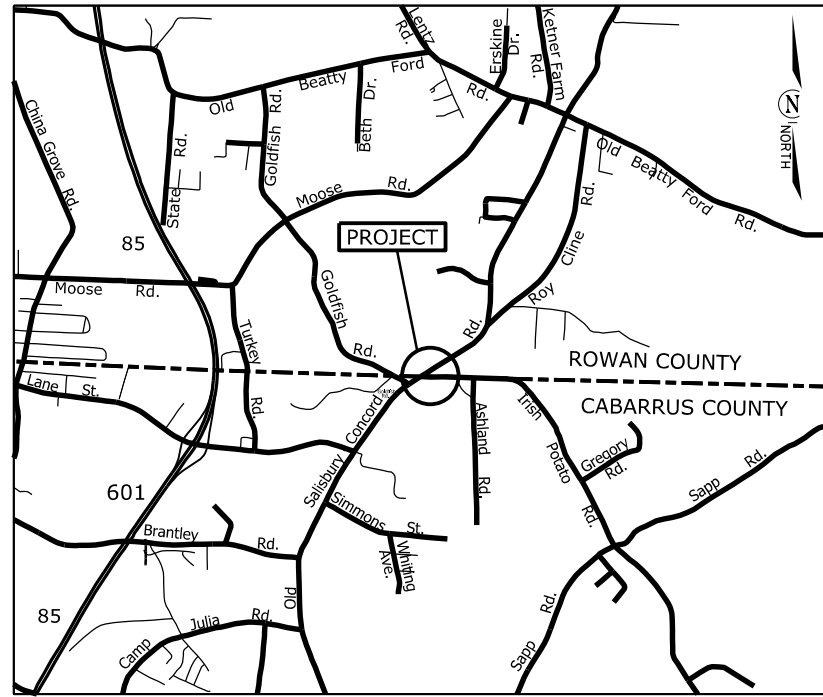


PROJECT: 44856.3.43 TIP: W-5710AO



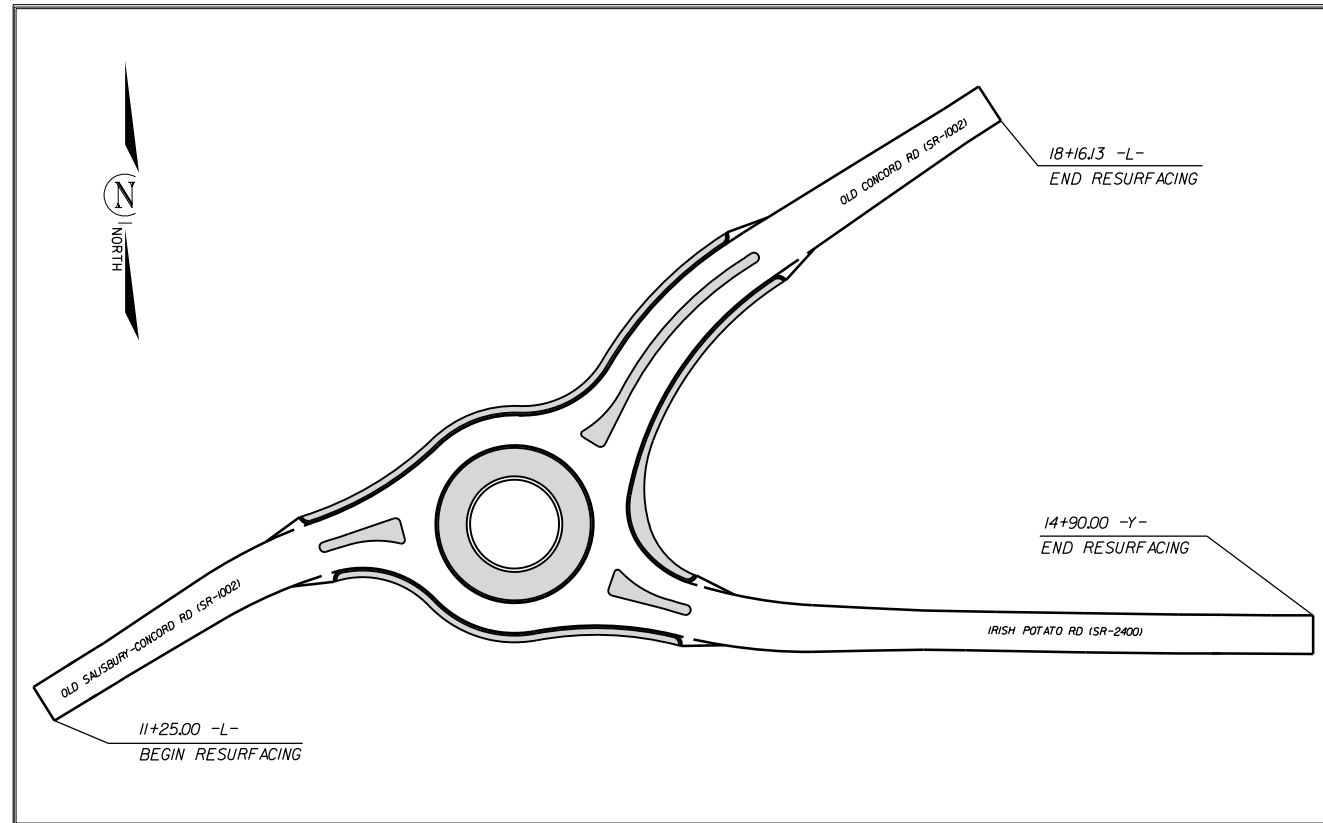
VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CABARRUS COUNTY

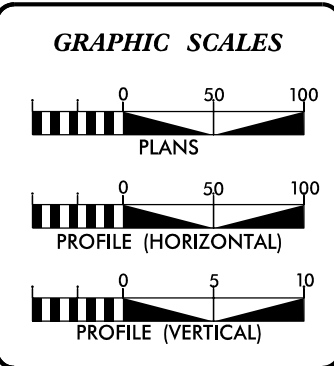
LOCATION: INTERSECTION OF OLD CONCORD RD. (SR-1002 MILE MARKER 0.06-CABARRUS TO 28.45-ROWAN)
AND IRISH POTATO RD. (SR-2400 MILE MARKER 0.00 TO 0.13-CABARRUS)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CONCRETE MONOLITHIC ISLANDS, CONCRETE CURB AND GUTTER, AND THERMOPLASTIC PAVEMENT MARKINGS

STATE	STATE PROJECT REFERENCE NO.	PROJECT NO.	TOTAL SHEETS
N.C.	W-5710AO	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44856.1.43	HSIP-1002(056)	P.E.	
44856.2.43	HSIP-1002(056)	R/W	
44856.3.43	HSIP-1002(056)	CONST.	



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



DESIGN DATA

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

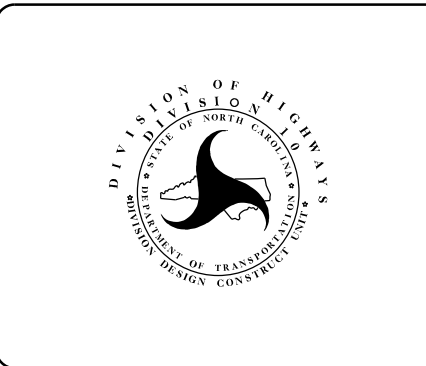
PROJECT LENGTH

LENGTH OF ROADWAY PROJECT	0.22	=	0.22	MILES
TOTAL LENGTH OF STATE PROJECT	0.22	=	0.22	MILES

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 9, 2023	DONALD HARWARD PROJECT ENGINEER
LETTING DATE: DECEMBER 6, 2023	JASON BROOKS PROJECT DESIGN ENGINEER



ROADWAY DESIGN ENGINEER
10/11/2023

DocuSign
Travis Preelor
A53C1ACTA1FF47B...

SIGNATURE

12/2021/01/19

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

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	-----	-----
County Line	-----	-----
Township Line	-----	-----
City Line	-----	-----
Reservation Line	-----	-----
Property Line	-----	-----
Existing Iron Pin (EIP)	-----	⊙
Computed Property Corner	-----	X
Existing Concrete Monument (ECM)	-----	⊠
Parcel/Sequence Number	-----	123
Existing Fence Line	-----	-x-x-x-
Proposed Woven Wire Fence	-----	○
Proposed Chain Link Fence	-----	□
Proposed Barbed Wire Fence	-----	◇
Existing Wetland Boundary	-----	WLB
Proposed Wetland Boundary	-----	WLB
Existing Endangered Animal Boundary	-----	EAB
Existing Endangered Plant Boundary	-----	EPB
Existing Historic Property Boundary	-----	HPB
Known Contamination Area: Soil	-----	⊗-s-⊗-s-
Potential Contamination Area: Soil	-----	⊗-s-⊗-s-
Known Contamination Area: Water	-----	⊗-w-⊗-w-
Potential Contamination Area: Water	-----	⊗-w-⊗-w-
Contaminated Site: Known or Potential	-----	☠ ?

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

Stream or Body of Water	-----	-----
Hydro, Pool or Reservoir	-----	-----
Jurisdictional Stream	-----	JS
Buffer Zone 1	-----	BZ 1
Buffer Zone 2	-----	BZ 2
Flow Arrow	-----	←
Disappearing Stream	-----	→
Spring	-----	⊙
Wetland	-----	⊗
Proposed Lateral, Tail, Head Ditch	-----	-----
False Sump	-----	-----

RAILROADS:

Standard Gauge	-----	-----
RR Signal Milepost	-----	-----
Switch	-----	-----
RR Abandoned	-----	-----
RR Dismantled	-----	-----

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	-----	⬡
Primary Horiz and Vert Control Point	-----	⬢
Secondary Horiz and Vert Control Point	-----	⬢
Vertical Benchmark	-----	⊠
Existing Right of Way Monument	-----	⬡
Proposed Right of Way Monument (Rebar and Cap)	-----	▲
Proposed Right of Way Monument (Concrete)	-----	⬢
Existing Permanent Easement Monument	-----	◇
Proposed Permanent Easement Monument (Rebar and Cap)	-----	◇
Existing C/A Monument	-----	▲
Proposed C/A Monument (Rebar and Cap)	-----	▲
Proposed C/A Monument (Concrete)	-----	⬢
Existing Right of Way Line	-----	-----
Proposed Right of Way Line	-----	-----
Existing Control of Access Line	-----	-----
Proposed Control of Access Line	-----	-----
Proposed ROW and CA Line	-----	-----
Existing Easement Line	-----	E
Proposed Temporary Construction Easement	-----	E
Proposed Temporary Drainage Easement	-----	TDE
Proposed Permanent Drainage Easement	-----	PDE
Proposed Permanent Drainage/Utility Easement	-----	DUE
Proposed Permanent Utility Easement	-----	PUE
Proposed Temporary Utility Easement	-----	TUE
Proposed Aerial Utility Easement	-----	AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----	-----
Existing Curb	-----	-----
Proposed Slope Stakes Cut	-----	C
Proposed Slope Stakes Fill	-----	F
Proposed Curb Ramp	-----	CR
Existing Metal Guardrail	-----	-----
Proposed Guardrail	-----	-----
Existing Cable Guiderail	-----	-----
Proposed Cable Guiderail	-----	-----
Equality Symbol	-----	⊕
Pavement Removal	-----	-----
VEGETATION:		
Single Tree	-----	⊕
Single Shrub	-----	⊕
Hedge	-----	-----

Woods Line	-----	-----
Orchard	-----	-----
Vineyard	-----	Vineyard

EXISTING STRUCTURES:

MAJOR:		
Bridge, Tunnel or Box Culvert	-----	CONC
Bridge Wing Wall, Head Wall and End Wall	-----	CONC WW
MINOR:		
Head and End Wall	-----	CONC HW
Pipe Culvert	-----	-----
Footbridge	-----	-----
Drainage Box: Catch Basin, DI or JB	-----	CB
Paved Ditch Gutter	-----	-----
Storm Sewer Manhole	-----	⊙
Storm Sewer	-----	s

UTILITIES:

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

POWER:		
Existing Power Pole	-----	●
Proposed Power Pole	-----	⊙
Existing Joint Use Pole	-----	●
Proposed Joint Use Pole	-----	⊙
Power Manhole	-----	⊙
Power Line Tower	-----	⊠
Power Transformer	-----	⊠
U/G Power Cable Hand Hole	-----	⊠
H-Frame Pole	-----	●
U/G Power Line Test Hole (SUE - LOS A)*	-----	⊙
U/G Power Line (SUE - LOS B)*	-----	P
U/G Power Line (SUE - LOS C)*	-----	P
U/G Power Line (SUE - LOS D)*	-----	P
TELEPHONE:		
Existing Telephone Pole	-----	●
Proposed Telephone Pole	-----	⊙
Telephone Manhole	-----	⊙
Telephone Pedestal	-----	⊠
Telephone Cell Tower	-----	⊠
U/G Telephone Cable Hand Hole	-----	⊠
U/G Telephone Test Hole (SUE - LOS A)*	-----	⊙
U/G Telephone Cable (SUE - LOS B)*	-----	T
U/G Telephone Cable (SUE - LOS C)*	-----	T
U/G Telephone Cable (SUE - LOS D)*	-----	T
U/G Telephone Conduit (SUE - LOS B)*	-----	TC
U/G Telephone Conduit (SUE - LOS C)*	-----	TC
U/G Telephone Conduit (SUE - LOS D)*	-----	TC
U/G Fiber Optics Cable (SUE - LOS B)*	-----	TFO
U/G Fiber Optics Cable (SUE - LOS C)*	-----	TFO
U/G Fiber Optics Cable (SUE - LOS D)*	-----	TFO

WATER:

Water Manhole	-----	⊙
Water Meter	-----	⊙
Water Valve	-----	⊗
Water Hydrant	-----	⊕
U/G Water Line Test Hole (SUE - LOS A)*	-----	⊙
U/G Water Line (SUE - LOS B)*	-----	W
U/G Water Line (SUE - LOS C)*	-----	W
U/G Water Line (SUE - LOS D)*	-----	W
Above Ground Water Line	-----	A/G Water

TV:

TV Pedestal	-----	⊠
TV Tower	-----	⊗
U/G TV Cable Hand Hole	-----	⊠
U/G TV Test Hole (SUE - LOS A)*	-----	⊙
U/G TV Cable (SUE - LOS B)*	-----	TV
U/G TV Cable (SUE - LOS C)*	-----	TV
U/G TV Cable (SUE - LOS D)*	-----	TV
U/G Fiber Optic Cable (SUE - LOS B)*	-----	TV FO
U/G Fiber Optic Cable (SUE - LOS C)*	-----	TV FO
U/G Fiber Optic Cable (SUE - LOS D)*	-----	TV FO

GAS:

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

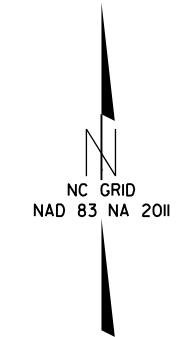
SANITARY SEWER:

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

MISCELLANEOUS:

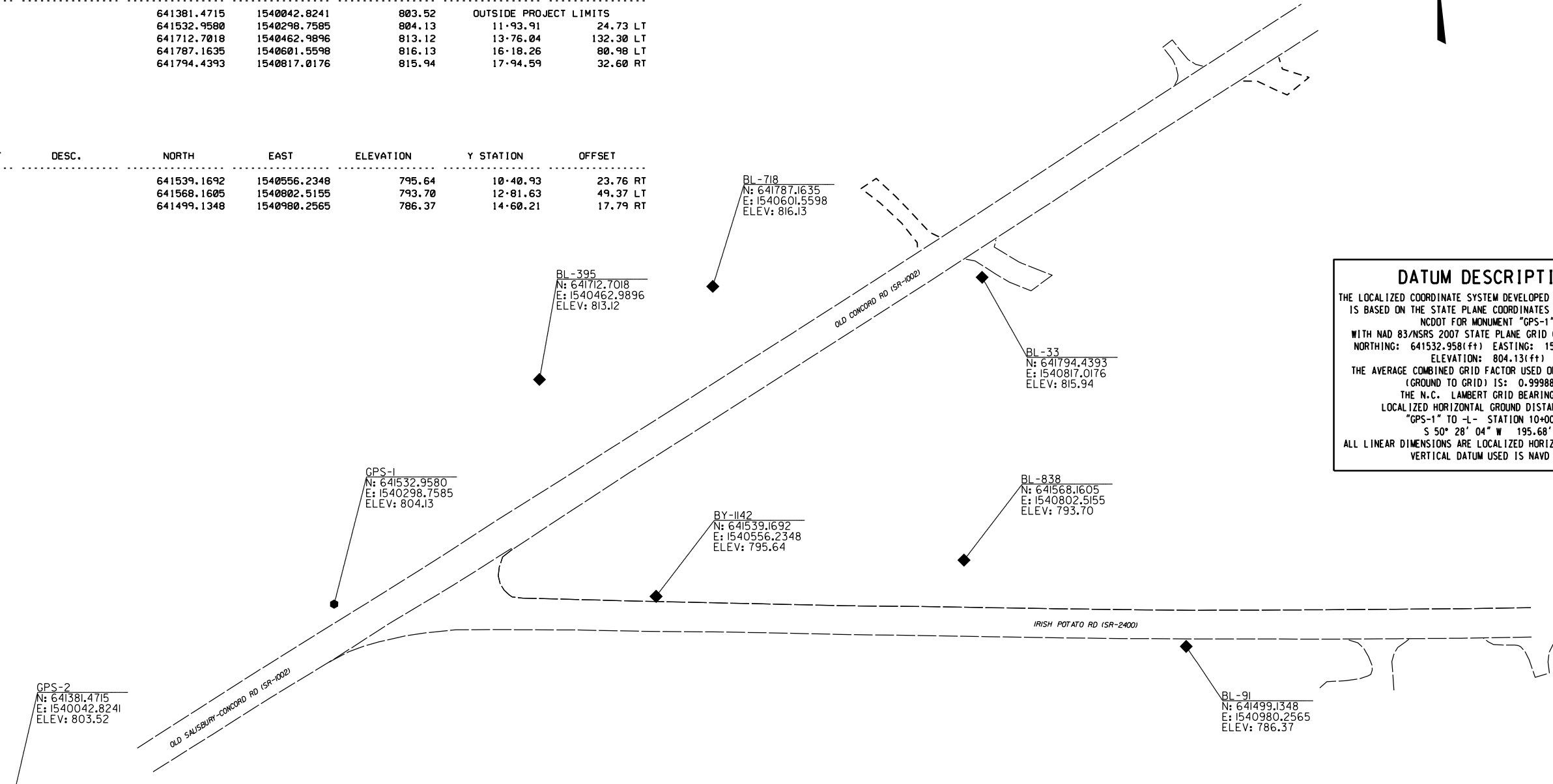
Utility Pole	-----	●
Utility Pole with Base	-----	⊠
Utility Located Object	-----	⊙
Utility Traffic Signal Box	-----	⊠
Utility Unknown U/G Line (SUE - LOS B)*	-----	UTL
U/G Tank; Water, Gas, Oil	-----	⊠
Underground Storage Tank, Approx. Loc.	-----	UST
A/G Tank; Water, Gas, Oil	-----	⊠
Geoenvironmental Boring	-----	⊕
Abandoned According to Utility Records	-----	AATUR
End of Information	-----	E.O.I.

SURVEY CONTROL SHEET



BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
	GPS-2		641381.4715	1540042.8241	803.52	OUTSIDE PROJECT LIMITS	
	GPS-1		641532.9580	1540298.7585	804.13	11+93.91	24.73 LT
	BL-395		641712.7018	1540462.9896	813.12	13+76.04	132.30 LT
	BL-718		641787.1635	1540601.5598	816.13	16+18.26	80.98 LT
	BL-33		641794.4393	1540817.0176	815.94	17+94.59	32.60 RT

BY	POINT	DESC.	NORTH	EAST	ELEVATION	Y STATION	OFFSET
	BY-1142		641539.1692	1540556.2348	795.64	10+40.93	23.76 RT
	BY-838		641568.1605	1540802.5155	793.70	12+81.63	49.37 LT
	BY-91		641499.1348	1540980.2565	786.37	14+60.21	17.79 RT



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/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 641532.958(ft) EASTING: 1540298.759(ft) ELEVATION: 804.13(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99988216

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-1" TO -L- STATION 10+00 IS S 50° 28' 04" W 195.68'

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

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
OLD CONCORD RD. (SR-1002) AND IRISH
POTATO RD. (SR-2400)

SCALE	1"=50'		REVISIONS
DATE	7-2021		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		

RIGHT OF WAY, EASEMENT AND PROPOSED ALIGNMENT SHEET

L

TYPE	STATION	NORTH	EAST
PC	10+00.00	641408.4074	1540147.8393
PCC	12+45.22	641538.8868	1540355.4569
PRC	14+32.00	641582.4669	1540533.9944
PRC	15+31.45	641657.1041	1540598.2266
PCC	16+37.56	641735.4977	1540667.9478
PT	21+27.86	642002.5501	1541079.1354

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	16+00.00	45.00	641679.6650	1540669.9477
L	17+00.00	29.23	641745.4467	1540736.1444

Y

TYPE	STATION	NORTH	EAST
PC	10+00.00	641582.4669	1540533.9944
PCC	11+91.28	641520.2742	1540711.4671
PCC	14+89.70	641516.7423	1541009.8641
PT	17+35.99	641518.3434	1541256.1429

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y	11+20.00	-55.00	641583.1998	1540654.9427
Y	12+00.00	-30.46	641550.5736	1540720.7325

PERMANENT UTILITY EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	11+68.00	31.47	641471.5572	1540306.4291
L	16+50.00	63.00	641689.7759	1540713.0369
L	17+06.00	-30.72	641798.8275	1540708.2198
L	17+17.00	-30.61	641804.7894	1540717.4775
L	17+28.00	-56.00	641832.0556	1540712.7485
L	17+34.00	-50.00	641830.3375	1540721.0654
L	19+43.74	50.03	641861.0114	1540951.3980

PERMANENT UTILITY EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y	11+47.00	81.00	641444.4526	1540654.0434
Y	11+47.00	90.00	641435.5761	1540652.5575
Y	11+56.00	89.00	641434.8086	1540664.2597
Y	11+56.00	80.00	641443.7257	1540665.4786
Y	11+67.00	-43.56	641565.0450	1540691.5513
Y	13+42.00	-55.00	641573.0069	1540862.8191
Y	13+42.00	-30.14	641548.1508	1540862.5265
Y	13+48.00	46.00	641471.9439	1540867.6418
**Y	13+48.00	29.89	641488.0515	1540867.8273
Y	13+50.00	-55.00	641572.9143	1540870.7996
Y	13+50.00	-30.10	641548.0143	1540870.5151

** POINT NOT SET DUE TO EXISTING CONCRETE DEBRIS (13+48 29.89' RT. -Y-)

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 22nd day of FEB 2022

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 IO DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

ROUNDBOUT AT THE INTERSECTION OF
OLD CONCORD RD.(SR-1002) AND
IRISH POTATO RD.(SR-2400)

SCALE	N/A		REVISIONS
DATE	2-2022		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		



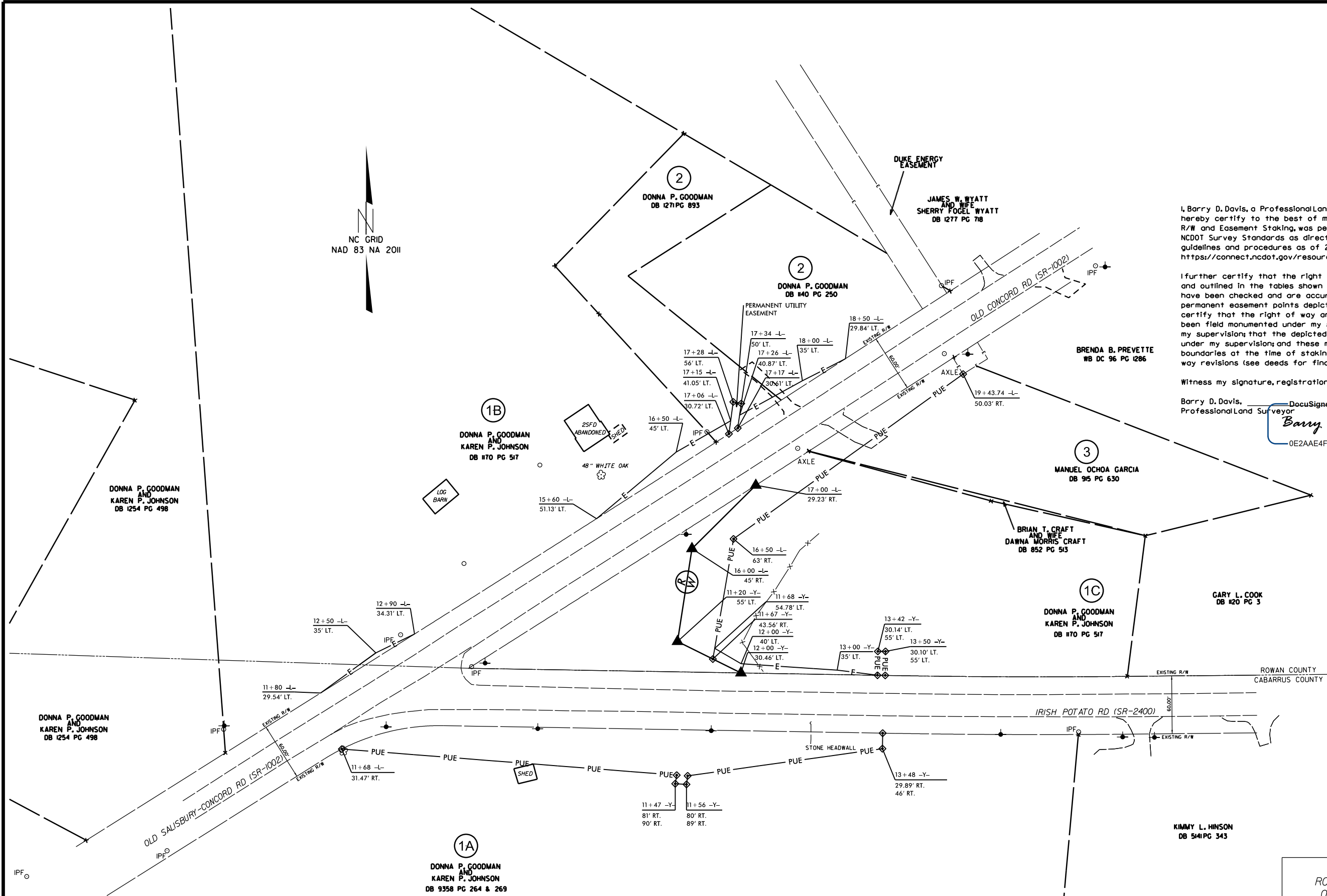
I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys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

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Witness my signature, registration number and seal this 22nd day of FEB 2022

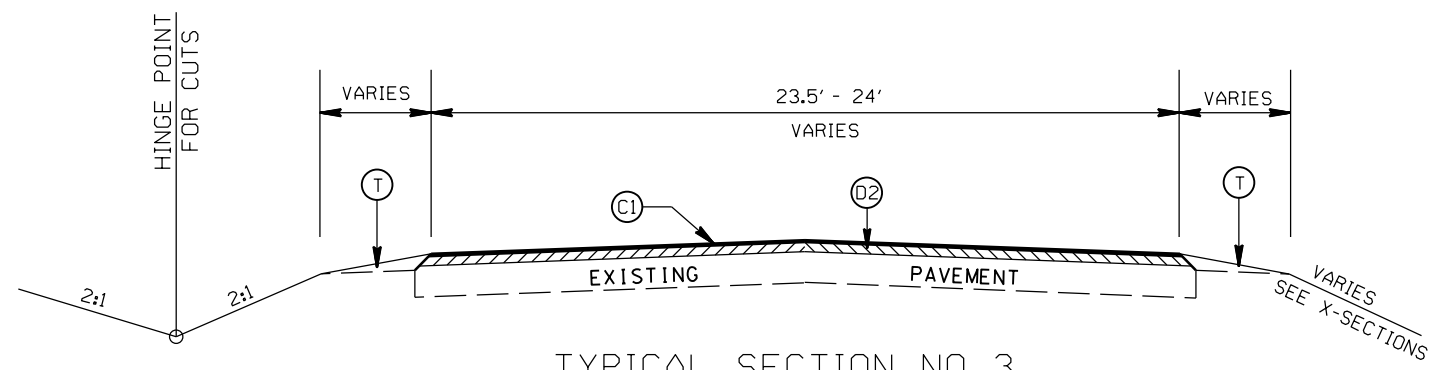
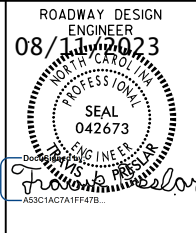
Barry D. Davis, Professional Land Surveyor DocuSigned by: PLS# L-4384

Barry Davis
0E2AAE4F48174DC...

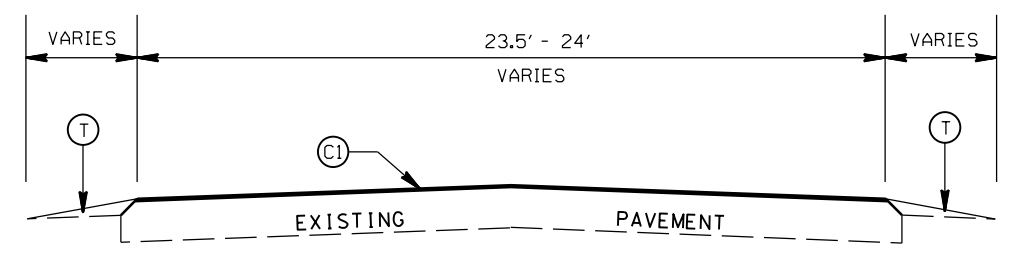


ROUNDABOUT AT THE INTERSECTION OF
OLD CONCORD RD. (SR-1002) AND IRISH
POTATO RD. (SR-2400)

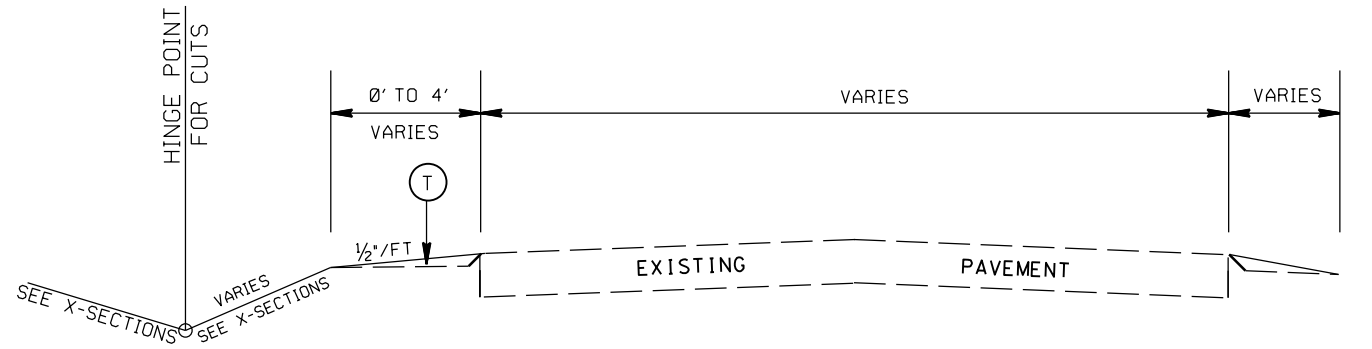
SCALE	1"=50'		REVISIONS
DATE	3-2021		
DWG. BY			
DESIGN BY	JCB		
APPROVED	JDH		



TYPICAL SECTION NO. 3
 STA 11+50.00 TO 11+74.18 -L-
 STA 13+65.98 TO 14+50.00 -Y-



TYPICAL SECTION NO. 2
 STA 11+25.00 TO 11+50.00 -L-
 STA 17+91.13 TO 18+16.13 -L-
 STA 14+50.00 TO 14+90.00 -Y-



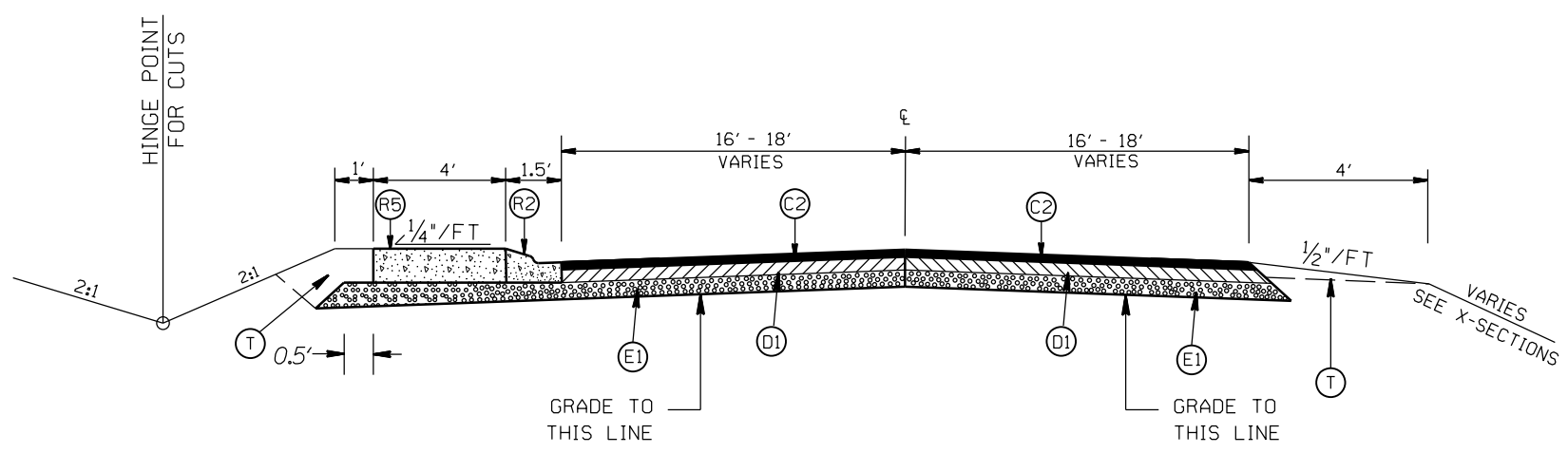
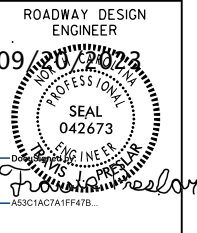
TYPICAL SECTION NO. 1
 STA. 10+50.00 TO 11+25.00 -L-
 STA. 18+16.13 TO 18+50.00 -L-

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.
(R1)	PROP. 8" X 18" CONC. CURB
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL

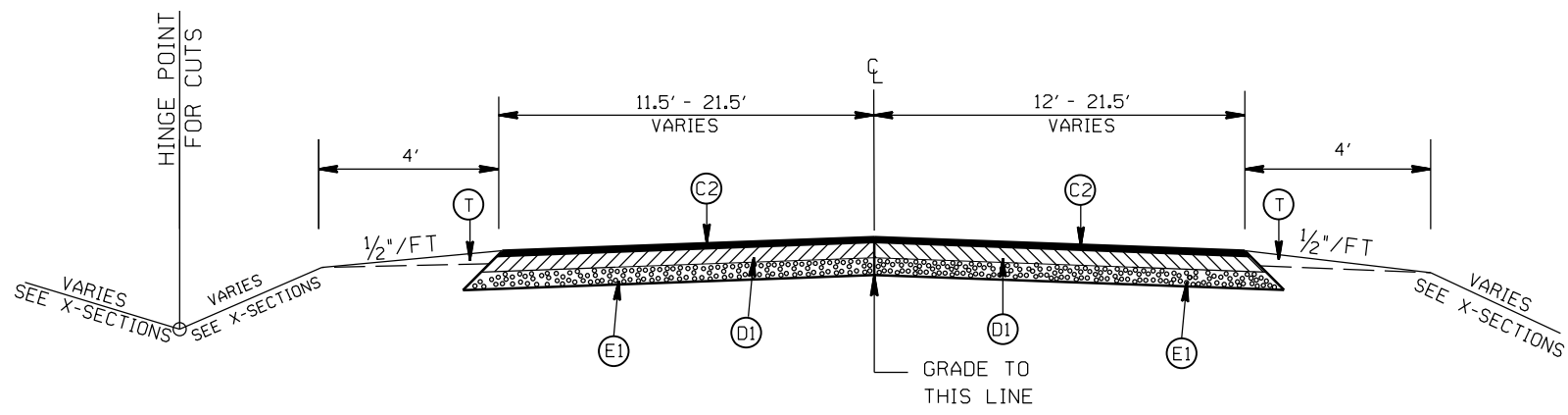
ROUNDABOUT AT THE INTERSECTION OF
 OLD CONCORD RD. (SR-1002) AND
 IRISH POTATO RD. (SR-2400)

SCALE	N/A		REVISIONS
DATE	8-2022		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		

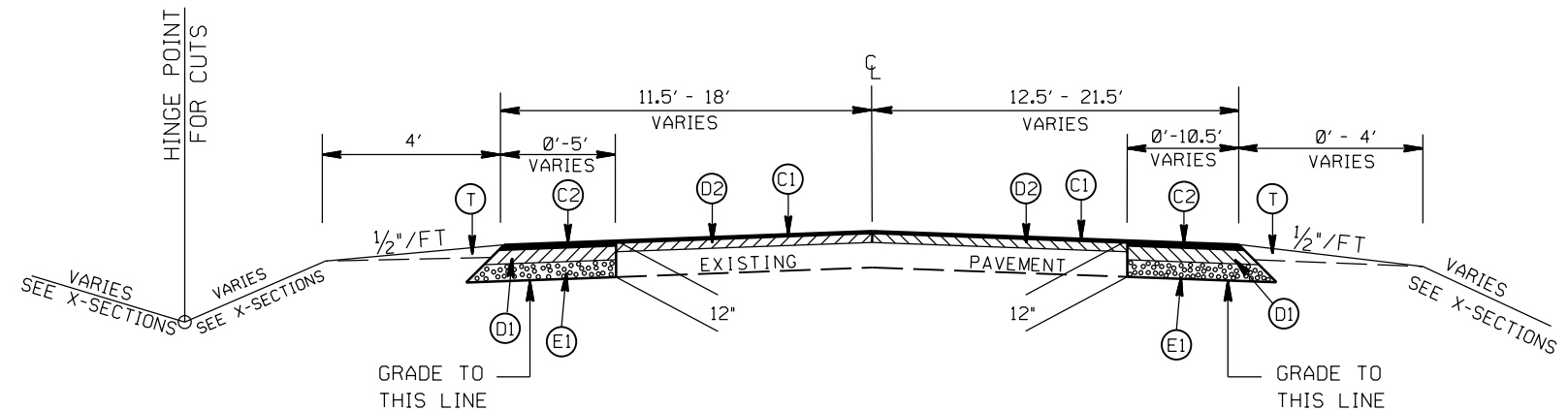


TYPICAL SECTION NO. 6
STA. 13+09.06 TO 13+14.19 -L-

NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN ALL INSIDE AND OUTSIDE PROP. 12" TRUCK MOUNTABLE CONC. APRONS (R3,R5).
 -OVERLAP WELDED WIRE MESH PANELS 4".



TYPICAL SECTION NO. 5
 STA. 12+67.11 TO 13+09.06 -L-
 STA. 11+17.82 TO 13+65.98 -Y-



TYPICAL SECTION NO. 4
 STA. 11+74.18 TO 12+67.11 -L-
 STA. 16+56.63 TO 17+91.13 -L-

PAVEMENT SCHEDULE

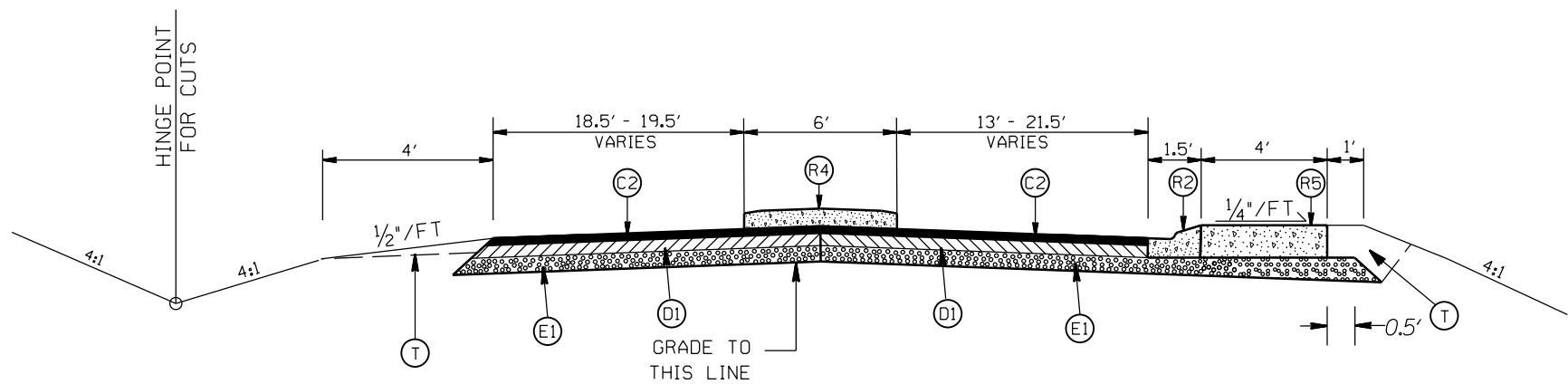
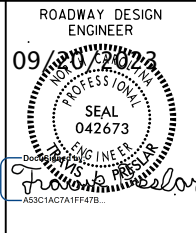
(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(R1)	PROP. 8" X 18" CONC. CURB
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL

ROUNDABOUT AT THE INTERSECTION OF
 OLD CONCORD RD. (SR-1002) AND
 IRISH POTATO RD. (SR-2400)

SCALE	N/A
DATE	8-2022
DWG. BY	JCB
DESIGN BY	JCB
APPROVED	JDH



REVISIONS	

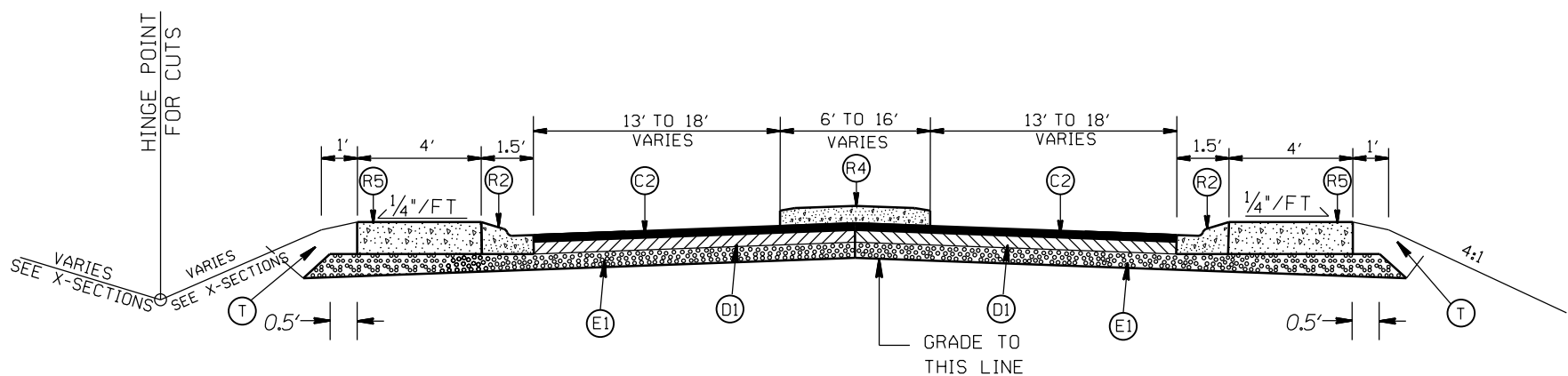


TYPICAL SECTION NO. 9
 STA. 16+43.05 TO 16+51.13 -L-
 STA. 11+15.56 TO 11+17.82 -Y-

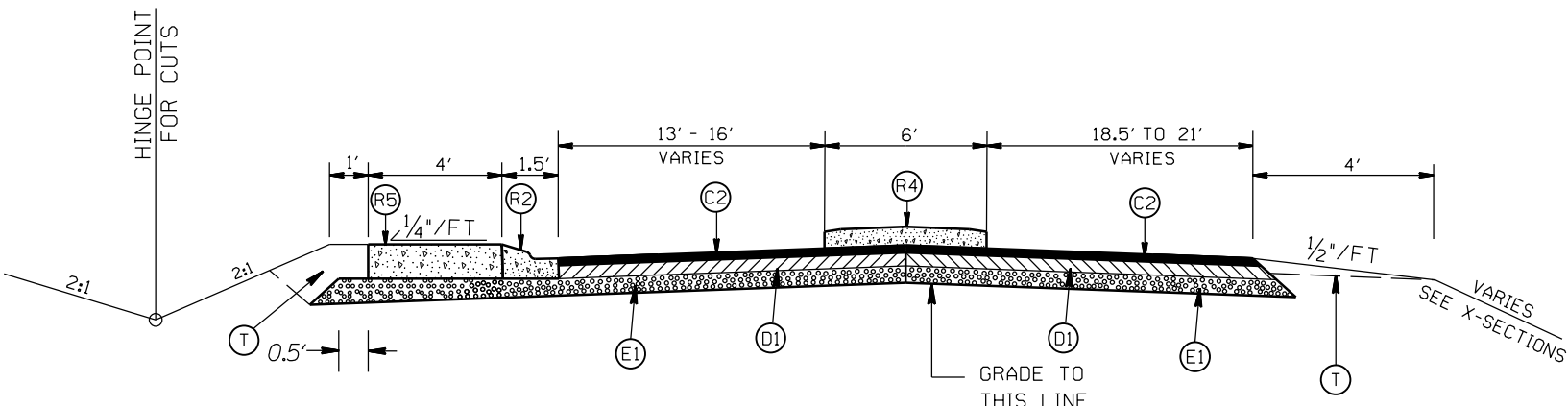
NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN ALL INSIDE AND OUTSIDE PROP. 12" TRUCK MOUNTABLE CONC. APRONS (R3,R5).
 -OVERLAP WELDED WIRE MESH PANELS 4".

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, TYPE I19.0C.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(R1)	PROP. 8" X 18" CONC. CURB
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL



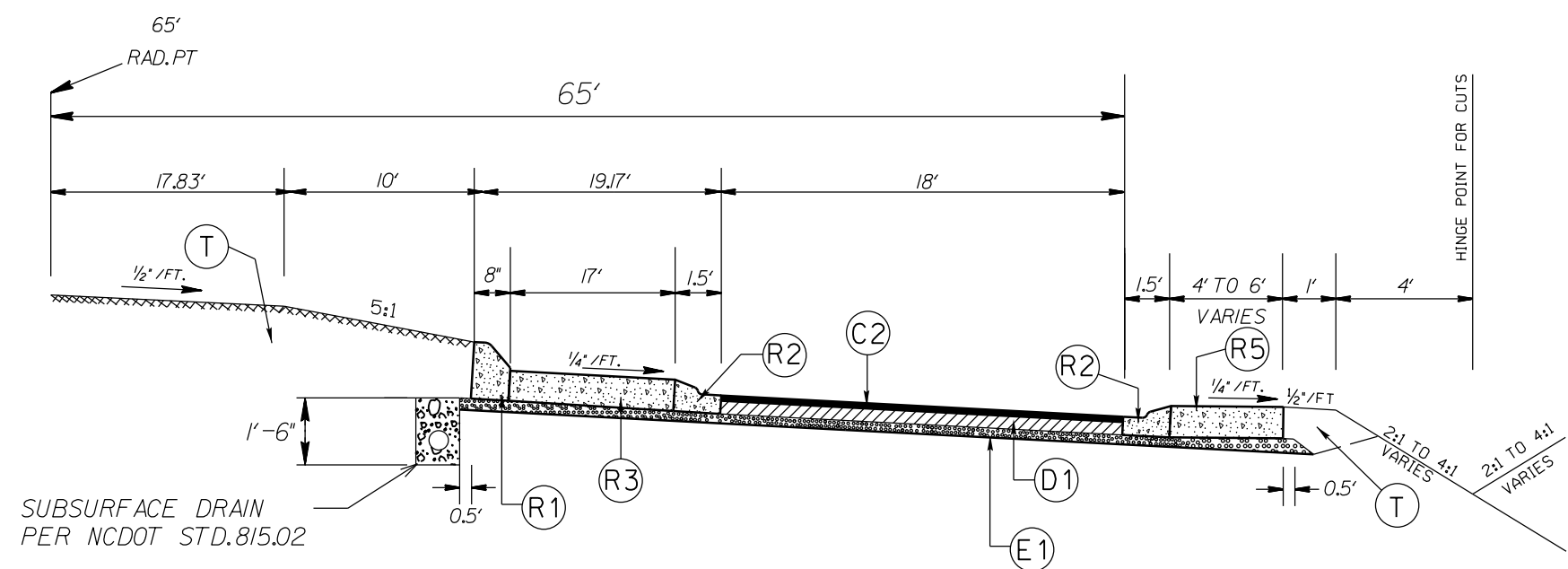
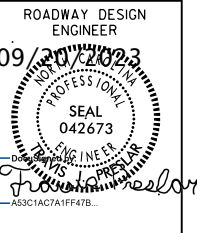
TYPICAL SECTION NO. 8
 STA. 13+16.44 TO 13+66.87 -L-
 STA. 14+97.28 TO 16+43.05 -L-
 STA. 10+65.13 TO 11+15.56 -Y-



TYPICAL SECTION NO. 7
 STA. 13+14.19 TO 13+16.44 -L-

ROUNDABOUT AT THE INTERSECTION OF
 OLD CONCORD RD. (SR-1002) AND
 IRISH POTATO RD. (SR-2400)

SCALE	N/A		REVISIONS
DATE	8-2022		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		



SUBSURFACE DRAIN
PER NCDOT STD. 815.02

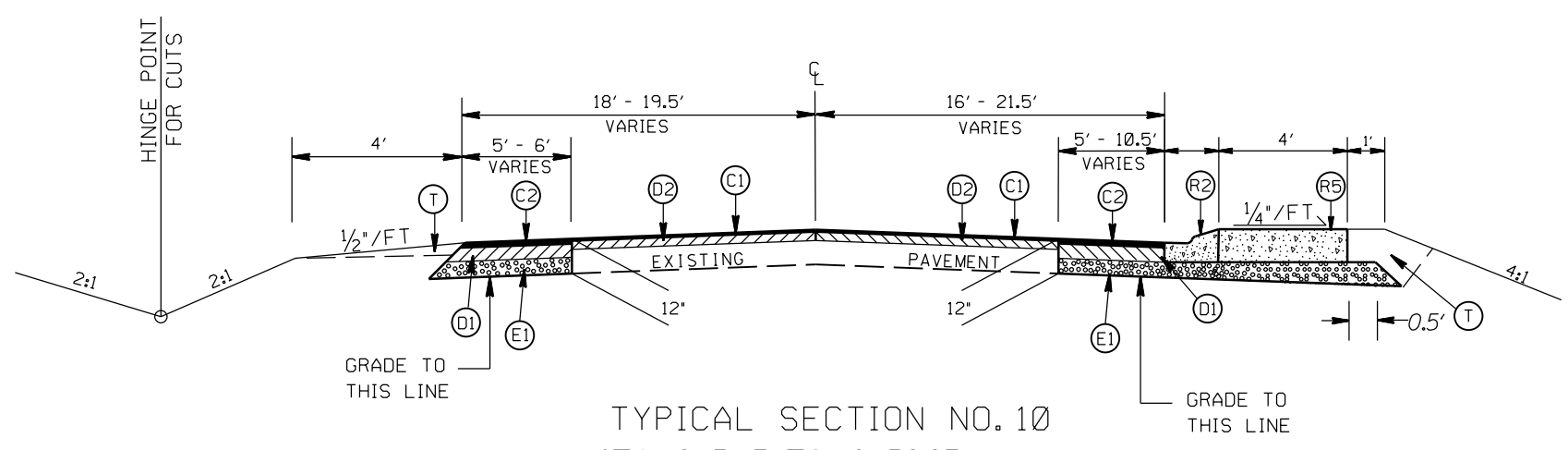
TYPICAL SECTION NO. 11
ROUNDBOUT

STA. 13+66.87 TO 14+97.28 -L-
STA. 10+00.00 TO 10+65.13 -Y-

- NOTES:
- UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN ALL INSIDE AND OUTSIDE PROP. 12" TRUCK MOUNTABLE CONC. APRONS (R3, R5).
 - 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, TYPE I19.0C.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(R1)	PROP. 8" X 18" CONC. CURB
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL

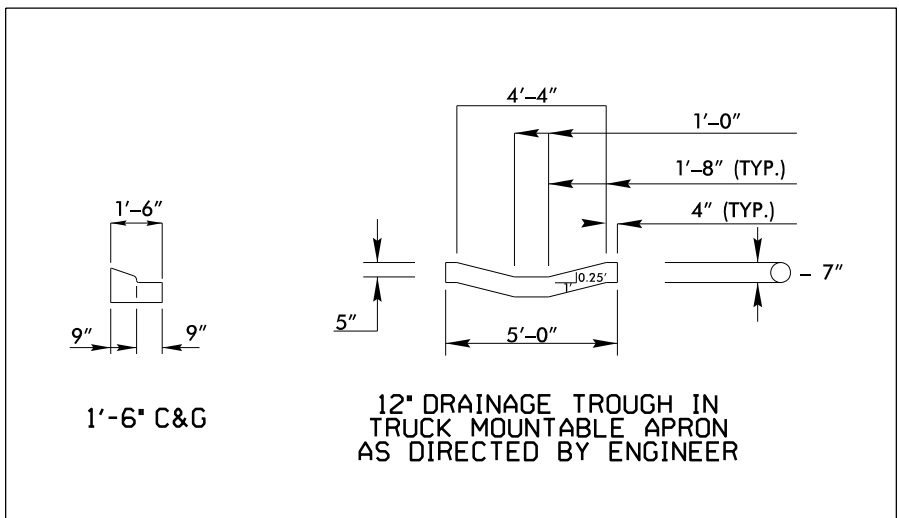


TYPICAL SECTION NO. 10
STA. 16+51.13 TO 16+56.63 -L-

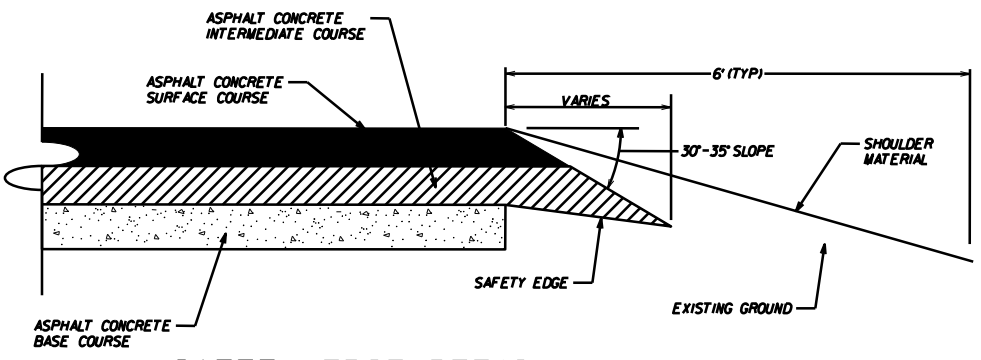
ROUNDBOUT AT THE INTERSECTION OF
OLD CONCORD RD. (SR-1002) AND
IRISH POTATO RD. (SR-2400)

SCALE	N/A		REVISIONS
DATE	8-2022		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		

ROADWAY DESIGN ENGINEER
 09/20/2023
 SEAL 042673
 J. J. ...



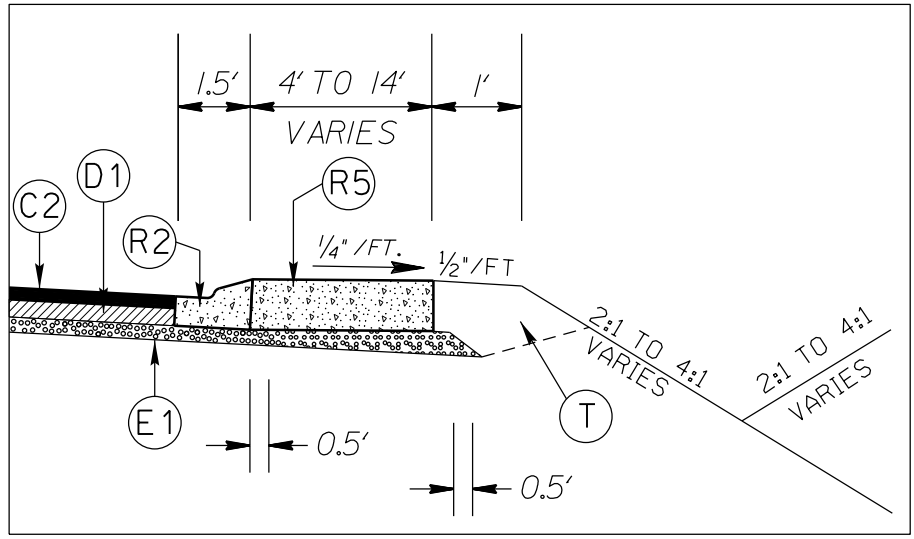
DRAINAGE TROUGH DETAIL



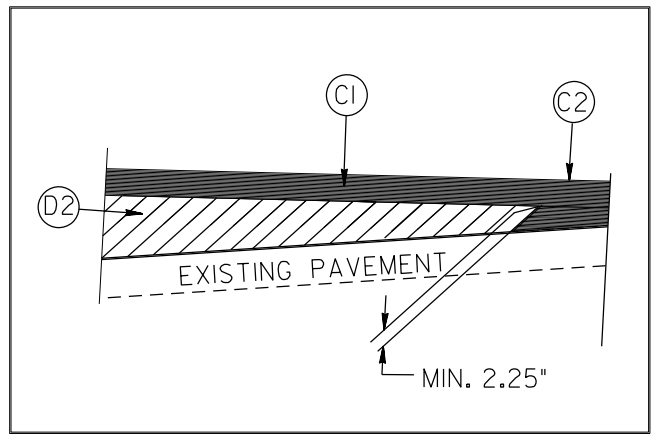
SAFETY EDGE DETAIL

PAVEMENT SCHEDULE

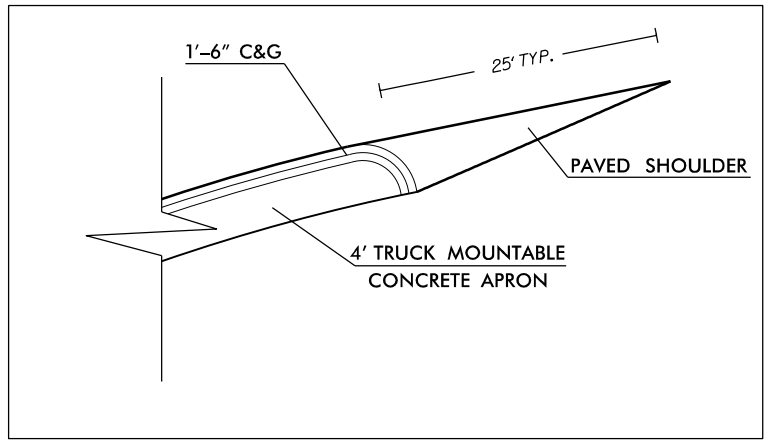
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(R1)	PROP. 8" X 18" CONC. CURB
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 12" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL



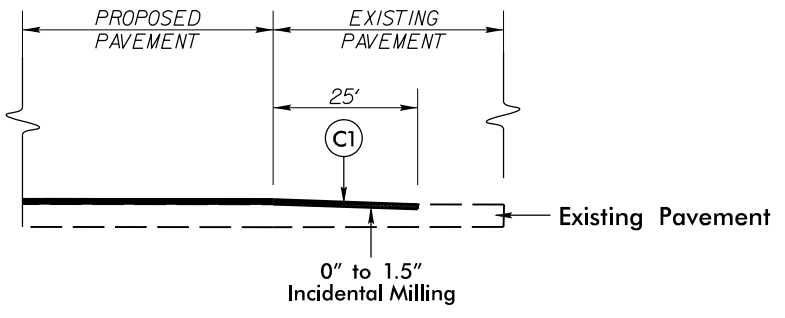
APRON DETAIL



WEDGING DETAIL



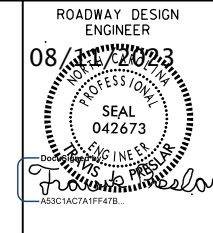
CURB DETAIL



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

NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN ALL INSIDE AND OUTSIDE PROP. 12" TRUCK MOUNTABLE CONC. APRONS (R3, R5).
 -OVERLAP WELDED WIRE MESH PANELS 4".

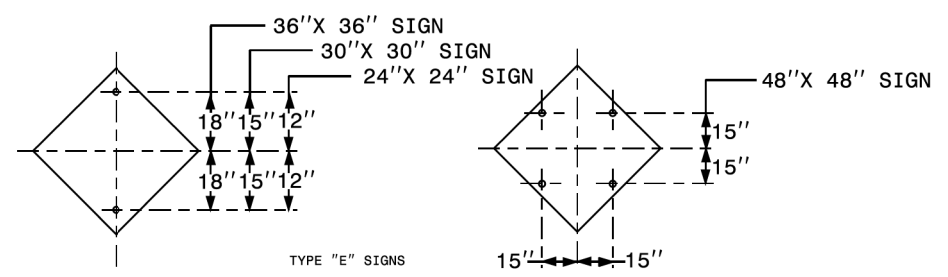
ROUNDABOUT AT THE INTERSECTION OF OLD CONCORD RD. (SR-1002) AND IRISH POTATO RD. (SR-2400)	
SCALE	N/A
DATE	8-2022
DWG. BY	JCB
DESIGN BY	JCB
APPROVED	JDH
REVISIONS	



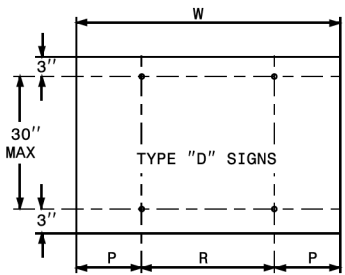
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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

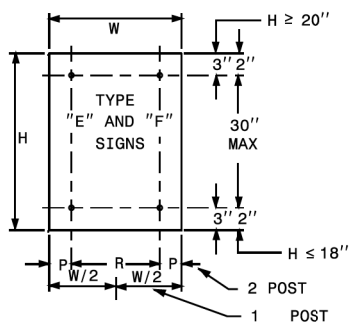
SHEET 2 OF 2
904.50



TYPE "E" SIGNS



TYPE "D" SIGNS

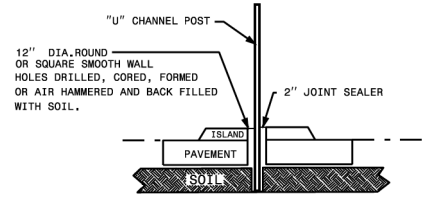


TYPE "E" AND "F" SIGNS

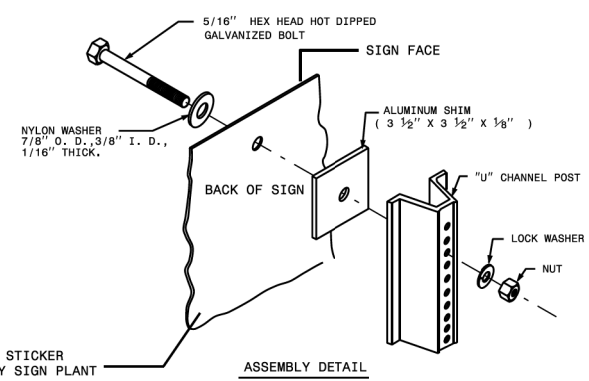
NO. SUPPORTS			
	2	3 *	4
P	.207W	.145W	.107W
R	.586W	.355W	.262W

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

HOLE PUNCHING DETAIL



DETAIL FOR INSTALLATION OF CHANNEL POST IN CONCRETE



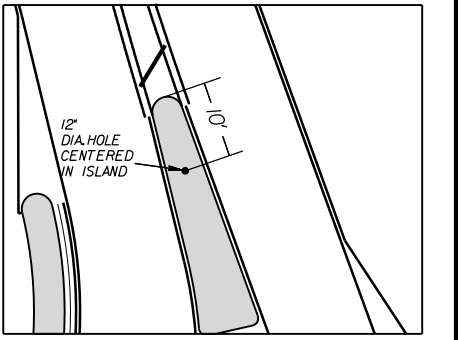
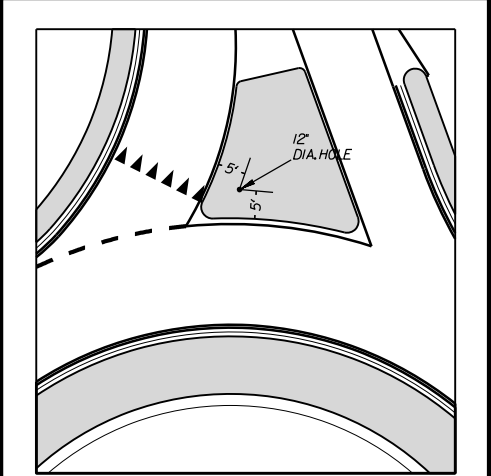
ASSEMBLY DETAIL

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

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

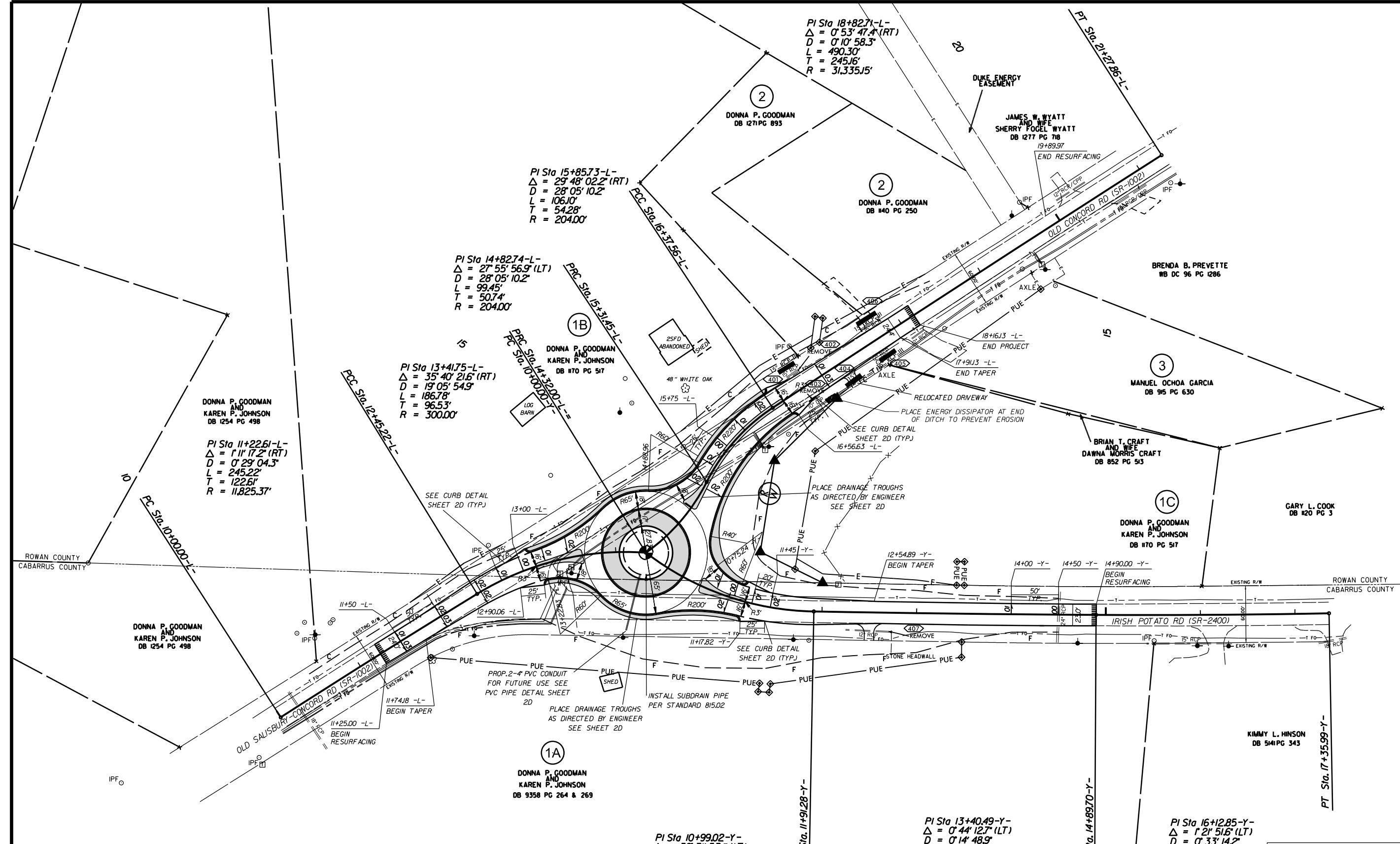
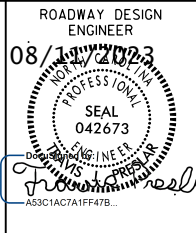


ROUNDABOUT AT THE INTERSECTION OF
OLD CONCORD RD.(SR-1002) AND
IRISH POTATO RD.(SR-2400)

SCALE	N/A
DATE	8-2022
DWG. BY	JCB
DESIGN BY	JCB
APPROVED	JDH



REVISIONS	



DONNA P. GOODMAN AND KAREN P. JOHNSON DB 1254 PG 498

PI Sta 11+22.61-L-
 $\Delta = 1^{\circ} 17' 2''$ (RT)
 $D = 0^{\circ} 29' 04.3''$
 $L = 245.22'$
 $T = 122.61'$
 $R = 11,825.37'$

PI Sta 14+82.74-L-
 $\Delta = 27^{\circ} 55' 56.9''$ (LT)
 $D = 28^{\circ} 05' 10.2''$
 $L = 99.45'$
 $T = 50.74'$
 $R = 204.00'$

PI Sta 15+85.73-L-
 $\Delta = 29^{\circ} 48' 02.2''$ (RT)
 $D = 28^{\circ} 05' 10.2''$
 $L = 106.10'$
 $T = 54.28'$
 $R = 204.00'$

PI Sta 18+82.71-L-
 $\Delta = 0^{\circ} 53' 47.4''$ (RT)
 $D = 0^{\circ} 10' 58.3''$
 $L = 490.30'$
 $T = 245.16'$
 $R = 31,335.15'$

PI Sta 13+41.75-L-
 $\Delta = 35^{\circ} 40' 21.6''$ (LT)
 $D = 19^{\circ} 05' 54.9''$
 $L = 186.78'$
 $T = 96.53'$
 $R = 300.00'$

DONNA P. GOODMAN AND KAREN P. JOHNSON DB 1170 PG 517

DONNA P. GOODMAN DB 140 PG 250

MANUEL OCHOA GARCIA DB 96 PG 630

BRIAN T. CRAFT AND WIFE DAWNA MORRIS CRAFT DB 852 PG 513

DONNA P. GOODMAN AND KAREN P. JOHNSON DB 1170 PG 517

GARY L. COOK DB 120 PG 3

DONNA P. GOODMAN AND KAREN P. JOHNSON DB 1254 PG 498

DONNA P. GOODMAN AND KAREN P. JOHNSON DB 9358 PG 264 & 269

KIMMY L. HINSON DB 541 PG 343

PI Sta 10+99.02-Y-
 $\Delta = 36^{\circ} 31' 53.1''$ (LT)
 $D = 19^{\circ} 05' 54.9''$
 $L = 191.28'$
 $T = 99.02'$
 $R = 300.00'$


PI Sta 13+40.49-Y-
 $\Delta = 0^{\circ} 44' 12.7''$ (LT)
 $D = 0^{\circ} 14' 48.9''$
 $L = 298.42'$
 $T = 149.21'$
 $R = 23,204.44'$

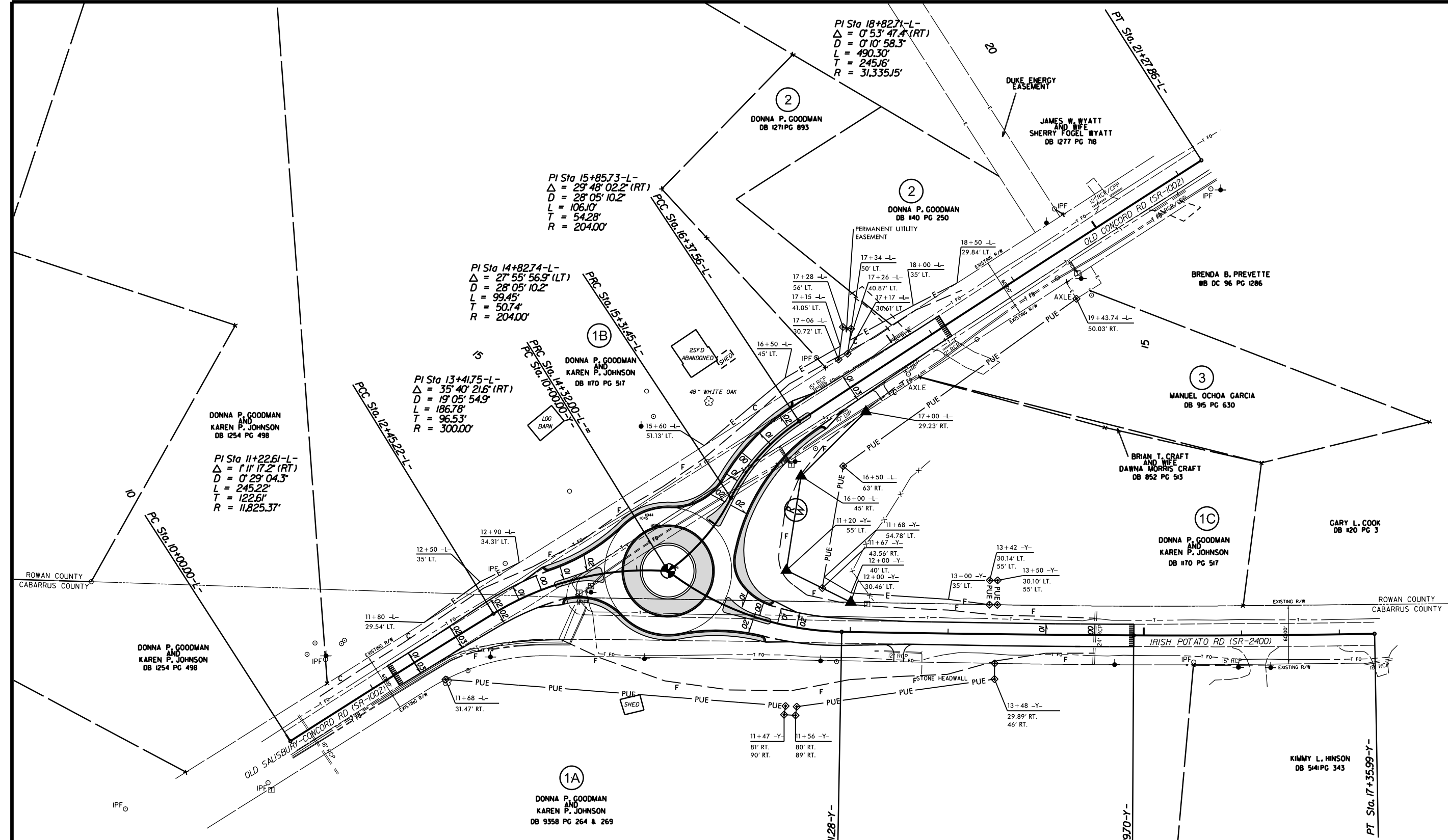
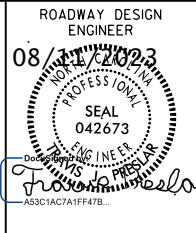
PI Sta 16+12.85-Y-
 $\Delta = 1^{\circ} 21' 51.6''$ (LT)
 $D = 0^{\circ} 33' 14.2''$
 $L = 246.29'$
 $T = 123.15'$
 $R = 10,343.14'$

*NOTE: SEE SHEET 4A FOR R/W, EASEMENT STATIONS & OFFSETS

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

ROUNDABOUT AT THE INTERSECTION OF OLD CONCORD RD. (SR-1002) AND IRISH POTATO RD. (SR-2400)

SCALE	1"=50'		REVISIONS
DATE	7-2021		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		



PI Sta 18+8271-L-
 $\Delta = 0^{\circ}53'47.4''$ (RT)
 $D = 0^{\circ}10'58.3''$
 $L = 490.30'$
 $T = 245.16'$
 $R = 31,335.15'$

PI Sta 15+8573-L-
 $\Delta = 29^{\circ}48'02.2''$ (RT)
 $D = 28^{\circ}05'10.2''$
 $L = 106.10'$
 $T = 54.28'$
 $R = 204.00'$

PI Sta 14+8274-L-
 $\Delta = 27^{\circ}55'56.9''$ (LT)
 $D = 28^{\circ}05'10.2''$
 $L = 99.45'$
 $T = 50.74'$
 $R = 204.00'$

PI Sta 13+4175-L-
 $\Delta = 35^{\circ}40'21.6''$ (RT)
 $D = 19^{\circ}05'54.9''$
 $L = 186.78'$
 $T = 96.53'$
 $R = 300.00'$

PI Sta 11+2261-L-
 $\Delta = 1^{\circ}11'17.2''$ (RT)
 $D = 0^{\circ}29'04.3''$
 $L = 245.22'$
 $T = 122.61'$
 $R = 11,825.37'$

PI Sta 10+9902-Y-
 $\Delta = 36^{\circ}31'53.1''$ (LT)
 $D = 19^{\circ}05'54.9''$
 $L = 191.28'$
 $T = 99.02'$
 $R = 300.00'$

PI Sta 13+4049-Y-
 $\Delta = 0^{\circ}44'12.7''$ (LT)
 $D = 0^{\circ}14'48.9''$
 $L = 298.42'$
 $T = 149.21'$
 $R = 23,204.44'$

PI Sta 16+1285-Y-
 $\Delta = 1^{\circ}21'51.6''$ (LT)
 $D = 0^{\circ}33'14.2''$
 $L = 246.29'$
 $T = 123.15'$
 $R = 10,343.14'$

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

ROUNDABOUT AT THE INTERSECTION OF
 OLD CONCORD RD.(SR-1002) AND
 IRISH POTATO RD.(SR-2400)

SCALE	1"=50'		REVISIONS
DATE	7-2021		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		

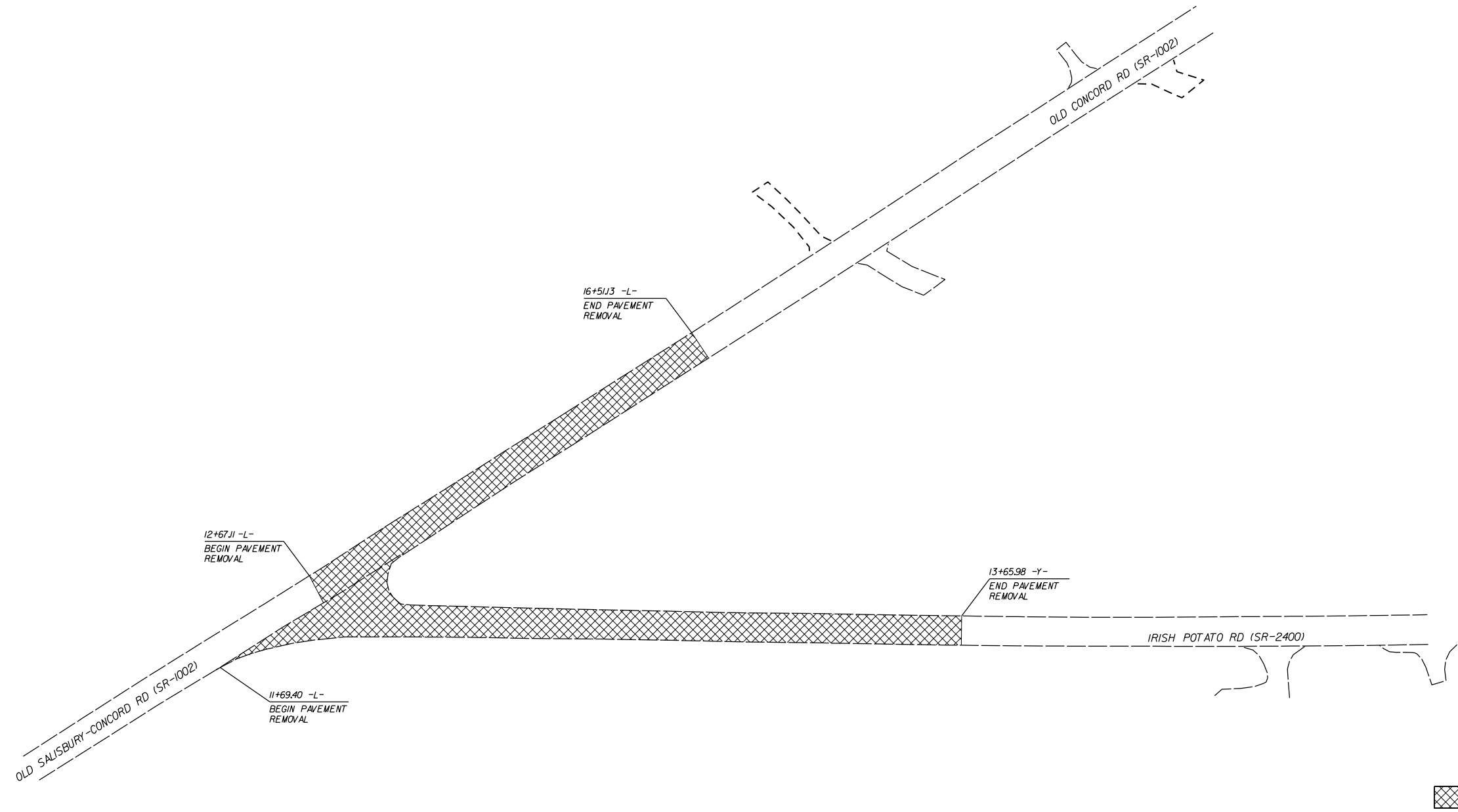
PROJECT NO.	SHEET NO.
44856.3.43	5
F.A. PROJECT NO. HSIP-100210561	

ROADWAY DESIGN
ENGINEER

08/11/2023

SEAL
042673

James J. Presler



PAVEMENT REMOVAL

ROUNDBOUT AT THE INTERSECTION OF
OLD CONCORD RD.(SR-1002) AND
IRISH POTATO RD.(SR-2400)

SCALE	1"=50'		REVISIONS
DATE	3-2021		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		

5/14/99

PROJECT REFERENCE NO. SHEET NO.

44856.3.43 6

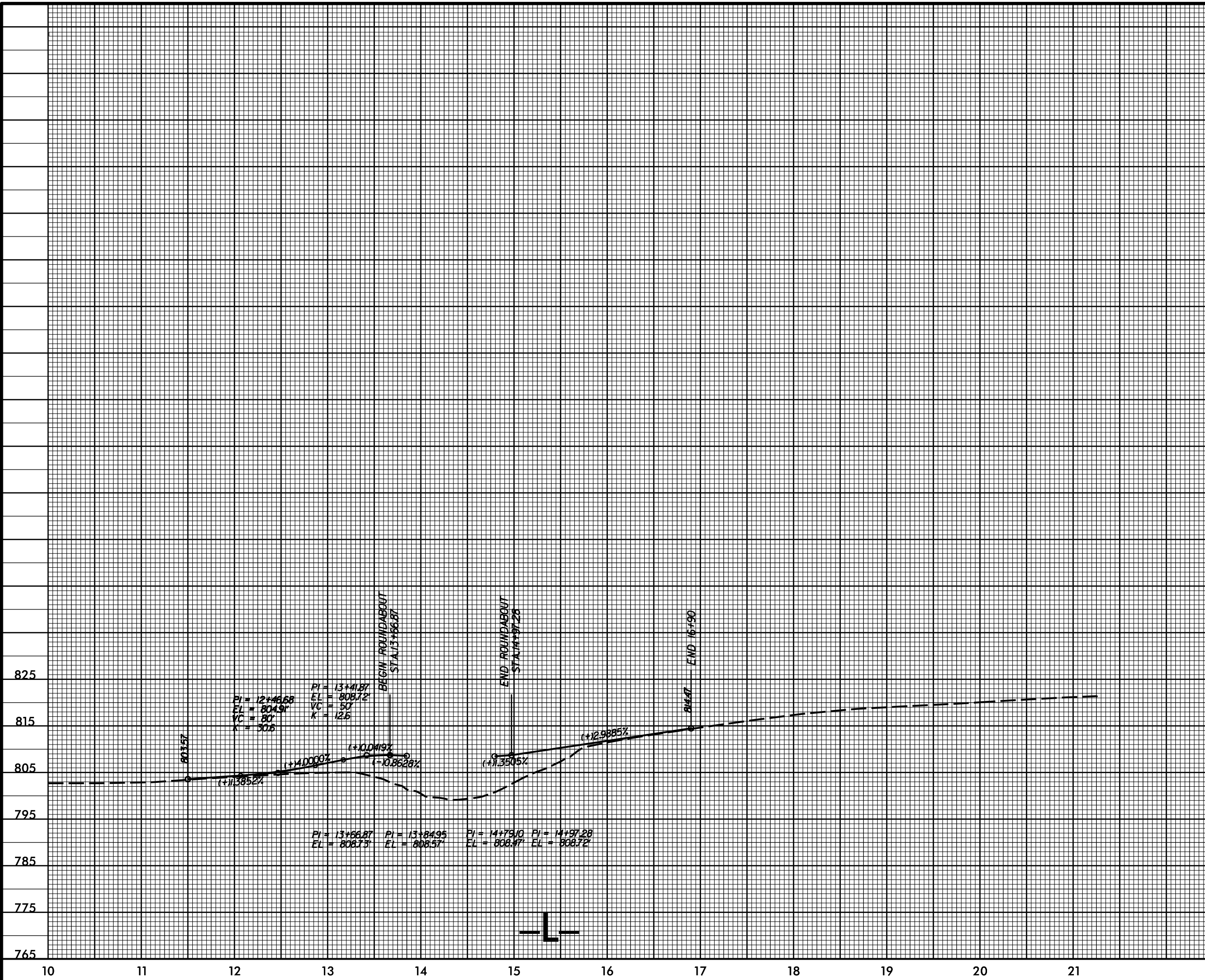
ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

3-MAR-2023 10:08 S:\DC\JOY\Laborus\W-5710A0.Irish Potato.Old Concord_RAB.pfl.L.dgn



PI = 12+46.68
EL = 804.91
VC = 80'
K = 30.6

PI = 13+41.87
EL = 808.72
VC = 50'
K = 12.6

PI = 13+56.87
EL = 808.73

PI = 13+84.95
EL = 808.57

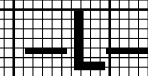
PI = 14+79.10
EL = 808.47

PI = 14+97.28
EL = 808.72

BEGIN ROUNDABOUT
STA 13+56.87

END ROUNDABOUT
STA 14+97.28

END 16+90



5/14/99

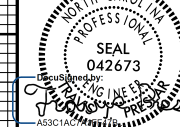
PROJECT REFERENCE NO. SHEET NO.

44856.3.43 7

ROADWAY DESIGN ENGINEER

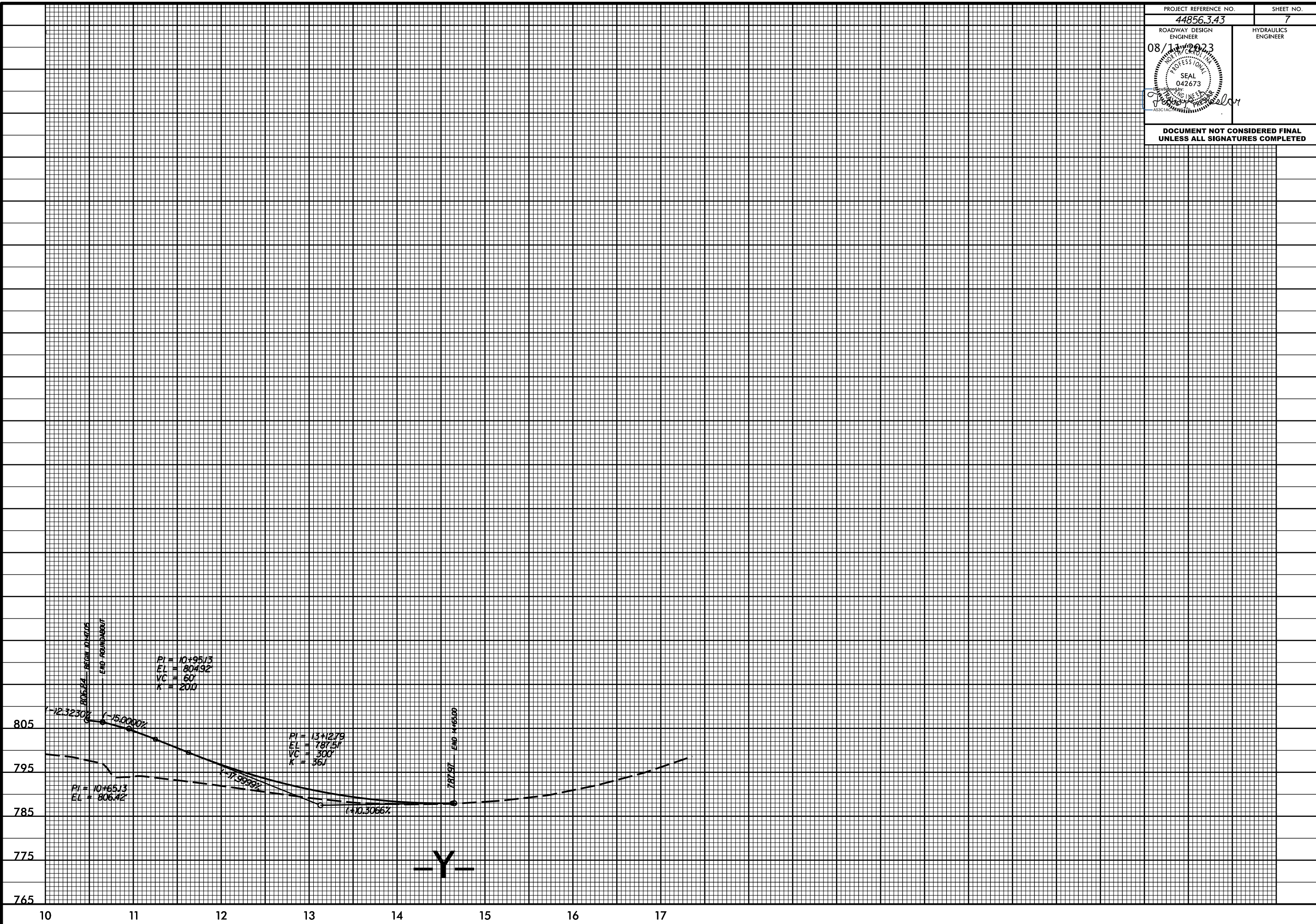
HYDRAULICS ENGINEER

08/14/2023

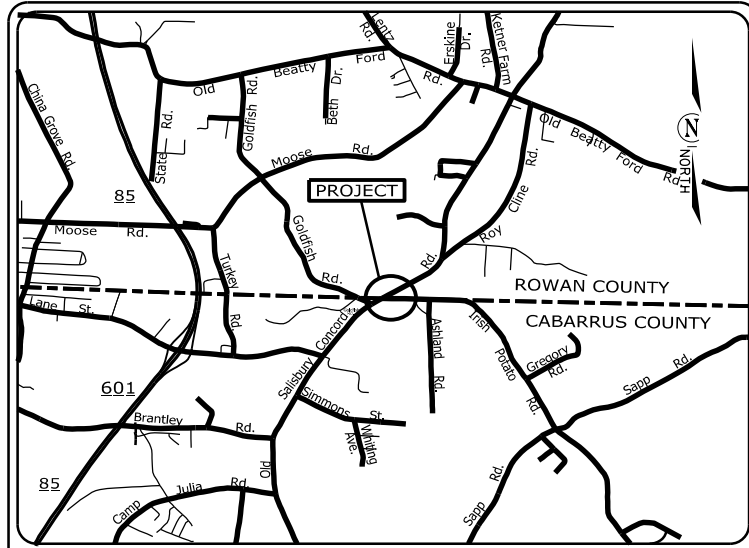


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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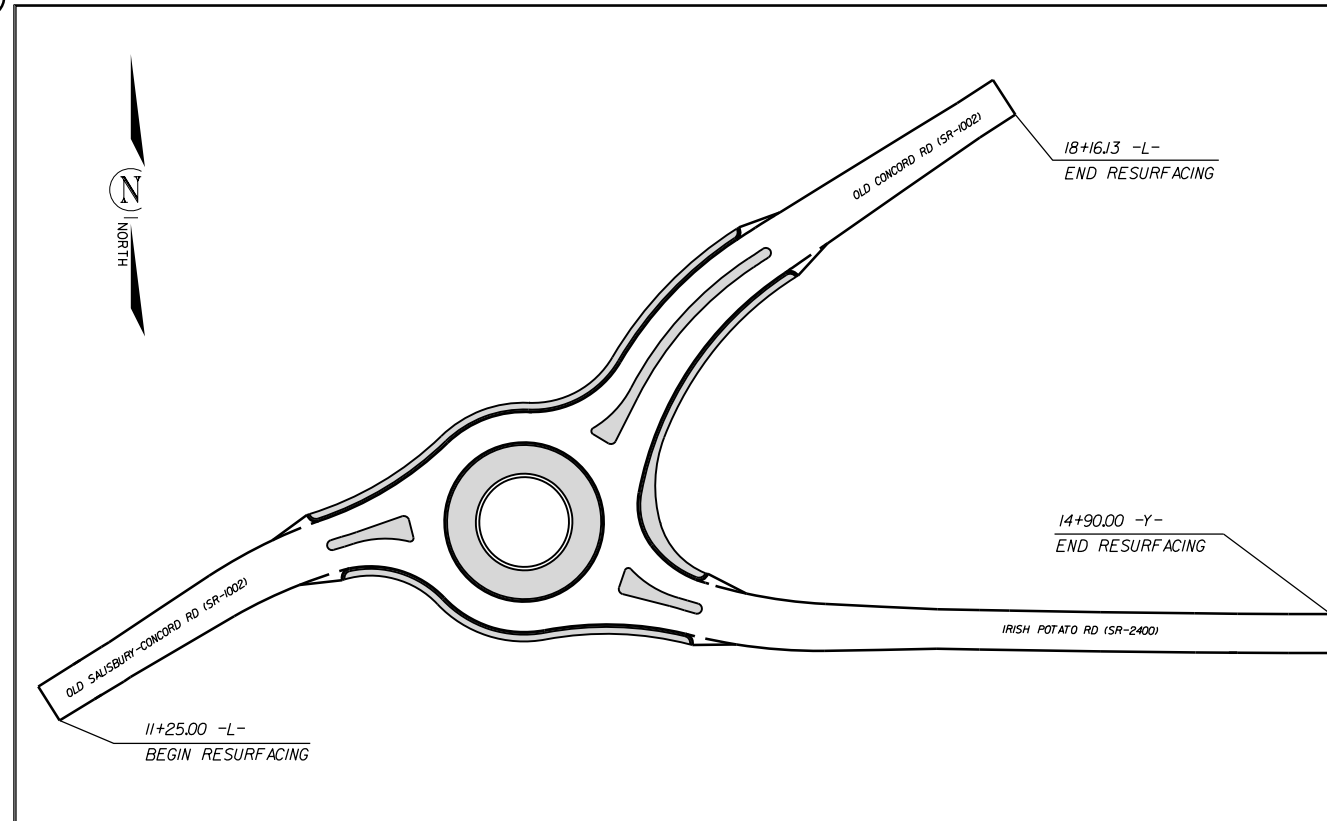
TIP PROJECT: W-5710AO



VICINITY MAP
NOT TO SCALE

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

**LOCATION: INTERSECTION OF OLD CONCORD RD. (SR-1002)
AND IRISH POTATO RD. (SR-2400)**



INSTALL PERIMETER EROSION CONTROL MEASURES DURING INITIAL CLEARING PHASE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5710AO	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44856.1.43	HSIP-1002(056)	P.E.	
44856.2.43	HSIP-1002(056)	R/W	
44856.3.43	HSIP-1002(056)	CONST.	

EROSION AND SEDIMENT CONTROL MEASURES

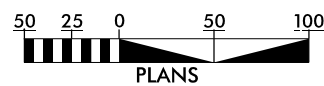
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	HF HF HF
1606.01	Special Sediment Control Fence	HF HF HF
1622.01	Temporary Berms and Slope Drains	TBD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle / Coir Fiber Wattle	WF
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	WF-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDA
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRA
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	RIA
1632.02	Type B	RIAB
1632.03	Type C	RIAC
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

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

HIGH QUALITY WATER(S) EXIST
ON THIS PROJECT

High Quality Water Zone(s) Exist
From Sta. Begin Project
to Sta. End Project
Refer To E. C. Special Provisions
for Special Considerations.

GRAPHIC SCALE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



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

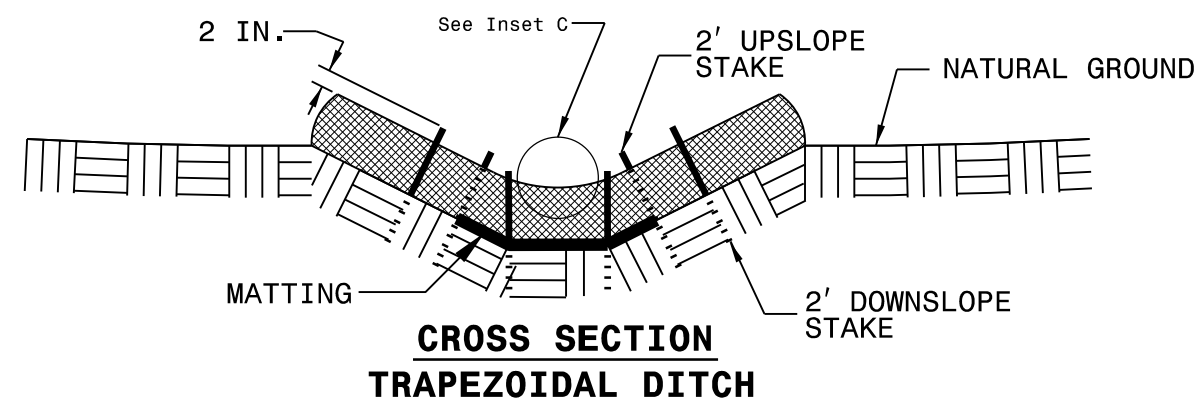
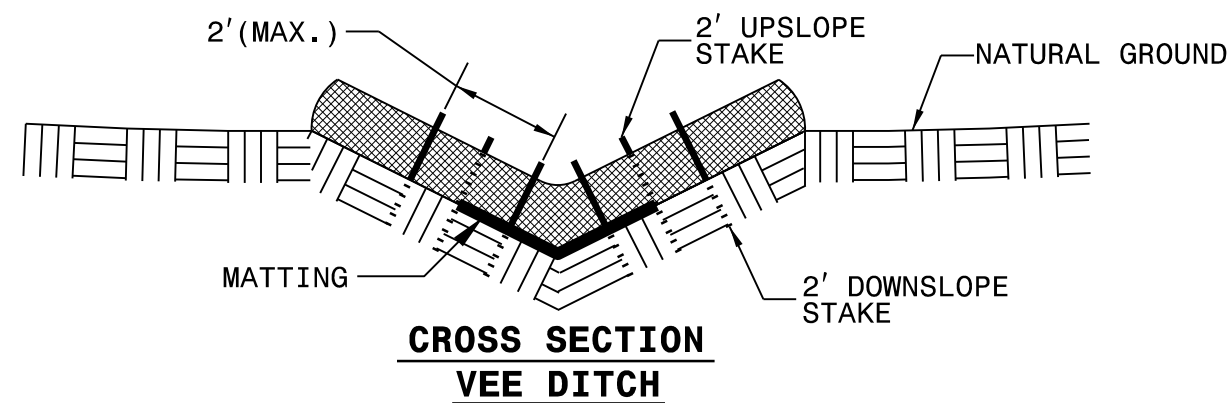
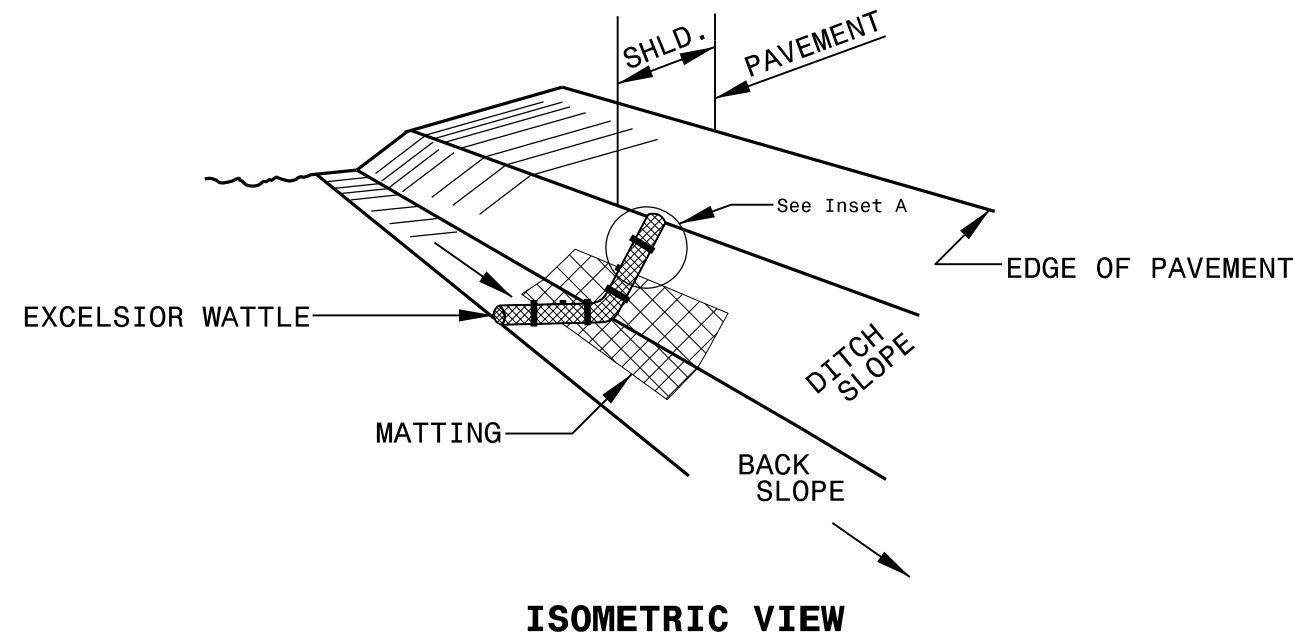
Designed by:
JASON BROOKS 4369
NAME LEVEL III CERTIFICATION NO.

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 B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

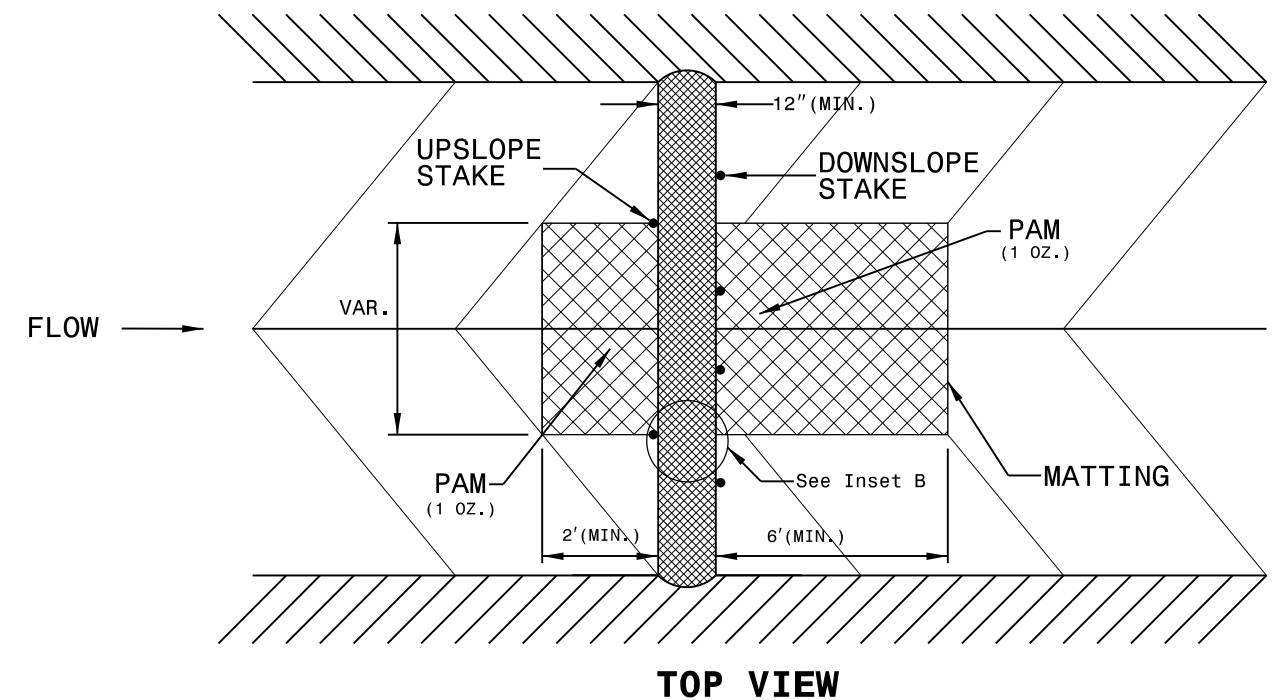
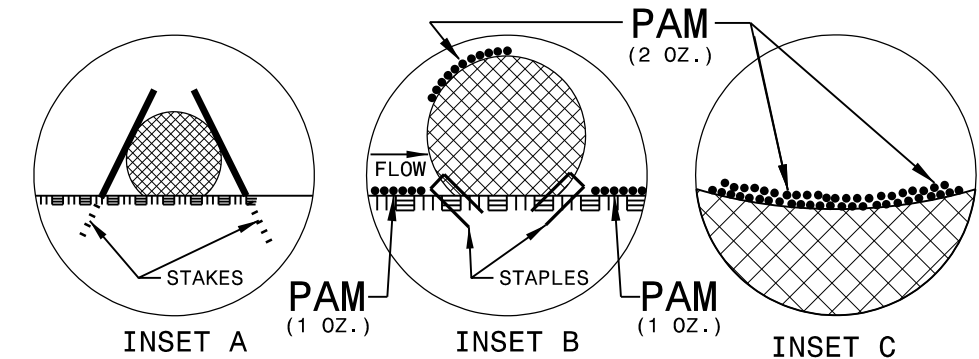
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

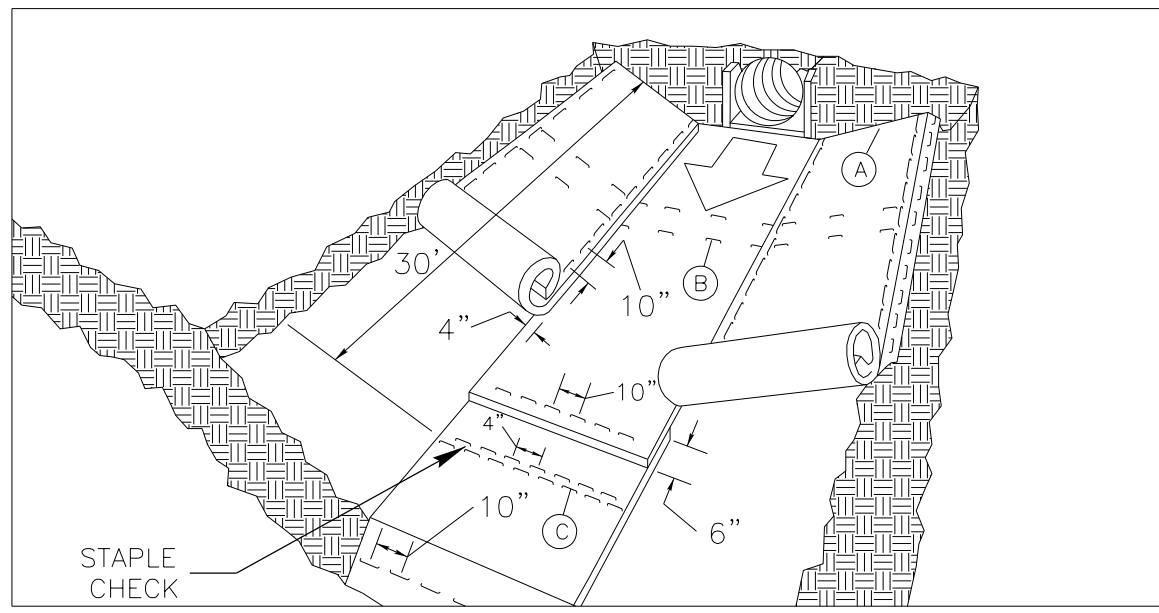
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT REFERENCE NO. 44856.3.43	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATTING INSTALLATION DETAIL



MATTING IN DITCHES

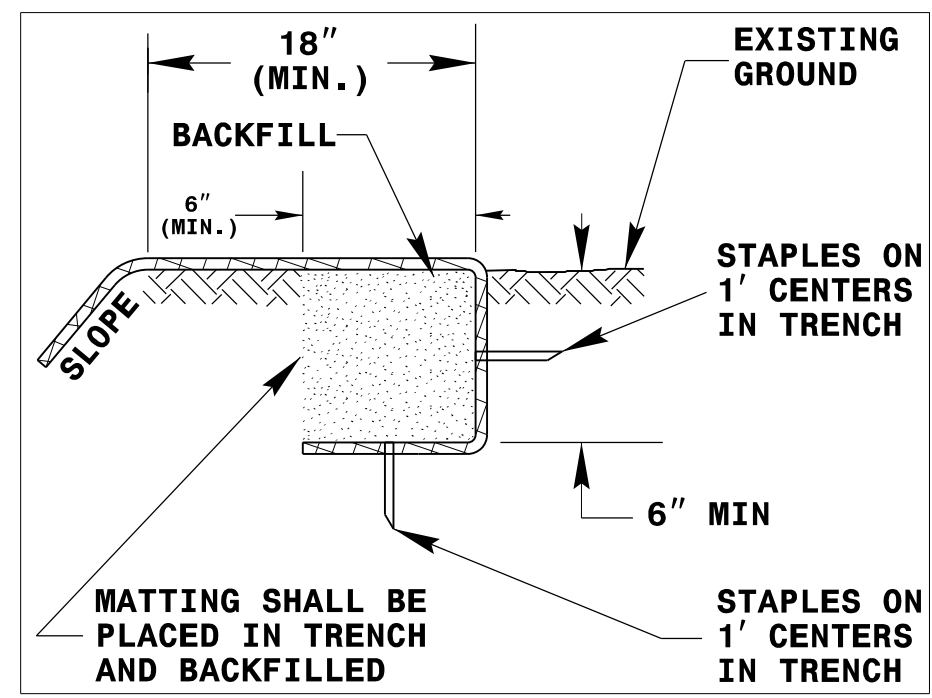
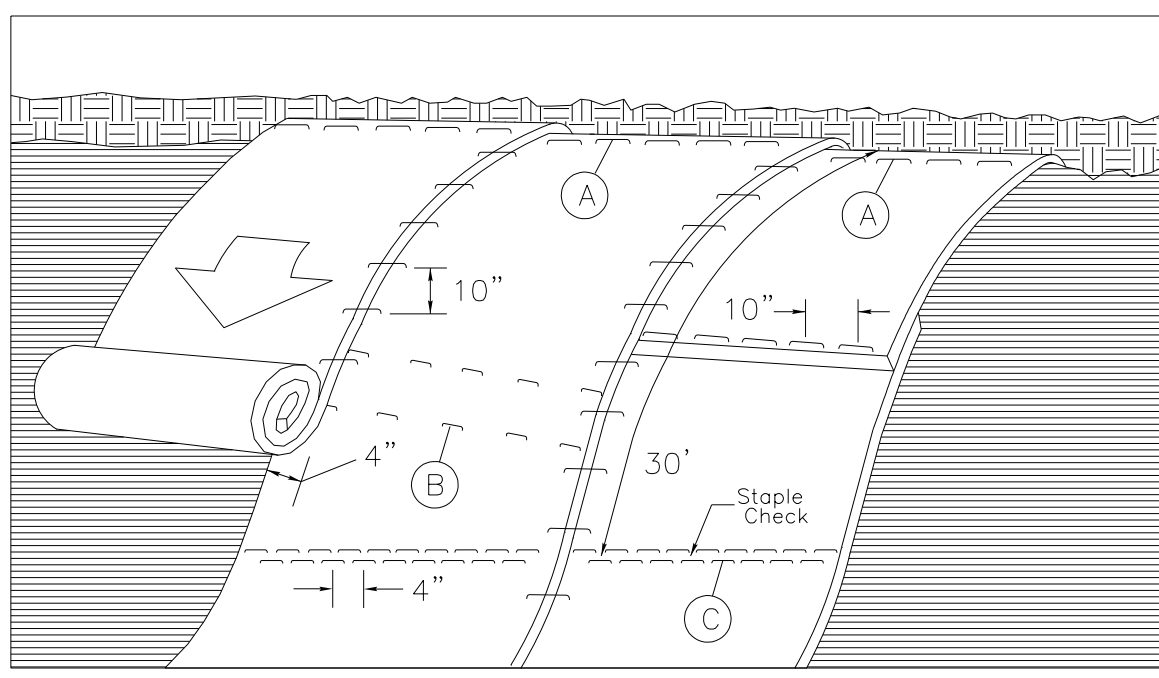


DIAGRAM (A)



MATTING ON SLOPES

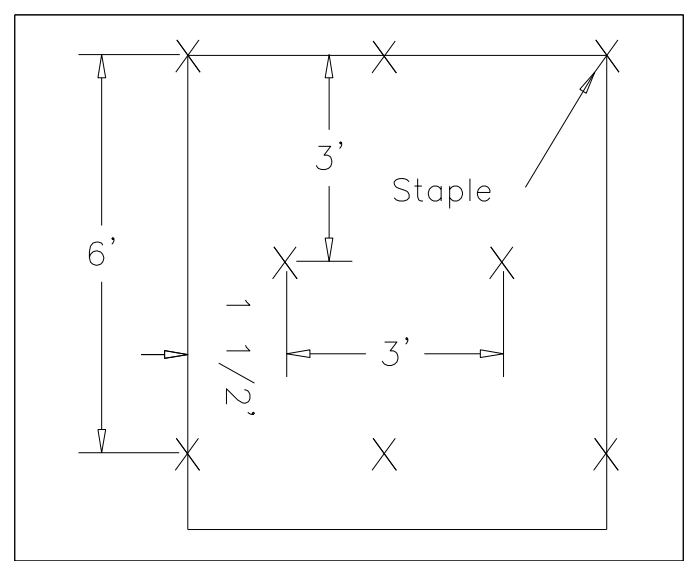


DIAGRAM (B)

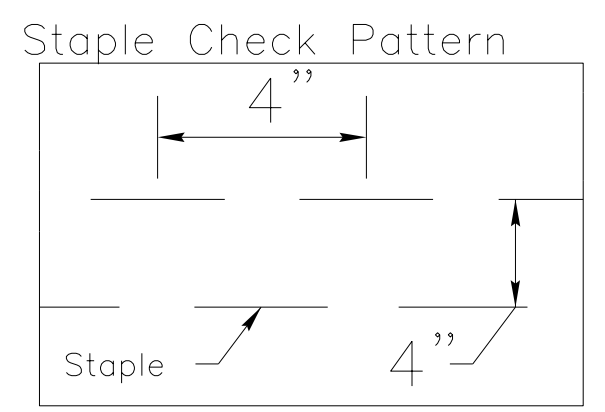


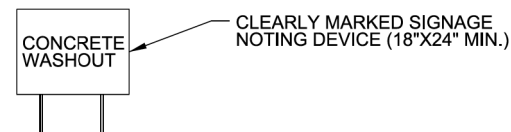
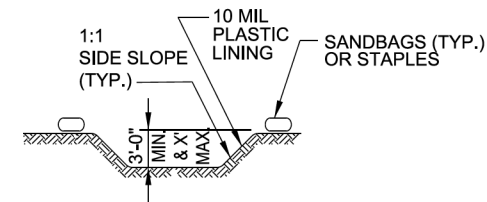
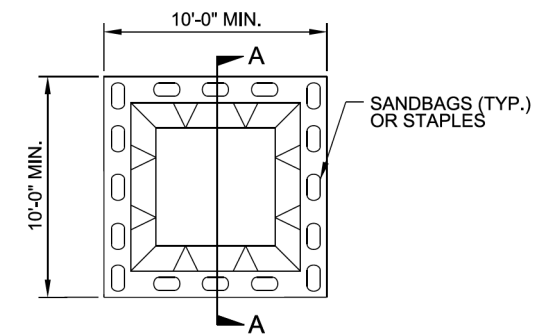
DIAGRAM (C)

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

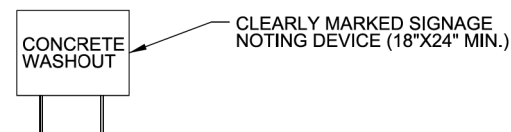
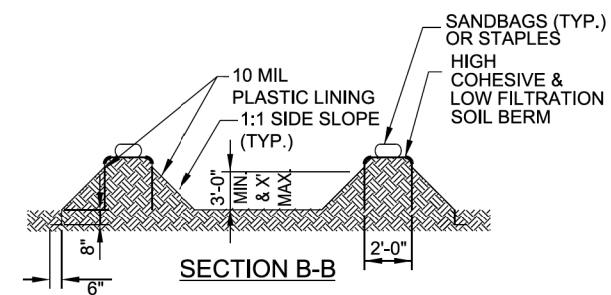
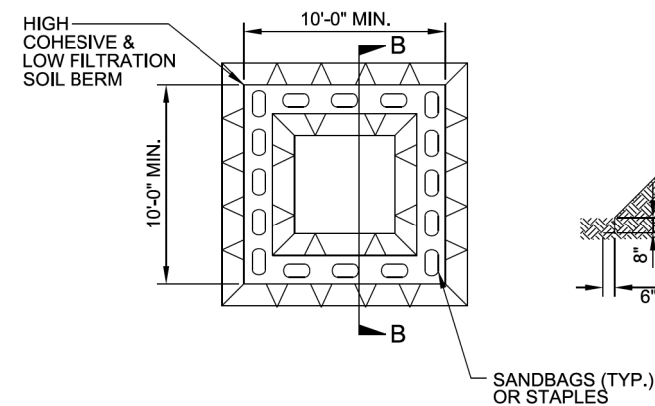
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



PLAN

BELOW GRADE WASHOUT STRUCTURE NOT TO SCALE

- SECTION A-A**
- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



PLAN

ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE

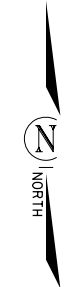
- SECTION B-B**
- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. 44856.3.43	SHEET NO. EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
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.



PI Sta 18+8271-L-
 $\Delta = 0^{\circ} 53' 47.4''$ (RT)
 $D = 0' 10' 58.3''$
 $L = 490.30'$
 $T = 245.16'$
 $R = 31,335.15'$

PI Sta 15+8573-L-
 $\Delta = 29^{\circ} 48' 02.2''$ (RT)
 $D = 28^{\circ} 05' 10.2''$
 $L = 106.10'$
 $T = 54.28'$
 $R = 204.00'$

PI Sta 14+8274-L-
 $\Delta = 27^{\circ} 55' 56.9''$ (LT)
 $D = 28^{\circ} 05' 10.2''$
 $L = 99.45'$
 $T = 50.74'$
 $R = 204.00'$

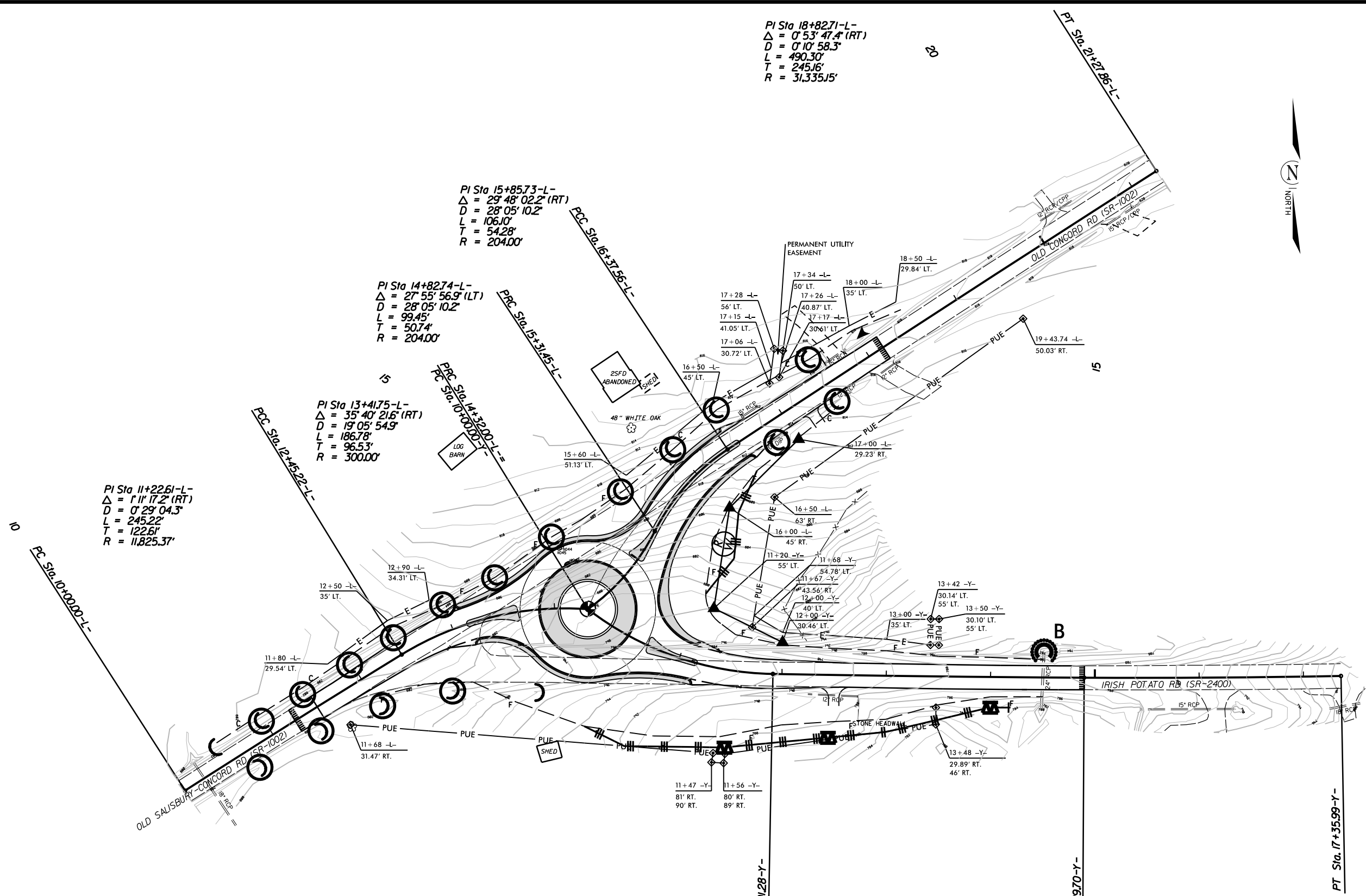
PI Sta 13+4175-L-
 $\Delta = 35^{\circ} 40' 21.6''$ (RT)
 $D = 19^{\circ} 05' 54.9''$
 $L = 186.78'$
 $T = 96.53'$
 $R = 300.00'$

PI Sta 11+2261-L-
 $\Delta = 1^{\circ} 11' 17.2''$ (RT)
 $D = 0^{\circ} 29' 04.3''$
 $L = 245.22'$
 $T = 122.61'$
 $R = 11,825.37'$

PI Sta 10+9902-Y-
 $\Delta = 36^{\circ} 31' 53.1''$ (LT)
 $D = 19^{\circ} 05' 54.9''$
 $L = 191.28'$
 $T = 99.02'$
 $R = 300.00'$

PI Sta 13+4049-Y-
 $\Delta = 0^{\circ} 44' 12.7''$ (LT)
 $D = 0^{\circ} 14' 48.9''$
 $L = 298.42'$
 $T = 149.21'$
 $R = 23,204.44'$

PI Sta 16+1285-Y-
 $\Delta = 1^{\circ} 21' 51.6''$ (LT)
 $D = 0^{\circ} 33' 14.2''$
 $L = 246.29'$
 $T = 123.15'$
 $R = 10,343.14'$



ROUNDABOUT AT THE INTERSECTION OF
 OLD CONCORD RD.(SR-1002) AND
 IRISH POTATO RD.(SR-2400)

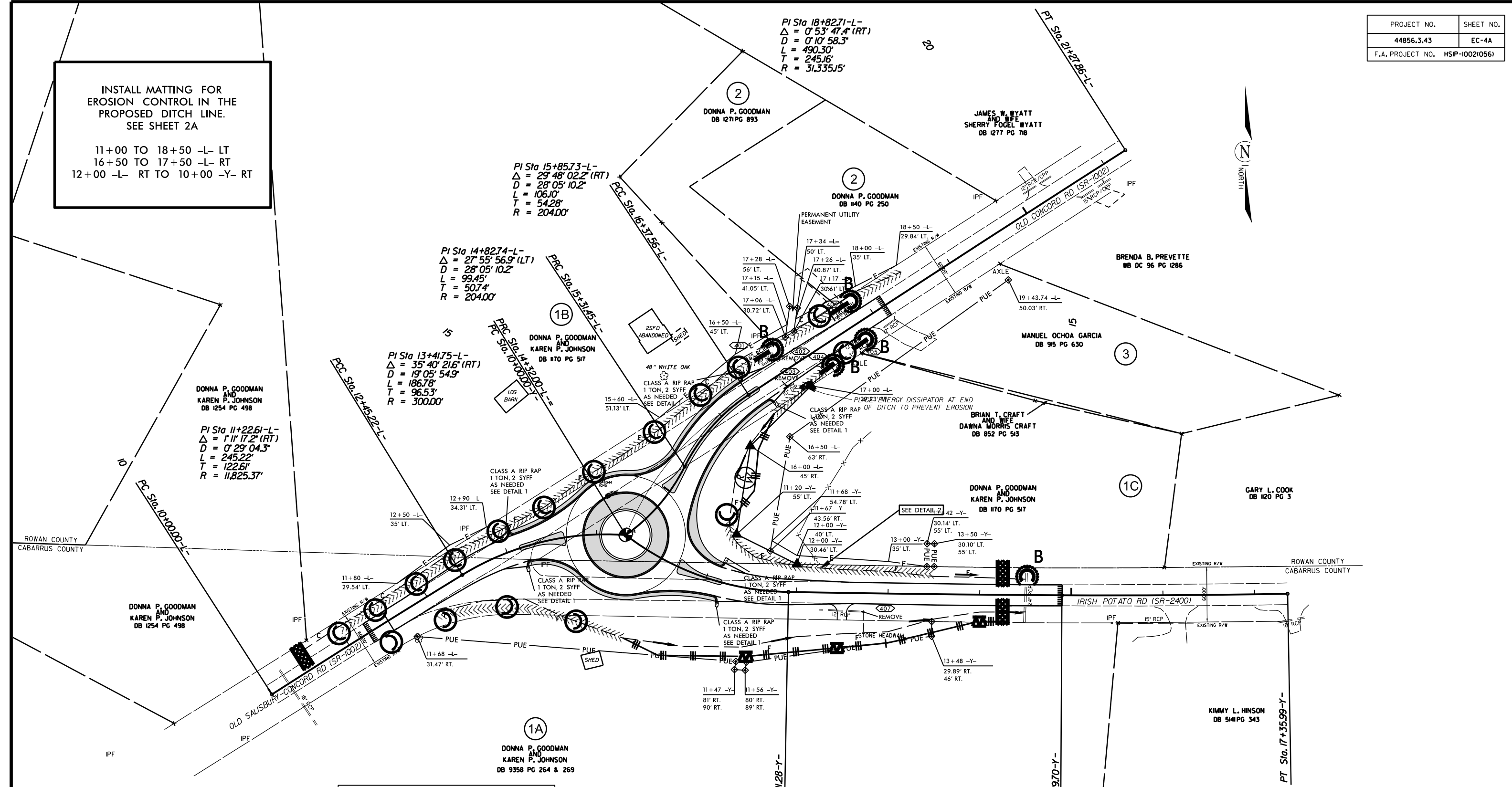
SCALE	r=50'
DATE	7-2021
DWG. BY	JCB
DESIGN BY	JCB
APPROVED	JDH



REVISIONS	

INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE. SEE SHEET 2A

11+00 TO 18+50 -L- LT
 16+50 TO 17+50 -L- RT
 12+00 -L- RT TO 10+00 -Y- RT



PI Sta 11+22.61-L-
 $\Delta = 1^{\circ} 17' 2''$ (RT)
 $D = 0^{\circ} 29' 04.3''$
 $L = 245.22'$
 $T = 122.61'$
 $R = 11,825.37'$

PI Sta 13+41.75-L-
 $\Delta = 35^{\circ} 40' 21.6''$ (RT)
 $D = 19^{\circ} 05' 54.9''$
 $L = 186.78'$
 $T = 96.53'$
 $R = 300.00'$

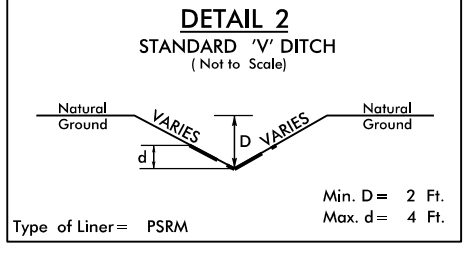
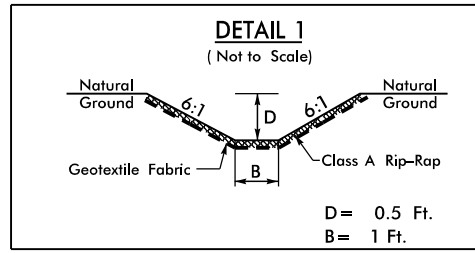
PI Sta 15+85.73-L-
 $\Delta = 29^{\circ} 48' 02.2''$ (RT)
 $D = 28^{\circ} 05' 10.2''$
 $L = 106.10'$
 $T = 54.28'$
 $R = 204.00'$

PI Sta 18+82.71-L-
 $\Delta = 0^{\circ} 53' 47.4''$ (RT)
 $D = 0^{\circ} 10' 58.3''$
 $L = 490.30'$
 $T = 245.16'$
 $R = 31,335.15'$

PI Sta 10+99.02-Y-
 $\Delta = 36^{\circ} 31' 53.1''$ (LT)
 $D = 19^{\circ} 05' 54.9''$
 $L = 191.28'$
 $T = 99.02'$
 $R = 300.00'$

PI Sta 13+40.49-Y-
 $\Delta = 0^{\circ} 44' 12.7''$ (LT)
 $D = 0^{\circ} 14' 48.9''$
 $L = 298.42'$
 $T = 149.21'$
 $R = 23,204.44'$

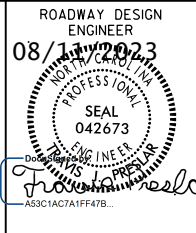
PI Sta 16+12.85-Y-
 $\Delta = 1^{\circ} 21' 51.6''$ (LT)
 $D = 0^{\circ} 33' 14.2''$
 $L = 246.29'$
 $T = 123.15'$
 $R = 10,343.14'$



FROM STA. 11+00 TO STA. 13+50 -Y- LT.

ROUNDABOUT AT THE INTERSECTION OF OLD CONCORD RD.(SR-1002) AND IRISH POTATO RD.(SR-2400)

SCALE	1"=50'			REVISIONS
DATE	7-2021			
DWG. BY	JCB			
DESIGN BY	JCB			
APPROVED	JDH			



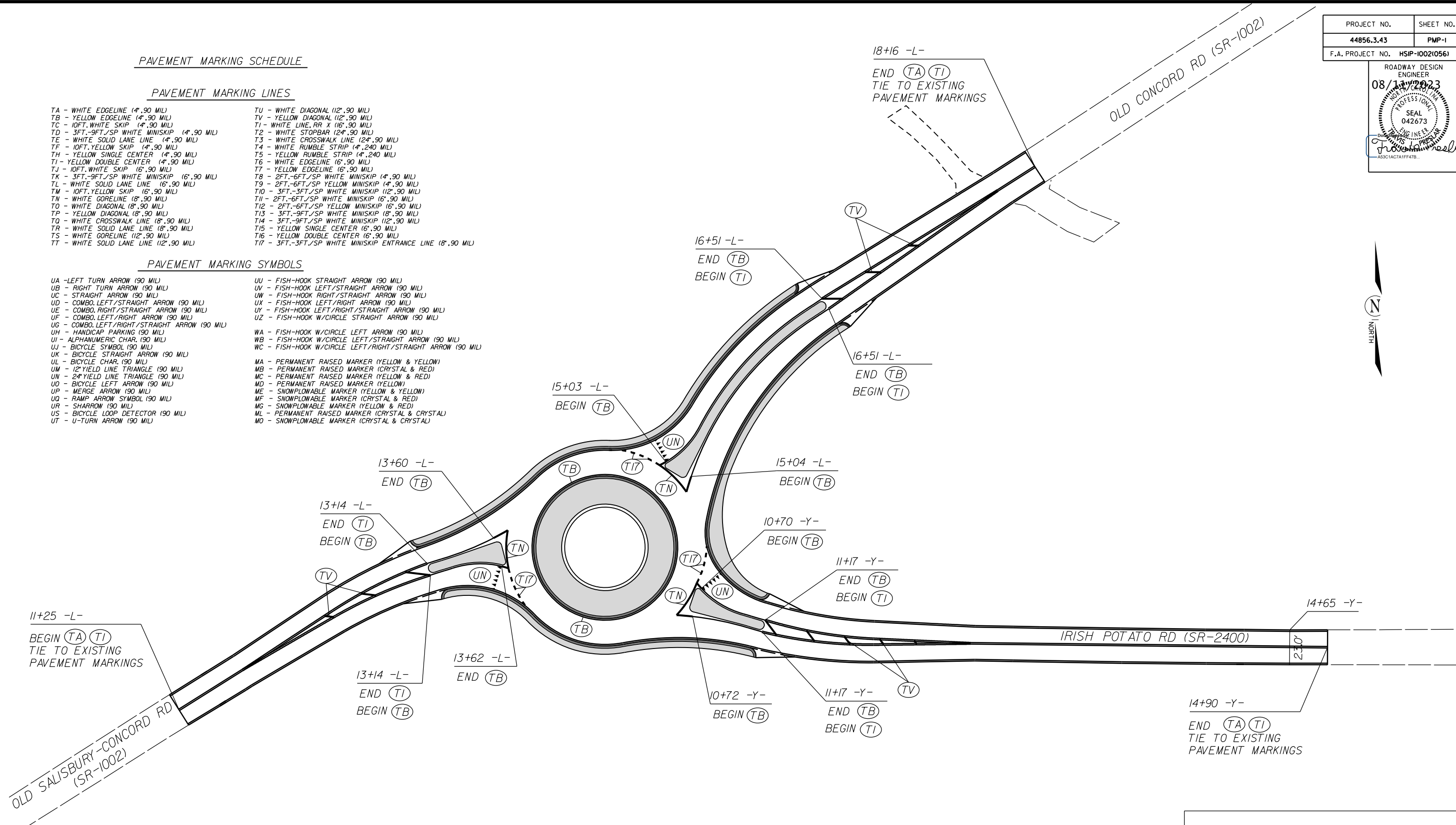
PAVEMENT MARKING SCHEDULE

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 (6'.90 MIL) |
| TJ - 10FT. WHITE SKIP (6'.90 MIL) | T7 - YELLOW EDGELINE (6'.90 MIL) |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6'.90 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4'.90 MIL) |
| TL - WHITE SOLID LANE LINE (6'.90 MIL) | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4'.90 MIL) |
| TM - 10FT. YELLOW SKIP (6'.90 MIL) | T10 - 3FT.-3FT./SP WHITE MINISKIP (12'.90 MIL) |
| TN - WHITE GORELINE (8'.90 MIL) | T11 - 2FT.-6FT./SP WHITE MINISKIP (6'.90 MIL) |
| TO - WHITE DIAGONAL (8'.90 MIL) | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6'.90 MIL) |
| TP - YELLOW DIAGONAL (8'.90 MIL) | T13 - 3FT.-9FT./SP WHITE MINISKIP (8'.90 MIL) |
| TQ - WHITE CROSSWALK LINE (8'.90 MIL) | T14 - 3FT.-9FT./SP WHITE MINISKIP (12'.90 MIL) |
| TR - WHITE SOLID LANE LINE (8'.90 MIL) | T15 - YELLOW SINGLE CENTER (6'.90 MIL) |
| TS - WHITE GORELINE (12'.90 MIL) | T16 - YELLOW DOUBLE CENTER (6'.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/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. (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) | |



ROUNDABOUT AT THE INTERSECTION OF
OLD CONCORD RD.(SR-1002) AND
IRISH POTATO RD.(SR-2400)

SCALE	r=30'		REVISIONS
DATE	5-2021		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
CABARRUS COUNTY**

LOCATION: ROUNDABOUT AT OLD CONCORD RD AND IRISH POTATO RD

PROJECT REFERENCE NO. W-5710AO	SHEET NO. SIGN-01
APPROVED: 6ATDB418C886461	
DATE: 03/30/2023	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

T.I.P.: W-5710AO

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

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.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . 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.

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	300	L.F.
4096000000	904	SIGN ERECTION, TYPE D	1	EA.
4102000000	904	SIGN ERECTION, TYPE E	22	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E (GROUND MOUNTED)	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	6	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	1	EA.

PROJECT NOTES

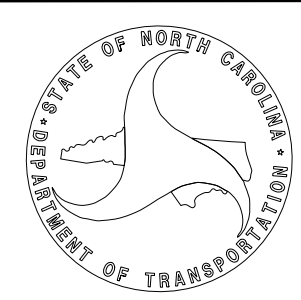
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SUPPORT, U-CHANNEL
- 3 RELOCATE SIGN, TYPE E

INDEX

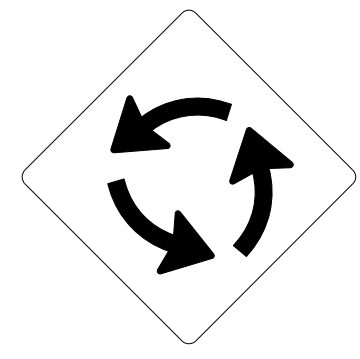
SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	D AND E SHEET
SIGN-3-4	SIGNING PLAN SHEETS

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

K. L. JORDAN SIGNING & DELINEATION REGIONAL ENGINEER
J. G. MARTINEZ, PE SIGNING & DELINEATION PROJECT DESIGN ENGINEER



401 QUANTITY REQ'D 3



30" X 30"
W2-6

ONE "U" POST PER SIGN

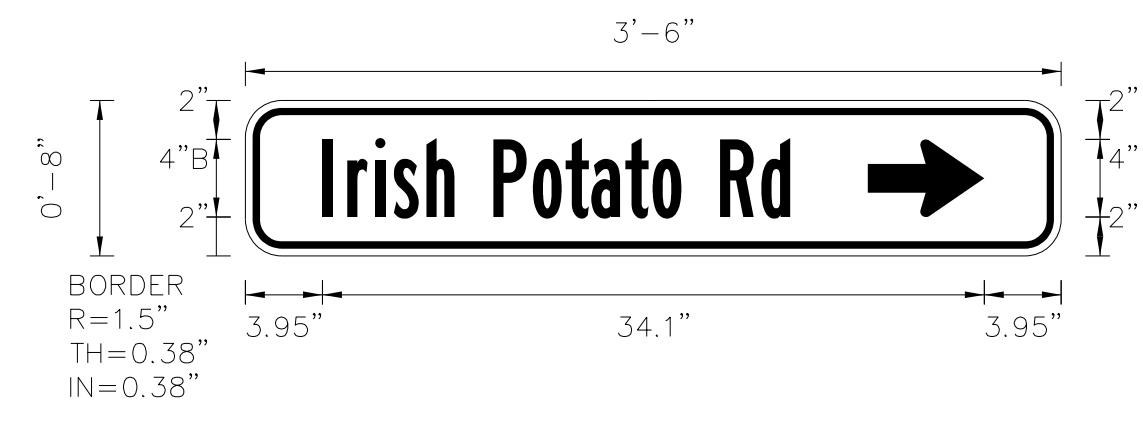
SIGN NUMBER: 406 TYPE: E BACKG COLOR: Yellow COPY COLOR: Black DESIGN BY: jgm CHECKED BY: KLJ Mar 11, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	32	2	4	6

QUANTITY: 1 SIGN WIDTH: 3'-6" HEIGHT: 0'-8" TOTAL AREA: 2.3 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.38" RADII: 1.5" NO. Z BARS: LENGTH: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
B 2000	24.1

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL

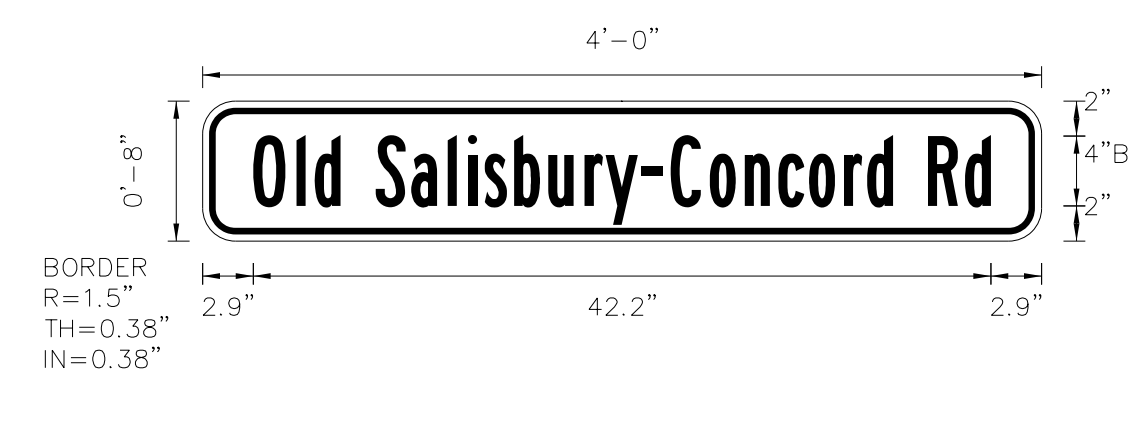
SIGN NUMBER: 408 TYPE: E BACKG COLOR: Yellow COPY COLOR: Black DESIGN BY: jgm CHECKED BY: KLJ Mar 11, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	32	2	4	6

QUANTITY: 1 SIGN WIDTH: 4'-0" HEIGHT: 0'-8" TOTAL AREA: 2.7 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.38" RADII: 1.5" NO. Z BARS: LENGTH: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

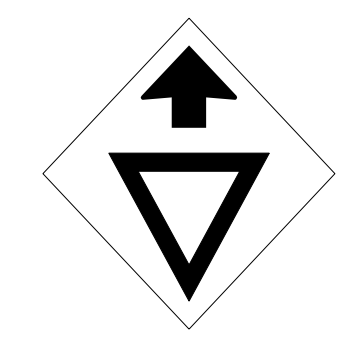
LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
B 2000	42.2

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL

402 QUANTITY REQ'D 3



30" X 30"
W3-2

ONE "U" POST PER SIGN


SIGN NUMBER: 407 TYPE: E BACKG COLOR: Yellow COPY COLOR: Black DESIGN BY: jgm CHECKED BY: KLJ Mar 11, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	4	2	4	6

QUANTITY: 1 SIGN WIDTH: 3'-6" HEIGHT: 0'-8" TOTAL AREA: 2.3 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.38" RADII: 1.5" NO. Z BARS: LENGTH: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
B 2000	24.1

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL

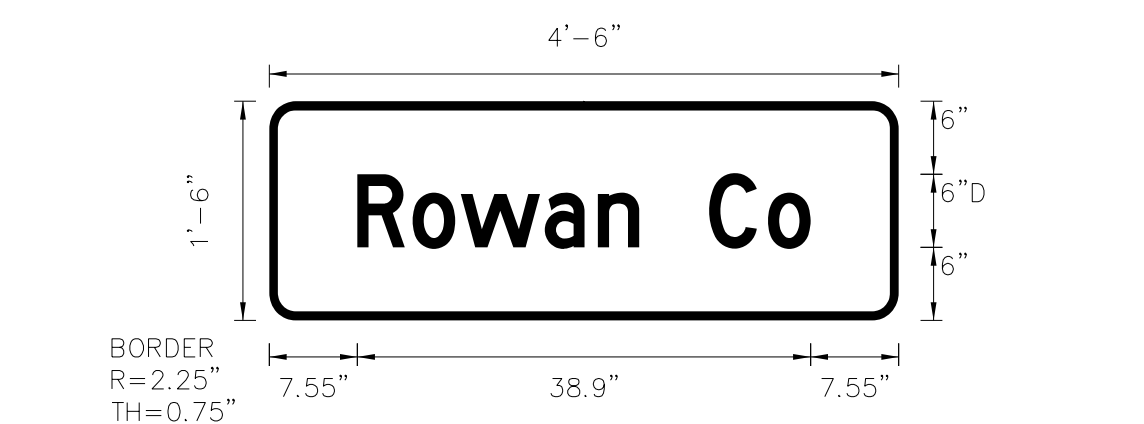
SIGN NUMBER: 301 TYPE: D BACKG COLOR: Green COPY COLOR: White DESIGN BY: jgm CHECKED BY: KLJ Feb 25, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	4	2	4	6

QUANTITY: 1 SIGN WIDTH: 4'-6" HEIGHT: 1'-6" TOTAL AREA: 6.8 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 2.25" NO. Z BARS: LENGTH: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

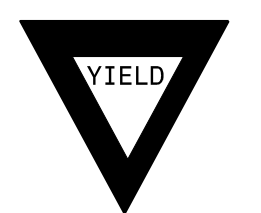
LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	38.9

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL

403 QUANTITY REQ'D 6



36" X 36" X 36"
R1-2

ONE "U" POST PER SIGN


SIGN NUMBER: 407 TYPE: E BACKG COLOR: Yellow COPY COLOR: Black DESIGN BY: jgm CHECKED BY: KLJ Mar 11, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	4	2	4	6

QUANTITY: 1 SIGN WIDTH: 3'-6" HEIGHT: 0'-8" TOTAL AREA: 2.3 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.38" RADII: 1.5" NO. Z BARS: LENGTH: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
B 2000	24.1

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL

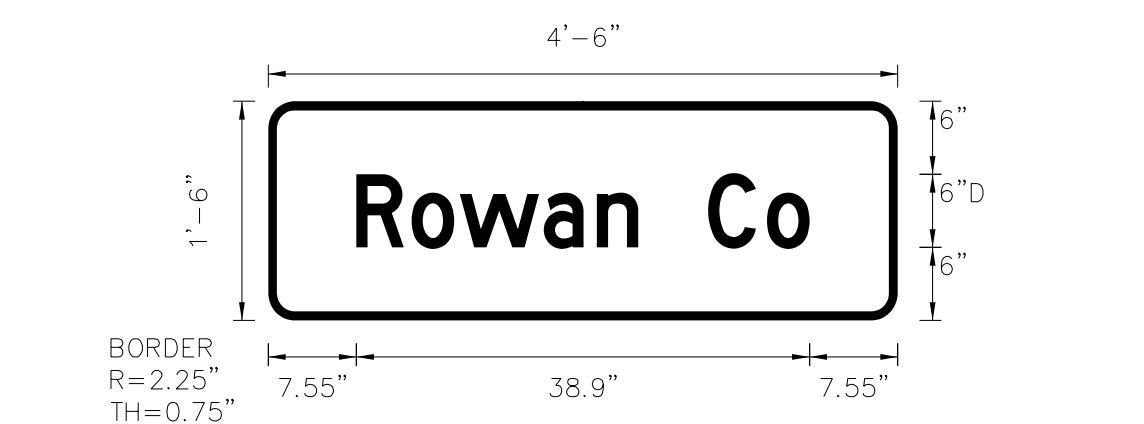
SIGN NUMBER: 301 TYPE: D BACKG COLOR: Green COPY COLOR: White DESIGN BY: jgm CHECKED BY: KLJ Feb 25, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	4	2	4	6

QUANTITY: 1 SIGN WIDTH: 4'-6" HEIGHT: 1'-6" TOTAL AREA: 6.8 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 2.25" NO. Z BARS: LENGTH: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

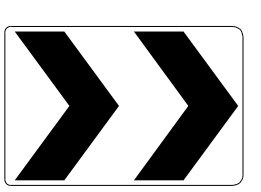
LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	38.9

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL

404 QUANTITY REQ'D 3



30" X 24"
R6-4

ONE "U" POST PER SIGN


SIGN NUMBER: 407 TYPE: E BACKG COLOR: Yellow COPY COLOR: Black DESIGN BY: jgm CHECKED BY: KLJ Mar 11, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	4	2	4	6

QUANTITY: 1 SIGN WIDTH: 3'-6" HEIGHT: 0'-8" TOTAL AREA: 2.3 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.38" RADII: 1.5" NO. Z BARS: LENGTH: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
B 2000	24.1

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL

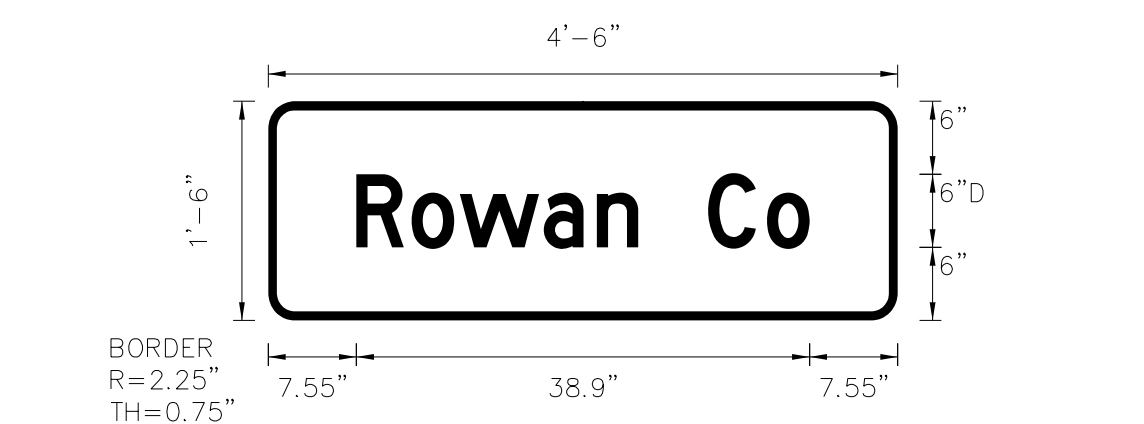
SIGN NUMBER: 301 TYPE: D BACKG COLOR: Green COPY COLOR: White DESIGN BY: jgm CHECKED BY: KLJ Feb 25, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	4	2	4	6

QUANTITY: 1 SIGN WIDTH: 4'-6" HEIGHT: 1'-6" TOTAL AREA: 6.8 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 2.25" NO. Z BARS: LENGTH: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	38.9

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL

405 QUANTITY REQ'D 1



24" X 30"
R2-1

ONE "U" POST PER SIGN


SIGN NUMBER: 406 TYPE: E BACKG COLOR: Yellow COPY COLOR: Black DESIGN BY: jgm CHECKED BY: KLJ Mar 11, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	4	2	4	6

QUANTITY: 1 SIGN WIDTH: 3'-6" HEIGHT: 0'-8" TOTAL AREA: 2.3 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.38" RADII: 1.5" NO. Z BARS: LENGTH: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
B 2000	24.1

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL


SIGN NUMBER: 407 TYPE: E BACKG COLOR: Yellow COPY COLOR: Black DESIGN BY: jgm CHECKED BY: KLJ Mar 11, 2022 PROJECT ID: W-5710AO LOCATION: DIV: 10

SYMBOL	X	Y	WID	HT
AR_Type D	4	2	4	6

QUANTITY: 1 SIGN WIDTH: 3'-6" HEIGHT: 0'-8" TOTAL AREA: 2.3 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.38" WIDTH: 0.38" RADII: 1.5" NO. Z BARS: LENGTH: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
B 2000	24.1

FILENAME: W-5710AO_Sign_Design NORTH CAROLINA D.O.T. SIGN DETAIL

408 QUANTITY REQ'D 1



48" X 8"
W16-8P

MOUNT BELOW SIGN 401
IN .1. INSTALLATIONS

SEE SIGN DESIGN

407 QUANTITY REQ'D 3



48" X 8"
W16-8P

MOUNT BELOW SIGN 401
IN .1. INSTALLATIONS

SEE SIGN DESIGN

407 QUANTITY REQ'D 3



48" X 8"
W16-8P

MOUNT BELOW SIGN 401
IN .1. INSTALLATIONS

SEE SIGN DESIGN

407 QUANTITY REQ'D 3



48" X 8"
W16-8P

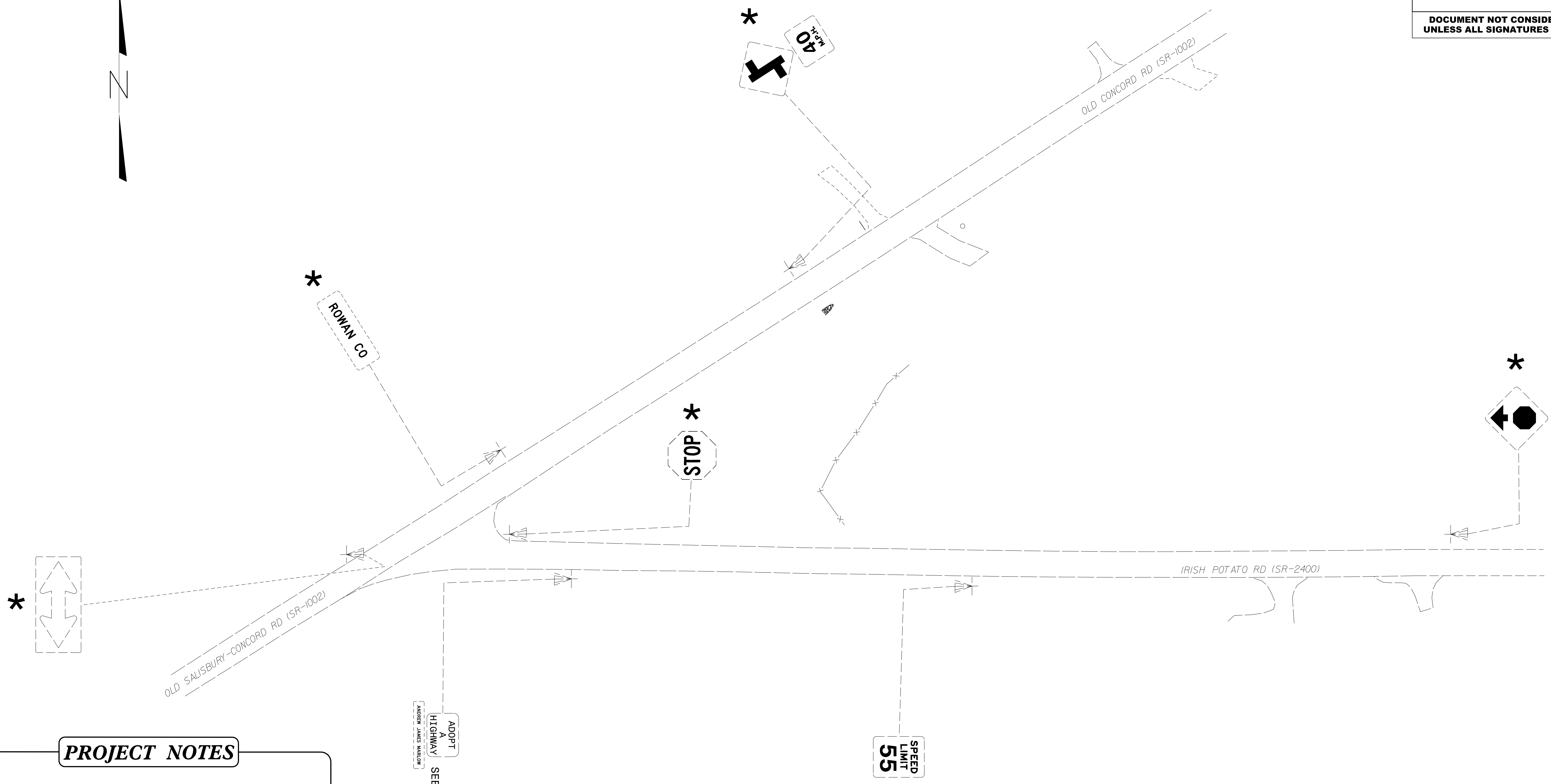
MOUNT BELOW SIGN 401
IN .1. INSTALLATIONS

SEE SIGN DESIGN

ONE "U" POST PER SIGN

TYPE "D" & "E" SIGNS

03/29/23 U:\Projects\2022_Sign_Designs\Div 10\W-5710AO.DGN\W-5710AO_Signing.dgn




PROJECT NOTES

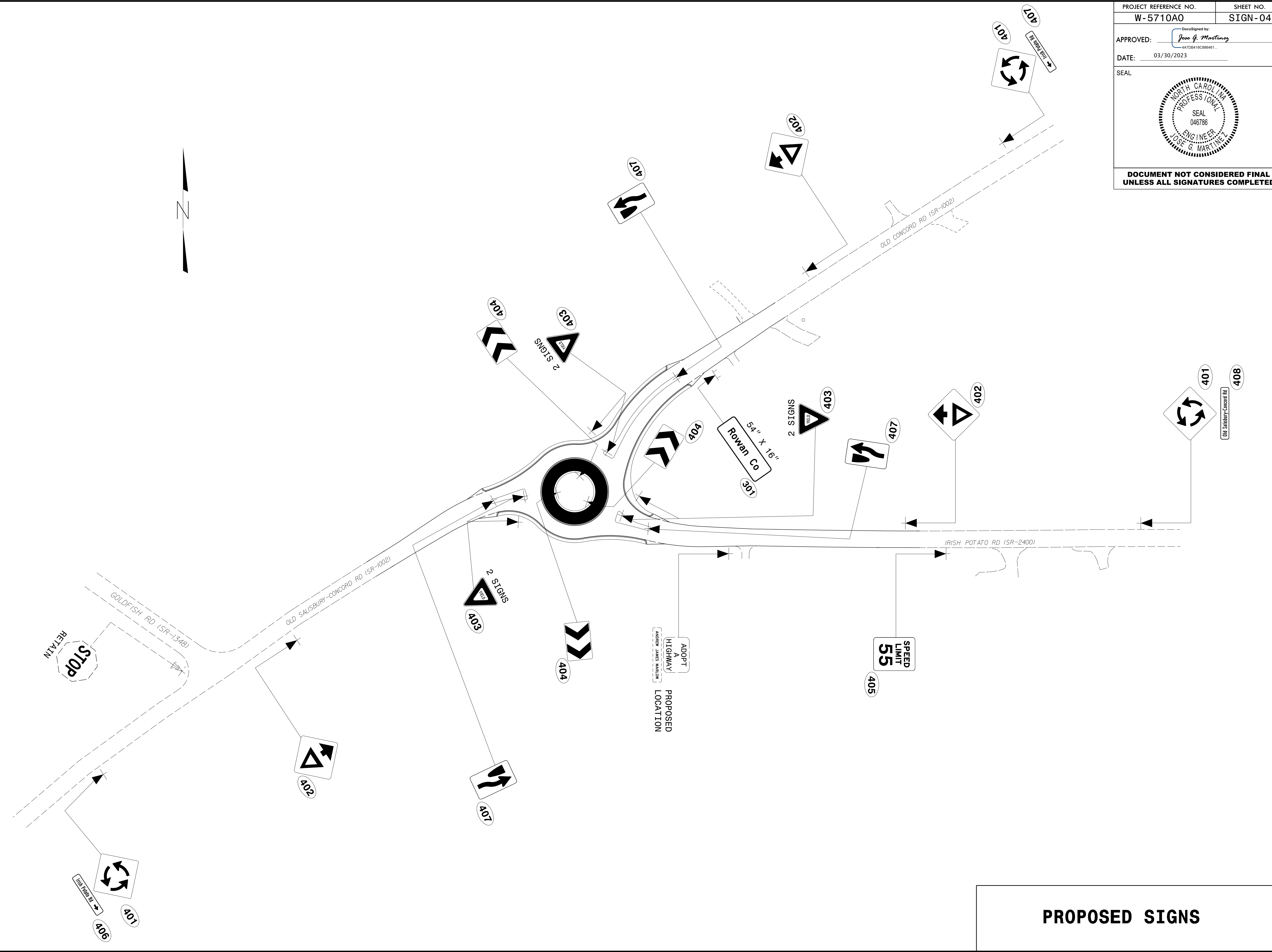
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SUPPORT, U-CHANNEL
- 3 RELOCATE SIGN, TYPE E

ADOPT
A
HIGHWAY
SEE NOTES 2&3

* SEE NOTE 1

EXISTING SIGNS

PROJECT REFERENCE NO. W-5710A0	SHEET NO. SIGN-04
APPROVED: <i>Jose G. Martinez</i> 447DB419C886481...	
DATE: 03/30/2023	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



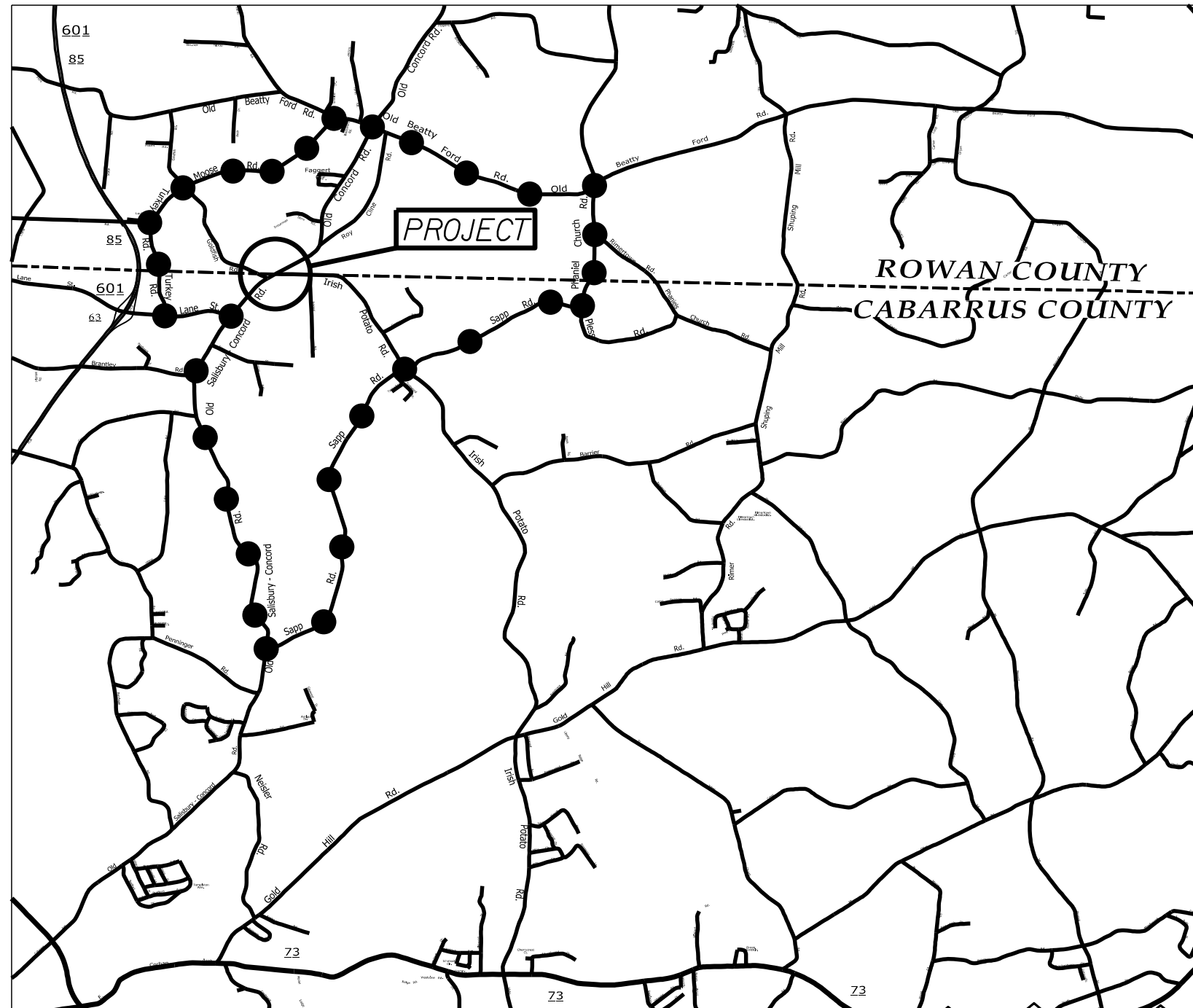
PROPOSED SIGNS

03/29/23
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 User: jmartinez

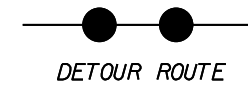
PROJECT NO.	SHEET NO.
44856.3.43	TCP-1

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
 SELINA BLALOCK AT 704-244-8270
 TWO WEEKS PRIOR TO ROAD CLOSURE.



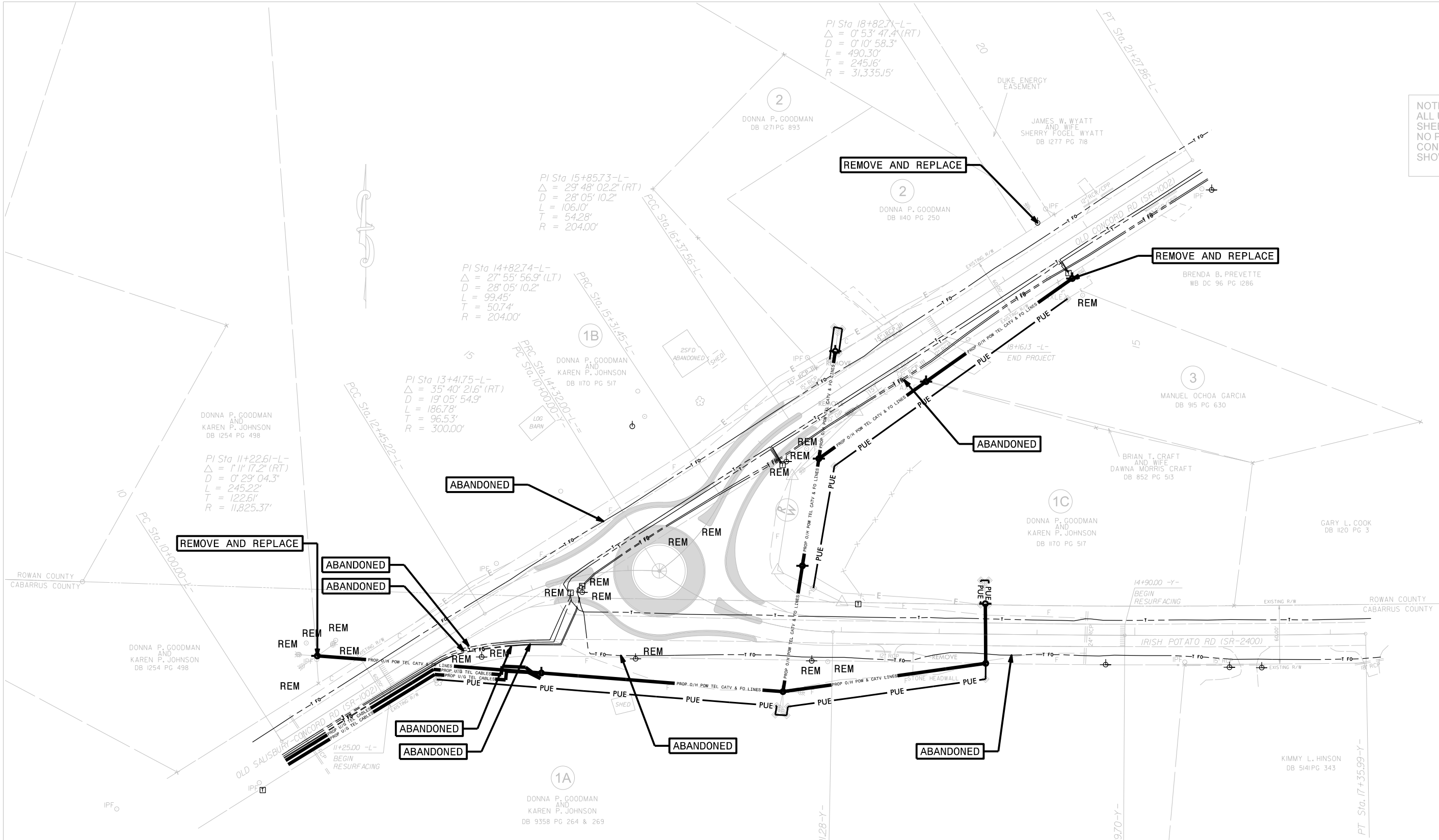
ROUNDBOUT AT THE INTERSECTION OF
 OLD CONCORD RD.(SR-10020 AND
 IRISH POTATO RD.(SR-2400)

SCALE	N/A		REVISIONS
DATE	8-2021		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		

PROJECT NO.	SHEET NO.
44856.3.43	U0-1
THIS SHEET CORRESPONDS TO RDY-4	

UTILITIES BY OTHERS

NOTE:
ALL UTILITY WORK SHOWN IN THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

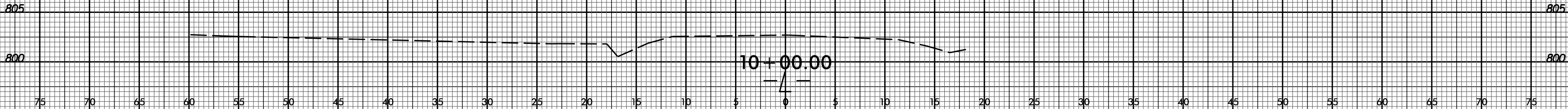
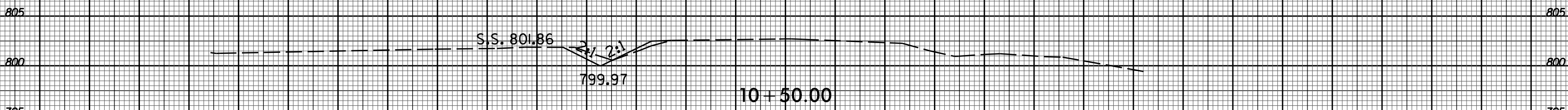
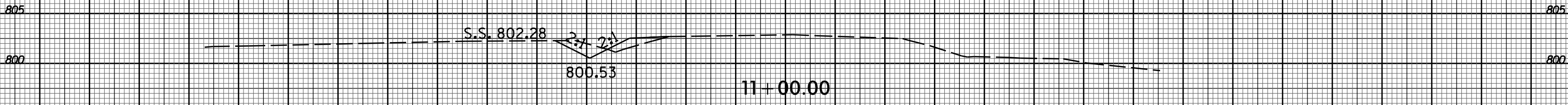
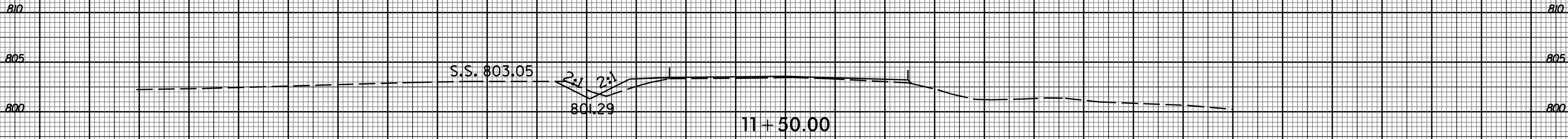


ROUNDABOUT AT THE INTERSECTION OF
OLD CONCORD RD.(SR-1002) AND
IRISH POTATO RD.(SR-2400)

SCALE	1"=50'		REVISIONS
DATE	8-2022		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		



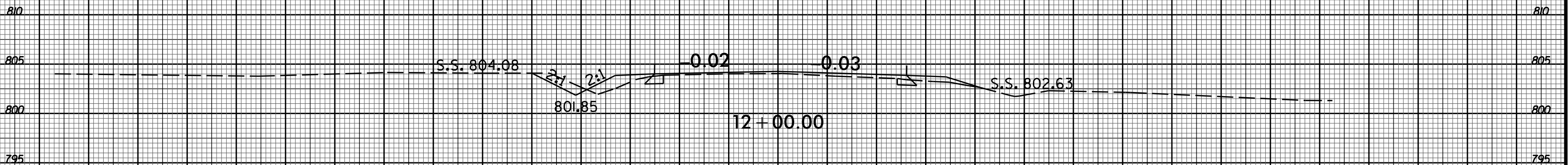
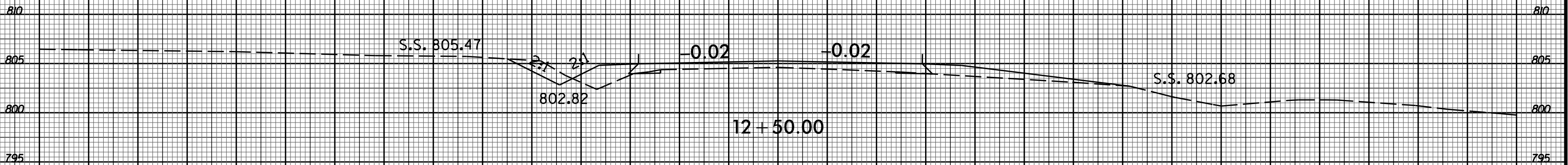
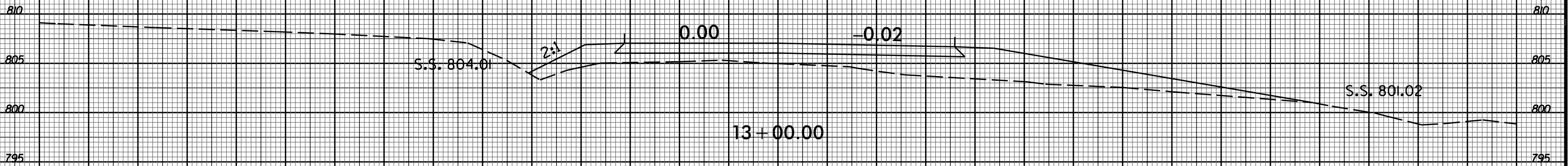
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



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



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

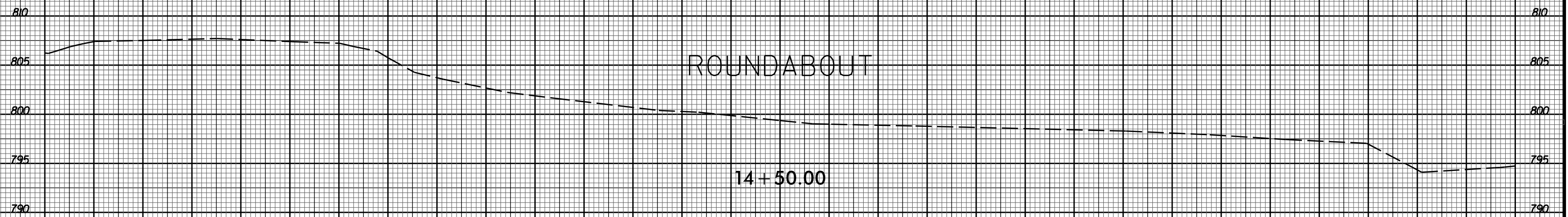


18-OCT-2022 09:33
S:\DDC\PROJ_Corridor\usw-571040_Irish Potato.Dwg Concord_RAB\XSC\W-571040_Irish Potato.Dwg Concord_RAB\XPL\L.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$



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

END ROUNDABOUT 14+97.28 -L-



ROUNDABOUT

14+50.00

ROUNDABOUT

14+00.00

BEGIN ROUNDABOUT 13+66.87 -L-



0.02

-0.02

2:1

4:1

S.S. 805.50

S.S. 799.59

13+50.00

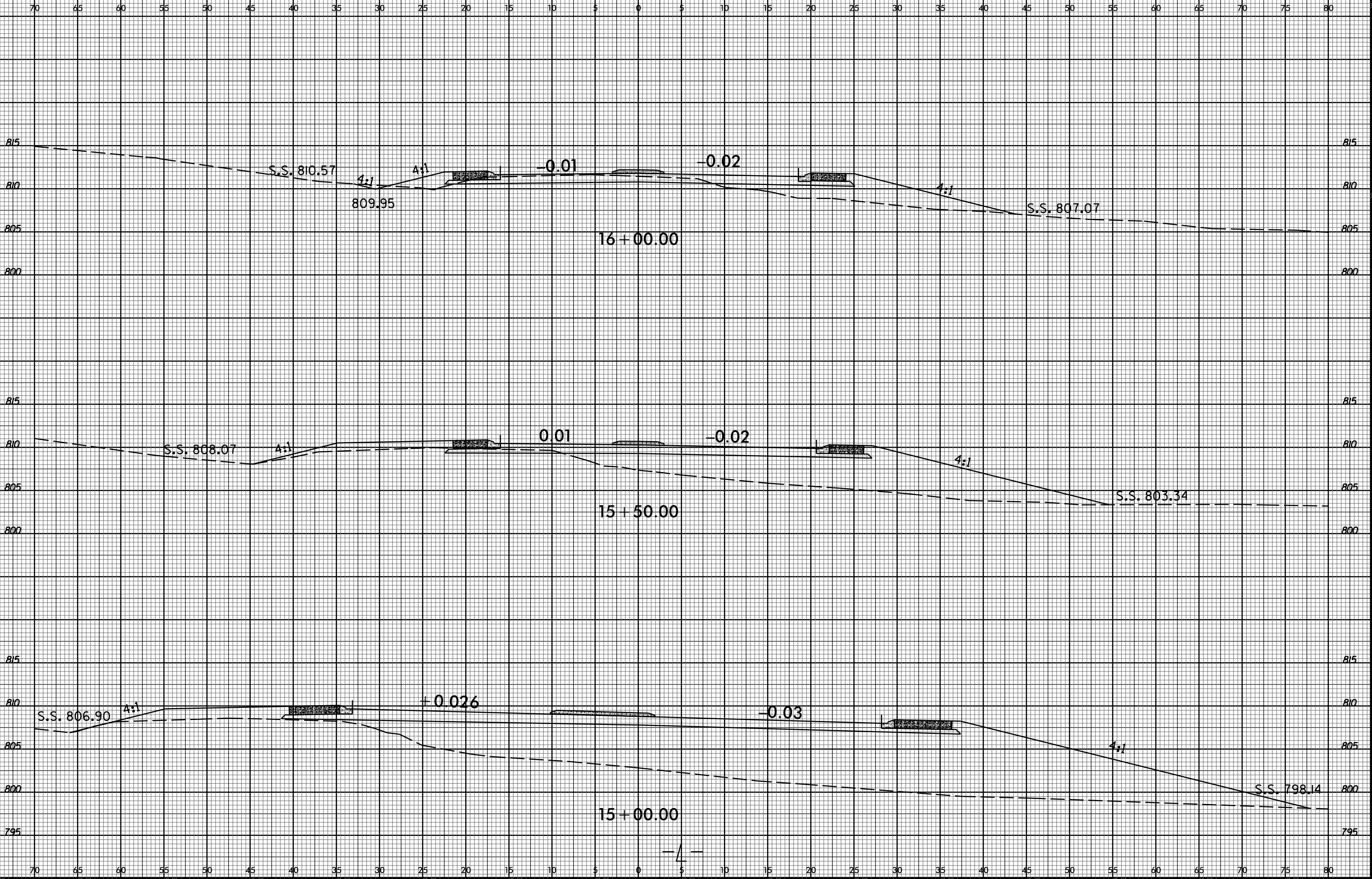
-L-

6/23/16

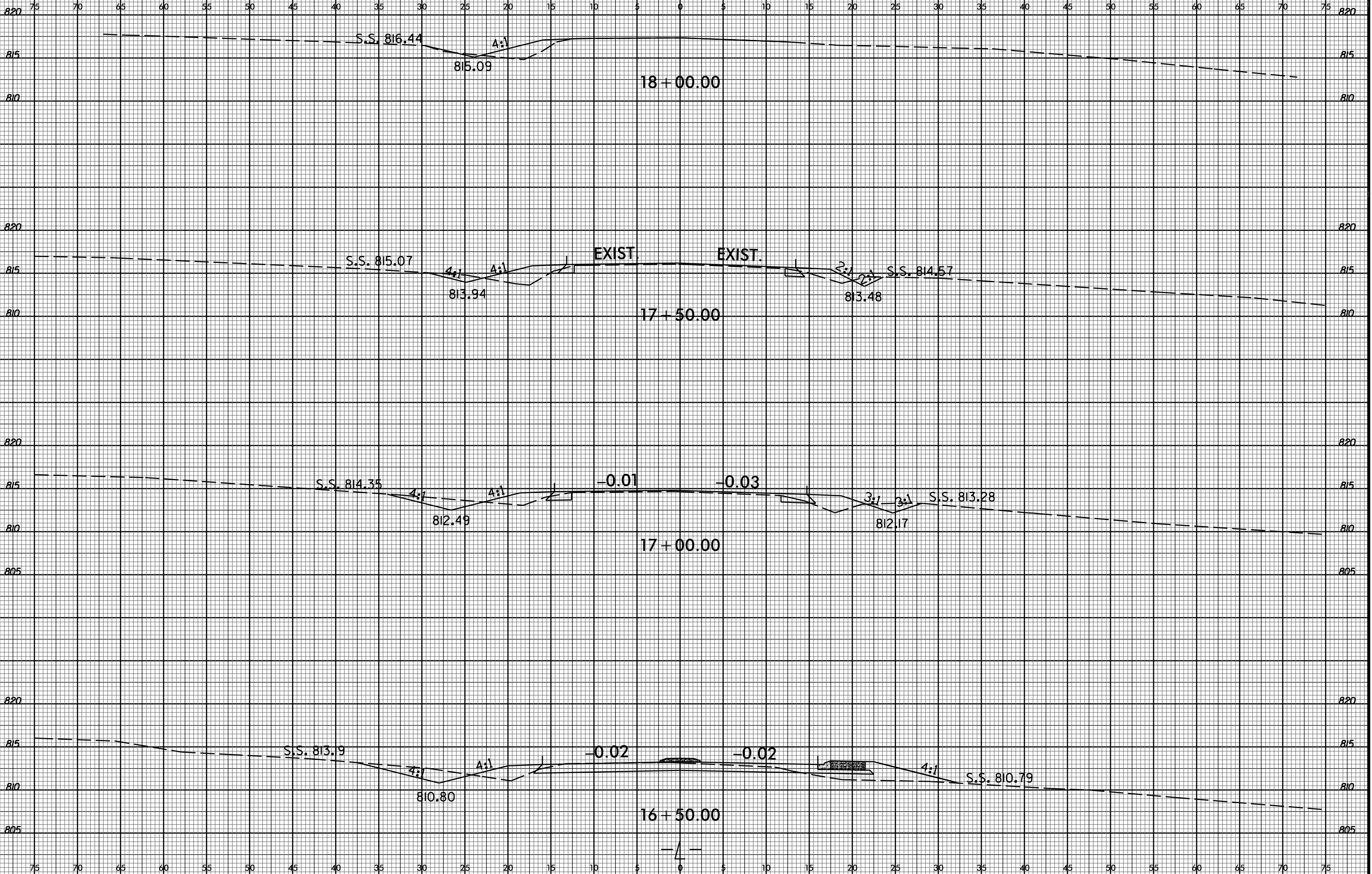


PROJ. REFERENCE NO.
44856.3.43

SHEET NO.
X-4



I:\MAR-2023_07:50
S:\DDC\2023\Concord_RAB\XSC\W-571040.Irish Potato.01d Concord_RAB_xpl.L.dgn
\$\$\$\$\$SERNAME\$\$\$\$\$





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

820 820

815 815

19+00.00

820 820

815 815

18+50.00

S.S. 816.38 3:1

810 810



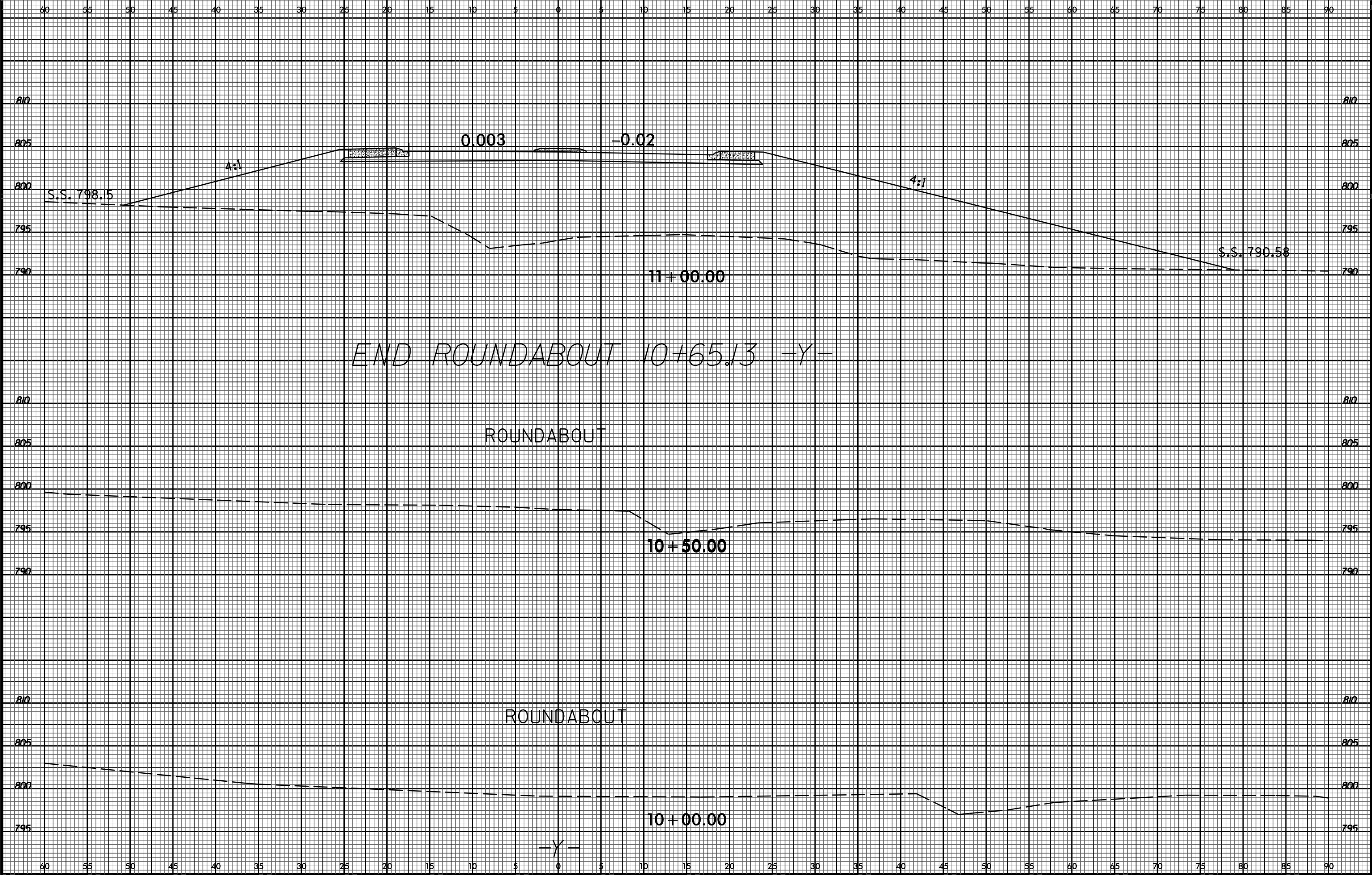
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

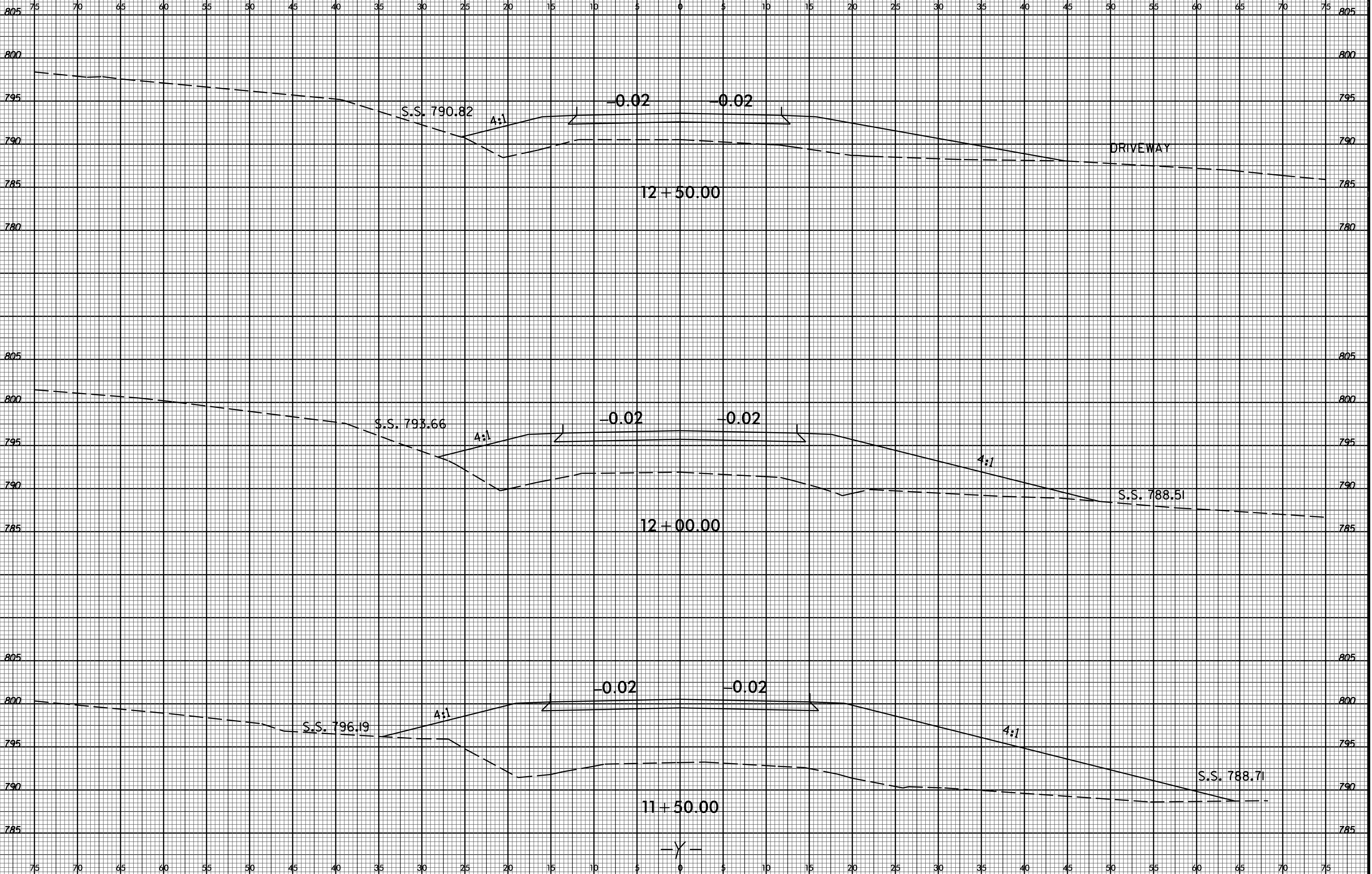


PROJ. REFERENCE NO.
44856.3.43

SHEET NO.
X-7

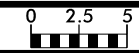


10-MAR-2023 07:52
S:\DDC\BOY\Corpus\W-5710A0.Irish Potato.D1d Concord_RAB.exp1.Y.dgn
\$\$\$USERNAME\$\$\$



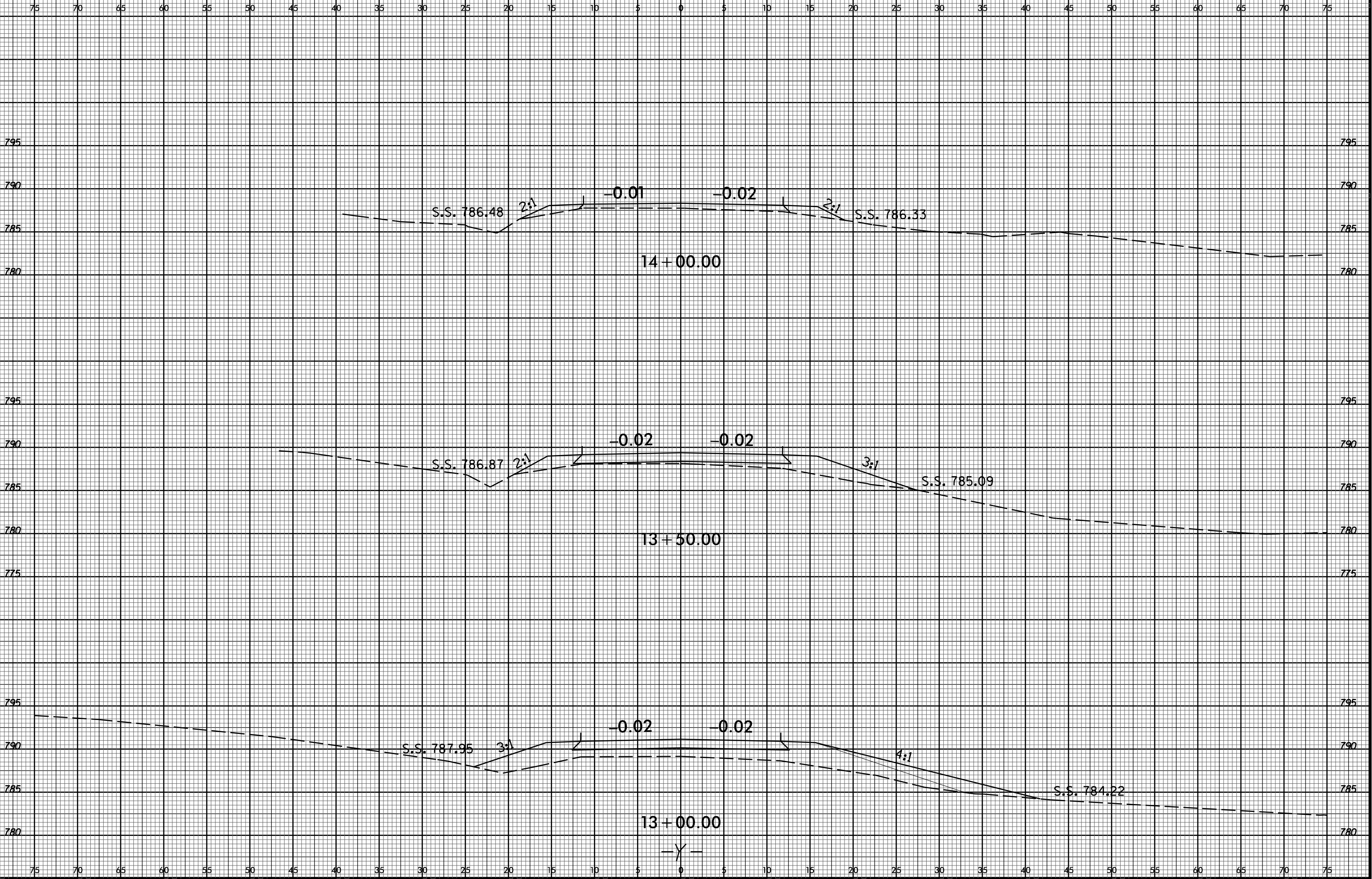
18-OCT-2022 09:36
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\$\$\$\$\$USERNAME\$\$\$\$\$

6/23/16



PROJ. REFERENCE NO.
44856.3.43

SHEET NO.
X-9



18-OCT-2022 09:35
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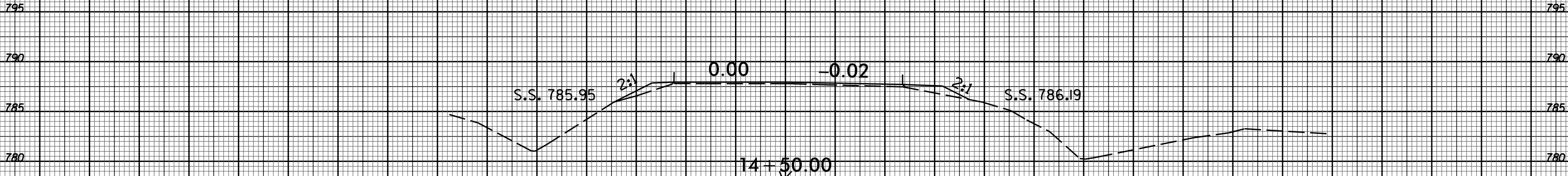
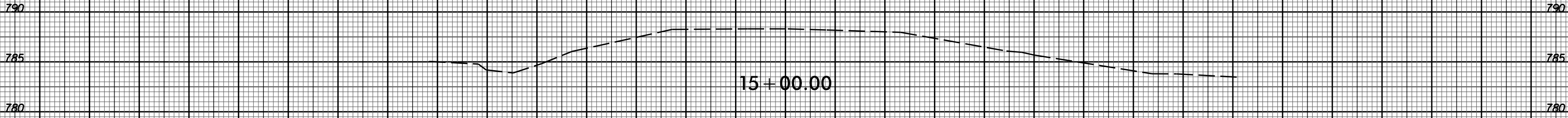
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PROJ. REFERENCE NO.
44856.3.43

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