

PROJECT REFERENCE NO. SHEET NO. JE RAMSEUR 1A

> ROADWAY DESIGN **ENGINEER** Corata Die Ediding 13008

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

FEF: 01-16-2024

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SHEET NUMBER	SHEET
1	TITLE SHEET

INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS 1 A

1 B CONVENTIONAL SYMBOLS

PAVEMENT SCHEDULE AND TYPICAL SECTIONS 2 A - 1

ROADWAY DETAILS 2C-1

3B - 1ROADWAY AND DRAINAGE SUMMARIES

PLAN SHEET PROFILE SHEET

TMP-1 THRU TMP-4 TRAFFIC MANAGEMENT PLANS

PMP-1 THRU PMP-3 PAVEMENT MARKING AND SIGNING PLANS

EC-1 THRU EC-5 EROSION CONTROL PLANS UTILITIES BY OTHERS PLANS UO-1 THRU UO-2

CROSS-SECTIONS X-1 THRU X-7

GENERAL NOTES: 2024 SPECIFICATIONS EFFECTIVE: 01-16-2024

REVISED: GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS, WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF

SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY BY THE ENGINEER.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD

MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITY OWNERS ON THIS PROJECT ARE ZAYO, WINDSTREAM,

DUKE ENERGY, CITY OF CONCORD WATER/SEWER/POWER, GOOGLE FIBER, SEGRA DOMINION ENERGY, WATER & SEWER AUTHORITY OF CABARRUS COUNTY

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT

AS SHOWN ON THE PLANS.

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.

CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation -

Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. TITLE

DIVISION 2 - EARTHWORK

200.02 Method of Clearing - Method II

225.02 Guide for Grading Subgrade - Secondary and Local 225.04 Method of Obtaining Superelevation - Two Lane Pavement

225.06 Method of Grading Sight Distance at Intersections

DIVISION 3 - PIPE CULVERTS

300.01 Method of Pipe Installation

310.10 Driveway Pipe Construction

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I

DIVISION 8 - INCIDENTALS

846.01 Concrete Curb, Gutter and Curb & Gutter

848.01 Concrete Sidewalk

848.04 Street Turnout

848,06 Curb Ramp

852.01 Concrete Islands

PROJECT REFERENCE NO.	SHEET NO.
JE RAMSEUR	1B

Note: Not to Scale

False Sump —

State Line ————————————————————————————————————	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	
Computed Property Corner	×
Existing Concrete Monument (ECM)	
Parcel/Sequence Number	_
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential —	
BUILDINGS AND OTHER CUI	
Gas Pump Vent or U/G Tank Cap	
Sign —	<u>©</u> S
Well —	-
Small Mine	——
Foundation —	
Area Outline	
Cemetery	
Building —	
School —	
Church —	
Dam —	
HYDROLOGY:	
Stream or Body of Water ————	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	•
Disappearing Stream ————————————————————————————————————	
Spring —	0
Wetland —————————	<u> </u>

CONVENTIONAL	PLAN	SHEET	SYMBOLS
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RAILROADS:	+++++
Standard Gauge	CSX TRANSPORTATION
RR Signal Milepost	MILEPOST 35
Swiich	SWITCH
RR Abandoned	
RR Dismantled	
RIGHT OF WAY & PROJECT CO.	NTROL:
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 ————————————————————————————————————	
Proposed Right of Way Monument ————————————————————————————————————	
Existing Permanent Easement Monument —— Proposed Permanent Easement Monument ——	
(Rebar and Cap)	◆
Existing C/A Monument (Poher and Can)	△
Proposed C/A Monument (Rebar and Cap) — Proposed C/A Monument (Concrete)	
Proposed C/A Monument (Concrete) ———————————————————————————————————	
Existing Right of Way Line ————————————————————————————————————	_
Existing Control of Access Line —	•
Proposed Control of Access Line ————————————————————————————————————	
Existing Easement Line ————————————————————————————————————	
Proposed Temporary Construction Easement—	
Proposed Temporary Drainage Easement —	
Proposed Permanent Drainage Easement —	
Proposed Permanent Drainage/Utility Easement	
Proposed Permanent Utility Easement ———	
Proposed Aerial Litility Easement	
Proposed Aerial Utility Easement ————————————————————————————————————	_
ROADS AND RELATED FEATURES	
Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill ————	
Proposed Curb Ramp	
Existing Metal Guardrail —————	
Proposed Guardrail ————	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	lacktriangle
Pavement Removal ————	
VEGETATION:	
Single Tree	슌
Single Shrub	€3

Woods Line Orchard	
O C C C C C C C C C C C C C C C C C C C	
Vineyard — CERTICELIA	- Vineyard
EXISTING STRUCTURES:	
MAJOR:	
Bridge, Tunnel or Box Culvert	
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	,
Paved Ditch Gutter	
Storm Sewer Manhole —	
Storm Sewer —	
UTILITIES:	
* SUE – Subsurface Utility Engineering LOS – Level of Service – A,B,C or D POWER:	
Existing Power Pole	_
Proposed Power Pole	
Existing Joint Use Pole	1
Proposed Joint Use Pole	1
Power Manhole ————————————————————————————————————	_
Power Line Tower	
Power Line Tower Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole L/C Power Line Test Hole (SLIE LOS A)*	
U/G Power Line Test Hole (SUE – LOS A)* — U/G Power Line (SUE – LOS B)*	
U/G Power Line (SUE – LOS B)*	
U/G Power Line (SUE – LOS C)* ———————————————————————————————————	
·	
FELEPHONE: Existing Telephone Pole ————————————————————————————————————	
Proposed Telephone Pole	
Telephone Manhole Telephone Pedestal	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole L/G Telephone Test Hole (SLIE - LOS A)* —	
U/G Telephone Test Hole (SUE – LOS A)* — U/G Telephone Cable (SUE – LOS B)* — —	
U/G Telephone Cable (SUE – LOS C)*	
U/G Telephone Cable (SUE – LOS D)*	
U/G Telephone Conduit (SUE – LOS B)*	
U/G Telephone Conduit (SUE – LOS C)*	
U/G Telephone Conduit (SUE – LOS D)*	
U/G Fiber Optics Cable (SUE – LOS B)*	
U/G Fiber Optics Cable (SUE – LOS C)*	
LI/G Fiber Ontics Cable (SUF - LOS D)*	T FO

WATER:	
Water Manhole	W
Water Meter —	
Water Valve	\otimes
Water Hydrant —	÷
U/G Water Line Test Hole (SUE – LOS A)*	
U/G Water Line (SUE – LOS B)*	
U/G Water Line (SUE – LOS C)*	
U/G Water Line (SUE – LOS D)*	
Above Ground Water Line	A/G Water
TV:	
TV Pedestal ————————————————————————————————————	C
TV Tower —	\bigotimes
U/G TV Cable Hand Hole	H_{H}
U/G TV Test Hole (SUE – LOS A)*	
U/G TV Cable (SUE – LOS B)*	TV
U/G TV Cable (SUE – LOS C)*	
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)* ——	——————————————————————————————————————
U/G Fiber Optic Cable (SUE – LOS D)*	TV F0
GAS:	
Gas Valve	\Diamond
Gas Meter ———————————————————————————————————	\Diamond
U/G Gas Line Test Hole (SUE – LOS A)* —	
U/G Gas Line (SUE – LOS B)*	
U/G Gas Line (SUE – LOS C)*	
U/G Gas Line (SUE – LOS D)*	
Above Ground Gas Line	A/G GGS
SANITARY SEWER:	
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout ————————————————————————————————————	+
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Force Main Line Test Hole (SUE – LOS A)	
SS Force Main Line (SUE – LOS B)*	
SS Force Main Line (SUE – LOS C)* ———————————————————————————————————	
SS Force Main Line (SUE – LOS D)* ———	FSS
MISCELLANEOUS:	•
Utility Pole with Base	
Utility Located Object	
Utility Located Object ————————————————————————————————————	<u> </u>
Utility Unknown U/G Line (SUE LOS R)*	S
Utility Unknown U/G Line (SUE – LOS B)*	
U/G Tank; Water, Gas, Oil ——————	
I I and a many of the Company of the	(UST)
Underground Storage Tank, Approx. Loc. —	
A/G Tank; Water, Gas, Oil	
	AATUR

PROJECT REFERENCE NO.

JE RAMSEUR

RW SHEET NO.

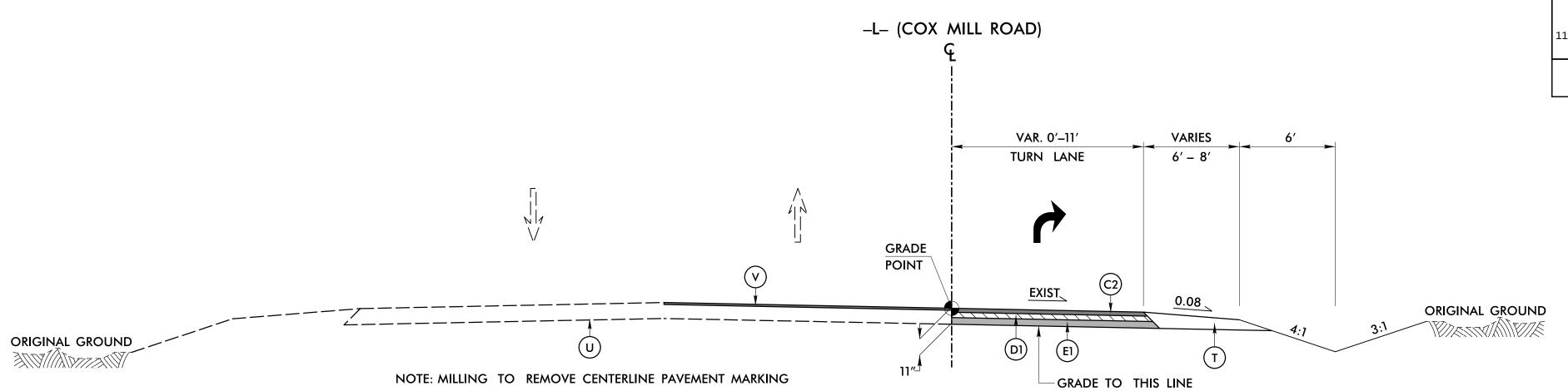
ROADWAY DESIGN
ENGINEER

BY CITY OF CONCORD

PAVEMENT DESIGN PROVIDED
BY CITY OF CONCORD

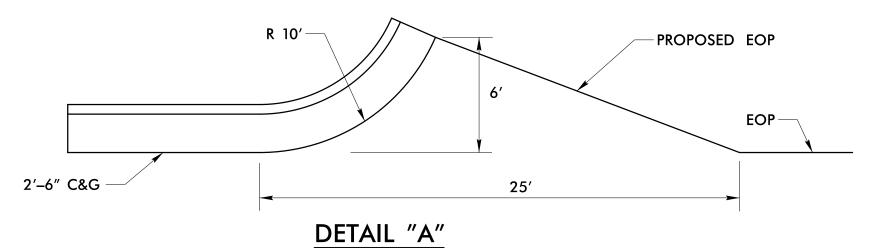
PAVEMENT DESIGN PROVIDED
BY CITY OF CONCORD

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TYPICAL SECTION NO. 1

-L- STA. 12 + 00.00 TO 16 + 06.11



2'-6" CURB & GUTTER RETURN TREATMENT

		-Y- (JE RAMSEUR F	PARK DRIVEWAY)		
	2'-6" C&G	11' TRAVEL LANE	11' TRAVEL LANE	2'-6" 8' C&G	→
	<u>6" - </u>	↓	1	<u>→</u> <u>-6"</u>	
	.02 R1	GRADE POINT 0.02	0.02	R1	0.02
ORIGINAL GROUND 2:1 MAX	T	D1 E1	11"	T RADE TO THIS LINE	2:7 MAY ORIGINAL GROUND

TYPICAL SECTION NO. 2

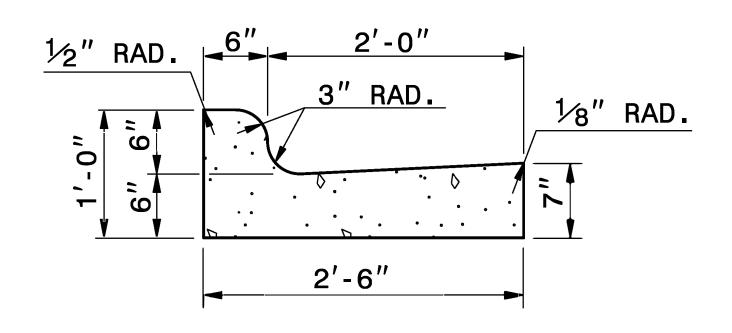
-Y- STA. 10+15.84 TO 10+82.00

PAVEMENT SCHEDULE
PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD. IN EACH OF TWO LAYERS.
PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ.YD.
PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ.YD.
2'-6" CONCRETE CURB AND GUTTER
EARTH MATERIAL
EXISTING PAVEMENT
1.5" MILLING

ALL PAVEMENT SLOPES 1:1 UNLESS NOTED OTHERWISE

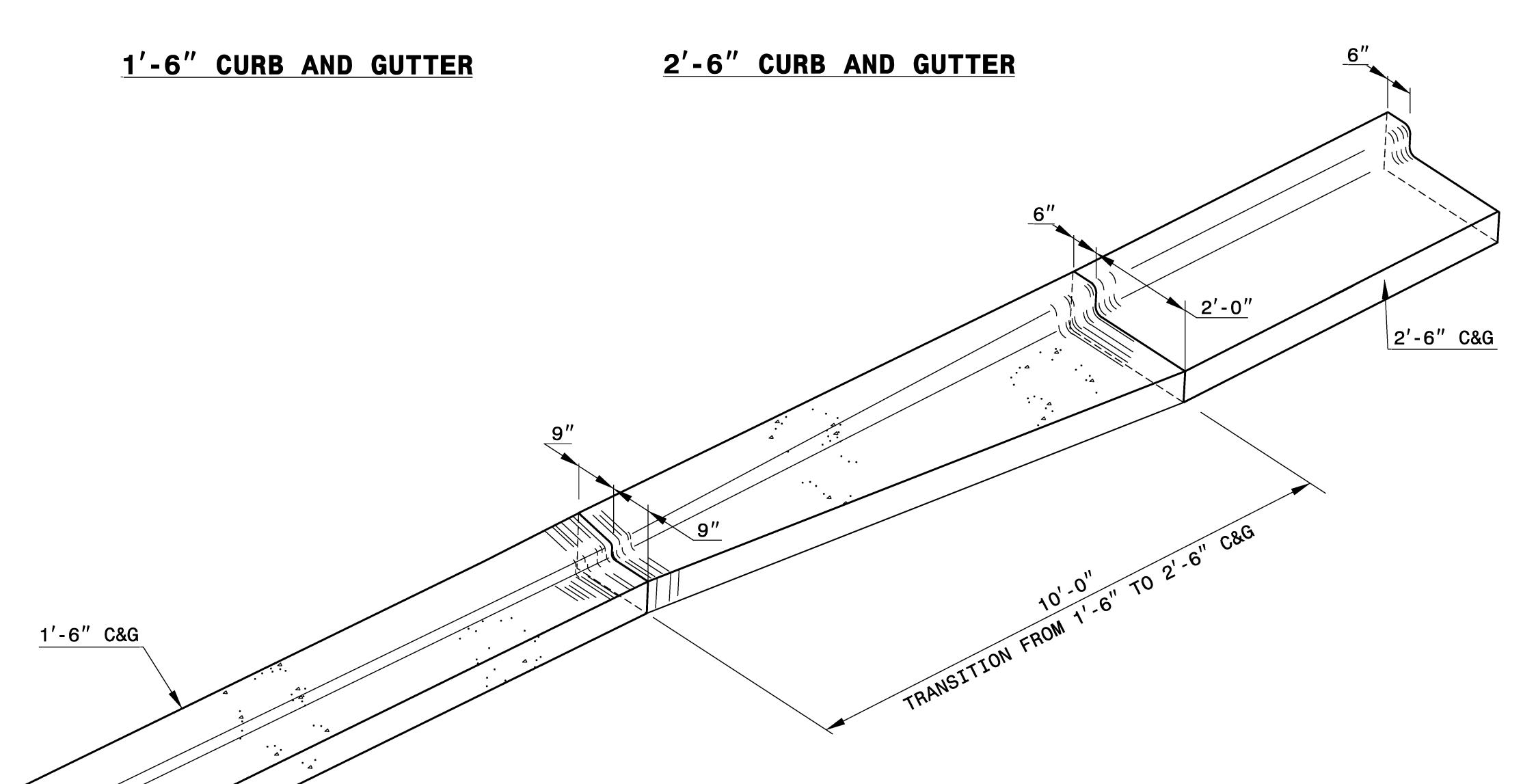
PROJECT REFERENCE NO. SHEET NO. JE RAMSEUR

1⁄8″ RAD. 1'-0" 13/4" RAD. 1'-6"



NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.

> SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.





ISOMETRIC VIEW OF TRANSITIONING CURB & GUTTER

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CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

DETAIL OF 1'-6" **TO 2'-6" CURB & GUTTER** TRANSITION SECTION

ORIGINAL BY: T.S.SPELL DATE: MARCH 3,2000

MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: DS174:/usr/details/stand/cgtransit.dgn

STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO. SHEET NO. JE RAMSEUR 3B-1 R/W SHEET NO.

EARTHWORK SUMMARY (IN CUBIC YARDS)

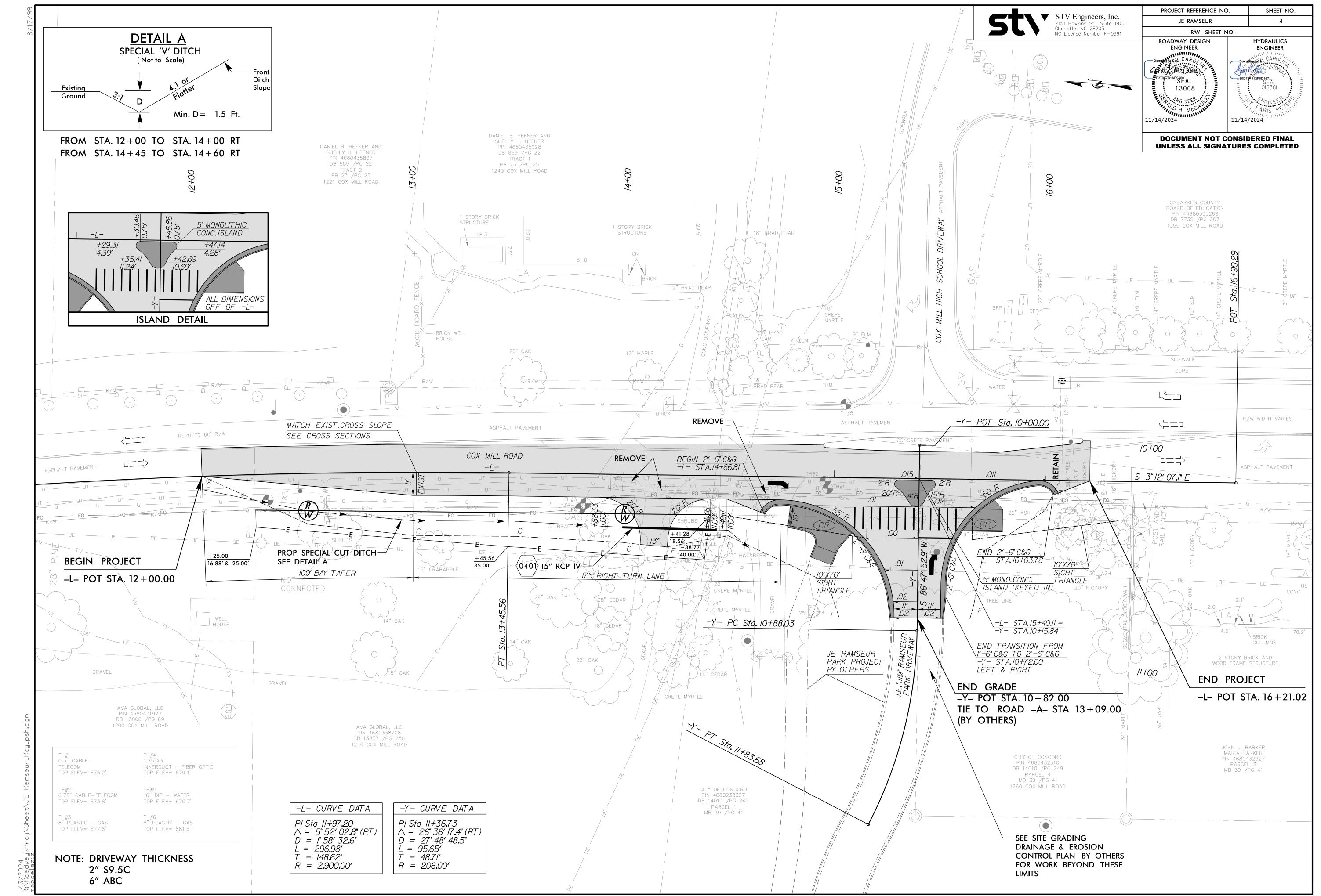
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

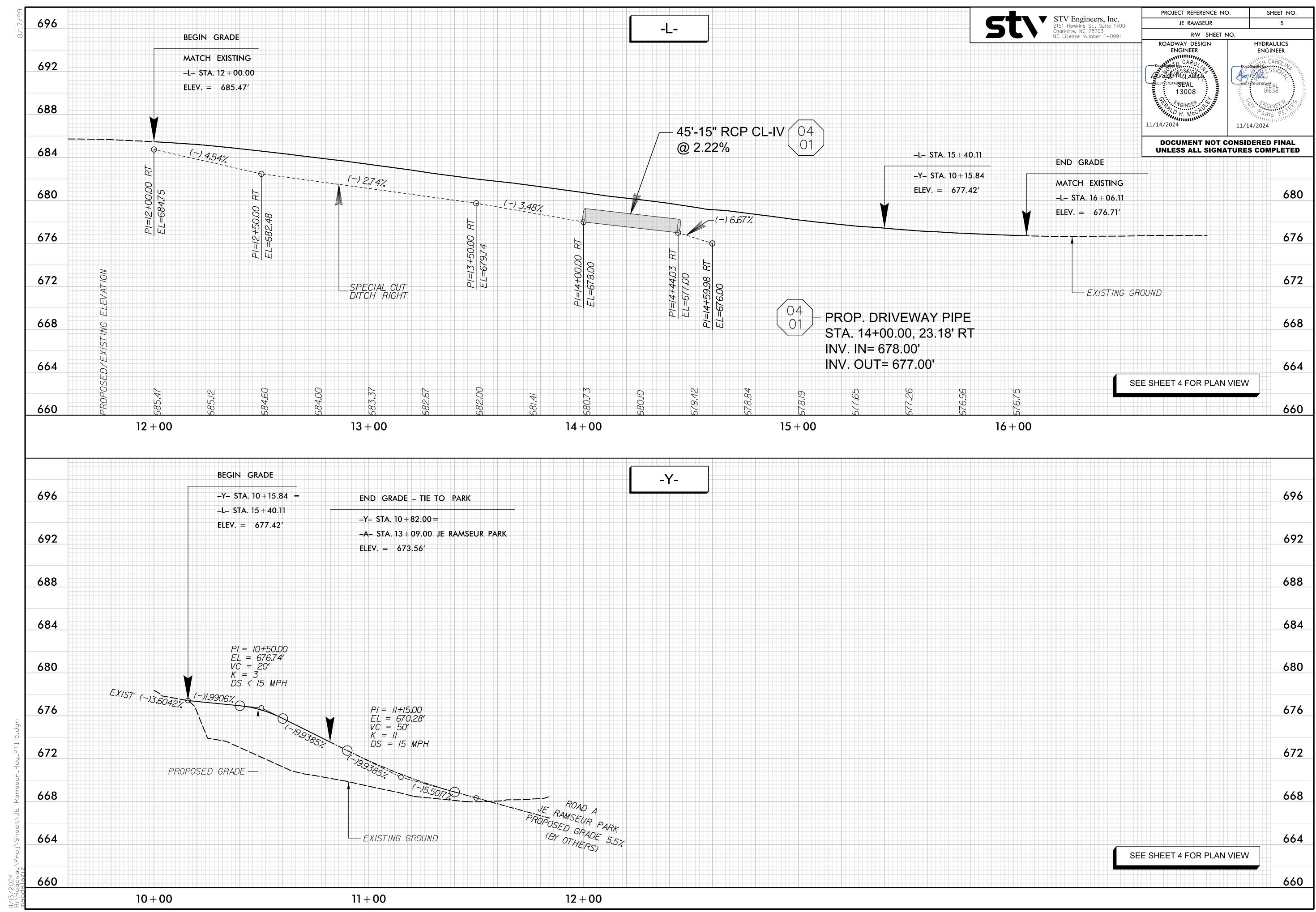
CHAIN	FROM STATION	TO STATION	SIDE	UNCL. EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
-L-	12 + 00.00	16 + 06.11	LT & RT	190		588	398	
-Y-	10+15.84	10+82.00	LT & RT	11		556	545	
TOTAL				201		1144	943	
LOSS DU	E TO CLEARING	AND GRUBBING						
WASTE IN	I LIEU OF BORRO)W						
PROJECT	TOTAL			201		1144	943	
ESTIMATE	5% FOR TOPSOI	L ON BORROW	PITS				47	
GRAND T	OTAL			201			990	
SAY				230			1090	

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

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

STATION	N (LT,RT, OR CL) STRUCTURE NO.	ATION	EVATION	LEVATION	IVO)	ternate dr. Less noted	AINAGE PIPE O OTHERWISE	÷)		C.	S. PIPE				JMINIZED C	OR C.S. PIPE, T OR	TYPE IR		LLS	STD. 8 STD. C STD. 8 (UN	838.01, 838.11 OR 838.80 NLESS OTED ERWISE)	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR P.	4 Z QUANTITY SHALL BE CC ('8')	D. 840.02	FRAME, G AND HO STANDARD	RATES DOD 840.03	71.078	10.16	0.17 OR 840.26 0.18 OR 840.27	4	TE STD. 840.20 GRATES STD. 840.20	H TWO GRATES STD. 840.29 H TWO GRATES STD. 840.24	0.32		C.Y. STD 840.72		C.B. N.D.I. D.I. G.D.I. G.D.I.	DROP INLET	OP INLET
SIZE THICKNESS OR GAUGE	ROM TO	TOP ELEV	INVERT EL	INVERT EL	12" 15	5" 18" 24"	30" 36" 42	" 48" 42"	48" 54"	60" 6	56" 73	72" 78	84"	12" 15"	" 18" 24"	30" 36"	42" 48"	4DWALLS	INFORCED ENDWAL	C.P.	هـ:	EACH (0' THRU 5.0') THRU 10.0'	ABOVE E	STD. 840.01 OR STI	TYPE OF	GRATE	TS aO VI OV8 CES	AME A	J.I. TYPE "A" STD. 84	9.I. TYPE "D" STD. 84	FRAME WITH G	J.I. (N.S.) FRAME WIT	STD. 840.31 OR 840	6	C.S. ELBOW NC. COLLARS CL. "B"	VABLE FILL REMOVAL LIN.FT.	J.B. M.H. T.B.D.I T.B.J.B	JUNCTION BO MANHOLE . TRAFFIC BEARI	
L 14+00	RT 0401																		CA C			PER E/) o	C.B. SJ	F	G		. O	G.D.I.	G.D.I. T.B.2.G	G.D.I.	0.0	B. J.	34	15" C	FLOV		REMARKS	
	0401		678.00	677.00										45																						59	<u> </u>		
																																					<u> </u>		
TOTAL			1											45																						59	,+		

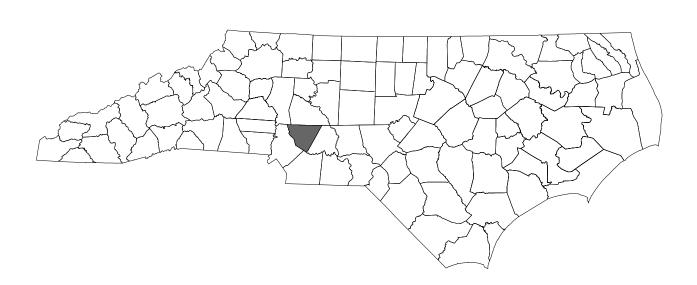


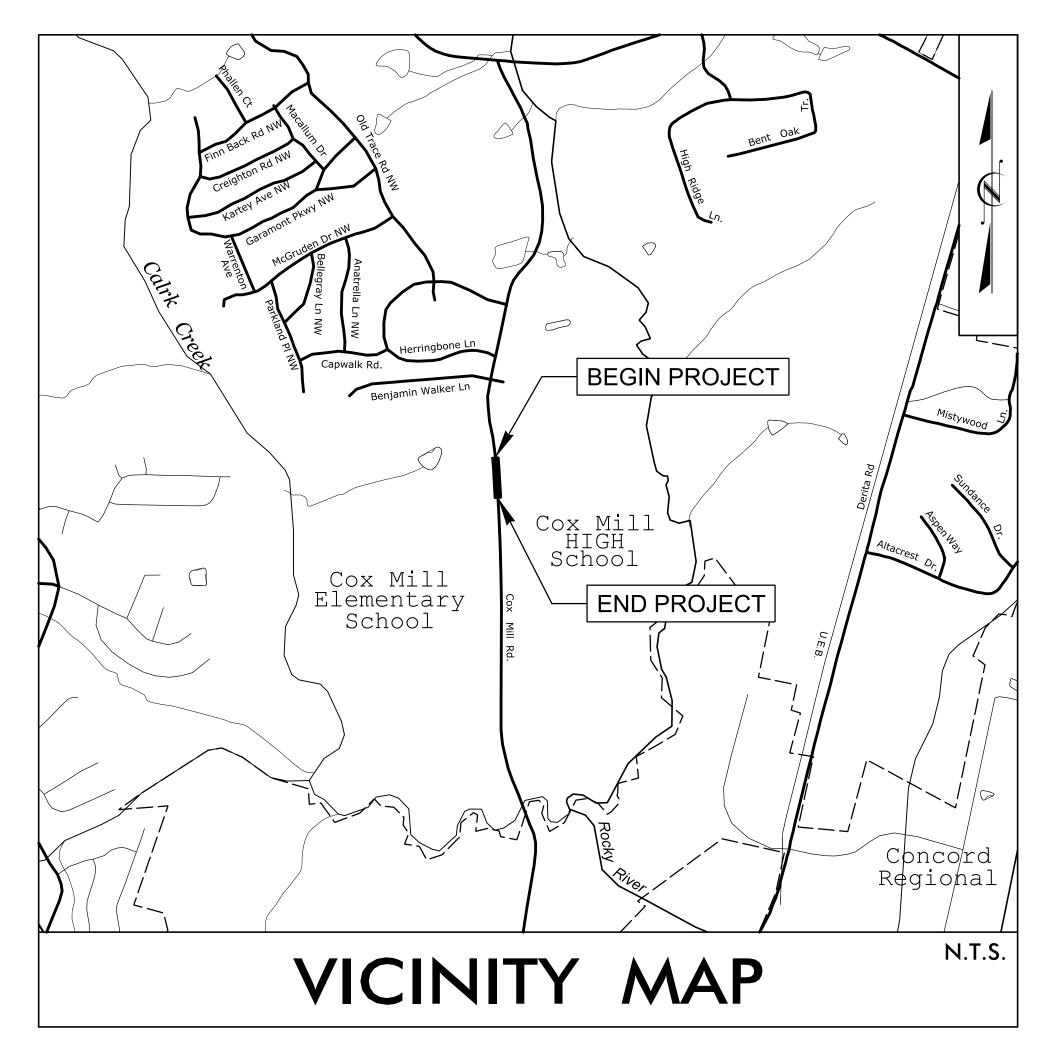


CITY OF CONCORD

TRANSPORTATION MANAGEMENT PLAN

CABARRUS COUNTY





WORK ZONE SAFETY & MOBILITY "from the MOUNTAINS to the COAST"

PLANS PREPARED BY:

STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

ASHLEY BOUCHARD, PE

PROJECT ENGINEER

GRACE JACOBSON

PROJECT DESIGNER

INDEX OF SHEETS

TITLE

TMP-1 TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS

TMP-1A LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND

TMP-1B TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)

TMP-3 TEMPORARY TRAFFIC CONTROL PHASING

TMP-4 TEMPORARY TRAFFIC CONTROL PHASE I DETAIL

ROJECT: JE RAMSEU

SHEET NO.

TMP-1

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APPROVED:

DocuSigned by:

Grall Malaulus SEAL

13008

SEAL

13008

PROJ. REFERENCE NO. JE RAMSEUR TMP-1A

STV Engineers, Inc. 2151 Hawkins St., Suite 1400 Charlotte, NC 28203 NC License Number F-0991

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.

TITLE

1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
	1101.02 1101.04 1101.05 1101.11 1110.01 1110.02 1130.01 1145.01 1150.01 1205.01

LEGEND

GENERAL

DIRECTION OF TRAFFIC FLOW

DIRECTION OF PEDESTRIAN TRAFFIC FLOW

----- EXIST. PVMT.

NORTH ARROW

---- PROPOSED PVMT.

TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA

REMOVAL

SIGNALS

EXISTING

PROPOSED

T

E TEMPORARY

P

P

P

P

PAVEMENT MARKINGS

——EXISTING LINES
——TEMPORARY LINES

TRAFFIC CONTROL DEVICES

BARRICADE (TYPE III)

CONE

DRUM SKINNY DRUM O TUBULAR MARKER

TEMPORARY CRASH CUSHION

FLASHING ARROW BOARD

FLAGGER

LAW ENFORCEMENT

TRUCK MOUNTED ATTENUATOR (TMA)

CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

PORTABLE SIGN

— STATIONARY SIGN

STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

CRYSTAL/CRYSTAL

CRYSTAL/RED

YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

DATE:

11/14/2024

DocuSigned by:

Grad Meaning SEAL
13008

SEALE37957B1AB94400

OH. MCCANING

ROADWAY STANDARD DRAWINGS & LEGEND

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STV Engineers, Inc. 2151 Hawkins St., Suite 1400 Charlotte, NC 28203 NC License Number F-0991

MANAGEMENT STRATEGIES

PROPOSED JE RAMSEUR WILL BE CONSTRUCTED USING LANE CLOSURES (UTILIZING FLAGGERS AS NEEDED).

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

COX MILL RD.

WEEKDAYS 6:30 A.M. TO 9:00 A.M. WEEKDAYS 4:00 P.M. TO 6:00 P.M.

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL **EVENTS AS FOLLOWS:**

ROAD NAME

ALL ROADS

HOLIDAY

- 1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL. AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 ft IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- S) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

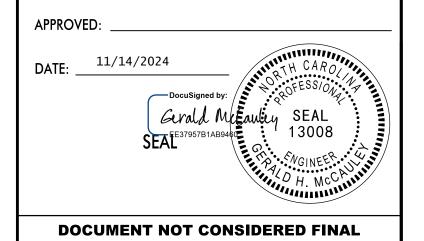
- U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- V) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION

MISCELLANEOUS

- W) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/ OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- X) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 200FT AND 400FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

LOCAL NOTES

- Y) NOTIFY CABARRUS COUNTY EMERGENCY SERVICES (704)-920-2600 AND PUBLIC SCHOOLS (704)-786-9805 AT LEAST THIRTY DAYS PRIOR TO ROAD CLOSURE.
- Z) THE CONTRACTOR SHALL BUILD AS MUCH AS POSSIBLE AWAY FROM TRAFFIC.
- AA) ALL CHAIR RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH SIGNING AND DELINEATION UNIT.
- BB) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS. (UTILITIES. DRAINAGE ETC.)
- CC) CONTRACTOR SHALL MAINTAIN ACCESS TO MAILBOXES AND DRIVEWAYS AT ALL TIMES AS STATED IN THE PHASING USING INCIDENTAL STONE.



TRANSPORTATION **OPERATIONS** PLAN

UNLESS ALL SIGNATURES COMPLETED

PHASING NOTES

PROJ. REFERENCE NO. SHEET NO.

JE RAMSEUR TMP-3

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2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

NOTE:

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS WITHIN THE PROJECT LIMITS AND COORDINATE AS NECESSARY WITH PROPERTY OWNERS FOR ALL PHASES OF TRAFFIC.

PHASE I

STEP 1:

INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADWAYS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.01, SHEET 1 THRU 3.

STEP 2:

AWAY FROM TRAFFIC OR USING RSD 1101.02 SHEET 1 OF 19 AND FLAGGERS AS NEEDED, PERFORM THE FOLLOWING AS SHOWN ON TMP-4

A) CONSTRUCT PROPOSED DRAINAGE, GRADING, CURB & GUTTER, SIDEWALK AND WIDENING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FOR THE FOLLOWING STATION RANGES:

- -L- STA. 12+00 +/- TO 16+06 +/-
- -Y- STA. 10+15 +/- TO 10+82 +/-

USE WEDGING AS NECESSARY TO MAINTAIN TIE WITH EXISTING ROADWAY AND PROVIDE POSITIVE DRAINAGE.

PHASE II

STEP 1:

USING RSD 1101.02 SHEET 1 OF 19 PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS ON ALL ROADWAYS WITHIN THE PROJECT LIMITS. OPEN ALL ROADS TO THE FINAL TRAFFIC PATTERN AND REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

DATE:

Docusigned by:

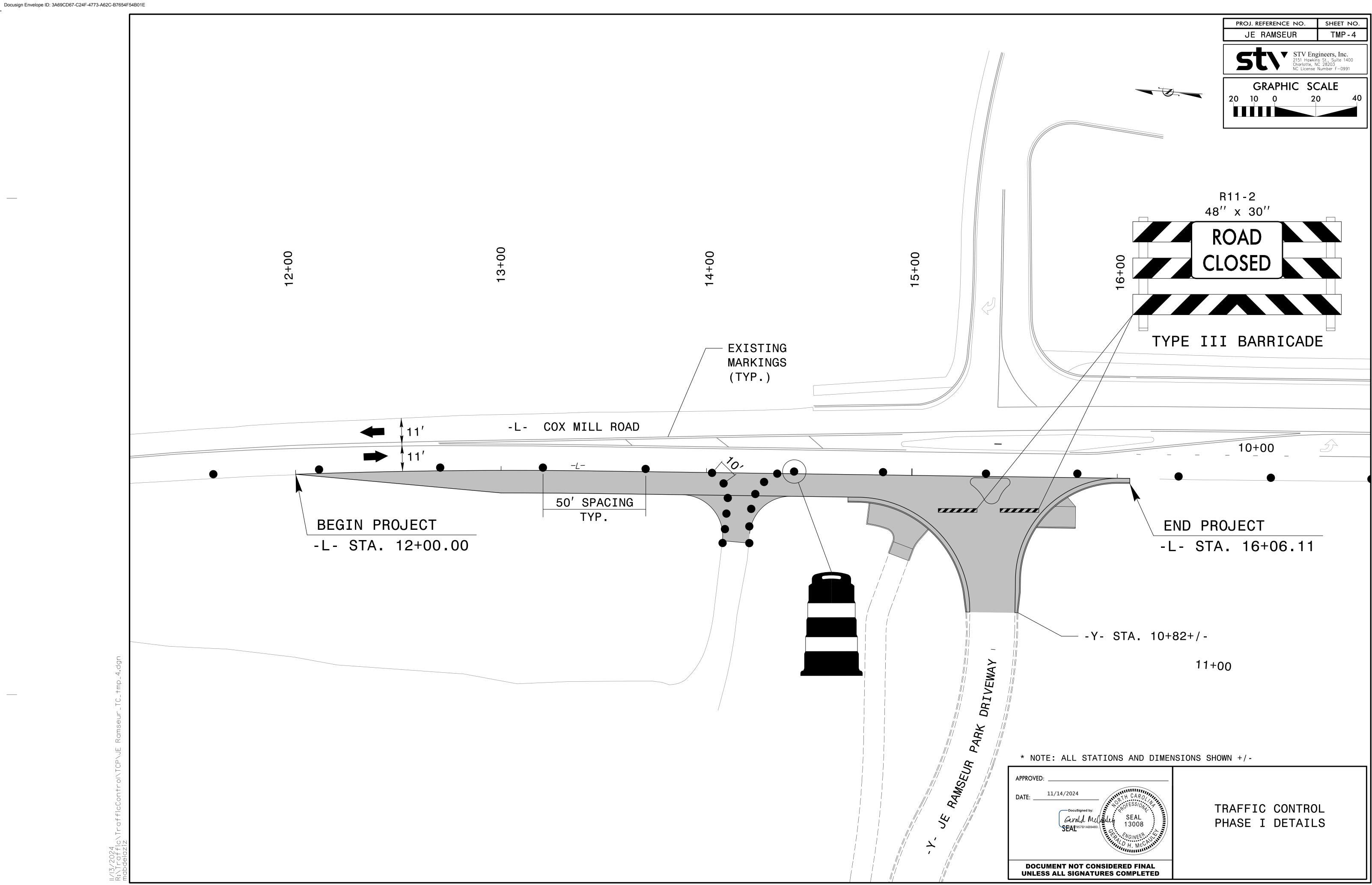
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PHASING NOTES



CITY OF CONCORD

PAVEMENT MARKING PLAN CABARRUS COUNTY

JE RAMSEUR PMP - 1 APPROVED:

UNLESS ALL SIGNATURES COMPLETED

INDEX

SHEET NO.	DESCRIPTION
PMP - 1	PAVEMENT MARKING & SIGNING PLAN COVER SHEET
PMP-2	TYPE 'E' SIGNS & PAVEMENT MARKING SCHEDULE
PMP-3	PAVEMENT MARKING & SIGNING DETAIL

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 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	<u>TITLE</u>
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE "D", "E", AND "F" SIGNS ON "U" CHANNEL POSTS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES

SUMMARY OF QUANTITIES ITEM NO. ITEM DESCRIPTION QUANTITY UNIT SECT. DESC. NO. NO. 4072000000 | 903 SUPPORTS, 3-LB STEEL U-CHANNEL LF 110 4102000000 904 SIGN ERECTION, TYPE E 4116100000 904 SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED) 4155000000 907 DISPOSAL OF SIGN SYSTEM, U-CHANNEL EΑ DISPOSAL OF SUPPORT, U-CHANNEL 4192000000 | 907 EΑ

PAVEMENT MARKING GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME

COX MILL ROAD (-L-) THERMOPLASTIC JE RAMSEUR PARK DRIVEWAY (-Y-) THERMOPLASTIC

B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

MARKING

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

SIGNING GENERAL NOTES

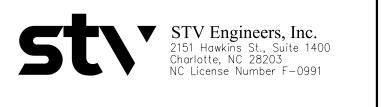
THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE/CITY MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- B) SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRANSPORTATION MANAGEMENT PLANS.
- C) WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
- D) WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- E) THE BACKGROUND FOR TYPE "E" SIGNS SHALL BE TYPE "C" REFLECTIVE SHEETING.

PLAN PREPARED BY: STV Engineers, Inc.

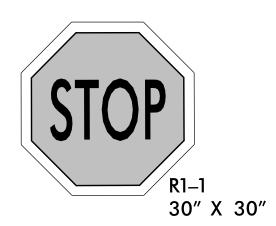
TRANSPORTATION DESIGNER

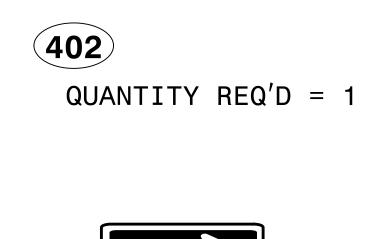
ASHLEY BOUCHARD, PE TRAFFIC ENGINEER GRACE JACOBSON



401

QUANTITY REQ'D = 1





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2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

TIP NO. SHEET NO.

JE RAMSEUR PMP-2

APPROVED: ___

DATE: _____11/14/2024

SEAL



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FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION PAVEMENT MARKINGS
	THERMOPLASTIC (4", 90 MILS)
T1	WHITE EDGE LINE
T2	WHITE SOLID LANE LINE
T4	3 FT 9FT. / SP WHITE MINISKIP
T5	2 FT 6FT. / SP WHITE MINISKIP
T11	YELLOW SINGLE CENTER
T13	YELLOW DOUBLE CENTER
	THERMOPLASTIC (8", 90 MILS)
T42	YELLOW DIAGONAL
T46	WHITE CROSSWALK
	THERMOPLASTIC (24", 90 MILS)
T61	WHITE STOPBAR
	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
T71	LEFT TURN ARROW

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TYPE	Е	SIGNS

SCALE: NONE	REVISIONS	
DATE: 6/18/24		
DWG. BY: ANB		
design by: ANB		
REVIEWED BY: GHM	CADD	•

HECT: JE RAMSEUK

Cox Mill Elementary School

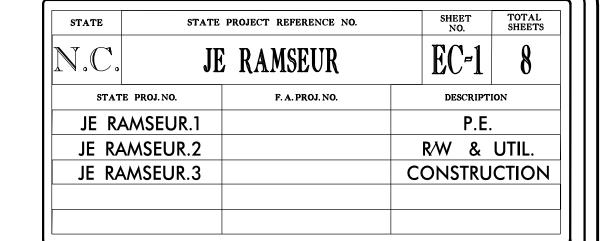
Character MAP

NOT TO SCALE

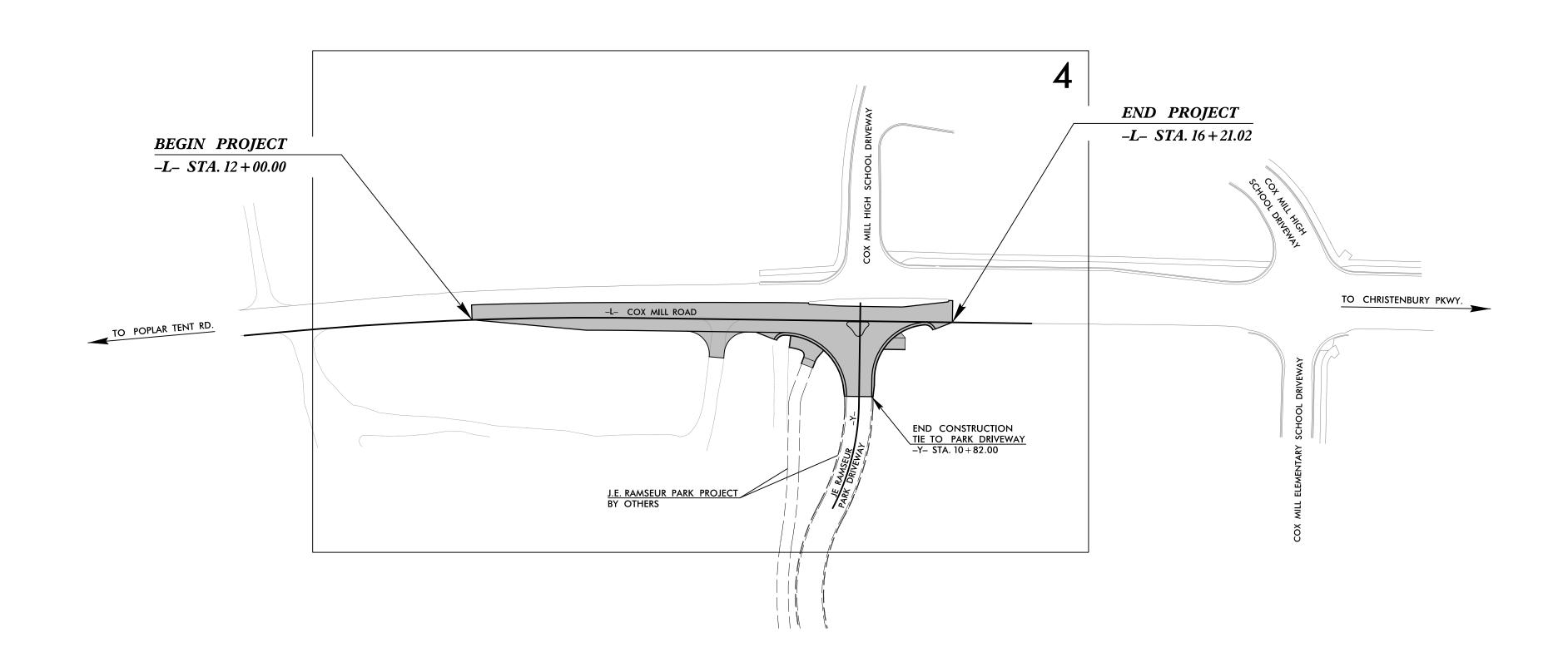
CITY OF CONCORD

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CABARRUS COUNTY







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

GRAPHIC SCALE20 10 0 20 40

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.

STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

Prepared in the Office of:

STV ENGINEERS, INC.

900 WEST TRADE STREET, SUITE 715 CHARLOTTE, NC 28202

Designed by:

HALEY SMITH, EIT

4688

LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

Docusign Envelope ID: 3A69CD67-C24F-4773-A62C-B7654F54B01E

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.

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EROSION & SEDIMENT CONTROL LEGEND

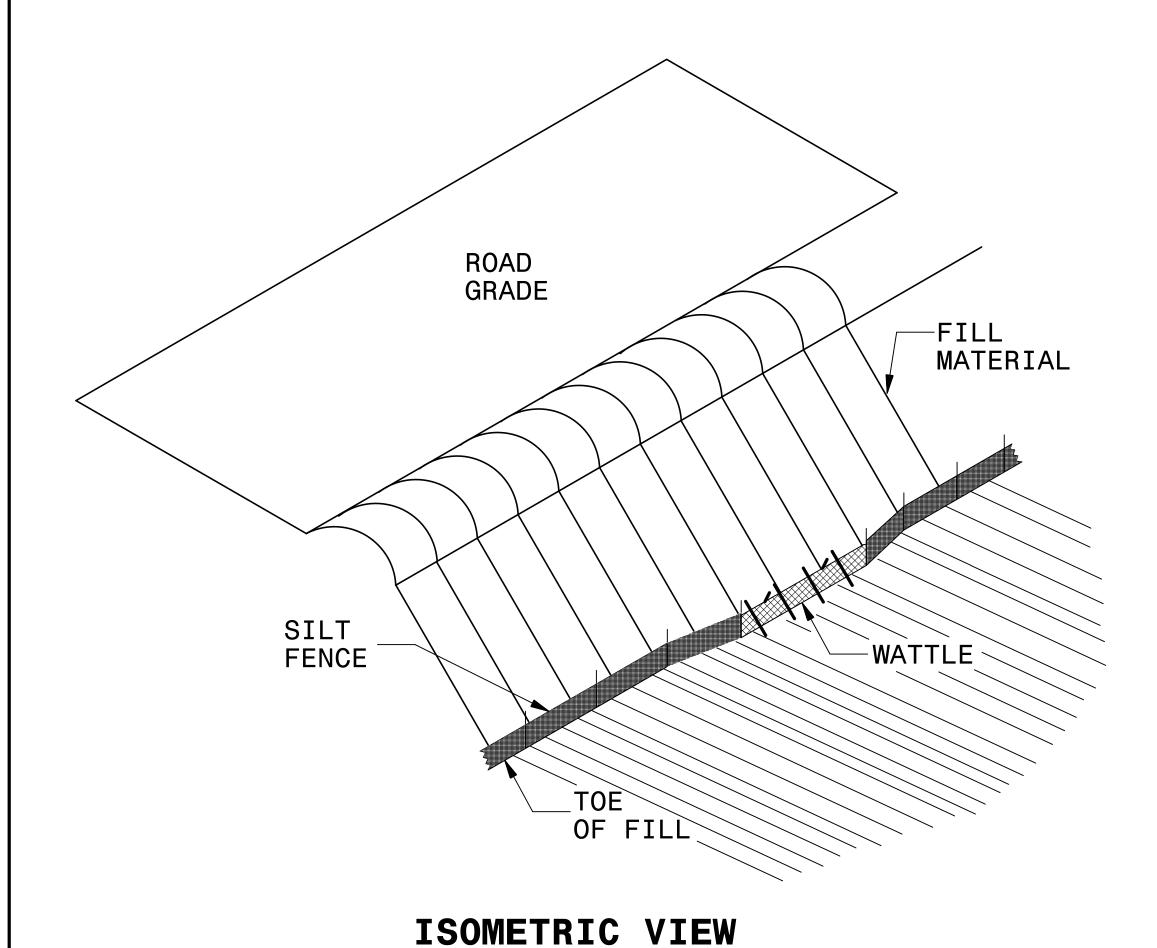
<u>Std. #</u>	<u>Description</u>	<u>Symbol</u>	Std. #	Description	<u>Symbol</u>
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	<u>688668</u> <u>0008000</u>
1630.03	Temporary Silt Ditch	···-——TSD———	1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion	····→ TD →	1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	··· - EW -
1622.01	Rock Inlet Sediment Trap:	∧ [‱]		Silt Fence Coir Fiber Wattle Break	···- CFW-
1632.01	Type A		1636.03	Excelsior Wattle Barrier	—EW—EW—
1632.02 1632.03	Type B Type C		1636.03	Coir Fiber Wattle Barrier	CFWCFW
1002.00	· , , , ,	<u> </u>			

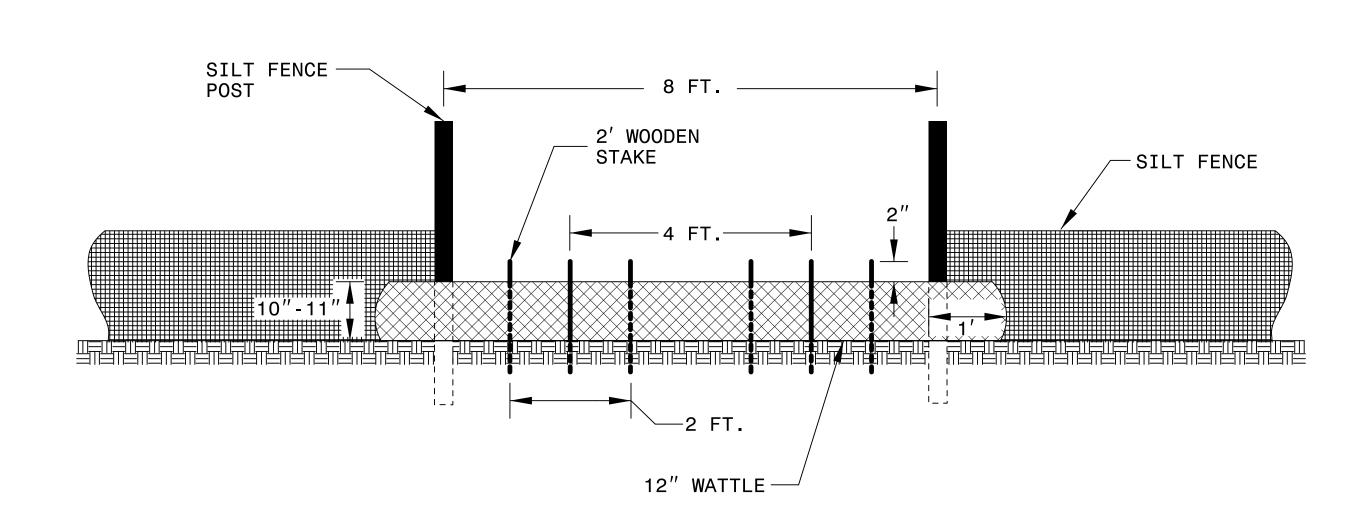
SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO.

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VIEW FROM SLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

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

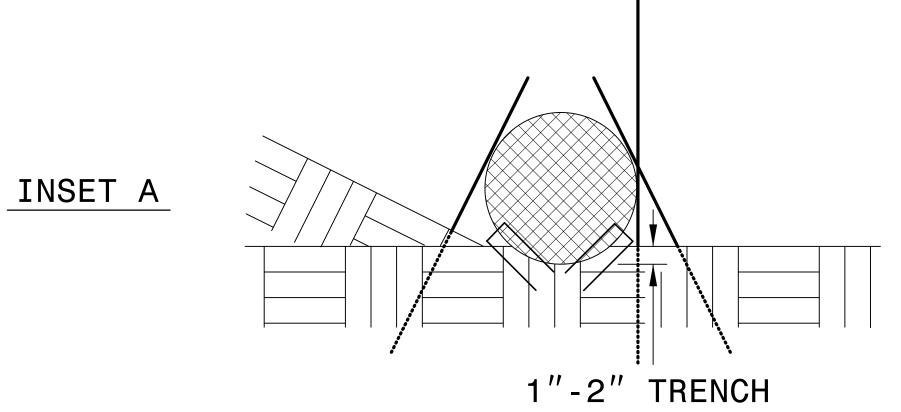
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

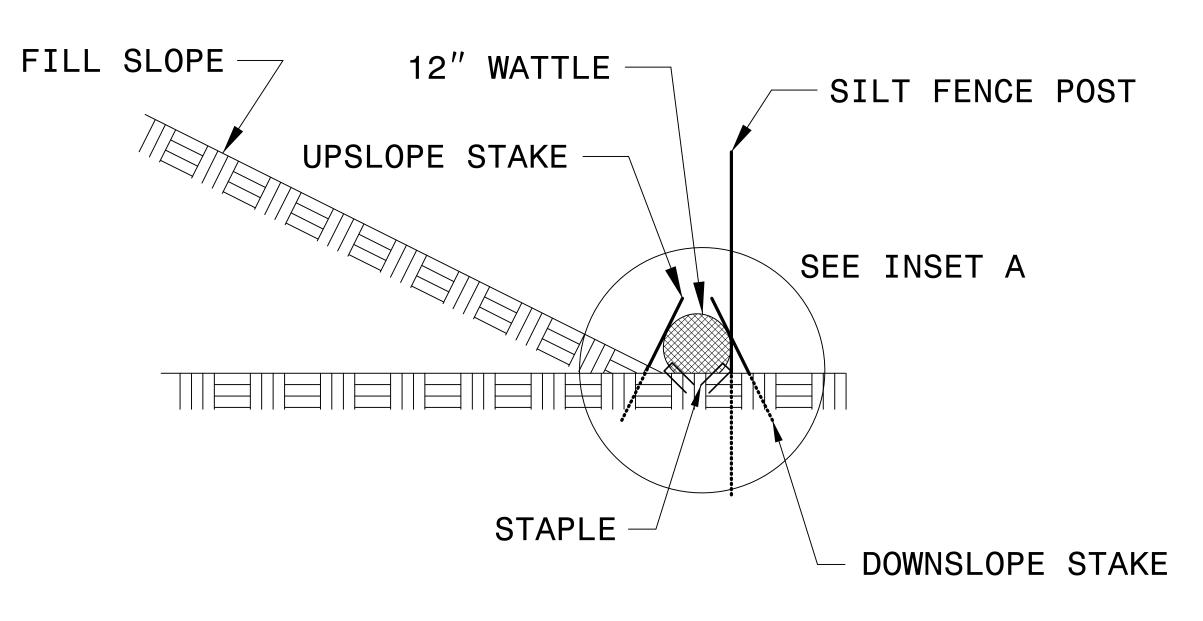
PROVIDE STAPLES MADE OF 11 GUAGE STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6" IN LENGTH.

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

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

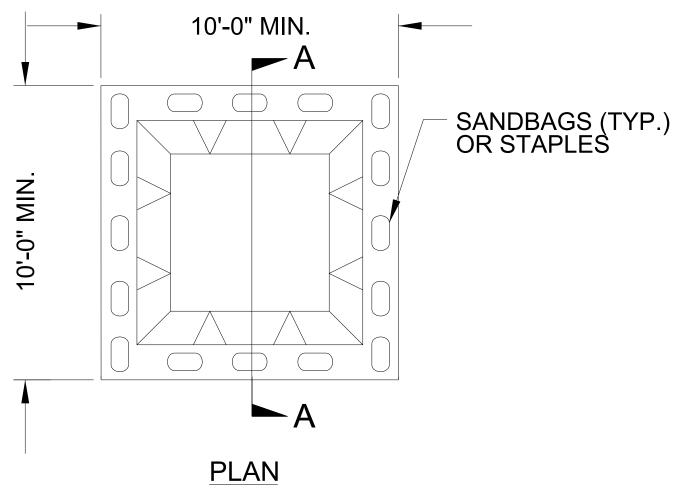


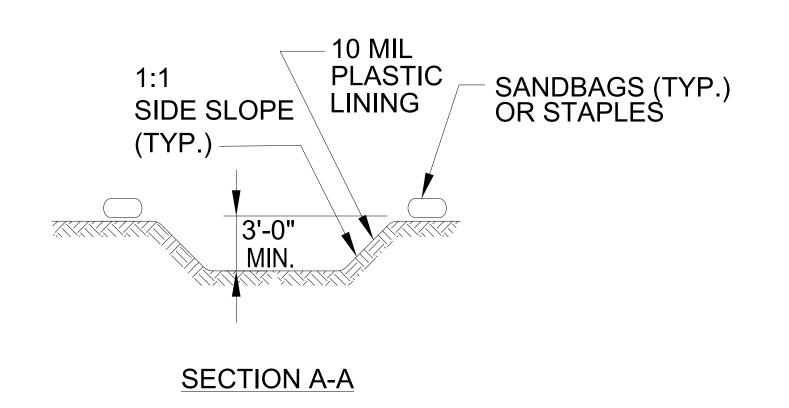


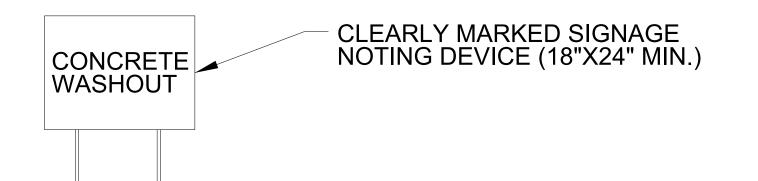
SIDE VIEW

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER









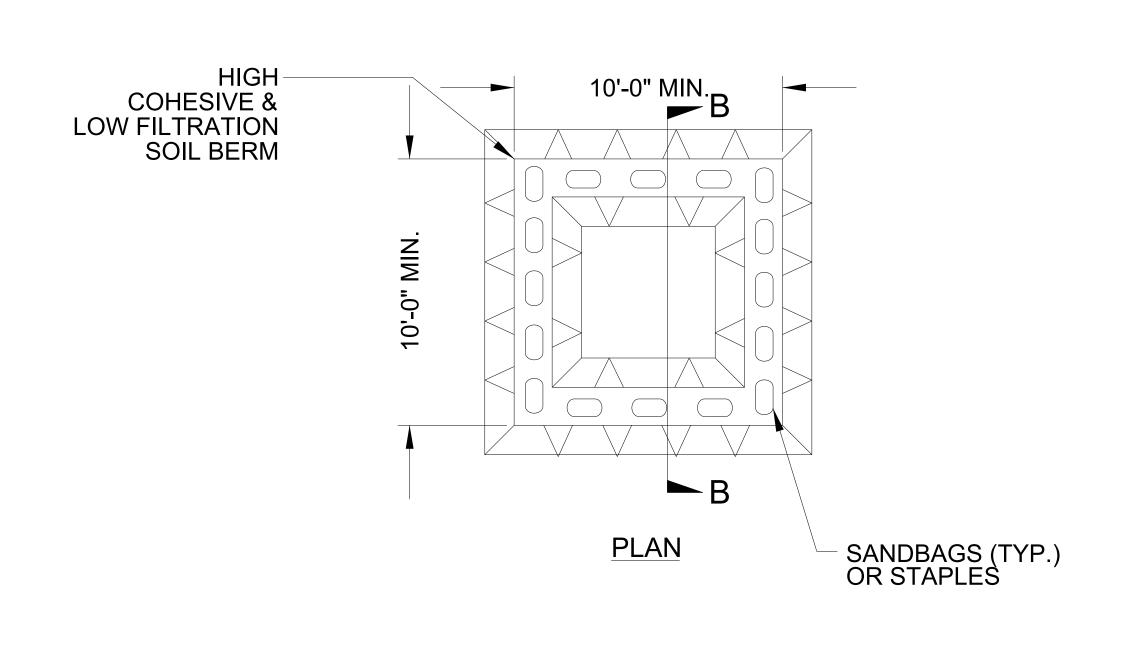
BELOW GRADE WASHOUT STRUCTURE NOT TO SCALE

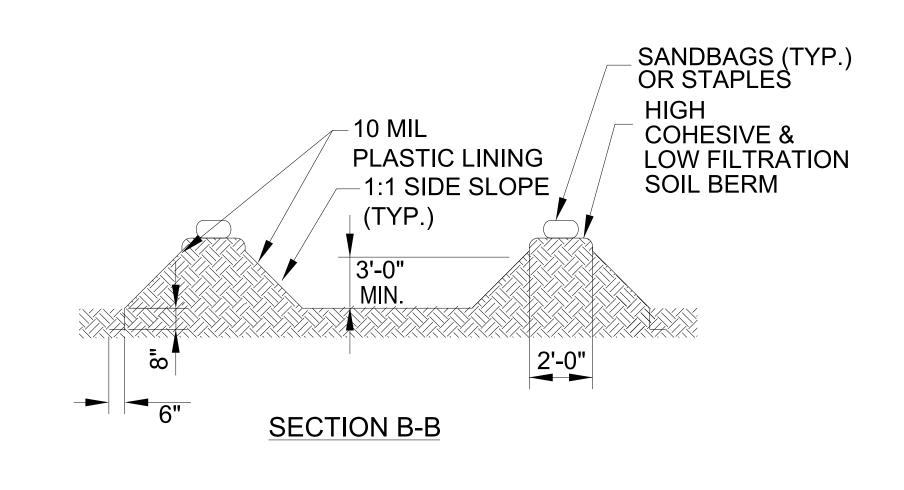
NOTES:

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 CLEARY MARKED WITH SIGNAGE NOTING DEVICE.







ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

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 CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.

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Charlotte, NC 28203
Charlotte, NC 28203
NO Lioners Number 5 0001

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 TO 4:1		7 DAYS FOR SLOPES GREATER THAN 50'IN LENGTH WITH SLOPES STEEPER THAN 4:1.
SLUILS JII IU 4II	I4 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	I4 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

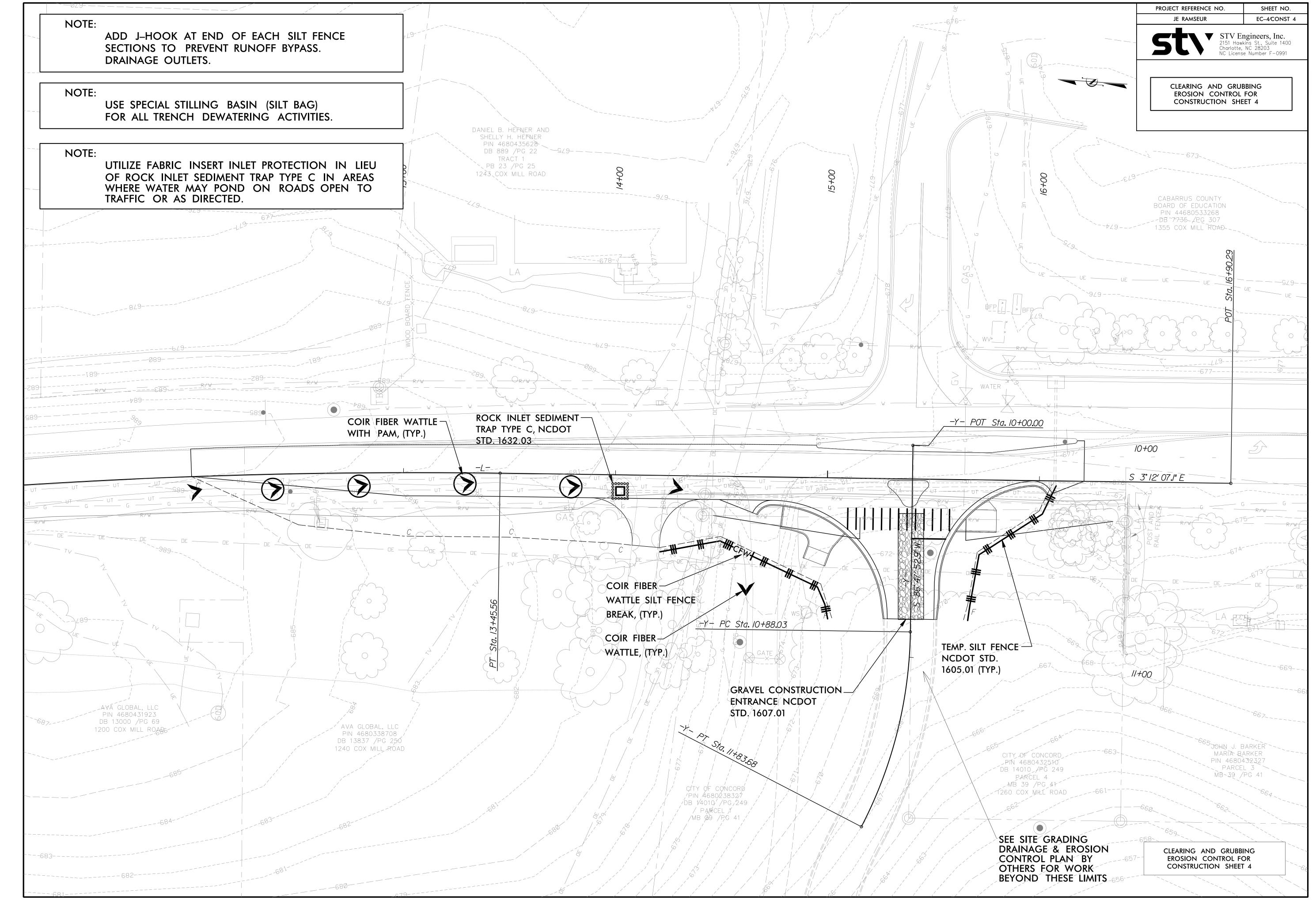
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE I	۷0.	SHEET NO.
JE RAMSEUR		EC-3A
stv	2151 Hawk Charlotte,	ngineers, Inc. kins St., Suite 1400 NC 28203

SOIL STABILIZATION SUMMARY SHEET EXCELSIOR MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	- -	12+00	14+00	RT	360
4	- -	14+45	14+60	RT	30
4	- Y -	10+50	11+06	RT	65
			6116	3T0TAL	455
MIGGELLANE	OUS MATTING TO BE INSTAI	LED AS DIRE			7730
1111 30000 71110		700 710 0110		TOTAL	8185
				SAY	8200
					0200



8" "PLASTIC - GAS

TOP ELEV= 681.5'

TOP ELEV= 677.6'

 $\triangle = 5^{\circ} 52' 02.8'' (RT)$ $D = 1^{\circ} 58' 32.6''$

L = 296.98'

T = 148.62'

R = 2,900.00'

L = 95.65'

T = 48.71'

R = 206.00'

FINAL GRADE

EROSION CONTROL FOR

CONSTRUCTION SHEET 4

IRON ROD

SEE SITE GRADING

LIMITS

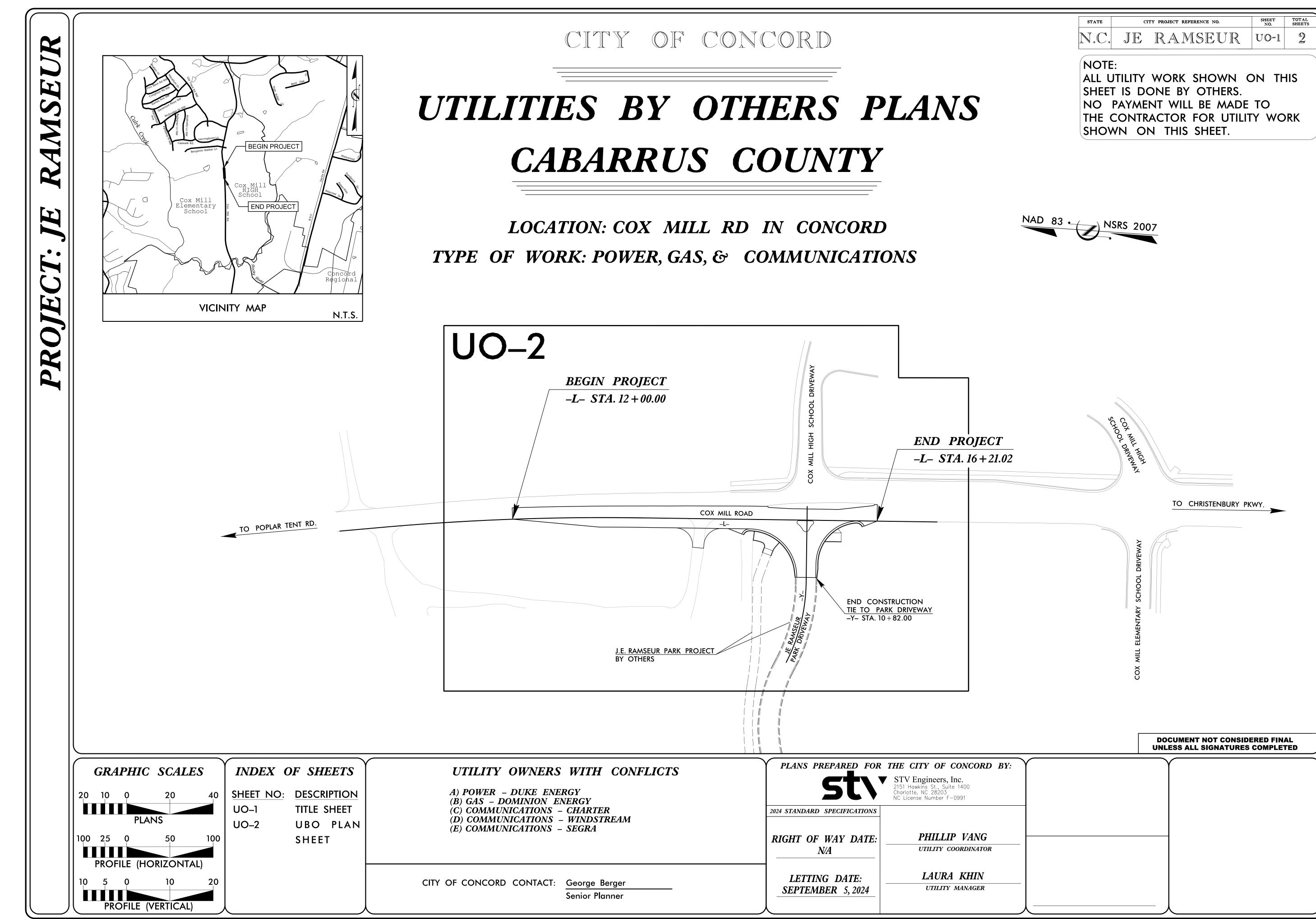
DRAINAGE & EROSION

CONTROL PLAN BY OTHERS

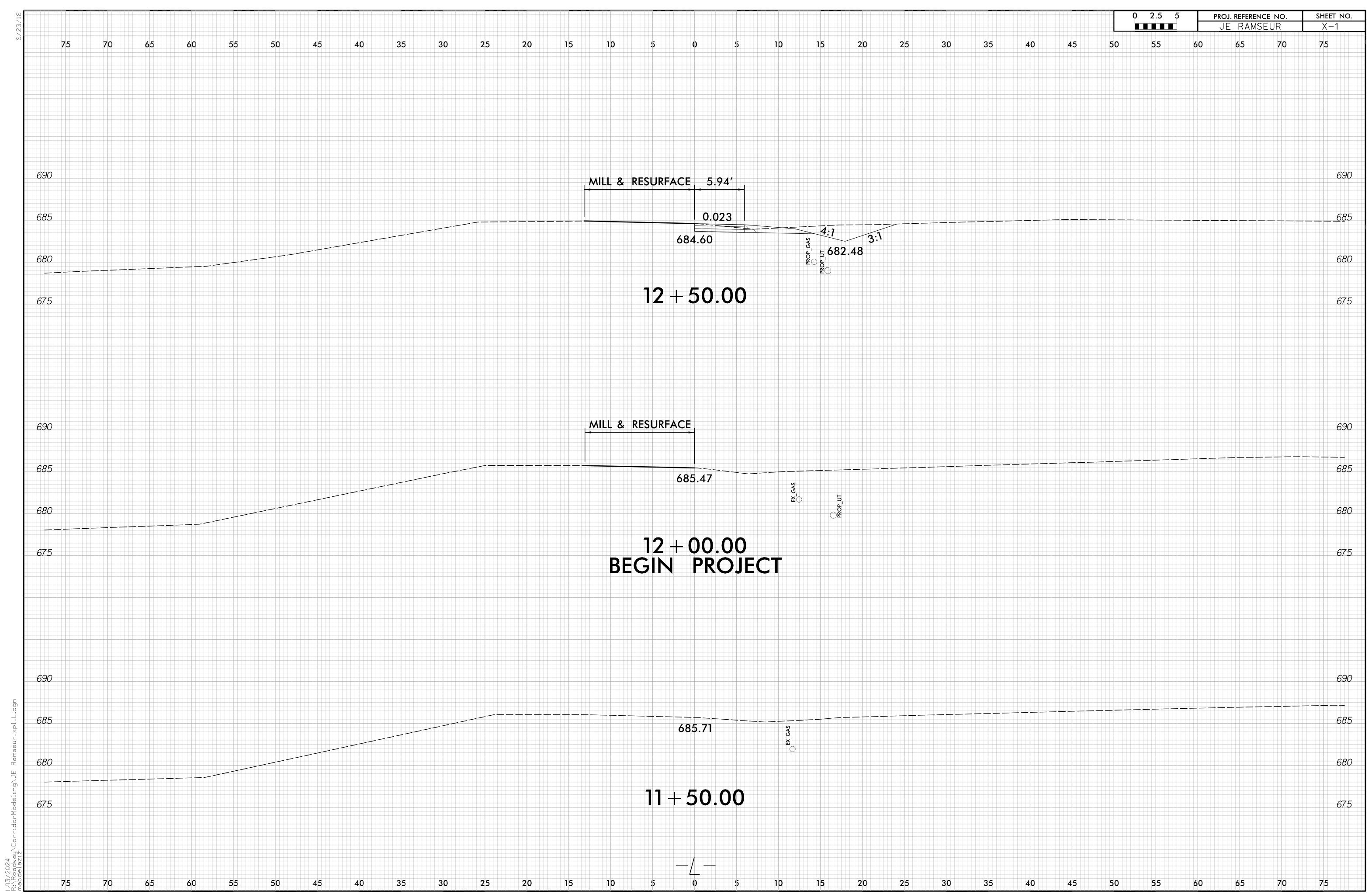
FOR WORK BEYOND THESE

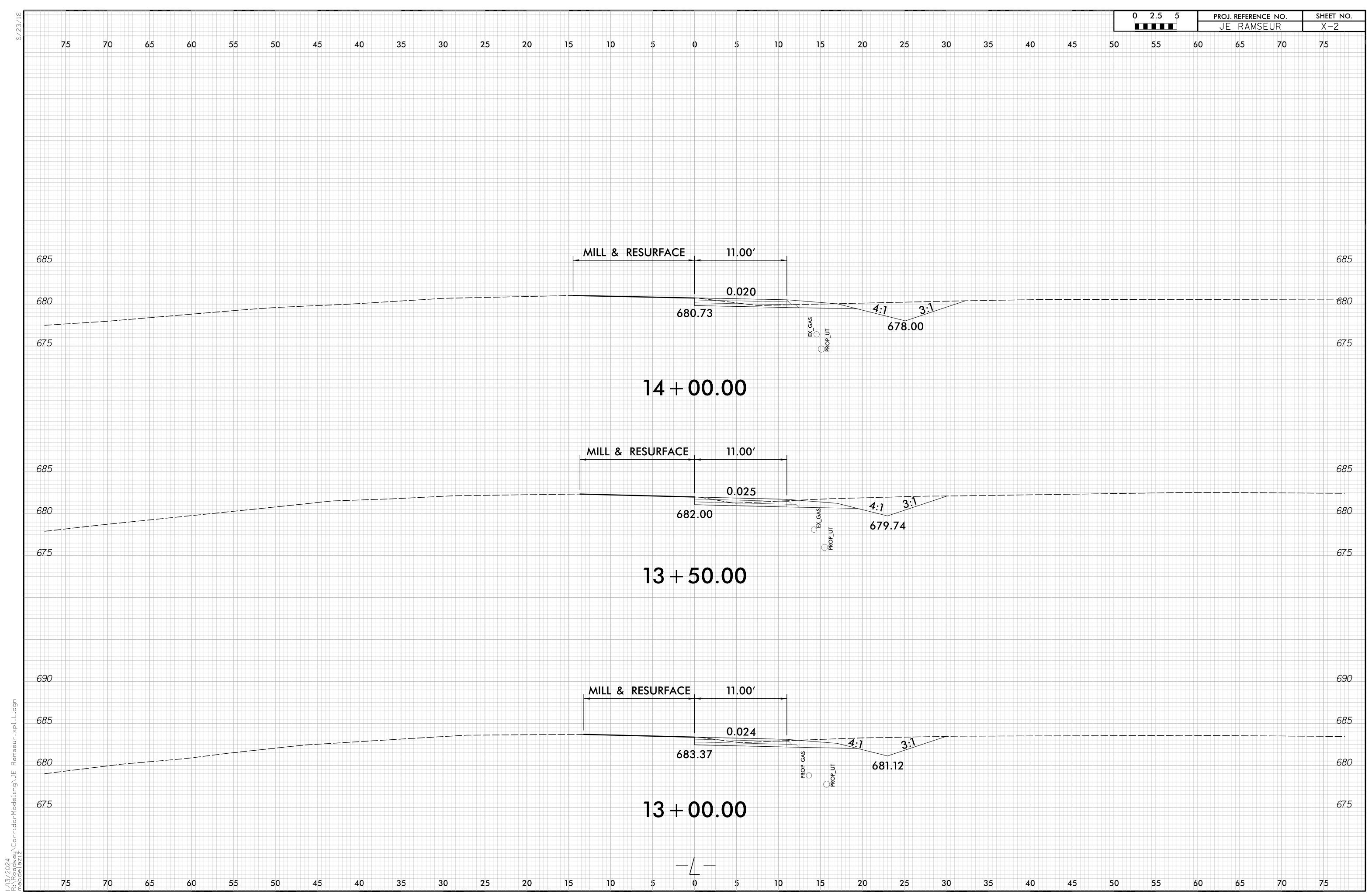
IRON ROD

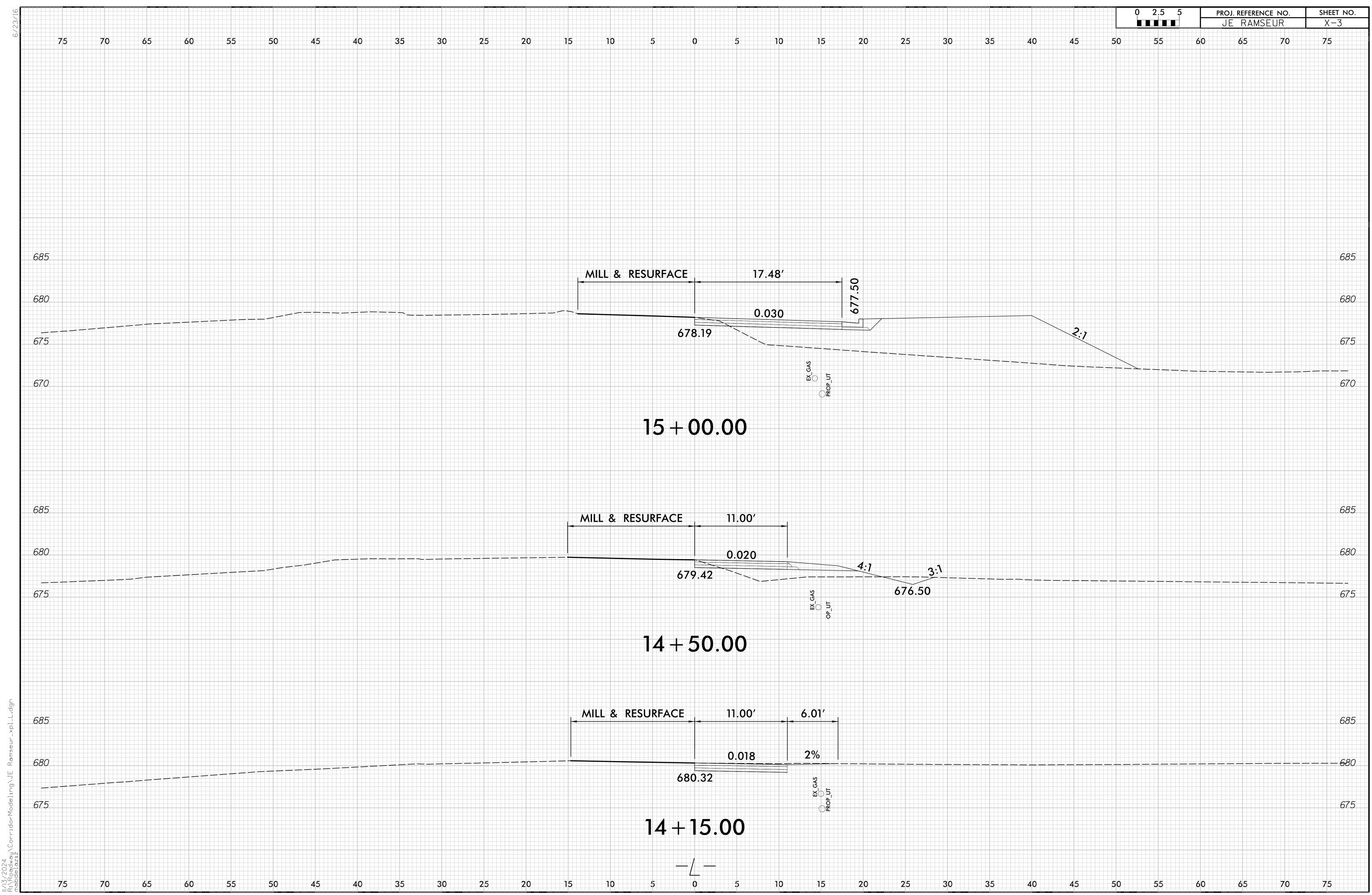
FOUND #5

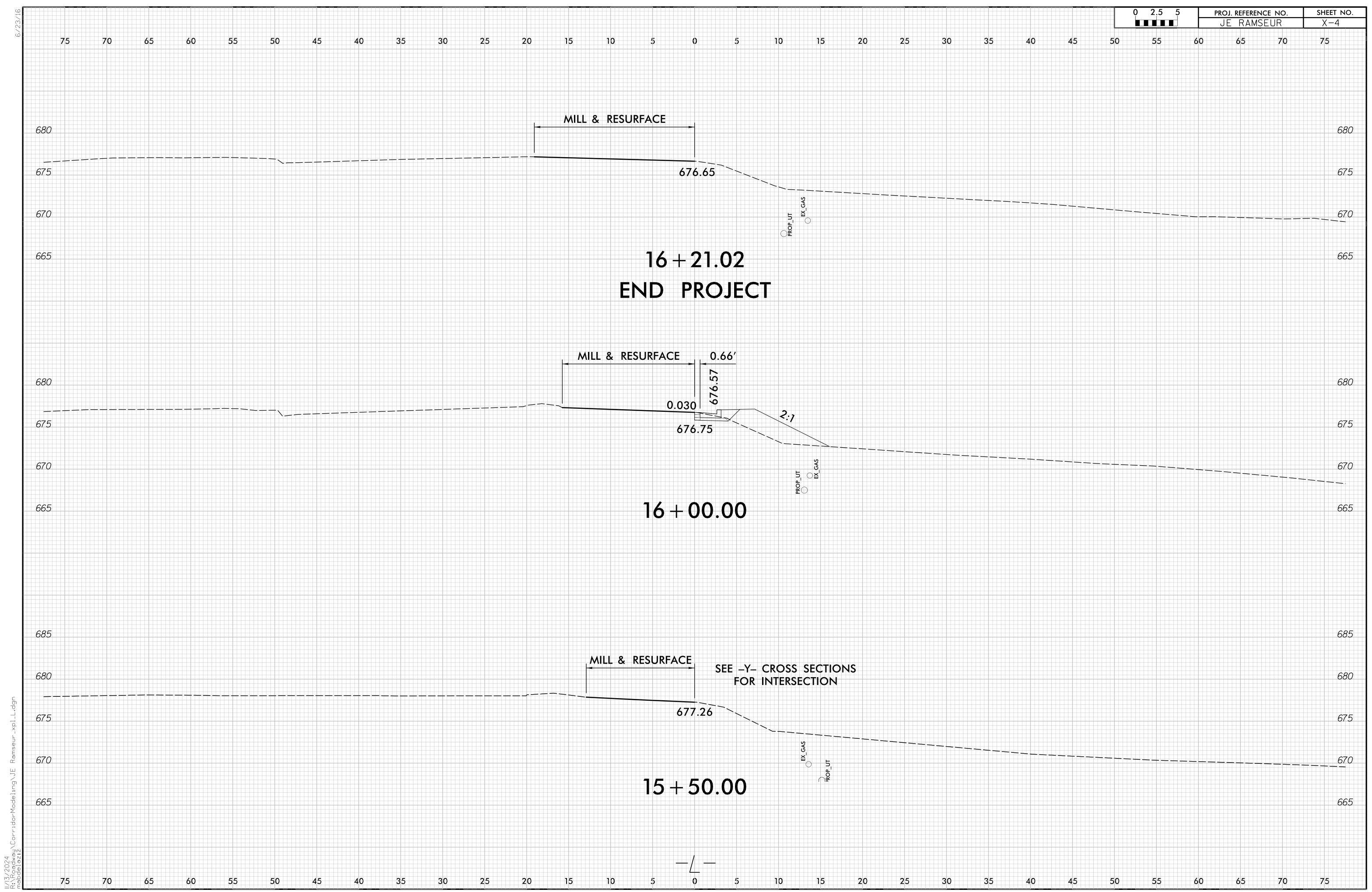


* NOTE: DRIVERAY THICKNESS IS 6" ABC.









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