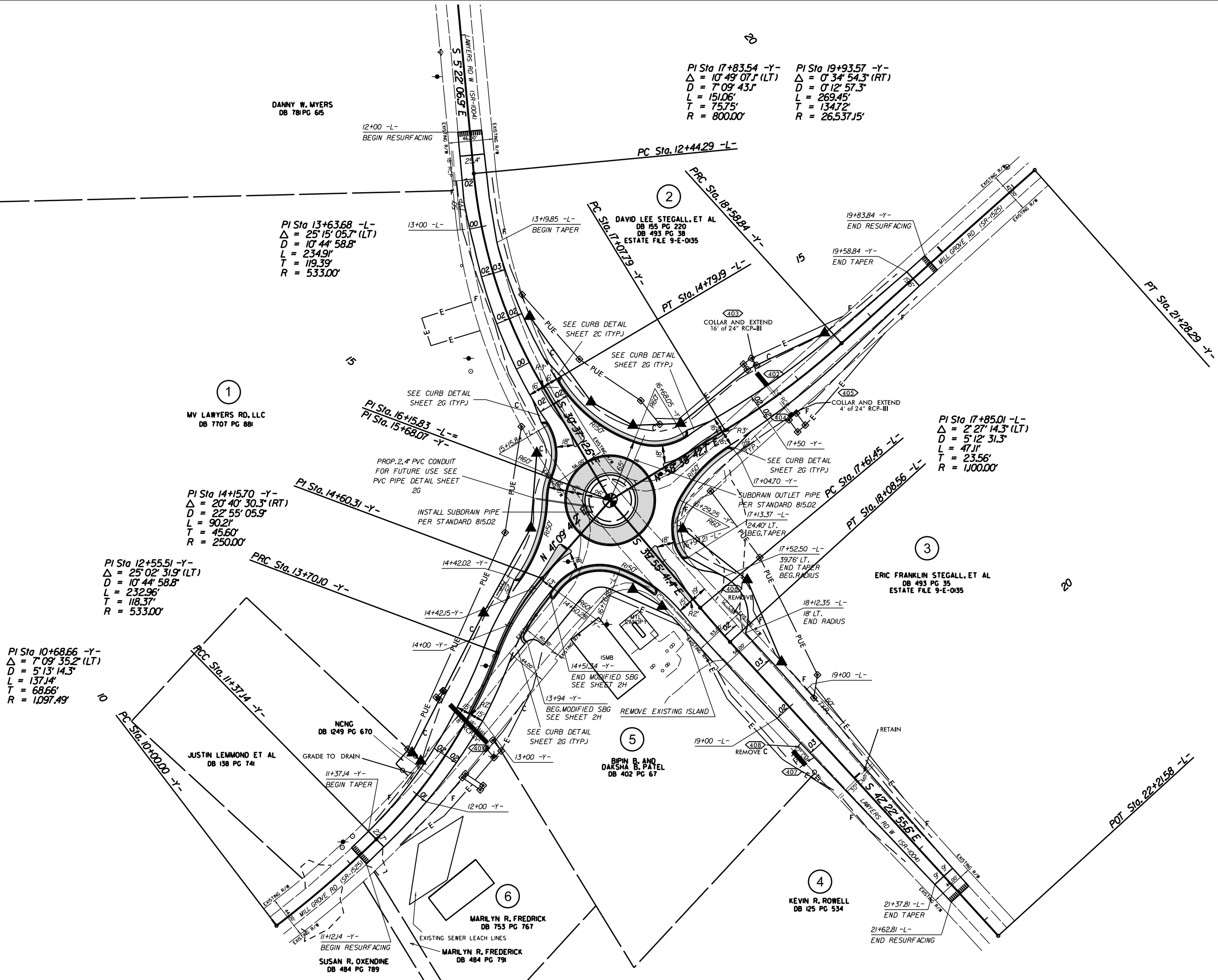


ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

SCALE	N/A		REVISIONS	
DATE	9-2020			
DWG. BY	DLS			
DESIGN BY	JCB			
APPROVED	JDH			

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

[illegible]



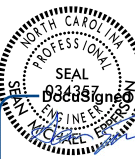
NOTE: SEE SHEET 4A FOR R/W
AND EASEMENT LOCATIONS

NOTE: INCIDENTAL MILL APPROX. 25' AT EACH
TIE IN TO PROVIDE A SMOOTH TRANSITION
TO THE EXISTING ASPHALT PAVEMENT.

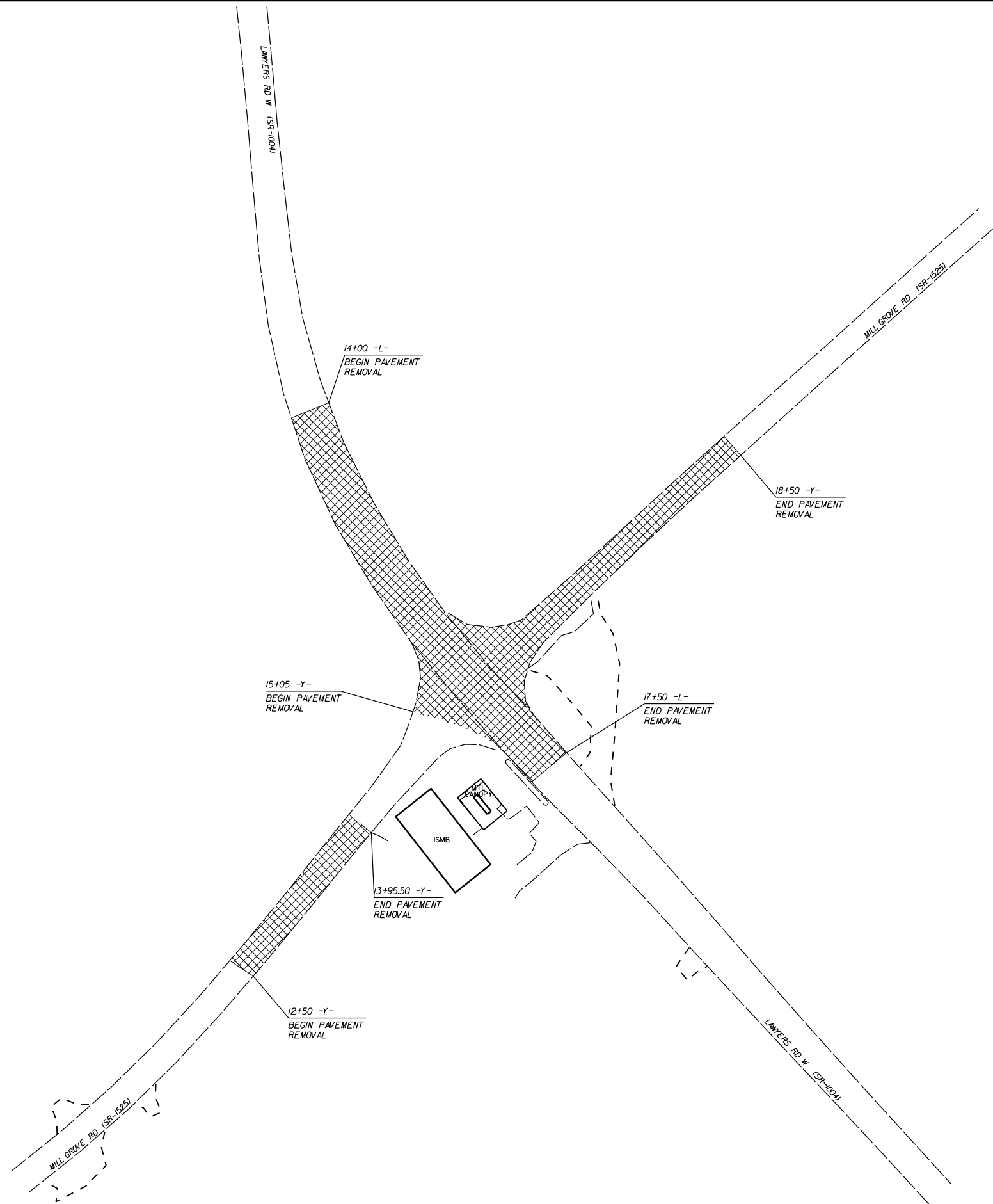
ROUNDABOUT AT THE INTERSECTION OF LAWYERS RD. (SR-1004) AND MILL GROVE RD. (SR-1525)	
SCALE	1"=50'
DATE	1-2022
DWG. BY	JCB
DESIGN BY	JCB
APPROVED	JDH
REVISIONS	

PROJECT NO.	SHEET NO.
44856.3.10	5
F.A. PROJECT NO. HSIP-1004(065)	

ROADWAY DESIGN
ENGINEER

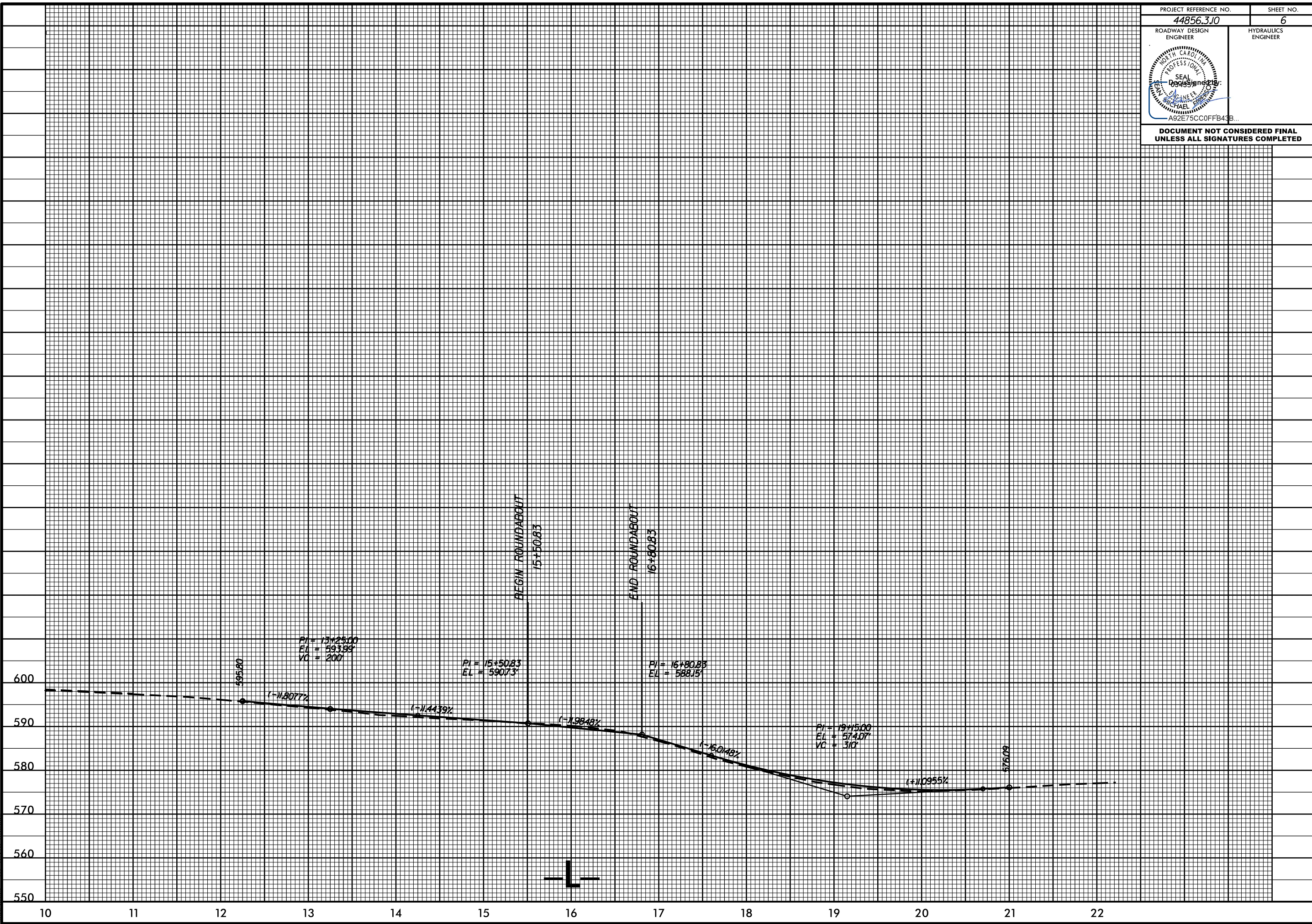


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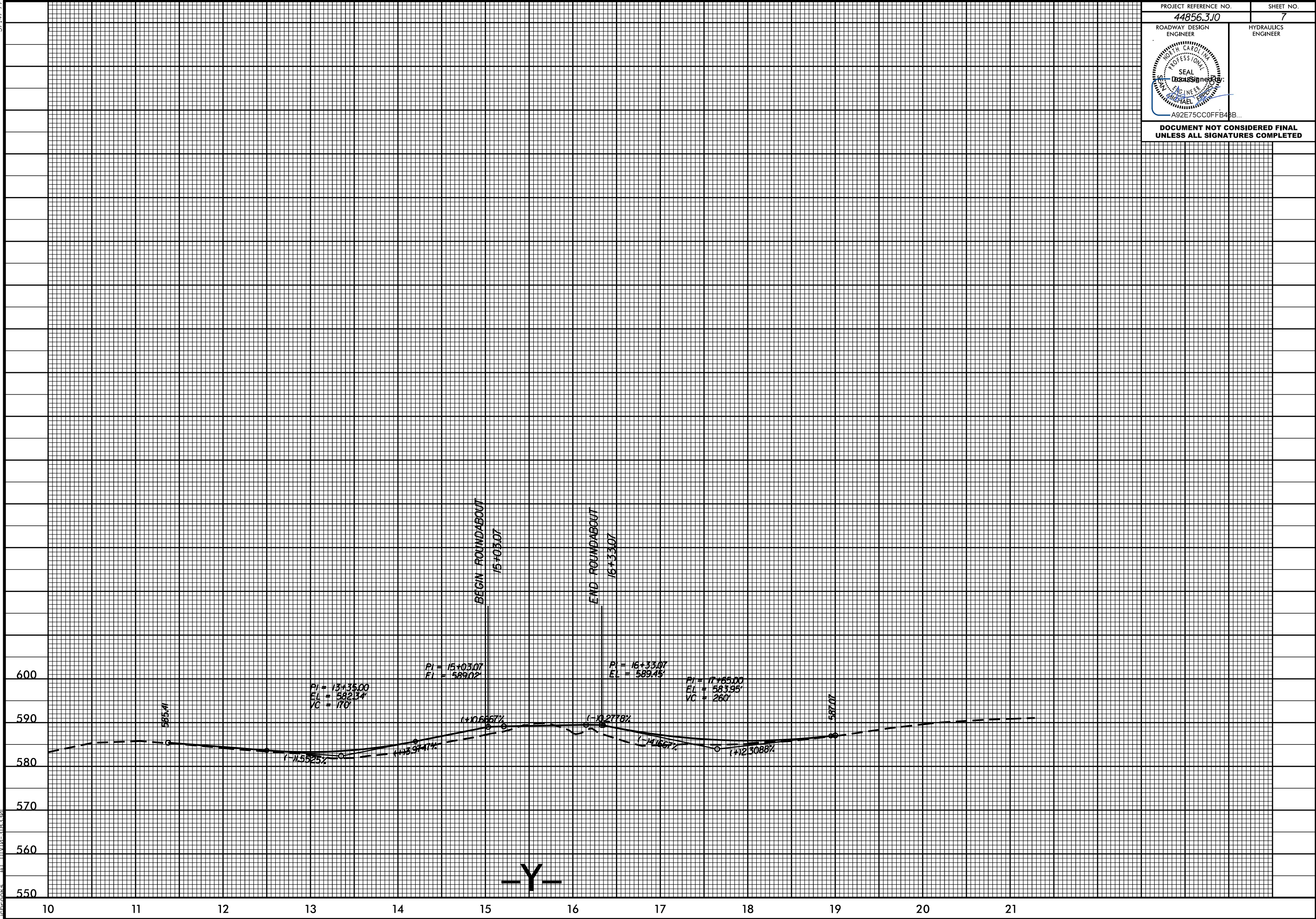
 PAVEMENT REMOVAL

ROUNABOUT AT THE INTERSECTION OF LAWYERS RD.(SR-1004) AND MILL GROVE RD.(SR-1525)			REVISIONS	
SCALE	1"=50'			
DATE	9-2019			
DWG. BY	JCB			
DESIGN BY	JCB			
APPROVED	JDH			



5/14/99

10-NOV-2020 08:34
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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44856.3.10	EC-1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
44856.1.10	HSIP-1004(065)	P.E.	
44856.2.10	HSIP-1004(065)	R/W	
44856.3.10	HSIP-1004(065)	CONST.	

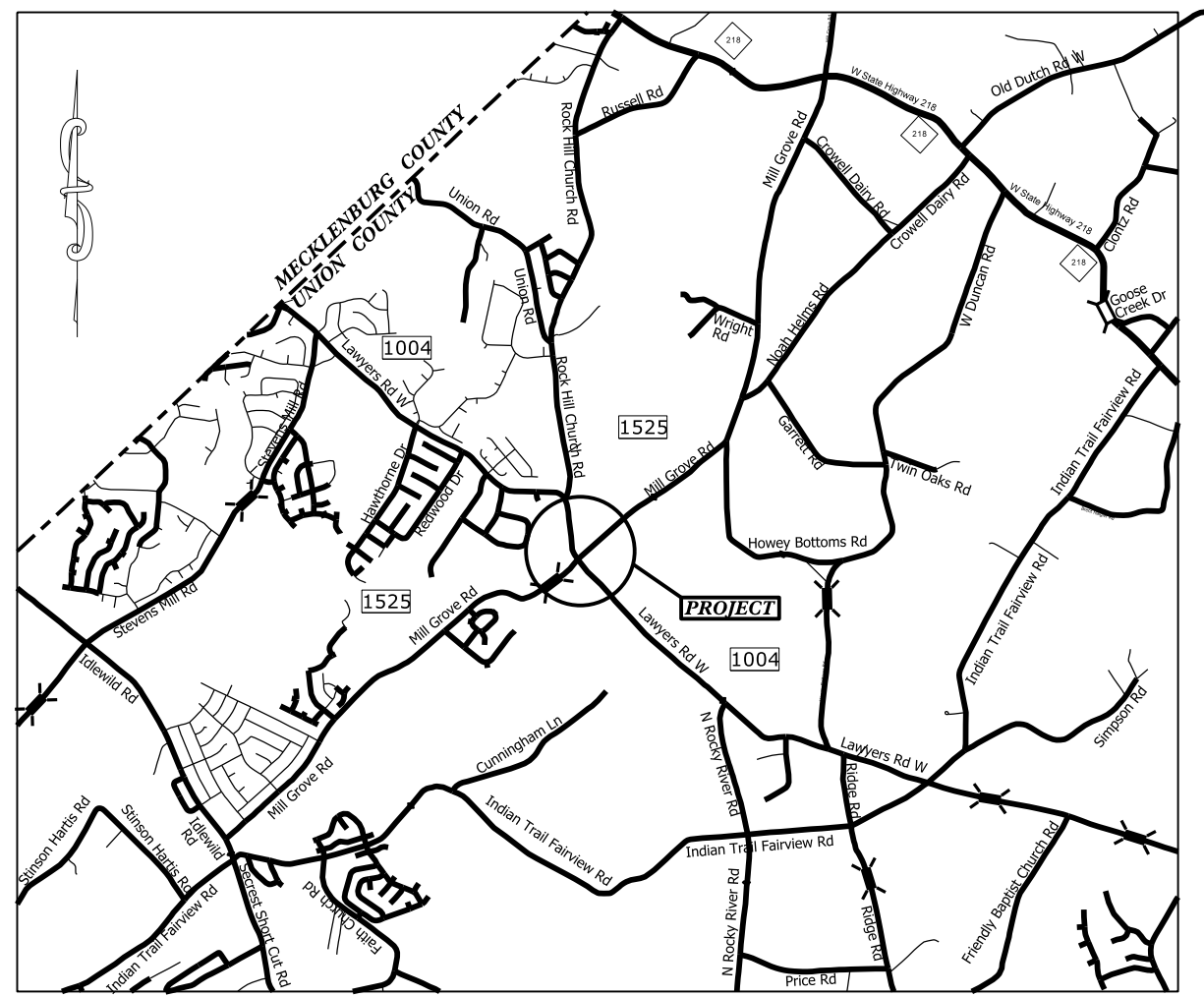
EROSION AND SEDIMENT CONTROL MEASURES

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

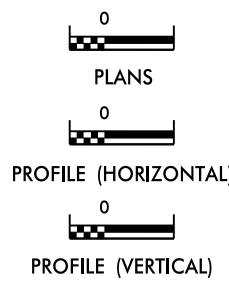
THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT			
High Quality Water Zone(s) Exist			
From Sta.	10+00	to Sta.	10+00
to Sta.	22+21.58	to Sta.	21+28.29
Refer To E. C. Special Provisions for Special Considerations.			

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



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 APRIL 1, 2019 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

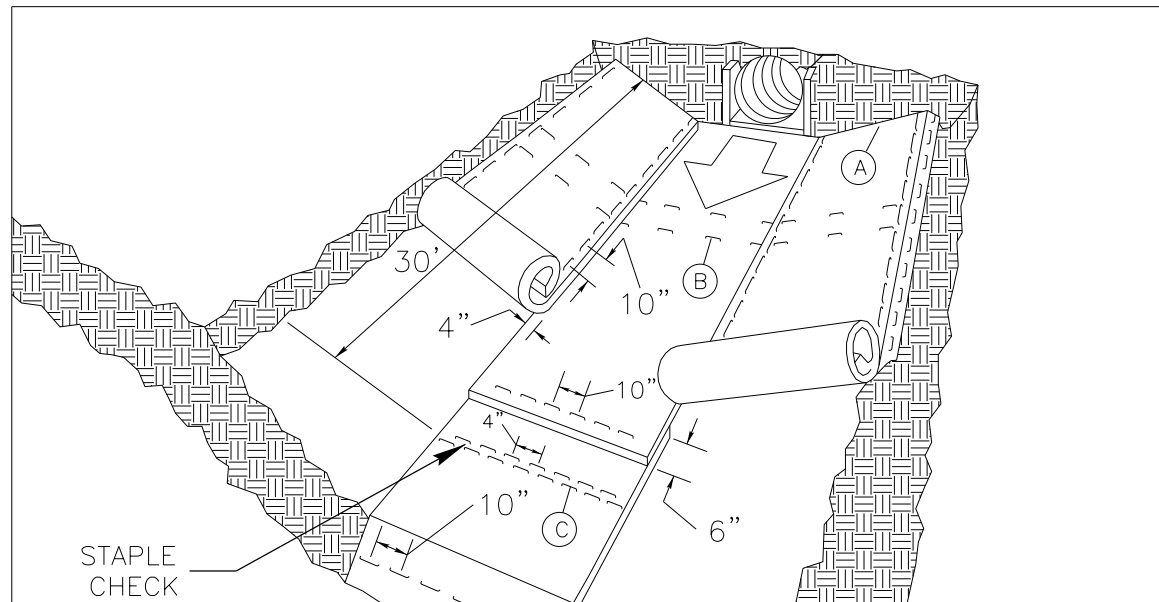
Prepared In the Office of:
DDC UNIT DIVISION 10
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Designed by:
JASON BROOKS 4369
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 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	

MATting INSTALLATION DETAIL

PROJECT REFERENCE NO.	SHEET NO.
44856.3.10	EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATting IN DITCHES

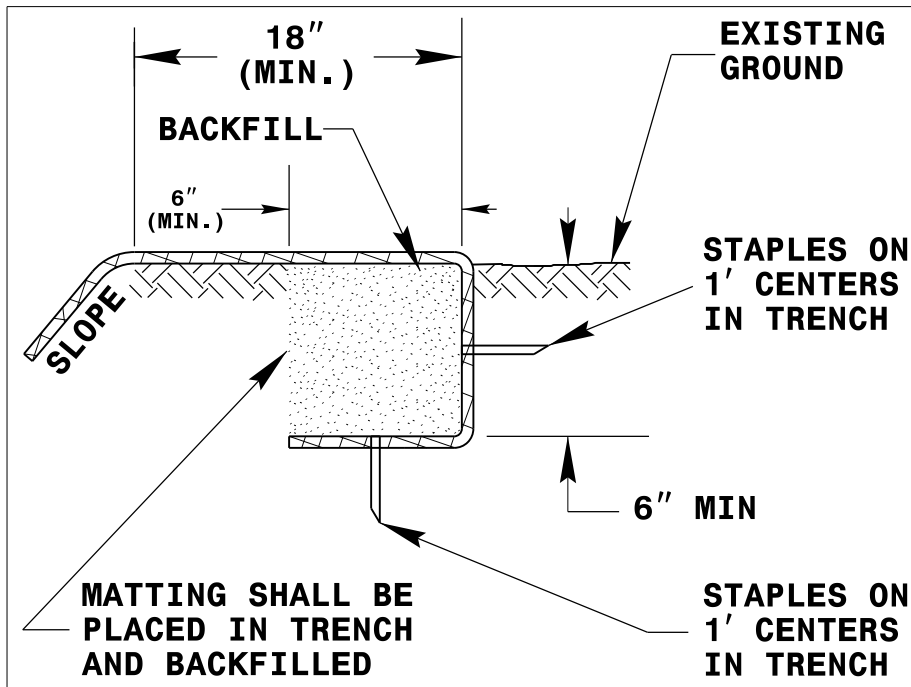
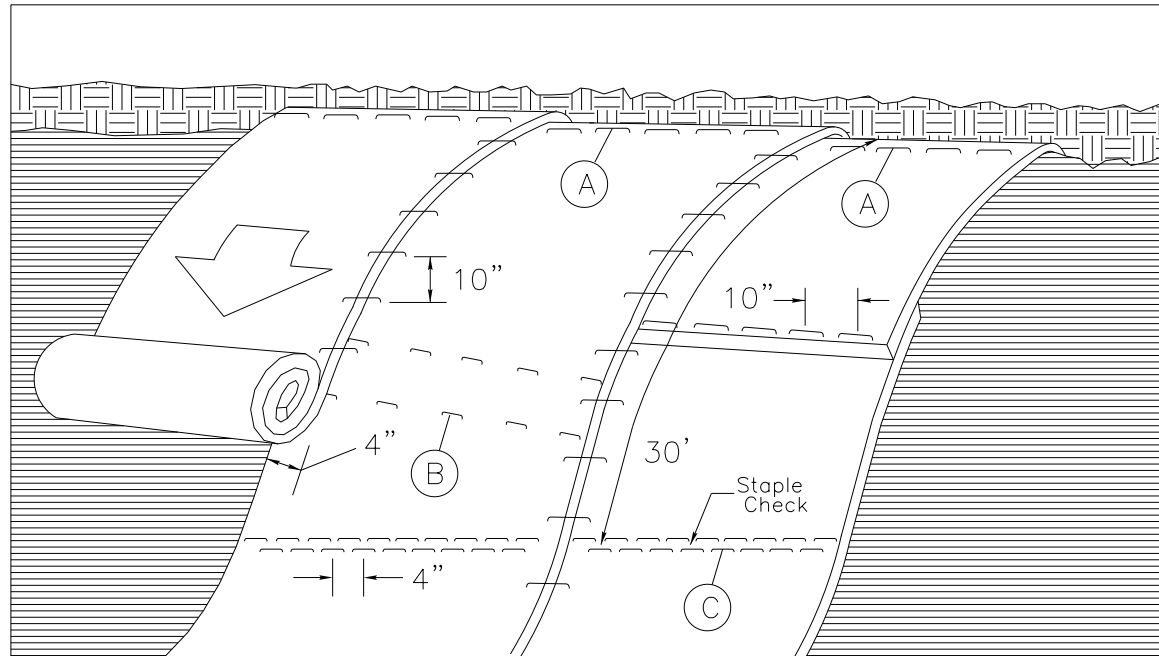


DIAGRAM A



MATting ON SLOPES

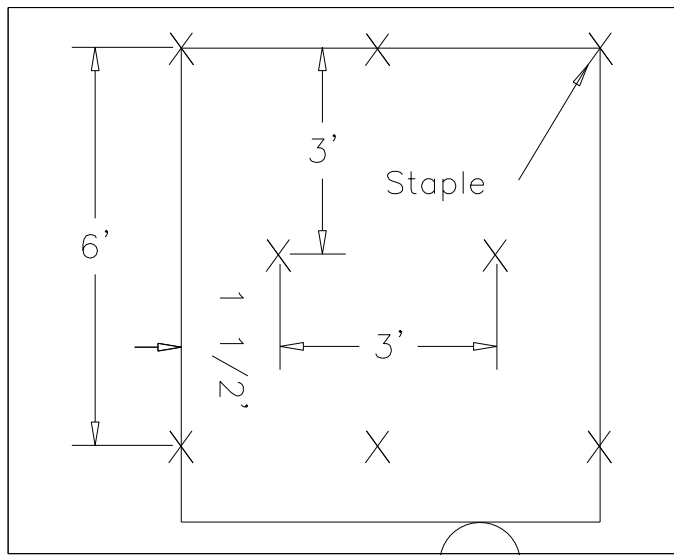


DIAGRAM B

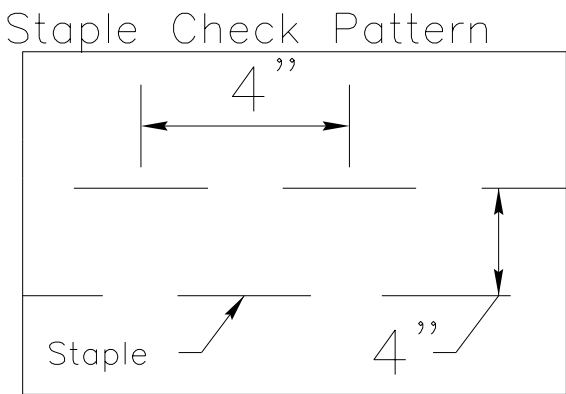


DIAGRAM C

NOTES:

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

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

NOT TO SCALE

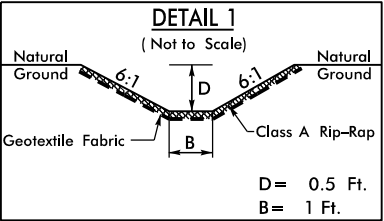
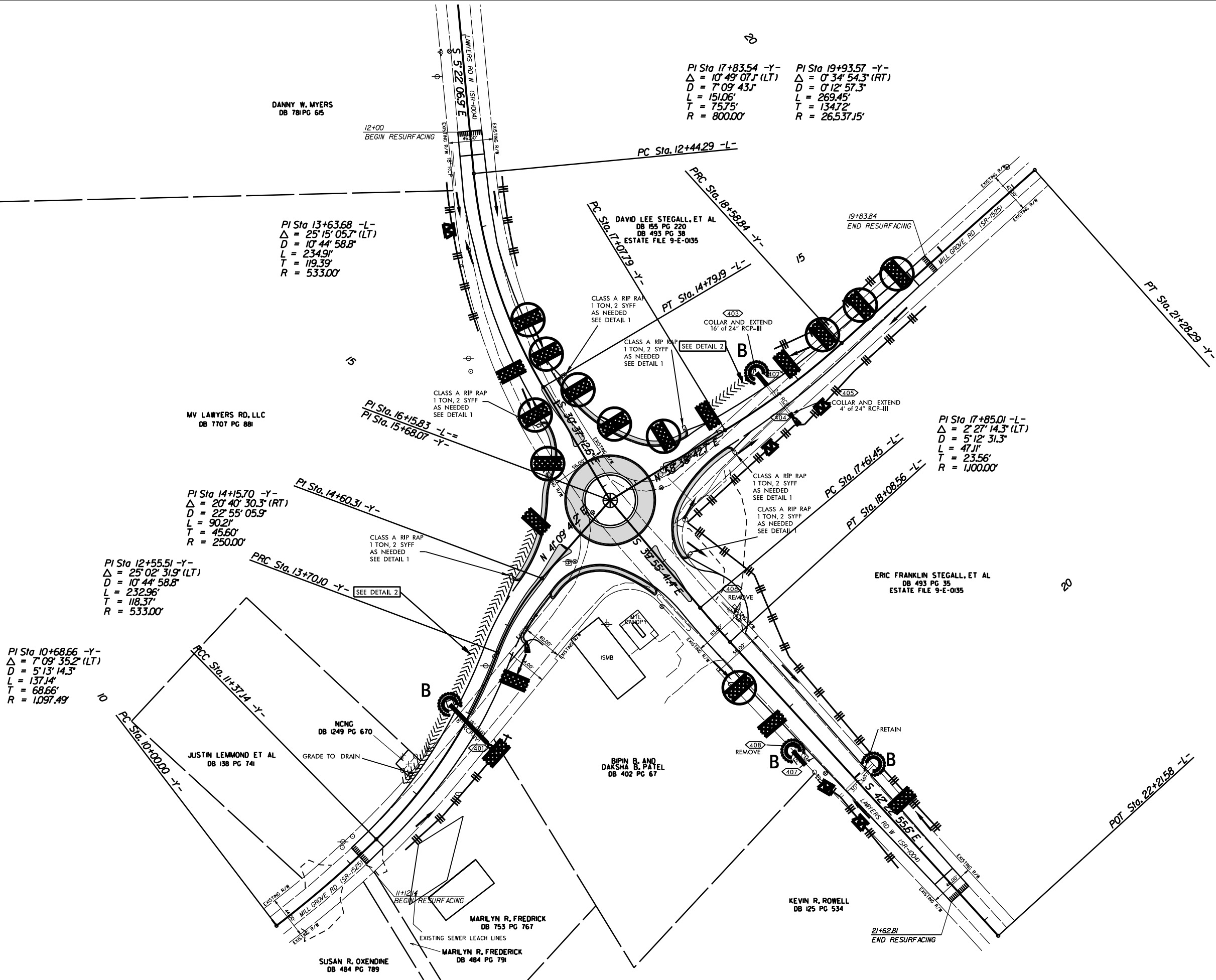
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
44856.3.10	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

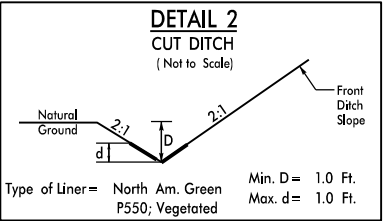
SOIL STABILIZATION TIMEFRAMES

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.

PROJECT NO.	SHEET NO.
44856.3.10	EC-4
F.A. PROJECT NO. HSIP-100410651	



To be placed at the end of Curb Turnouts as directed by the Engineer.

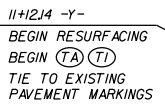


FROM STA. 12+00 -Y- LT TO STA. 15+00 -Y- LT AND STA. 17+00 -Y- LT TO STA. 17+70 -Y- LT

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

ROUNABOUT AT THE INTERSECTION OF
LAWYERS RD. (SR-1004) AND
MILL GROVE RD. (SR-1525)

SCALE	1"=50'		REVISIONS
DATE	9-2019		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		



PAVEMENT MARKING LINES

- PAVEMENT MARKING SYMBOLS

- MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
MC - PERMANENT RAISED MARKER (YELLOW & RED)
MD - PERMANENT RAISED MARKER (YELLOW)
ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)
MG - SNOWPLOWABLE MARKER (YELLOW & RED)
ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
MQ - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)

SCALE	1"=50'		REVISIONS	
DATE	9-2019			
DWG. BY	JCB			
DESIGN BY	JCB			
APPROVED	JDH			



T.I.P.: W-5710J

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
UNION COUNTY

LOCATION: SR 1004 (LAWYERS RD) AT SR 1525 (MILL GROVE RD)
NEAR HEMBY BRIDGE

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 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
910.40	SINGLE/TWO LANE ROUNDABOUT WITH PEDESTRIAN

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	408	L.F.
4096000000	904	SIGN ERECTION, TYPE D	1	EA
4102000000	904	SIGN ERECTION, TYPE E	29	EA
4116100000	904	SIGN ERECTION, RELOCATE TYPE E	1	EA
4115400000	907	STOCKPILE SIGN SYSTEM, U-CHANNEL	2	EA
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	10	EA
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	1	EA

GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

PROJECT NOTES

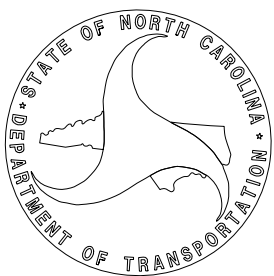
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 RELOCATE SIGN, TYPE E
- 3 DISPOSAL OF SUPPORT, U-CHANNEL
- 4 STOCKPILE SIGN SYSTEM, FLASHER

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE 'E' SIGNS
SIGN-3	SIGN DESIGN DETAILS
SIGN-4	EXISTING SIGNING PLAN SHEET
SIGN-5	PROPOSED SIGNING PLAN SHEET

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

Kelvin L. Jordan SIGNING & DELINEATION REGIONAL ENGINEER
Ashley K. Matthews, PE SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PROJECT REFERENCE NO.
W-5710J

SHEET NO.
SIGN-1

DocuSigned by:
Ashley K. Matthews
40171AA18C834CD...

APPROVED:

DATE: 8/5/2020 | 10:41 AM EDT

SEAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

05/14/20
S:\S&D\Western Region\Div 10\W-5710J\W-5710J_sgn.dgn
User:kmattews

						PROJECT REFERENCE NO. W-5710J	SHEET NO. SIGN-2
						APPROVED: DocuSigned by: Ashley K. Matthews 40171A41BC834CD...	
						DATE: 8/5/2020 10:41 AM EDT	
						SEAL Professional Engineer North Carolina Seal 048105 ASHLEY K. MATTHEWS	
						DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
401 QUANTITY REQ'D 4	406 QUANTITY REQ'D 1						
36 X 36 W2-6 ONE "U" POST PER SIGN	24 X 30 R4-7 ONE "U" POST PER SIGN						
402 QUANTITY REQ'D 2	407 QUANTITY REQ'D 4						
Lawyers Rd 30 X 8 W16-8 SEE DETAIL ON SIGN-3 MOUNT BELOW SIGN 401 IN 2 INSTALLATIONS	30 X 24 R4-6 ONE "U" POST PER SIGN						
403 QUANTITY REQ'D 4	408 QUANTITY REQ'D 2						
36 X 36 W3-2a ONE "U" POST PER SIGN	SPEED LIMIT 45 30 X 36 R2-1 ONE "U" POST PER SIGN						
404 QUANTITY REQ'D 8	409 QUANTITY REQ'D 1						
YIELD 36 X 36 X 36 R1-2 ONE "U" POST PER SIGN	SPEED LIMIT 55 30 X 36 R2-1 ONE "U" POST PER SIGN						
405 QUANTITY REQ'D 2	410 QUANTITY REQ'D 1						
Mill Grove Rd 36 X 8 W16-8 SEE DETAIL ON SIGN-3 MOUNT BELOW SIGN 401 IN 2 INSTALLATIONS	18 X 18 OM1-3 MOUNT BELOW SIGN 406 IN 1 INSTALLATIONS					TYPE "E" SIGNS	

SEAL

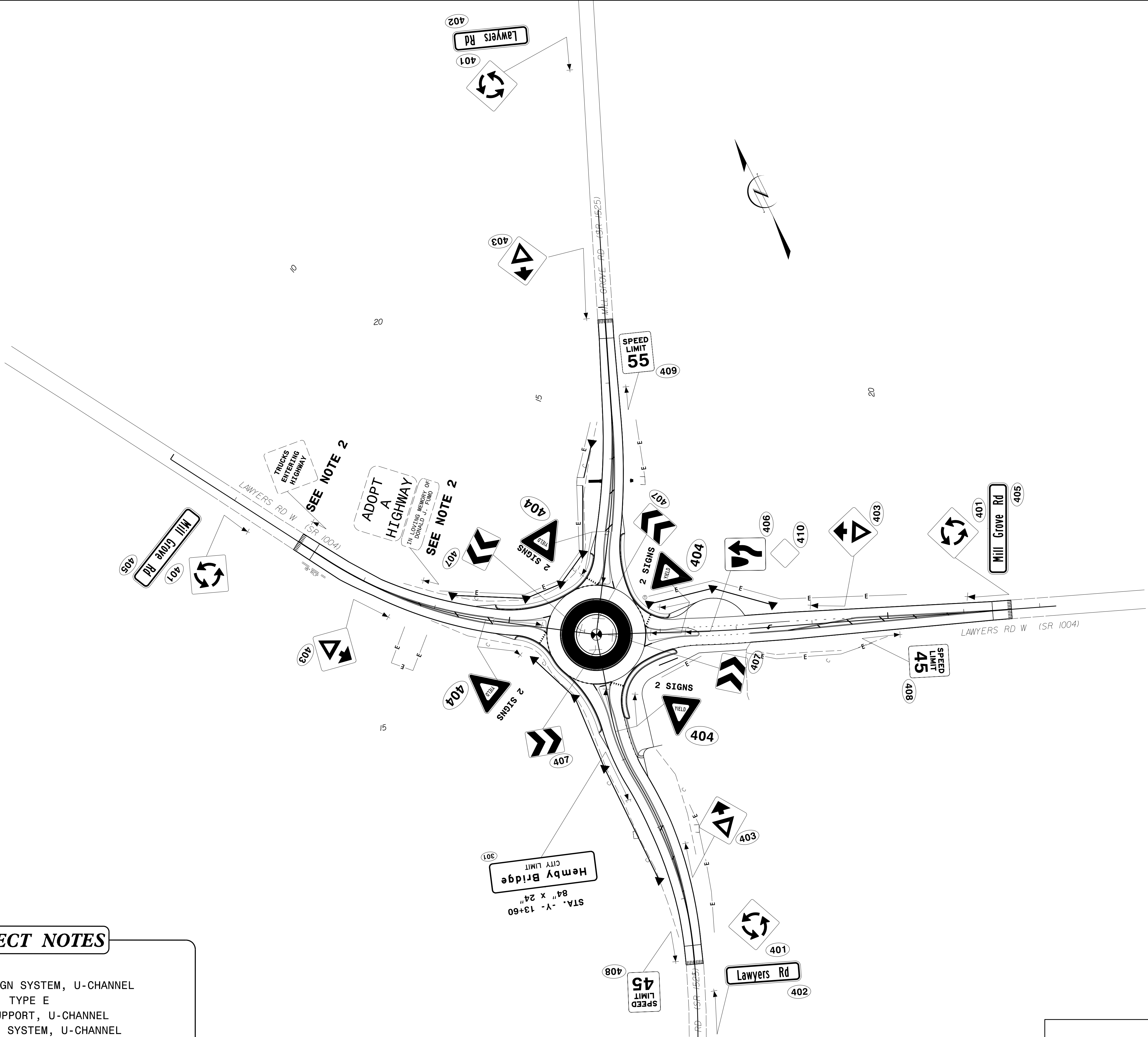


**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

[illegible]

PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 RELOCATE SIGN, TYPE E
- 3 DISPOSAL OF SUPPORT, U-CHANNEL
- 4 STOCKPILE SIGN SYSTEM, U-CHANNEL



PROJECT REFERENCE NO. W-5710J	SHEET NO. SIGN-5
APPROVED: <i>Asley E. Matthews</i> 40171AA1BC834CD	
DATE: 8/5/2020 10:41 AM EDT	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PROPOSED SIGNS

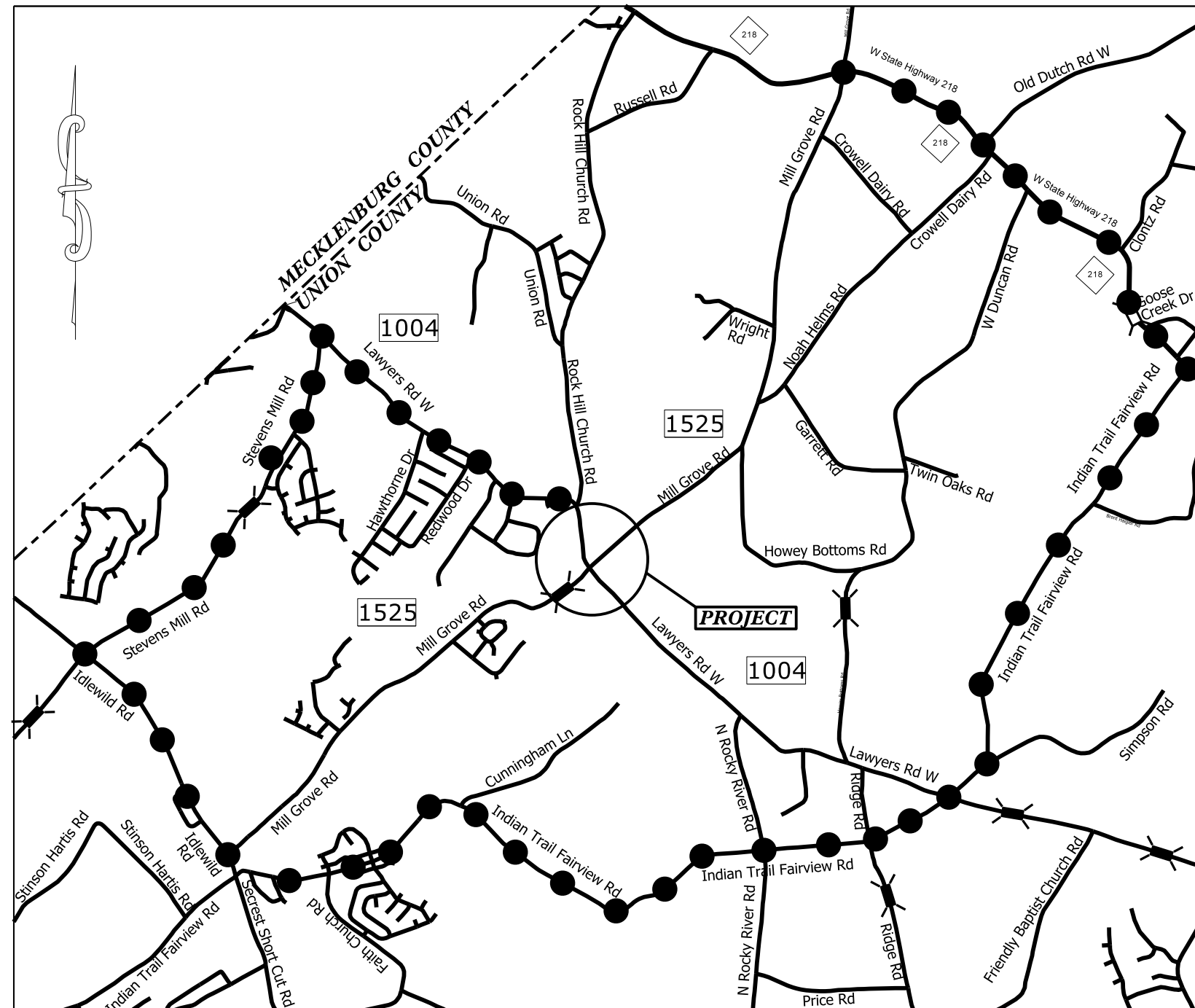
OFFSITE DETOUR

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

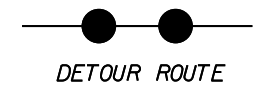
PROJECT NO.	SHEET NO.
44856.3.10	TCP-1
F.A. PROJECT NO. HSIP-1004(1065)	

ROADWAY DESIGN
ENGINEER

SEAL
034357
JCB
JCB
A92E75CC0FFB43E



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

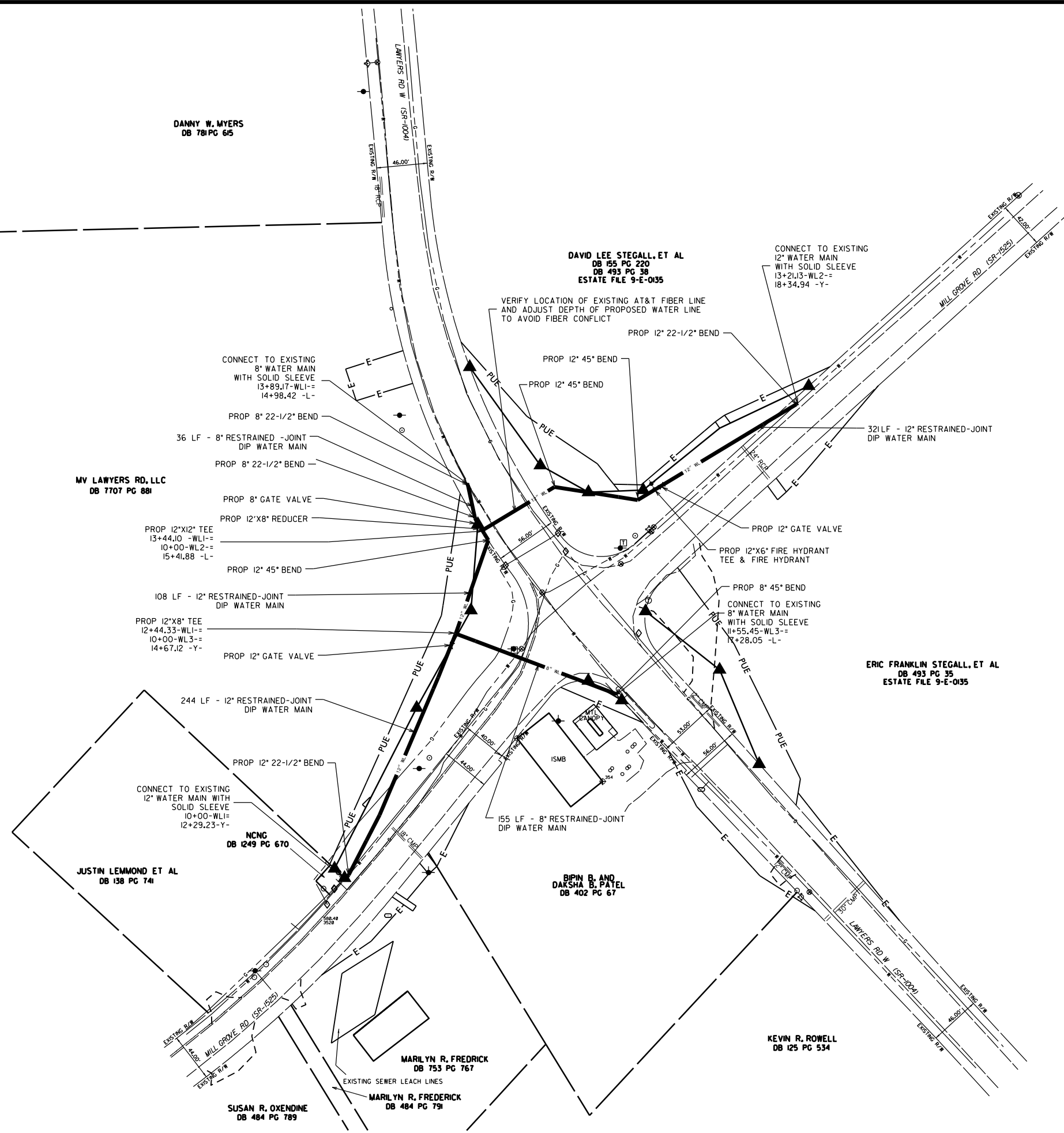


DETOUR ROUTE

ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

SCALE	N/A		REVISIONS	
DATE	9-2020			
DWG. BY	JCB			
DESIGN BY	JCB			
APPROVED	JDH			

PROJECT NO.	SHEET NO.
44856.3.10	UC-1
F.A. PROJECT NO. HSIP-1004(065)	



GENERAL NOTES:

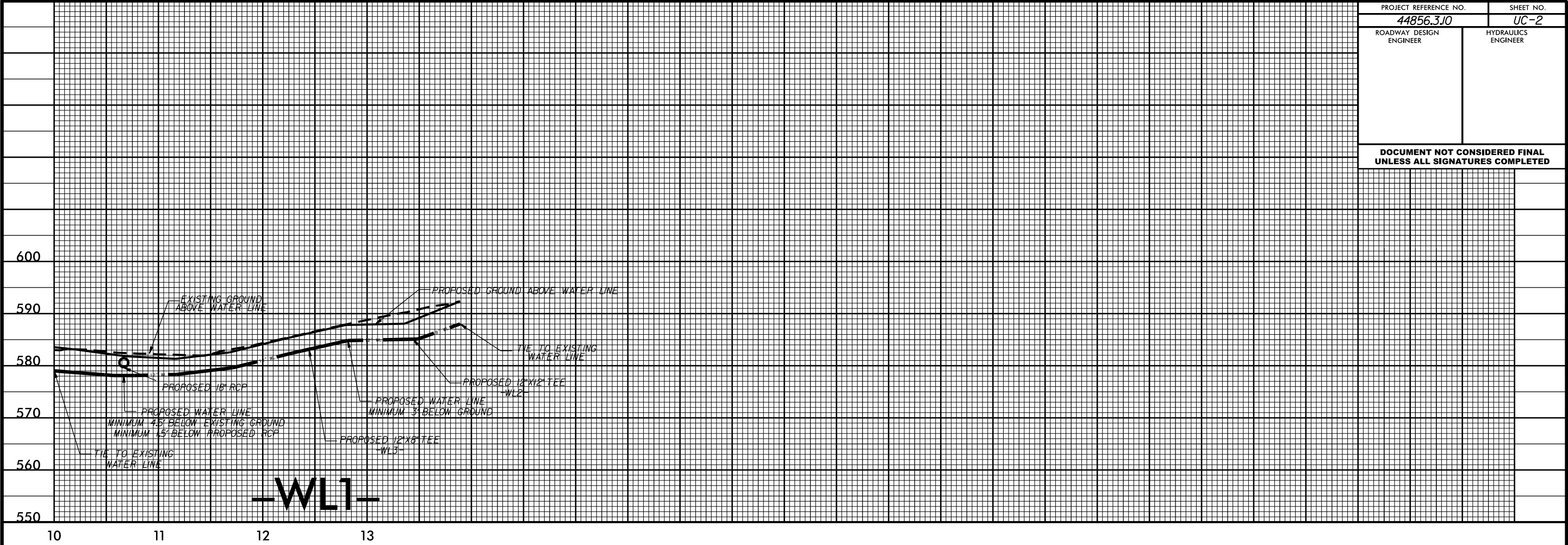
- CONTACT MICHAEL CALDWELL OF UNION COUNTY PUBLIC WORKS 72 HOURS PRIOR TO BEGINNING WORK ON THIS PROPOSED WATER MAIN AT (704) 968-4150.
- PRIOR TO WATER LINE CONSTRUCTION, THE CONTRACTOR MUST SUBMIT TO UNION COUNTY THE PROPOSED UTILITY MATERIAL SUBMITTALS AND SHOP DRAWINGS, AS APPLICABLE FOR REVIEW AND OBTAIN UNION COUNTY APPROVAL OF UTILITY MATERIAL SUBMITTALS AND SHOP DRAWINGS.
- WATER VALVES ARE TO BE OPERATED BY UNION COUNTY PUBLIC WORKS STAFF.
- THE PROPOSED WATER LINE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018; UNION COUNTY'S "SANITARY SEWER AND WATER SPECIFICATIONS" AND "STANDARD DETAILS" - REVISION *6 DATED NOVEMBER 2014; AND THE NOTES AND DETAILS PROVIDED IN THE CONSTRUCTION PLANS.
- WATER PIPE IS TO BE PC 350 DUCTILE IRON PIPE.
- ENTIRE LENGTH OF RELOCATED WATER MAIN MUST BE RESTRAINED JOINT.
- ALL SLEEVES MUST BE OF THE RESTRAINED JOINT TYPE.
- FIELD-LOCKING GASKETS ARE ALLOWABLE AS RESTRAINING DEVICES FOR WATER PIPE.
- CONTRACTOR IS TO USE TEMP. PLUGS AND BLOW OFFS FOR TESTING & DISINFECTION.
- DUE TO FOUR REQUIRED TIE-INS, CONTRACTOR TO COORDINATE WITH UNION COUNTY FIELD REPRESENTATIVE TO DEVISE A PLAN FOR SYSTEMATIC TIE-INS TO MINIMIZE WATER SERVICE OUTAGES.
- 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.
- CONTRACTOR SHALL PROVIDE A PLAN FOR BLOCKING AT ALL TIE-IN LOCATIONS. PLAN MUST BE APPROVED BY UNION COUNTY REPRESENTATIVE PRIOR TO PERFORMING WORK.
- 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.
- WATER FOR TESTING WILL BE PROVIDED BY UNION COUNTY. TEST SHALL BE REPEATED UNTIL TEST RESULTS ARE SATISFACTORY.
- SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY UNION COUNTY PERSONNEL AND TESTED AT K&W LABORATORIES IN MIDLAND, NC. SAMPLES WILL TYPICALLY BE COLLECTED ONLY ON WEDNESDAYS. EACH SAMPLE WILL COST \$50.00 TO TEST. PAYABLE BY CONTRACTOR. REQUEST FOR SAMPLES COLLECTION MUST BE MADE AT LEAST 48 HOURS IN ADVANCE OF THE SAMPLE COLLECTION - COORDINATE WITH UNION COUNTY FIELD REPRESENTATIVE. SAMPLE RESULTS WILL BE AVAILABLE NO SOONER THAN 24 HOURS AFTER THE SAMPLES ARE DELIVERED TO THE LAB.

ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD. (SR-1004) AND
MILL GROVE RD. (SR-1525)

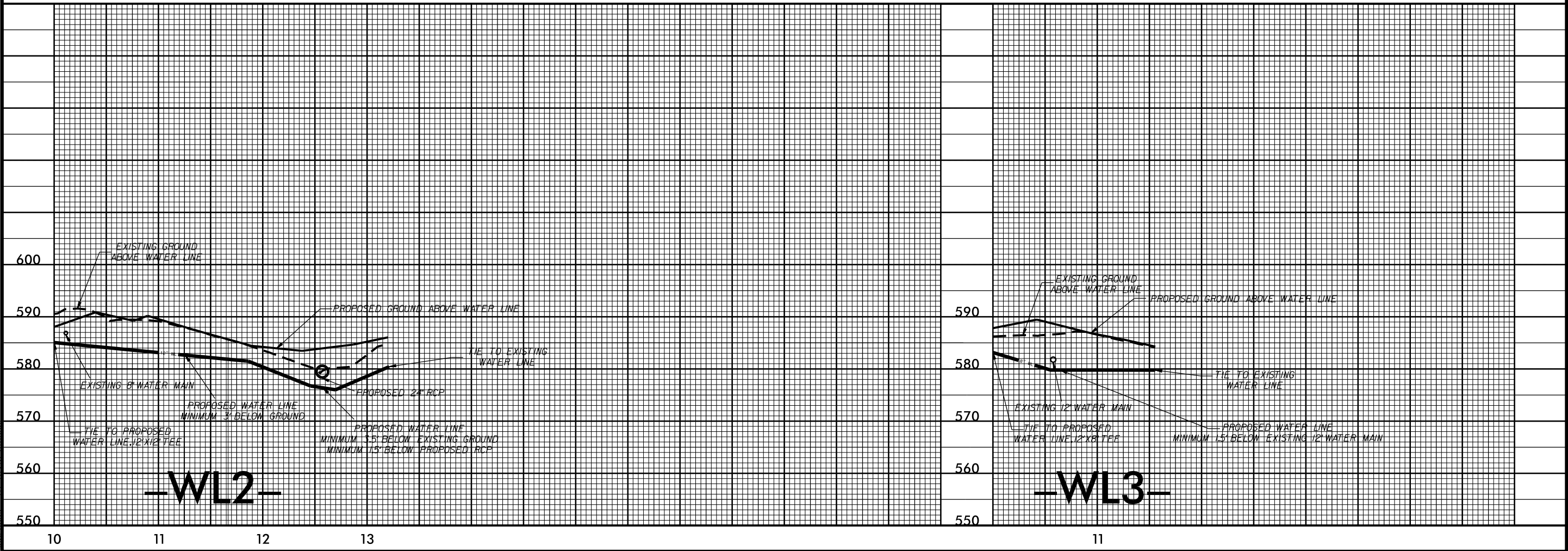
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DATE	2-2020		
DWG. BY	JCB		
DESIGN BY	JDH		
APPROVED	JDH		

5/28/99

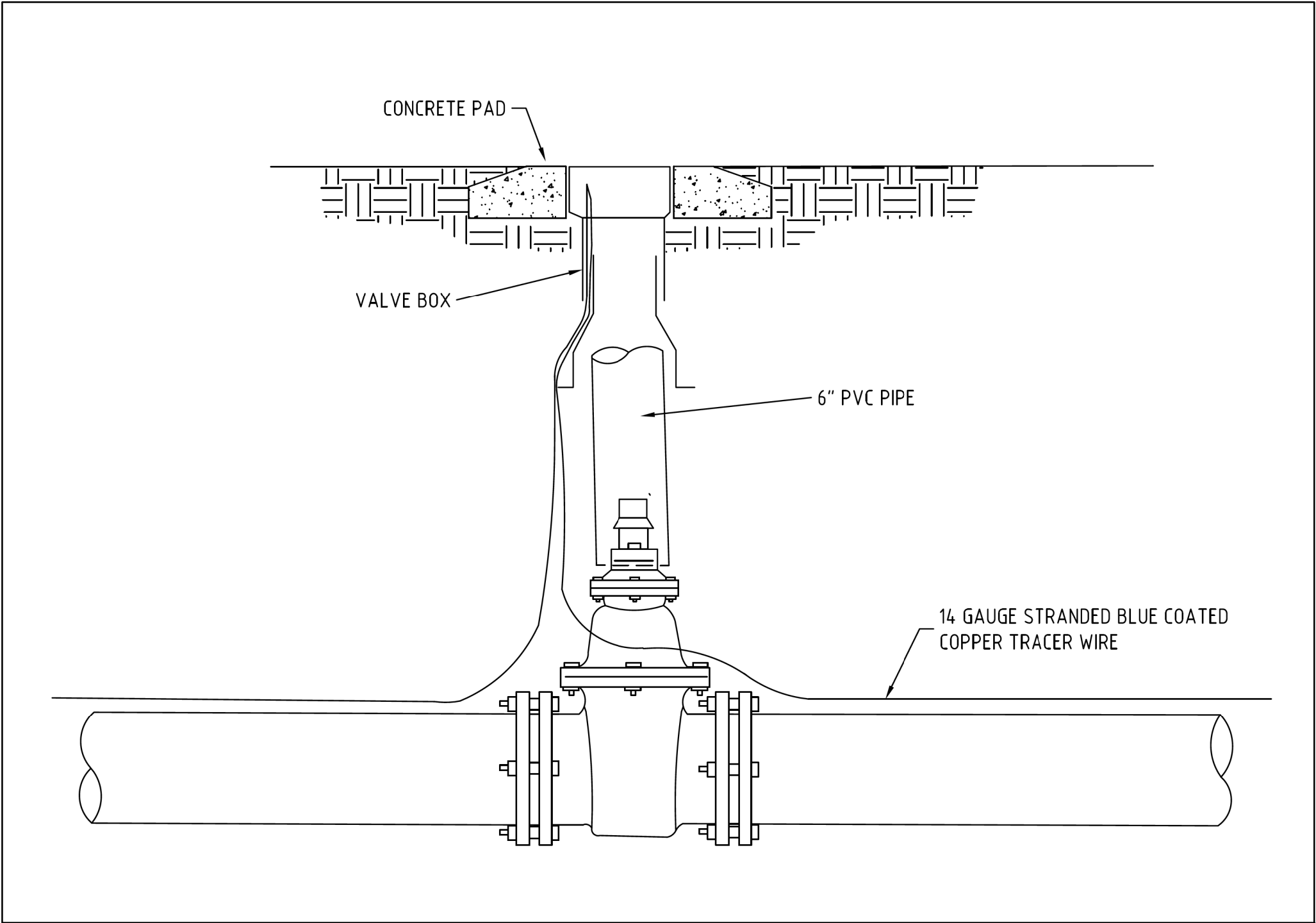
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ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



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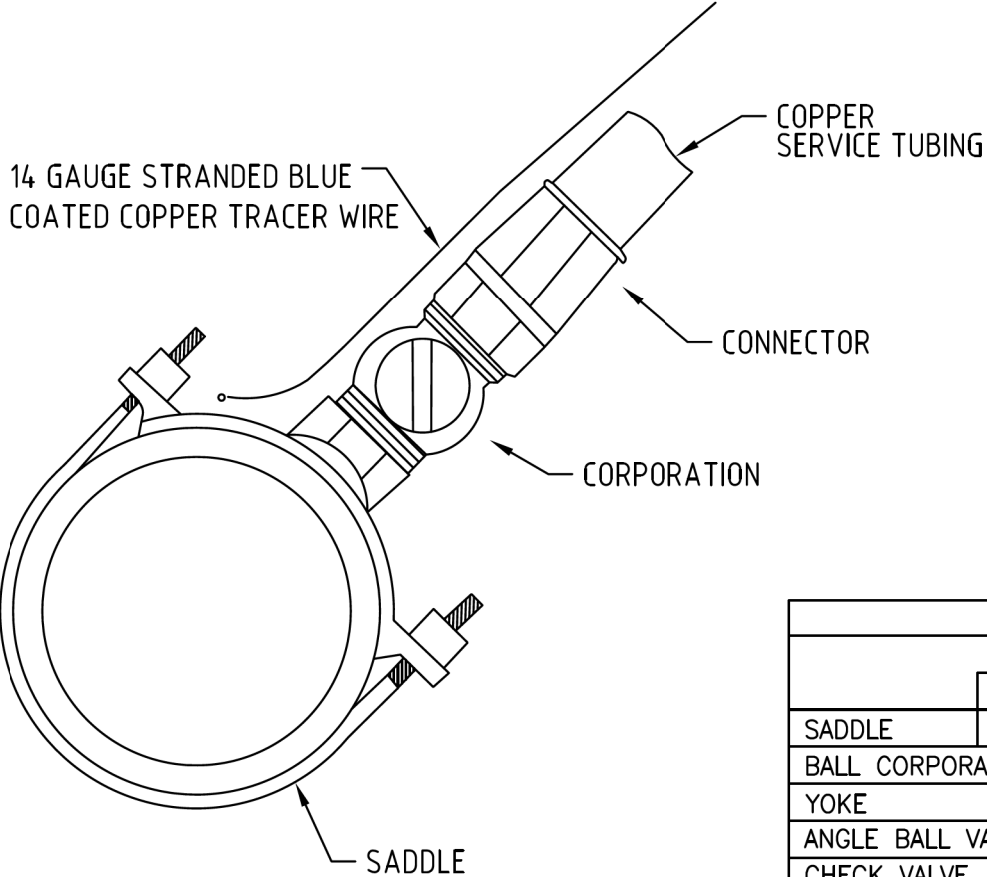


PROJECT NO.	SHEET NO.
44856.3.10	UC-3A
F.A. PROJECT NO. HSIP-1004(065)	



UNION COUNTY PUBLIC WORKS DEPARTMENT UNION COUNTY, N.C.	STANDARD DETAIL	SCALE: N.T.S.	1A
	VALVE BOX INSTALLATION	DATE: 10-4-11	

ROUNDABOUT AT THE INTERSECTION OF LAWYERS RD.(SR-1004) AND MILL GROVE RD.(SR-1525)			REVISIONS	
SCALE	1"=50'			
DATE	6-2022			
DWG. BY	TBL			
DESIGN BY	TBL			
APPROVED	JDH			



APPROVED SERVICE HARDWARE			
		MUELLER	FORD
	2"PVC	H-13420	S70
SADDLE	UP TO 8"	SEE NOTE	FC 101
BALL CORPORATION		B-25008	FB1000G
YOKE		H-5020	Y 502
ANGLE BALL VALVE		B-24273	BA94-323WG
CHECK VALVE		H-14247-A	HHS91-323
CONNECTORS	COPPER	STYLE 110	GRIP JOINT
EXPANSION CONNECTION			EC 23

NOTE:
ROMAC 101N SHALL REPLACE MUELLER FOR PIPE
DIAMETER UP TO 8"

SMITH BLAIR 317, FORD FC 202 OR ROMAC 202N SHALL
REPLACE MUELLER FOR PIPE DIA. 12" AND UP

UNION COUNTY PUBLIC WORKS DEPARTMENT
UNION COUNTY, N.C.

STANDARD DETAIL

SERVICE CONNECTION

SCALE:
N.T.S.
DATE:
10-4-11

5

ROUNDABOUT AT THE INTERSECTION OF
LAWYERS RD.(SR-1004) AND
MILL GROVE RD.(SR-1525)

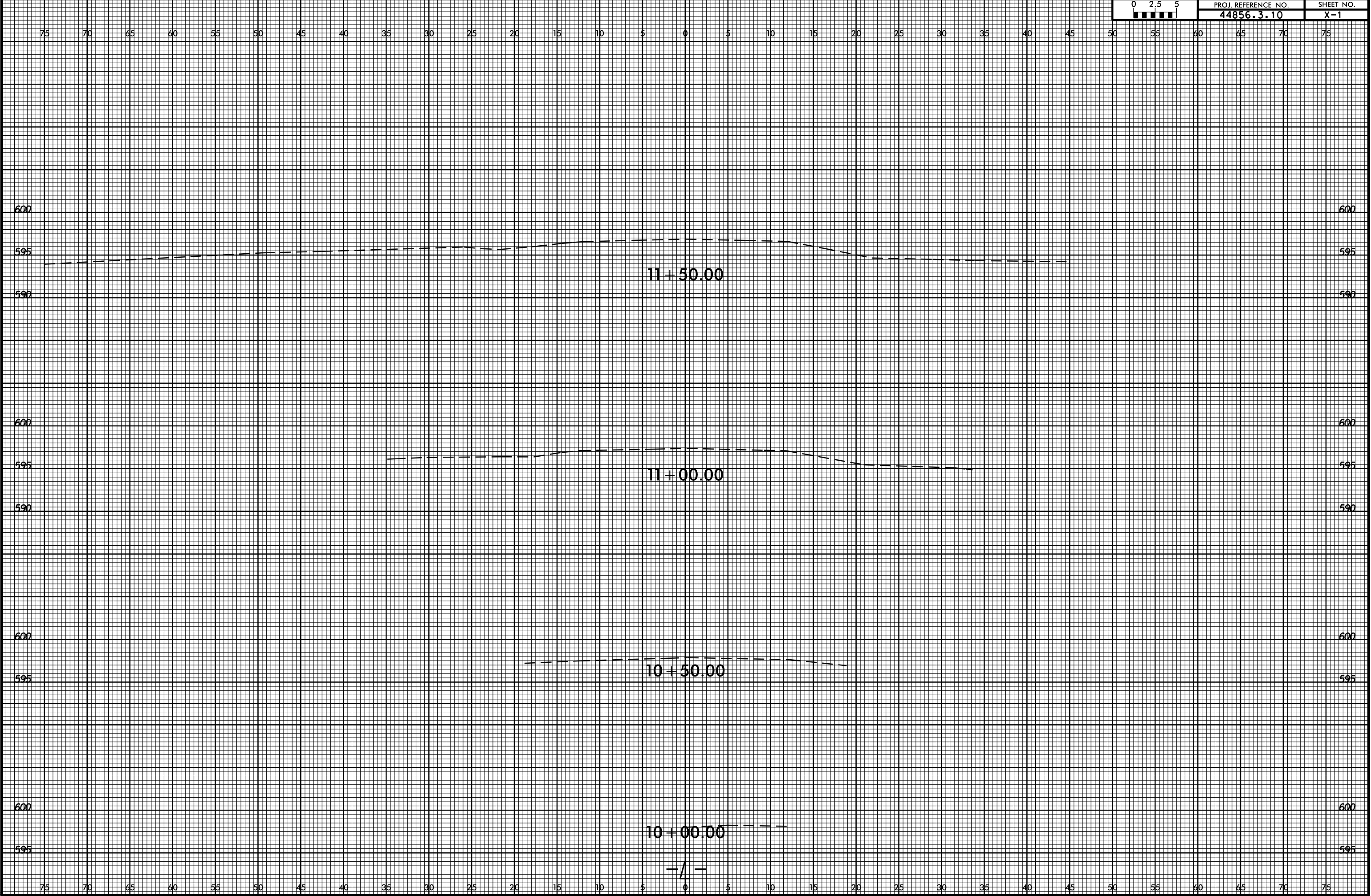
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DATE 6-2022
DWG. BY TBL
DESIGN BY TBL
APPROVED JDH

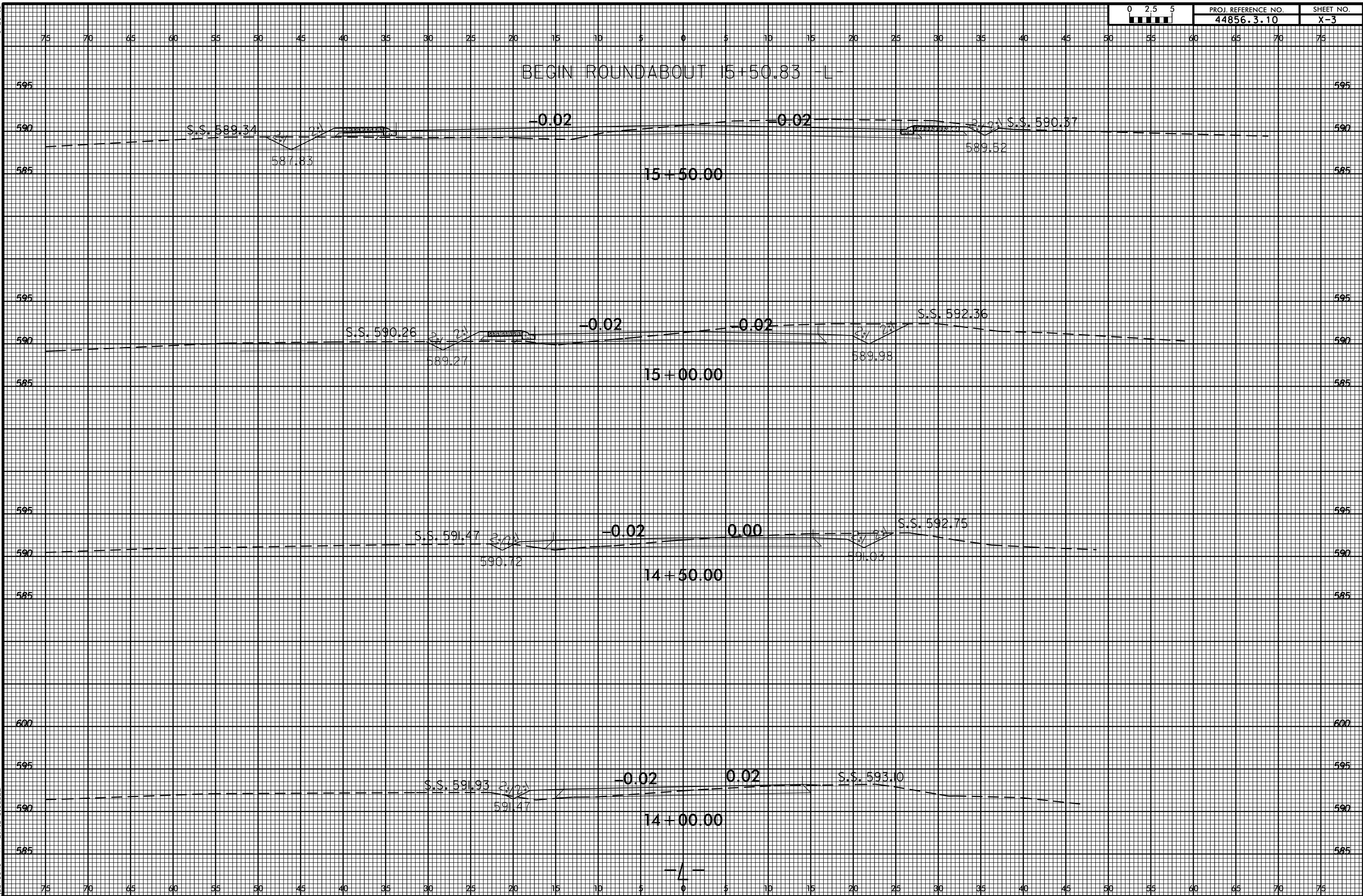


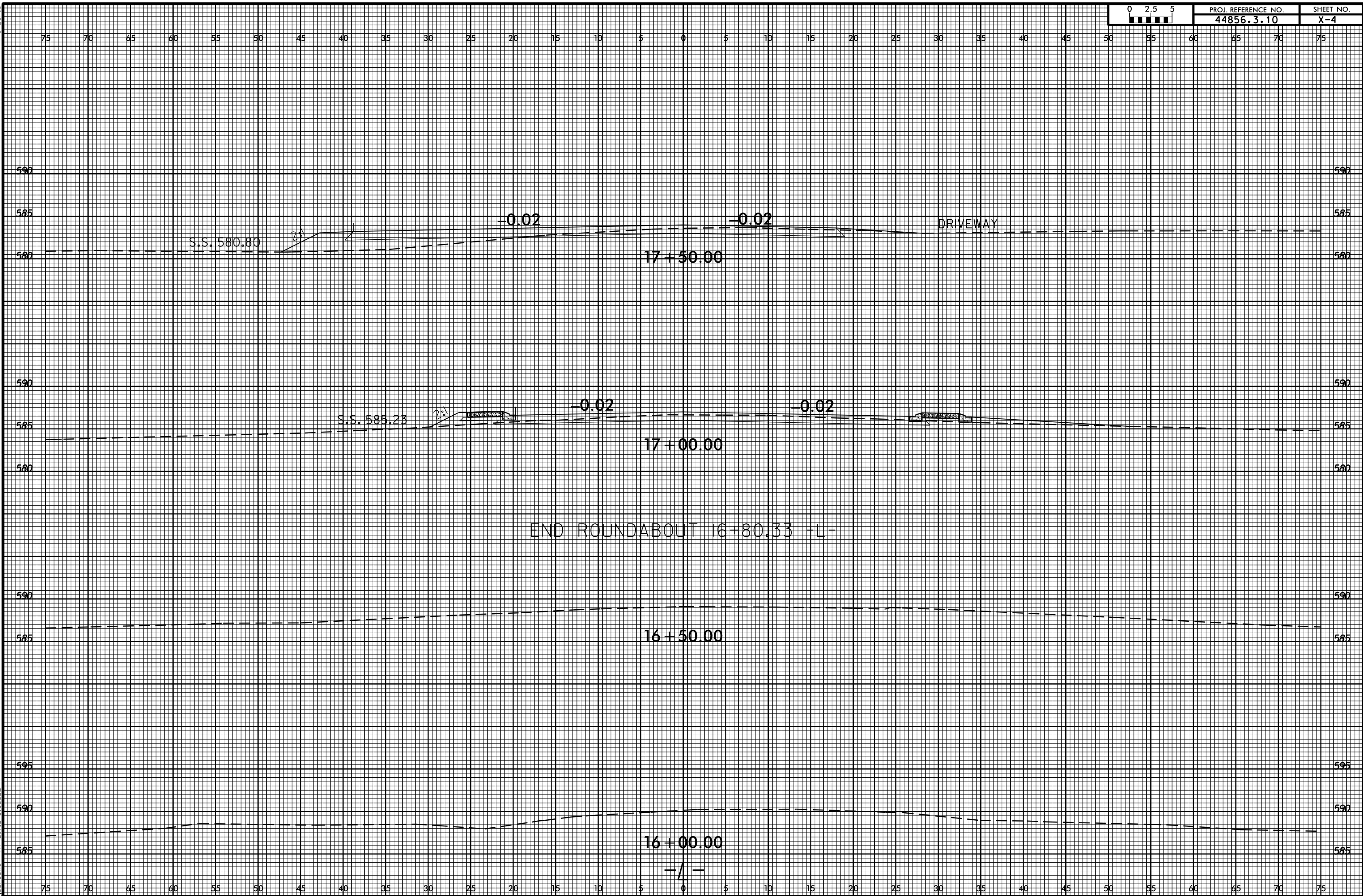
REVISIONS

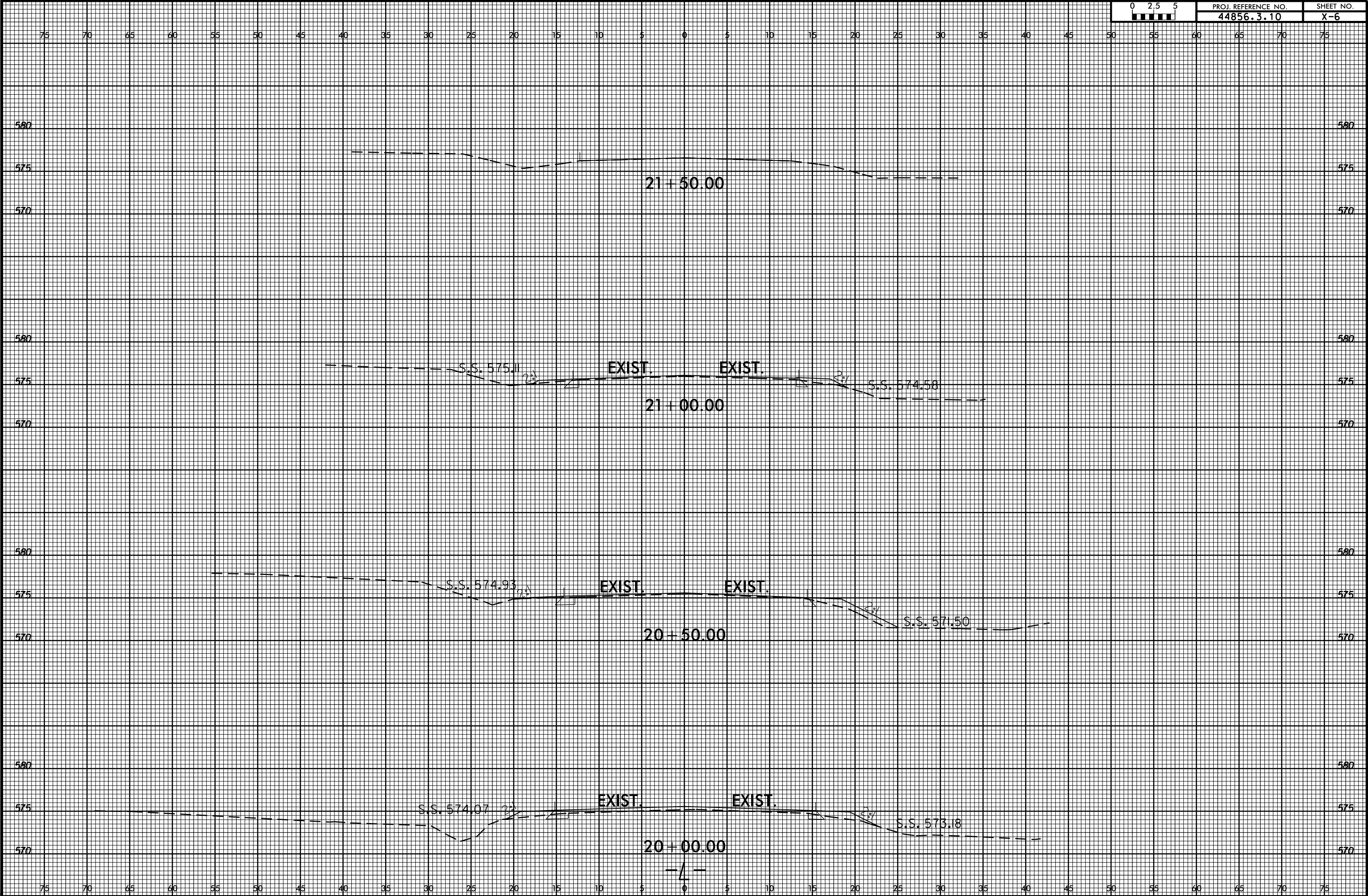
6/23/16

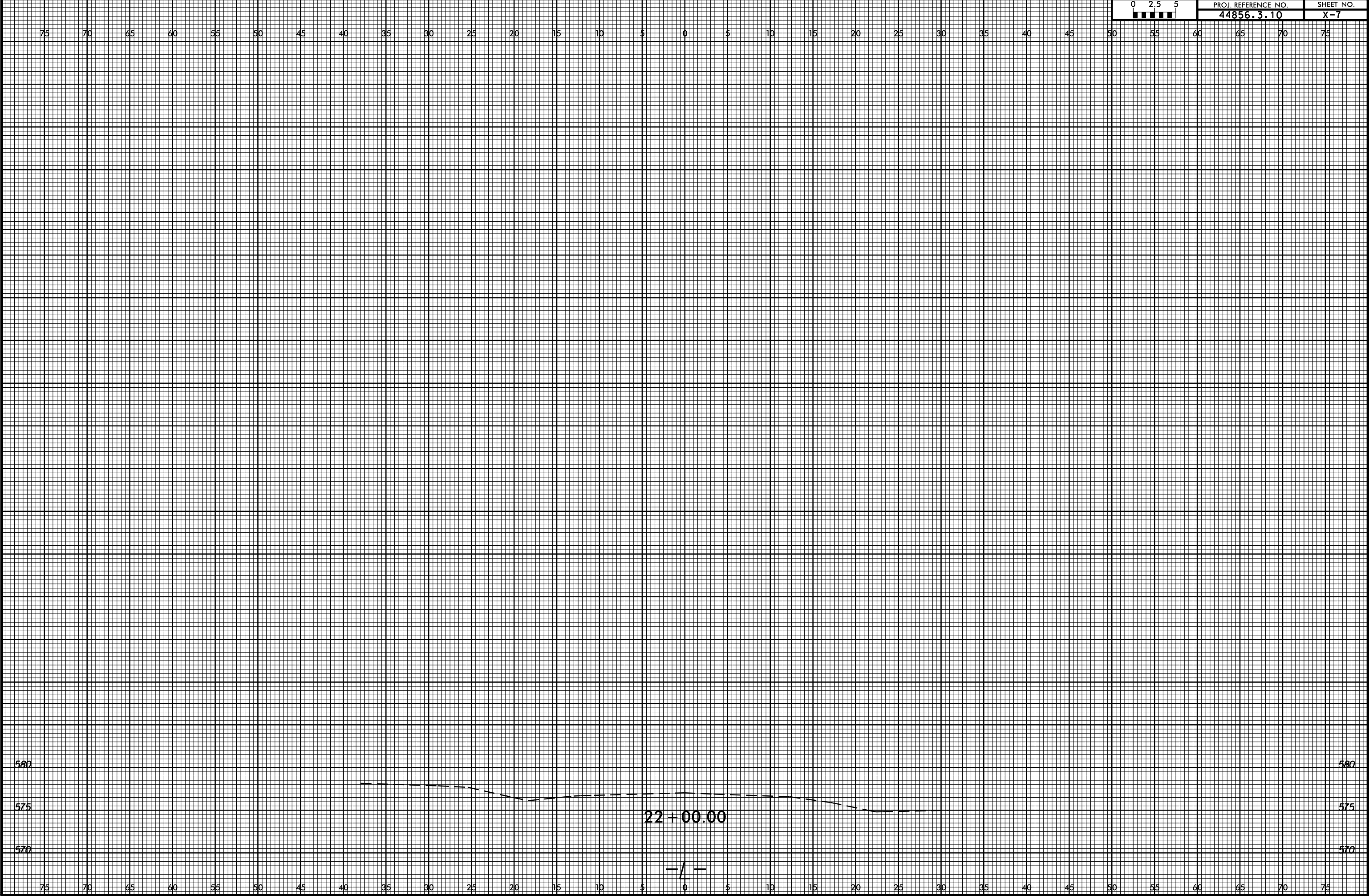
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icbrooks



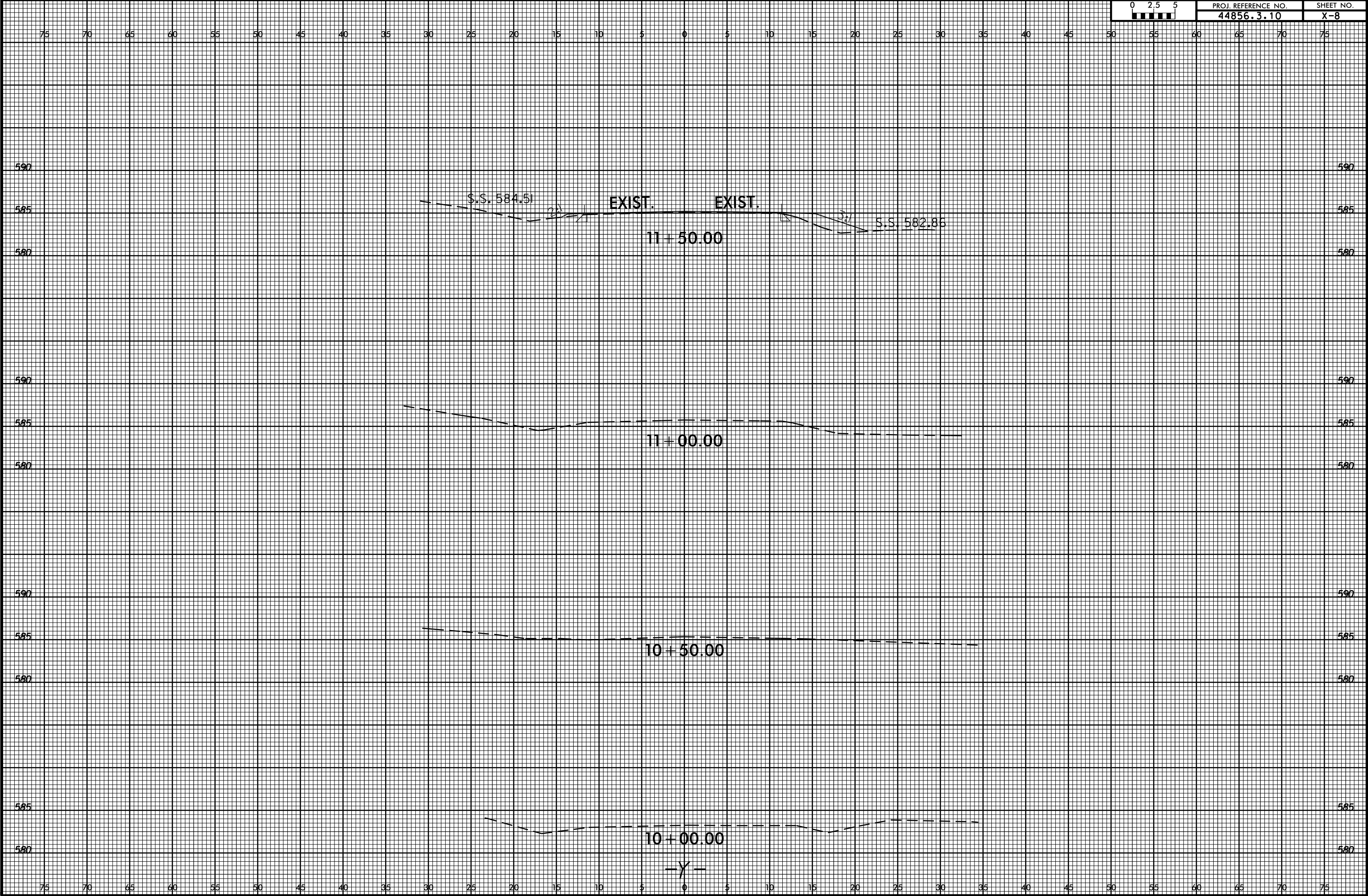








6/23/16



6/23/16

