

TRENTON PARK LANE

WINDY WOODS DRIVE-

METHOD OF GRADING: CLEARING ON THIS PROJECT SHALL BE TO LIMITS ESTABLISHED USING METHOD II.

GRAPHIC SCALES

PROFILE (HORIZONTAL)

BEGIN CONSTRUCTION

MUP - INT1 100+00.00

TRENTON ROAD-

(SR-1655)

PROFILE (VERTICAL)

DESIGN DATA

DESIGN SPEED = 20 MPH

LEAN ANGLE = 20 DEGREES

FUNC. CLASSIFICATION = TRANSPORTATION

RALEIGH, WAKE COUNTY NORTH CAROLINA

TRENTON ROAD CONNECTOR

PROJECT DESCRIPTION:

10' WIDE MULTI-USE PATH CONNECTING TRENTON PARK LANE TO EXISTING MULTI-USE PATH ALONG OLD REEDY CREEK ROAD

TYPE OF WORK:

TRINITY FARMS ROAD-

GRADING, PAVING, DRAINAGE, PAVEMENT MARKING, & EROSION CONTROL

SILENT STREAM COURT

CITY OF RALEIGH #: 274-PR-TrentonRd-081122

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Public Improvement Quantities

PHASE 1

3,750 LF

TRAFFIC CONTROL AND PEDESTRIAN PLAN (TCPED) NOTES:

- PRIOR TO ANY WORK THAT IMPACTS THE RIGHT-OF-WAY, CLOSING OR DETOURING OF ANY STREET, LANE, OR SIDEWALK, THE CONTRACTOR MUST APPLY FOR A PERMIT WITH RIGHT-OF-WAY SERVICES. PLEASE DIRECT ANY QUESTIONS TO rightofwayservices@raleighnc.gov.
 THE STREET, LANE, SIDEWALK, CLOSURE PERMIT IS REQUIRED FOR ANY
 CLOSURE ON CITY STREETS AND ALL NCDOT STREETS WITHIN RALEIGH'S
- ALL TCPED PLANS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND STANDARDS, INCLUDING BUT NOT LIMITED TO:
- MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD)
- MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD);
 PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG);
 AMERICAN DISABILITY ACT (ADA) REQUIREMENTS;
 RALEIGH STREET DESIGN MANUAL (RSDM).
 ALL PUBLIC SIDEWALKS MUST BE ACCESSIBLE TO PEDESTRIANS WHO ARE VISUALLY IMPAIRED AND/OR PEOPLE WITH MOBILITY CONCERNS. EXISTING AND ALTERNATIVE PEDESTRIAN ROUTES DURING CONSTRUCTION SHALL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), THE ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON
- ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 ALL PERMITS MUST BE AVAILABLE AND VISIBLE ON SITE DURING THE



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permit associated with a Site Permit Review, or permits for an apartment, office, and/or commercial uses.

GENERAL INFORMATION Proposed Use: Multi-Use Path within Existing R/W Development Name: Trenton Rd Connector Property Address(es): Trenton Rd between Trenton Park Ln and Reedy Creek Rd Approved Site Plan or Subdivision case #: Wake County Property Identification Number(s) (PIN) for each parcel to which these guidelines will apply: PIN #: N/A PIN #: N/A PIN #: N/A Bank Congregate care Apartment Hospital Mixed residential Non-residential condo Religious institution Residential condo What is the Telecommunication Shopping center

This form must be completed and applied to the cover sheet of drawings submitted with a Non-Residential building

Grading, Paving, Drainage, Pavement Marking, Signing, & Erosion Control FOR APARTMENTS, CONDOS, AND TOWNHOMES ONLY 1. Total number of townhouse lots: Number attached: Number detached: 2. Total number of apartment or condominium units:

3. Total number of Congregate Care or Life Care Dwelling units: 4. Overall total number of dwelling units (from 1-3 above): 5. Number of bedroom units: 1BR: 4BR or more: 6. Overall unit(s) per acre densities per zoning district(s): DEVELOPMENT TYPE AND SITE DATA TABLE (applicable to all developments) **Building Information** Zoning Information

Zoning district(s): R-2 Proposed use of building(s): If more than one district, provide acreage of each: Proposed sq. ft. of building(s) gross: Existing sq. ft. of building(s) gross: Overlay district(s): MPOD & SHOD-1 Total sq. ft. gross (existing and proposed): Total site acreage: 2.0 ac within Existing R/W Off street parking: Required: Proposed height of building(s): FAR (floor area ratio) %: COA (Certificate of Appropriateness) case #: Building lot coverage %: BOA (Board of Adjustment) case # A -Inside City Limits? Yes No CUD (Conditional Use District) case # Z -

REVISION 11.16.20 raleighnc.gov PAGE 1 OF 2

STORMWATER INFORMATION Existing impervious surface: 0.49 (21,765) acres/square feet Proposed impervious surface: 1.15 (50,200) acres/square feet Wetlands: Yes No Flood Hazard Area: Yes No 🗸 If yes, Alluvial soils: FEMA Map Panel #: N/A Total disturbed area: 2.0 (87,120) acres/square feet

MCADAMS

HORIZONTAL

PROJECT LENGTH

TOTAL LENGTH OF PROJECT = 0.71 MILES

=MUP - INT1 100+44.00

L1 13+36.00-

GREENWAY ENGINEER 042574

TRENTON ROAD CONNECTOR

Number of Lot (s)

Number of Units

Livable Buildings

Public Water (LF)

Public Sewer (LF)

Street Signs (LF)

Water Service Stubs

Sewer Service Stubs

Public Street (LF) - FULL

Public Street (LF) - PARTIAL

Public Sidewalk (LF) - FULL

Public Sidewalk (LF) - PARTIAL

Open Space?

Lot Number (s) by Phase

Number of Open Space Lots

TRENTON WOODS WAY

L1 49+99.52-

=MUP - INT2 200+00.00

REEDY CREEK ROAD-

END CONSTRUCTION

MUP - INT2 200+64.69

MANORBROOK RD-

TRENTON PARK LANE TO REEDY CREEK RD

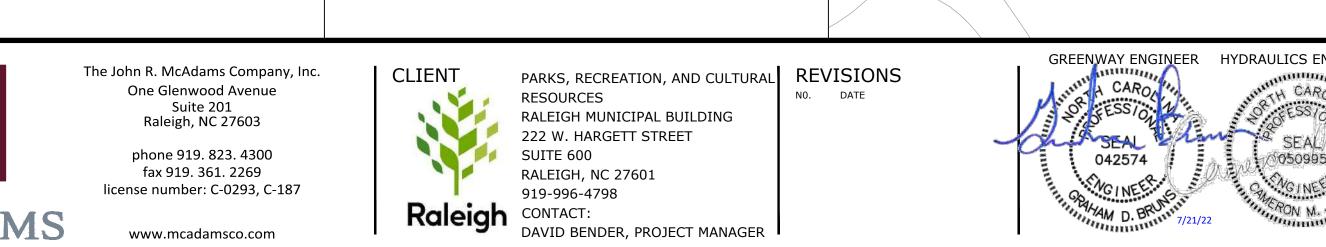
COVER SHEET

PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_CS_COR DS.dw CHECKED BY GDB DRAWN BY JP, ED 1'' = 200'

07/21/2022

DATE

FINAL DRAWINGS- RELEASED FOR CONSTRUCTION



- 2. WHERE ASPHALT SECTION IS REMOVED, CONTRACTOR SHALL USE A SAW CUT AT THE LIMIT OF DEMOLITION TO OBTAIN A CLEAN EDGE.
- 3. NO GRADING IS TO OCCUR IN THE TREE PROTECTION AREAS OR TREE CRITICAL ROOT ZONE.
- 4. THE CONTRACTOR MUST, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIM, HIS EMPLOYEES, OR HIS WORK. ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY
- EXISTING UTILITIES AND STRUCTURES SHOWN BOTH UNDERGROUND AND ABOVE ARE BASED ON THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- CONTRACTOR SHALL LOCATE ALL UTILITIES AND UTILITY ELEVATIONS PRIOR TO CONSTRUCTION BY CALLING 811 (1-800-632-4949). ALL UTILITIES TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR. ANY UTILITIES DAMAGED DURING CONSTRÚCTION SHALL BE REPAIRED BY CONTRACTOR.
- 7. CONTRACTOR SHALL RESTORE ALL LAY DOWN AND STAGING AREAS TO ORIGINAL CONDITIONS AND TO THE SATISFACTION OF THE OWNER, PRIOR TO DEMOBILIZATION AT THE CONCLUSION OF THE PROJECT.
- 8. SHOULDERS SHALL BE SEEDED AND MULCHED AT THE SAME RATE AND WITH THE SAME SEED MIX USED FOR THE REST OF THE PROJECT.
- 9. ANY EXCAVATION MUST BE FILLED IN AND TAMPED AT THE CONCLUSION OF EACH WORK PERIOD, AND EQUIPMENT AND SUPPLIES RETURNED TO THE CONSTRUCTION STAGING AREA.
- 10. ORANGE CONSTRUCTION/SAFETY FENCING REMOVED TO FACILITATE ACCESS BY THE CONTRACTOR FOR CONSTRUCTION MUST BE REPLACED AT THE END OF EACH WORK PERIOD TO DIRECT PEDESTRIAN AND VEHICULAR TRAFFIC AWAY FROM HAZARDOUS AREAS.
- 11. CONTRACTOR SHALL STAKE CENTERLINE OF TRAIL ACCORDING TO PLANS AND OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION.
- 12. CONTRACTOR SHALL REVIEW TREE REMOVAL WITH OWNER'S REPRESENTATIVE AND OBTAIN APPROVAL PRIOR TO TREE REMOVAL. TRIM UP BRANCHES OF TREES TO PROVIDE 10-FT VERTICAL CLEARANCE ABOVE PAVEMENT SURFACE
- 13. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH PROJECT AS SET FORTH IN THESE PLANS. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED TO THE OWNER IN WRITING FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER.
- 14. TREES AND PLANTS WILL NOT BE DAMAGED OR REMOVED IN ORDER TO SERVICE AND MAINTAIN THE UTILITY, SIDEWALK,
- 15. SUPERELEVATION TRANSITION IS SHOWN ON THE PLAN VIEW.
- 16. CONTRACTOR SHALL INSTALL REQUIRED TREE PROTECTION FENCE AS SHOWN ON THE APPROVED PLAN AND HAVE IT INSPECTED BY CITY STAFF BEFORE PROCEEDING WITH ADDITIONAL WORK.
- 17. CONTRACTOR SHALL REFRAIN FROM ADDITIONAL CONSTRUCTION ACTIVITIES ON CITY-OWNED OR CONTROLLED PROPERTY UNTIL A SATISFACTORY INSPECTION HAS BEEN COMPLETED BY THE CITY OF THE REQUIRED TREE PROTECTION FENCING AS APPROVED. DISTURBANCE WITHIN THE REQUIRED TREE PROTECTION AREAS WILL RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND MAY REQUIRE MITIGATION INCLUDING BUT NOT LIMITED TO MONETARY PENALTIES, PRUNING, TREE REMOVAL, AND REPLANTING AS DETERMINED BY THE CITY.
- 18. ADDITIONAL TREES MAY BE REQUIRED TO BE REMOVED ON CITY-OWNED OR CONTROLLED PROPERTY AT THE DISCRETION OF THE URBAN FORESTER.
- 19. ADJUST THE POSTED SPEED LIMIT BETWEEN REEDY CREEK ROAD AND TRENTON PARK LANE TO 25-MPH BEFORE OPENING THE PROJECT TO THE PUBLIC.

NCDOT STANDARDS:

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - 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

DIVISION 2 - EARTHWORK

200.02 Method of Clearing - Method II

DIVISION 3 - PIPE CULVERTS

300.01 Method of Pipe Installation 310.10 Driveway Pipe Construction

DIVISION 8 - INCIDENTALS

840.14 Concrete Drop Inlet - 12" thru 30" Pipe

Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15

840.31 Concrete Junction Box (with Optional Manhole) - 12" thru 66" Pipe 840.51 Brick Manhole - 12" thru 36" Pipe

Precast Manhole 4', 5', and 6' Diameter - 12" thru 48" Pipe Precast Manhole w/ Masonry Base- 12" thru 42" Pipe

840.54 Manhole Frame and Cover

840.72 Pipe Collar

Concrete Curb, Gutter, and Curb & Gutter

Concrete Sidewalk

Concrete Islands 852.01

Guide for Rip Rap at Pipe Outlets

Drainage Ditches with Class 'B' Rip Rap

DIVISION 9 - SIGNING

904.10 Orientation of Ground Mounted Signs

904.50 Mounting of Type 'D', 'E', and 'F' Signs on 'U' Channel Posts

DIVISION 11 - WORK ZONE TRAFFIC CONTROL

1101.02 Temporary Lane Closures

1101.04 Temporary Shoulder Closures 1101.11 Traffic Control Design Tables

1130.01 Drum

1135.01 Cones

1150.01 Flagging Devices 1180.01 Skinny Drum

DIVISION 12 - PAVEMENT MARKINGS, MARKERS, AND DELINEATION

1205.01 Pavement Markings - Line Types and Offsets

1205.07 Pavement Markings - Pedestrian Crosswalks

1205.08 Pavement Markings - Symbols and Word Messages

1266.01 Raised Pavement Markers - Tubular Markers

DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT SEE SHEET EC-2A

ADDITIONAL NCDOT STANDARDS NOT ON THE LIST ABOVE MAY BE REQUIRED AS PER PLAN DETAILS AND SPECIFICATIONS.

CITY OF RALEIGH STANDARDS:

TRANSPORTATION

Residential Driveway Installation on Non Curb & Guttered Streets T-10.03

Driveway Grades

Asphalt Pavement Patch T-10.05

T-10.26.1 Curb & Gutter

T-20.04.1 Detectable Warning Surface Placement

TREE PROTECTION AND PLANTING

Standard Tree Protection

Standard Temporary (sediment/silt) / Tree Conservation Area Fence Detail

WATER W-41

Concrete Cradle Protection for Water Line Crossings

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PARKS, RECREATION, AND CULTURAL REVISIONS RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798 CONTACT: DAVID BENDER, PROJECT MANAGER

NO. DATE

GREENWAY ENGINEER SEAL SEAL 042574 050995

TRENTON ROAD CONNECTOR

TRENTON PARK LANE TO REEDY CREEK RD

GENERAL NOTES

PROJECT NO. 2020110233

FILENAME 2020110233_D1.dwg CHECKED BY GDB DRAWN BY XXX

SCALE

DATE

PLAN INFORMATION

07/21/2022

FINAL DRAWINGS- RELEASED FOR CONSTRUCTION

CONVENTIONAL PLAN SHEET SYMBOLS

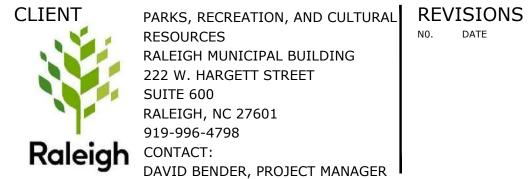
BOUNDARIES AND PROPERTY:	RAILROADS: Note: Not to S	Scale *.	S.U.E. = Subsurface Utility Engineering		WATER:	
State Line ————————————————————————————————————	•			~~~~~~~~~~	Water Manhole	- W
County Line	Standard Gauge	CSX TRANSPORTATION			Water Meter —	- 0
Township Line	RR Signal Milepost	MILEPOST 35	Woods Line		Water Valve	- ⊗
City Line	Switch —	SWITCH	Orchard —	6 6 6 6	Water Hydrant	- •◊
Reservation Line ————————————————————————————————————	RR Abandoned		Vineyard ————————————————————————————————————	Vineyard	U/G Water Line LOS B (S.U.E*)	
Property Line — — — —	RR Dismantled ————————————————————————————————————		EXISTING STRUCTURES:		U/G Water Line LOS C (S.U.E*)	
Existing Iron Pin —			MAJOR:		U/G Water Line LOS D (S.U.E*)	
Computed Property Corner — — — — — — — — — — — — — — — — — — —	, RIGHT OF WAY & PROJECT CO	ONTROL:	Bridge, Tunnel or Box Culvert ————	CONC	Above Ground Water Line	
Property Monument —	Secondary Horiz and Vert Control Point ——	<u> </u>	Bridge Wing Wall, Head Wall and End Wall -	CONC WW (
Parcel/Sequence Number — (23)	Primary Horiz Control Point ————	\bigcirc	MINOR:		TV: TV Pedestal ————————————————————————————————————	- F
Existing Fence Line ————————————————————————————————————	Primary Horiz and Vert Control Point ———	\bigcirc	Head and End Wall —————	CONC HW	TV Tower —	_
Proposed Woven Wire Fence ——————	Exist Permanent Easment Pin and Cap ———	\Diamond	Pipe Culvert ——————			-
Proposed Chain Link Fence	New Permanent Easement Pin and Cap —		Footbridge ————	>	U/G TV Cable Hand Hole	- <u>гн</u>
Proposed Barbed Wire Fence	Vertical Benchmark ——————	\boxtimes	Drainage Box: Catch Basin, DI or JB ———	СВ	U/G TV Cable LOS B (S.U.E.*)	
Existing Wetland Boundary ————————————————————————————————————	Existing Right of Way Marker ————	\triangle	Paved Ditch Gutter		U/G TV Cable LOS C (S.U.E.*)	
Proposed Wetland Boundary ————————————————————————————————————	Existing Right of Way Line ————		Storm Sewer Manhole ————	S	U/G TV Cable LOS D (S.U.E.*)	
Existing Endangered Animal Boundary ————————————————————————————————————	New Right of Way Line ————		Storm Sewer —	s	U/G Fiber Optic Cable LOS B (S.U.E.*)	
Existing Endangered Plant Boundary ————————————————————————————————————		<u> </u>	- UTILITIES:		U/G Fiber Optic Cable LOS C (S.U.E.*)	
Existing Historic Property Boundary ————————————————————————————————————		w –	CHEHHES.		U/G Fiber Optic Cable LOS D (S.U.E.*)	TV F0———
Known Contamination Area: Soil ————————————————————————————————————	New Right of Way Line with		POWER:	_	GAS:	
Potential Contamination Area: Soil ————————————————————————————————————	New Control of Access Line with	- (3)	Existing Power Pole		Gas Valve	- ♦
Known Contamination Area: Water ————————————————————————————————————	Concrete CA Marker			J	Gas Meter —	- ♦
Potential Contamination Area: Water ————————————————————————————————————	Existing Control of Access —————	—— (Ē) ——		-	U/G Gas Line LOS B (S.U.E.*)	
Contaminated Site: Known or Potential —	New Control of Access		_ Proposed Joint Use Pole	- 0-	U/G Gas Line LOS C (S.U.E.*)	
BUILDINGS AND OTHER CULTURE:	Existing Easement Line ——————	——Е——	_ Power Manhole ————————————————————————————————————	⊌	U/G Gas Line LOS D (S.U.E.*)	
	New Temporary Construction Easement –	E	Power Line Tower	Z Z	Above Ground Gas Line	A/G Gas
Gas Pump Vent or U/G Tank Cap — O	New Temporary Drainage Easement ——	TDE	_ Power Transformer	M	SANITARY SEWER:	
Sign —	New Permanent Drainage Easement ——	PDE			Sanitary Sewer Manhole	- (
Well —	New Permanent Drainage / Utility Easement	——DUE——	H-Frame Pole	•—•	Sanitary Sewer Mannole Sanitary Sewer Cleanout ————————————————————————————————————	
Small Mine 💮 🛠	New Permanent Utility Easement ————	PUE			U/G Sanitary Sewer Line ————————————————————————————————————	•
Foundation	New Temporary Utility Easement ———	TUE			Above Ground Sanitary Sewer —	
Area Outline	New Aerial Utility Easement —————	AUE	_ U/G Power Line LOS D (S.U.E.*) —	Р	SS Forced Main Line LOS B (S.U.E.*) ———	
Cemetery †			TELEPHONE:		SS Forced Main Line LOS C (S.U.E.*)	
Building	ROADS AND RELATED FEATUR	ES:	Existing Telephone Pole ————	-•-	SS Forced Main Line LOS D (S.U.E.*)	
School	Existing Edge of Pavement		Proposed Telephone Pole	- 0-	33 Forced Main Line LOS D (3.0.L.)	
Church —	Existing Curb —————		Telephone Manhole	(T)	MISCELLANEOUS:	
Dam — — — — — — — — — — — — — — — — — — —	Proposed Slope Stakes Cut ————	c	Telephone Pedestal ————————————————————————————————————	П	Utility Pole —	-
HYDROLOGY:	Proposed Slope Stakes Fill —————	F	Telephone Cell Tower ————	I	Utility Pole with Base —	- <u>□</u>
Stream or Body of Water — — — — — — — — — — — — — — — — — — —	Proposed Curb Ramp ————	CR	U/G Telephone Cable Hand Hole ———	₩.	Utility Located Object —	 - ⊙
Hydro, Pool or Reservoir ————— [U/G Telephone Cable LOS B (S.U.E.*)		Utility Traffic Signal Box —	
Jurisdictional Stream	Proposed Guardrali —	<u> </u>	U/G Telephone Cable LOS C (S.U.E.*)		Utility Unknown U/G Line LOS B (S.U.E.*)	
Buffer Zone 1 ———————————————————————————————————	Existing Cable Guiderail —————		_		U/G Tank; Water, Gas, Oil —	-
Buffer Zone 2 ———————————————————————————————————	Proposed Cable Guiderail	<u> </u>	U/G Telephone Cable LOS D (S.U.E.*)		Underground Storage Tank, Approx. Loc. ——	
Flow Arrow———————————————————————————————————	Equality Symbol —————	\oplus	U/G Telephone Conduit LOS B (S.U.E.*)		A/G Tank; Water, Gas, Oil ———————————————————————————————————	
Disappearing Stream ————————————————————————————————————	Pavement Removal ——————		U/G Telephone Conduit LOS C (S.U.E.*)		Geoenvironmental Boring —	
Spring — O	VEGETATION:		U/G Telephone Conduit LOS D (S.U.E.*)		U/G Test Hole LOS A (S.U.E.*)	· ·
Wetland ±	Single Tree	- &	U/G Fiber Optics Cable LOS B (S.U.E.*)		Abandoned According to Utility Records —	•
Proposed Lateral, Tail, Head Ditch ————————————————————————————————————	Single Shrub	- \$	U/G Fiber Optics Cable LOS C (S.U.E.*)		End of Information ————————————————————————————————————	- AATUK - E.O.I.
False Sump — — — — —	-		U/G Fiber Optics Cable LOS D (S.U.E.*)——	т ғо		
						FINAL DRAWINGS- RELEASED FOR CONSTRUCTION

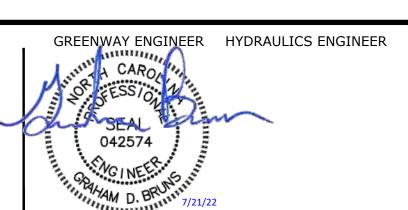


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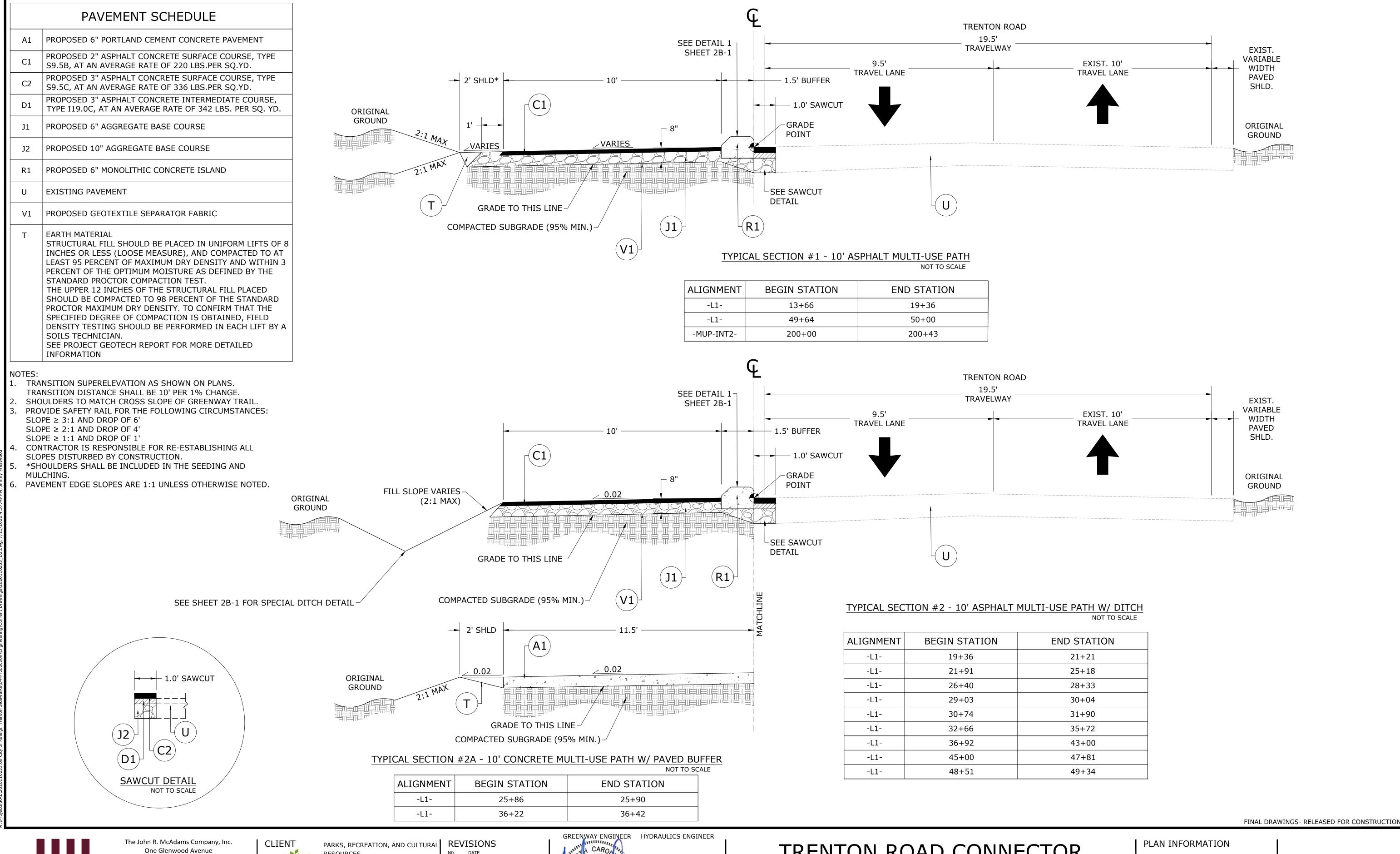




TRENTON PARK LANE TO REEDY CREEK RD

CONVENTIONAL SYMBOLS

PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_D1.dwg CHECKED BY GDB DRAWN BY JP, ED SCALE 07/21/2022 DATE





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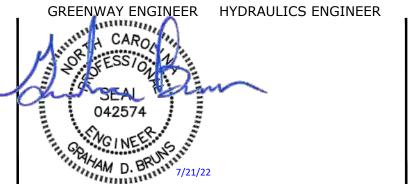
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DAVID BENDER, PROJECT MANAGER

RAL REVISIONS
NO. DATE



TRENTON ROAD CONNECTOR

TRENTON PARK LANE TO REEDY CREEK RD

TYPICAL SECTIONS

PROJECT NO. 2020110233
FILENAME 2020110233_D2.dwg
CHECKED BY GDB
DRAWN BY xxx
SCALE NTS

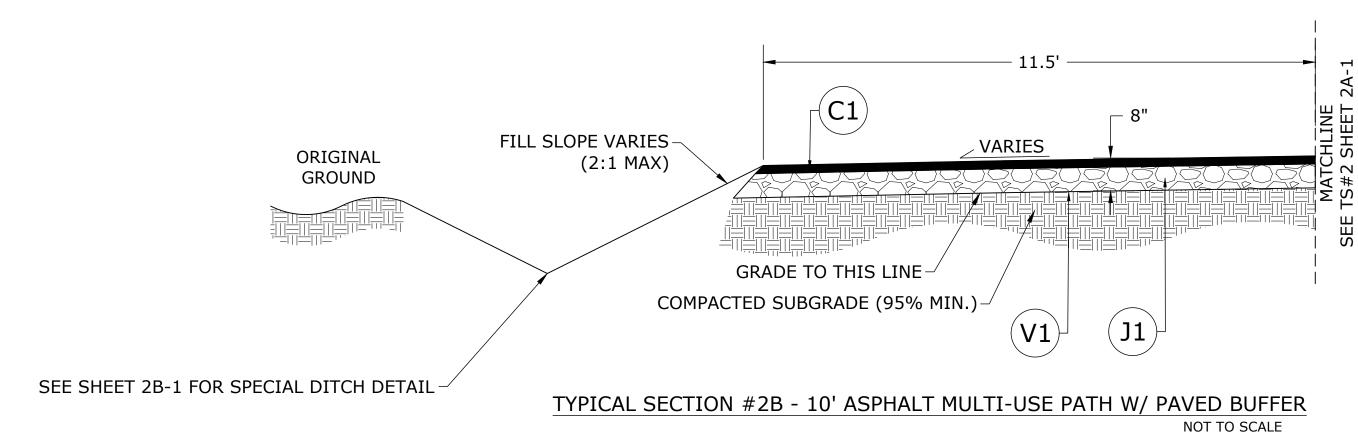
DATE

07/21/2022

2A-1

PAVEMENT SCHEDULE PROPOSED 6" PORTLAND CEMENT CONCRETE PAVEMENT PROPOSED 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS.PER SQ.YD. PROPOSED 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 336 LBS.PER SQ.YD. PROPOSED 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. PROPOSED 6" AGGREGATE BASE COURSE PROPOSED 10" AGGREGATE BASE COURSE PROPOSED 6" MONOLITHIC CONCRETE ISLAND EXISTING PAVEMENT PROPOSED GEOTEXTILE SEPARATOR FABRIC EARTH MATERIAL STRUCTURAL FILL SHOULD BE PLACED IN UNIFORM LIFTS OF 8 INCHES OR LESS (LOOSE MEASURE), AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY AND WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE AS DEFINED BY THE STANDARD PROCTOR COMPACTION TEST. THE UPPER 12 INCHES OF THE STRUCTURAL FILL PLACED SHOULD BE COMPACTED TO 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. TO CONFIRM THAT THE SPECIFIED DEGREE OF COMPACTION IS OBTAINED, FIELD DENSITY TESTING SHOULD BE PERFORMED IN EACH LIFT BY A SOILS TECHNICIAN. SEE PROJECT GEOTECH REPORT FOR MORE DETAILED INFORMATION

- TRANSITION SUPERELEVATION AS SHOWN ON PLANS.
- TRANSITION DISTANCE SHALL BE 10' PER 1% CHANGE.
- SHOULDERS TO MATCH CROSS SLOPE OF GREENWAY TRAIL. PROVIDE SAFETY RAIL FOR THE FOLLOWING CIRCUMSTANCES:
- SLOPE ≥ 3:1 AND DROP OF 6' SLOPE ≥ 2:1 AND DROP OF 4'
- SLOPE ≥ 1:1 AND DROP OF 1'
- CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ALL
- SLOPES DISTURBED BY CONSTRUCTION.
- *SHOULDERS SHALL BE INCLUDED IN THE SEEDING AND
- MULCHING.
- 6. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.



-L1-

-L1-

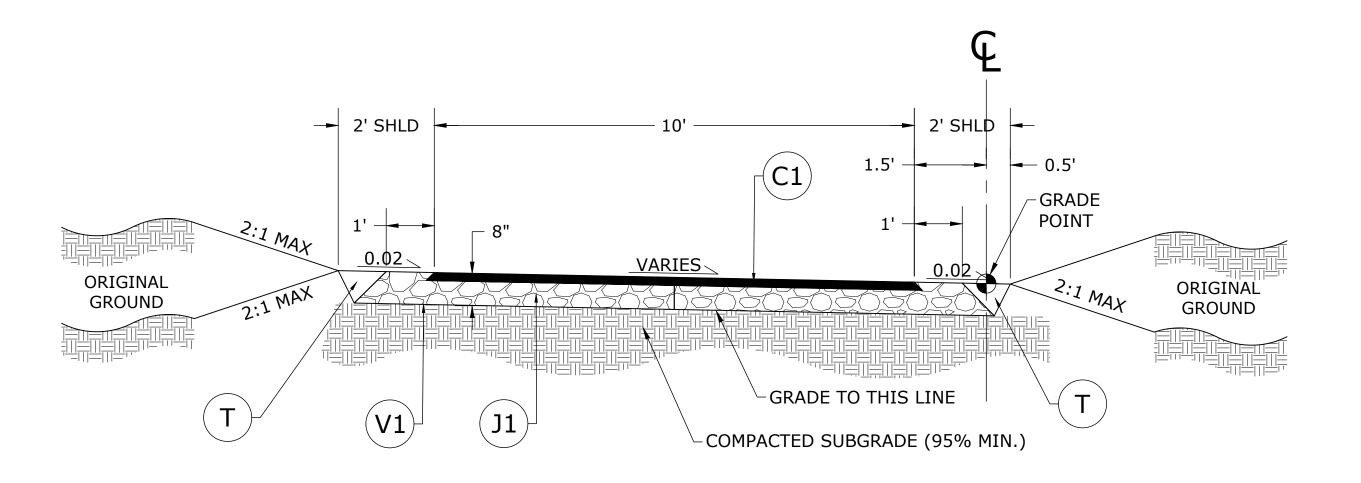
BEGIN STATION ALIGNMENT END STATION 21+21 21+41 21+71 21+91 25+18 25+38 26+20 26+40 -L1--L1-28+33 28+53 28+83 29+03 -L1-30+04 30 + 2430 + 5430+74 -L1--L1-35+72 35+92 -L1-36+72 36+92

48+01

48+51

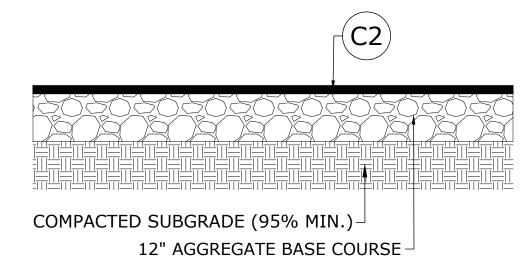
47+81

48+31



TYPICAL SECTION #3 - 10' ASPHALT MULTI-USE PATH NOT TO SCALE

ALIGNMENT	BEGIN STATION	END STATION
-MUP-INT2-	200+43	200+65



ROADWAY PAVEMENT RESURFACING SECTION NOT TO SCALE

NOTE:

- 1. SECTION TO BE USED FOR RESURFACING LOCATIONS AT TRINITY FARMS ROAD AND TRENTON WOODS WAY. SEE PLANS.
- 2. THIS ROADWAY SECTION IS NOT TO BE USED ON NCDOT ROADWAYS.

FINAL DRAWINGS- RELEASED FOR CONSTRUCTION



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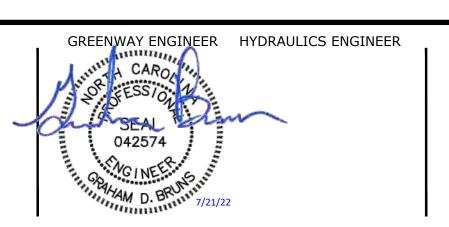
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DAVID BENDER, PROJECT MANAGER

NO. DATE



TRENTON ROAD CONNECTOR

TRENTON PARK LANE TO REEDY CREEK RD

TYPICAL SECTIONS

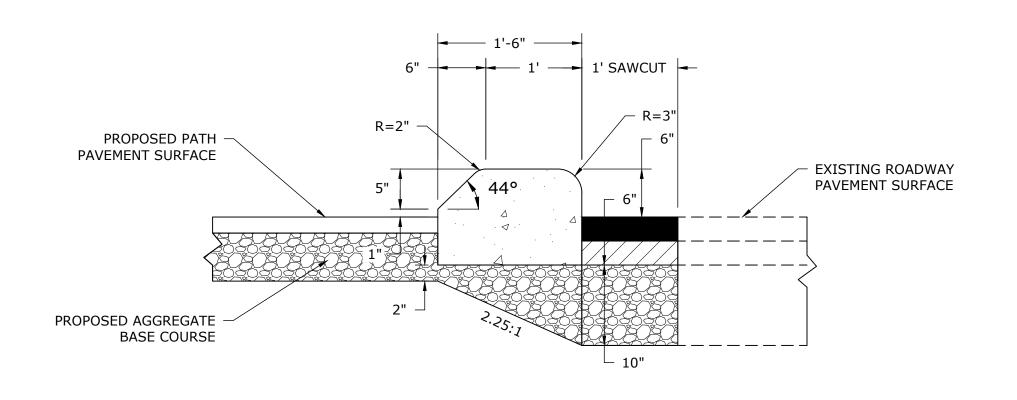
PLAN INFORMATION PROJECT NO. 2020110233

07/21/2022

FILENAME 2020110233_D2.dwg CHECKED BY GDB DRAWN BY xxx SCALE

DATE

2A-2

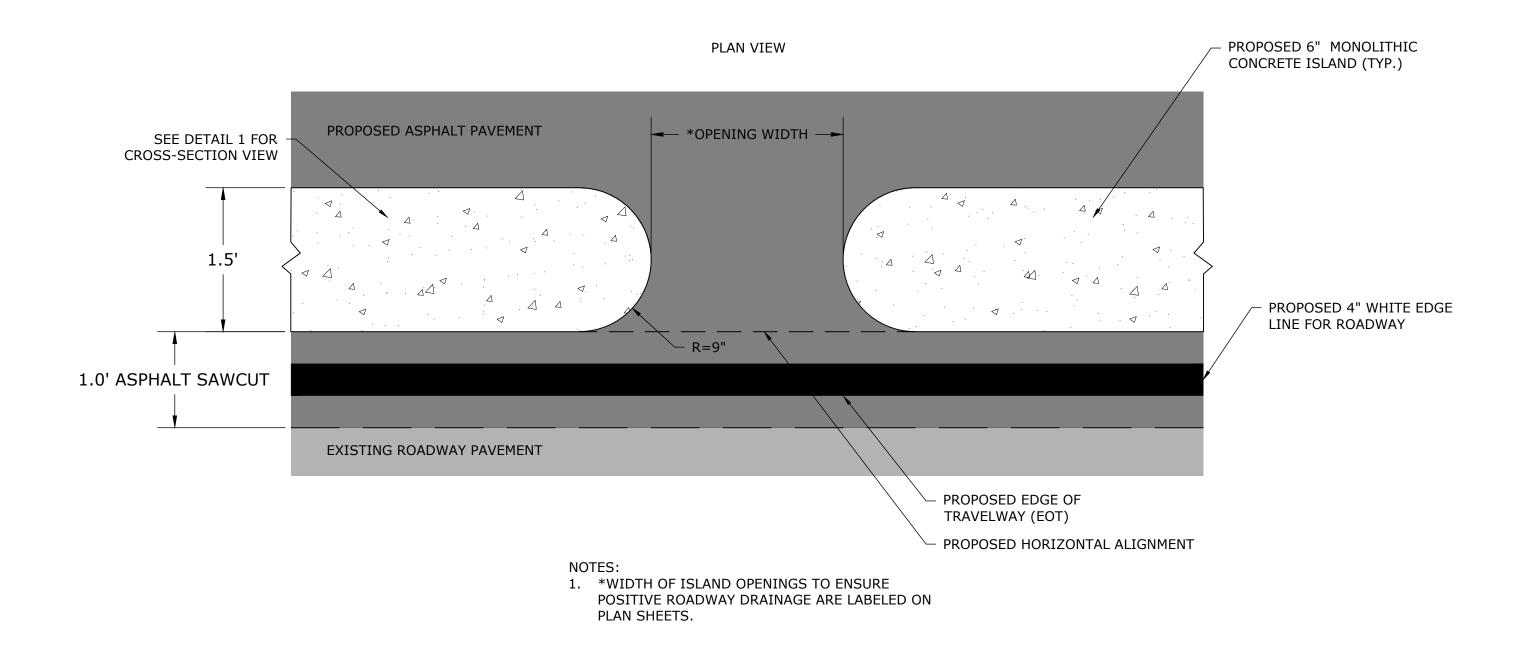


DETAIL A SPECIAL LATERAL 'V' DITCH **NOT TO SCALE** MIN D = 1.0 FT

DITCH	ALIGNMENT	BEGIN STATION	END STATION
1	-L1-	19+36	21+00
2	-L1-	21+00	22+98
3	-L1-	22+98	33+45
4	-L1-	33+45	45+24
5	-L1-	45+24	47+30
6	-L1-	47+30	49+27

- 1. ALL PROPOSED DITCHES ARE ALONG LEFT SIDE OF -L1- ALIGNMENT.
- 2. DITCH STATION RANGES SHOWN ARE NOT BROKEN ACROSS PROPOSED DRIVEWAY PIPE SEGMENTS AND ARE NUMBERED TO REFLECT SHARED DRAINAGE DIRECTION/PATTERNS.
- 3. ALL DITCH SIDE SLOPES SHALL REMAIN WITHIN THE EXISTING RIGHT-OF-WAY.
- 4. SEE PLANS FOR COIR FIBER MATTING LOCATIONS.
- 5. DITCH SLOPES SHALL BE ARMORED WHEN SIDE SLOPES ARE STEEPER THAN 2:1 OR LONGITUDINAL SLOPE EXCEEDS 4.0%.
- 6. REFER TO CROSS SECTIONS FOR ADDITIONAL DITCH INFORMATION.

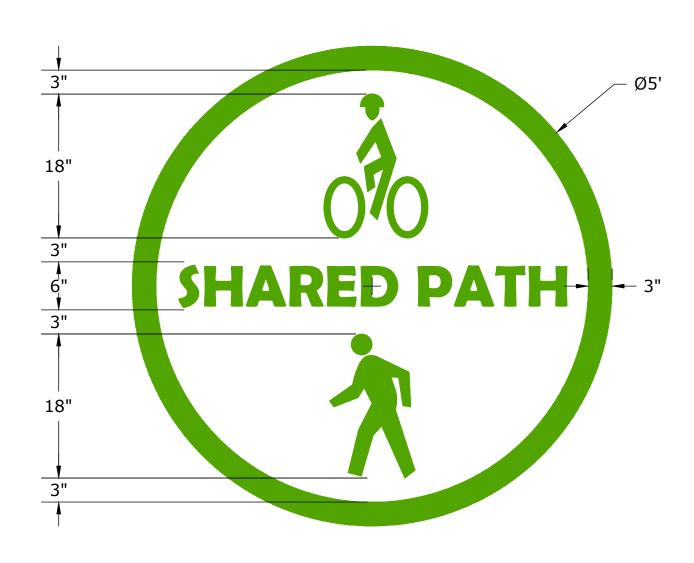
01 6" MONOLITHIC CONCRETE ISLAND SCALE: NTS



MONOLITHIC ISLAND BREAK/OPENING

SCALE: NTS

02 SPECIAL DITCH DETAIL SCALE: NTS



O4 SCALE: NTS

SHARED-USE PATH PAVEMENT MARKING SYMBOL

FINAL DRAWINGS- RELEASED FOR CONSTRUCTION

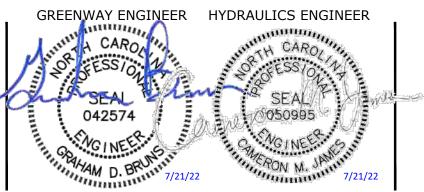


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TRENTON ROAD CONNECTOR

TRENTON PARK LANE TO REEDY CREEK RD

DETAILS

PLAN INFORMATION PROJECT NO. 2020110233

07/21/2022

FILENAME 2020110233_D2.dwg CHECKED BY GDB DRAWN BY JP, ED

DATE

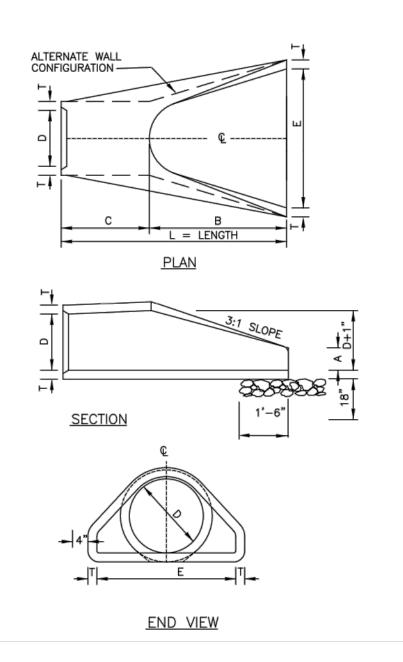


	TABLE OF DIMENSIONS								
D	T	Α	В	С	E	L	WT.		
12"	2-1/4"	4"	2'-0"	4'-1"	2'-0"	6'-1"	730		
15"	2-1/4"	6"	2'-3"	3'-10"	2'-0"	6'-1"	730		
18"	2-1/2"	9"	2'-3"	3'-10"	3'-0"	6'-1"	1190		
24"	3"	10"	3'-8"	2'-6"	4'-0"	6'-2"	1770		
30"	3-1/2"	1'-0"	4'-6"	1'-8"	5'-0"	6'-2"	2380		
36"	4"	1'-3"	5'-3"	2'-11"	6'-0"	8'-2"	5320		
42"	4-1/2"	1'-9"	5'-3"	2'-11"	6'-6"	8'-2"	5920		
48"	5"	2'-0"	6'-0"	2'-2"	7'-0"	8'-2"	7470		
54"	5-1/2"	2'-3"	5'-6"	2'-10"	7'-6"	8'-4"	8810		
60"	6"	2'-6"	5'-0"	3'-3"	8'-0"	8'-3"	11180		
66"	6-1/2"	3'-0"	6'-0"	2'-3"	8'-6"	8'-3"	12530		
72"	7"	3'-0"	6'-6"	1'-9"	9'-0"	8'-3"	13980		

GENERAL NOTES:

- SEE FORMER NCDOT STANDARD 310.01 FOR DETAILS.
- 2. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M170, TABLE 2, WALL B.
- 3. ALL CONCRETE TO BE 3600 P.S.I COMPRESSIVE STRENGTH.
- 4. PROVIDE TONGUE OR SPIGOT JOINT AT INLET END SECTION. PROVIDE GROOVE OR BELL JOINT AT OUTLET END SECTION.
- 6. THE DIMENSIONS FOR END SECTIONS SHALL SUBSTANTIALLY AGREE WITH THE TABLE. MINOR VARIATIONS WILL BE PERMITTED BASED ON THE MANUFACTURER'S STANDARD FORMS AND TEMPLATES.

CHAMFER ON TOP EDGES (TYP.) 2x6 P.T. RAILS (TYP.) -FINISH GRADE -ATTACH EACH RAIL WITH (2) 3/8"-GALVANIZED CARRIAGE BOLTS (TYP.) 95% COMPACTED -SUBGRADE CONCRETE FOOTING -WITH #5 WASHED STONE BASE (TYP.)

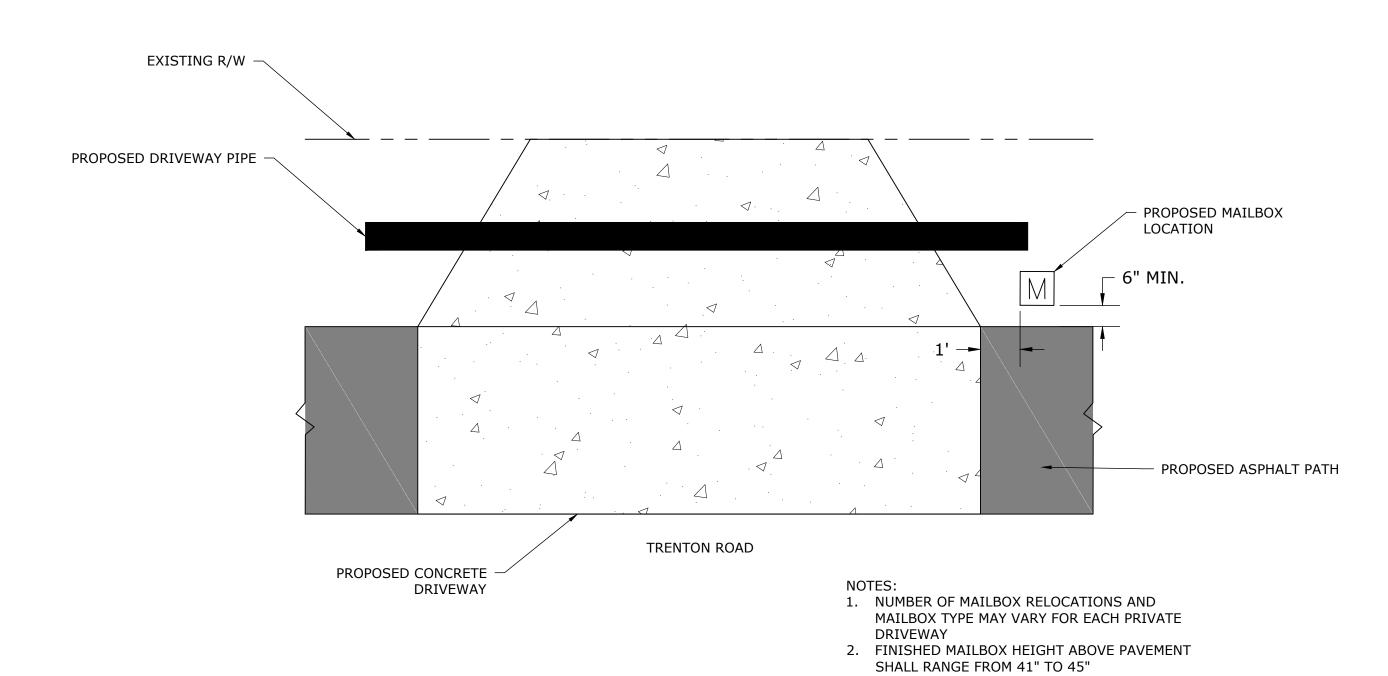
— 8'-0" О.С. МАХ. —

1. ALL WOOD COMPONENTS SHALL BE PRESSURE TREATED (P.T.). 2. ALL CONCRETE TO HAVE 3600 PSI MINIMUM COMPRESSIVE STRENGTH.

- 4x6 P.T. POSTS WITH 1-1/2"

- 3. BACKFILL ALL POSTS AND RESTORE GRADE AT POST BASE TO ORIGINAL CONDITION.
- REMOVE ANY EXCESS SOIL/WASE CONCRETE FROM POST BASE.
- 4. CARRIAGE BOLTS TO EXTEND THROUGH FULL POST THICKNESS. REMOVE ANY EXCESS BOLT LENGTH BEYOND 1/4" PAST THE NUT. SHARP EDGES TO BE FILED DOWN.

01 FLARED END SECTION SCALE: NTS



MAILBOX RELOCATION/PLACEMENT AT DRIVEWAYS

SCALE: NTS

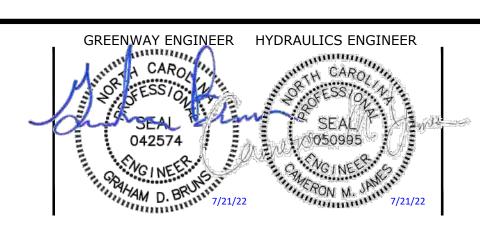
FINAL DRAWINGS- RELEASED FOR CONSTRUCTION



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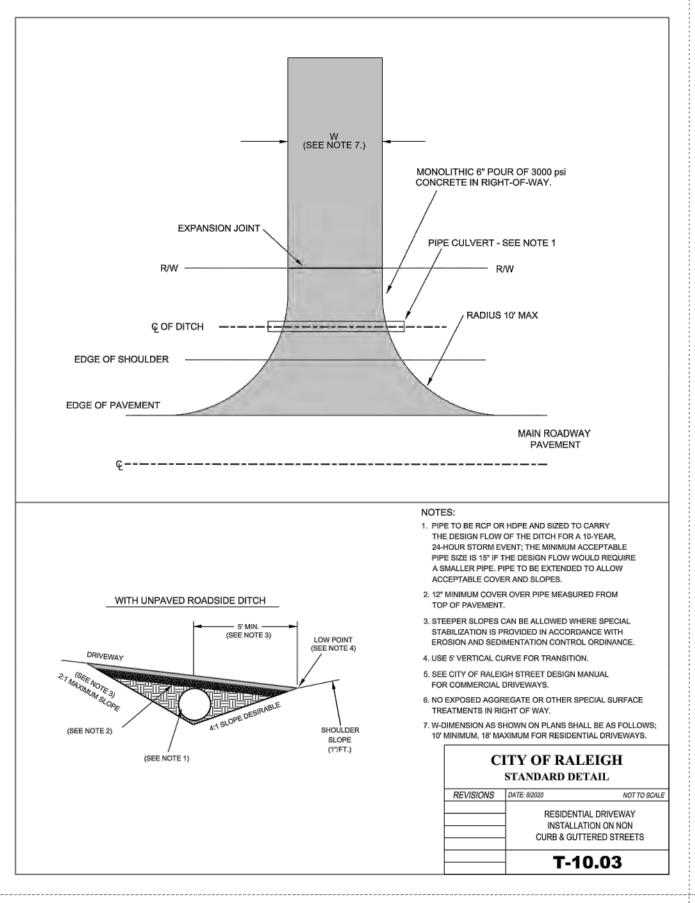
TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

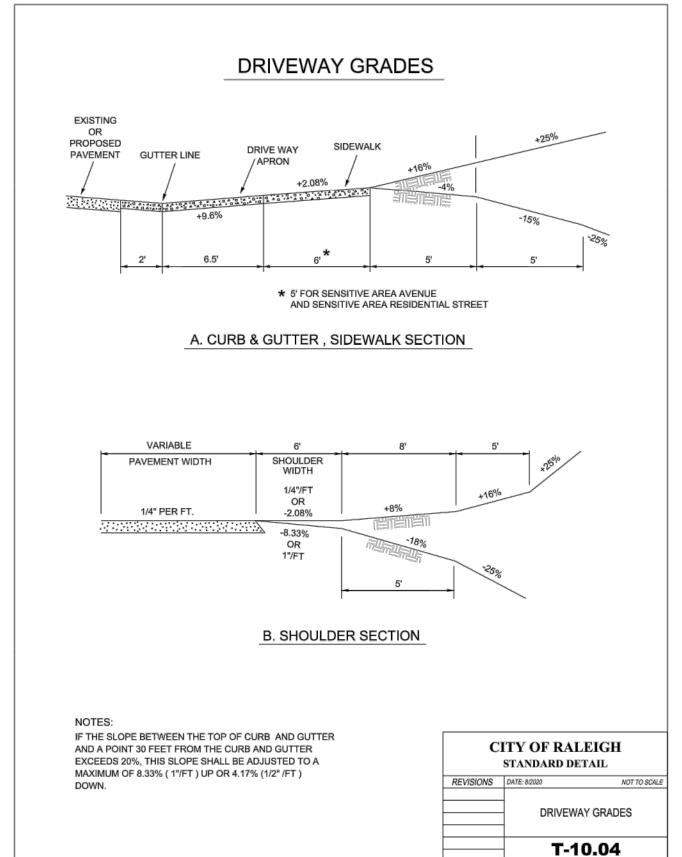
DETAILS

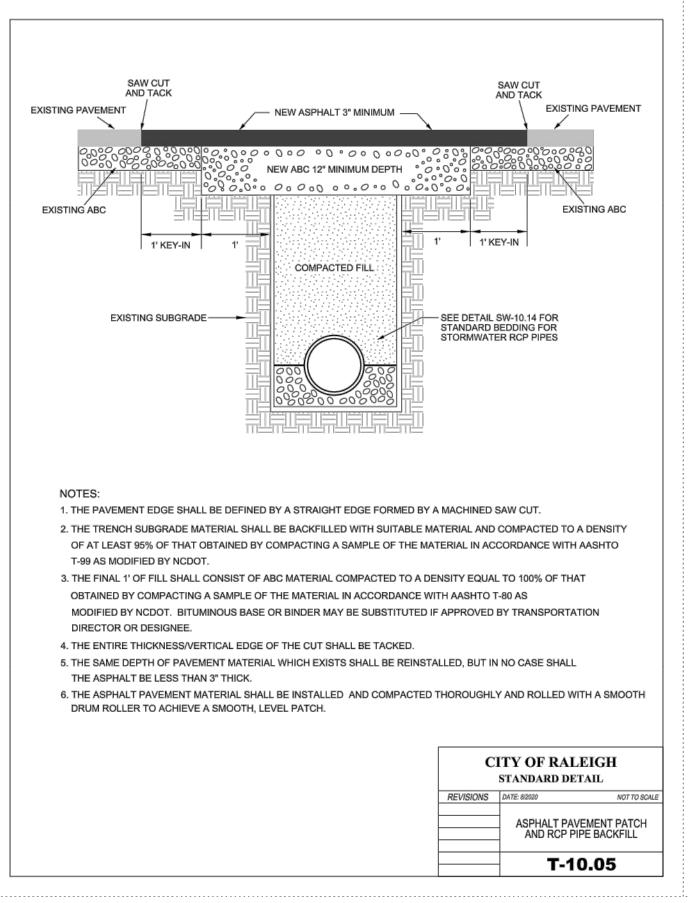
PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_D2.dwg

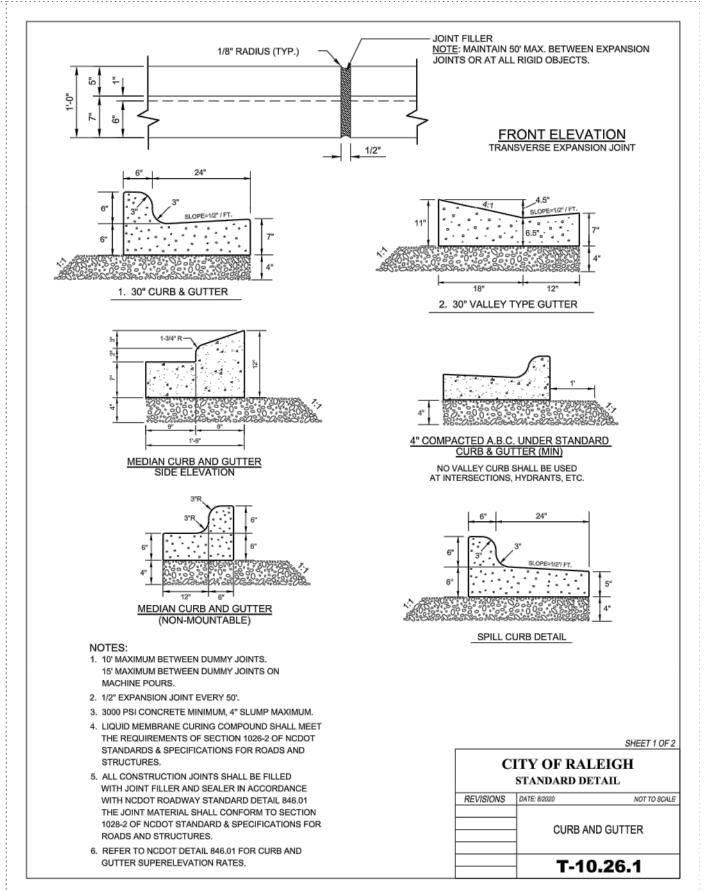
CHECKED BY GDB DRAWN BY JP, ED SCALE 07/21/2022

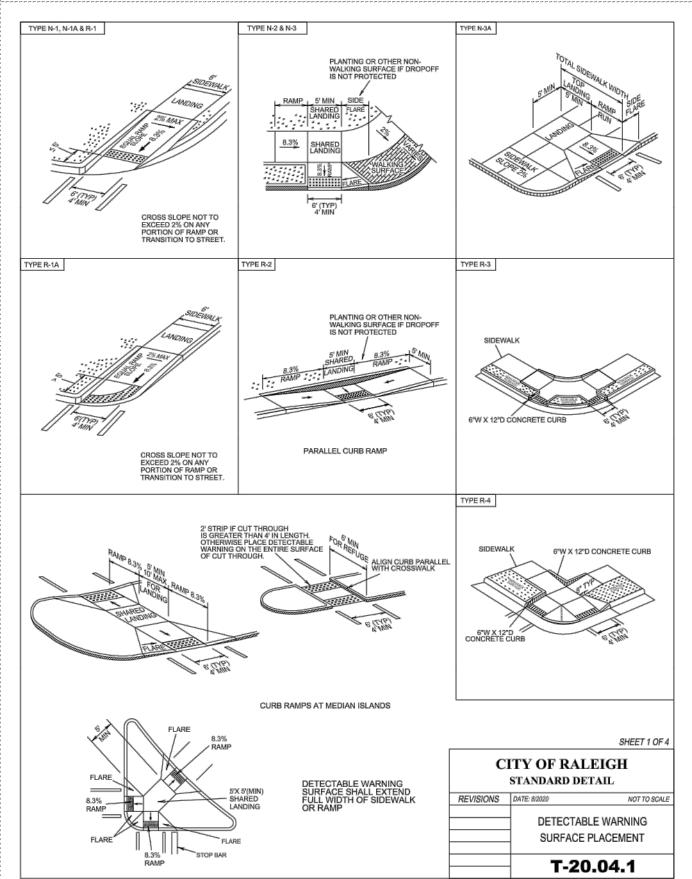
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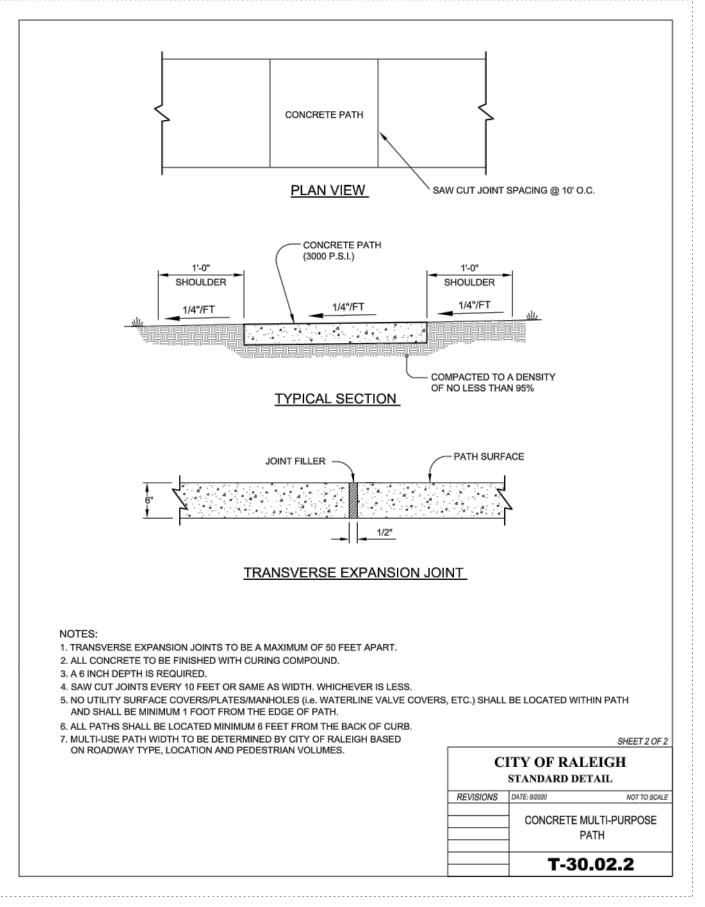


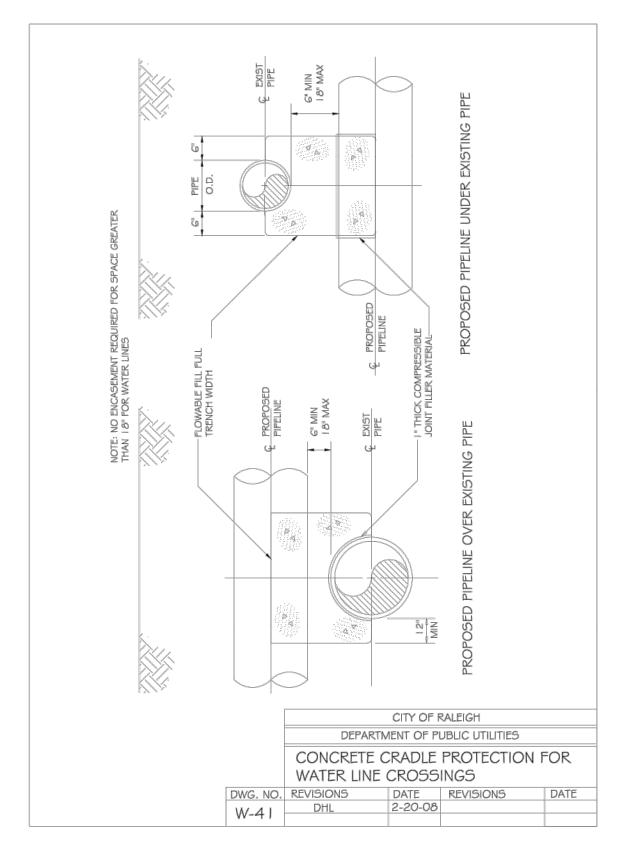












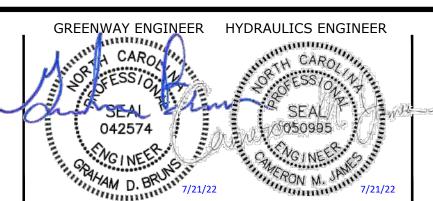
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TRENTON ROAD CONNECTOR

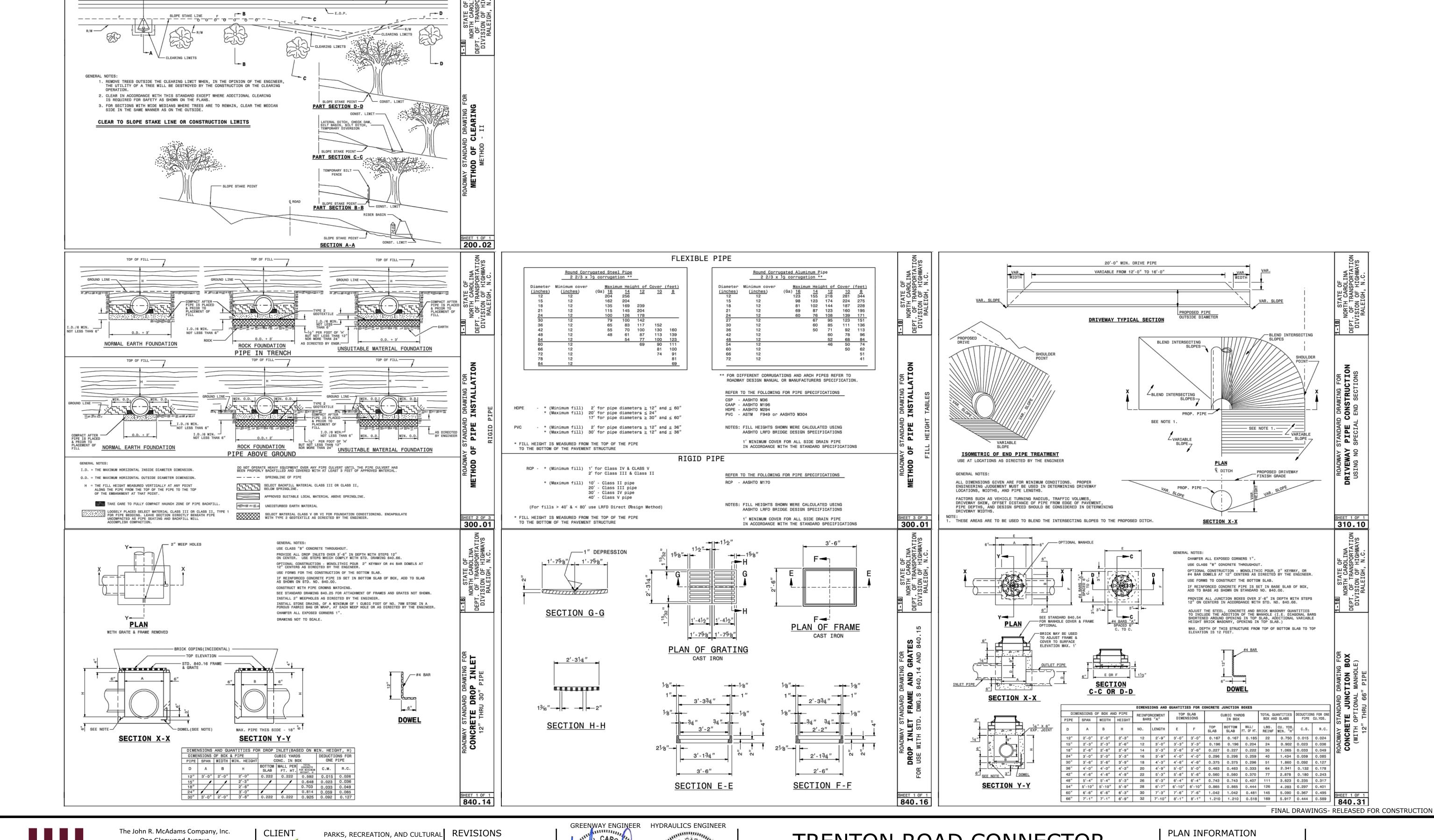
TRENTON PARK LANE TO REEDY CREEK RD

DETAILS

PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_D2.dwg CHECKED BY GDB DRAWN BY JP, ED SCALE

DATE

07/21/2022





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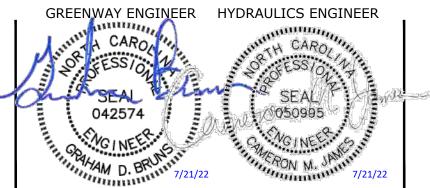


CLEARING LIMITS

- - - - - - - - - - SLOPE STAKE LINE

_E.O.P. __R/W

REVISIONS
NO. DATE





TRENTON PARK LANE TO REEDY CREEK RD

DETAILS

PLAN INFORMATION

PROJECT NO. 2020110233

FILENAME 2020110233_D2.dwg

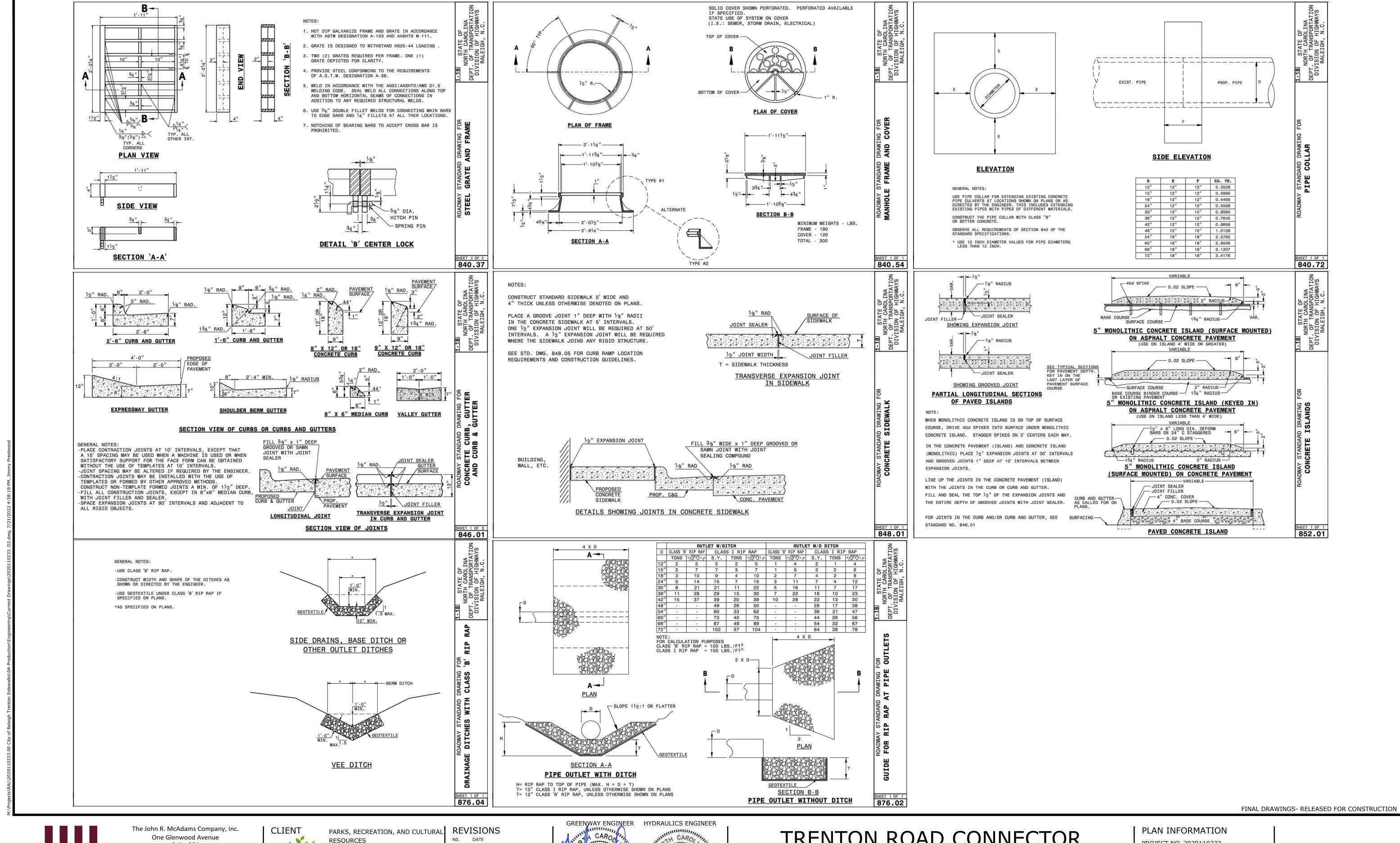
CHECKED BY GDB

DRAWN BY JP, ED

SCALE NTS

DATE

07/21/2022





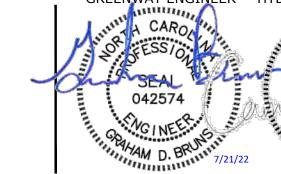
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SEAL

TRENTON ROAD CONNECTOR

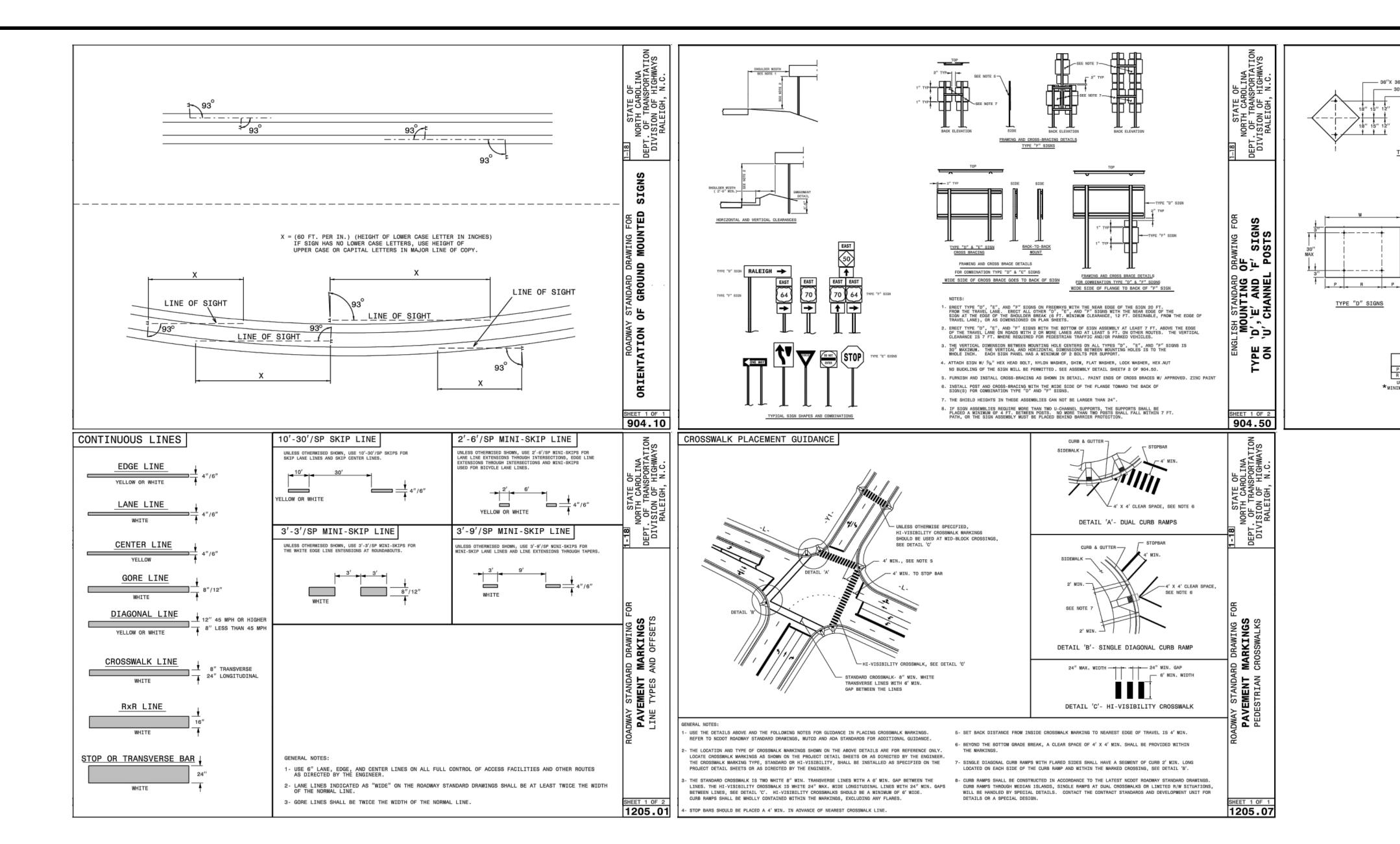
TRENTON PARK LANE TO REEDY CREEK RD

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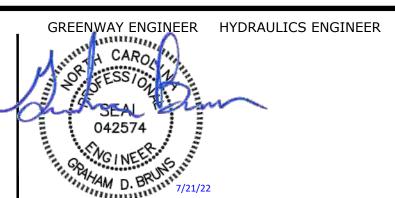
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TRENTON PARK LANE TO REEDY CREEK RD

DETAILS

PROJECT NO. 2020110233 FILENAME 2020110233_D2.dwg CHECKED BY GDB DRAWN BY JP, ED SCALE NTS

07/21/2022

DATE

2B-6

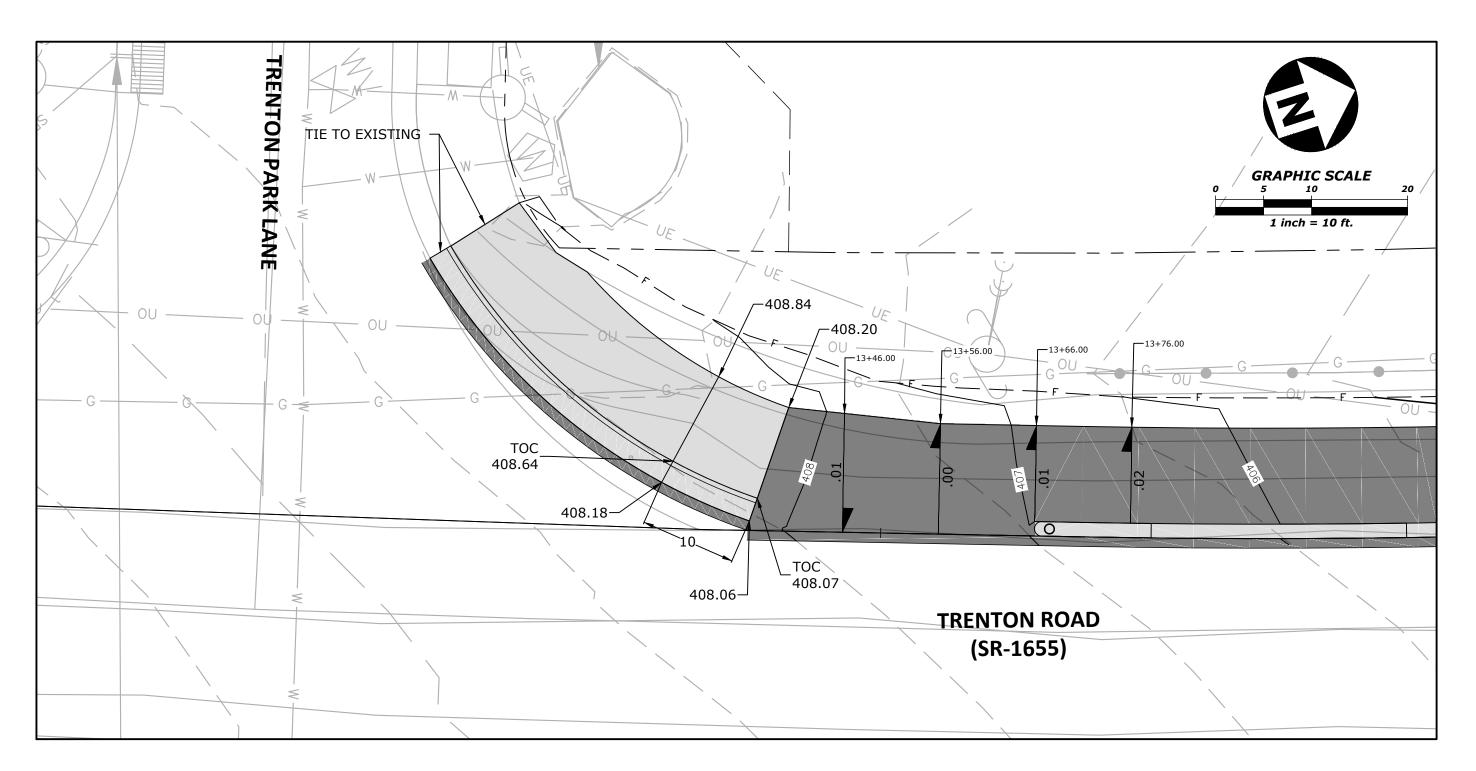
30"X 30" SIGN

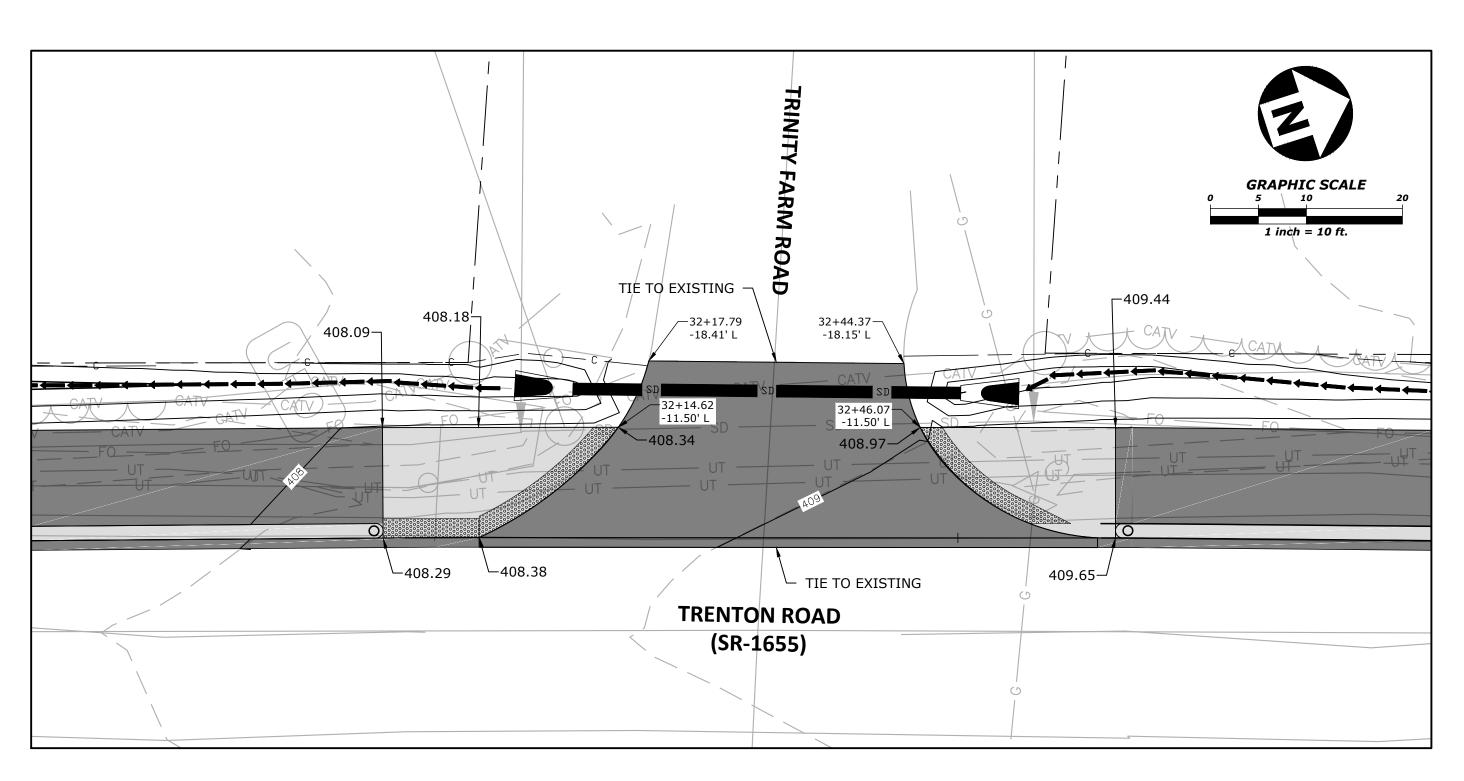
48"X 48" SIGN

PAVEMENT

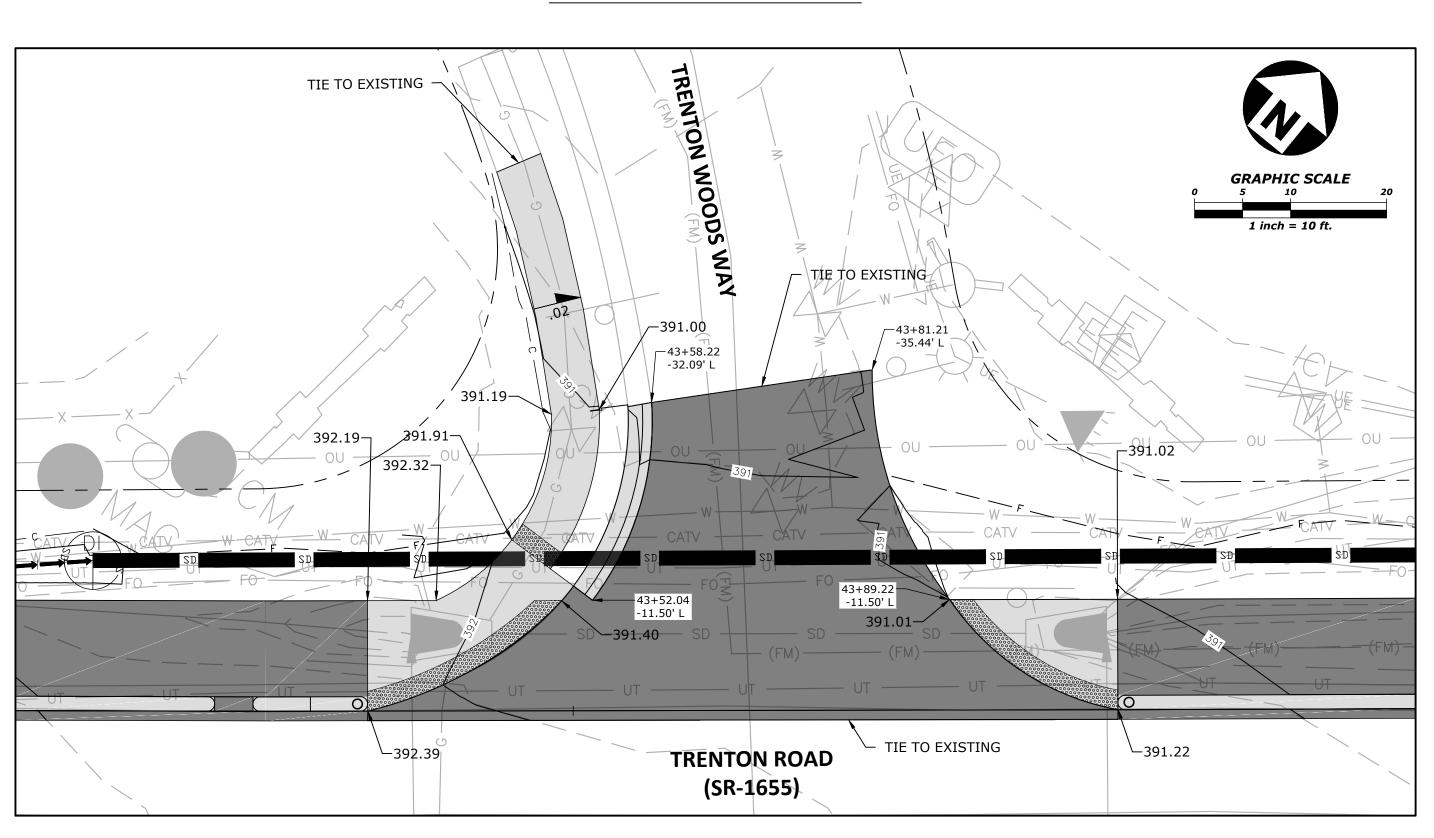
TYPE "E" AND "F" SIGNS

HOLE PUNCHING DETAIL

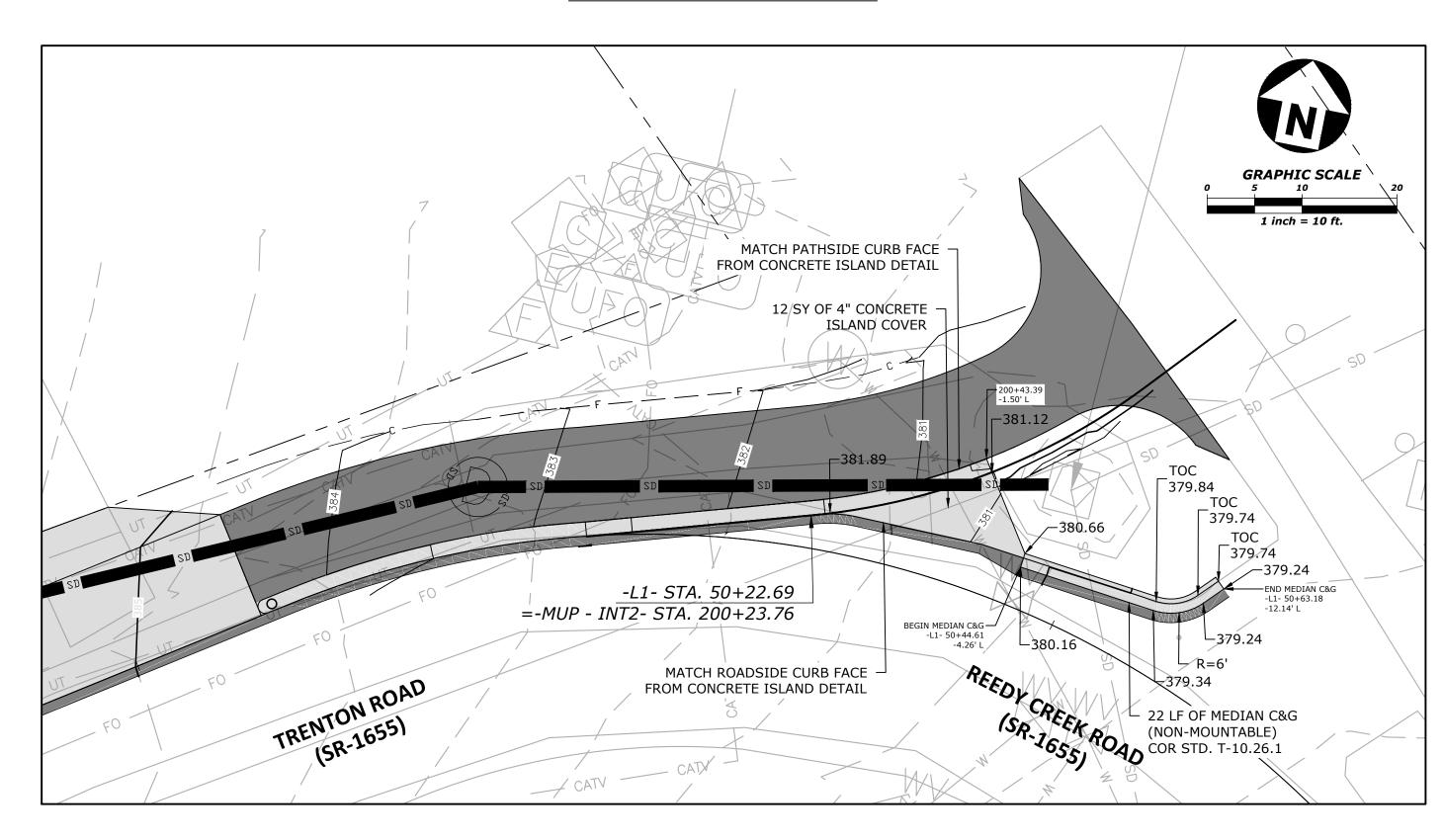




GRADING DETAIL #1



GRADING DETAIL #2



GRADING DETAIL #3

NOTES: TOC = TOP OF CURB

GRADING DETAIL #4

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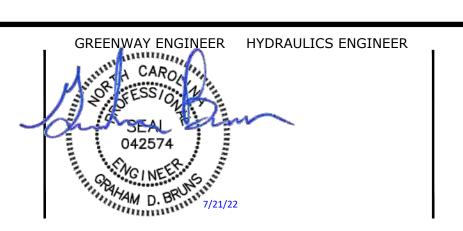
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PARKS, RECREATION, AND CULTURAL REVISIONS



TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

DETAILS

PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_D2.dwg CHECKED BY GDB DRAWN BY JP, ED

07/21/2022

DATE

| LOCATION | UNCLASSIFIED EXCAVATION | EMBANKMENT +20% | BORROW | WASTE |
|--------------------------------|-------------------------|-----------------|--------|-------|
| L1 STA. 13+35 TO 49+99 | 840 | 1200 | 360 | |
| MUP-INT1 STA. 100+00 TO 100+44 | 1 | 12 | 11 | |
| MUP-INT2 STA. 200+00 TO 200+64 | 1 | 16 | 15 | |
| | | | | |
| | | | | |
| | | | | |
| TOTAL | 842 | 1228 | 386 | 0 |

APPROXIMATE QUANTITIES ONLY. SUMMARY IS BASED ON CALCULATED OUTPUT FROM CAD, FIELD QUANTITIES MAY VARY.

EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

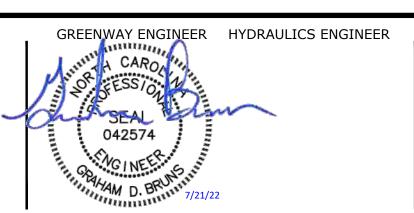
UNCLASSIFIED EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "COMPREHENSIVE GRADING".

FINAL DRAWINGS- RELEASED FOR CONSTRUCTION





RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798



TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

EARTHWORK SUMMARY

PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_D3.dwg

CHECKED BY GDB DRAWN BY JP, ED SCALE 07/21/2022 DATE

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

COMPUTED BY: JAP DATE: 05/27/2022 CHECKED BY: GDB DATE: 05/27/2022

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications for Roads and Structures, Section 300-5".

| STATION | (CL) | | CLUKE NO. | | Z | Z | | (RCP, | DRAIN
CSP, CA | | | PVC) | CLAS! | S III R.C | PIPE | | CLASS | IV R.C. PIPE | | | END\ | WALLS | QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') | | AND F | GRATES
IOOD
D 840.03 | | | | | | 0.24 | | | 2B-2)
2B-2) | | | | ABBREVIATIONS | |
|-----------------------|----------------------------|--------|-----------|---------------|------------------|------------------|----------------|---------|------------------|----------------|-----------------|----------|--|-----------|--|-----|---------------|--|---------------------|--|---------------------------|--|---|---------------------|---------|----------------------------|--|----------------------|---|------------------|--------------|---------------------|---|----------------|---|-----------------|--|------------------|--|-------------------------|
| SIZE | LOCATION (LT,RT, OR OFFSET | | SIKO | TOP ELEVATION | INVERT ELEVATIOI | INVERT ELEVATIOI | SLOPE CRITICAL | .2" 15' | " 18" | | | | 12" 15" 18" 2 | 4" 30" | 36" 42" 48" | 12" | 15" 18" 2 | 24" 30" 36" 42" 48 | 311 | | STD. 8
(UNLES:
OTHE | 838.01,
88.11 OR
838.80
S NOTED
RWISE)
YDS. | LIN. *FT. | - | TYPE OF | GRATE | . 840.15 | 0.14 OR 840.26 | | RATE STD. 840.22 | 40.24 | GRATES STD. 84 | GRATES STD. 84 | OR STD. 840.53 | SHEET | | C.Y. STD 840.72 | ET STD. 850.10 | C.B CATCH BASIN N.D.I. NARROW DROP INI D.I. DROP INLET G.D.I. GRATED DROP INL G.D.I. (N.S.) GRATED DROP IN (NARROW SLOT) J.B. JUNCTION BOX M.H. MANHOLE T.B.D.I. TRAFFIC BEARING INLET T.B.J.B. TRAFFIC BEARING JUNCTION BOX | NLET
INLET
G DROP |
| JILL | | | | , | | | | | 1 | | | | | | 30 72 70 | | 10 1 | 30 30 42 40 | - | | | 1 1 | 5.0' | STE _ | | SIGNIE | STD | . 840. | . 840 | GR/ | ≦ <u>≶</u> | ≥ ≥ | ≶ ∞ | 9.6 | | | "B" (| E | | |
| THICKNESS OR
GAUGE | | FROM | ОТ | | | | | | | DO NOT USE CSP | DO NOT USE CAAP | NO PO | | | | | | | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE
24" SIDE DRAIN PIPE | R.C.P. | C.S.P. | PER EACH (0' THRU
5.0' THRU 10.0'
10.0' AND ABOVE | C.B. STD. 840.01 OR | F | G | D.I STD. 840.14 OR 9 | G.D.I. TYPE "A" STD. | G.D.I. TYPE "B" STD.
G.D.I. TYPE "D" STD | | D.I. (N.S.) | G.D.I. (N.S.) FRAME | G.D.I. (N.S.) FRAINE
J.B. STD. 840.31 OR | H. STD. 840.51 | 15" FLARED END SECTOR 18" FLARED END SECTOR | 15" C.S. ELBOWS | NC CC | BERM DRAINAGE OU | REMARKS | S |
| -L1- 21+38 | LT 15.5 | 0501 | | | 393.38 | 392.85 | | | | | | | | | | | 36 | | | | | | | | | | | | | | | | | | | | | | | |
| -L1- 22+98 | LT 13.67 | 0503 | | 391.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.399 | | | |
| | | 0503 | 0504 | | 389.51 | 389.97 | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L1- 25+34 | LT 15.2 | 0601 | | | 396.20 | 397.26 | | | | | | | | | | | 88 | | | | | | | | | | | | | | | | | Ш | | | | | | |
| -L1- 28+50 | LT 14.2 | 0603 | | | 400.80 | 401.20 | | | | | | | | | | | 36 | | | | | | | | | | | | | | | | | | | | | | | |
| -L1- 30+21 | LT 16 | 0605 | | | 402.30 | 402.80 | | | | | | | | | | | 36 | | | | | | | | | | | | | | | | | | | | | | | |
| -L1-32+10 | LT 15.5 | 0607 | | 406.72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| | | 0607 | 0608 | | 405.47 | 405.97 | | | | | | | | | | | 40 | | | | | | | | | | | | | | | | | | | | | | | |
| -L1- 32+50 | LT 15 | | 0608 | 407.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| -L1- 35+90 | LT 15 | 0701 | | | 403.19 | 401.25 | | | | | | | | | | | 84 | | | | | | | | | | | | | | | | | | | | | | | |
| -L1- 43+00 | LT 15.6 | 0801 | | 391.12 | | | | | | | | | | | | | | | | | | | 1 | | | | 1 1 | L T | | | | | | | | | | | | |
| | | 0801 | 0802 | | 388.62 | 387.60 | | | | | | | | | | | 200 | | | | | | | | | | | | | | | | | | | | | | | |
| -L1- 45+00 | LT 16.1 | | 0802 | 389.27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| | LT 9.4 | 0803 | | 389.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 一十 | \top | | 0.399 | | | |
| | | | 0804 | | 387.10 | 387.37 | | | \top | | | 1 | 8 | | | | | | \top | | | | | | | | | $\neg \neg$ | | | $\neg \neg$ | | | \Box | \top | \top | | \top | | |
| -L1- 47+97 | LT 14.5 | | | | | 387.50 | | | | | | | | | | | 36 | | | | | | | | | | | | | | | | | \Box | + | \neg | | +- | | |
| | LT 13.5 | | | 385.17 | | | + + | | + + | \dashv | + + | ++ | | | | | | | + + | | | † † | 1 | + + | 1 1 | | 1 1 | | | | + | | | \Box | +++ | | | + | | |
| 5.2/ | | | 0902 | | | 379.34 | + + | | + + | + | + + | ++ | 64 | - | | | | | + + | | | + + | - | + + - | + + | | | +++ | | | + | | | 一十 | ++ | | | + | | |
| -L1- 49+89 | LT 6.5 | 1 0301 | | | 502.32 | 373.34 | + | | + + | + | + + | ++ | | \dashv | + + + - | | | | + + | _ | | + + | 1 | + + | + + | | + + | + | _ | | + | | 1 | 1 | +++ | | | + | | |
| -L1- 43+03 | 1 0.3 | 0902 | 0902 | 303.34 | 270 24 | 375.40 | + | | + | + | + + | ++ | 60 | _ | + + - | | | | + + | | | + + | - | + + | + 1 | | + + | + | | + | + | _ | + | + | ++ | | + | + | | |
| | | 1 0302 | 1 0303 | | 3/3.34 | J 3/3.4U | 1 1 | - 1 | | - 1 | 1 I | 1 1 | 1 00 1 | - 1 | 1 1 1 1 | | I I | | 1 1 | | 1 | 1 1 | 1 1 | 1 1 | 1 1 | I | 1 1 | 1 1 | - 1 | 1 I | | - 1 | 1 1 | 4 I | 1 1 | l ' | | 1 1 | I | |
| -L1- 50+46 | LT 13.7 | | 0903 | EXIST | | | | | + + | | + | \dashv | | | | | | | | | | | | | | | | \neg | | | + + | | | \leftarrow | + | - | + | + | EXIST. DI | |

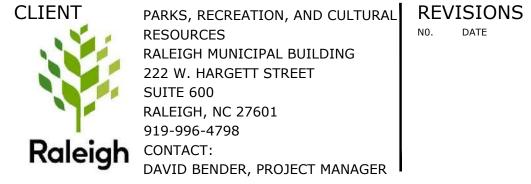
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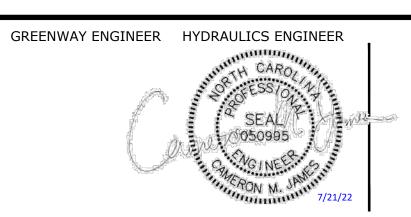


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phone 919. 823. 4300 fax 919. 361. 2269 license number: C-0293, C-187

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TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

DRAINAGE SUMMARY

PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_D3.dwg CHECKED BY GDB

DRAWN BY JP, ED 07/21/2022

DATE

3D-1

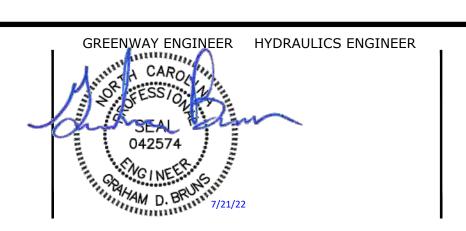
| STATION | PARCEL ID | PARCEL OWNER | ADJACENT PROPERTY OWNER (PIN) | TREE SIZE | TREE TYPE |
|---------|-----------|--------------|-------------------------------|-----------|-----------|
| 37+32 | N/A | EXISTING R/W | KRAEMER (775-76-5208) | 15" | OAK |
| 38+84 | N/A | EXISTING R/W | KRAEMER (775-76-5208) | 18" | PINE |
| 38+89 | N/A | EXISTING R/W | KRAEMER (775-76-5208) | 6'' | SWEET GUM |
| 39+02 | N/A | EXISTING R/W | JANAS (775-76-6347) | 2 X 15" | PINE (2) |
| 39+12 | N/A | EXISTING R/W | JANAS (775-76-6347) | 15" | PINE |
| 39+12 | N/A | EXISTING R/W | JANAS (775-76-6347) | 8'' | CEDAR |
| 39+20 | N/A | EXISTING R/W | JANAS (775-76-6347) | 15" | PINE |
| 39+30 | N/A | EXISTING R/W | JANAS (775-76-6347) | 10" | CEDAR |
| 41+80 | N/A | EXISTING R/W | PORTER/BHADA (775-76-8543) | 8" | OAK |
| 42+14 | N/A | EXISTING R/W | PORTER/BHADA (775-76-8543) | 6'' | OAK |

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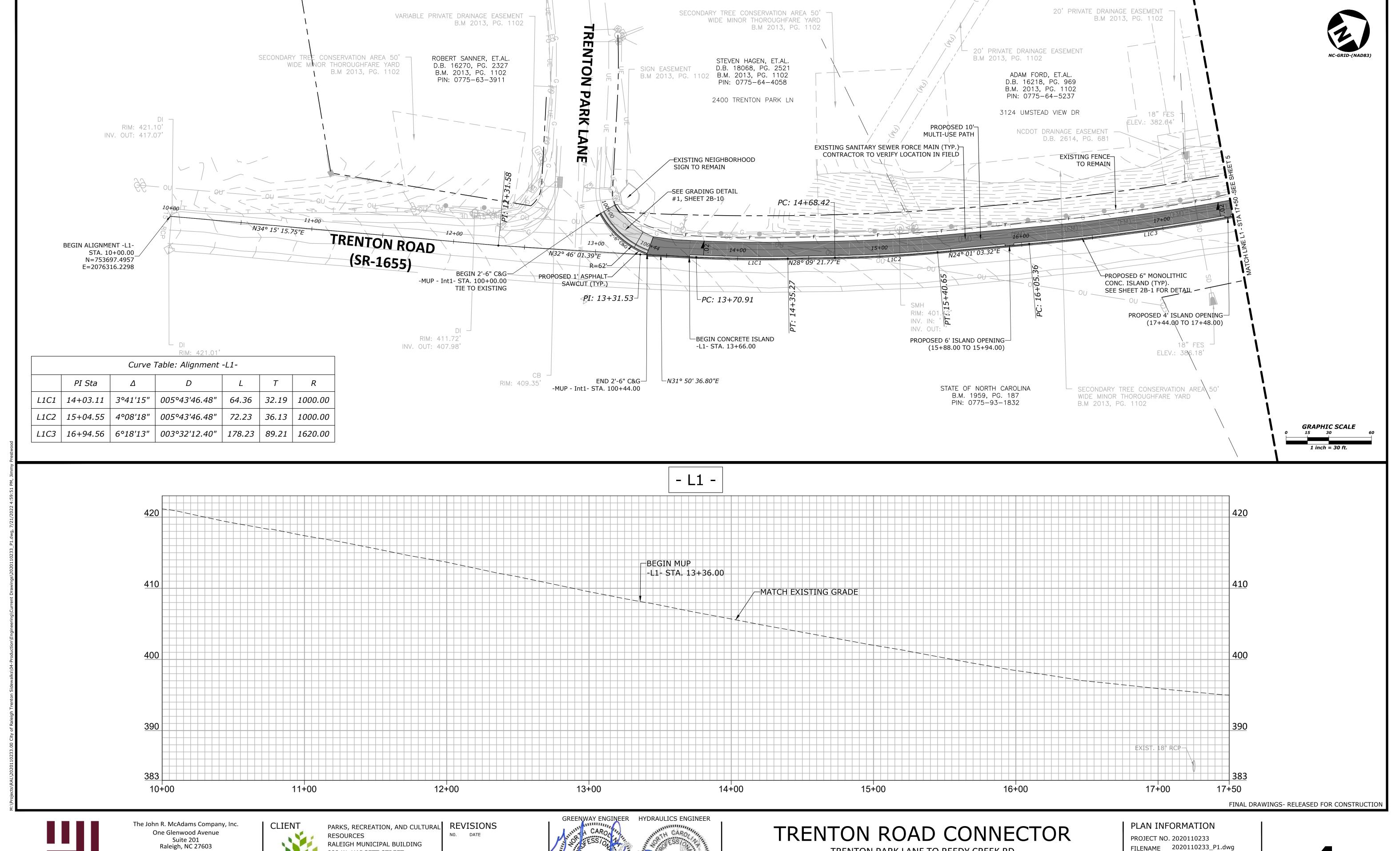
CLIENT PARKS, RECREATION, AND CULTURAL REVISIONS RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798 Raleigh CONTACT:
DAVID BENDER, PROJECT MANAGER



TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

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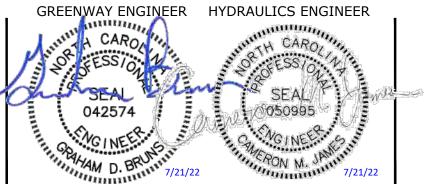
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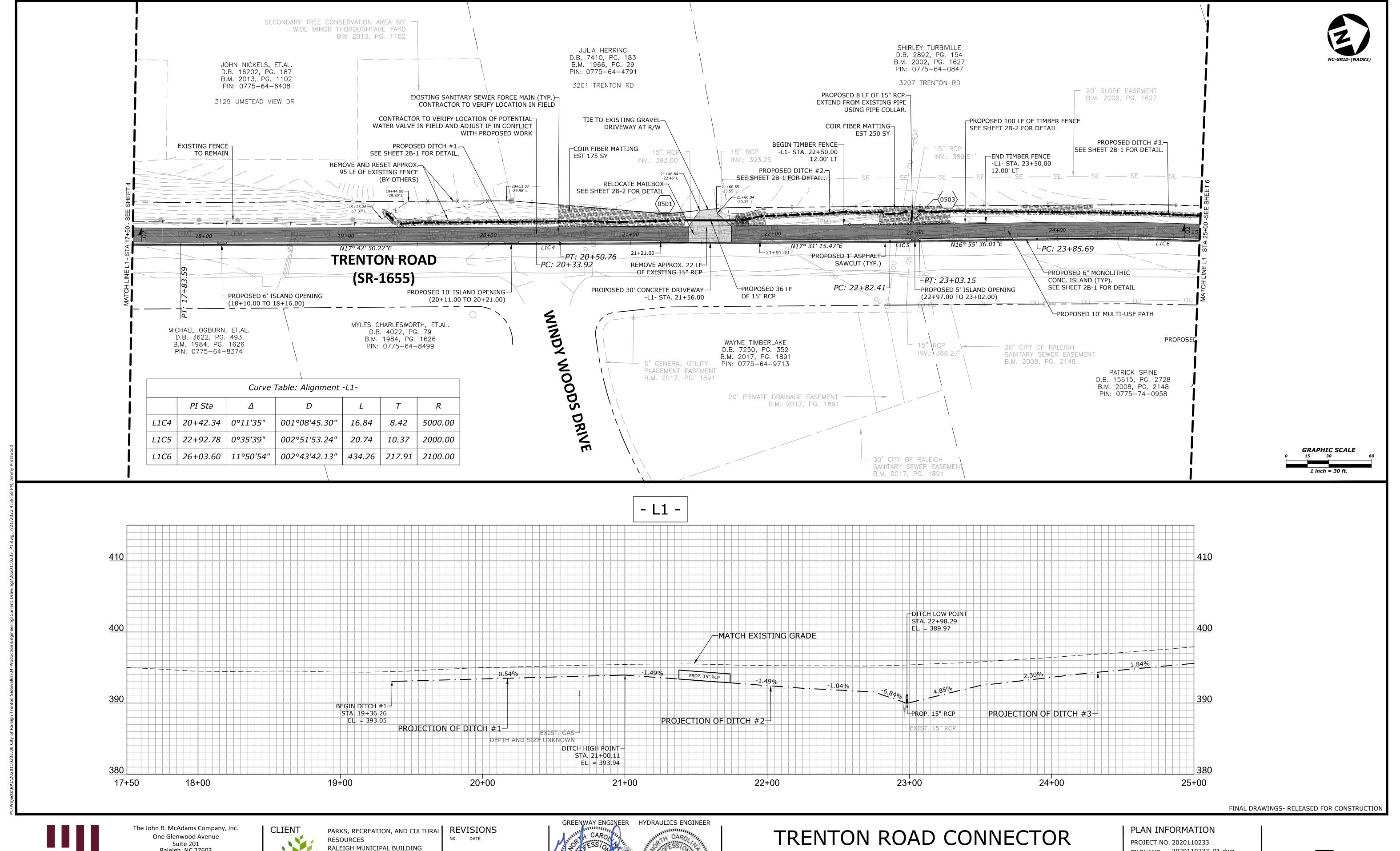




TRENTON PARK LANE TO REEDY CREEK RD

PLAN & PROFILE

FILENAME 2020110233_P1.dwg CHECKED BY GDB 1" = 30' / 1"=6' 07/21/2022 DATE





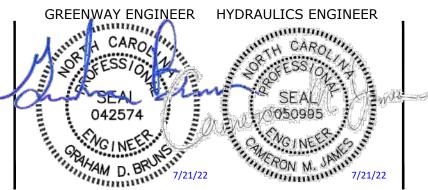
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222 W. HARGETT STREET RALEIGH, NC 27601

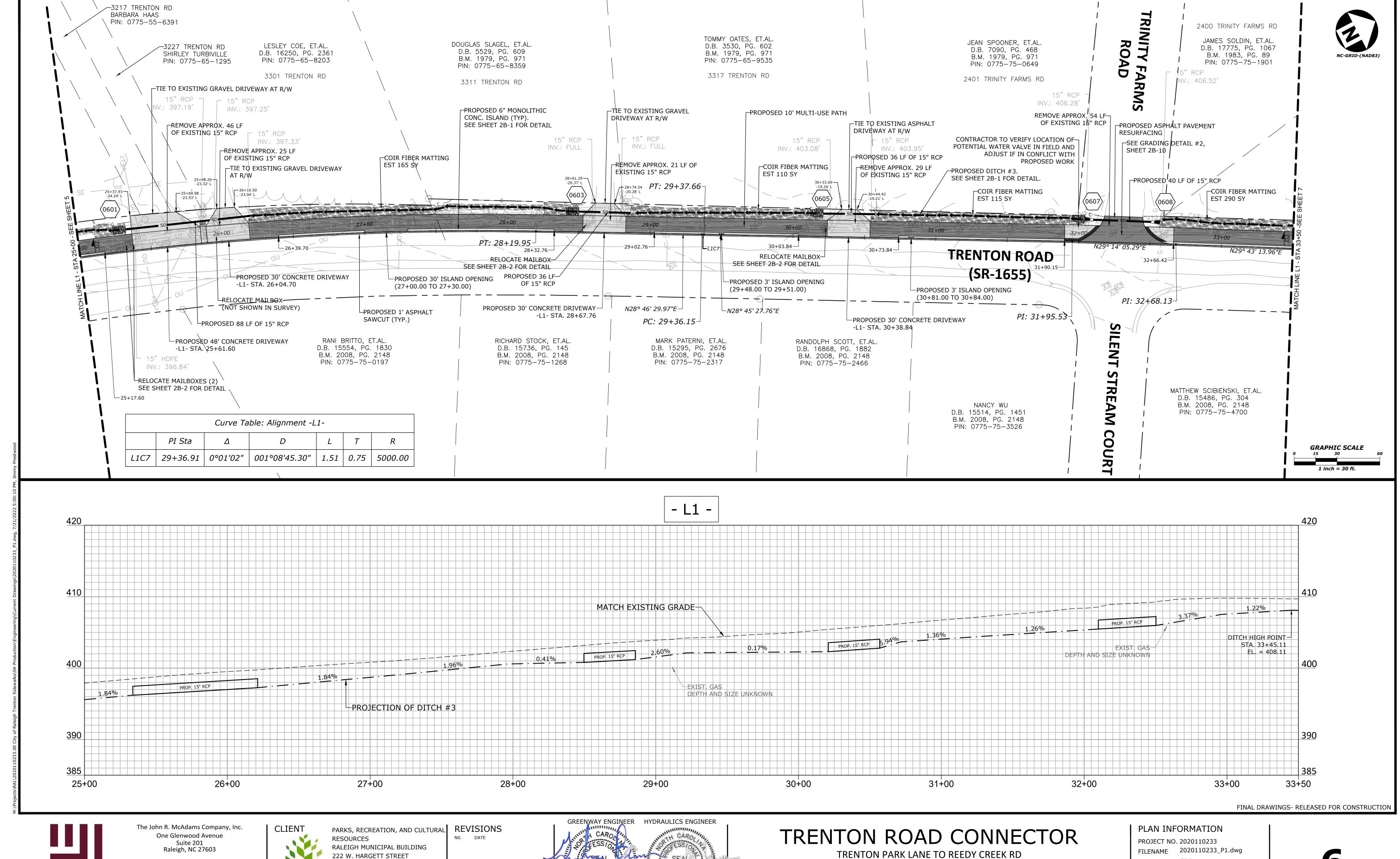


TRENTON PARK LANE TO REEDY CREEK RD

PLAN & PROFILE

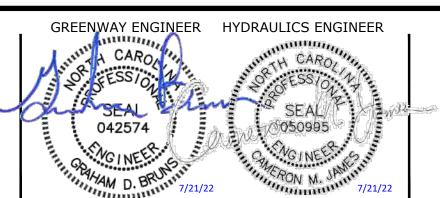
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DATE



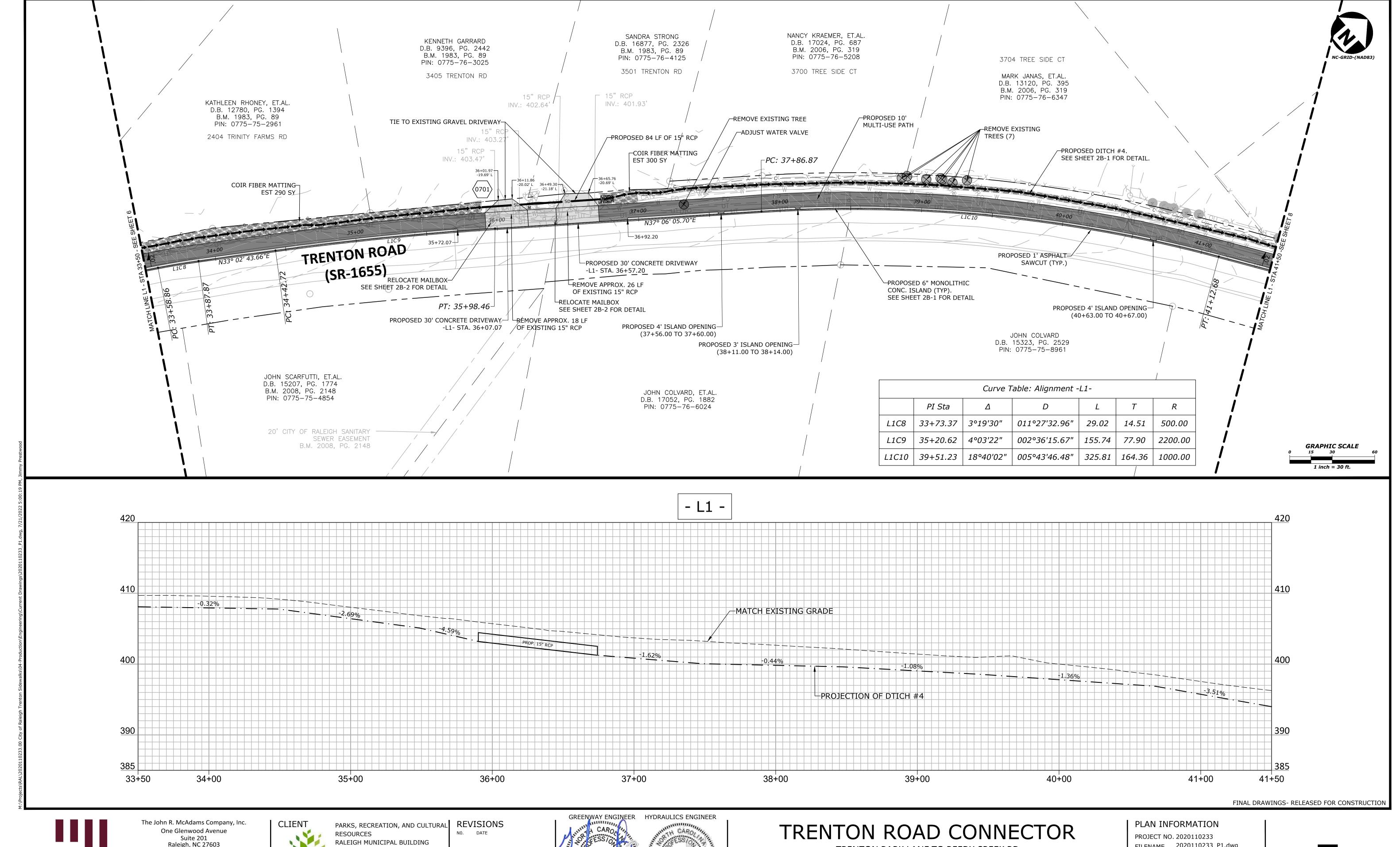


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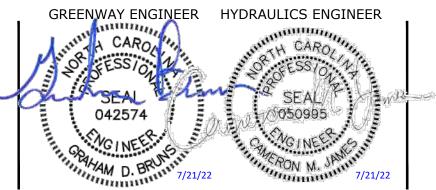




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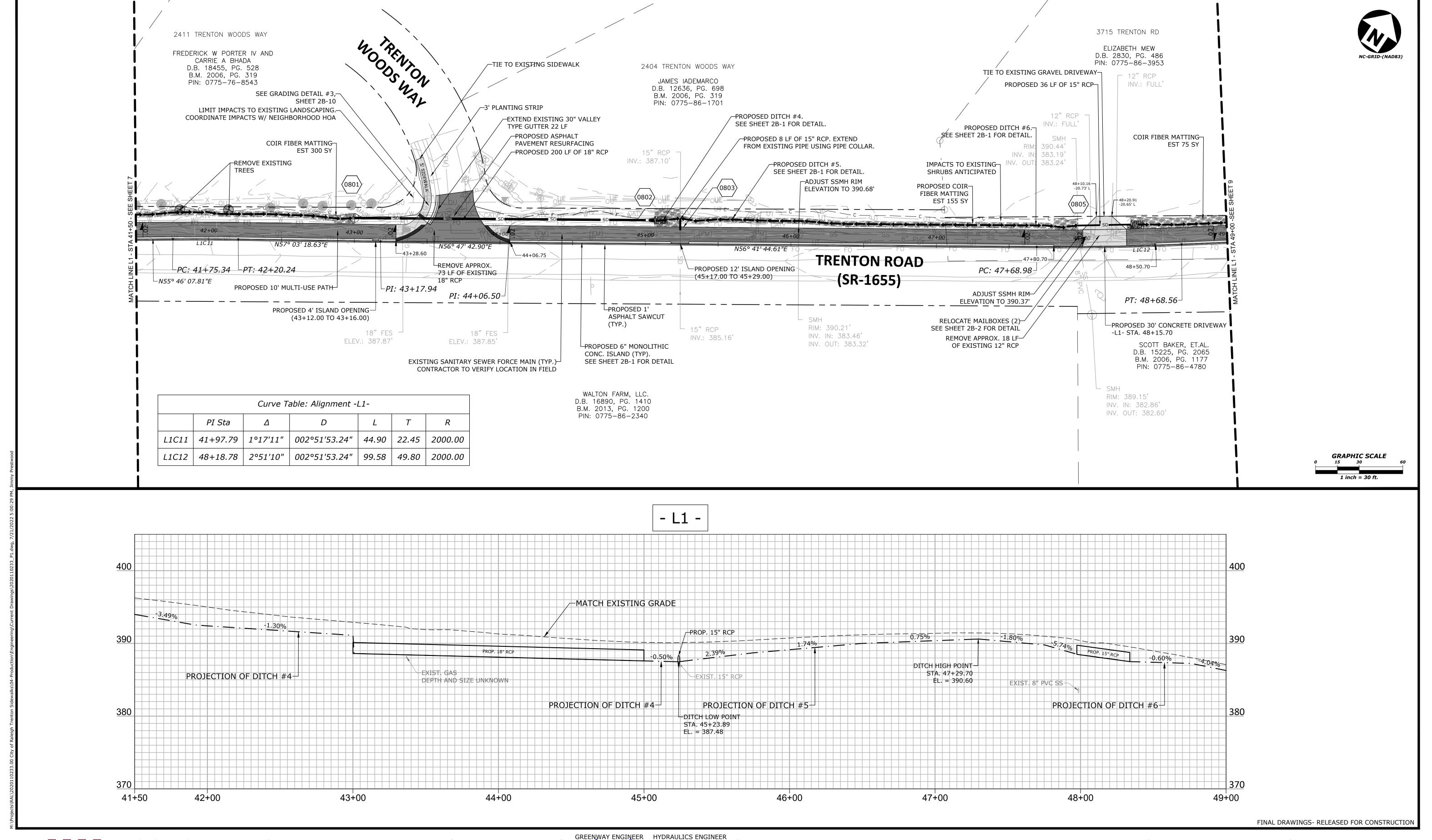




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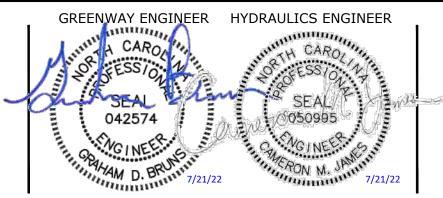




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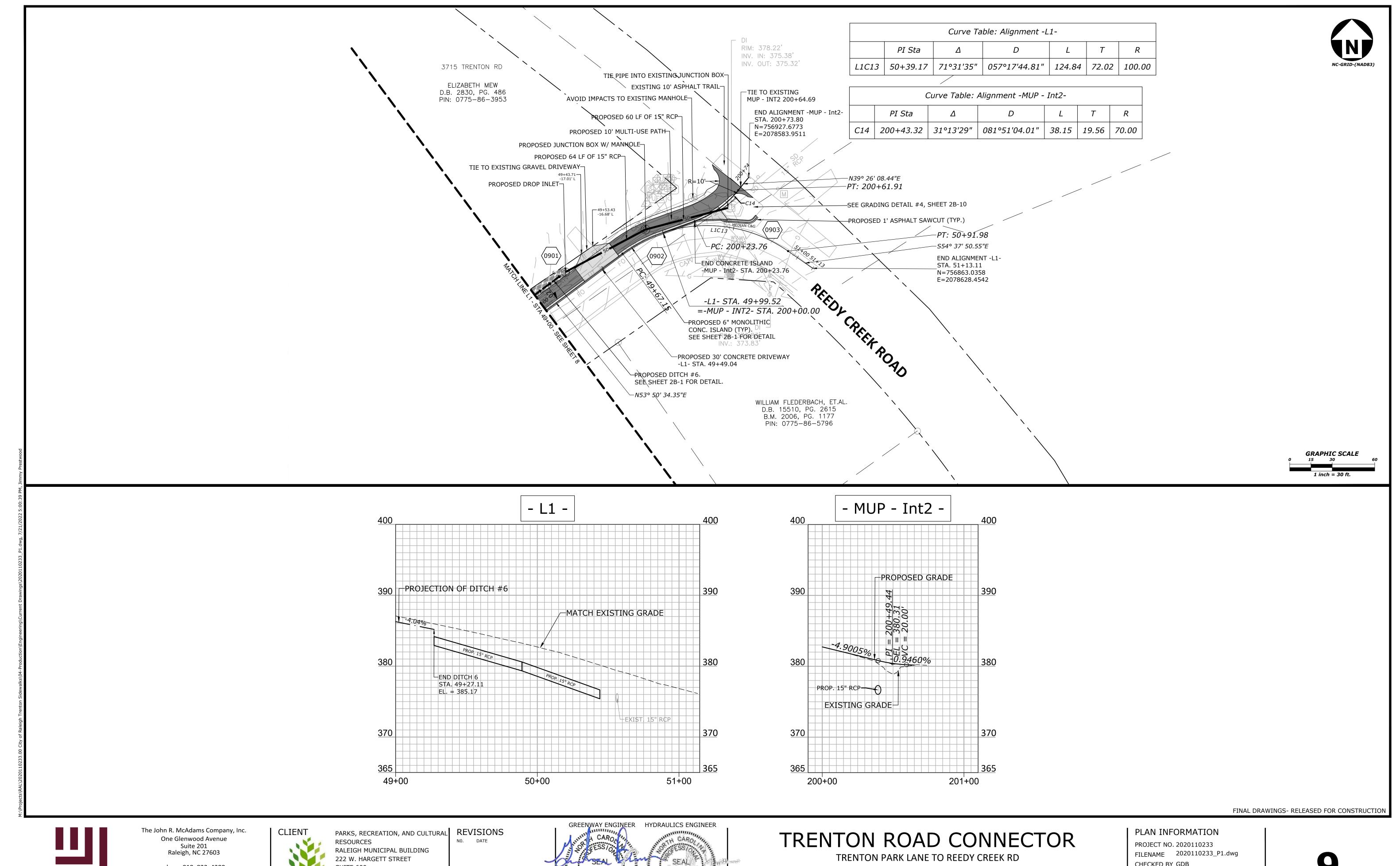
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TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

PLAN & PROFILE

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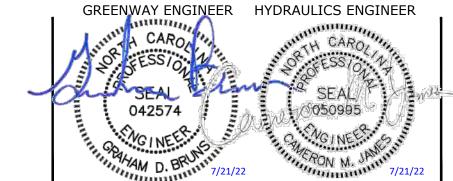


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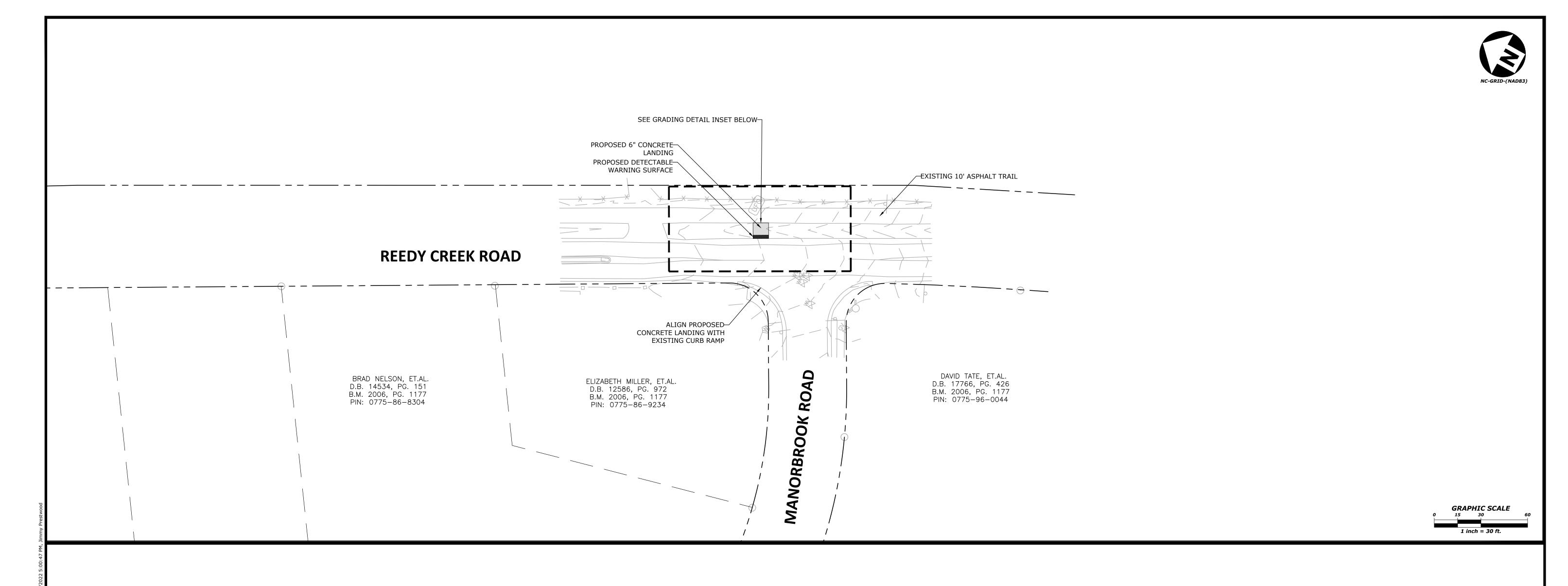


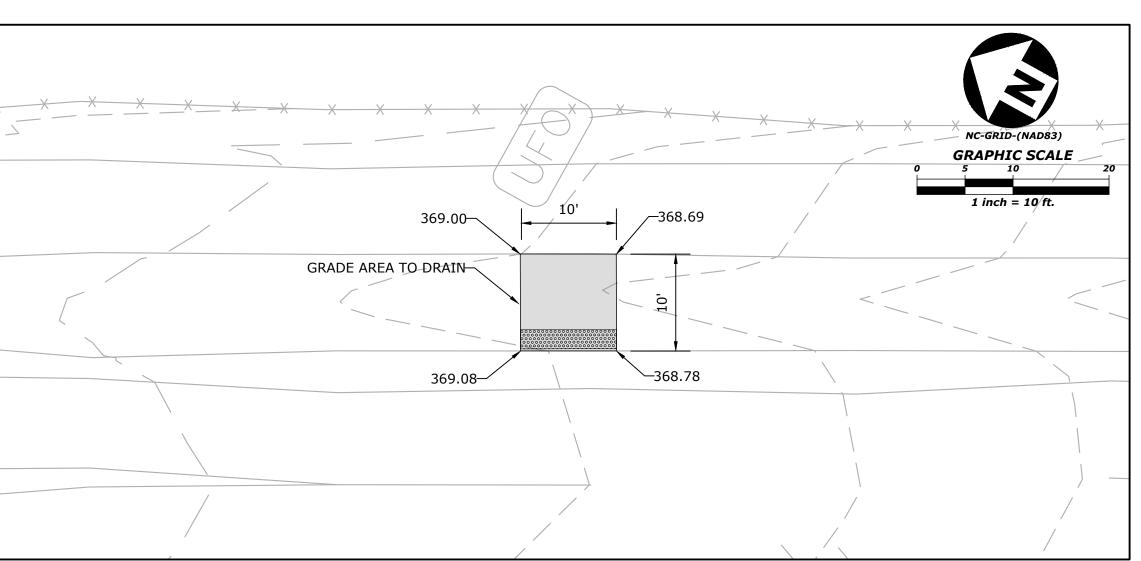
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DATE

07/21/2022





GRADING DETAIL

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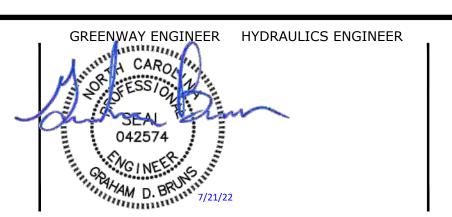
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DAVID BENDER, PROJECT MANAGER



TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

PLAN & PROFILE

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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 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

TIME RESTRICTIONS

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

DAY AND TIME RESTRICTIONS ROAD NAME

TRENTON ROAD MONDAY-FRIDAY SATURDAY SUNDAY NO WORK REEDY CREEK ROAD 6:00 AM - 9:00 AM 4:00 PM - 12:00 AM

B) SEE INTERMEDIATE CONTRACT TIME FOR TIME RESTRICTIONS CONCERNING HOLIDAYS, HOLIDAY WEEKENDS, SPECIAL EVENTS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STD. DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- E) 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 STD. DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- F) 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 STD. DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- G) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVEL WAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR
- H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON TRENTON ROAD.
- I) MAINTAIN TWO WAY TRAVEL ON TRENTON ROAD AT ALL TIMES.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) 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

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

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

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

K) 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) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- L) CONTRACTOR SHALL CONTACT THE ENGINEER, THE CITY OF RALEIGH, AND NCDOT TRAFFIC OPERATIONS GROUP 21 DAYS PRIOR TO WORK COMMENCING.
- M) THE DYNAMIC MESSAGE BOARD SHALL BE IN PLACE TWO WEEKS PRIOR TO COMMENCING WORK TO NOTIFY THE TRAVELING PUBLIC.

SIGNING

- N) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL AND NO MORE THAN 3 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.
- Q) INSTALL "SIDEWALK CLOSED" SIGNS (R9-9) WHERE PROPOSED WORK ABUTS EXISTING SIDEWALKS TO DISCOURAGE USE OF CONSTRUCTED FACILITY DURING CONSTRUCTION.

TRAFFIC CONTROL DEVICES

- R) 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 STD. SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMŚ) FOR ADDITIONAL REQUIREMENTS.
- S) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.
- T) MAINTAIN NO LESS THAN 1 FT OFFSET FROM SIDEWALK TO THE PORTABLE WATER-FILLED BARRIER WHERE A MINIMUM OF 2 FT IS NOT OBTAINABLE.

MARKER

NONE

PAVEMENT MARKINGS AND MARKERS

U) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS AS FOLLOWS:

ROAD NAME MARKING TRENTON ROAD PAINT (IF NECESSARY) REEDY CREEK ROAD

- V) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- W) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAYS OPERATIONS.
- X) TRACE THE PROPOSED CONCRETE ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

- Y) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- Z) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
- AA) 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.)

PHASING NOTES

- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS AND SIDE STREETS AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WITH LOCAL BUSINESSES 48 HOURS PRIOR TO COMMENCING ANY WORK TO PROVIDE NOTIFICATION
- THE CONTRACTOR SHALL USE FLAGGER CONTROL DURING ANY PHASE IF NECESSARY ACCORDING TO RSD 1101.02.
- THE CONTRACTOR MUST RETURN TRAFFIC TO EXISTING PATTERN AT THE END OF EACH WORK DAY UNLESS OTHERWISE NOTED IN THE PHASING BELOW OR AS DIRECTED BY THE ENGINEER.

WORKING IN A CONTINUOUS MANNER, COMPLETE ALL CONSTRUCTION WITHIN 150 DAYS. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - 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:

DIVISION 11 - WORK ZONE TRAFFIC CONTROL

Temporary Lane Closures (2 Lane, 2-Way Roadway - 1 Lane Closed)

Temporary Shoulder Closures Traffic Control Design Tables

Drum Cones

Flagging Devices

Skinny Drum

ADDITIONAL NCDOT STANDARDS NOT ON THE LIST ABOVE MAY BE REQUIRED AS PER PLAN DETAILS AND SPECIFICATIONS.

Traffic Control and Pedestrian Plan (TCPED) Notes:

- Prior to any work that impacts the right-of-way, closing or detouring of any street, lane, or sidewalk, the contractor must apply for a permit with Right-of-Way Services. Please direct any questions to rightofwayservices@raleighnc.gov.
- The street, lane, sidewalk, closure permit is required for any closure on city streets and
- all NCDOT streets within Raleigh's Jurisdiction.
- A permit request with a TCPED Plan shall be submitted to Right-of-Way Services through the City of Raleigh Permit and Development Portal.
- Prior to the start of work, the Client shall schedule a Pre-Construction meeting with the Engineering Inspections Coordinator to review the specific components of the approved plan, and ensure all permits are issued.
- All TCPED Plans shall comply with all Local, State, and Federal requirements and standards, including but not limited to:
 - Manual on Uniform Traffic Control (MUTCD);
 - Public Rights-of-Way Accessibility Guidelines (PROWAG);
 - American Disability Act (ADA) requirements; Raleigh Street Design Manual (RSDM).
- All public sidewalks must be accessible to pedestrians who are visually impaired and/or people with mobility concerns. Existing and alternative pedestrian routes during construction shall be required to be compliant with the Public Rights of Way Accessibility Guidelines (PROWAG), the ADA Standards for Accessible Design and the Manual on Uniform Traffic Control Devices (MUTCD).
- All permits must be available and visible on site during the operation.

FINAL DRAWINGS- RELEASED FOR CONSTRUCTION



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CLIENT

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REVISIONS NO. DATE

GREENWAY ENGINEER HYDRAULICS ENGINEER 042574

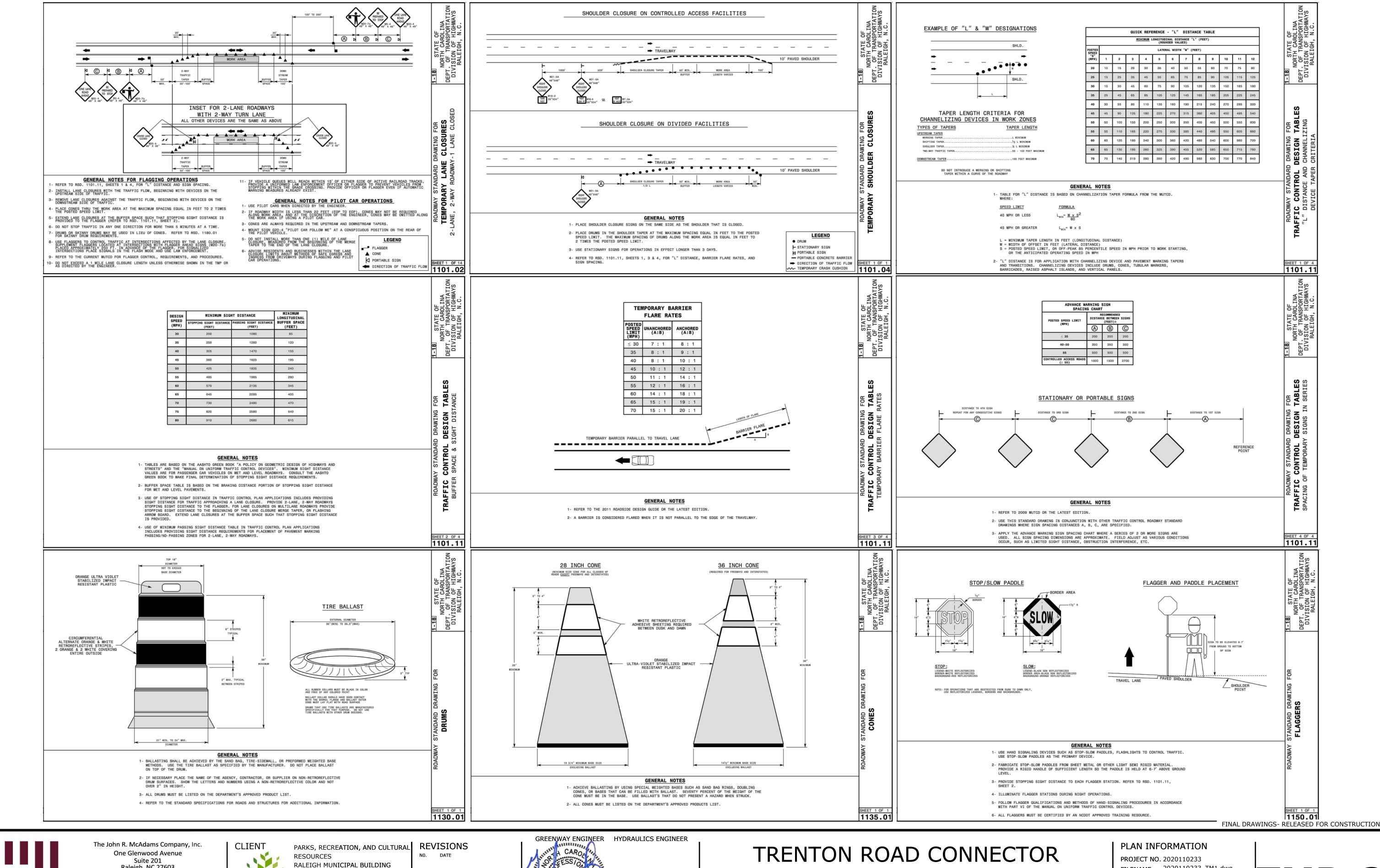
TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

TRANSPORTATION MANAGEMENT PLAN

PLAN INFORMATION PROJECT NO. 2020110233

FILENAME 2020110233_TM1.dwg CHECKED BY GDB DRAWN BY JP, ED

SCALE NTS DATE 07/21/2022 TMP-1





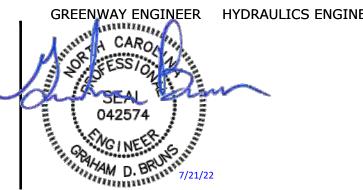
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TRENTON PARK LANE TO REEDY CREEK RD

TRANSPORTATION MANAGEMENT PLAN

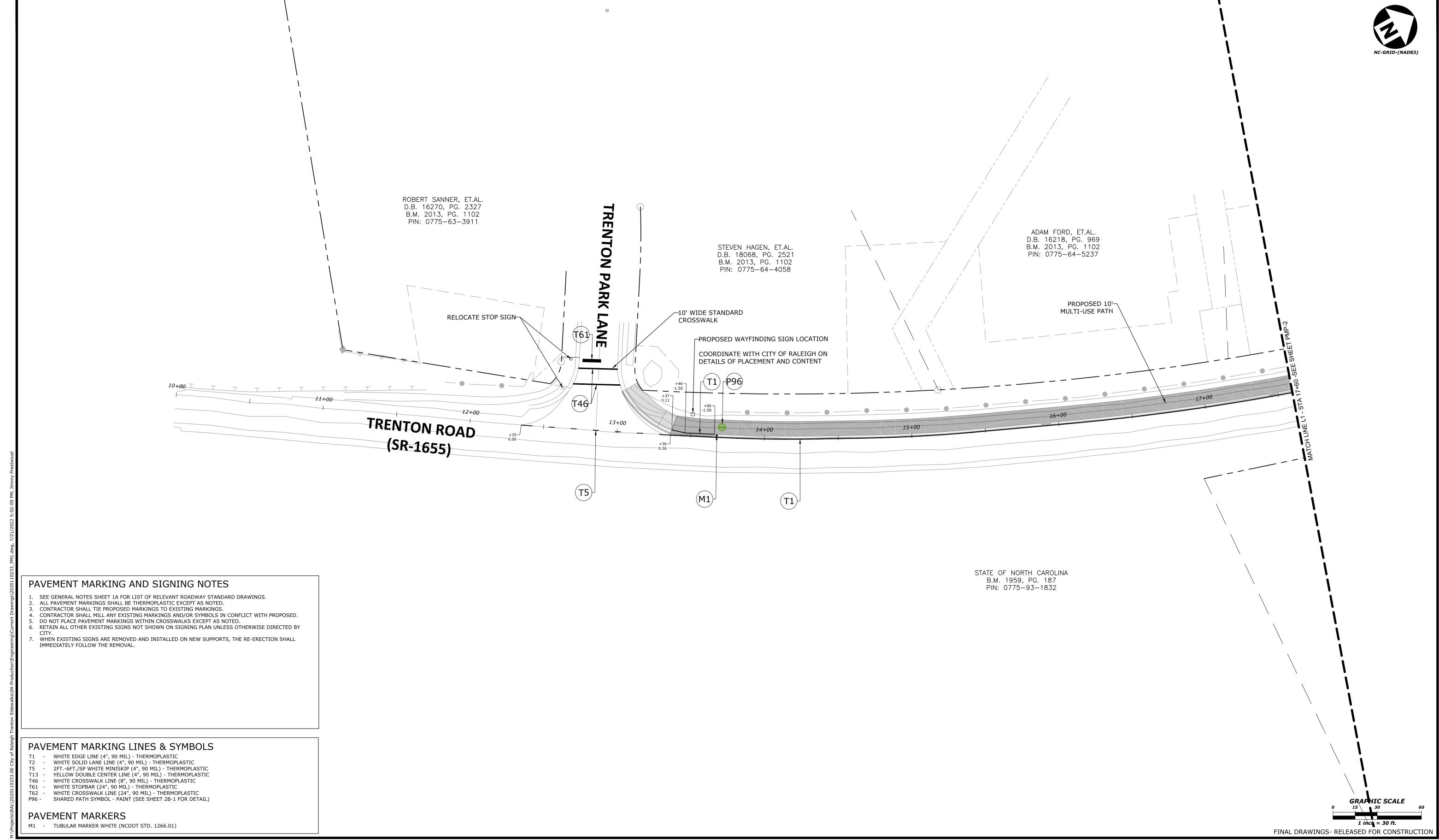
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DATE

TMP-2





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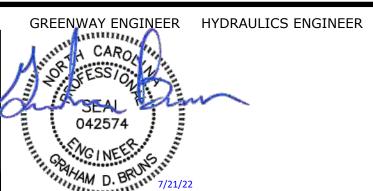
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RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798 DAVID BENDER, PROJECT MANAGER

PARKS, RECREATION, AND CULTURAL REVISIONS NO. DATE



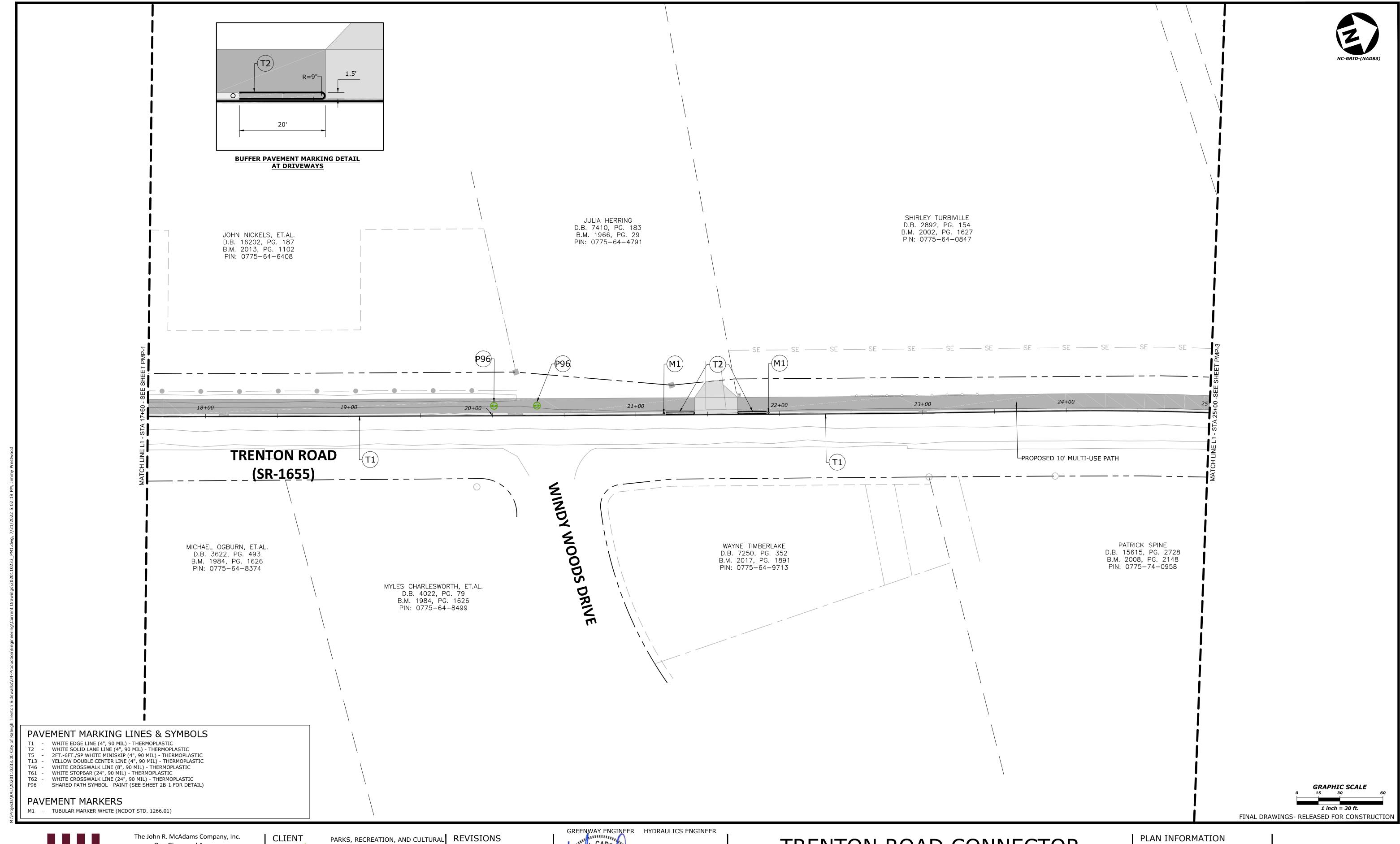
TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

PAVEMENT MARKING & SIGNAGE PLANS

PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_PM1.dwg CHECKED BY GDB

DRAWN BY JP, ED 07/21/2022 DATE

PMP-1





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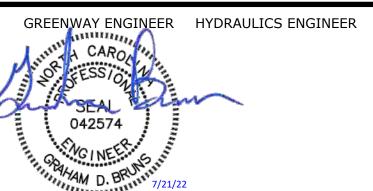
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222 W. HARGETT STREET
SUITE 600
RALEIGH, NC 27601
919-996-4798
CONTACT:
DAVID BENDER, PROJECT MANAGER

REVISIONS NO. DATE



TRENTON ROAD CONNECTOR
TRENTON PARK LANE TO REEDY CREEK RD

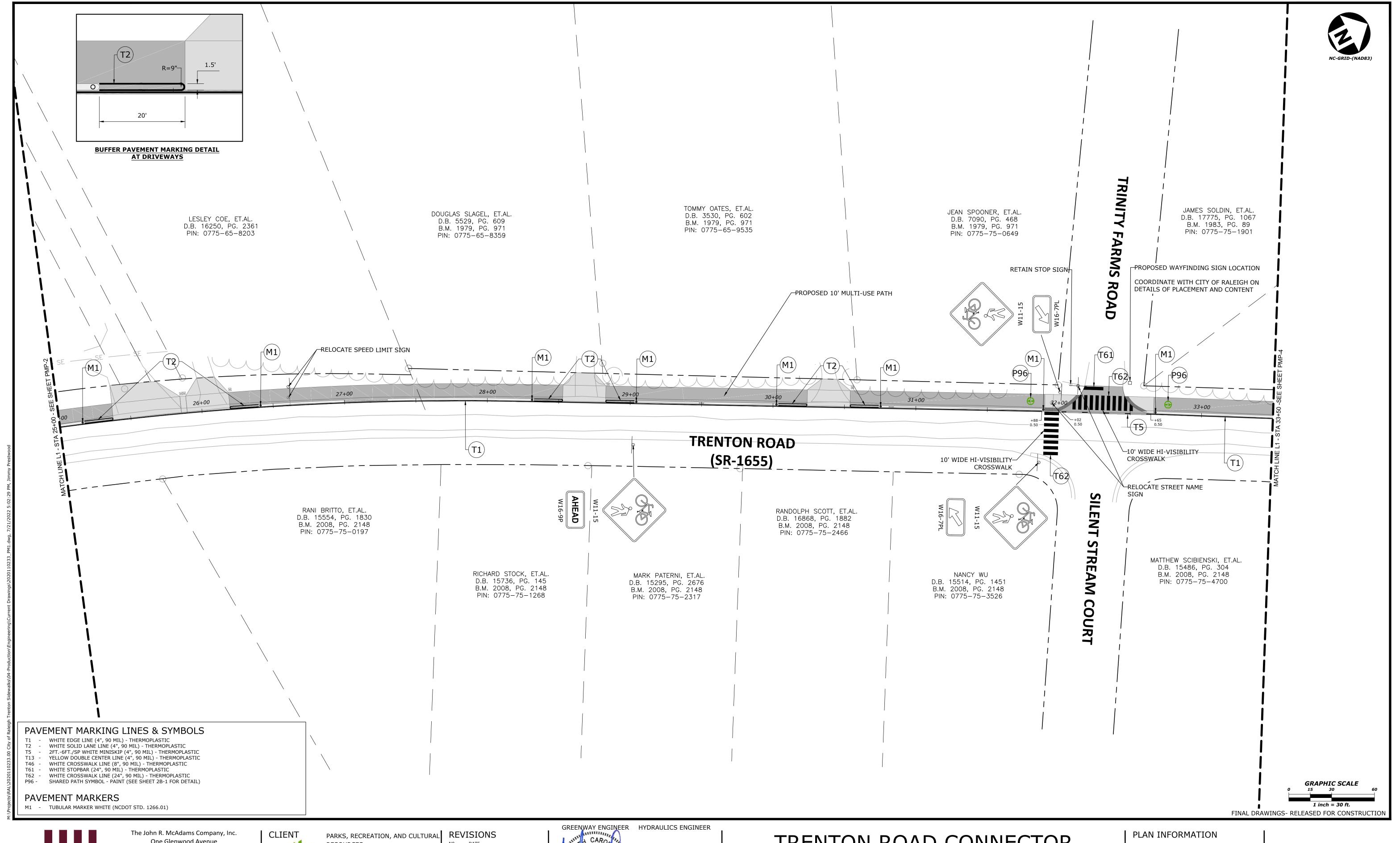
PAVEMENT MARKING & SIGNAGE PLANS

PROJECT NO. 2020110233
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DRAWN BY JP, ED

SCALE 1" = 30'
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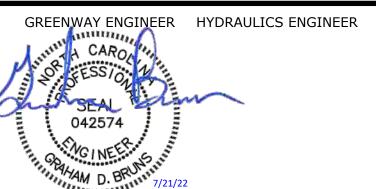
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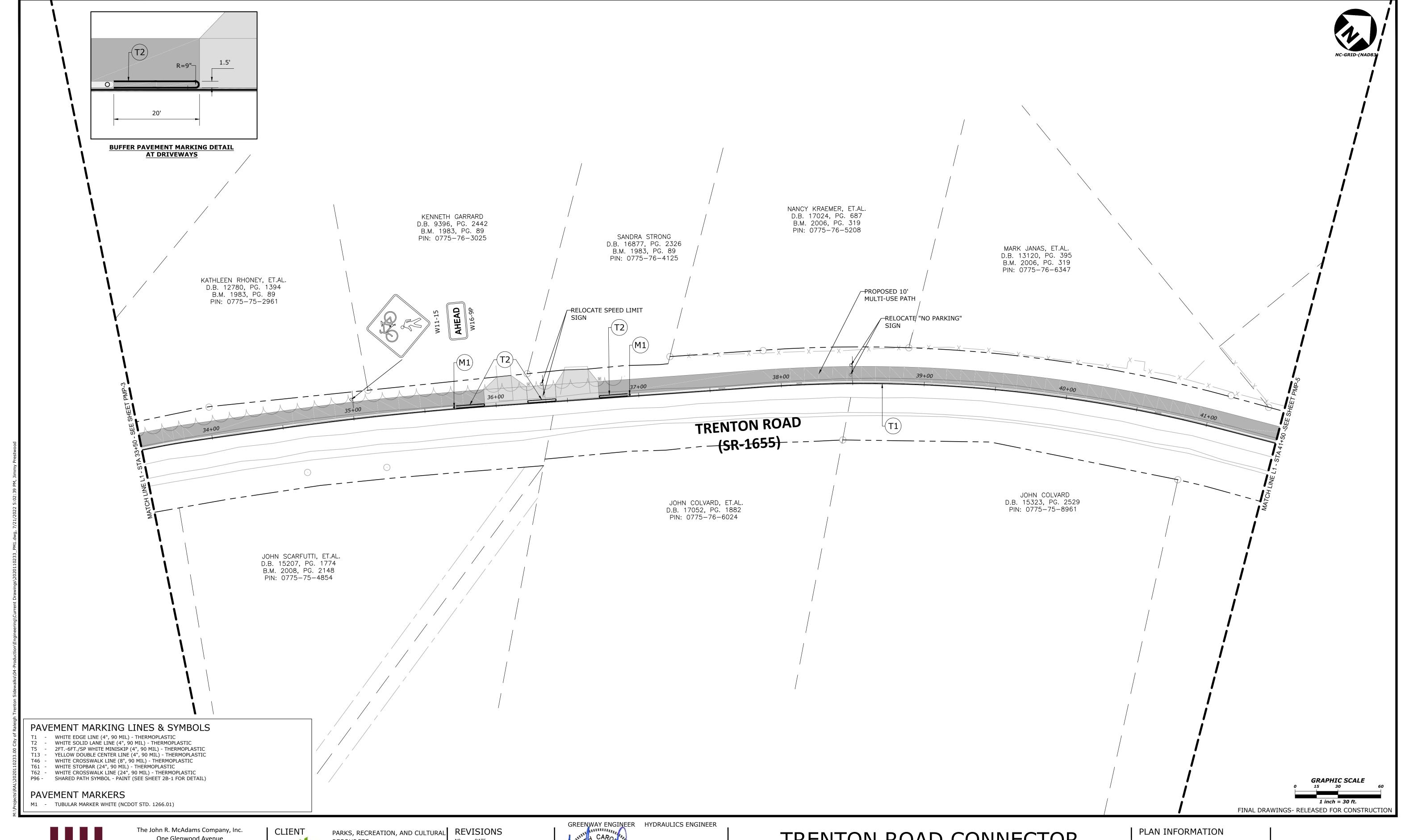
PROJECT NO. 2020110233

07/21/2022

FILENAME 2020110233_PM1.dwg CHECKED BY GDB DRAWN BY JP, ED

DATE

PMP-3





One Glenwood Avenue Raleigh, NC 27603

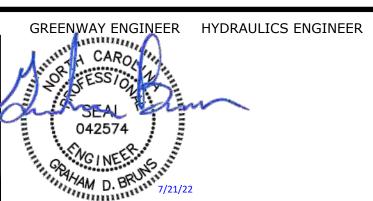
phone 919. 823. 4300 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798

DAVID BENDER, PROJECT MANAGER

NO. DATE



TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

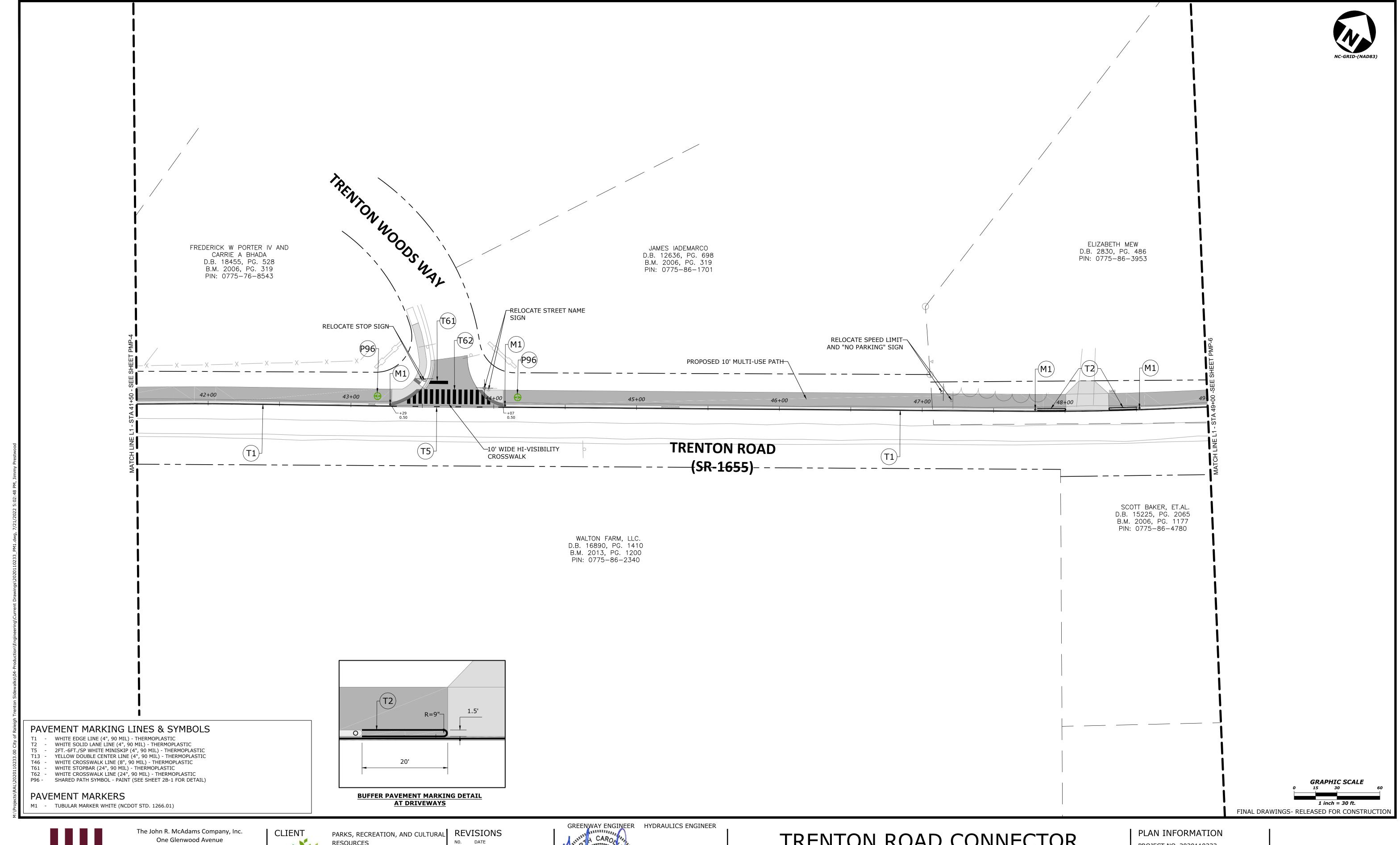
PAVEMENT MARKING & SIGNAGE PLANS

PROJECT NO. 2020110233

FILENAME 2020110233_PM1.dwg CHECKED BY GDB DRAWN BY JP, ED

07/21/2022 DATE

PMP-4





Suite 201 Raleigh, NC 27603

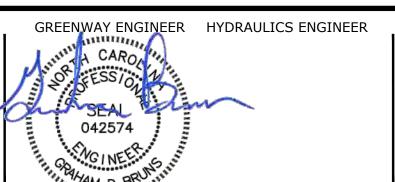
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RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798 DAVID BENDER, PROJECT MANAGER





TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

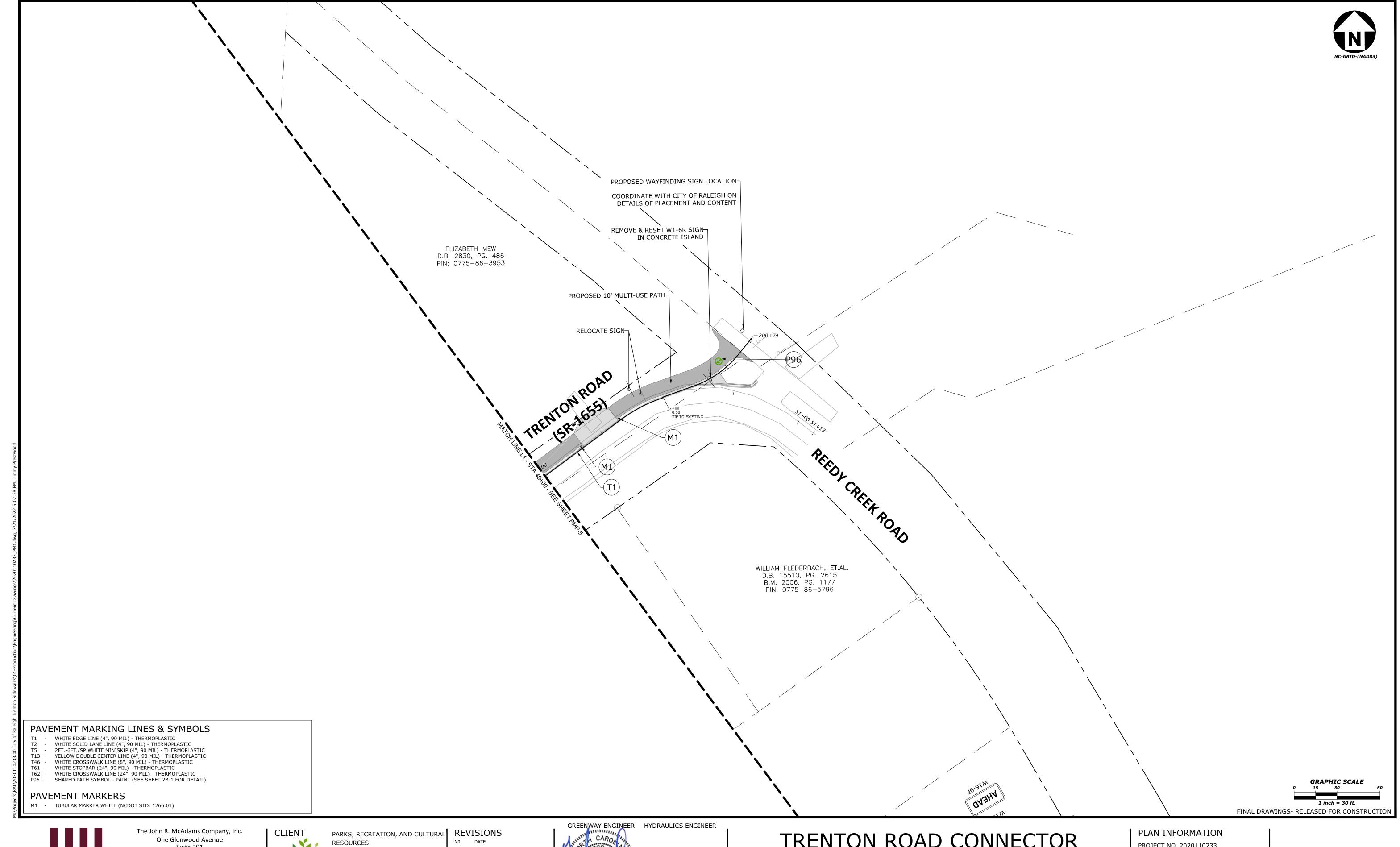
PAVEMENT MARKING & SIGNAGE PLANS

PROJECT NO. 2020110233

FILENAME 2020110233_PM1.dwg CHECKED BY GDB DRAWN BY JP, ED

07/21/2022 DATE







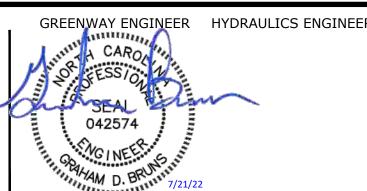
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TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

PAVEMENT MARKING & SIGNAGE PLANS

PROJECT NO. 2020110233

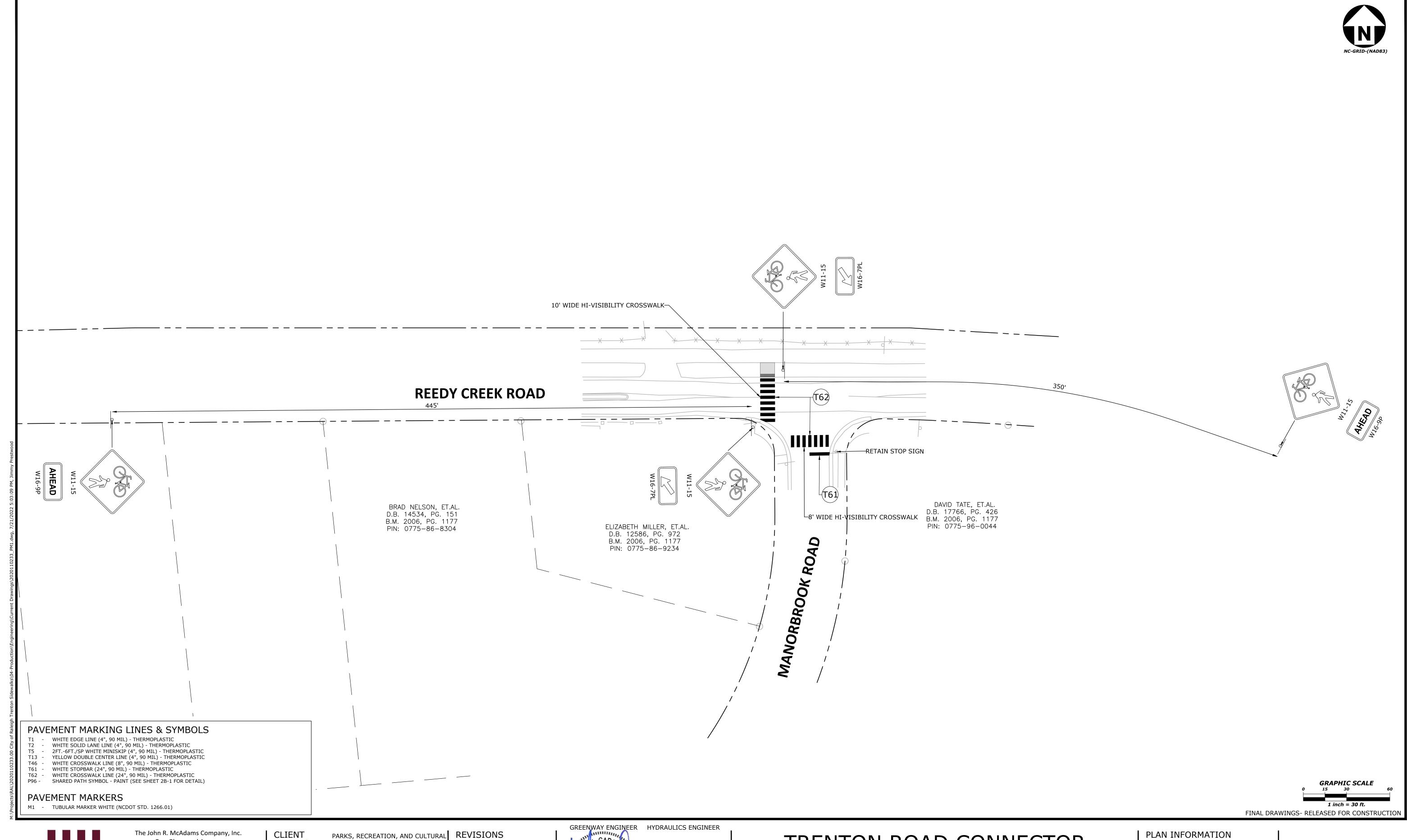
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DRAWN BY JP, ED

DATE

PMP-6





e John R. McAdams Company, Inc. One Glenwood Avenue Suite 201 Raleigh, NC 27603

phone 919. 823. 4300 fax 919. 361. 2269 license number: C-0293, C-187

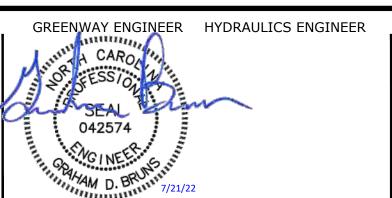
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PARKS, RECREATION, AND CULTUR RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798

DAVID BENDER, PROJECT MANAGER

REVISIONS NO. DATE



TRENTON ROAD CONNECTOR
TRENTON PARK LANE TO REEDY CREEK RD

PAVEMENT MARKING & SIGNAGE PLANS

PLAN INFORMATION
PROJECT NO. 2020110233
FILENAME 2020110233 PM1

FILENAME 2020110233_PM1.dwg
CHECKED BY GDB
DRAWN BY JP, ED

DRAWN BY JP, ED

SCALE 1" = 30'

DATE 07/21/2022

PMP-7

END OF PROJECT BEGINNING OF PROJECT **VICINITY MAP**

RALEIGH, WAKE COUNTY NORTH CAROLINA

TRENTON ROAD CONNECTOR

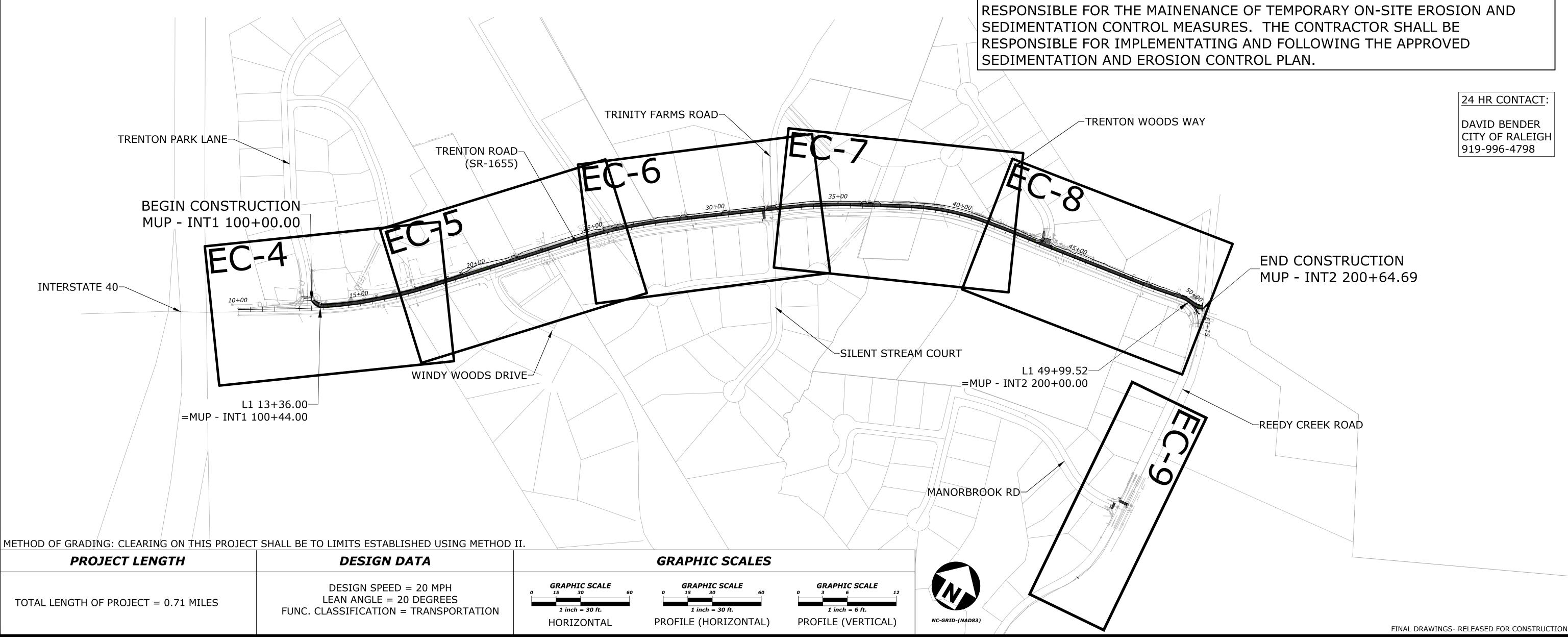
EROSION CONTROL PLANS

INDEX OF SHEETS

| SHEET NO. | SHEET TITLE |
|------------------|-------------|
| EC-1 | COVER SHEET |
| EC-2A THRU EC-2B | NOTES |
| EC-3A THRU EC-3B | DETAILS |
| EC-4 THRU EC-9 | PLANS |

| MAINTENANCE PLAN:

QUALIFIED PERSONNEL SHALL EVALUATE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL PRACTICES ON A DAILY BASIS FOR STABILITY AND OPERATION. WEEKLY INSPECTIONS SHALL BE PERFORMED AND WRITTEN LOGS KEPT. A RAIN GAUGE SHALL ALSO BE KEPT ON SITE AND RAINFALL AMOUNTS RECORDED. ANY REQUIRED REPAIRS SHALL BE PERFORMED IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED. THE CONTRACTOR SHALL BE





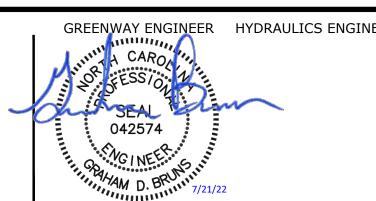
The John R. McAdams Company, Inc. One Glenwood Avenue Suite 201 Raleigh, NC 27603

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PARKS, RECREATION, AND CULTURAL REVISIONS CLIENT RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET RALEIGH, NC 27601 919-996-4798

DAVID BENDER, PROJECT MANAGER



TRENTON ROAD CONNECTOR

TRENTON PARK LANE TO REEDY CREEK RD

COVER SHEET

PLAN INFORMATION PROJECT NO. 2020110233

FILENAME 2020110233_EC2.dwg

07/21/2022

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DATE

EC-1

- 1. SURVEY PERFORMED BY MCADAMS DATED: JUNE 2021
- 2. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
- 3. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, CONSTRUCTION FENCE OR TREE PROTECTION FENCING (IF APPLICABLE) SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION
- 4. ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING, OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- 5. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.
- 6. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF NC811. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- 7. EXISTING UTILITIES AND STRUCTURES, SHOWN BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS, BOTH HORIZONTAL AND VERTICAL, PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 8. CONTRACTOR SHALL ROOT SPADE WITHIN ALL TREE DRIPLINES AND TAKE ALL PRECAUTIONS NECESSARY TO SAVE TREES NOT SHOWN TO BE DEMOLISHED.
- 9. ALL GROUND COVER SHALL BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR IN CRITICAL AREAS AT THE

EROSION CONTROL NOTES:

- 1. CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND NOTIFY THE ENGINEERING OF ANY
- 2. NEW EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AS SHOWN ON PLANS AND INSPECTED PRIOR TO ANY GRADING OR DEMOLITION ON SITE. MAINTENANCE AND REPAIR SHALL BE MADE, AS NECESSARY, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CALL FOR AN INSPECTION ONCE INITIAL
- 3. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE
- 4. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
- 5. INSTALL A RAIN GAUGE (6" CAPACITY OR GREATER) ONSITE.
- 6. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL ALL UPSLOPE DRAINAGE AREAS HAVE BEEN STABILIZED AND PERMANENT VEGETATION HAS BEEN ESTABLISHED.
- 7. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED. ANY DEWATERING ASSOCIATED WITH THIS PROJECT IS TO BE DONE THROUGH A SILT BAG. CONTRACTOR SHALL WORK IN DRY CONDITIONS TO THE MAXIMUM EXTENT POSSIBLE.
- 8. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE EROSION CONTROL PERMIT AND IS SUBJECT TO A FINE. ANY NEED TO DISTURB BEYOND THE APPROVED PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER, ENGINEER AND EROSION CONTROL INSPECTOR.
- 9. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVISES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUNDCOVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN. ALL GRADED SLOPES STEEPER THAN 3:1 MUST BE SEEDED & COMPOST LAID WITHIN 7 DAYS OF COMPLETION OF GRADING. ALL REMAINING DISTURBED AREAS ARE TO BE SEEDED AND COMPOST LAID WITHIN 14 DAYS. PERMANENT SWALES ARE TO BE STABILIZED WITHIN 7 DAYS. SEE THE GROUND STABILIZATION CHART FOR ADDITIONAL REQUIREMENTS.
- 10. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY REPRESENTATIVE OF THE NCDEQ DEMLR DEPARTMENT. ADDITIONAL SILT FENCE OUTLETS AT LOW AREAS MAY BE INSTALLED BY CONTRACTOR AS REQUIRED. E&SC MEASURES ARE TO BE INSTALLED AT ANY AREAS USED FOR CONTRACTOR EQUIPMENT STAGING, MATERIALS LAYDOWN, SPOIL OR WASTE AREA.
- 11. PROTECTION OF EXISTING VEGETATION (IF APPLICABLE): AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
- 12. INSTALLATION AND MAINTENANCE OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE NCDEQ DEMLR INSPECTOR AND THE ENGINEER OR THE OWNER'S REPRESENTATIVE
- 13. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
- 14. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 15. REQUIRED CONSTRUCTION/SAFETY FENCING SHALL BE INSTALLED PRIOR TO BEGINNING LAND DISTURBANCE.
- 16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP ALL DIRT OFF PAVED ROADS. HEAVY MATS MAY BE USED IN LIEU OF ROCK CONSTRUCTION ENTRANCES AS DETERMINED BY THE ON-SITE INSPECTOR.
- 17. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP ALL SEDIMENT ON SITE AND ENSURE NO SEDIMENT LEAVES THE LIMITS OF DISTURBANCE OF THE PROJECT. THIS MAY REQUIRE INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES ABOVE AND BEYOND WHAT IS SHOWN ON THE PLANS. IF ENVIRONMENTAL OR SITE CONDITIONS WARRANT ADDITIONAL EROSION CONTROL MEASURES, CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM DEP REPRESENTATIVE. EROSION CONTROL MEASURES DAMAGED OR REQUIRED DUE TO CONTRACTOR ACTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION AT NO ADDITIONAL COST TO DEPT.
- 18. ALL CONSTRUCTION DEBRIS SHALL BE TESTED AND DISPOSED OF OFF-SITE IN A STATE PERMITTED LINED
- 19. ALL EARTHEN MATERIAL BROUGHT TO OR REMOVED FROM THE PROJECT SITE SHALL COME FROM OR BE DELIVERED TO A SITE THAT HAS A CURRENT EROSION AND SEDIMENTATION CONTROL PLAN.

MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE CHECKED BY THE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF

2. MAINTAIN EROSION CONTROL DEVICES AS FOLLOW:

TEMPORARY SILT FENCE- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. AVOID UNDERMINING THE FENCE.

TEMPORARY CHECK DAM- REMOVE SEDIMENT ACCUMULATION BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ADD STONE TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

STORM DRAIN INLET PROTECTION- REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL.

TEMPORARY DIVERSION DITCH- INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND.

3. ALL GRADED AREAS WILL BE SEEDED, FERTILIZED AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE, VEGETATIVE COVER WITHIN FOURTEEN (14) DAYS OF COMPLETION OF ANY PHASE OF GRADING. IF WORK ON THE PROJECT CEASES FOR MORE THAN THE AFOREMENTIONED LENGTH OF TIME, ALL DISTURBED AREAS SHALL HAVE TEMPORARY VEGETATIVE GROUND COVER ESTABLISHED AND EROSION CONTROL DEVICES MAINTAINED.

<u>GRADING:</u>

- 1. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE NORTH CAROLINA ONE-CALL UTILITIES LOCATION SERVICE AT 1-800-632-4949 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE.
- 2. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY CURB & GUTTER, PAVEMENT, LANDSCAPING, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OF WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
- 3. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.
- 4. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHOWN ON THE APPROVED PLANS FOR THE DURATION OF CONSTRUCTION OR UNTIL FINAL INSPECTION AND APPROVAL.
- 5. IN ORDER TO ENSURE PROPER DRAINAGE, MAINTAIN A MINIMUM 0.50% SLOPE ON THE CURB.
- 6. ALL MATERIALS USED FOR FILL OR BACK-FILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS OR ANY OTHER NON-COMPACTABLE SOIL TYPE MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS REFUSE DEBRIS DERIVED FROM ANY SOURCE.
- 7. ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES. REFER TO THE PAVEMENT CROSS-SECTION DETAILS TO ESTABLISH
- THE CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS.

 8. ALL CONTOURS ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO GROUND BREAKING.
- 9. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- 10. THE LIMITS OF CLEARING SHOWN ON THE GRADING AND EROSION CONTROL PLAN IS BASED ON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.
- 11. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1.
- 12. COORDINATE ALL CURB AND STREET GRADES AT INTERSECTIONS WITH CITY/TOWN INSPECTORS.
- 13. ALL DEBRIS FROM CLEARING OPERATIONS SHALL BE DISPOSED OF IN A LEGAL MANNER.
- 14. HAUL ROADS USED DURING CONSTRUCTION SHALL BE OUTSIDE THE STREAM TOP OF BANK TO THE EXTENT POSSIBLE. HAUL ROADS SHALL FOLLOW THE NATURAL CONTOURS OF THE TERRAIN IF POSSIBLE. A 6" COURSE OF #57 STONE SHALL BE SPREAD OVER HAUL ROADS IN AREAS THAT ARE SUBJECT TO WET CONDITIONS. PROVIDE SUBSURFACE DRAINS IN SEEPAGE AREAS OR SEASONALLY WET AREAS.

SEEDBED PREPARATION

AREAS TO BE SEEDED TO BE SCARIFIED 4" TO 6" DEEP. A FIRM, WELL PULVERIZED, UNIFORM SEEDBED SHOULD BE PROVIDED. FERTILIZER SHALL BE PLACED DURING SCARIFICATION AS FOLLOWS:

LIME: 45 LBS/1000 SF PHOSPOROUS: 20 LBS/1000 SF FERTILIZER: 17 LBS/1000 SF

PER NORTH CAROLINA SOIL AND SEDIMENTATION LAW, A VEGETATIVE GROUND COVER SUFFICIENT TO PERMANENTLY RESTRAIN EROSION SHALL BE RE-ESTABLISHED WITHIN 21 CALENDAR DAYS AFTER COMPLETION OF ANY PHASE OF GRADING. PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

TEMPORARY SEEDING SCHEDULE:

REFER TO THE CITY STANDARD FOR TEMPORARY SEEDING SCHEDULE.

PERMANENT SEEDING SCHEDULE:

FOR PERMANENT SEEDING SPECIFICATIONS, SEASONAL LIMITATIONS FOR SEEDING OPERATIONS, THE KINDS OF GRADES OF FERTILIZERS, TYPE OF SEED, AND THE RATES OF APPLICATION, REFER TO NCDENR ESCPDM SECTION 6.11 AND THE CITY STANDARDS

URBAN FORESTRY NOTES:

- 1. CONTRACTOR SHALL INSTALL REQUIRED TREE PROTECTION FENCE AS SHOWN ON THE APPROVED PLAN AND HAVE IT INSPECTED BY CITY STAFF BEFORE PROCEEDING WITH ADDITIONAL WORK.
- CONTRACTOR SHALL REFRAIN FROM ADDITIONAL CONSTRUCTION ACTIVITIES ON CITY-OWNED OR CONTROLLED PROPERTY UNTIL A SATISFACTORY INSPECTION HAS BEEN COMPLETED BY THE CITY OF THE REQUIRED TREE PROTECTION FENCING AS APPROVED. DISTURBANCE WITHIN THE REQUIRED TREE PROTECTION AREAS WILL RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND MAY REQUIRE MITIGATION INCLUDING BUT NOT LIMITED TO MONETARY PENALTIES, PRUNING, TREE REMOVAL, AND REPLANTING AS DETERMINED BY THE CITY.
- 3. ADDITIONAL TREES MAY BE REQUIRED TO BE REMOVED ON CITY-OWNED OR CONTROLLED PROPERTY AT THE DISCRETION OF THE URBAN FORESTER.

CONSTRUCTION SEQUENCE:

THE FOLLOWING SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS. ADDITIONS, DELETIONS, AND MODIFICATIONS SHOULD BE MADE AS APPROPRIATE.

PHASE 1:

- 1. THE CONTRACTOR SHALL SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH NCDEMLR EROSION CONTROL INSPECTOR TO DISCUSS EROSION CONTROL MEASURES. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION AND IS SUBJECT TO FINE.
- 2. CONTRACTOR TO MAINTAIN ALL EXISTING EROSION CONTROL FEATURES AND INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT BASINS, DIVERSION DITCHES, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- 3. SCHEDULE AN ON-SITE INSPECTION BY NCDEMLR INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
- 4. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- 5. THE CONTRACTOR SHALL NOT BEGIN WORK THAT CANNOT BE STABILIZED BY THE END OF THE WORK DAY.
- 6. ALL EARTH MOVING EQUIPMENT SHALL BE SERVICED PRIOR TO WORK COMMENCING EACH DAY. EQUIPMENT SHALL BE MAINTAINED TO PREVENT FUEL, OIL, AND LUBRICANT SPILLS IN THE VICINITY OF A STREAM.
- 7. FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.

PHASE 2:

- 1. BEGIN EARTHWORK/GRADING ACTIVITIES. BEGIN GRADING OF FILL SLOPES. MAINTAIN AND VERTICALLY ADJUST ALL ROCK CHECK DAMS, INLET PROTECTION DEVICES, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT PER TRAFFIC CONTROL PLANS.
- AS EARTHWORK ALLOWS, BEGIN INSTALLING STORM DRAINAGE STRUCTURES AND PROPOSED DITCHES. AS STORM DRAINAGE IS INSTALLED, CONTRACTOR SHALL PLACE INLET PROTECTION ON ALL STORM STRUCTURES AND REMOVE INLET PROTECTION WHERE EXISTING STORM DRAINAGE IS REMOVED.
- 2. DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE STATE INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- 3. AS CONSTRUCTION PROGRESSES, INSTALL PERMANENT EROSION CONTROL MEASURES SUCH AS RIP RAP APRONS, VELOCITY DISSIPATORS, CHANNEL LINERS, GRAVEL BASE COURSE, ETC.
- 4. GRADED SLOPES AND FILLS ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER SUFFICIENT TO RESTRAIN EROSION WITHIN 14 CALENDAR DAYS AFTER THE COMPLETION OF ANY PHASE OF GRADING. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 21 CALENDAR DAYS.
- 5. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL AND U.S. DEPT. OF AGRICULTURE

1. AS AREAS ARE BROUGHT TO FINISHED GRADE, CONTRACTOR TO INSTALL FINAL GRASSING AND STABILIZE ALL SLOPES PER THE EROSION CONTROL NOTES AND DETAILS.

2. CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.

NCDOT STANDARDS:

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - 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:

D.NO. TITLE

DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT 1605.01 Temporary Silt Fence

6.01 Special Sediment Control Fence 1.01 Matting Installation 2.03 Rock Inlet Sediment Trap Type C

32.03 Rock Inlet Sediment Trap Type C
33.02 Temporary Rock Silt Check Dam Type B
35.02 Rock Pipe Inlet Sediment Trap Type B

ADDITIONAL NCDOT STANDARDS NOT ON THE LIST ABOVE MAY BE REQUIRED AS PER PLAN DETAILS AND SPECIFICATIONS

DDOJECT DESCRIPTION:

THE PROJECT SITE IS LOCATED IN WAKE COUNTY WITHIN THE CITY OF RALEIGH AND IS WITHIN THE NEUSE RIVER BASIN. THE PROPOSED PROJECT INCLUDES THE CONSTRUCTION OF APPROXIMATELY 0.71 MILES OF NEW MULTI-USE PATH ALONG TRENTON ROAD BETWEEN TRENTON PARK LANE AND REEDY CREEK ROAD. THE LIMITS OF DISTURBANCE WERE CALCULATED BASED ON CLEARING METHOD II AT APPROXIMATELY 2.0 ACRES FOR THIS SITE. ALL DISTURBED AREAS WILL BE STABILIZED WITH VEGETATION BY SEEDING AND MULCHING.

THE PROJECT DESIGN SHALL COMPLY WITH NORTH CAROLINA LAND QUALITY GUIDELINES AND PROCEDURES AND ALL APPLICABLE FEDERAL, STATE, AND TOWN REQUIREMENTS.

TOTAL DISTURBED AREA = ± 2.00 AC

FINAL DRAWINGS- RELEASED FOR CONSTRUCTION

PLAN INFORMATION

MCADAMS

The John R. McAdams Company, Inc.
One Glenwood Avenue
Suite 201
Raleigh, NC 27603

phone 919. 823. 4300 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

PARKS, RECREATION, AND CULTURAL RESOURCES
RALEIGH MUNICIPAL BUILDING
222 W. HARGETT STREET
SUITE 600
RALEIGH, NC 27601
919-996-4798
CONTACT:
DAVID BENDER, PROJECT MANAGER

AL REVISION NO. DATE GREENWAY ENGINEER HYDRAULICS ENGINEER

CARO

SEAL

042574

MGINEER

1,7/21/22

TRENTON ROAD CONNECTOR
TRENTON PARK LANE TO REEDY CREEK RD

GENERAL NOTES

PROJECT NO. 2020110233

FILENAME 2020110233_EC2.dwg

CHECKED BY GDB

DRAWN BY JP, ED

SCALE 1" = 200'

07/21/2022

DATE

EC-2A

plementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling ections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction

| | ION E: GROUND STAE | | |
|-----|--|--|--|
| | Re | quired Ground Stabil | ization Timeframes |
| Sit | te Area Description | Stabilize within this
many calendar
days after ceasing
land disturbance | Timeframe variations |
| (a) | Perimeter dikes,
swales, ditches, and
perimeter slopes | 7 | None |
| (b) | High Quality Water (HQW) Zones | 7 | None |
| (c) | Slopes steeper than 3:1 | 7 | If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed |
| (d) | Slopes 3:1 to 4:1 | 14 | -7 days for slopes greater than 50' in
length and with slopes steeper than 4:1
-7 days for perimeter dikes, swales,
ditches, perimeter slopes and HQW
Zones
-10 days for Falls Lake Watershed |
| (e) | Areas with slopes flatter than 4:1 | 14 | -7 days for perimeter dikes, swales,
ditches, perimeter slopes and HQW Zone
-10 days for Falls Lake Watershed unless
there is zero slope |

Note: After the permanent cessation of construction activities, any areas with temporar ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

| | Temporary Stabilization |
|--|--|
| | Temporary grass seed covered with straw or |
| | other mulches and tackifiers |
| | Hydroseeding |
| | Rolled erosion control products with or |
| | without temporary grass seed |
| | Appropriately applied straw or other mulch |

- Permanent grass seed covered with straw or other mulches and tackifiers
- Geotextile fabrics such as permanent soi reinforcement matting Hydroseeding Appropriately applied straw or other mulch
 Shrubs or other permanent plantings covered
 - Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

Select flocculants that are appropriate for the soils being exposed during construction. selecting from the NC DWR List of Approved PAMS/Flocculants. Apply flocculants at or before the inlets to Erosion and Sediment Control Measure

Apply flocculants at the concentrations specified in the NC DWR List of Approved

Provide ponding area for containment of treated Stormwater before discharging Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

PAMS/Flocculants and in accordance with the manufacturer's instructions.

- EQUIPMENT AND VEHICLE MAINTENANC Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the Collect all spent fluids, store in separate containers and properly dispose as
- hazardous waste (recycle when possible). Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum product to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland

Cover waste containers at the end of each workday and before storm events or

- provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if
- Dispose waste off-site at an approved disposal facility. 9. On business days, clean up and dispose of waste in designated waste containers.

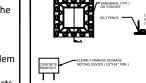
PAINT AND OTHER LIQUID WASTE

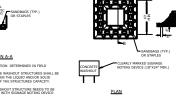
- Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area. Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replac

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile. Provide stable stone access point when feasible Stabilize stockpile within the timeframes provided on this sheet and in accordance
- with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.





BELOW GRADE WASHOUT STRUCTURE

CONCRETE WASHOUTS

- Dispose of, or recycle settled, hardened concrete residue in accordance with local
- and state solid waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If ar alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste mus-
- be pumped out and removed from project Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive
- spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone
- entrance pad in front of the washout. Additional controls may be required by the approving authority. Install at least one sign directing concrete trucks to the washout within the project
- limits. Post signage on the washout itself to identify this location. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary
- 0. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

products, follow manufacturer's instructions.

- Store and apply herbicides, pesticides and rodenticides in accordance with label
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

Create designated hazardous waste collection areas on-site. Place hazardous waste containers under cover or in secondary containment.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day or which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be

| Inspect | Frequency
(during normal
business hours) | Inspection records must include: | | | | | | | | |
|--|---|---|--|--|--|--|--|--|--|--|
| (1) Rain gauge
maintained in
good working
order | Daily | Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division. | | | | | | | | |
| 2) E&SC
Vleasures | At least once per
7 calendar days
and within 24
hours of a rain
event ≥ 1.0 inch in
24 hours | Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken. | | | | | | | | |
| (3) Stormwater
discharge
outfalls (SDOs) | At least once per
7 calendar days
and within 24
hours of a rain
event ≥ 1.0 inch in
24 hours | Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, Description, evidence, and date of corrective actions taken. | | | | | | | | |
| (4) Perimeter of
site | At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours | If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases. | | | | | | | | |
| (5) Streams or
wetlands onsite
or offsite
(where
accessible) | At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours | If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit. | | | | | | | | |
| (6) Ground
stabilization
measures | After each phase of grading | The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization. | | | | | | | | |

NOTE: The rain inspection resets the required 7 calendar day inspection requirement

measures have been provided within the required

timeframe or an assurance that they will be provided as

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

| Item to Document | Documentation Requirements |
|---|---|
| (a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan. | Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation. |
| (b) A phase of grading has been completed. | Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase. |
| (c) Ground cover is located and installed in accordance with the approved E&SC plan. | Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications. |
| (d) The maintenance and repair requirements for all E&SC measures have been performed. | Complete, date and sign an inspection report. |
| (e) Corrective actions have been taken to E&SC measures. | Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the |

2. Additional Documentation to be Kept on Site In addition to the E&SC plan documents above, the following items shall be kept on the

- site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make
- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of

shown to provide equal access and utility as the hard-copy records.

. Documentation to be Retained for Three Years All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

electronically-available records in lieu of the required paper copies will be allowed if

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn dow

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal
- properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,

for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather) Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- shall not commence until the E&SC plan authority has approved these items (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,

- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United State.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING . Occurrences that Must be Reported

- Permittees shall report the following occurrences: (a) Visible sediment deposition in a stream or wetland.

- They are 25 gallons or more, • They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800)

Reporting Timeframes (After Discovery) and Other Requirements (a) Visible sediment • Within 24 hours, an oral or electronic notification. . Within 7 calendar days, a report that contains a description of the Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sedimentrelated causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions

- Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and release of substances per Item 1(b)-(c) above A report at least ten days before the date of the bypass, if possible vpasses [40 CFR The report shall include an evaluation of the anticipated quality and [22,41(m)(3)] effect of the bypass.
- Within 24 hours, an oral or electronic notification. · Within 7 calendor days, a report that includes an evaluation of the 122.41(m)(3)]
- (e) Noncompliance Within 24 hours, an oral or electronic notification with the conditions • Within 7 calendor days, a report that contains a description of the of this permit that noncompliance, and its causes; the period of noncompliance, health or the been corrected, the anticipated time noncompliance is expected to
 - continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. (40 CFR 122.41(I)(6). Division staff may waive the requirement for a written report on a case-by-case basis.

EFFECTIVE: 04/01/19

GREENWAY ENGINEER HYDRAULICS ENGINEER 042574

DEMLR Monitoring Form DEMLR Form Rev. 04012019

INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCG010000 AND SELF-INSPECTION RECORDS FOR LAND DISTURBING ACTIVITIES PER G.S. 113A-54.1

| Project Name | | Land Quality or Local Program Project # |
|---|--------------|---|
| Financially Responsible
Party, (FRP) / Permittee | | County |
| INSPECTOR | Name | Employer |
| Inspector Type (Mark) X | Address | |
| FRP/Permittee | | |
| Agent/Designee | Phone Number | Email Address |

PART 1A: Rainfall Data Rain Amt (inches) Daily Rainfall Required, except for Day / Date Holidays or Weekends. If no rain, indicate with a "zero" Sat (Optional)

PART 1B: Current Phase of Project Phase of Grading check the applicable box(es) Installation of perimeter erosion and sediment control measures Clearing and grubbing of existing ground cover Completion of any phase of grading of slopes or fills Installation of storm drainage facilities Completion of all land-disturbing activity, construction or development Permanent ground cover sufficient to restrain erosion has been established

| By this signature, I certify in accordance with | n the NCG010000 | permit & G.S. 113A-54.1 that this report is accurate and complete to the best of my knowledge. | |
|---|-----------------|--|--|
| Financially Responsible Party / Permittee or Agent / Designee | | Date | |
| | GROU | IND STABILIZATION TIMEFRAMES | |
| Site Area Description | Stabilization | Timeframe Variations | |
| Perimeter dikes, swales and slopes | 7 Days | None | |
| High Quality Water (HQW) Zones | 7 Days | None | |
| Slopes Steeper than 3:1 | 7 Days | 14 days for slopes 10 ft or less in length and not steeper than 2:1 10 days for Falls Lake Watershed | |
| Slopes 3:1 to 4:1 | 14 Days | 7 days for slopes greater than 50 ft in length, 10 days for Falls Lake Watershed | |
| All other areas with slopes flatter than 4:1 | 14 Days | 10 days for Falls Lake Watershed | |

DEMLR Monitoring Form DEMLR Form Rev. 04012019

Sun (Optional)

Page 2 of 2

PART 2A: EROSION AND SEDIMENTATION CONTROL MEASURES: Measures must be inspected at least ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT EQUAL TO OR GREATER THAN 1.0 INCH PER 24 HOUR PERIOD. **Erosion and Sedimentation Control Measures Inspected** Noted as Describe Actions Needed Corrected Corrective actions should be performed as soon Measure ID or New Measures Installed * as possible and before the next storm event Location and Actual Significant Proposed Maintenance <u>Dimensions</u> <u>Dimensions</u> <u>Deviation from</u> Needed? (ft.) Plan? (Y/N) (ft.) (Y/N)

*New erosion and sedimentation control measures installed since the last inspection should be documented here or by initialing and dating each measure or practice shown on a copy of the approved erosion and sedimentation control plan. List Dimensions of Measures such as Sediment Basins and Riprap Aprons

PART 2B: STORMWATER DISCHARGE OUTFALLS (SDOs): SDOs must be inspected at least ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT EQUAL TO OR GREATER THAN 1.0 INCH PER 24 HOUR PERIOD. Stormwater Discharge Outfalls Inspected Noted as Report Visible Sedimentation to streams or wetlands to Any Visible | Any Increase | Any Corrected Date Land Quality within 24 Hours edimentation in Stream Visible Any visible oil in Streams, Turbidity Erosion sheen, floating or https://deg.nc.gov/contact/regional-offices from Describe Actions Needed Wetlands or below suspended solids or ID or Outside Site | Discharge? | SDO? | discoloration? (Y/N) Corrective actions should be performed as soon as possible and Location Limits? (Y/N) (Y/N) before the next storm event

PART 2C: GROUND STABILIZATION Must be recorded after each Phase of Grading Areas Where Land Disturbance Has Been Time Limit for Is Ground Cove Completed or Temporarily Stopped Sufficient to Noted as Ground Cover Describe Actions Needed 7 days or 14 Restrain Erosion? Corrected (Y/N)

FINAL DRAWINGS- RELEASED FOR CONSTRUCTION

TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

GENERAL NOTES

PROJECT NO. 2020110233 FILENAME 2020110233_EC2.dwg CHECKED BY GDB DRAWN BY JP, ED SCALE 1'' = 200'

07/21/2022

DATE

PLAN INFORMATION

EC-2B



One Glenwood Avenue Raleigh, NC 27603

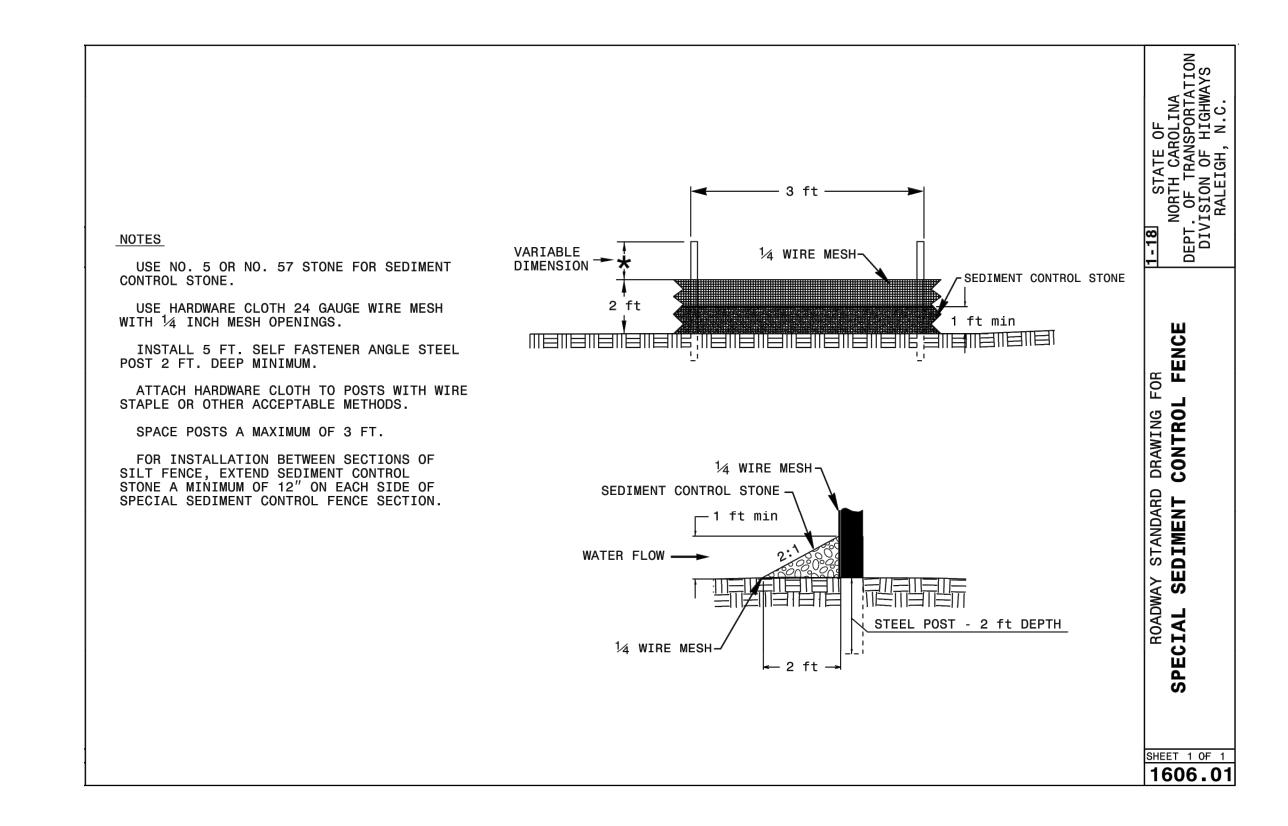
phone 919. 823. 4300 fax 919. 361. 2269 license number: C-0293, C-187

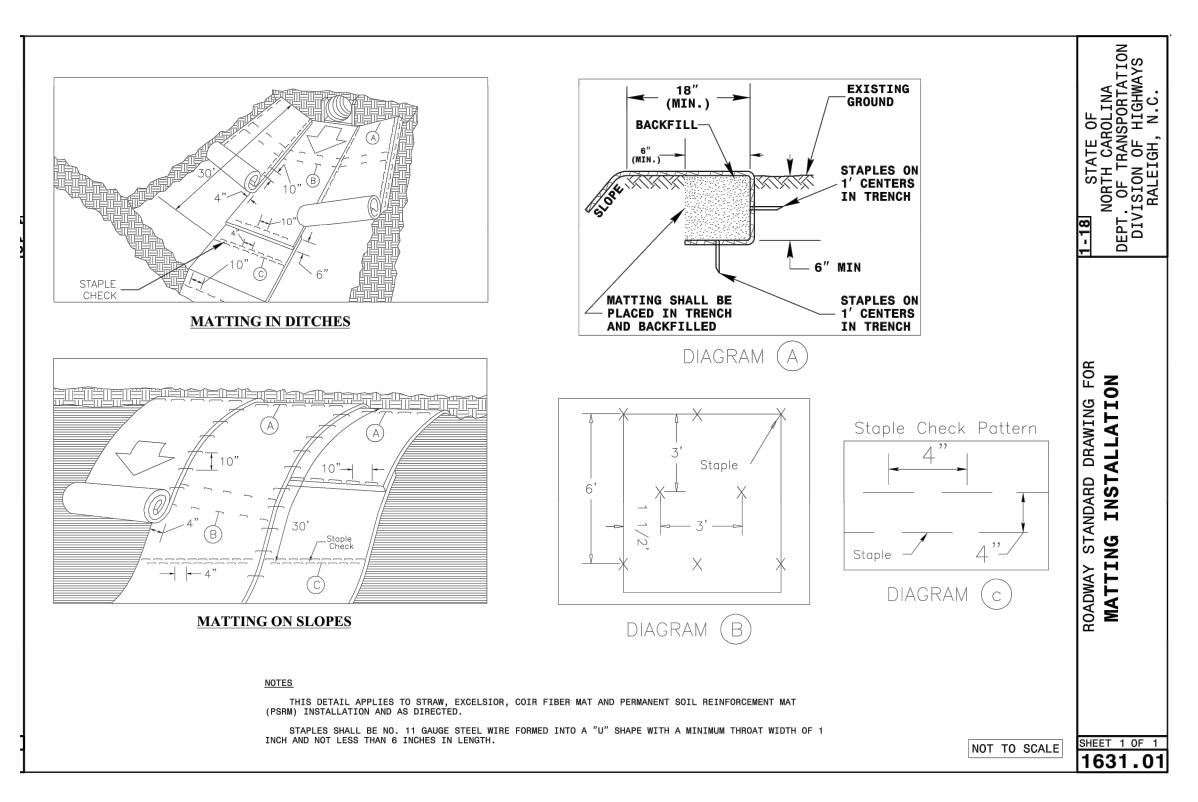
www.mcadamsco.com

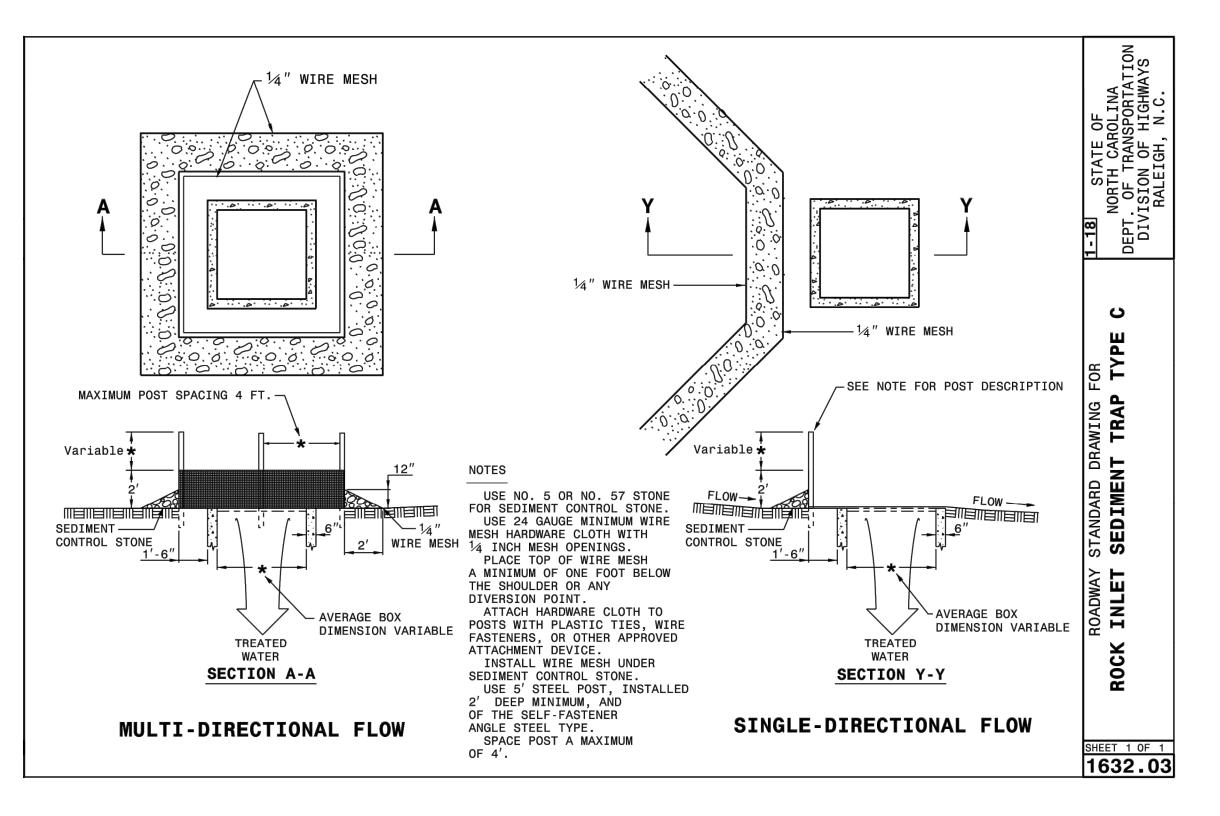
NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

PARKS, RECREATION, AND CULTURAL REVISIONS RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET RALEIGH, NC 27601

DAVID BENDER, PROJECT MANAGER







FINAL DRAWINGS- RELEASED FOR CONSTRUCTION



The John R. McAdams Company, Inc. One Glenwood Avenue Suite 201 Raleigh, NC 27603

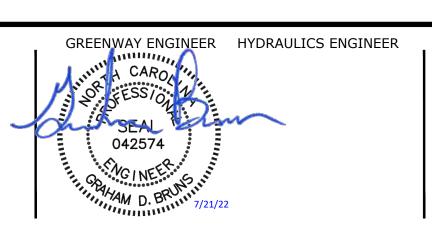
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PARKS, RECREATION, AND CULTURAL REVISIONS RESOURCES RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798 DAVID BENDER, PROJECT MANAGER

NO. DATE



TRENTON ROAD CONNECTOR

TRENTON PARK LANE TO REEDY CREEK RD

DETAILS

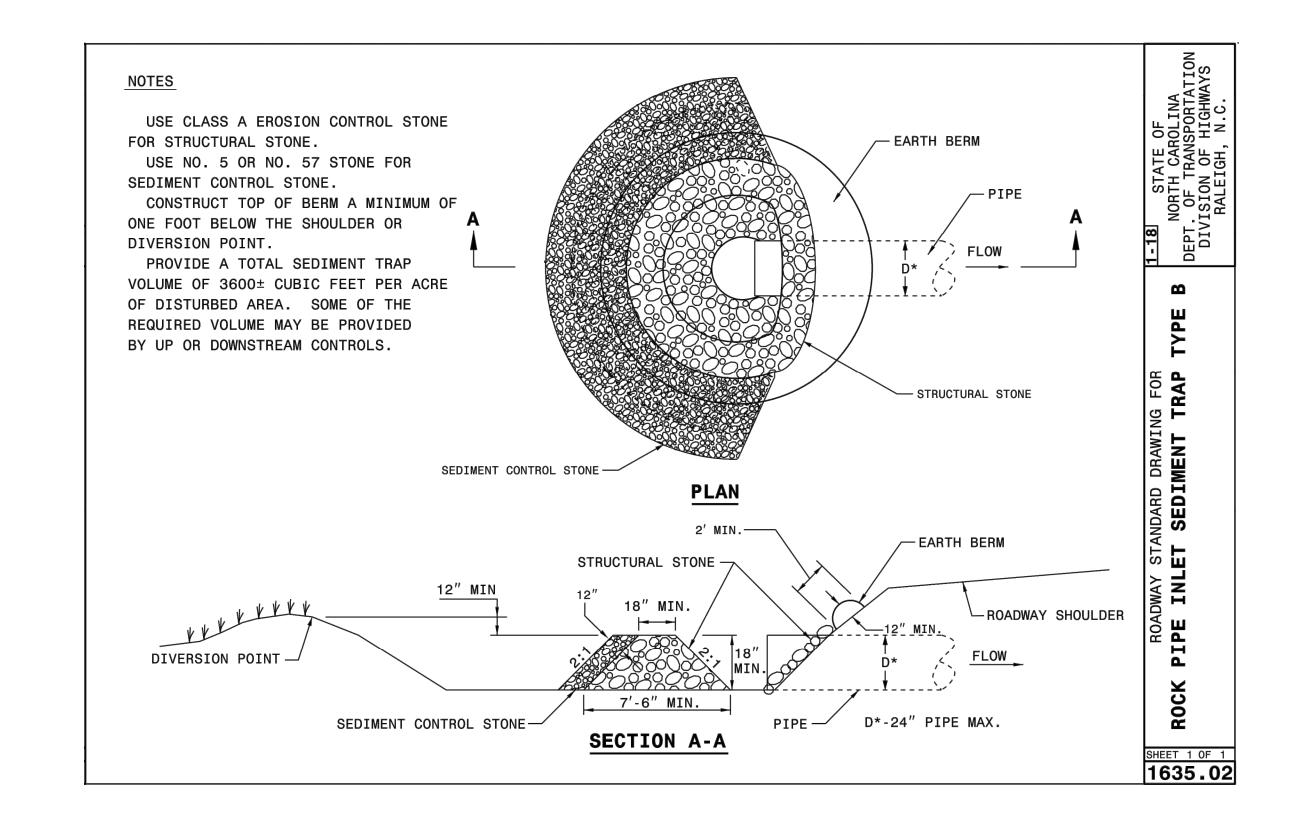
PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_EC2.dwg

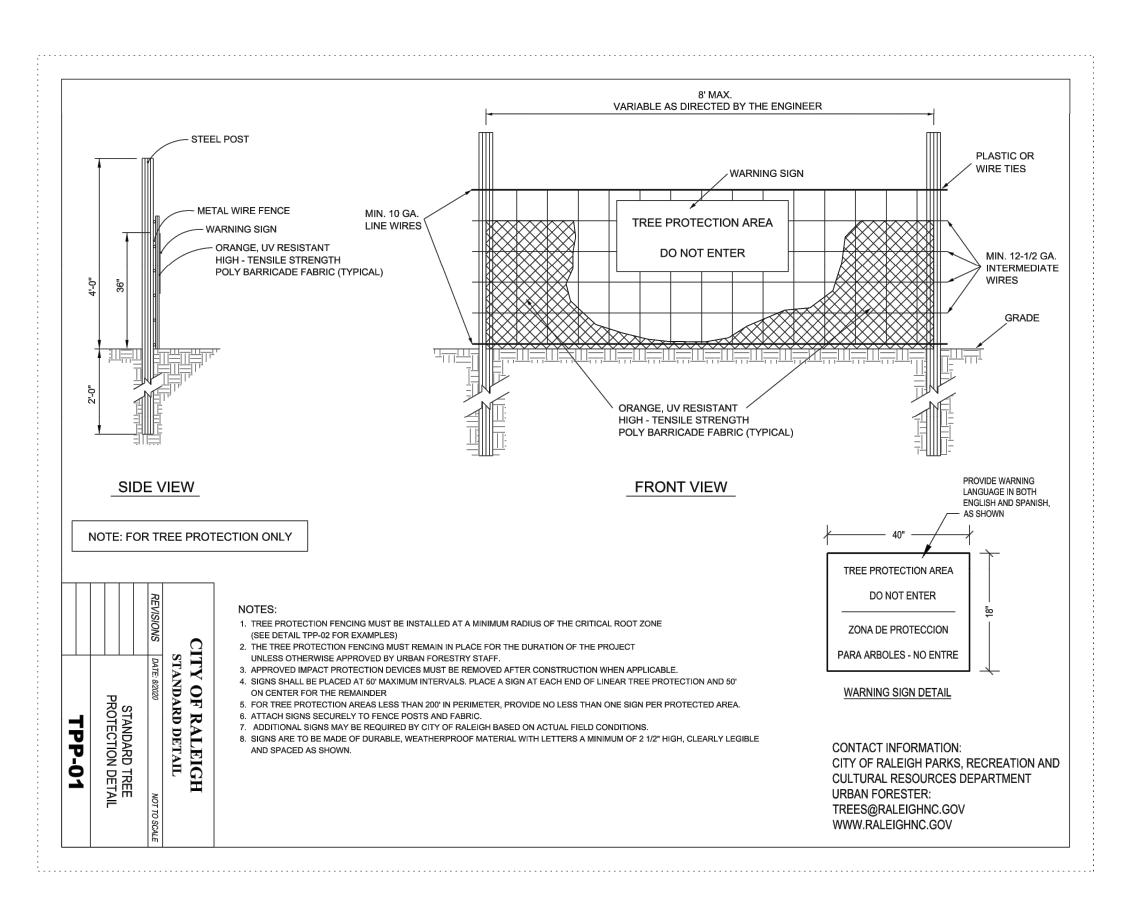
07/21/2022

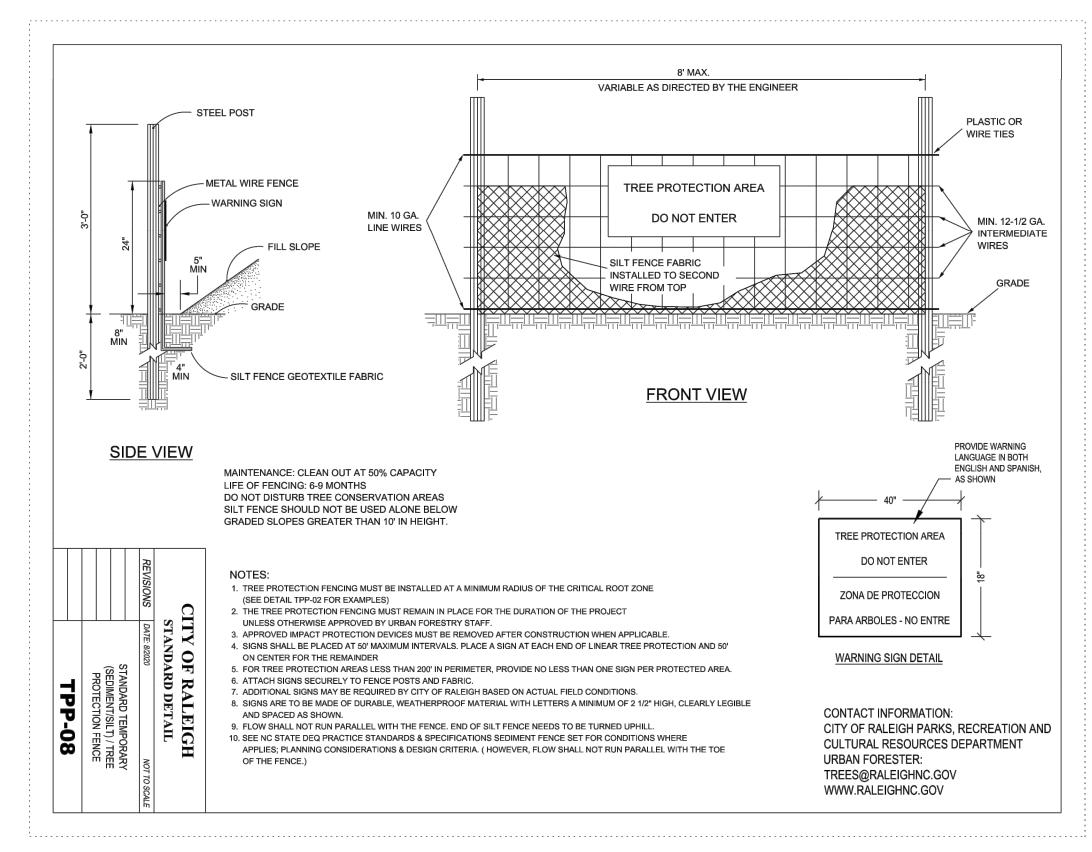
CHECKED BY GDB DRAWN BY JP, ED SCALE 1'' = 200'

DATE

EC-3A







FINAL DRAWINGS- RELEASED FOR CONSTRUCTION

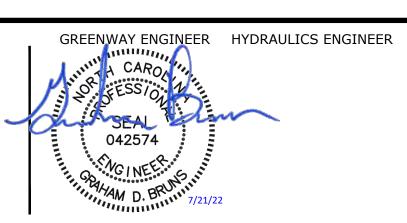


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TRENTON ROAD CONNECTOR

TRENTON PARK LANE TO REEDY CREEK RD

DETAILS

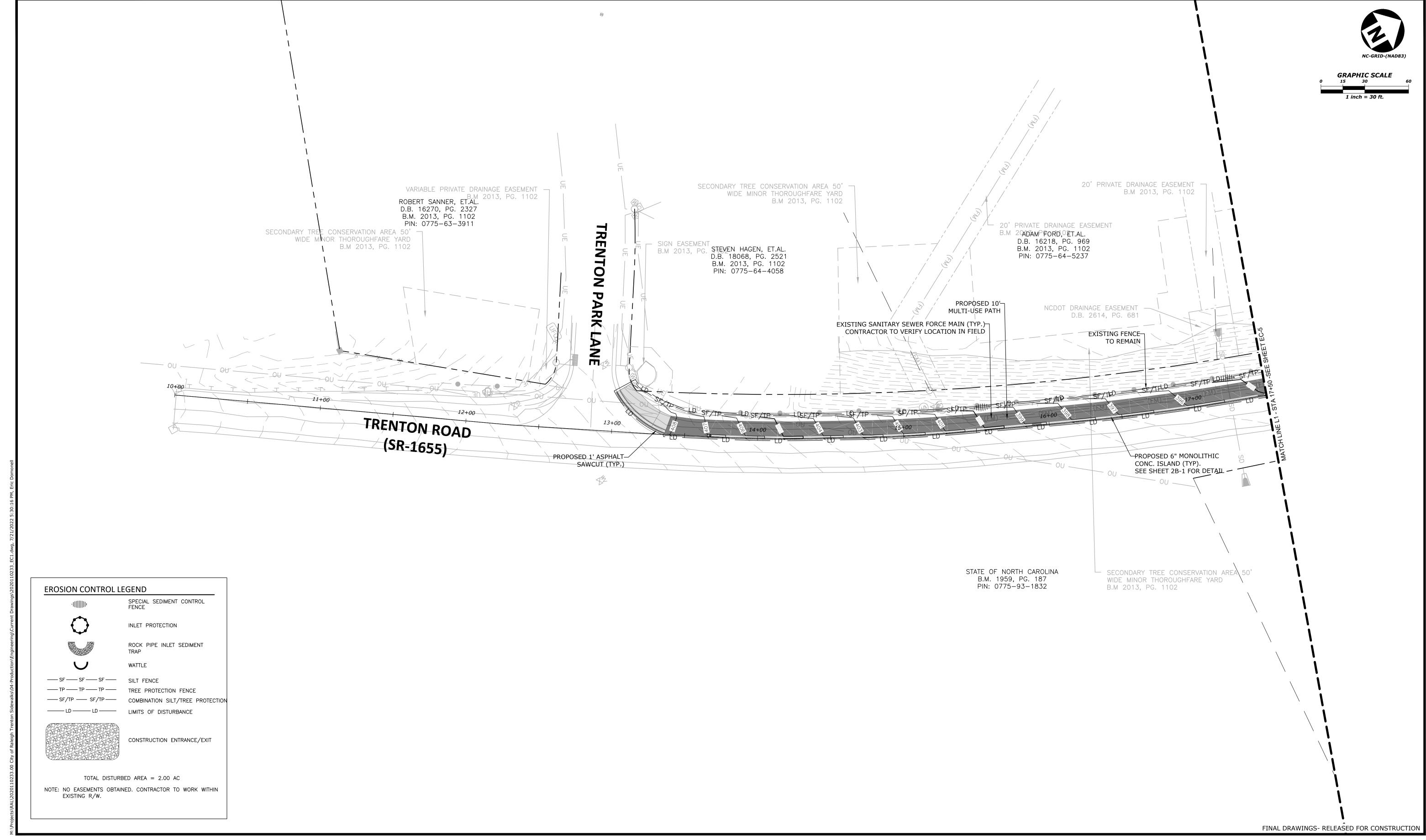
PLAN INFORMATION PROJECT NO. 2020110233 FILENAME 2020110233_EC2.dwg

07/21/2022

CHECKED BY GDB DRAWN BY JP, ED 1" = 200'

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TRENTON ROAD CONNECTOR
TRENTON PARK LANE TO REEDY CREEK RD

EROSION CONTROL PLAN

PLAN INFORMATION

PROJECT NO. 2020110233

FILENAME 2020110233_EC1.dwg

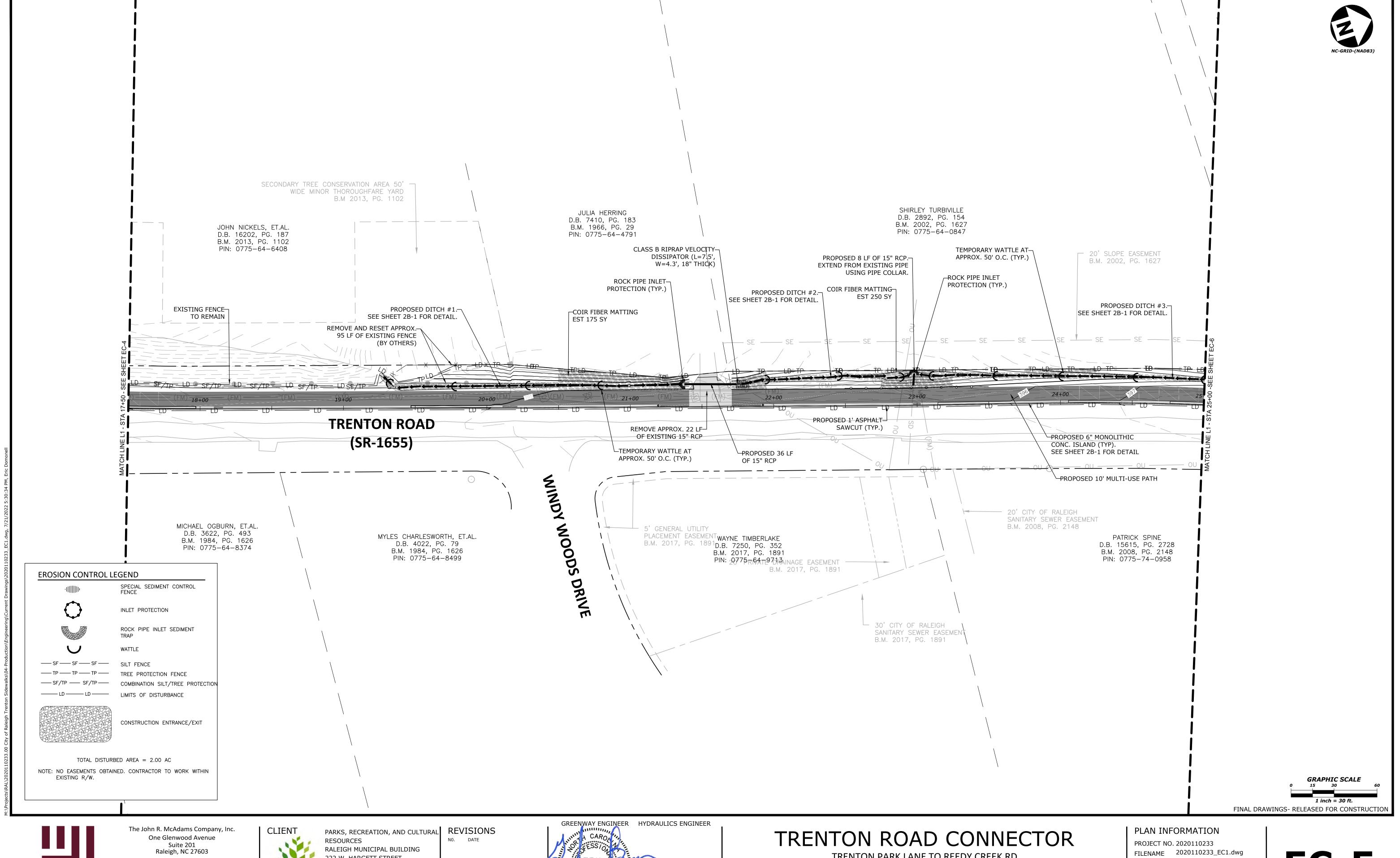
CHECKED BY GDB

DRAWN BY JP, ED

SCALE 1" = 30'

07/21/2022

DATE





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222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798 DAVID BENDER, PROJECT MANAGER



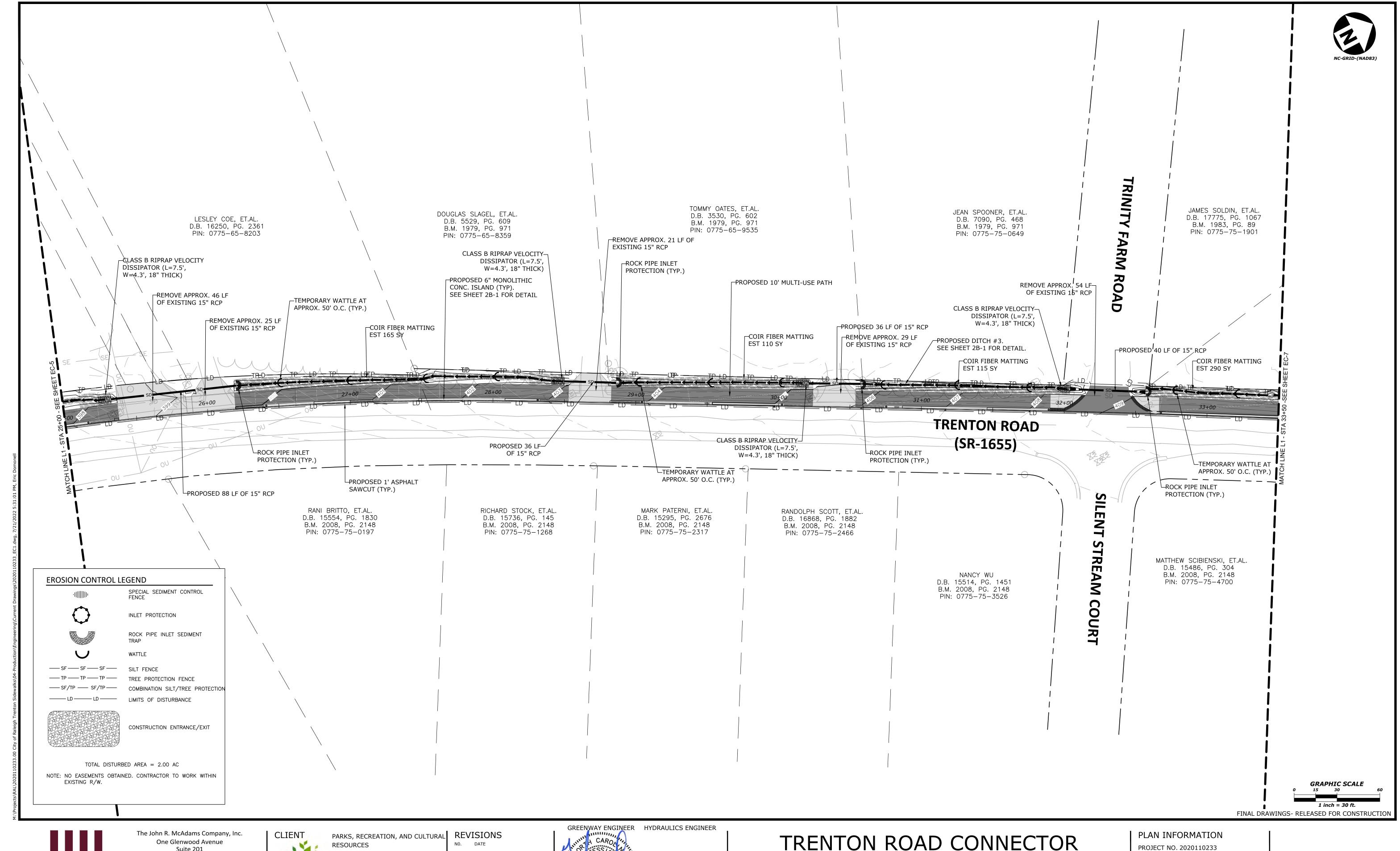
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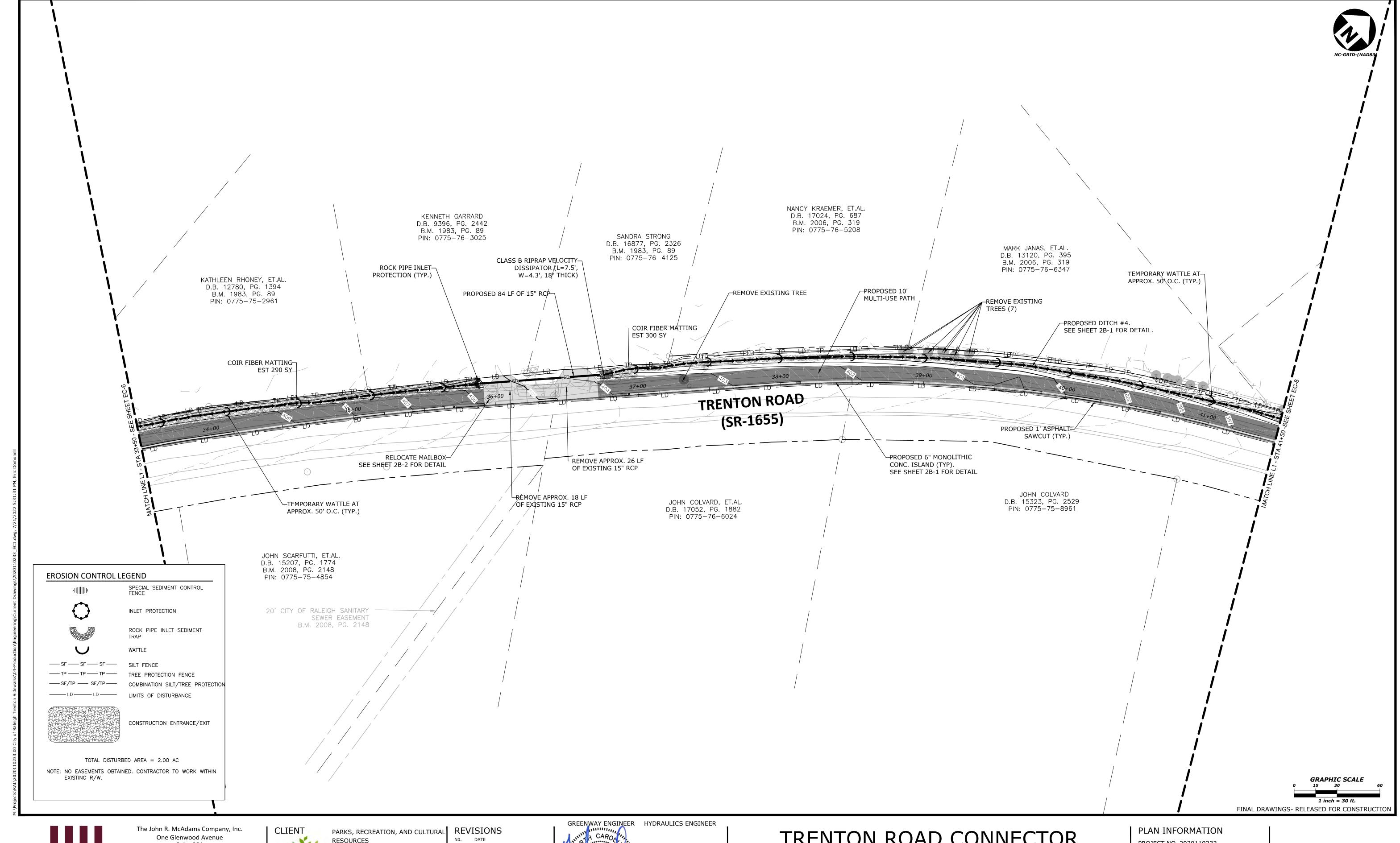
RALEIGH MUNICIPAL BUILDING 222 W. HARGETT STREET SUITE 600 RALEIGH, NC 27601 919-996-4798 DAVID BENDER, PROJECT MANAGER SEAL 042574

TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

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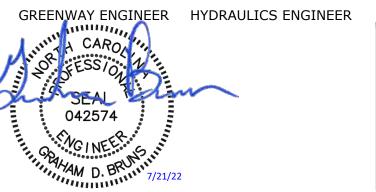


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TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

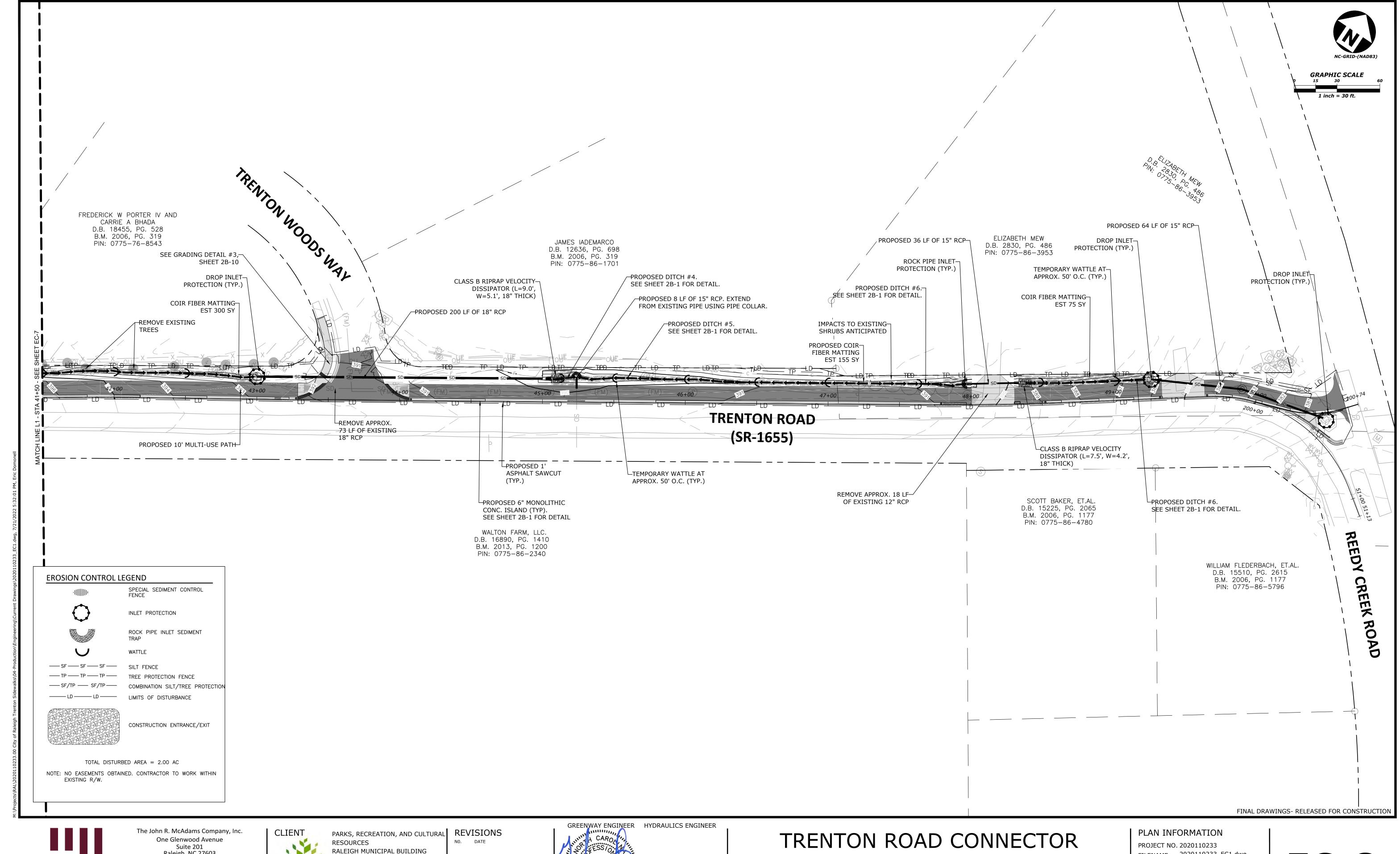
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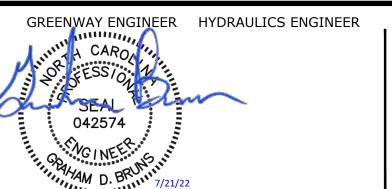




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TRENTON PARK LANE TO REEDY CREEK RD

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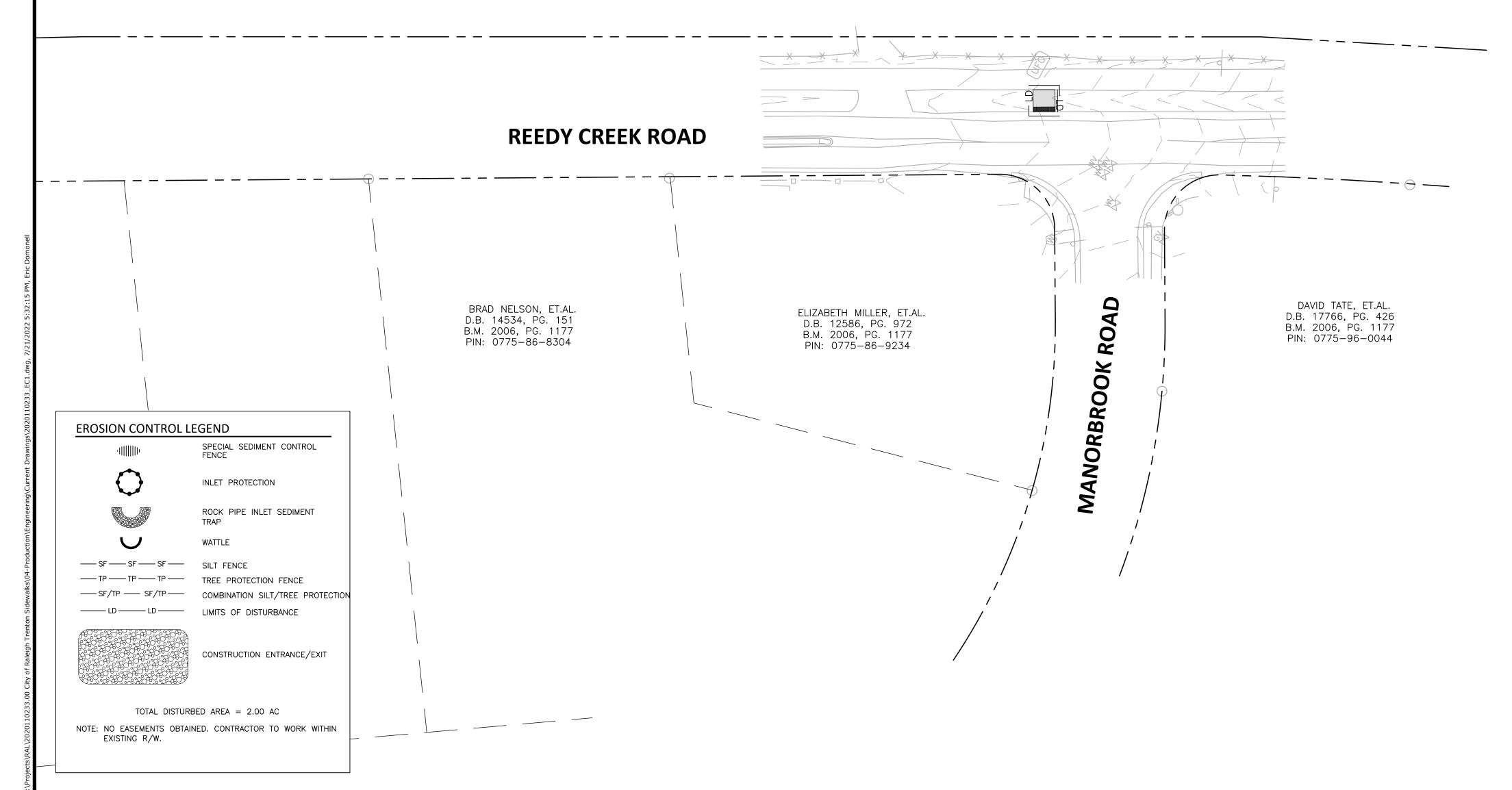
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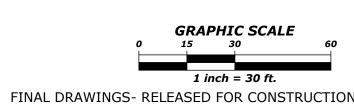
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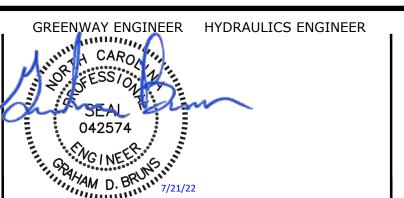
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TRENTON ROAD CONNECTOR TRENTON PARK LANE TO REEDY CREEK RD

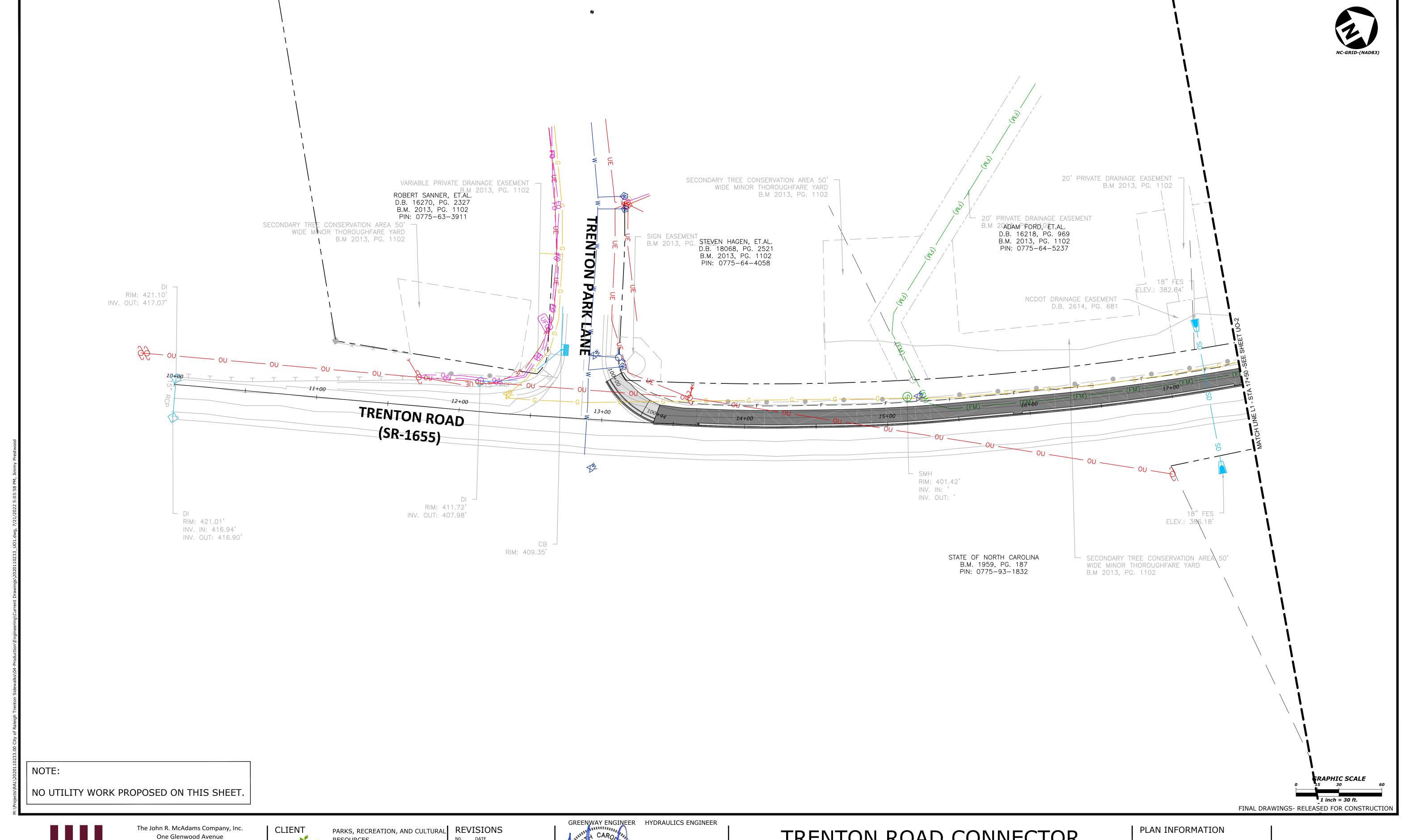
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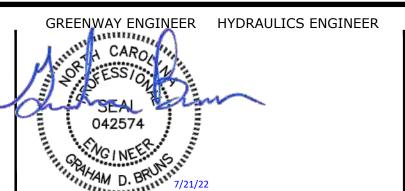


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TRENTON ROAD CONNECTOR
TRENTON PARK LANE TO REEDY CREEK RD

UTILITIES BY OTHERS PLANS

PLAN INFORMATION

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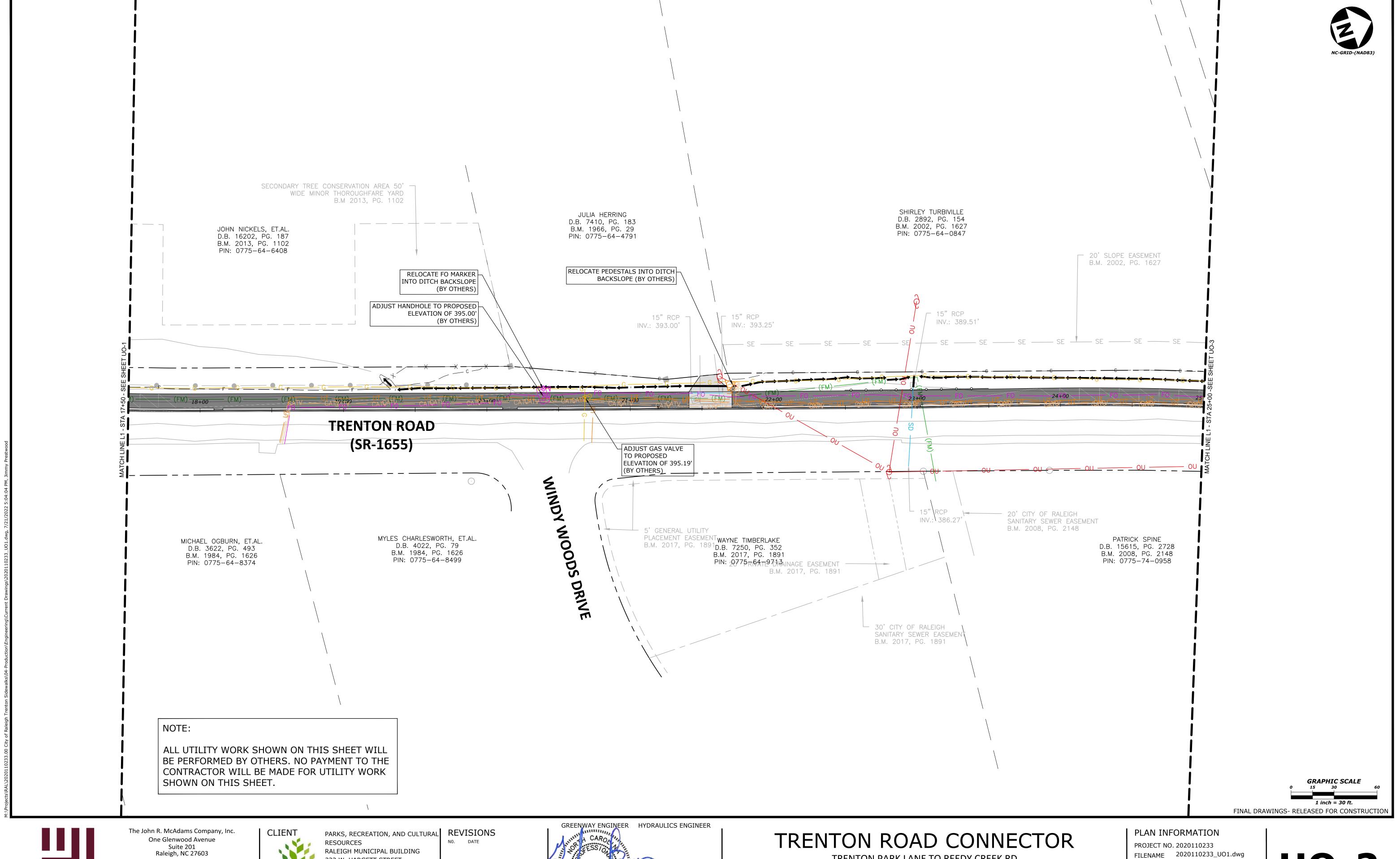
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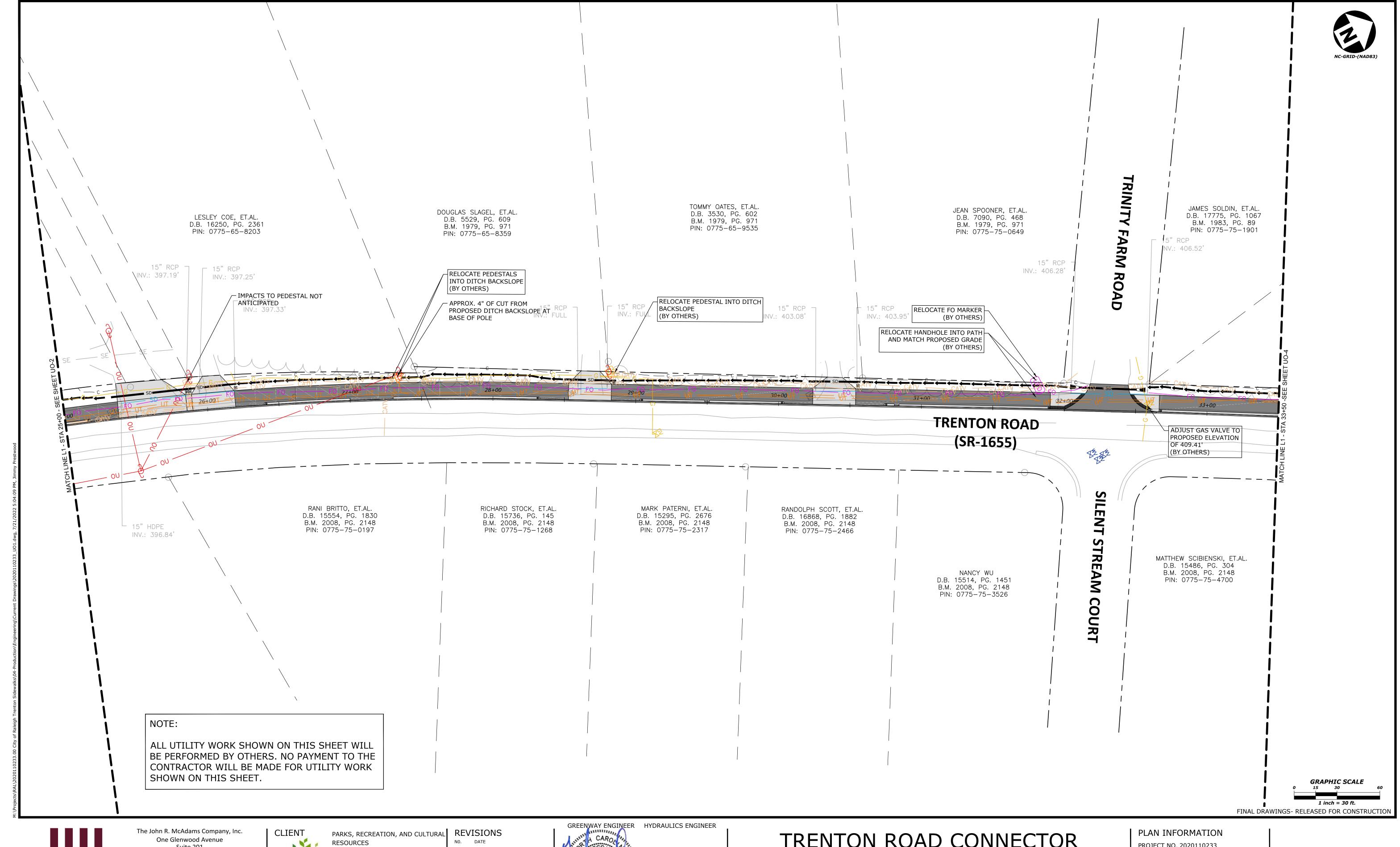
TRENTON PARK LANE TO REEDY CREEK RD

UTILITIES BY OTHERS PLANS

07/21/2022

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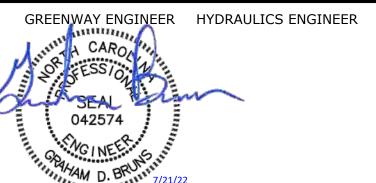
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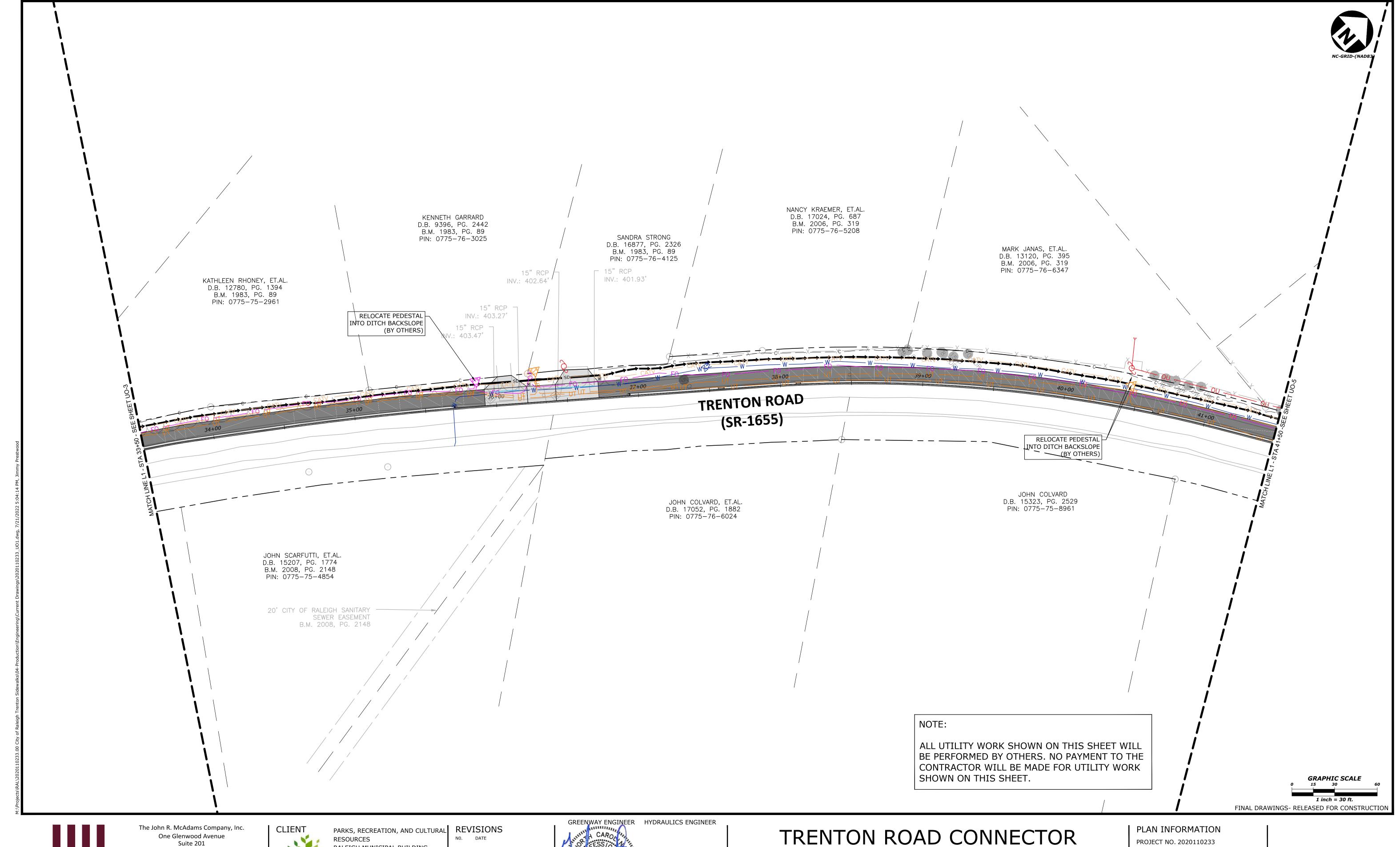
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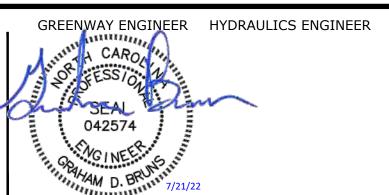


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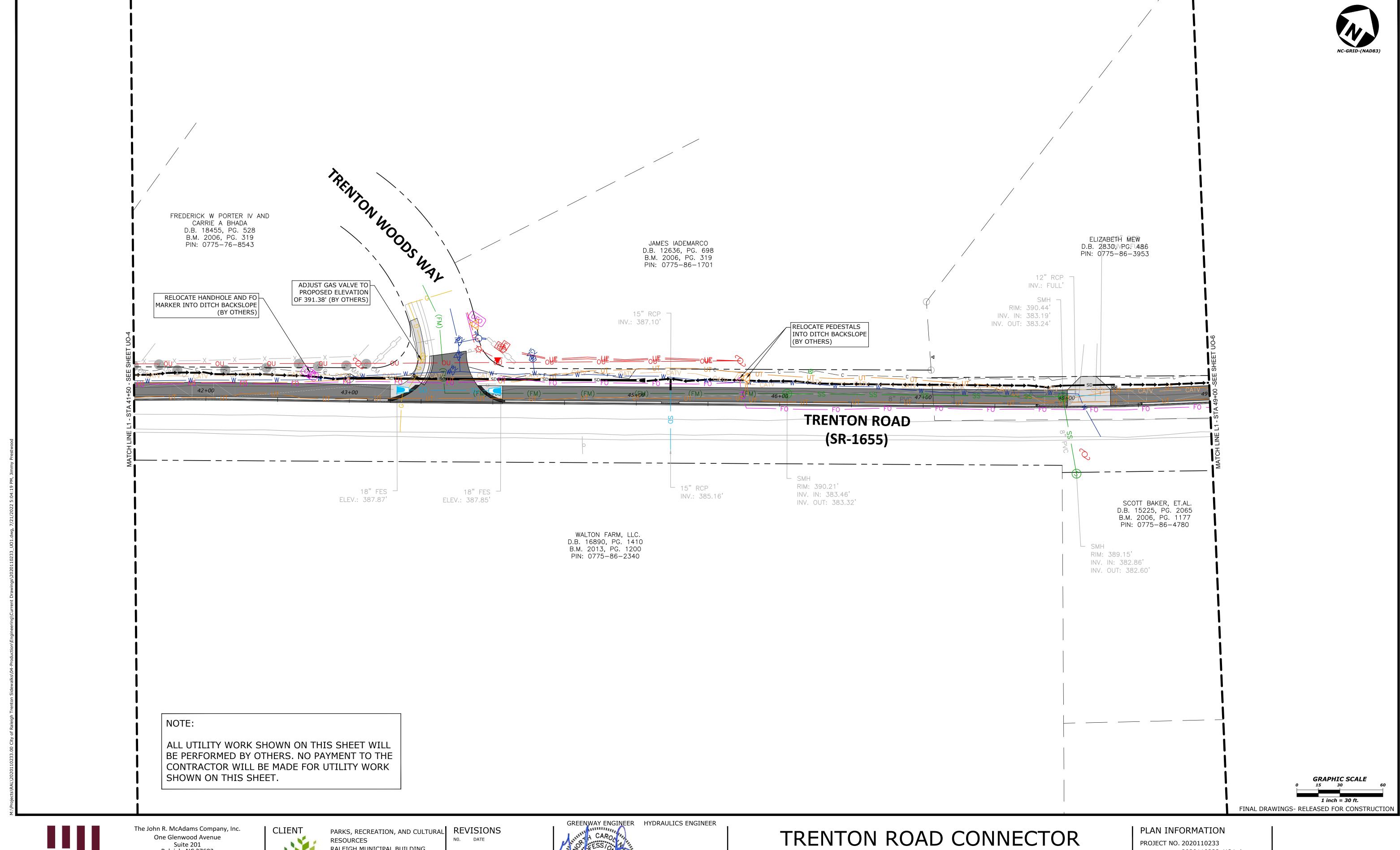


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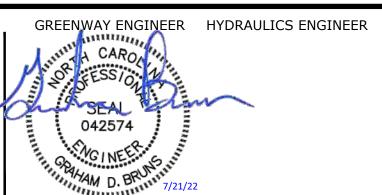
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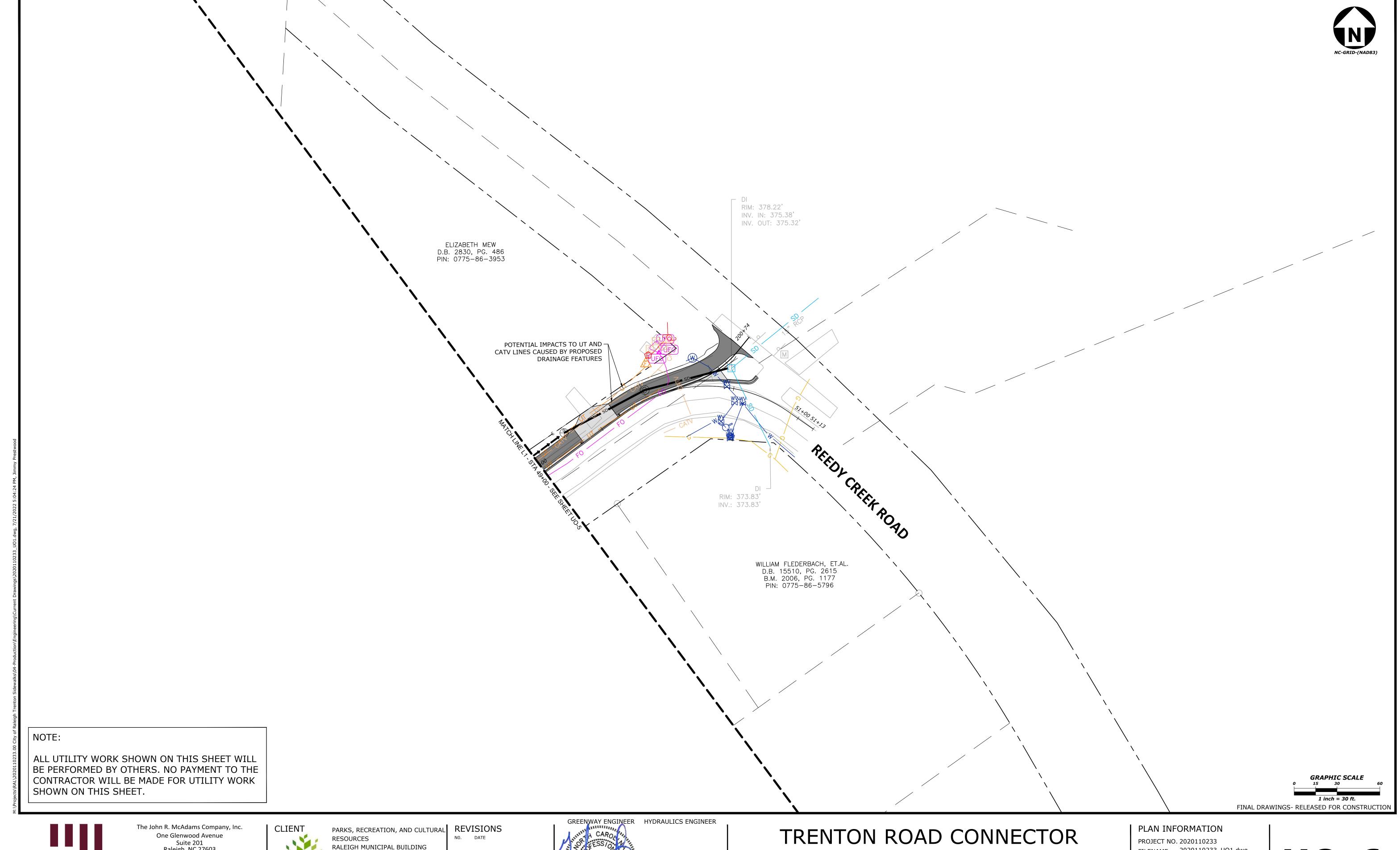


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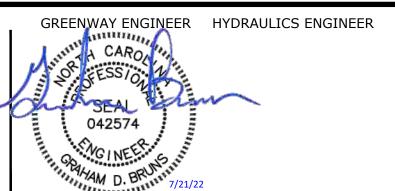
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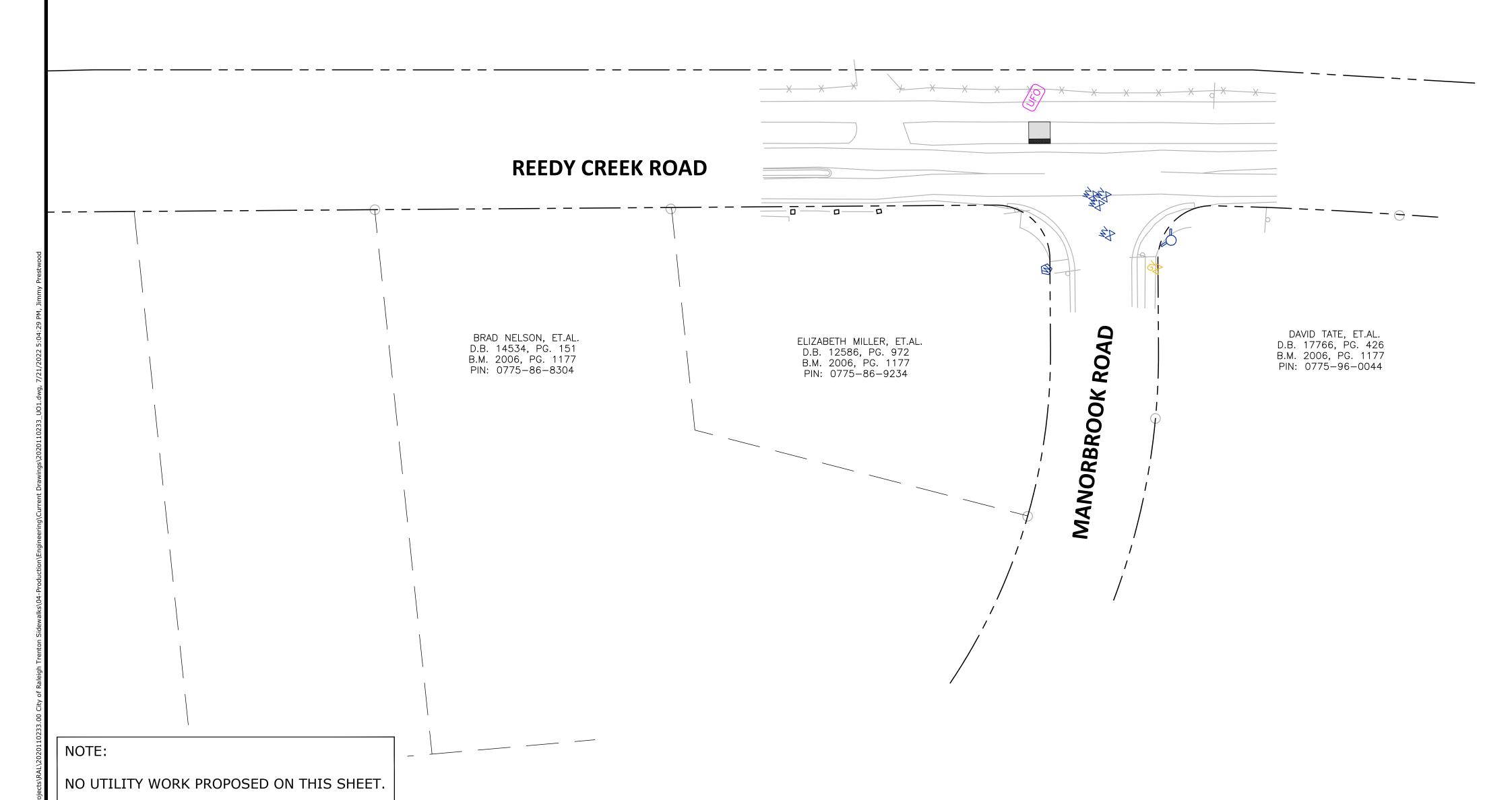
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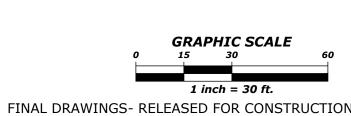
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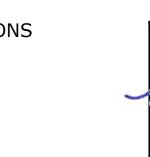
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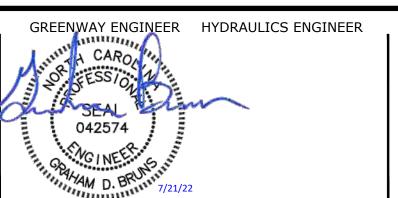
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 0
 5
 10
 PROJ. REFERENCE NO.
 SHEET NO.

 2020110233
 X-1A

TRENTON ROAD CONNECTOR

CROSS-SECTION INDEX

| LINE | STATION | STATION | SHEET NO. |
|------|----------|----------|-----------|
| L1 | 13+25.00 | 17+00.00 | X-1 |
| L1 | 17+25.00 | 21+00.00 | X-2 |
| L1 | 21+25.00 | 26+00.00 | X-3 |
| L1 | 26+25.00 | 30+00.00 | X-4 |
| L1 | 30+25.00 | 34+00.00 | X-5 |
| L1 | 34+25.00 | 38+00.00 | X-6 |
| L1 | 38+25.00 | 42+00.00 | X-7 |
| L1 | 42+25.00 | 46+00.00 | X-8 |
| L1 | 46+25.00 | 50+00.00 | X-9 |
| L1 | 50+25.00 | 51+00.00 | X-10 |

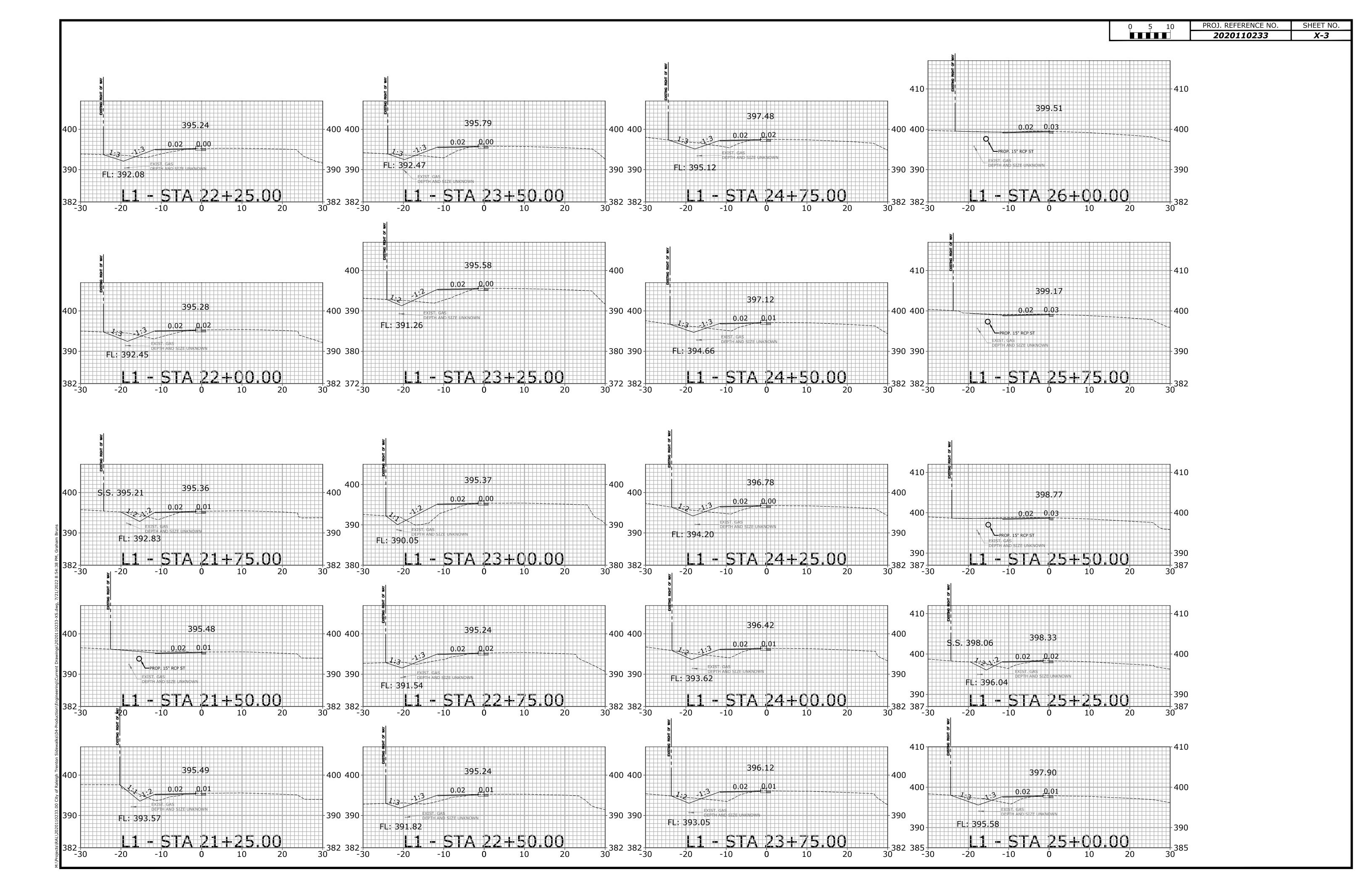
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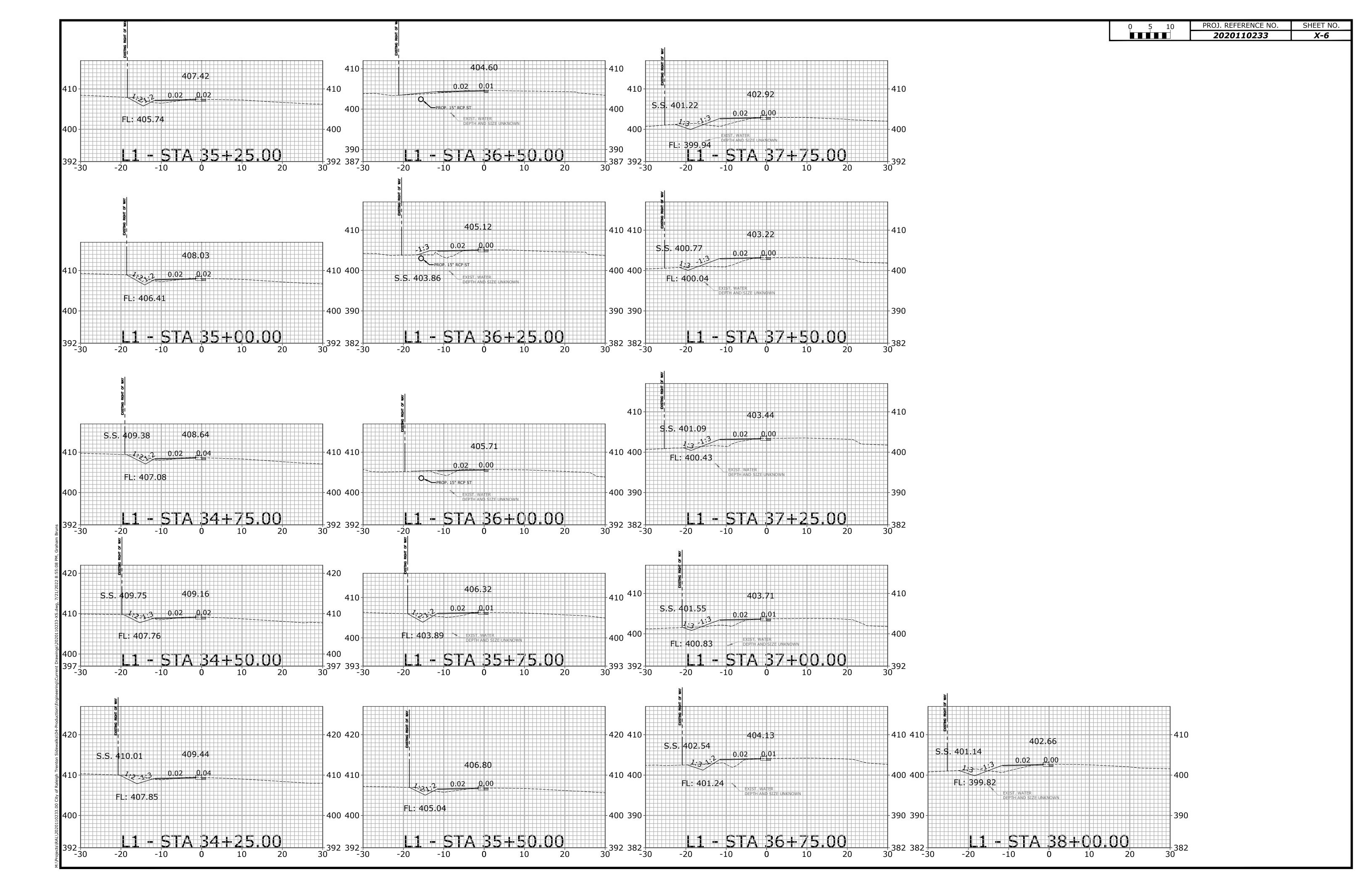
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410

400

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