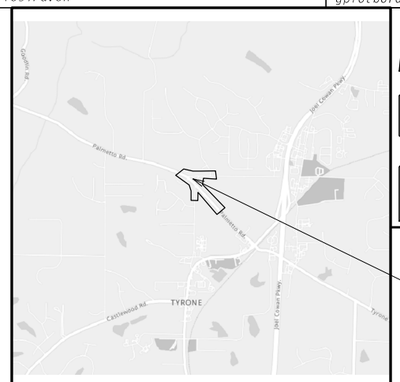
11/13/2024	GPLOT-ORD	1210771_1.dgn	PROJECT NUMBER
Carlos.Pavon	gplotborder-ORD-PO.tbl	CONCOV	PW-2021-13-04

TOWN OF TYRONE
ENGINEERING AND PUBLIC WORKS

PALMETTO ROAD AT ARROWOOD ROAD/SPENCER LANE ROUNDABOUT

PROJECT NUMBER: PW-2021-13-04
FAYETTE COUNTY



PROJECT LOCATION

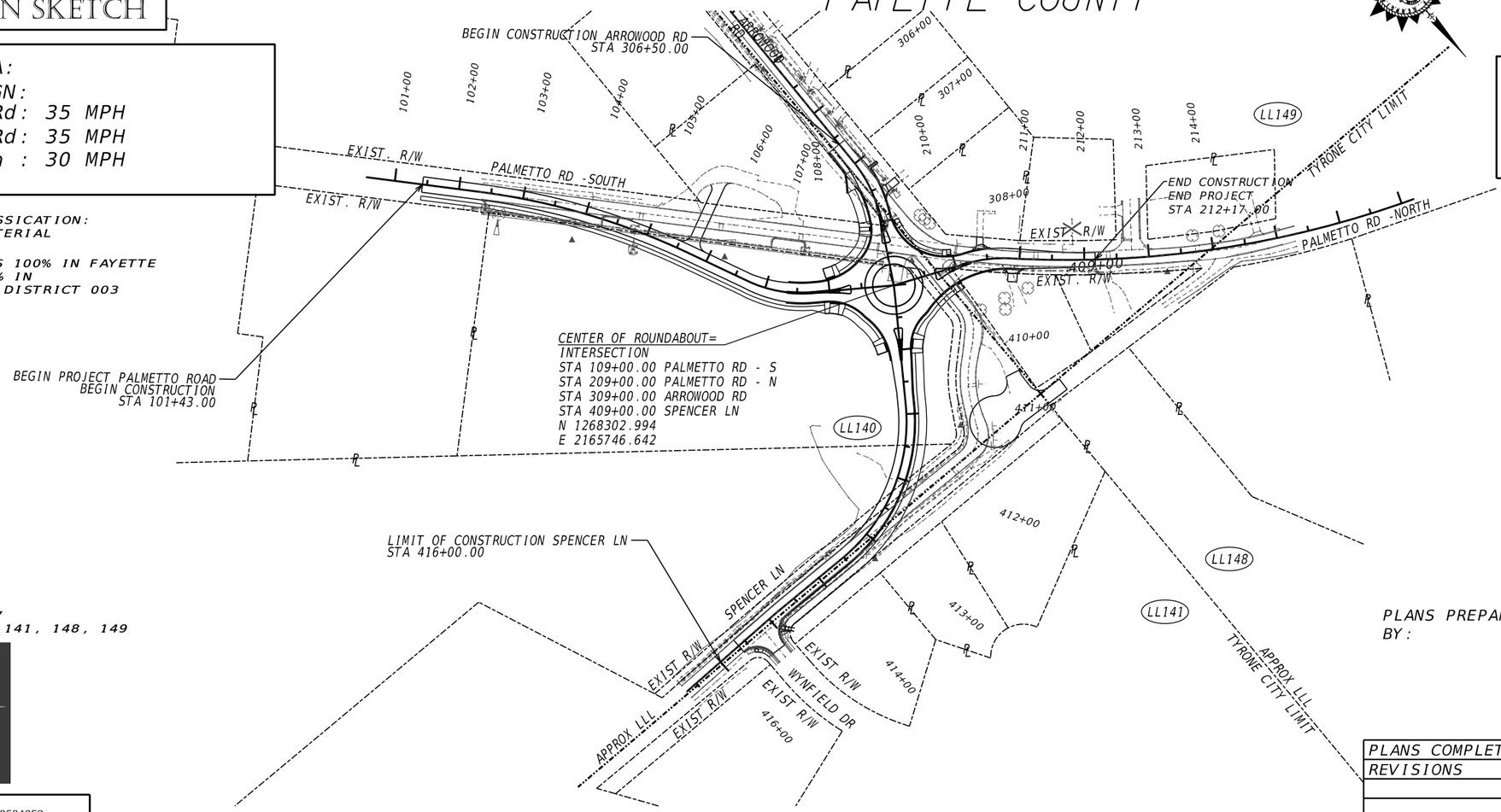
LOCATION SKETCH

DESIGN DATA:
SPEED DESIGN:
- *Palmetto Rd: 35 MPH*
- *Arrowood Rd: 35 MPH*
- *Spencer Ln : 30 MPH*

FUNCTIONAL CLASSICATION:
RURAL MINOR ARTERIAL

THIS PROJECT IS 100% IN FAYETTE COUNTY AND 100% IN CONGREESSIONAL DISTRICT 003

GMD 549
LAND DISTRICT 7
LAND LOTS 140, 141, 148, 149



NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO " STATE HIGHWAY DEPARTMENT OF GEORGIA ", " STATE HIGHWAY DEPARTMENT ", " GEORGIA STATE HIGHWAY DEPARTMENT ", " HIGHWAY DEPARTMENT ", OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

POND
3500 Parkway Lane
Suite 500
Peachtree Corners, Ga. 30092
Phone 678-336-7740
Fax 678-336-7744
Web www.pondco.com

PLANS PREPARED BY :

DESIGN

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

LENGTH OF PROJECT	*COUNTY No.113 Project No. PW-2021-13-04*
	MILES
NET LENGTH OF ROADWAY	*0.203*
NET LENGTH OF BRIDGES	*0.000*
NET LENGTH OF PROJECT	*0.203*
NET LENGTH OF EXCEPTIONS	*0.000*
GROSS LENGTH OF PROJECT	*0.203*

SCALE IN FEET
0 100 200 400

PLANS COMPLETED 11-12-2024	
REVISIONS	

DRAWING No.
01-0001

8/19/2019

THE DRAWINGS AS LISTED BELOW
HAVE BEEN SIGNED AND SEALED BY

ARWIN T. LOPEZ, PE
PE No 038279

POND & COMPANY
3500 PARKWAY LANE, STE 500
PEACHTREE CORNERS, GA 30092
CERTIFICATE OF AUTHORIZATION #:PEF000802
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE:6/30/2026

2024.11.12

DRAWING No.	DRAWING DESCRIPTION
01-0001	COVER SHEET
01-0002	SIGNATURE SHEET
02-0001 - 02-0002	INDEX SHEET
03-0001	REVISION SUMMARY DRAWING
04-0001	GENERAL NOTES
05-0001 - 05-0006	TYPICAL SECTIONS
06-0001 - 06-0003	SUMMARY OF QUANTITIES
08-0001	QUANTITIES REQUIRED ON CONSTRUCITON DRAWING
13-0001 - 13-0007	MAINLINE PLAN DRAWINGS
15-0001 - 15-0002	MAINLINE PROFILE DRAWINGS
16-0001 - 16-0002	CROSSROAD PROFILE DRAWINGS
17-0001	DRIVEWAY PROFILE DRAWINGS
18-0001 - 18-0003	SPECIAL GRADING DRAWINGS
19-0001 - 19-0003	CONSTRUCTION STAGING PLAN/CROSS SECTION DRAWINGS
22-0001 - 22-0002	DRAINAGE PROFILES
23-0001 - 23-0009	CROSS SECTIONS
24-0001 - 24-0007	UTILITY PLANS
26-0001 - 26-0008	SIGNING AND MARKING PLANS AND DETAILS
38-0001 - 38-0002	SPECIAL CONSTRUCTION DETAILS

NOTE: DRAWINGS IN SECTIONS 40, 41, 52, AND 56 ARE GDOT STANDARDS AND DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL. DRAWINGS IN SECTION 38 CONTAIN GDOT SPECIAL DESIGN DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL UNLESS OTHERWISE LISTED IN THE ABOVE DRAWING LIST.

THE DRAWINGS AS LISTED BELOW
HAVE BEEN SIGNED AND SEALED BY

ZACHARY GREGORY PUCKETT, PE
PE No 042056

POND & COMPANY
3500 PARKWAY LANE, STE 500
PEACHTREE CORNERS, GA 30092
CERTIFICATE OF AUTHORIZATION #:PEF000802
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE:6/30/2026

2024.11.12

DRAWING No.	DRAWING DESCRIPTION
01-0002	SIGNATURE SHEET
27-0001 - 27-0004	SIGNAL PLANS
51-0001 - 51-0004	EROSION, SEDIMENTATION AND POLLUTION CONTROL GENERAL NOTES DRAWING
53-0001 - 53-0002	ESPCP DRAINAGE AREA MAP
54-0001 - 54-0021	CONSTRUCTION BMP LOCATION DETAILS
55-0001 - 55-0002	EROSION CONTROL WATERSHED MAP AND SITE MONITORING LOCATION

NOTE: DRAWINGS IN SECTIONS 40, 41, 52, AND 56 ARE GDOT STANDARDS AND DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL. DRAWINGS IN SECTION 38 CONTAIN GDOT SPECIAL DESIGN DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL UNLESS OTHERWISE LISTED IN THE ABOVE DRAWING LIST.

THE DRAWINGS AS LISTED BELOW
HAVE BEEN SIGNED AND SEALED BY

JOSEPH MICHAEL STITT, PE
PE No 037674

POND & COMPANY
3500 PARKWAY LANE, STE 500
PEACHTREE CORNERS, GA 30092
CERTIFICATE OF AUTHORIZATION #:PEF000802
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE:6/30/2026

2024.11.12

DRAWING No.	DRAWING DESCRIPTION
01-0002	SIGNATURE SHEET
25-0001 - 25-0013	LIGHTING PLANS

NOTE: DRAWINGS IN SECTIONS 40, 41, 52, AND 56 ARE GDOT STANDARDS AND DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL. DRAWINGS IN SECTION 38 CONTAIN GDOT SPECIAL DESIGN DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL UNLESS OTHERWISE LISTED IN THE ABOVE DRAWING LIST.

THE DRAWINGS AS LISTED BELOW
HAVE BEEN SIGNED AND SEALED BY

CODY ALAN OWENBY, PE
PE No 047343

POND & COMPANY
3500 PARKWAY LANE, STE 500
PEACHTREE CORNERS, GA 30092
CERTIFICATE OF AUTHORIZATION #:PEF000802
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE:6/30/2026

2024.11.12

DRAWING No.	DRAWING DESCRIPTION
01-0002	SIGNATURE SHEET
44-0001 - 44-0003	SANITARY SEWER FORCE MAIN RELOCATION

NOTE: DRAWINGS IN SECTIONS 40, 41, 52, AND 56 ARE GDOT STANDARDS AND DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL. DRAWINGS IN SECTION 38 CONTAIN GDOT SPECIAL DESIGN DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL UNLESS OTHERWISE LISTED IN THE ABOVE DRAWING LIST.

THE DRAWINGS AS LISTED BELOW
HAVE BEEN SIGNED AND SEALED BY

SYDNEY THOMPSON, PLA
PLA No 001801

POND & COMPANY
3500 PARKWAY LANE, STE 500
PEACHTREE CORNERS, GA 30092
CERTIFICATE OF AUTHORIZATION #:PEF000802
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE:6/30/2026

2024.11.12

DRAWING No.	DRAWING DESCRIPTION
01-0002	SIGNATURE SHEET
29-0001 - 29-0011	LANDSCAPING PLANS

NOTE: DRAWINGS IN SECTIONS 40, 41, 52, AND 56 ARE GDOT STANDARDS AND DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL. DRAWINGS IN SECTION 38 CONTAIN GDOT SPECIAL DESIGN DETAILS AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL UNLESS OTHERWISE LISTED IN THE ABOVE DRAWING LIST.

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

SIGNATURE SHEET
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
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VERIFIED:		DATE:		

GPLN-CE
11/05/2020

DRAWING NO.	DESCRIPTION	
01-0001 TO 01-0002	Cover Drawing & Signature Drawing	
02-0001 - 02-0002	Index Drawing	
03-0001	Revision Summary Drawing	
04-0001	General Notes/Project Notes	
05-0001 - 05-0006	Typical Sections	
06-0001 - 06-0003	Summary of Quantities	
08-0001	Quantities Required on Construction	
13-0001 - 13-0007	Mainline Roadway, Crossroad, Side Street, and Frontage Road Plan Drawings	
15-0001 - 15-0002	Mainline Roadway Profile Drawings	
16-0001 - 16-0002	Crossroad Profile	
17-0001	Driveway Profiles	
18-0001 - 18-0003	Special Grading	
19-0001 - 19-0003	Staging Plan Drawings	
22-0001 - 22-0002	Drainage Profiles	
23-0001 - 23-0009	Cross Sections	
24-0000 - 24-0007	Utility Plans	
25-0001 - 25-0013	Lighting Plans	
26-0001 - 26-0008	Signing and Marking Plans	
27-0001 - 27-0004	Signal Plans	
29-0001 - 29-0011	Landscaping Plans	
38-0001 - 38-0002	Special Construction Details	
44-0001 - 44-0003	Sanitary Sewer Force Main Relocation	
50-0001	Erosion Control Cover Drawing	
51-0001 - 51-0004	ESPC General Notes Drawing	
52-0001 - 52-0007	Erosion Control Legend and Uniform Codes	
53-0001 - 53-0002	ESPCP Drainage Area Map	
54-0001 - 54-0021	BMP Location Details	
55-0001 - 55-0002	Erosion Control Watershed Map-Site Monitoring	
56-0001 - 56-0010	Erosion Control Construction Standards and Details	
60-0001 - 60-0011	Right of Way Plans	

DRAWING NO.	DESCRIPTION	
Standard Drawings		Revision Date
1011ap	Precast Reinforced Concrete Manhole	6/1/1975
1019b	Drop Inlets Types V-1 and V-2	8/1/1999
1033dp	Precast Catch Basins (For use with 6'' or 8'' Precast Ht. curb and gutter)	9/1/1982
1120	Flared End Sections for Pipes.	6/9/2006
1122-3	Safety End Section (Concrete) (for Side Drain pipe-or Storm Drain Pipe Parallel to Mainline) (Sheet 3 of 3)	1/28/2005
1401	Pavement Patching Details (Storm Drain or Utility Installations by Open Cut Across Existing Pavement)	8/1/1999
9003	Federal Aid and State Project Markers; Right of Way Markers; County Line Marker	4/10/2006
9013	Concrete Spillways (Typical Use: Along Roadway at End of Curb)	2/1/1981
9031s	Median Drop Inlet (Precast or Built-in-Place) and Concrete Apron	6/30/1998
9032b	Concrete Curb and Gutter, Concrete Curbs, Concrete Medians	11/15/2011
9100	Traffic Control General Notes, Standard Legend, and Miscellaneous Details	3/30/2006
9102	Traffic Control Detail for Lane Closure on Two-Lane Highway	3/30/2006
Erosion Control Construction Details		Revision Date

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PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
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VERIFIED:		DATE:		

DRAWING NO.	DESCRIPTION	
Construction Details		Revision Date
A-1	Driveways With Tapered Entrances Concrete Valley Gutters	7/21/2011
A-2	Concrete Valley Gutter at Street Intersection 6	7/21/2011
A-3	This Detail Replaces Ga Standard 9031W: Special Details - Concrete Sidewalk Details Curb Cut (Wheelchair) Ramps	9/15/2016
A-4	Detectable Warning Surface Truncated Dome Size, Spacing and Alignment Requirements	6/18/2009
P-7	Pavement Edge Treatment Asphalt and Concrete Pavement	11/17/2011
RA-2	Roundabout Typical Section Asphaltic Concrete Circulatory Roadway	1/31/2012
T01	SIGN PLATES	1/1/2000
T02	DETAILS FOR TYPICAL FRAMING	3/1/2000
T03a	Type 7,8 and 9 SQUARE TUBE POST INSTALLATION DETAIL	7/1/2002
T03b	DETAILS OF SQUARE TUBE POST (BREAKAWAY SUPPORT)	7/1/2002
T05a	DETAILS OF REGULATORY SIGNS (SHEET 1 OF 2)	1/1/2003
T05b	DETAILS OF REGULATORY SIGNS (SHEET 2 OF 2)	1/1/2000
T05c	DETAILS OF WARNING SIGNS	1/1/2000
T09b	DETAILS OF TRUCK RESTRICTION SIGNS	2/1/2000
T11a	DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY	9/15/2016
T13a	DETAILS OF PAVEMENT MARKING WORDS (SHEET 1 OF 2)	9/15/2016
T14	DETAILS OF PAVEMENT MARKING HATCHING	11/21/2008
T15a	DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY	9/15/2016
T15c	DETAILS OF RAISED PAVEMENT MARKERS	9/22/2011

DRAWING NO.	DESCRIPTION	
Erosion Control Construction Details		Revision Date
D-19	Temporary Pipe Slope Drain With Drain Inlet	2/25/2000
D-20	Silt Control Gates for Structures Type - 1, 2, and 3	4/22/2016
D-22A	Temporary Sediment Basin (Sheet 1 of 2)	11/28/2018
D-22B	Temporary Sediment Basin (Sheet 2 of 2)	11/28/2018
D-24A	Temporary Silt Fence (Sheet 1 of 4)	1/19/2011
D-24B	Temporary Silt Fence Berm Ditch, Installation, Brush Barrier (Sheet 2 of 4)	1/19/2011
D-24C	Temporary Silt Fence J-Hooks, Inlet Sediment Traps (Sheet 3 of 4)	1/19/2011
D-24D	Temporary Silt Fence Fabric Check Dam (Sheet 4 of 4)	7/1/2015
D-35	Permanent Soil Reinforcing Mat (Turf Reinforcing Mat) Installation on ditches	1/19/2011
D-38	Examples of Diversion Channels	6/28/1993
D-40	Culvert Plugs	3/17/2008
D-41	Construction Exit	4/18/2018
D-42	Inlet Sediment Traps	5/7/2008
D-43	Rock Filter Dam	4/22/2016
D-44	Retrofitting Structure for Temporary Sediment Filter-Perforated Half-Round Pipe with Stone Filter	7/5/2018
D-45	Retrofitting Structure for Temporary Sediment Filter-Slotted Board Dam with Stone Filter	7/5/2018
D-46	Stone Filter Ring	7/5/2018
D-47	Typicial Diversion Across Road	5/7/2008
D-50	Stone Filter Berm	1/18/2018
D-52	Baled Straw	4/22/2016
D-53	Rock OutletTemporary Sediment Trap	4/22/2016
D-54	Sod Installation	4/22/2016
D-55A	RipRap Outlet Protection(Sheet 1 of 2)	4/22/2016
D-55B	RipRap Outlet Protection(Sheet 2 of 2)	4/22/2016
D-56	Stone RipRap and Sand Bag Temporary Check Dams	11/28/2018
D-7	Berm Ditches, Side Ditches, Surface Ditches	7/1/1980
D-8	Inlet Drainage Structure at Surface Ditches	5/1/1976

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PALMETTO ROAD AT ARROWOOD/SPENCER

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VERIFIED:		DATE:		

GPLN-CE
11/05/2020

DATE	DRAWING NO.	REVISION

DATE	DRAWING NO.	REVISION

TOWN OF
TYRONE
GEORGIA
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REVISION SUMMARY
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
03-0001

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION OF GEORGIA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES, 2021 (OR LATEST) EDITION AND SUPPLEMENTAL THERETO, AS PROVIDED BY THE FEDERAL HIGHWAY ADMINISTRATION.

2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON HIGHWAY PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON HIGHWAY PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY UNDER THIS REQUIREMENT. ALL UTILITY FACILITIES WHICH ARE IN CONFLICT WITH THE CONSTRUCTION AND ARE NOT COVERED AS SPECIFIC ITEMS IN THE DETAILED ESTIMATE ARE TO BE REMOVED OR RELOCATED BY OTHERS.

3. UTILITY WORK COORDINATION WILL BE REQUIRED AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUB-SECTION 105.06 OF THE GDOT STANDARD SPECIFICATIONS "COOPERATION WITH UTILITIES." CONTACT TOWN OF TYRONE DWR DIRECTLY.

4. THE FOLLOWING UTILITIES HAVE FACILITIES IN THE PROJECT AREA:

RUSSELL BROCK ATLANTA GAS LIGHT NEWNAN 470-366-6639	STEVE JONES LAMBERTS CABLE SPLICING CO LLC 678-794-1598
LATANYA BRUCE AT&T TELECOMMUNICATIONS B0415@ATT.COM	SCOTT LANGFORD TOWN OF TYRONE- SEWER 800-624-9675
RENAE HINES COMCAST COMMUNICATIONS 678-708-7112	DAVID DRAKE HC CABLE OPCO-CATV 770-713-3288
STEVE JONES COWETA FAYETTE EMC 678-423-6808	VERIZON BUSINESS (MCI FACILITIES) 800-624-9675
BEN MARTIN FAYETTE COUNTY WATER SYSTEM 770-320-6020	ALAN MCKENZIE NULINK/WOW FIBER

5. THE TOTAL EARTHWORK QUANTITY SHOWN ON THE PLANS IS FOR INFORMATION ONLY. THE TOWN OF TYRONE ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY. THE CONTRACTOR SHALL BID ON GRADING COMPLETE - LUMP SUM AND IT SHALL BE HIS RESPONSIBILITY TO DETERMINE THE ACTUAL EARTHWORK QUANTITY TO BE GRADED. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION IF THE CONTRACTOR RELIES ON THE QUANTITY SHOWN ON THE PLANS. CLEARING AND GRUBBING ON THIS PROJECT IS LIMITED TO THE ACTUAL CONSTRUCTION LIMITS UNLESS DIRECTED BY THE ENGINEER. COST FOR CLEARING AND GRUBBING SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE - LUMP SUM.

6. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED TO RETARD DUST. ALL COST FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE - LUMP SUM.

7. THE TOTAL AREA SHOWN ON THE PLANS FOR SODDING IS FOR INFORMATION ONLY. THE TOWN OF TYRONE ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY. THE CONTRACTOR SHALL BID ON SOD, PAY ITEM 700-9300, AND IT SHALL BE HIS RESPONSIBILITY TO DETERMINE THE ACTUAL AREA TO BE SODDED. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION IF THE CONTRACTOR RELIES ON THE AREA SHOWN ON THE PLANS.

8. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GADOT STANDARD SPECIFICATIONS.

9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL.

10. HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATE SYSTEM. SEE PLANS FOR LOCATIONS AND DESCRIPTIONS OF MONUMENTS USED.

11. WHERE WET SUBGRADE IS ENCOUNTERED AND IDENTIFIED BY THE ENGINEER, UNDERDRAIN PIPE WITH DRAINAGE AGGREGATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER TO AID IN DEWATERING THE SUBGRADE. COST WILL BE INCLUDED IN PAY ITEM 573-2006 UNDDR PIPE INCL DRAINAGE AGGR, 6 IN.

12. AGGREGATE SURFACE COURSE FOR TEMPORARY DRIVEWAYS, INCLUDING MATERIAL, HAUL AND PLACEMENT SHALL BE USED AT THE ENGINEER'S DIRECTION TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC THROUGH THE CONSTRUCTION AREA DURING INCLEMENT WEATHER. WHEN USED FOR THIS PURPOSE, SECTION 318 OF THE GADOT STANDARD SPECIFICATIONS IS MODIFIED TO PERMIT TRUCK DUMPING ON UNPREPARED WET, MUDDY SUBGRADE. SECTION 318 IS FURTHER MODIFIED TO PERMIT THE USE OF CRUSHER STONE AS DESCRIBED IN SECTION 318.02. THE CONTRACTOR WILL HAVE USE OF THE FOLLOWING MATERIALS:
    a. GRADED AGGREGATE, ARTICLE 815.2.01
    b. COURSE AGGREGATE: SIZE 467, ARTICLE 800.2.01
    c. STABALIZED AGGREGATE, TYPE I OR II, SECTION 803.2.01 OR 803.2.02
    d. CRUSHED STONE, ARTICLE 806.2.01

13. ALL DRIVEWAYS, WHERE ACCESS IS ALLOWED, SHALL BE PLACED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH RULES AND REGULATIONS FOR CONTROL AND PROTECTION OF GEORGIA DEPARTMENT OF TRANSPORTATION RIGHTS-OF-WAY. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE REPLACED, IN KIND, I.E., ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND ASPHALT SURFACE COURSE FOR EARTH. THE DRIVEWAY LOCATIONS INDICATED ON THE PLANS ARE FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS WHERE THEY ARE NOT IN CONFLICT WITH THE RULES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ENGINEER PRIOR TO MAKING ANY REVISIONS SUCH AS TO LOCATION, WIDTH AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. WHERE REQUIRED, THE DRIVES SHALL BE PAVED AS FOLLOWS:

    ASPHALTIC AND UNPAVED DRIVES SHALL BE PAVED TO THEIR CONSTRUCTION LIMITS.
    RESIDENTIAL - RECYCLED ASPHALTIC CONCRETE 9.5 MM SUPERPAVE, GP 2 ONLY, INCL. BITUM MAT'L & LIME - 1-1/2 INCH GRADED AGGREGATE BASE, 6 INCH

    COMMERCIAL - RECYCLED ASPHALTIC CONCRETE 9.5 MM SUPERPAVE, GP 2 ONLY, INCL. BITUM MAT'L & H. LIME - 1-1/2 INCH RECYCLED ASPHALTIC CONCRETE 19 MM SUPERPAVE, GP 1 OR 2, INCL. BITUM MAT'L & H. LIME - 2 INCH GRADED AGGREGATE BASE, 8 INCH

    CONCRETE DRIVES
    RESIDENTIAL - CONCRETE VALLEY GUTTER, 6 INCH; CONCRETE DRIVEWAY, 6 INCH

    COMMERCIAL - CONCRETE VALLEY GUTTER, 8 INCH; CONCRETE DRIVEWAY, 8 INCH

14. ALL EXISTING PIPE AND DRAINAGE STRUCTURES NO LONGER IN USE SHALL BE REMOVED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER. REMOVAL OF PIPE SHALL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE".

15. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REGULATION.

16. IN AREAS WHERE TYPE 2 CURB IS USED, DRAINAGE STRUCTURES 1033D AND 1034D WILL BE REQUIRED. IN AREAS WHERE TYPE 7 CURB IS USED, DRAINAGE STRUCTURES 1033G AND 1034G WILL BE REQUIRED.

17. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED BY THE ENGINEER TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE. THE COSTS FOR SAWED JOINTS, WHEN REQUIRED, SHALL BE INCLUDED IN PRICE BID FOR OTHER CONTRACT ITEMS, EXCEPT WHEN SAWING P.C.C. PAVEMENTS.

18. WHERE EXISTING PAVEMENT MARKINGS ARE IN CONFLICT WITH THE TRAFFIC PATTERN BEING USED ON CONSTRUCTION, THE CONTRACTOR SHALL REMOVE OR OVERLAY LINES TO THE SATISFACTION OF THE ENGINEER SUCH THAT THE LINES DO NOT CONFUSE THE TRAVELING PUBLIC. ALL REMAINING LINES OR MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, OR AS DIRECTED BY THE ENGINEER. TRAFFIC SHALL NOT BE ALLOWED ON ANY PAVEMENT NOT PROPERLY STRIPED.

19. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLES 104.05 AND 107.07 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND SEQUENCE OF OPERATIONS IN REGARDS TO MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.

20. PRICE BID FOR TRAFFIC CONTROL - LUMP SUM SHALL INCLUDE, BUT IS NOT LIMITED TO, CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY SIGNING AND PAVEMENT MARKINGS, BARRICADES, CHANNELIZING DEVICES, ETC. REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION. ALL TEMPORARY SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND/OR AS DIRECTED BY THE ENGINEER.

21. THIS PROJECT HAS A TOTAL AREA OF APPROXIMATELY 5.73 ACRES AND THE EXPECTED DISTURBED AREA IS 5.38 ACRES. A NOTICE OF INTENT (NOI) IS REQUIRED FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR NOTICE OF TERMINATION (NOT), AND WATER SAMPLING.

22. ALL CUT AND FILL SLOPES SHALL BE GRASSED AS DIRECTED BY THE ENGINEER IMMEDIATELY AFTER THE SLOPES ARE ESTABLISHED IN ORDER TO REDUCE EROSION. IF THE SEASON DOES NOT PERMIT GRASSING, TEMPORARY MULCH SHALL BE USED AS DIRECTED BY THE ENGINEER. REFER TO SECTION 161 OF THE STANDARD SPECIFICATIONS.

23. THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.

24. TEMPORARY EROSION CONTROL QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY.

25. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION OR AS DIRECTED BY THE ENGINEER.

26. ALL SILT FENCES MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT FENCE INSTALLATION IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SILT FENCES AND TO REPAIR OR REPLACE ANY SILT FENCE THAT IS NOT SATISFACTORY. ALL EROSION CONTROL DEVICES SHALL BE PLACED ACCORDING TO THE PLANS AND AS DIRECTED BY THE ENGINEER. SEE GADOT STANDARD SPECIFICATION,AND THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL, 2016 EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING WETLAND AREAS FREE FROM SILTATION. THE CONTRACTOR SHALL OBTAIN AND ABIDE BY ALL CORPS OF ENGINEERS RULES AND REGULATIONS CONCERNING CONSTRUCTION ADJACENT TO WATERWAYS AND MAINTAIN WATER QUALITY.

27. CONSTRUCTION LAYOUT WILL BE REQUIRED BY THE CONTRACTOR. ALL COST FOR THIS ITEM WILL BE INCLUDED IN THE PRICE BID FOR OTHER CONTRACT ITEMS.

28. CONCRETE APRON ASSOCIATED WITH 9031S DROP INLETS MAY BE OMITTED AT ENGINEER'S DISCRETION.

29. CONTRACTOR IS RESPONSIBLE FOR PRE-MARKING ALL SIGNING, STRIPING, GUARDRAIL, HANDICAP RAMPS AND DRIVEWAY LAYOUTS. CONTRACTOR SHALL NOTIFY THE TOWN OF TYRONE A MINIMUM OF 72 HOURS AFTER PRE-MARKING FOR A REVIEW PRIOR TO PLACING PAVEMENT MARKING, SIGNS, GUARDRAIL, HANDICAP RAMPS AND DRIVEWAYS. THE CONTRACTOR SHALL COORDINATE THIS ACTION WITH THE PROJECT ENGINEER.

30. TYPE OF SOD USED IN THIS PROJECT WILL BE REQUIRED TO MATCH ANY TYPE OF SOD WHICH MAY BE PLANTED AND GROWING ON THE ADJACENT LAWN. I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA ETC. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.

31. PRICE TO SOD ENTIRE PROJECT DISTURBED AREA TO BE INCLUDED IN SOD PAY ITEM 700-9300. SEE SHEET 06-0003 REGARDING BID ALTERNATE #1 - HYDROSEED. PAY ITEM 702-0196.

32. LIMB EXISTING TREES TO PROVIDE 8 FEET OF CLEARANCE FOR SIDEWALKS. PAYMENT SHALL BE INCLUDED IN PAY ITEM 210-0100 GRADING COMPLETE.

33. THE CONTRACTOR IS REQUIRED TO MAINTIAN VEHICLE DETECTION WITHOUT INTERRUPTION FOR ALL TRAFFIC SIGNAL PHASES DURING CONSTRUCTION OF THE PROJECT. ALL LOOPS REMOVED OR DAMAGED DURING CONSTRUCTION ARE TO BE REPLACED BY THE CONTRACTOR AT NO COST TO THE TOWN OF TYRONE.

34. ALL CONSTRUCTION SHALL COMPLY WITH GDOT STANDARDS.

35. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING A TRAFFIC CONTROL PLAN SHOWING THE PROPOSED MEASURES TO MANAGE TRAFFIC DURING CONSTRUCTION ACTIVITIES. THE PLAN SHALL CONFORM TO THE 2009 (OR LATEST VERSION) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND GEORGIA DOT SPECIFICATION 150. ANY LANE CLOSURES ON STATE ROUTES MUST BE APPROVED BY AND COORDINATED WITH THE GEORGIA DOT AREA ENGINEER. LANE CLOSURES WILL REQUIRE PROPER LANE TAPERS AND ADVANCE WARNINGS PER GEORGIA DOT STANDARDS.

36. ALL SIGNING, MARKING, AND TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 (OR LATEST) EDITION.

37. ALL WHEELCHAIR RAMPS WITHIN THE CURB RETURN RADIUS OF ANY DRIVEWAY OR SIDESTREET WILL BE 8 INCH CONCRETE. USE PAY ITEM 441-0108.

38. ALL SHORING, TEMPORARY OR PERMANENT, WILL BE CONSIDERED INCIDENTAL TO GRADING COMPLETE AND WILL NOT BE MEASURED FOR PAYMENT.

39. LIMB EXISTING TREES TO PROVIDE 8' OF CLEARANCE FOR SIDEWALK. PAYMENT SHALL BE INCLUDED IN GRADING COMPLETE 210-0100 LUMP SUM.

TOWN OF TYRONE - GEORGIA - EST. 1911

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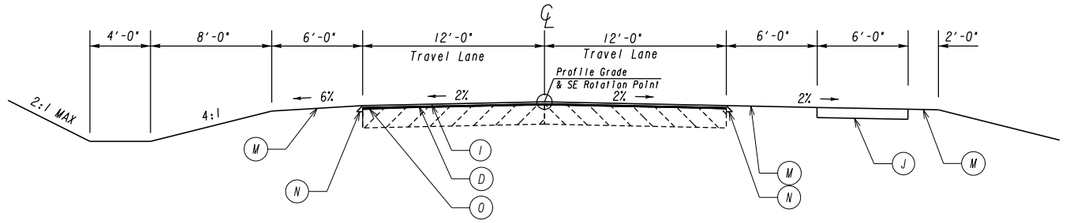
REVISION DATES

GENERAL NOTES
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		04-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

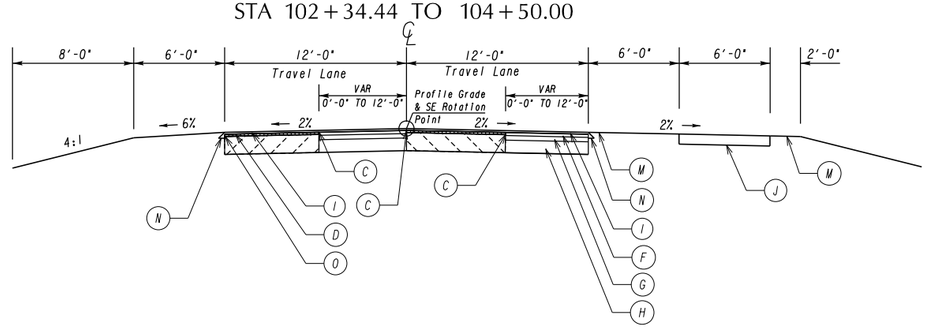
TS01

PALMETTO RD – SOUTH
STA 101+43.00 TO 102+34.44



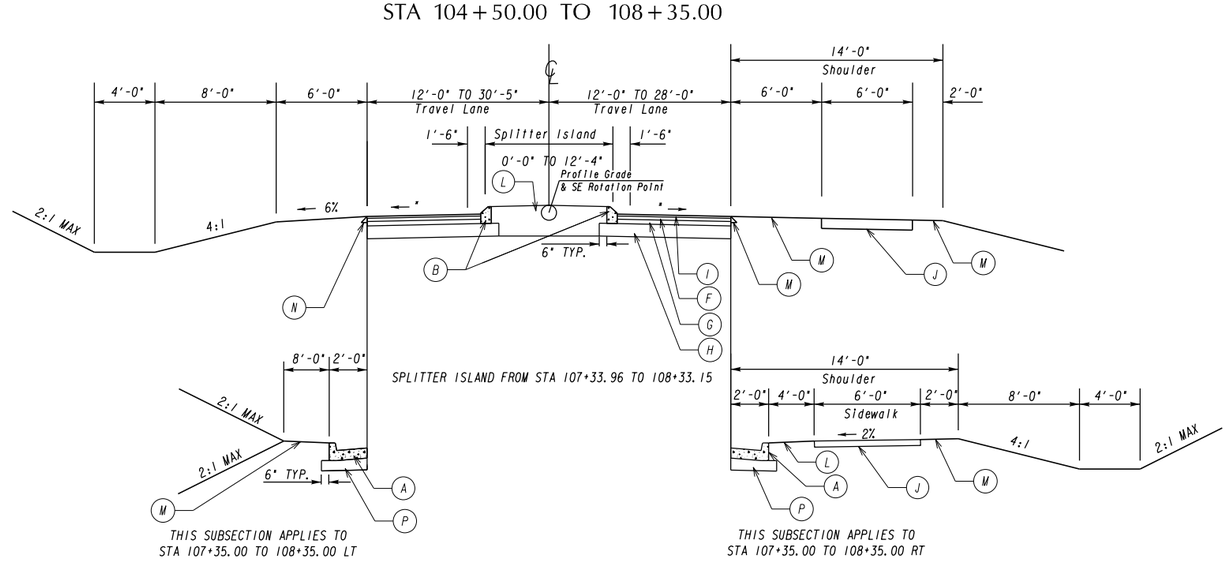
TS02

PALMETTO RD – SOUTH
STA 102+34.44 TO 104+50.00



TS03

PALMETTO RD – SOUTH
STA 104+50.00 TO 108+35.00



(A) - 6" X 24" CONC. CURB & GUTTER, TP 2, GA. STD. 9032B
(B) - 6" CONC HEADER CURB, TP 7, GA. STD. 9032B
(C) - PAVEMENT REINFORCING FABRIC (SEE DETAIL ON LAST 5 SERIES SHEET)
(D) - MILL ASPH CONC PVMT 1.5 INCH DEPTH
(E) - RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
(F) - RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME - 220 LBS/SY, 2.0 IN DEPTH
(G) - RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME - 330 LBS/SY, 3.0 IN DEPTH
(H) - GR AGGR BASE CRS, INCL MATL - 12 INCH DEPTH
(I) - RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
(J) - CONCRETE SIDEWALK, 4 IN
(K) - CONCRETE SIDEWALK, 8 IN
(L) - COBBLESTONE/LANDSCAPE STRIP (SEE 29 SERIES)
(M) - SOD
(N) - SAFETY EDGE, GDOT CONST DETAIL P-7
(O) - RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME, AS REQD
(P) - GR AGGR BASE CRS, INCL MATL - 6 INCH DEPTH
(R) - 4" CONC HEADER CURB, TP 9, GA. STD. 9032B

* SEE 18 SERIES DRAWINGS FOR CROSS SLOPES

TOWN OF TYRONE - GEORGIA - EST. 1911

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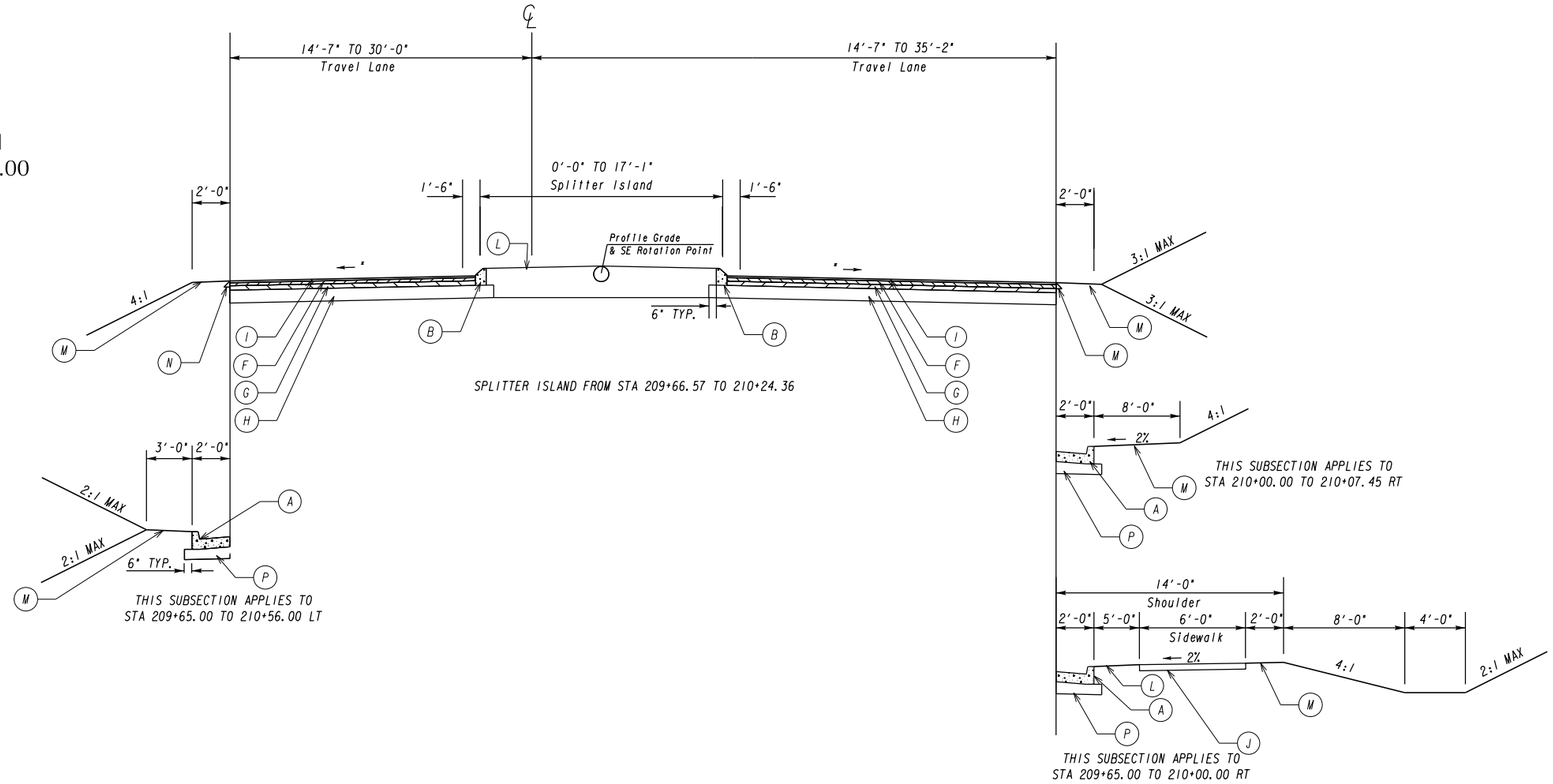
REVISION DATES

TYPICAL SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		05-0001
VERIFIED:		DATE:		

TS04

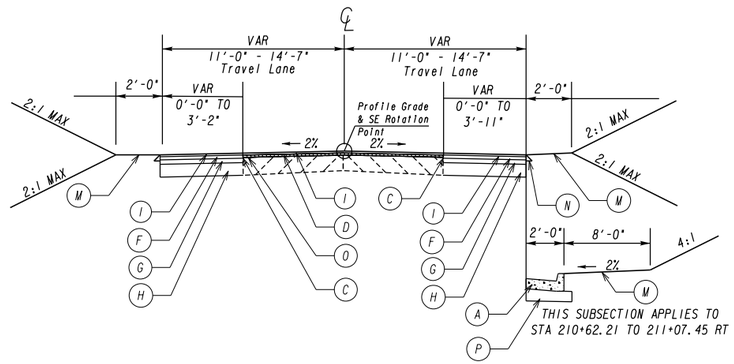
PALMETTO RD – NORTH
STA 209+65.00 TO 211+10.00



- (A) - 6" X 24" CONC. CURB & GUTTER, TP 2, GA. STD. 9032B
- (B) - 6" CONC HEADER CURB, TP 7, GA. STD. 9032B
- (C) - PAVEMENT REINFORCING FABRIC (SEE DETAIL ON LAST 5 SERIES SHEET)
- (D) - MILL ASPH CONC PVMT 1.5 INCH DEPTH
- (E) - RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
- (F) - RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME - 220 LBS/SY, 2.0 IN DEPTH
- (G) - RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME - 330 LBS/SY, 3.0 IN DEPTH
- (H) - GR AGGR BASE CRS, INCL MATL - 12 INCH DEPTH
- (I) - RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
- (J) - CONCRETE SIDEWALK, 4 IN
- (K) - CONCRETE SIDEWALK, 8 IN
- (L) - COBBLESTONE/LANDSCAPE STRIP (SEE 29 SERIES)
- (M) - SOD
- (N) - SAFETY EDGE, GDOT CONST DETAIL P-7
- (O) - RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME, AS REQD
- (P) - GR AGGR BASE CRS, INCL MATL - 6 INCH DEPTH
- (R) - 4" CONC HEADER CURB, TP 9, GA. STD. 9032B

TS05

PALMETTO RD – NORTH
STA 211+10.00 TO 212+17.00



* SEE 18 SERIES DRAWINGS FOR CROSS SLOPES

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

TYPICAL SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

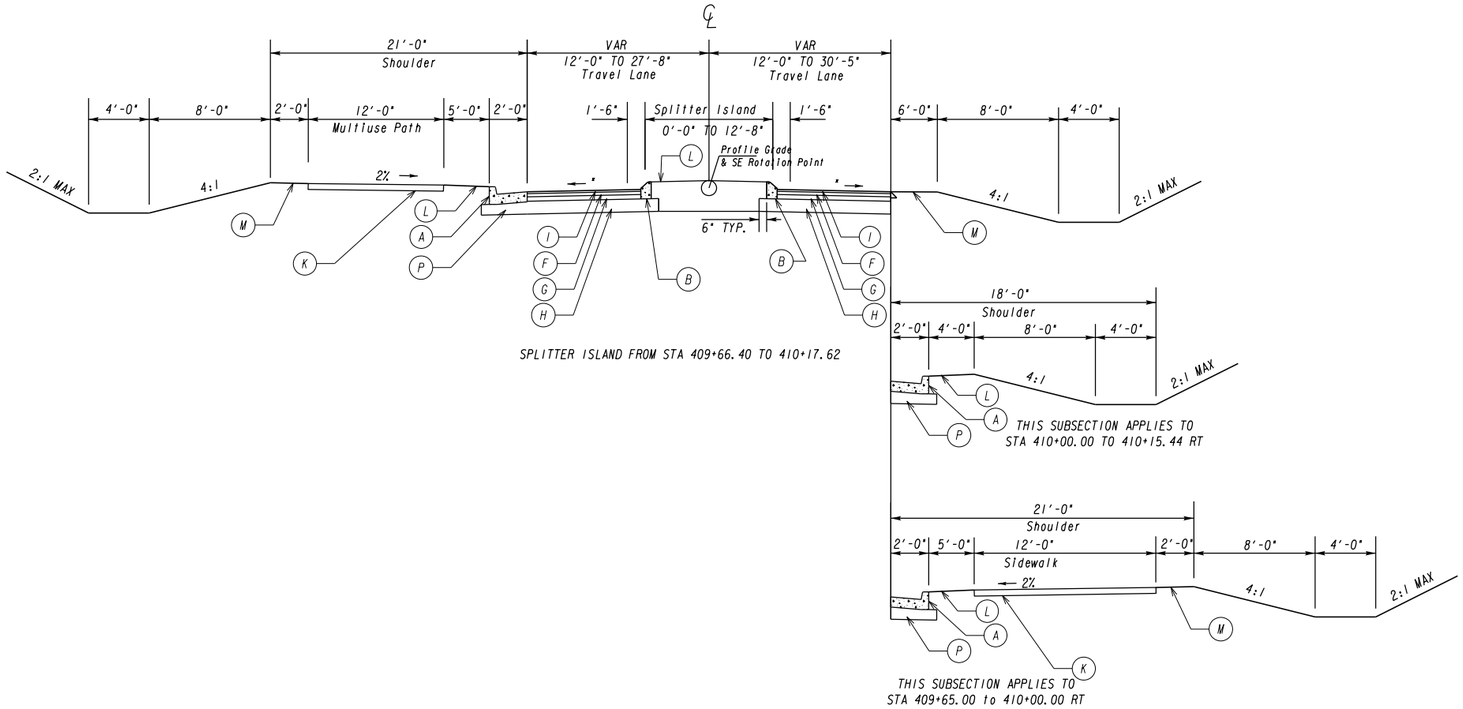
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		05-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLN-CE
11/05/2020

PROJECT NUMBER
PW-2021-13-04

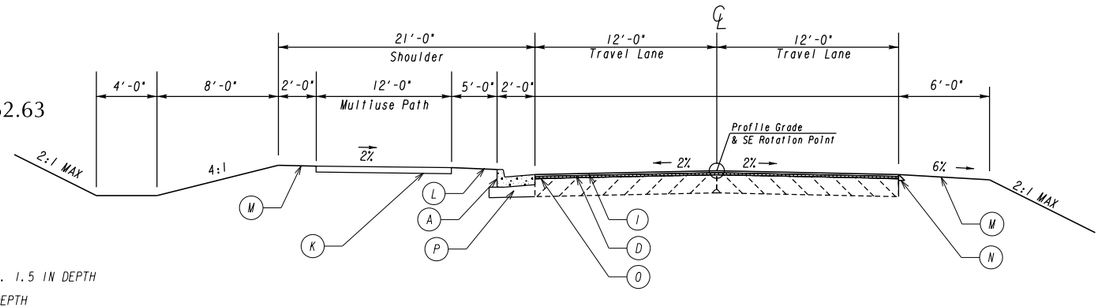
TS06

SPENCER LN
STA 409+65.00 TO 413+52.98



TS07

SPENCER LN
STA 413+52.98 TO 415+62.63



- (A) - 6" X 24" CONC. CURB & GUTTER, TP 2, GA. STD. 9032B
- (B) - 6" CONC HEADER CURB, TP 7, GA. STD. 9032B
- (C) - PAVEMENT REINFORCING FABRIC (SEE DETAIL ON LAST 5 SERIES SHEET)
- (D) - MILL ASPH CONC PVMT 1.5 INCH DEPTH
- (E) - RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
- (F) - RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME - 220 LBS/SY, 2.0 IN DEPTH
- (G) - RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME - 330 LBS/SY, 3.0 IN DEPTH
- (H) - GR AGGR BASE CRS, INCL MATL - 12 INCH DEPTH
- (I) - RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
- (J) - CONCRETE SIDEWALK, 4 IN
- (K) - CONCRETE SIDEWALK, 8 IN
- (L) - COBBLESTONE/LANDSCAPE STRIP (SEE 29 SERIES)
- (M) - SOD
- (N) - SAFETY EDGE, GDOT CONST DETAIL P-7
- (O) - RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME, AS REQD
- (P) - GR AGGR BASE CRS, INCL MATL - 6 INCH DEPTH
- (R) - 4" CONC HEADER CURB, TP 9, GA. STD. 9032B

* SEE 18 SERIES DRAWINGS FOR CROSS SLOPES

TOWN OF TYRONE - GEORGIA - EST. 1911

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TYPICAL SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

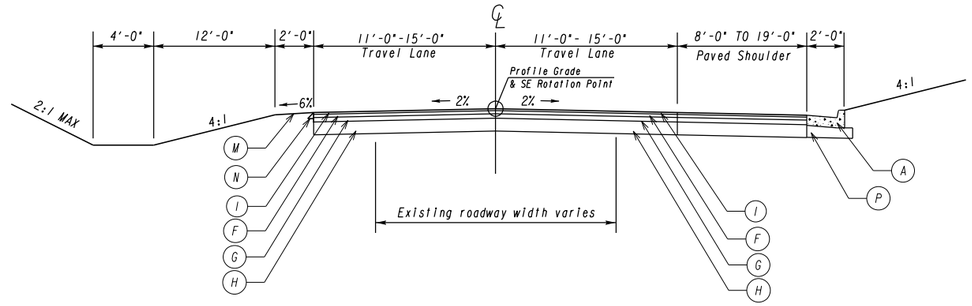
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		05-0003
VERIFIED:		DATE:		

GPLN-CE
11/05/2020

TS08

ARROWOOD DR

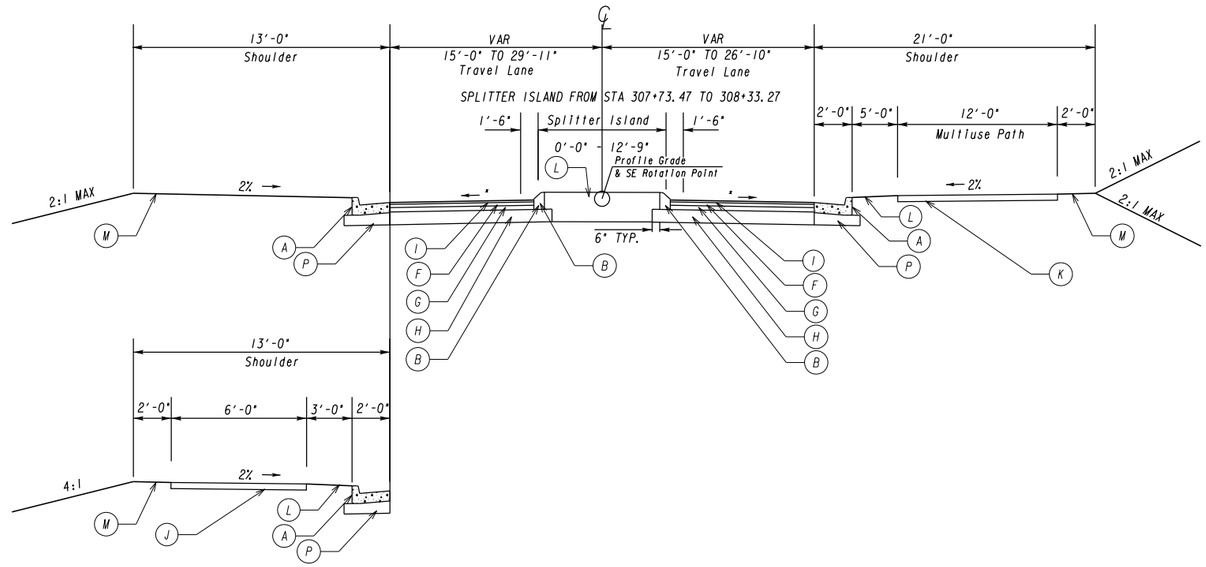
STA 306+62.00 TO 307+35.00



TS09

ARROWOOD DR

STA 307+35.00 TO 308+35.00



THIS SUBSECTION APPLIES TO
STA 308+00.00 TO 308+35.00 LT

(A) - 6" X 24" CONC. CURB & GUTTER, TP 2, GA. STD. 9032B
(B) - 6" CONC HEADER CURB, TP 7, GA. STD. 9032B
(C) - PAVEMENT REINFORCING FABRIC (SEE DETAIL ON LAST 5 SERIES SHEET)
(D) - MILL ASPH CONC PVMT 1.5 INCH DEPTH
(E) - RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
(F) - RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME - 220 LBS/SY, 2.0 IN DEPTH
(G) - RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME - 330 LBS/SY, 3.0 IN DEPTH
(H) - GR AGGR BASE CRS, INCL MATL - 12 INCH DEPTH
(I) - RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
(J) - CONCRETE SIDEWALK, 4 IN
(K) - CONCRETE SIDEWALK, 8 IN
(L) - COBBLESTONE/LANDSCAPE STRIP (SEE 29 SERIES)
(M) - SOD
(N) - SAFETY EDGE, GDOT CONST DETAIL P-7
(O) - RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME, AS REQD
(P) - GR AGGR BASE CRS, INCL MATL - 6 INCH DEPTH
(R) - 4" CONC HEADER CURB, TP 9, GA. STD. 9032B

* SEE 18 SERIES DRAWINGS FOR CROSS SLOPES

TOWN OF TYRONE - GEORGIA - EST. 1911

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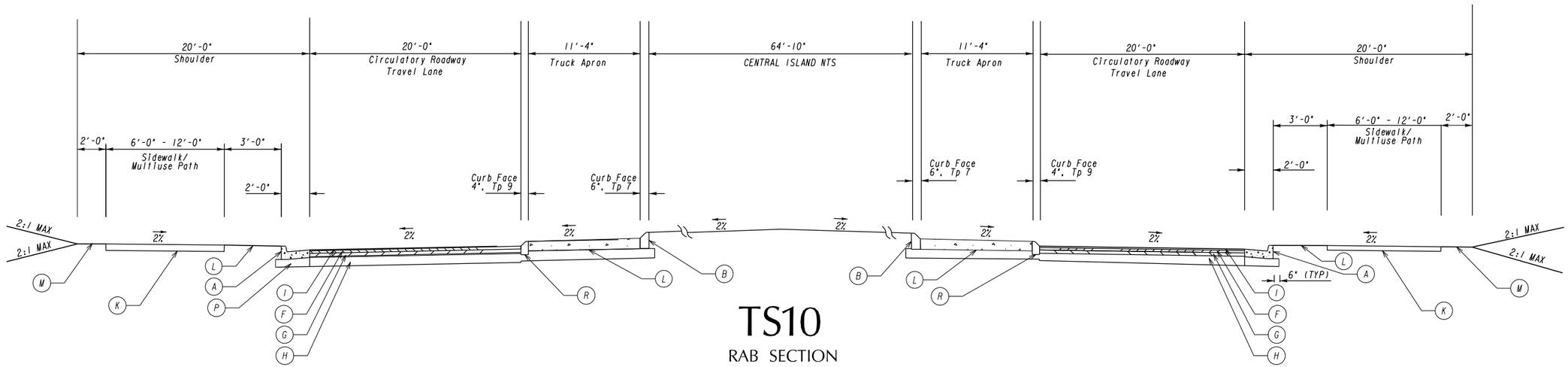
REVISION DATES

TYPICAL SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		05-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLM-CE
11/05/2020



TS10

RAB SECTION
ARROWOOD RD AT PALMETTO RD
STA 108+35.00 TO 109+00.00, STA 209+00.00 TO 209+65.00

(A) - 6" X 24" CONC. CURB & GUTTER, TP 2, GA. STD. 9032B
(B) - 6" CONC HEADER CURB, TP 7, GA. STD. 9032B
(C) - PAVEMENT REINFORCING FABRIC (SEE DETAIL ON LAST 5 SERIES SHEET)
(D) - MILL ASPH CONC PVMT 1.5 INCH DEPTH
(E) - RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
(F) - RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME - 220 LBS/SY, 2.0 IN DEPTH
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(H) - GR AGGR BASE CRS, INCL MATL - 12 INCH DEPTH
(I) - RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME - 165 LBS/SY, 1.5 IN DEPTH
(J) - CONCRETE SIDEWALK, 4 IN
(K) - CONCRETE SIDEWALK, 8 IN
(L) - COBBLESTONE/LANDSCAPE STRIP (SEE 29 SERIES)
(M) - SOD
(N) - SAFETY EDGE, GDOT CONST DETAIL P-7
(O) - RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME, AS REQD
(P) - GR AGGR BASE CRS, INCL MATL - 6 INCH DEPTH
(R) - 4" CONC HEADER CURB, TP 9, GA. STD. 9032B

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

TYPICAL SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

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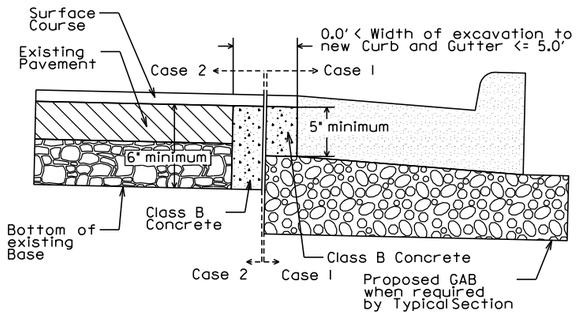
VERIFIED:		DATE:	

DRAWING No.
05-0005



NO SCALE

CLASS "B" CONCRETE BASE FOR PAVEMENT WIDENING

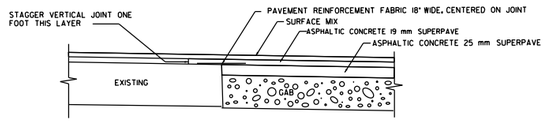
Item Code 500-9999 - CY Unit of Measure

Case 1:
Where GAB is required under the new Curb and Gutter and the depth of proposed paving between the top of the GAB and the bottom of the surface course is 5 inches or greater, Class B concrete shall be placed in lieu of the paving between the GAB and surface courses specified by the typical section.

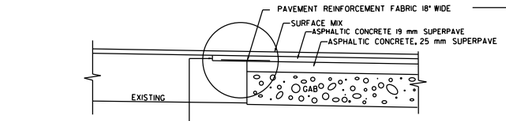
Case 2:
Where GAB is not required under the new Curb and Gutter and/or the depth of proposed paving between the top of the Base and the bottom of the surface course is less than 5 inches, Class B concrete shall be placed beneath the proposed surface course to the depth of either the bottom of the existing base course, the bottom of the Base specified by the typical section, or to a depth of 6 inches: whichever is greater.

CLASS "B" CONCRETE BASE FOR WIDENING DETAIL

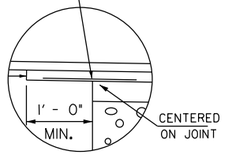
TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH TWO INCHES OR MORE OF ASPHALTIC CONCRETE



TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE



MILL EXISTING LANE ONE FOOT WIDE TO DEPTH OF ADJOINING LAYER TO BE PLACED. COST OF MILLING FOR THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR PAVEMENT REINFORCING FABRIC.



PAVEMENT REINFORCING FABRIC DETAIL

NO SCALE

ALLOWABLE RANGES TABLE

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

A. NORMAL CROWN

SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
0.0150 FT/FT - MINIMUM	0.0156 FT/FT - MINIMUM
0.0208 FT/FT - DESIRABLE	0.0208 FT/FT - DESIRABLE
0.0250 FT/FT - MAXIMUM	0.0300 FT/FT - MAXIMUM

B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

	RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM	1:150	0.67%
DESIRABLE	1:200	0.50%
MAXIMUM	1:300	0.33%

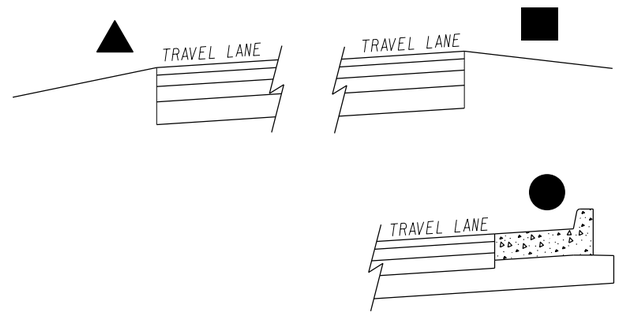
LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

50% OF TRANSITION INSIDE CURVE - MAXIMUM
33% OF TRANSITION INSIDE CURVE - DESIRABLE
20% OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).



SEE PLAN SHEETS FOR SUPERELEVATION

▲ RATE OF SE OR NORMAL SHOULDER SLOPE, WHICHEVER IS GREATER (BUT NOT LESS THAN 3/4" PER FOOT FOR UNPAVED SHOULDERS)

■ ALGABRAIC DIFFERENCE IN PAVING AND SLOPE NOT TO EXCEED 0.08'/FT

● CURB AND GUTTER ON HIGH SIDE OF SUPER SHALL SPILL OVER

SUPERELEVATION DETAILS

NOT TO SCALE

TOWN OF TYRONE - GEORGIA - EST. 1911

POND Architects ■ Engineers ■ Planners

NTS

REVISION DATES

TYPICAL SECTIONS
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		05-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SUMMARY OF QUANTITIES

ROADWAY QUANTITIES

	GR AGGR BASE CRS, 6 INCH, INCL MATL	GR AGGR BASE CRS, 10 INCH, INCL MATL (CUL-DE-SAC)	GR AGGR BASE CRS, 12 INCH, INCL MATL	MILL ASPH CONC PVMT, 1 1/2 IN DEPTH	RECYCLED ASPH CONC PATCHING, INCL BITUM MATL	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER -MODIFIED BITUM MATL & H LIME	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME	TACK COAT	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	CLASS B CONC, BASE OR PVMT WIDENING
PAY ITEM	310-5060	310-5100	310-5120	432-0206	402-1801	402-1812	402-3121	402-3190	402-4510	402-3103	413-0750	446-1100	500-9999
UNITS	SY	SY	SY	SY	TN	TN	TN	TN	TN	TN	GL	LF	CY
TOTALS	632	953	4,800	1,579	2	215	731	488	495	17	834	286	7

CONCRETE QUANTITIES

	DRIVEWAY CONCRETE, 6 IN TK	CONC VALLEY GUTTER, 6 IN	CONC SIDEWALK, 4 IN	CONC SIDEWALK, 8 IN	CONC CURB & GUTTER, 6 IN X 24 IN, TP 2	CONCRETE HEADER CURB, 4 IN, TP 9	CONCRETE HEADER CURB, 6 IN, TP 7	CONCRETE MEDIAN, 6 IN	CONC SPILLWAY, TP 3
PAY ITEM	441-0016	441-4020	441-0104	441-0108	441-6012	441-5025	441-5008	441-0748	441-0303
UNITS	SY	SY	SY	SY	LF	LF	LF	SY	EA
TOTALS	127	40	570	1,227	1,637	280	1030	30	1

TRAFFIC CONTROL PAY ITEM:150-1000	
LUMP SUM	1

AGGR SURF CRS PAY ITEM:318-3000	
TN	160

GRADING COMPLETE PAY ITEM: 210-0100	
LUMP SUM	1

ORANGE BARRIER FENCE PAY ITEM:643-8200	
LF	145

RIGHT OF WAY MARKERS PAY ITEM: 634-1200	
EA	20

DRAINAGE QUANTITIES

STRUCTURE NUMBER	LOCATION			STORM DRAIN PIPE			S.E.S & F.E.S.			CATCH BASIN, DROP INLET AND MANHOLE							
				FEET	FEET		EA	EA	EA								
				STORM DRAIN PIPE, 18 IN, CLASS III	SIDE DRAIN PIPE, 15 IN, 1-10	SIDE DRAIN PIPE, 18 IN, 1-10	SAFETY END SECTION 15 IN, STORM DRAIN	SAFETY END SECTION 18 IN, STORM DRAIN	FLARED END SECTION 18 IN, STORM DRAIN	CATCH BASIN, GP 1	CATCH BASIN, GP 1, SPCL DESC	STORM SEWER MANHOLE, TP 1	DROP INLET, GP 1			STN DUMPED RIP RAP, TP 3, 18 IN	PLASTIC FILTER FABRIC
										6' 0" DEEP OR LESS	FLUME INLET	6' 0" DEEP OR LESS	6' 0" DEEP OR LESS	RECONSTRUCT MANHOLE	RECONSTRUCT DROP INLET		
				PAY ITEMS													
				550-5180	550-2150	550-2180	550-3315	550-3318	550-4218	668-1100	668-1105	668-4300	668-2100	611-3030	611-3010	603-2181	603-7000
	STA	O/S (FT)	SIDE	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	SY	SY
A-0	102+44.60	26.50	RT												1		
A-1	102+66.14	28.52	RT											1			
A-2	107+71.54	16.50	RT								1					11	11
B-0	307+34.99	31.06	LT						1							11	11
B-1	307+63.77	35.89	LT			34			1								
B-3	307+95.78	37.28	LT						1							10	10
B-4	308+19.54	39.53	LT	24								1					
B-5	206+66.82	30.64	LT	49									1				
B-6	210+25.57	16.85	LT	59									1				
B-7	209+64.44	37.13	RT	65									1				
B-8	210+07.05	33.08	RT	39									1				
B-9	210+54.71	18.05	RT	45									1				
B-10	211+11.62	19.79	RT	52									1				
C-1	105+78.66	27.73	LT		25		1										
C-0	105+61.89	27.69	LT				1										
D-0	415+62.80	17.40	LT					1								5	5
D-1	414+74.00	13.50	LT	87						1							
D-2	414+74.20	42.90	LT	25									1				
D-5	410+62.00	12.19	LT								1					11	11
TOTALS				445	25	34	2	1	3	1	2	1	7	1	1	48	48

GRANITE COBBLESTONE TRUCK APRON * SEE BID ALTERNATE #2, DWG 06-0003		
GRANITE COBBLESTONE (TRUCK APRON), 6" THICK PAY ITEM: 607-9999	SY	310
CONCRETE VALLEY GUTTER, 8 IN PAY ITEM: 441-4030	SY	310

GRANITE COBBLESTONE PAVER STRIP * SEE BID ALTERNATE #3, DWG 06-0003		
GRANITE COBBLESTONE (PAVER STRIP), 4" THICK PAY ITEM: 607-9999	SY	60
CONCRETE VALLEY GUTTER, 8 IN PAY ITEM: 441-4030	SY	60

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

SUMMARY QUANTITIES
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 06-0001

GPLN-CE 11/05/2020

SUMMARY OF QUANTITIES

STANDARD ROADSIDE SIGNS

HIGHWAY SIGNS													GALVANIZED STEEL POSTS
STATION	OFFSET	INSTALLATION NO.	SIDE	SIGN CODE	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9 636-1033				HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11 636-1036				TYPE 7 636-2070
					W	X	H	FT²	W	X	H	FT²	LENGTH (FEET)
					NON RED SERIES				RED SERIES				
104+44.77	14.48	1	LT	R2-1					#		36	7.5	13
105+24.01	15.49	2	RT	W2-6					#		30	6.25	14
				W16-9P					#		12	2	
106+79.46	14.20	3	RT	W11-2					#		36	9	14
			RT	W16-9P					#		12	2	
107+37.62	0.07	4	RT	R4-7C	#		#	3.75					13
108+31.25	5.01	5	RT	D1-1D					#		12	4.5	11
108+37.75	34.52	6	RT	R1-1					#		36	9	13
108+74.98	14.20	7	RT	R6-4	#		#	5					12
209+21.05	20.36	8	LT	R6-4	#		#	5					12
209+62.92	35.79	9	LT	R1-1					#		36	9	13
209+73.92	1.66	10	RT	D1-1D					#		12	4	11
210+04.28	24.88	11	LT	W11-2					#		36	9	14
				W16-7P					#		12	2	
210+19.37	0.33	12	RT	R4-7C	#		#	5					13
211+19.91	17.96	13	LT	W11-2					#		36	9	14
				W16-9P					#		12	2	
212+04.31	14.30	14	LT	W2-6					#		30	6.25	14
				W16-9P					#		12	2	
306+64.33	23.05	15	RT	W2-6					#		30	6.25	14
				W16-9P					#		12	2	
306+81.99	23.25	16	RT	W11-15					#		36	9	14
				W16-9P					#		12	2	
307+77.39	0.08	17	RT	R4-7C	#		#	5					13
307+96.12	18.33	18	RT	W11-2					#		36	9	14
				W16-7P					#		12	2	
308+31.55	28.42	19	RT	R1-1					#		36	9	13
308+31.91	6.15	20	LT	D1-1D					#		12	4.5	11
308+75.21	15.89	21	RT	R6-4	#		#	5					12
409+24.44	16.70	22	LT	R6-4	#		#	5					12
409+60.25	35.85	23	LT	R1-1					#		36	9	13
409+69.39	14.20	24	RT	D1-1D					#		12	4.5	11
410+14.81	0.18	25	LT	R4-7C	#		#	5					13
411+22.05	15.31	26	LT	W11-15					#		36	9	14
				W16-9P					#		12	2	
411+45.65	15.66	27	LT	W2-6					#		30	6.25	14
				W16-9P					#		12	2	
411+85.27	15.20	28	LT	W1-8					#		24	3	12
412+22.54	14.26	29	RT	R2-1					#		36	7.5	13
412+23.33	15.62	30	LT	W1-8					#		24	3	12
412+61.23	15.80	31	LT	W1-8					#		24	3	12
412+99.86	15.61	32	LT	W1-8					#		24	3	12
TOTAL								39				180	408

SIGNING & MARKING

PAY ITEM	DESCRIPTION	UNIT	QTY
610-9001	REM SIGN	EA	2
611-5551	RESET SIGN	EA	2
636-2070	GALV STEEL POSTS, TP 7	LF	408
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	39
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	SF	180
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	3806
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	3035
653-4830	THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	GLF	135
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	148
653-0296	THERMOPLASTIC PVMT MARKING, WORD, TP 15	EA	4
654-1001	RAISED PAVEMENT MARKERS TP 1	EA	134
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	1076
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	18

167-1500 WATER QUALITY INSPECTIONS — MO 18

167-1000 WATER QUALITY MONITORING AND SAMPLING — EA 6

171-0030 TEMPORARY SILT FENCE, TP C — LF 2020

163-0528 DITCH CHECKS — LF 900

165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES — LF 450

165-0030 MAINTENANCE OF TEMPORARY SILT FENCE, TP C — LF 1010

163-0550 CONSTRUCT & REMOVE TEMP INLET SEDIMENT TRAPS — EA 14

165-0105 MAINTENANCE OF TEMP INLET SEDIMENT TRAPS — EA 14

163-0541 CONSTRUCT & REMOVE ROCK FILTER DAMS — EA 4

163-0232 TEMPORARY GRASSING — ACRE 3

700-8000 FERTILIZER MIXED GRADE — TN 3

165-0110 MAINTENANCE OF ROCK FILTER DAMS — EA 4

701-0030 AGRICULTURAL LIME — TN 17

163-0240 MULCH — TN 81

700-8100 FERTILIZER, NITROGEN CONTENT — LB 300

161-1000 INSTALL, MAINTAIN, AND REMOVE IMPAIRED STREAM PROJECT INFO SIGN — EA 1

716-2000 EROSION CONTROL MATS, SLOPES — SY 1675

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

SUMMARY QUANTITIES
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		06-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SUMMARY OF QUANTITIES

LIGHTING SUMMARY OF QUANTITIES

PAY ITEM NUMBER	ITEM DESCRIPTION	UNITS	ITEM DESCRIPTION
680-3600	LIGHTING STD, SPCL DESIGN, SIGN LIGHT	EA	3
680-4200	LIGHTING STD, 0-20 FT MH	EA	5
680-4225	LIGHTING STD, 26-30 FT MH	EA	12
680-5245	LUMINAIRE BRACKET ARM, 2 FT	EA	17
680-6130	LUMINAIRE, TP 3, LED	EA	17
682-1504	CABLE, TP RHH/RHW, AWG NO 10	LF	5798
682-2110	ELECTRICAL SERVICE POINT	EA	1
682-6221	CONDUIT, NONMETL, TP 2, 1-¼IN	LF	2301
682-9950	DIRECTIONAL BORE - 3 IN	LF	226
682-1505	CABLE, TP RHH/RHW, AWG NO 8	LF	320
682-9020	ELECTRICAL JUNCTION BOX	LF	8

SIGNALIZATION SUMMARY OF QUANTITIES

PAY ITEM NUMBER	ITEM DESCRIPTION	UNITS	ITEM DESCRIPTION
647-1030	RRFB INSTALLATION NO. 1 - PALMETTO RD AT ARROWOOD / SPENCER MIDBLOCK CROSSING	LS	1
999-3900	TESTING	LS	1
999-3975	TRAINING	LS	1

BID ALTERNATE #1*	
702-0196 HYDROSEED	
AC	2

*IF BID ALTERNATIVE #1 IS ACCEPTED/CHOSEN. QUANITITY ASSOCIATED WITH ORIGINAL MATERIAL (441-3030 & 607-9999) WILL BE DEDUCTED FROM BID.

BID ALTERNATE #2**	
403-0200 PLAIN PC CONC PVMT, CL 1 CONC, 10 INCH THK	
SY	310

**IF BID ALTERNATIVE #2 IS ACCEPTED/CHOSEN. QUANITITY ASSOCIATED WITH ORIGINAL MATERIAL (441-3030 & 607-9999) WILL BE DEDUCTED FROM BID.

BID ALTERNATE #3***	
441-0748 CONCRETE MEDIAN, 6"	
SY	60

***IF BID ALTERNATIVE #3 IS ACCEPTED/CHOSEN. QUANITITY ASSOCIATED WITH ORIGINAL MATERIAL (441-3030 & 607-9999) WILL BE DEDUCTED FROM BID.

LANDSCAPING SUMMARY OF QUANTITIES

PAY ITEM	BOTANICAL NAME	COMMON NAME	UNIT	QTY
702-0030	ACER RUBRUM	RED MAPLE, 2" CALIPER	EA	3
702-0575	LIRIODENDRON TULIPIFERA	TULIP TREE, 1.5" CALIPER	EA	3
702-0885	QUERCUS GEORGIANA 'JAYBIRD'	JAYBIRD GEORGIA OAK, 1.5" CALIPER	EA	6
702-0898	QUERCUS PHELLOS	WILLOW OAK, 2" CALIPER	EA	1
702-0464	ILEX OPACA 'JERSEY KNIGHT'	JERSEY KNIGHT AMERICAN HOLLY, 12'-14' HT	EA	3
702-0480	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY, 12'-14' HT	EA	1
702-0031	MAGNOLIA GRANDIFLORA 'TEDDY BEAR'	TEDDY BEAR SOUTHERN MAGNOLIA, 8'-10' HT	EA	6
702-0031	ACORUS GRAMINEUS 'OGON'	GOLDEN VARIEGATED SWEETFLAG, 1" CALIPER	EA	646
702-0118	CAREX APPALACHICA	APPALACHIAN SEDGE, 1 GALLON	EA	651
702-0119	CAREX GRAYI	GRAY'S SEDGE, 1 GALLON	EA	452
702-0219	DISTYLIUM X 'PIIDIST-VI'	SWING LOW\ DISTYLIUM, 1 GALLON	EA	161
702-0264	ERAGROSTIS ELLIOTTII 'WIND DANCER'	ELLIOT'S LOVE GRASS, 1 GALLON	EA	700
702-0265	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS, 1 GALLON	EA	468
702-0399	HYDRANGEA PANICULATA 'SMNHPH'	LITTLE LIME PUNCH HYDRANGEA, 3 GALLON	EA	83
702-0678	MUHLENBERGIA CAPILLARIS	PINK MUHLY, 3 GALLON	EA	500
702-1039	SPOROBOLUS HETEROLEPIS 'TARA'	PRAIRIE DROPSEED, 1 GALLON	EA	198
702-1099	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	MRS. SCHILLERS DELIGHT WALTER'S VIBURNUM, 1 GALLON	EA	20
700-9300	CYNODON DACTYLON '419 HYBRID'*	BERMUDA GRASS	SY	7130
708-1000	PLANT TOP SOIL		CY	230
702-9025	LANDSCAPE MULCH		SY	1020
600-9999	ILLUMINATED MONUMENT SIGN		LS	1
600-9999	18" TALL GRANITE COBBLESTONE RETAINING WALL FOR MOUNTING MONUMENT SIGN		LS	1

* SEE BID ALTERNATE #1, THIS SHEET

UTILITY SUMMARY OF QUANTITIES

PAY ITEM NUMBER	ITEM DESCRIPTION	UNITS	ITEM DESCRIPTION
611-3020	RECONSTR SAN SEW MANHOLE, TYPE 1	EA	1
615-1000	JACK OR BORE PIPE, STEEL CASING, 18"	LF	90
660-1220	SEWER FORCEMAIN, 6 IN, HDPE	LF	871
660-2420	AIR RELEASE VALVE ASSEMBLY, 6 IN	EA	1
668-3300	SAN SEW MANHOLE, TYPE 1	EA	1
670-1060	WATER MAIN, 6"	LF	43
670-1490	CUT AND CAP EXISTING WATER MAIN	EA	3
670-1999	WATER MAIN ADJUSTMENTS	LS	1

TOWN OF TYRONE - GEORGIA - EST. 1911

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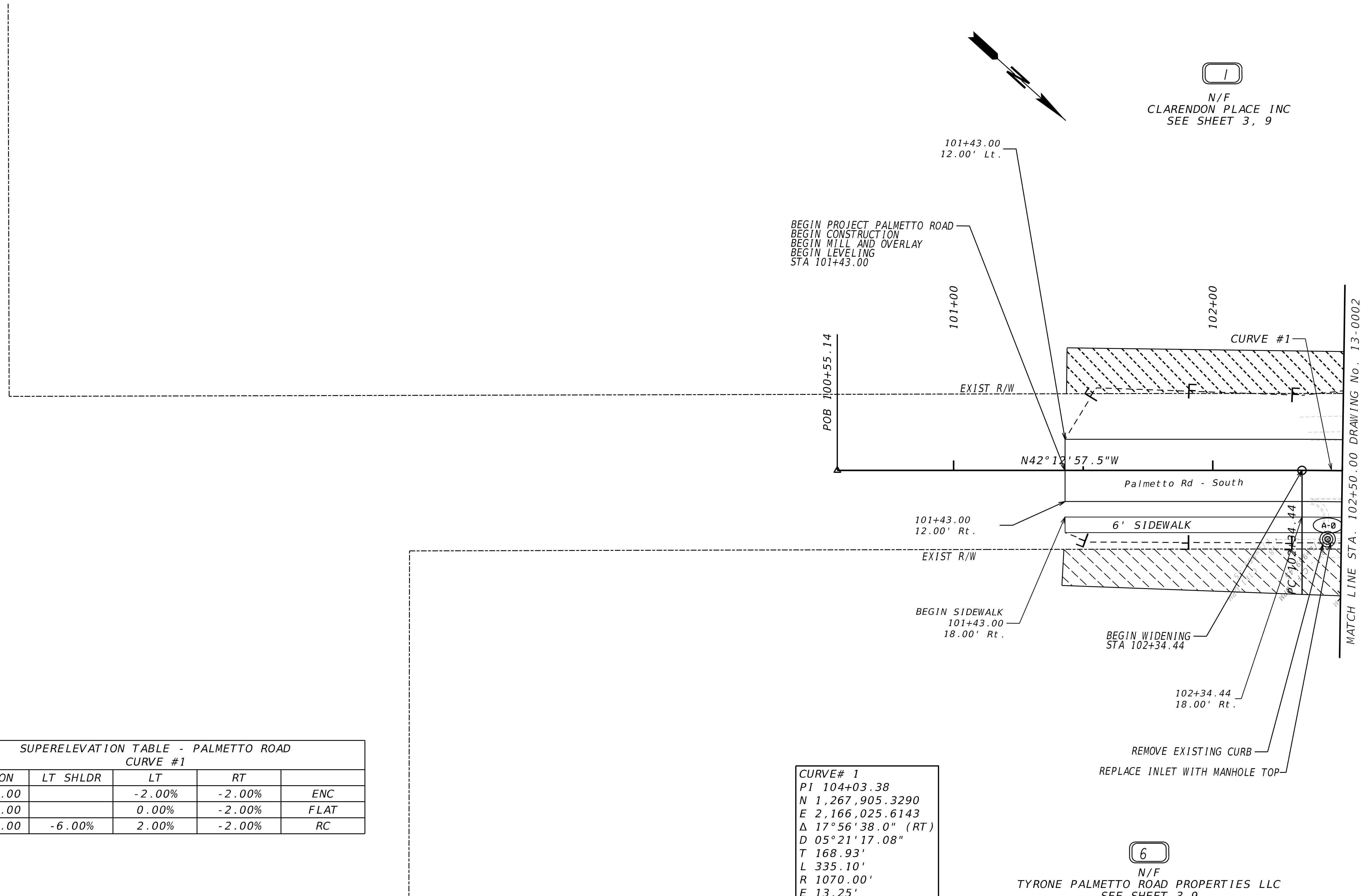
REVISION DATES

SUMMARY QUANTITIES

CHECKED: DATE: | BACKCHECKED: DATE: | CORRECTED: DATE: | VERIFIED: DATE:

DRAWING No. 06-0003



SUPERELEVATION TABLE - PALMETTO ROAD
CURVE #1

STATION	LT SHLDR	LT	RT	
101+43.00		-2.00%	-2.00%	ENC
101+82.00		0.00%	-2.00%	FLAT
102+20.00	-6.00%	2.00%	-2.00%	RC

CURVE# 1
PI 104+03.38
N 1,267,905.3290
E 2,166,025.6143
Δ 17°56'38.0" (RT)
D 05°21'17.08"
T 168.93'
L 335.10'
R 1070.00'
E 13.25'
ed 4%
D.S. 35 mph

SEE 60 SERIES SHEETS FOR STATION/OFFSETS OF REQUIRED ROW AND EASEMENTS.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS............BLA
END LIMIT OF ACCESS..............ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE · GEORGIA · EST. 1911

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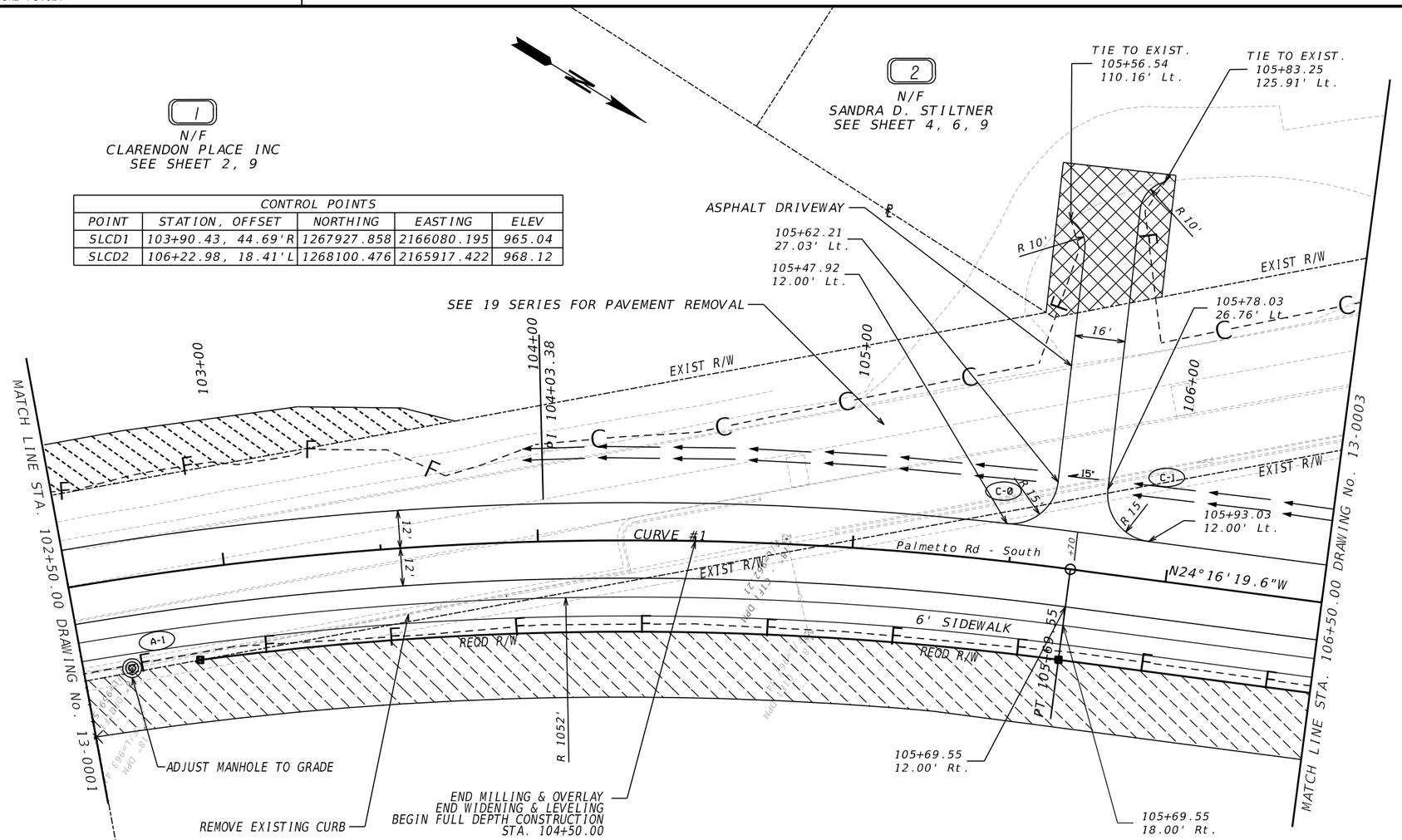
SCALE IN FEET
0 20 40 80

REVISION DATES

CONSTRUCTION PLAN
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No.
13-0001



CONTROL POINTS				
POINT	STATION, OFFSET	NORTHING	EASTING	ELEV
SLCD1	103+90.43, 44.69'R	1267927.858	2166080.195	965.04
SLCD2	106+22.98, 18.41'L	1268100.476	2165917.422	968.12

6
N/F
TYRONE PALMETTO ROAD PROPERTIES LLC
SEE SHEET 2,9

7
N/F
CLARENDON PLACE INC
SEE SHEET 4, 7, 9, 10

SEE 60 SERIES SHEETS FOR STATION/OFFSETS OF REQUIRED ROW AND EASEMENTS.

CURVE# 1
PI 104+03.38
N 1,267,905.3290
E 2,166,025.6143
Δ 17°56'38.0" (RT)
D 05°21'17.08"
T 168.93'
L 335.10'
R 1070.00'
E 13.25'
ed 4%
D.S. 35 mph

SUPERELEVATION TABLE - PALMETTO ROAD CURVE #1				
STATION	LT SHLDR	LT	RT	
102+60.00	-4.00%	4.00%	-4.00%	BFSE
105+44.00	-4.00%	4.00%	-4.00%	EFSE
105+84.00	-6.00%	2.00%	-2.00%	RC
106+22.00		0.00%	-2.00%	FLAT
106+61.00		-2.00%	-2.00%	BNC

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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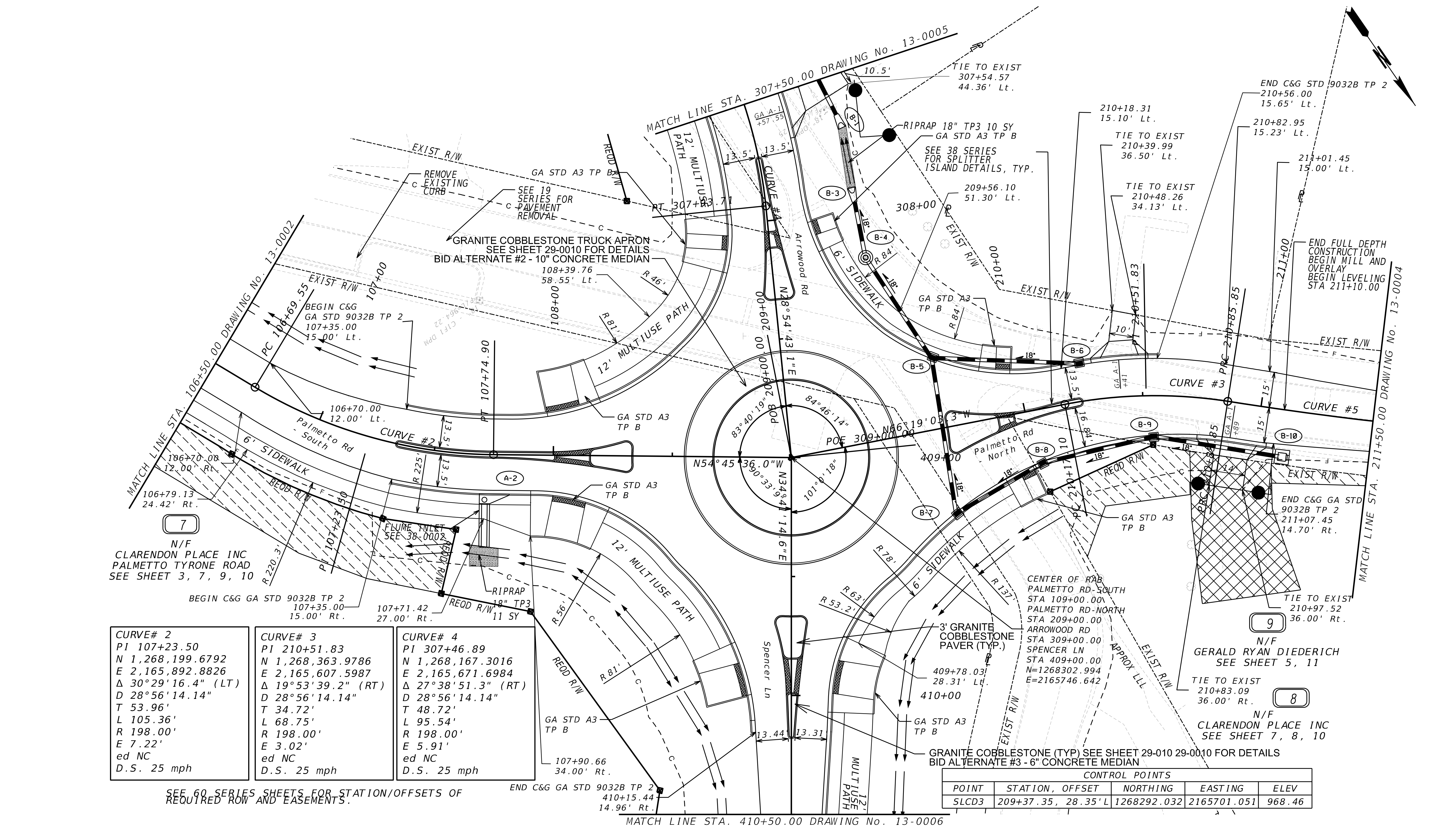
SCALE IN FEET
0 20 40 80

REVISION DATES		

CONSTRUCTION PLAN
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		13-0002
VERIFIED:		DATE:		

GPLN-CE
11/05/2020



CURVE# 2
PI 107+23.50
N 1,268,199.6792
E 2,165,892.8826
Δ 30°29'16.4" (LT)
D 28°56'14.14"
T 53.96'
L 105.36'
R 198.00'
E 7.22'
ed NC
D.S. 25 mph

CURVE# 3
PI 210+51.83
N 1,268,363.9786
E 2,165,607.5987
Δ 19°53'39.2" (RT)
D 28°56'14.14"
T 34.72'
L 68.75'
R 198.00'
E 3.02'
ed NC
D.S. 25 mph

CURVE# 4
PI 307+46.89
N 1,268,167.3016
E 2,165,671.6984
Δ 27°38'51.3" (RT)
D 28°56'14.14"
T 48.72'
L 95.54'
R 198.00'
E 5.91'
ed NC
D.S. 25 mph

CONTROL POINTS

POINT	STATION, OFFSET	NORTHING	EASTING	ELEV
SLCD3	209+37.35, 28.35'L	1268292.032	2165701.051	968.46

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS............BLA
END LIMIT OF ACCESS.............ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE · GEORGIA · EST. 1911

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SCALE IN FEET 0 20 40 80

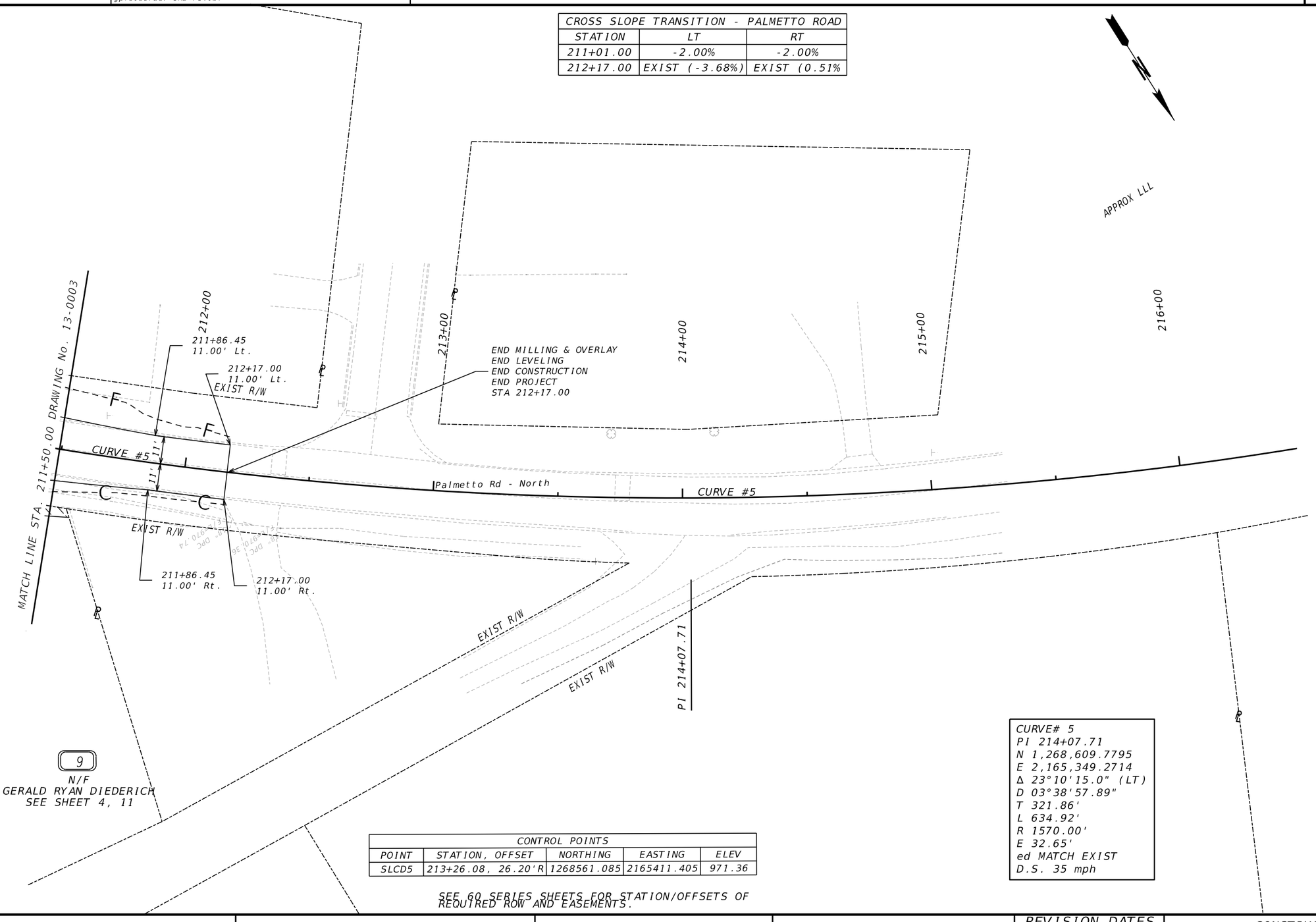
REVISION DATES

CONSTRUCTION PLAN
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 13-0003

CROSS SLOPE TRANSITION - PALMETTO ROAD		
STATION	LT	RT
211+01.00	-2.00%	-2.00%
212+17.00	EXIST (-3.68%)	EXIST (0.51%



CURVE# 5
PI 214+07.71
N 1,268,609.7795
E 2,165,349.2714
Δ 23°10'15.0" (LT)
D 03°38'57.89"
T 321.86'
L 634.92'
R 1570.00'
E 32.65'
ed MATCH EXIST
D.S. 35 mph

CONTROL POINTS				
POINT	STATION, OFFSET	NORTHING	EASTING	ELEV
SLCD5	213+26.08, 26.20'R	1268561.085	2165411.405	971.36

SEE 60 SERIES SHEETS FOR STATION/OFFSETS OF REQUIRED ROW AND EASEMENTS.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES

CONSTRUCTION PLAN
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLN-CE 11/05/2020

CURVE# 4
PI 307+46.89
N 1,268,167.3016
E 2,165,671.6984
Δ 27°38'51.3" (RT)
D 28°56'14.14"
T 48.72'
L 95.54'
R 198.00'
E 5.91'
ed NC
D.S. 25 mph

303+00 304+00 305+00 306+00 307+00

POB 302+18.73

N00°54'14.4"E

N01°15'51.8"E

APPROX LLL

EXIST R/W

BEGIN FULL DEPTH CONSTRUCTION
STA 306+62.00

BEGIN CONSTRUCTION ARROWOOD RD
STA 306+50.00

Arrowood Rd

TIE TO EXIST
307+46.09
41.54' Lt.

BEGIN C&G
GA STD 9032B
307+35.00
15.00' Lt.

GA STD 9013
CONC. SPILLWAY TP 3
307+35.00
16.50' Lt.

306+75.00
11.00' Lt.

306+62.00
11.00' Lt.

RIPRAP 18"
TP3 11 SY

306+98.16
12.54' Lt.

PI 307+46.89

CURVE #4

R 215'

R 183'

11'

11'

15'

307+50.00 DRAWING No. 13-0003

306+62.00
11.00' Rt.

306+75.00
11.00' Rt.

BEGIN C&G GA STD 9032B
306+62.00
19.00' Rt.

306+75.00
19.00' Rt.

307+05.67
13.05' Rt.

307+05.00
21.00' Rt.

REQD R/W

PC 306+98.16

MATCH LINE STA. 307+50.00

BEGIN C&G GA STD 9032B,
BEGIN 7' CURB HEIGHT TRANSITION
307+35.00
15.00' Rt.

END C&G GA
STD 9032B TP 2
BEGIN 12'
MULTIUSE TRAIL
307+35.00
34.00' Rt.

2
N/F
SANDRA D. STILTNER
SEE SHEET 3, 4, 9

CONTROL POINTS				
POINT	STATION, OFFSET	NORTHING	EASTING	ELEV
SLCD4	304+98.32, 17.90'R	1267918.399	2165684.108	951.77

SEE 60 SERIES SHEETS FOR STATION/OFFSETS OF REQUIRED ROW AND EASEMENTS.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES

CONSTRUCTION PLAN
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLN-CE 11/05/2020

10" GAB CUL-DE-SAC (SEE 18 SERIES FOR MORE INFO)

SEE 60 SERIES SHEETS FOR STATION/OFFSETS OF REQUIRED ROW AND EASEMENTS.

SUPERELEVATION TABLE - SPENCER LANE CURVE #6			
STATION	LT	RT	
410+24.00	-2.00%	-2.00%	ENC
410+60.00	0.00%	-2.00%	FLAT
410+97.00	2.00%	-2.00%	RC
413+41.00	2.00%	-2.00%	RC
413+78.00	0.00%	EXIST (-2.23%)	FLAT
414+14.00	-2.00%	-2.00%	BNC

8
N/F
CLARENDON PLACE INC
SEE SHEET 4, 8, 10

EXIST R/W

410+65.00
12.00' Lt.

FLUME INLET
SEE 38-0002
410+65.00
31.00' Lt.

RIPRAP 18"
TP3 11 SY

411+00

412+00

PI 412+30.98

413+00

413+52.98
31.00' Lt.

414+00

R 304'

CURVE #6

12' MULTIUSE PATH

MATCH LINE STA. 410+50.00 DRAWING No. 13-0003

0-5 Spencer Ln

N34°41'14.6"E

PC 410+85.23

REQD R/W

END FULL DEPTH CONSTRUCTION
BEGIN MILL AND OVERLAY
BEGIN LEVELING
STA. 413+52.98

PT 413+521.98

12'

12'

S89°07'08.9"E

MATCH LINE STA. 414+50.00 DRAWING No. 13-0007

CURVE# 6
PI 412+30.98
N 1,268,575.1463
E 2,165,935.0002
Δ 56°11'36.4" (RT)
D 20°59'14.87"
T 145.75'
L 267.75'
R 273.00'
E 36.47'
ed RC
D.S. 30 mph

10
N/F
CLARENDON PLACE INC
SEE SHEET 8, 11

8
N/F
CLARENDON PLACE INC
SEE SHEET 4, 8, 10

410+65.00
12.00' Rt.

7
N/F
CLARENDON PLACE INC
SEE SHEET 3, 4, 9, 10

CONTROL POINTS				
POINT	STATION, OFFSET	NORTHING	EASTING	ELEV
SLCD6	411+16.50, 83.27'L	1268534.839	2165808.677	978.31
SLCD7	413+18.78, 35.47'L	1268606.550	2166042.710	954.49

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES

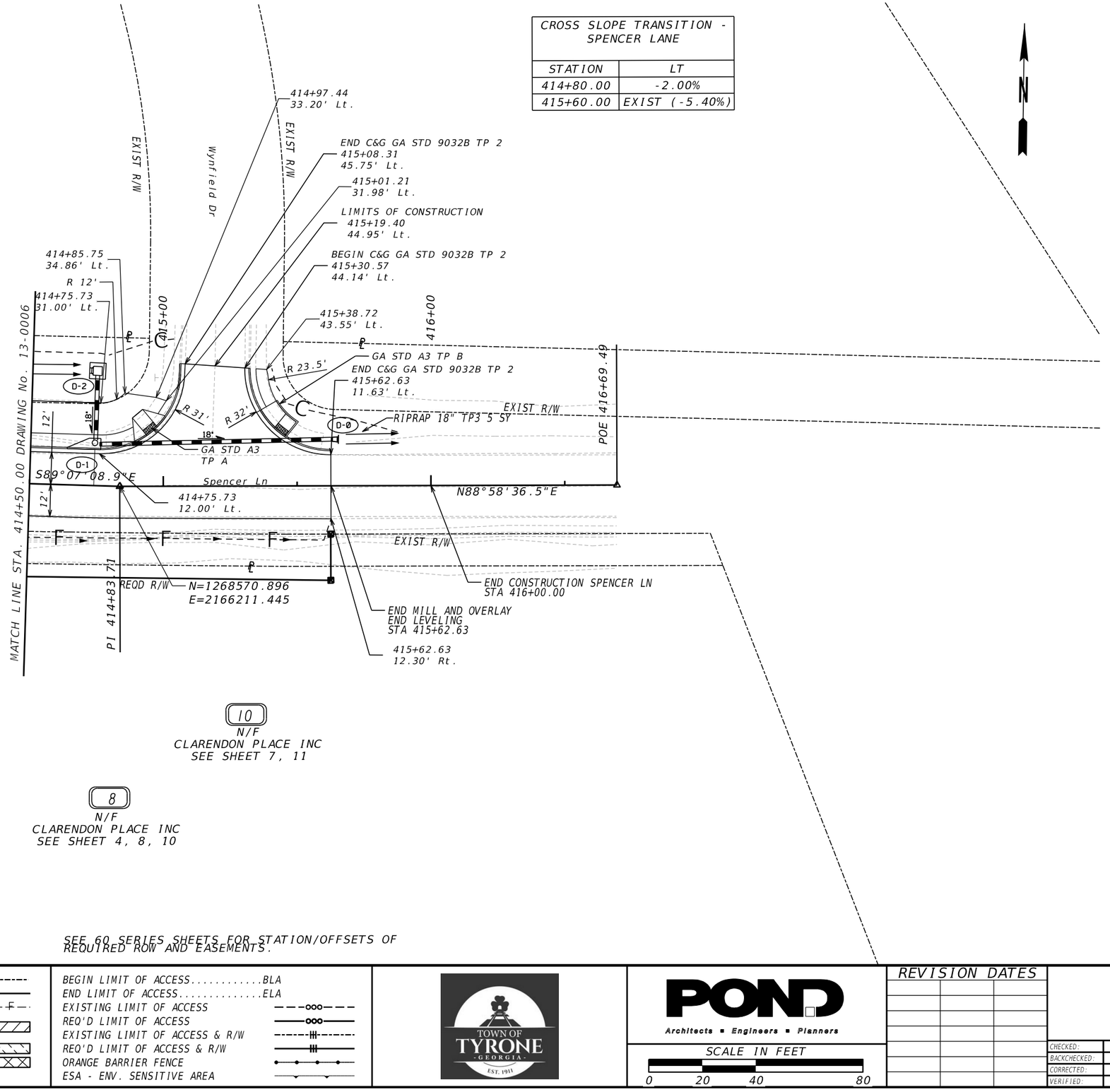
CONSTRUCTION PLAN
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No.
13-0006

GPLN-CE
11/05/2020

CROSS SLOPE TRANSITION - SPENCER LANE	
STATION	LT
414+80.00	-2.00%
415+60.00	EXIST (-5.40%)



SEE 60 SERIES SHEETS FOR STATION/OFFSETS OF REQUIRED ROW AND EASEMENTS.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES

CONSTRUCTION PLAN
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-0007
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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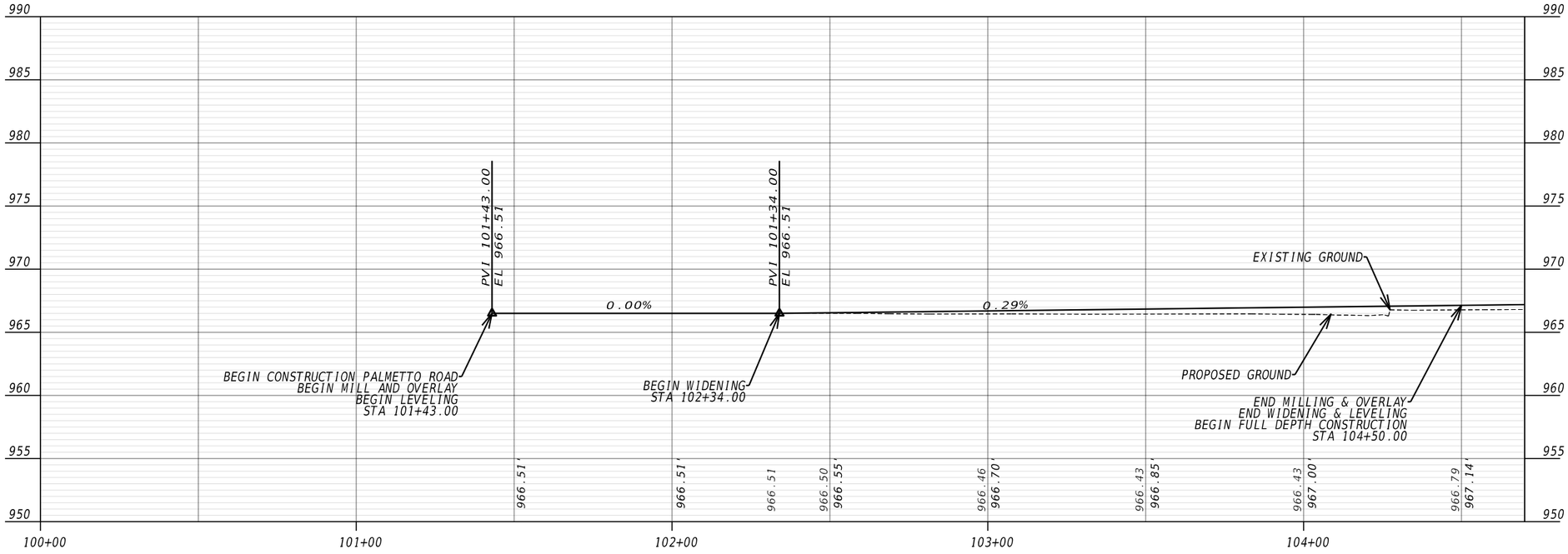

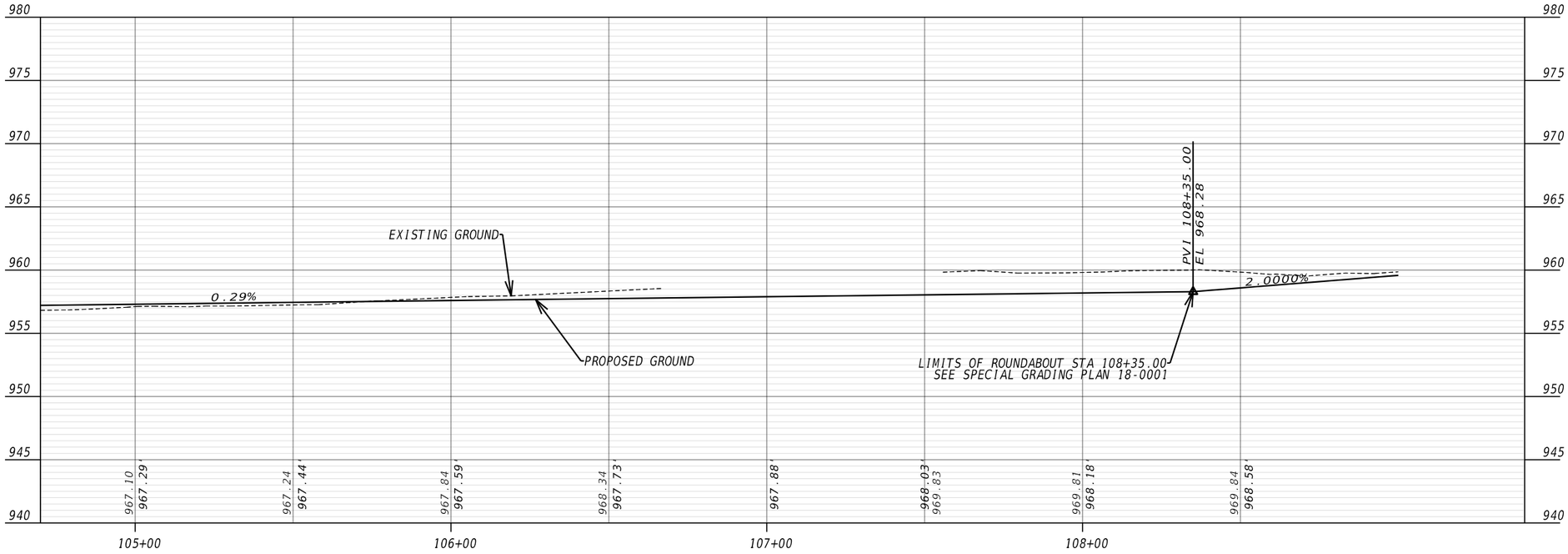

TOWN OF TYRONE - GEORGIA - EST. 1911

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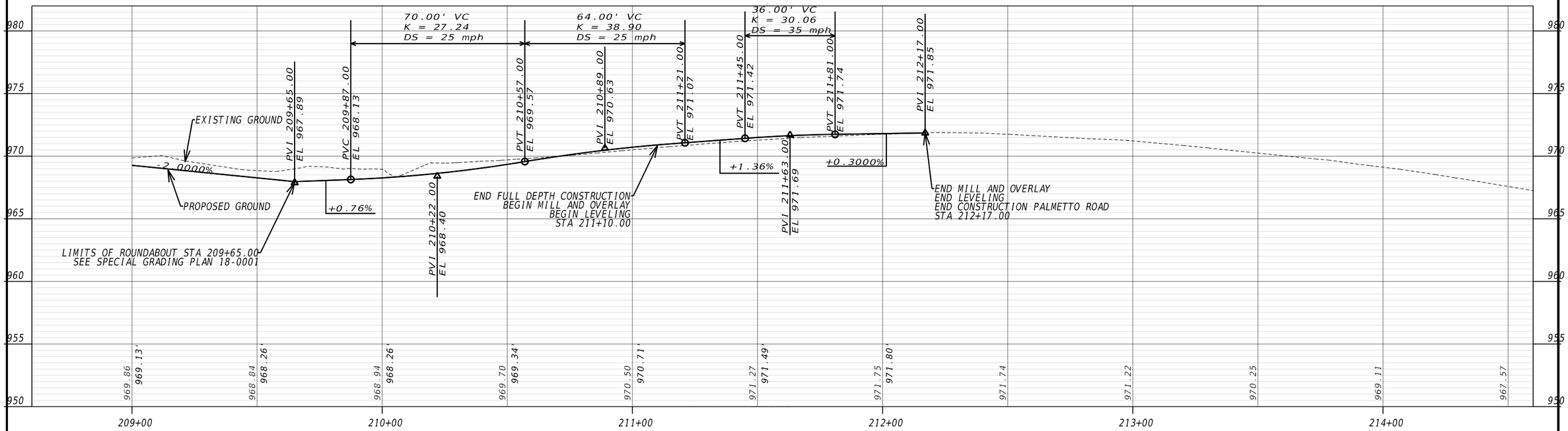
SCALE 1 INCH = 10 FEET VERT.
SCALE 1 INCH = 40 FEET HORZ.

REVISION DATES

MAINLINE PROFILE
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		15-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLN-CE
11/05/2020



TOWN OF TYRONE - GEORGIA - EST. 1911

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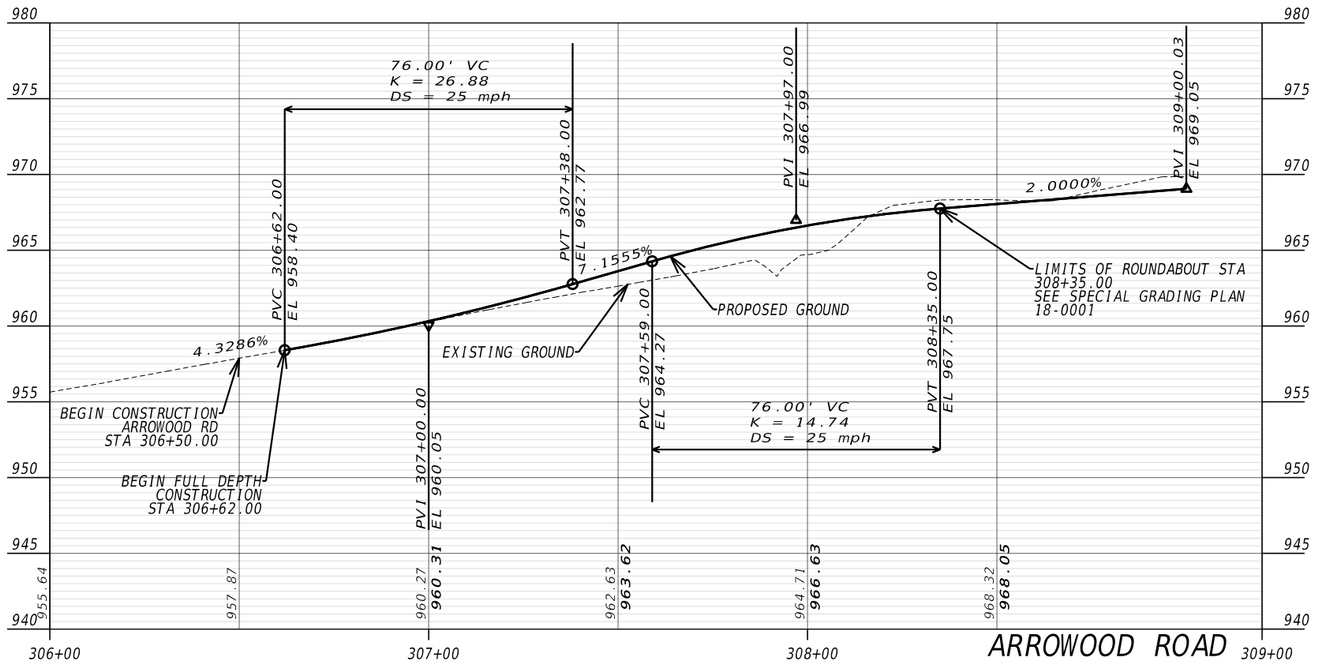
SCALE 1 INCH = 10 FEET VERT.
SCALE 1 INCH = 40 FEET HORZ.

REVISION DATES

MAINLINE PROFILE
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		15-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLN-CE
11/05/2020



TOWN OF TYRONE - GEORGIA - EST. 1911

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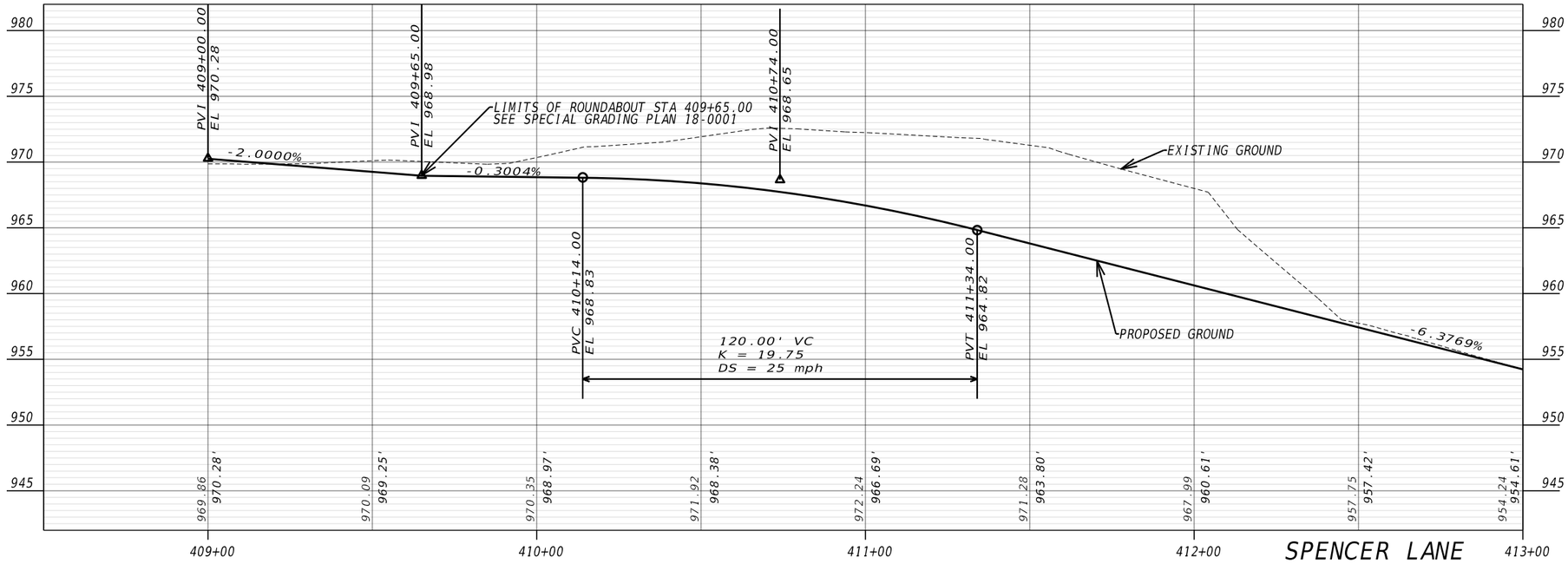
SCALE 1 INCH = 10 FEET VERT.
SCALE 1 INCH = 40 FEET HORZ.

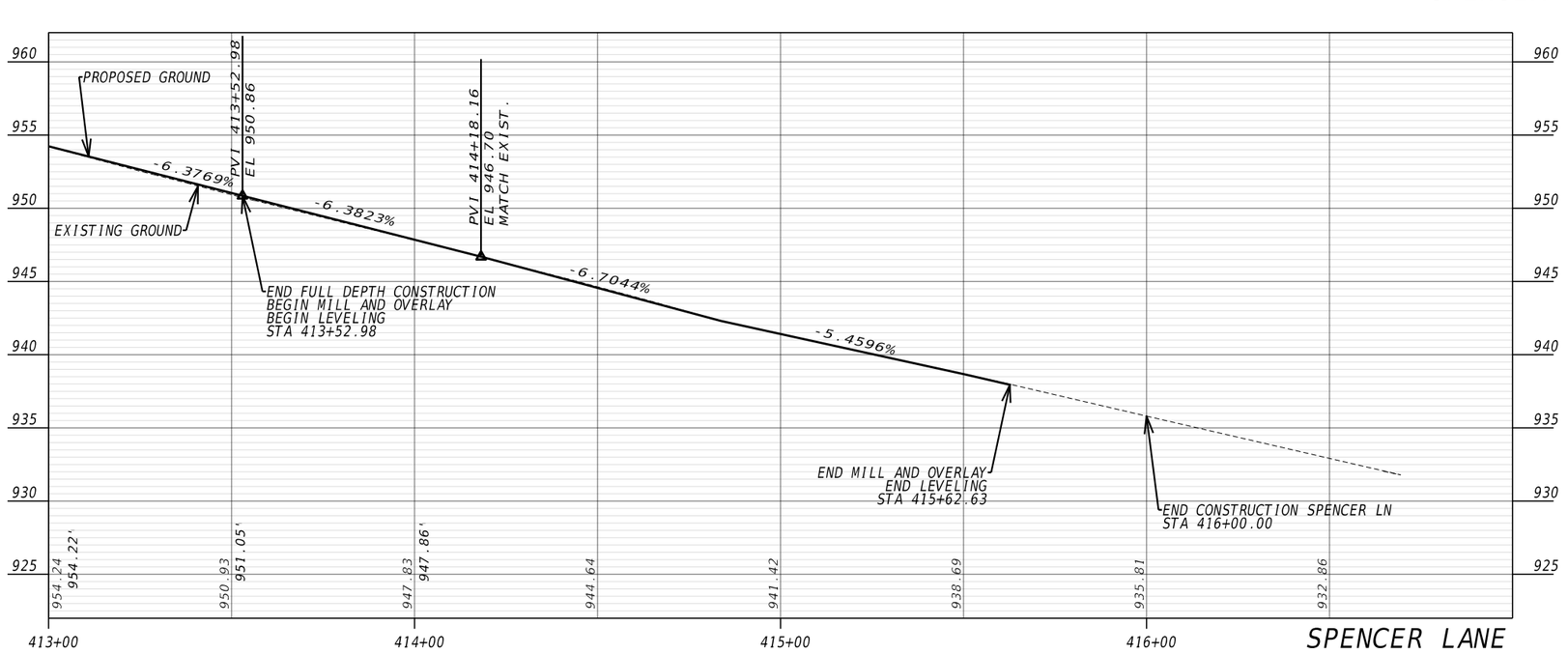
REVISION DATES

CROSSROAD PROFILE
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		16-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLN-CE
11/05/2020





TOWN OF TYRONE - GEORGIA - EST. 1911

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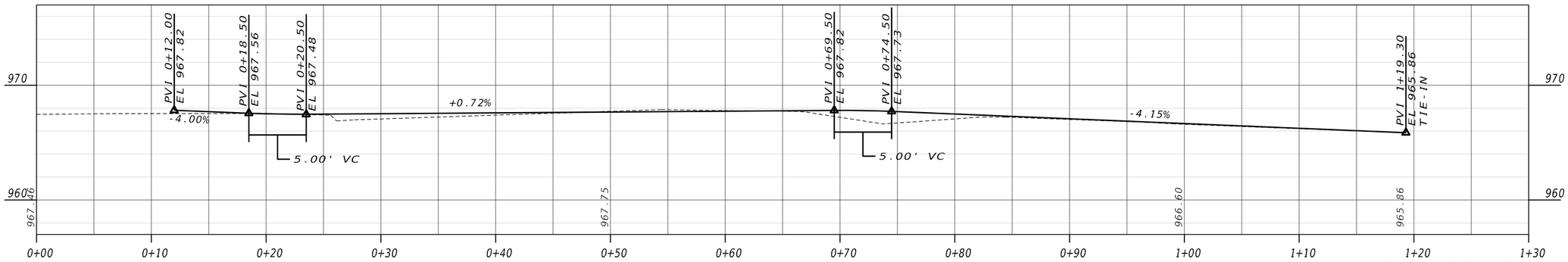
SCALE 1 INCH = 10 FEET VERT.
SCALE 1 INCH = 40 FEET HORZ.

REVISION DATES

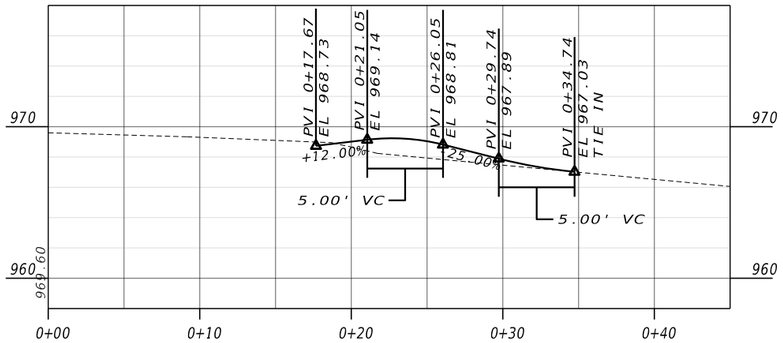
CROSSROAD PROFILE
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		16-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

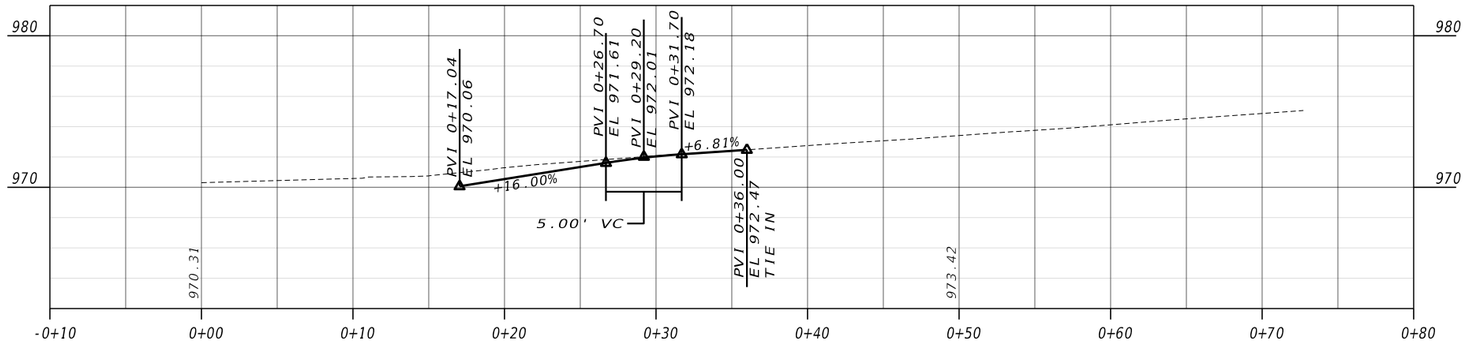
GPLN-CE
11/05/2020



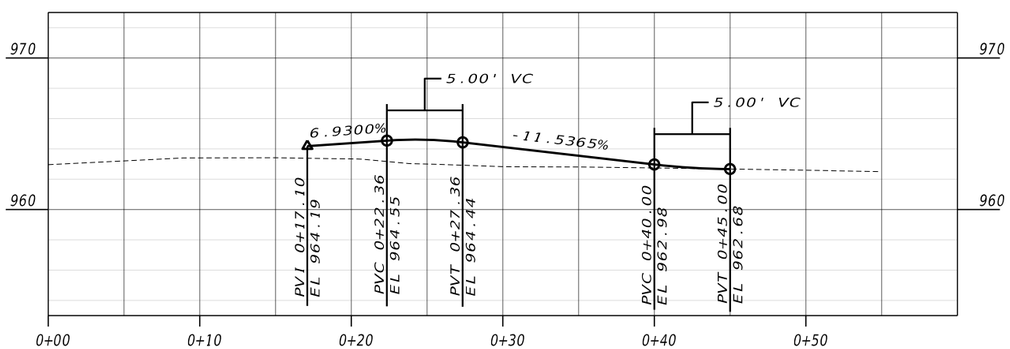
STA. 105+70 LT
PALMETTO ROAD



STA. 210+41 LT
PALMETTO ROAD



STA. 210+89 RT
PALMETTO ROAD



STA. 307+57.55 LT
ARROWOOD ROAD

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE 1 INCH = 10 FEET VERT.
SCALE 1 INCH = 10 FEET HORZ.

REVISION DATES

DRIVEWAY PROFILE
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		17-0001
VERIFIED:		DATE:		

GPLN-CE
11/05/2020

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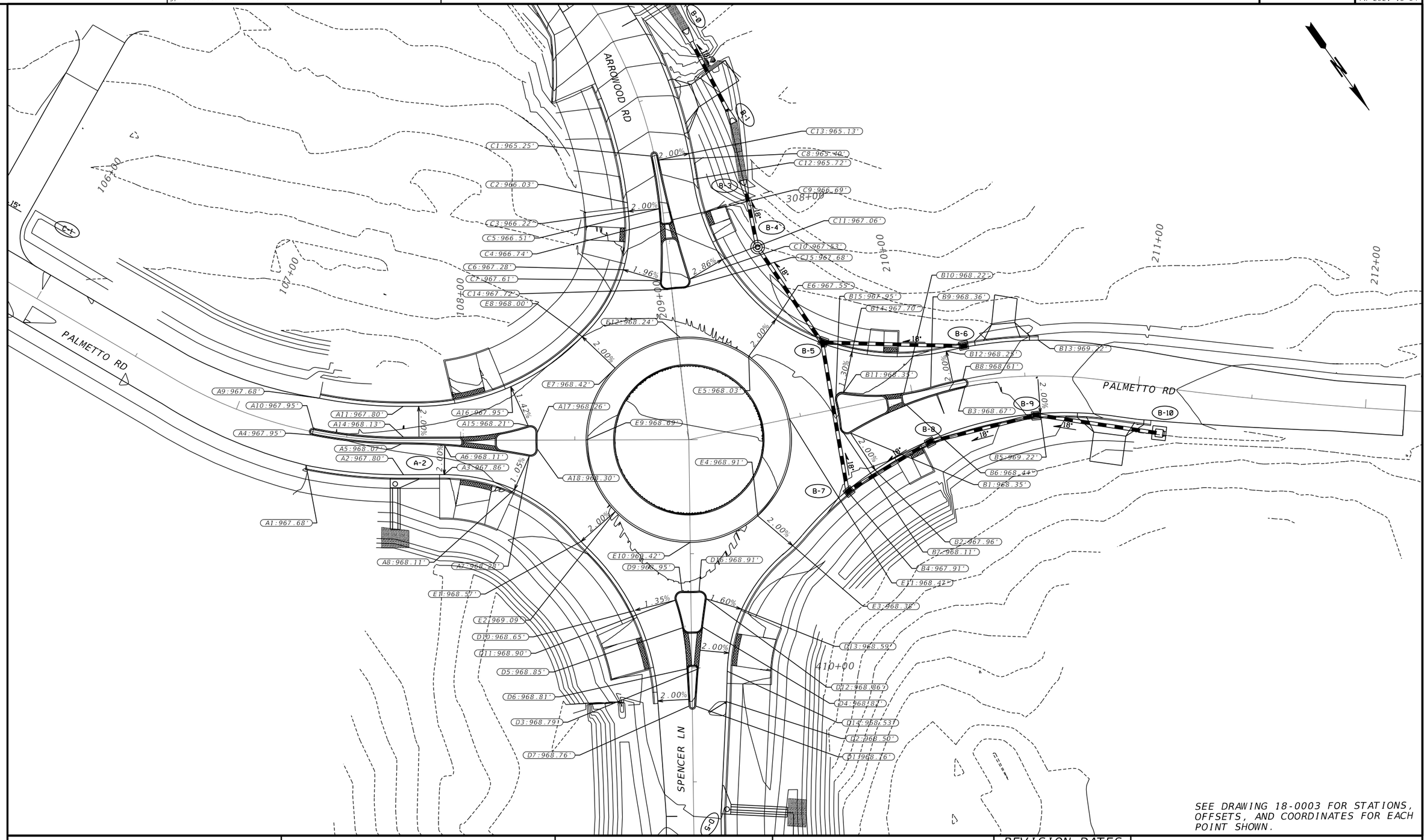

SEE DRAWING 18-0003 FOR STATIONS, OFFSETS, AND COORDINATES FOR EACH POINT SHOWN.

TOWN OF TYRONE - GEORGIA - EST. 1911

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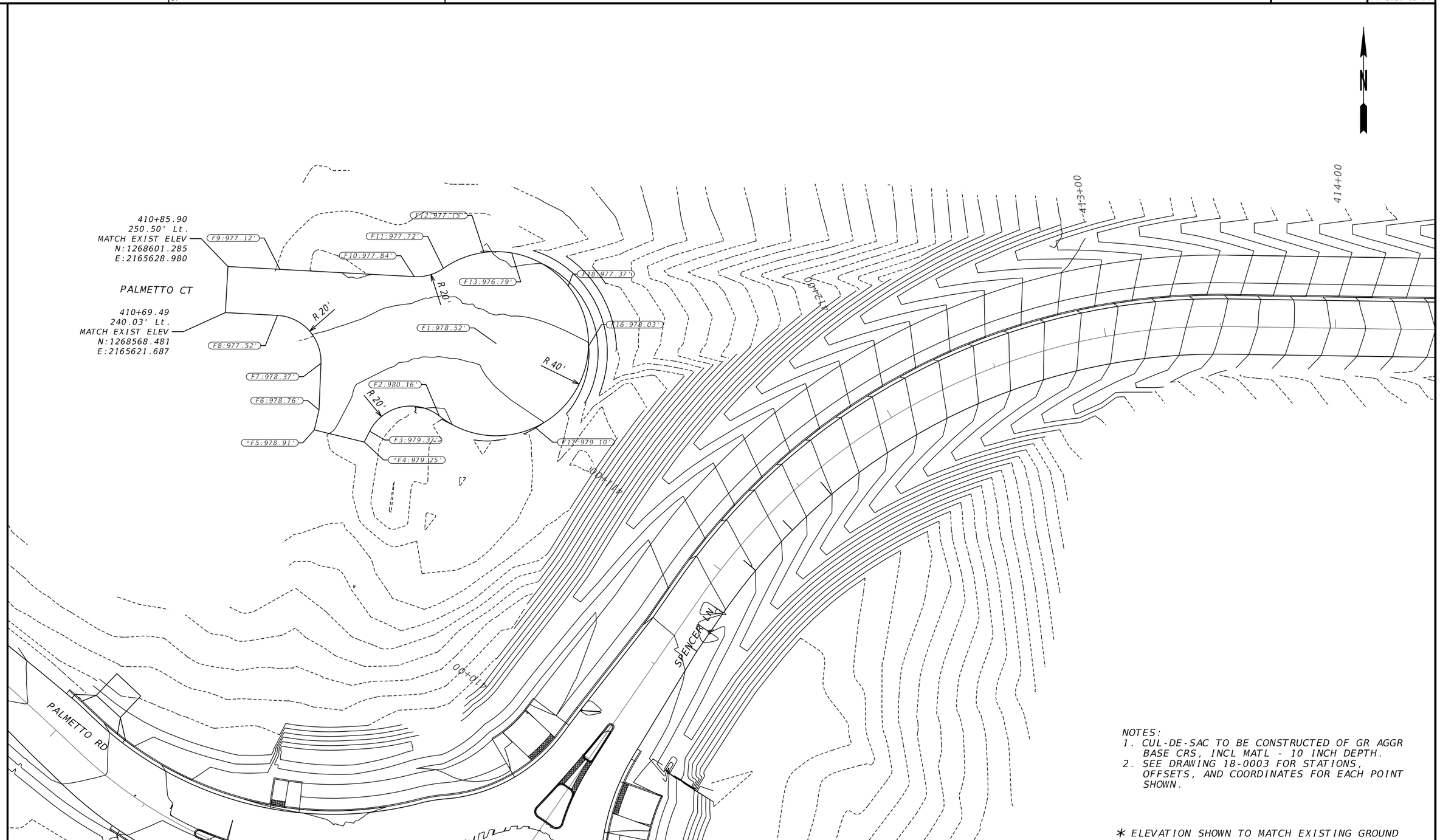
SCALE IN FEET
0 20 40 80

REVISION DATES

SPECIAL GRADING
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		18-0001
VERIFIED:		DATE:		

GPLN-CE
11/05/2020



NOTES:
1. CUL-DE-SAC TO BE CONSTRUCTED OF GR AGGR BASE CRS, INCL MATL - 10 INCH DEPTH.
2. SEE DRAWING 18-0003 FOR STATIONS, OFFSETS, AND COORDINATES FOR EACH POINT SHOWN.

* ELEVATION SHOWN TO MATCH EXISTING GROUND

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES

SPECIAL GRADING
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		18-0002
VERIFIED:		DATE:		

GPLN-CE
11/05/2020

PALMETTO ROAD					
Point	Station	Offset	Northing	Easting	Point
A1	107+35.00	15.00	1268214.942	2165889.804	967.69
A2	107+74.90	15.00	1268243.065	2165857.467	967.80
A3	107+92.76	15.00	1268253.368	2165842.882	967.86
A4	107+34.87	1.50	1268205.604	2165880.053	967.96
A5	107+74.03	1.50	1268231.529	2165850.396	968.07
A6	107+93.02	2.18	1268243.051	2165835.272	968.12
A7	108+30.05	7.00	1268268.349	2165807.814	968.28
A8	108+23.50	21.59	1268276.481	2165821.581	968.11
A9	107+35.00	-15.00	1268194.400	2165867.939	967.69
A10	107+34.87	-1.50	1268203.552	2165877.865	967.96
A11	107+74.90	-15.00	1268218.562	2165840.157	967.80
A12	107+81.68	-15.00	1268222.471	2165834.625	967.82
A13	107+81.75	-1.50	1268233.539	2165842.355	968.09
A14	107+74.90	-1.50	1268229.588	2165847.947	968.13
A15	108+29.67	-6.28	1268257.286	2165800.455	968.22
A16	108+22.06	-23.52	1268238.817	2165796.725	967.95
A17	108+33.58	-3.27	1268261.996	2165799.000	968.26
A18	108+33.61	3.88	1268267.858	2165803.102	968.30

PALMETTO ROAD					
Point	Station	Offset	Northing	Easting	Elevation
B1	209+69.95	11.51	1268341.627	2165687.204	968.35
B2	209+77.23	29.59	1268361.109	2165687.801	967.97
B3	210+23.09	2.12	1268354.435	2165634.863	968.67
B4	209+63.37	36.00	1268361.419	2165703.072	967.91
B5	210+56.72	16.45	1268382.903	2165614.415	969.22
B6	209+96.55	4.60	1268345.988	2165660.068	968.44
B7	209+65.98	8.30	1268337.097	2165689.552	968.11
B8	210+22.96	-1.73	1268350.901	2165633.329	968.61
B9	210+08.47	-1.04	1268345.611	2165646.887	968.36
B10	209+96.42	-0.86	1268340.936	2165657.994	968.22
B11	209+70.47	-6.36	1268325.481	2165679.550	968.36
B12	210+18.31	-15.10	1268336.728	2165632.152	968.25
B13	210+56.00	-15.65	1268356.209	2165596.573	969.22
B14	209+77.85	-23.12	1268313.094	2165666.060	967.70
B15	209+66.41	-3.40	1268326.559	2165684.457	967.95

ARROWOOD ROAD					
Point	Station	Offset	Northing	Easting	Elevation
C1	307+74.37	1.50	1268191.998	2165688.12	965.25
C2	307+93.71	15.00	1268202.698	2165708.384	965.13
C3	307+97.53	15.00	1268206.044	2165710.232	965.40
C4	308+03.54	1.67	1268217.747	2165701.468	965.72
C5	307+97.93	1.49	1268212.927	2165698.602	966.03
C6	308+22.73	20.08	1268225.646	2165726.865	966.22
C7	308+29.28	4.51	1268238.906	2165716.402	966.51
C8	307+76.79	-1.50	1268195.42	2165686.346	966.70
C9	308+03.43	-3.83	1268220.312	2165696.604	966.74
C10	308+30.12	-8.42	1268245.897	2165705.489	967.28
C11	308+23.23	-23.47	1268247.137	2165688.98	967.06
C12	307+87.24	-15.00	1268211.061	2165678.861	967.61
C13	307+76.64	-15.00	1268200.765	2165673.948	967.53
C14	308+33.52	1.62	1268244.017	2165715.917	967.72
C15	308+33.71	-5.24	1268247.497	2165710.003	967.68

SPENCER LANE					
Point	Station	Offset	Northing	Easting	Elevation
D1	410+16.79	-1.57	1268399.918	2165811.818	968.76
D2	410+15.00	-15.00	1268406.091	2165799.754	968.50
D3	410+00.49	-2.87	1268387.255	2165801.466	968.79
D4	409+82.23	-4.97	1268373.443	2165789.353	968.82
D5	409+82.40	3.84	1268368.567	2165796.691	968.85
D6	410+00.42	2.08	1268384.377	2165805.500	968.81
D7	410+16.75	1.43	1268398.185	2165814.261	968.76
D8	410+13.82	1.55	1268395.703	2165812.686	968.78
D9	409+66.39	3.82	1268355.408	2165787.568	968.95
D10	409+74.65	25.02	1268350.141	2165809.695	968.65
D11	409+70.29	6.86	1268356.888	2165792.281	968.90
D12	409+69.87	-6.78	1268364.303	2165780.826	968.86
D13	409+74.59	-22.19	1268376.956	2165770.844	968.59
D14	410+01.69	-15.54	1268395.453	2165791.732	968.53
D15	410+14.37	15.03	1268388.479	2165824.091	968.50
D16	409+66.40	-3.65	1268359.672	2165781.424	968.91

INSCRIBED CIRCLE					
Point	Station	Offset	Northing	Easting	Elevation
E1	500+09.03	0.00	1268311.993	2165811.016	968.57
E2	500+10.06	-20.00	1268309.927	2165791.104	969.09
E3	501+12.33	0.01	1268367.202	2165736.451	968.39
E4	501+09.66	-20.00	1268347.69	2165741.418	968.91
E5	502+25.62	-20.00	1268288.431	2165704.063	968.03
E6	502+25.49	0.02	1268282.085	2165685.078	967.55
E7	503+18.10	-20.00	1268258.733	2165754.761	968.42
E8	503+18.30	0.00	1268239.098	2165758.571	968.00
E9	503+68.43	-20.00	1268277.029	2165783.395	968.69
E10	500+62.75	-20.00	1268339.996	2165772.251	969.42
E11	501+77.34	-20.00	1268321.069	2165705.431	968.47
E12	502+71.69	-20.00	1268264.226	2165723.794	968.24

PALMETTO COURT CUL-DE-SAC					
Point	Station	Offset	Northing	Easting	Elevation
F1	411+11.94	-137.54	1268565.433	2165763.392	978.52
F2	410+85.35	-138.11	1268534.050	2165738.590	980.16
F3	410+62.79	-159.20	1268527.455	2165708.378	979.37
F4	410+57.55	-158.50	1268522.747	2165705.973	979.25
F5	410+49.54	-179.32	1268528.010	2165684.293	978.91
F6	410+57.80	-182.50	1268536.610	2165686.383	978.76
F7	410+75.00	-193.42	1268556.965	2165687.195	978.37
F8	410+81.32	-220.78	1268577.733	2165668.294	977.52
F9	410+92.34	-231.42	1268597.703	2165669.378	977.13
F10	411+11.44	-183.52	1268594.535	2165727.785	977.84
F11	411+18.05	-176.37	1268598.148	2165740.376	977.72
F12	411+28.52	-168.07	1268605.074	2165758.041	977.15
F13	411+33.67	-159.35	1268604.877	2165770.039	976.79
F16	411+29.91	-107.15	1268564.319	2165803.376	978.03
F17	410+99.67	-101.63	1268529.133	2165780.193	979.10
F18	411+38.46	-131.88	1268590.494	2165794.568	977.37
F19	411+37.14	-164.75	1268612.605	2165770.166	976.89
F20	411+31.99	-173.36	1268612.802	2165758.167	976.94
F21	412+86.78	-62.22	1268626.547	2166001.055	957.65
F22	412+84.41	-50.56	1268614.547	2166000.949	957.85
F23	412+87.00	-46.58	1268611.372	2166004.828	957.38
F24	412+97.25	-46.58	1268613.844	2166016.571	956.26
F25	412+86.74	-31.00	1268596.121	2166008.039	956.04
F26	412+97.51	-31.00	1268598.593	2166019.782	955.36

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

SPECIAL GRADING
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	18-0003

BEGIN PROJECT PALMETTO ROAD
BEGIN CONSTRUCTION
STA 101+43.00

BEGIN CONSTRUCTION ARROWOOD RD
STA 306+50.00

END CONSTRUCTION
END PROJECT PALMETTO ROAD
STA 212+17.00

END CONSTRUCTION SPENCER LN
STA 416+00.00

STAGE 1
1. INSTALL VARIABLE MESSAGE BOARDS ALONG ALL APPROACHES TO INTERSECTION PALMETTO ROAD, SPENCER ROAD, AND ARROWOOD ROAD

2. REDUCE POSTED SPEED ALONG PALMETTO ROAD, SPENCER ROAD, AND ARROWOOD ROAD TO 25 MPH IN WORK ZONE.

3. MAINTAIN TRAFFIC ON EXISTING LANES ALONG PALMETTO ROAD, SPENCER ROAD, AND ARROWOOD ROAD AS SHOWN.

4. CONSTRUCT PERMANENT AS SHOWN.

CONSTRUCTION STAGE 1

LEGEND

- OPEN LANES OF TRAFFIC
- PERMANENT FULL DEPTH CONSTRUCTION
- PERMANENT MILL/OVERLAY CONSTRUCTION
- ORANGE BARRIER FENCE
- RAISED MEDIAN CONSTRUCTION
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT
- ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

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SCALE IN FEET
0 50 100 200

REVISION DATES

CONSTRUCTION STAGING PLAN
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		19-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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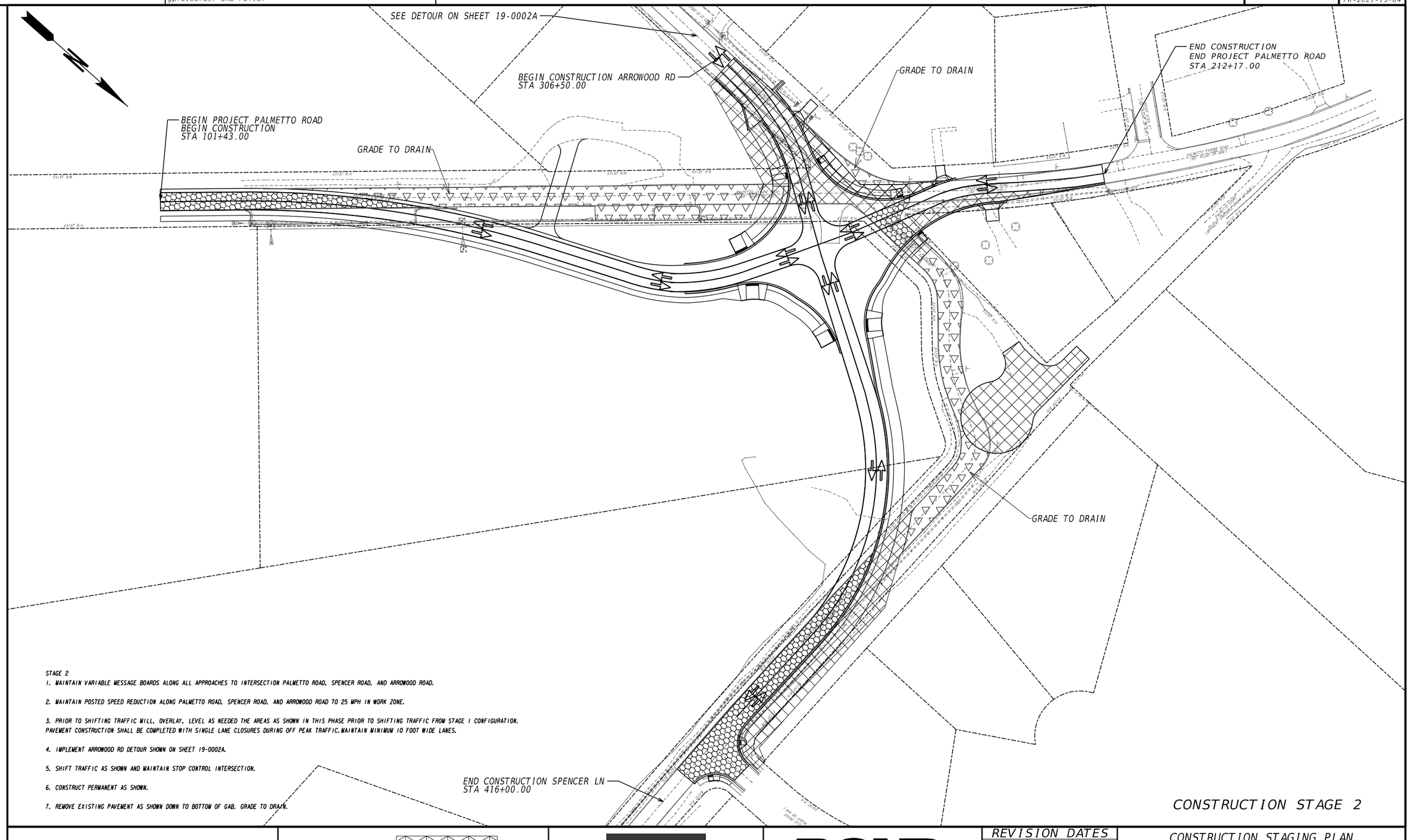
11/05/2020



STAGE 2

1. MAINTAIN VARIABLE MESSAGE BOARDS ALONG ALL APPROACHES TO INTERSECTION PALMETTO ROAD, SPENCER ROAD, AND ARROWOOD ROAD.
2. MAINTAIN POSTED SPEED REDUCTION ALONG PALMETTO ROAD, SPENCER ROAD, AND ARROWOOD ROAD TO 25 MPH IN WORK ZONE.
3. PRIOR TO SHIFTING TRAFFIC MILL, OVERLAY, LEVEL AS NEEDED THE AREAS AS SHOWN IN THIS PHASE PRIOR TO SHIFTING TRAFFIC FROM STAGE 1 CONFIGURATION. PAVEMENT CONSTRUCTION SHALL BE COMPLETED WITH SINGLE LANE CLOSURES DURING OFF PEAK TRAFFIC. MAINTAIN MINIMUM 10 FOOT WIDE LANES.
4. IMPLEMENT ARROWOOD RD DETOUR SHOWN ON SHEET 19-0002A.
5. SHIFT TRAFFIC AS SHOWN AND MAINTAIN STOP CONTROL INTERSECTION.
6. CONSTRUCT PERMANENT AS SHOWN.
7. REMOVE EXISTING PAVEMENT AS SHOWN DOWN TO BOTTOM OF GAB. GRADE TO DRAIN.

LEGEND

- OPEN LANES OF TRAFFIC
- PERMANENT FULL DEPTH CONSTRUCTION
- PERMANENT MILL/OVERLAY CONSTRUCTION
- ORANGE BARRIER FENCE
- RAISED MEDIAN CONSTRUCTION
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT
- ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

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SCALE IN FEET
0 50 100 200

REVISION DATES

CONSTRUCTION STAGE 2

CONSTRUCTION STAGING PLAN
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		19-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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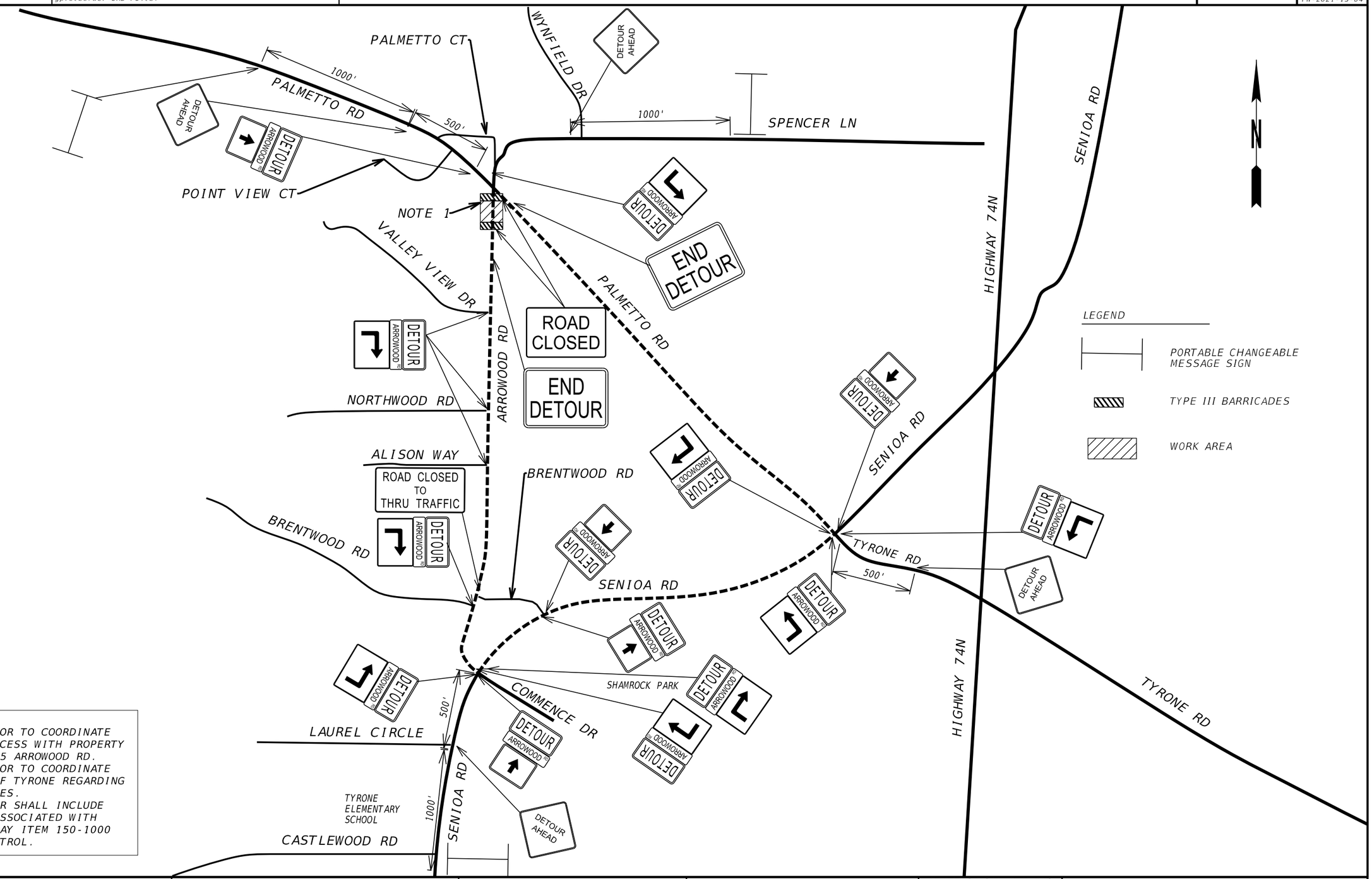

NOTES:
1. CONTRACTOR TO COORDINATE DRIVEWAY ACCESS WITH PROPERTY OWNER AT 105 ARROWOOD RD.
2. CONTRACTOR TO COORDINATE WITH TOWN OF TYRONE REGARDING PCMS MESSAGES.
3. CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH DETOUR IN PAY ITEM 150-1000 TRAFFIC CONTROL.

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SCALE IN FEET
0 300 600 1200

REVISION DATES		

CONSTRUCTION STAGING PROFILE
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		19-002A
VERIFIED:		DATE:		

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11/05/2020

BEGIN PROJECT PALMETTO ROAD
BEGIN CONSTRUCTION
STA 101+43.00

BEGIN CONSTRUCTION ARROWOOD RD
STA 306+50.00

END CONSTRUCTION
END PROJECT PALMETTO ROAD
STA 212+17.00

END CONSTRUCTION SPENCER LN
STA 416+00.00

STAGE 3
1. MAINTAIN VARIABLE MESSAGE BOARDS ALONG ALL APPROACHES TO INTERSECTION PALMETTO ROAD, SPENCER ROAD, AND ARROWOOD ROAD.

2. MAINTAIN POSTED SPEED REDUCTION ALONG PALMETTO ROAD, SPENCER ROAD, AND ARROWOOD ROAD TO 25 MPH IN WORK ZONE.

3. REMOVE ALL WAY STOP AND SHIFT TRAFFIC TO ROUNDABOUT CONFIGURATION AS SHOWN. MAINTAIN MINIMUM LANE WIDTH OF 10 FT.

4. BUILD RAISED ISLANDS AS SHOWN.

CONSTRUCTION STAGE 3

LEGEND

- OPEN LANES OF TRAFFIC
- PERMANENT FULL DEPTH CONSTRUCTION
- PERMANENT MILL/OVERLAY CONSTRUCTION
- ORANGE BARRIER FENCE
- RAISED MEDIAN CONSTRUCTION
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT
- ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

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SCALE IN FEET
0 50 100 200

REVISION DATES

CONSTRUCTION STAGING PLAN
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		19-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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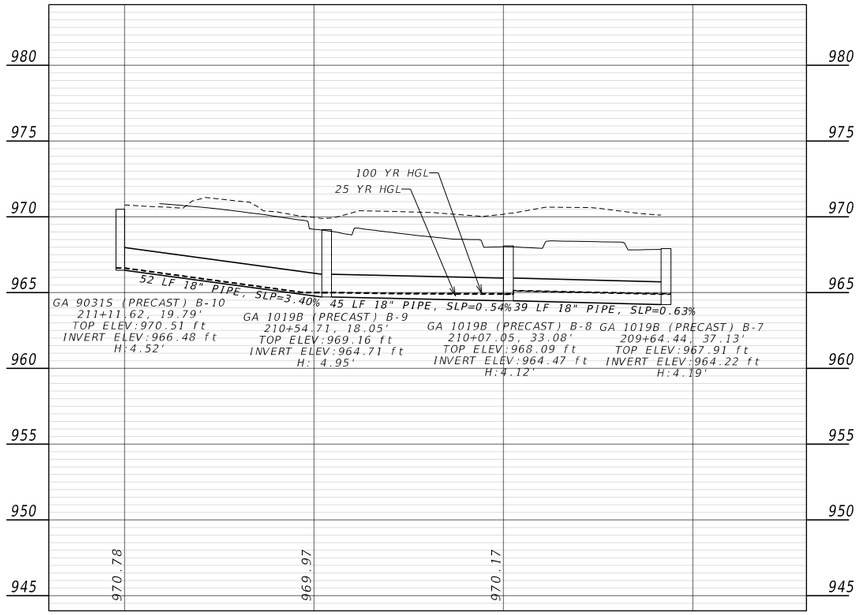

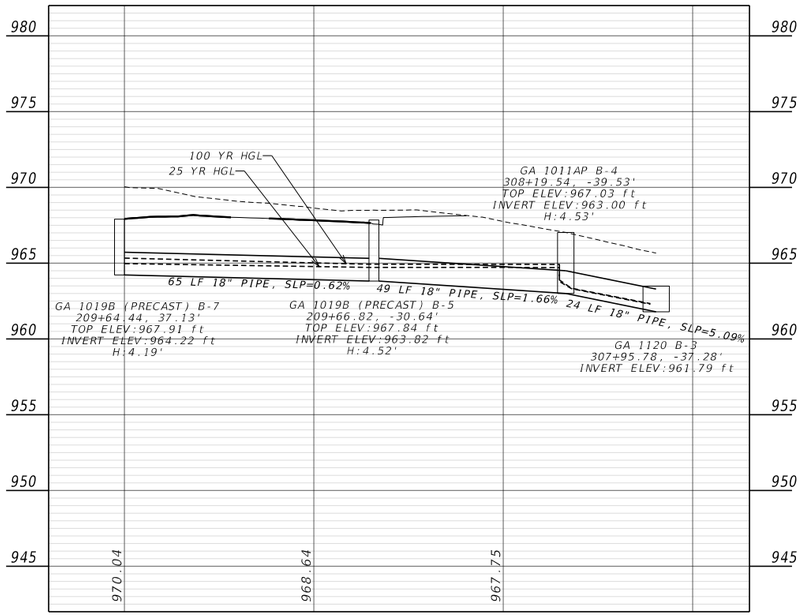

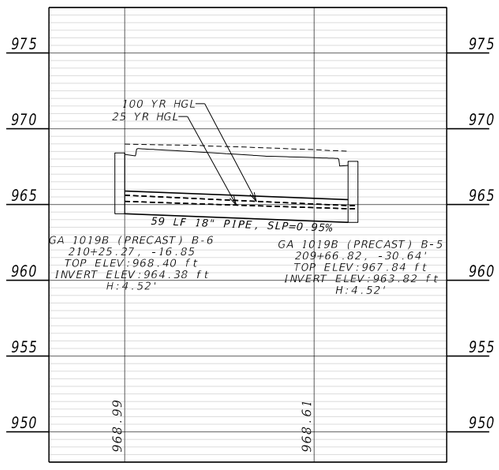

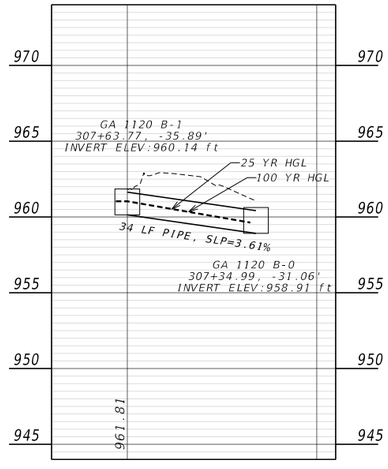

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SCALE 1 INCH = 10 FEET VERT.
SCALE 1 INCH = 40 FEET HORZ.

REVISION DATES

DRAINAGE PROFILES
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		22-0001
VERIFIED:		DATE:		

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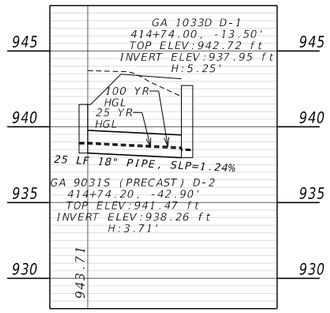

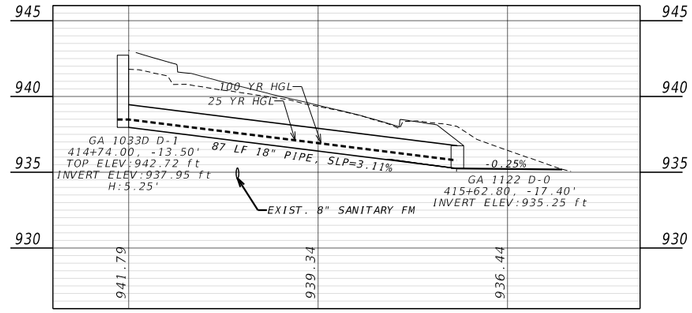

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SCALE 1 INCH = 10 FEET VERT.
SCALE 1 INCH = 40 FEET HORZ.

REVISION DATES

DRAINAGE PROFILES
PALMETTO ROAD AT
ARROWOOD/SPENCER

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BACKCHECKED:		DATE:		22-0002
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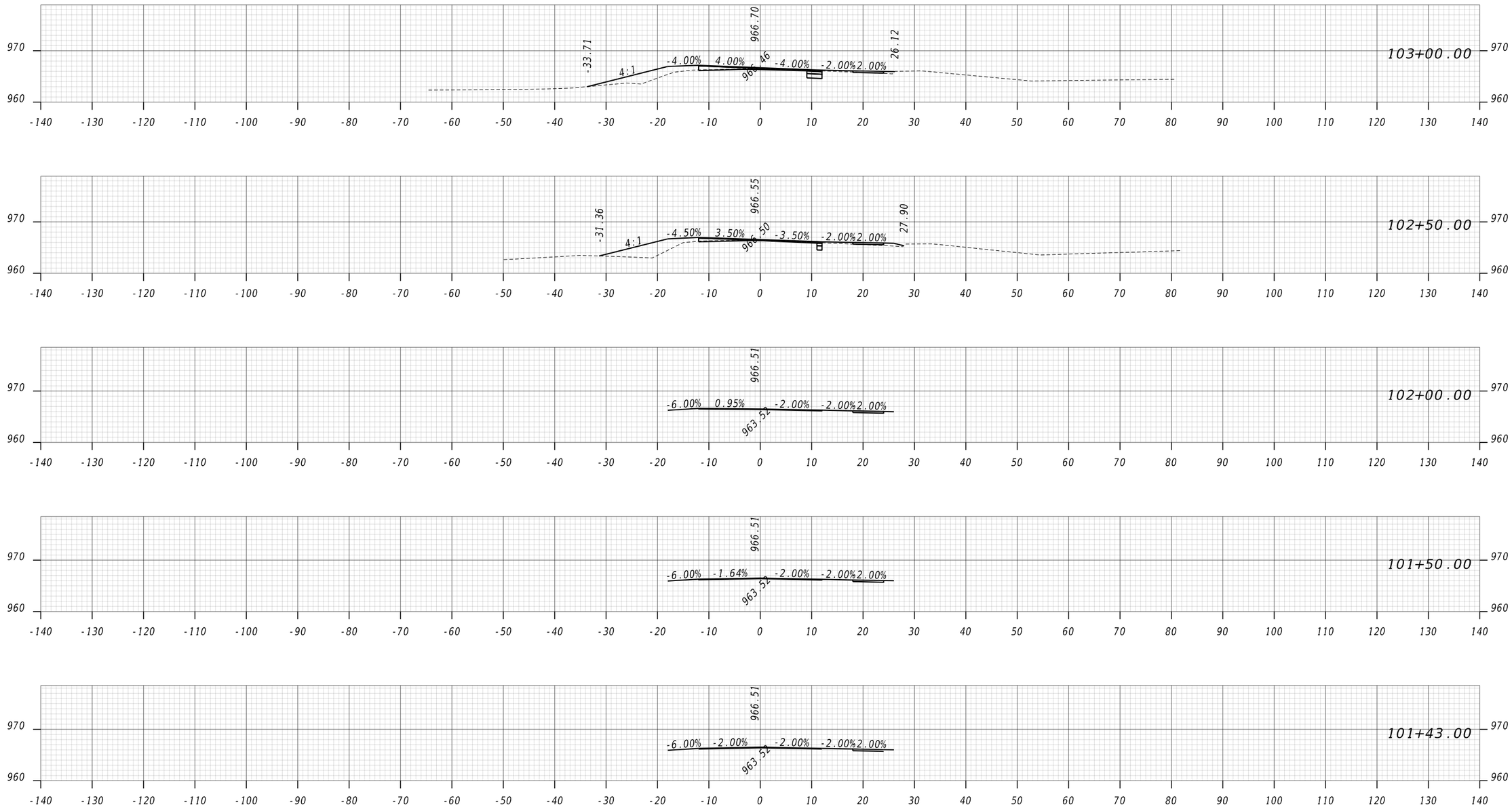
VERIFIED:		DATE:		



CONTRACTOR TO VERIFY EXISTING TOPOGRAPHY PRIOR TO BEGINNING CONSTRUCTION

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SCALE IN FEET
0 10 20 40

REVISION DATES

EARTHWORK CROSS SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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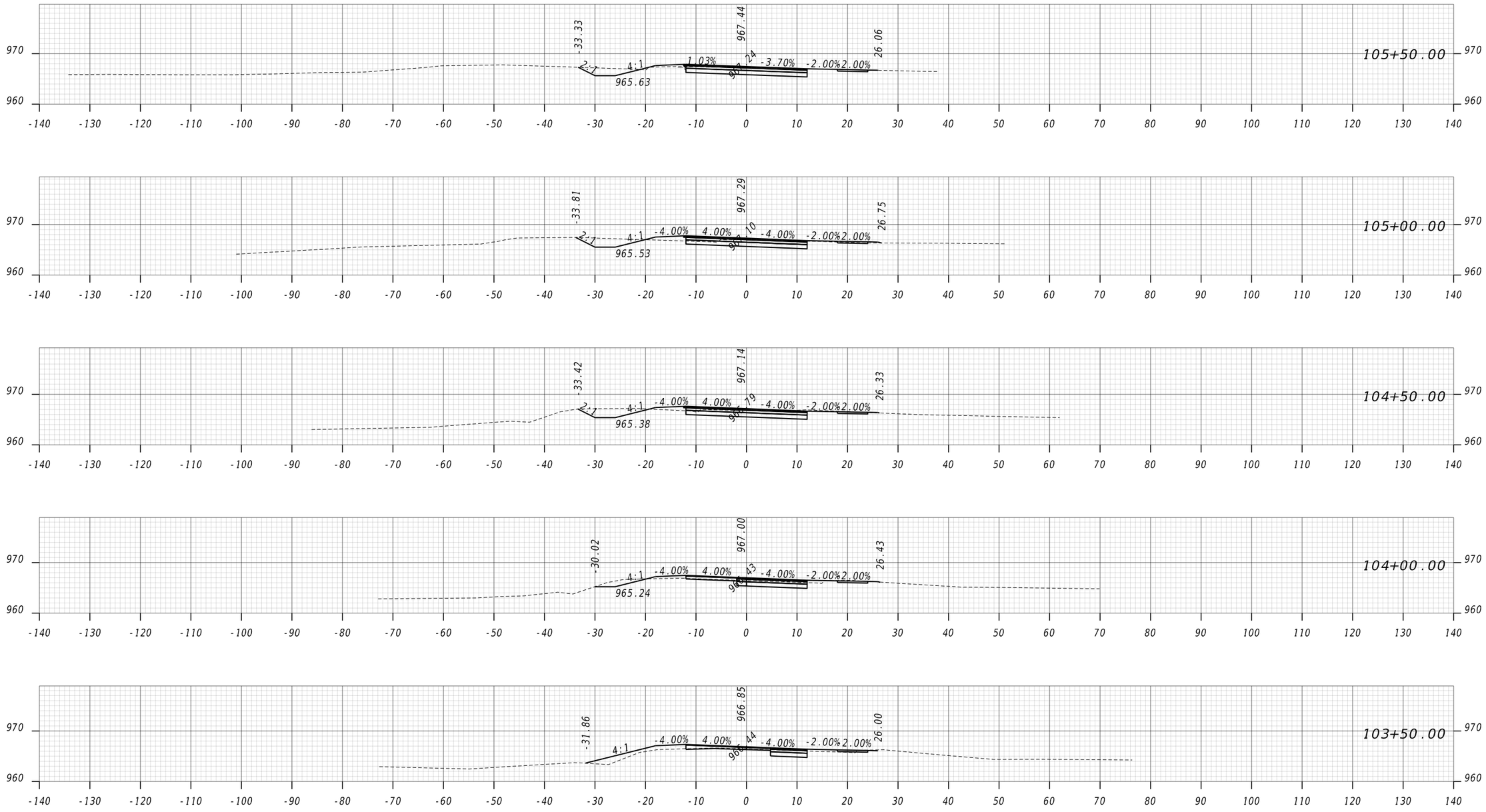

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SCALE IN FEET
0 10 20 40

REVISION DATES

EARTHWORK CROSS SECTIONS
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0002
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VERIFIED:		DATE:		

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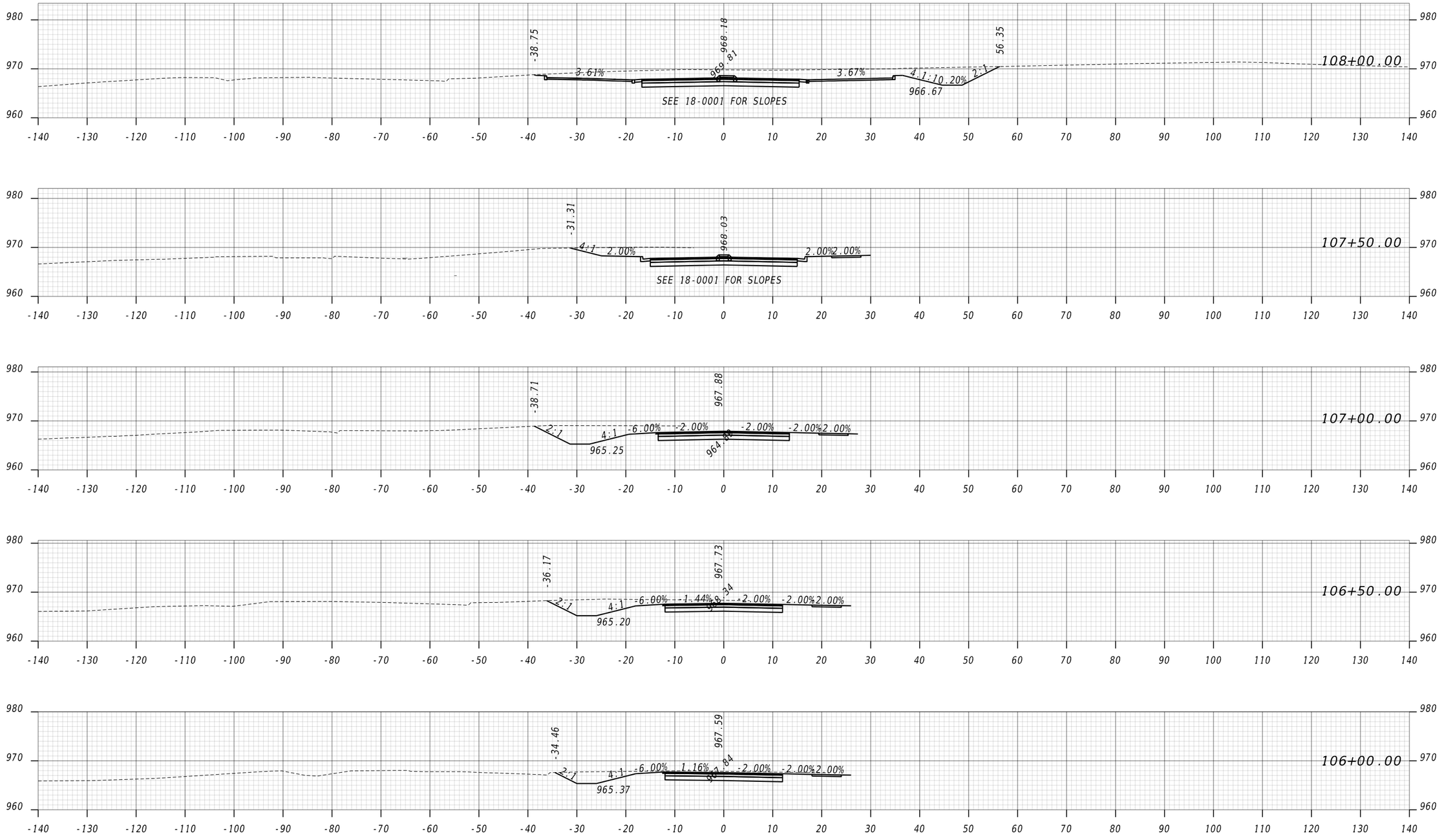

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SCALE IN FEET
0 10 20 40

REVISION DATES

EARTHWORK CROSS SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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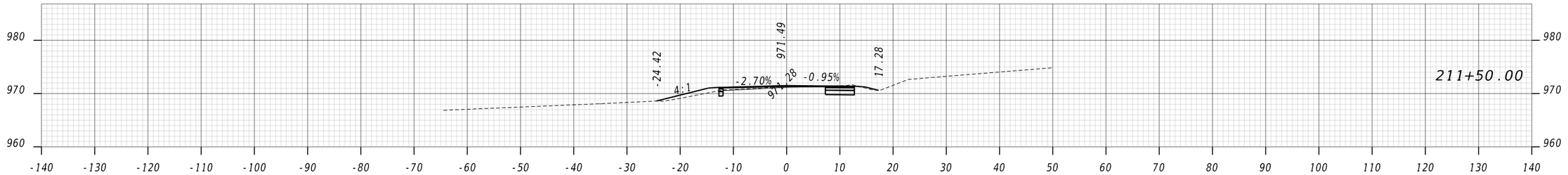

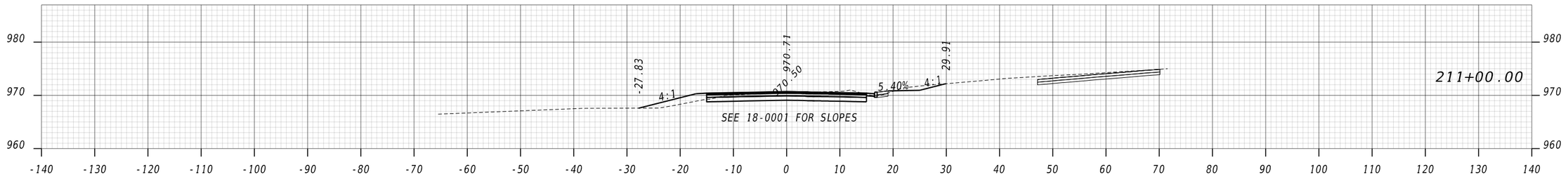

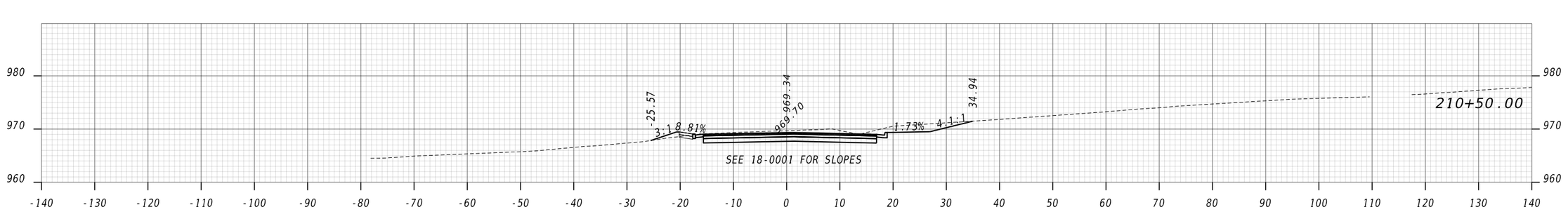

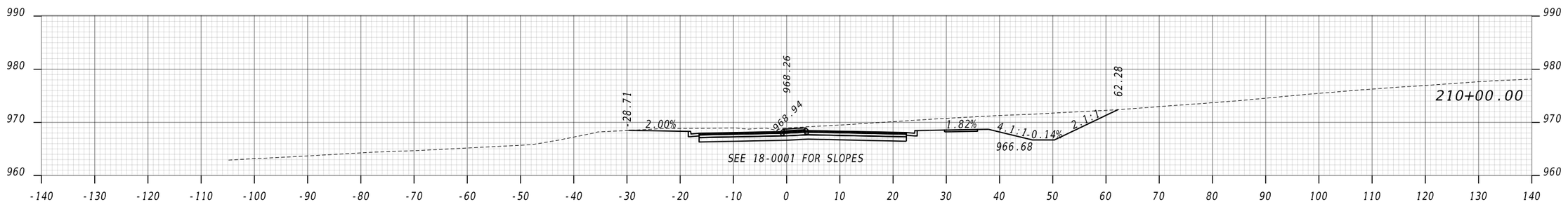

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SCALE IN FEET
0 10 20 40

REVISION DATES

EARTHWORK CROSS SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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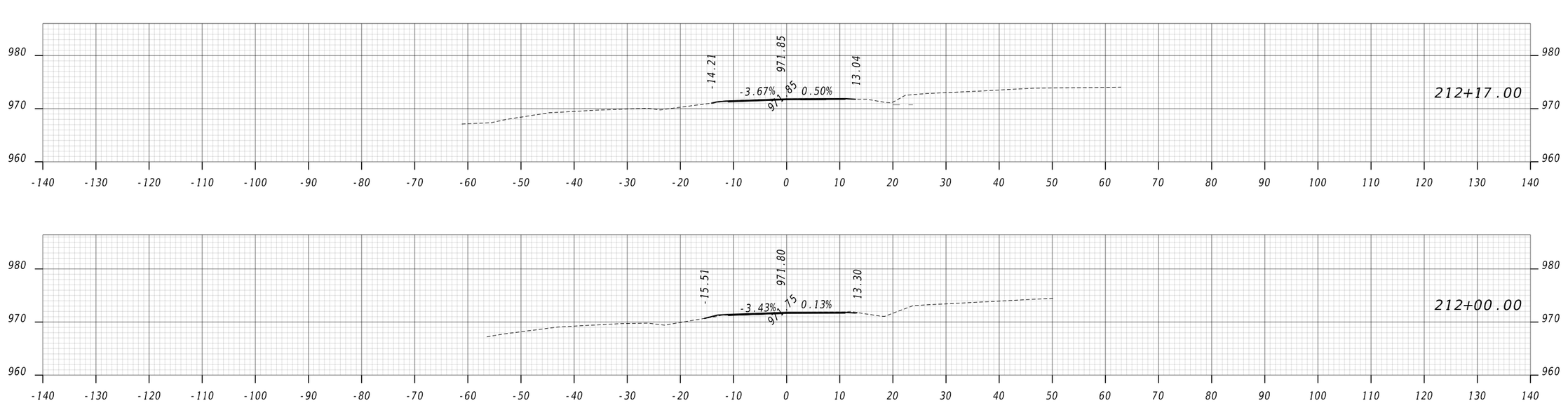
11/05/2020



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SCALE IN FEET
0 10 20 40

REVISION DATES		

EARTHWORK CROSS SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		23-0005
VERIFIED:		DATE:		

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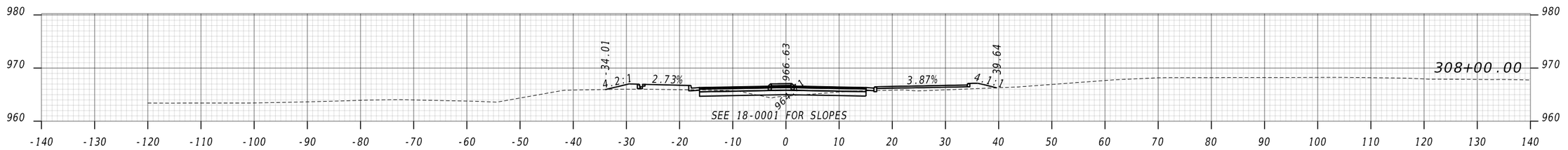
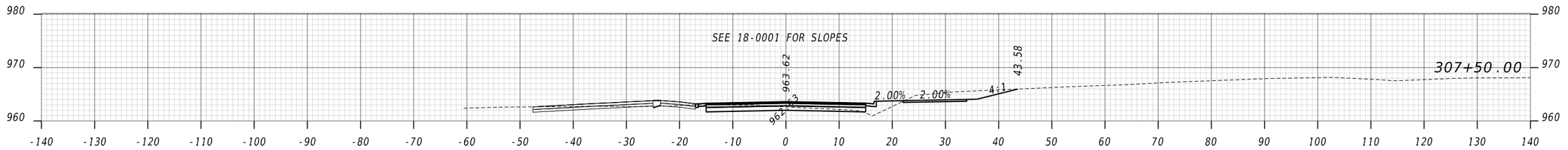
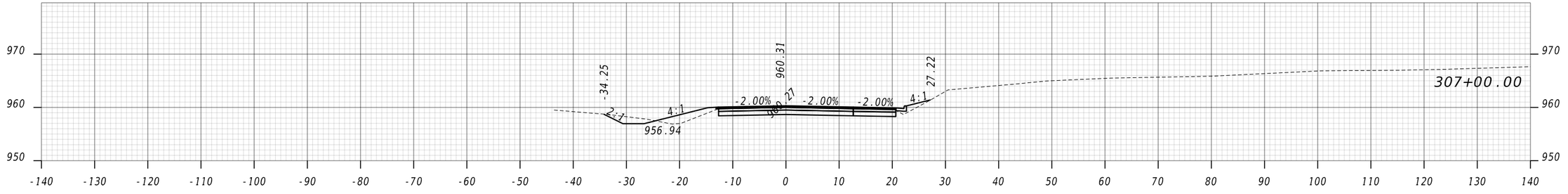
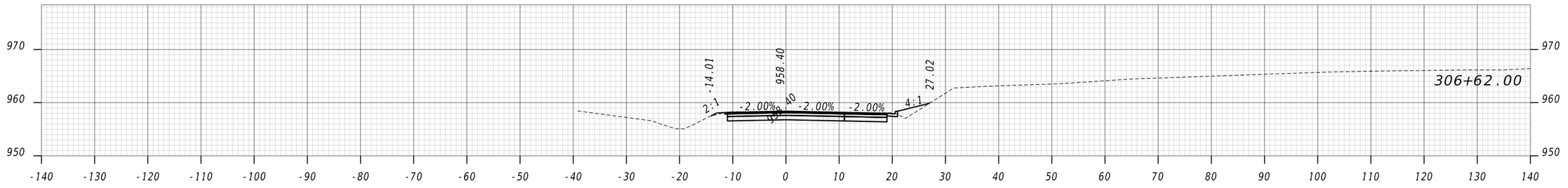
11/05/2020









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SCALE IN FEET
0 10 20 40

REVISION DATES

EARTHWORK CROSS SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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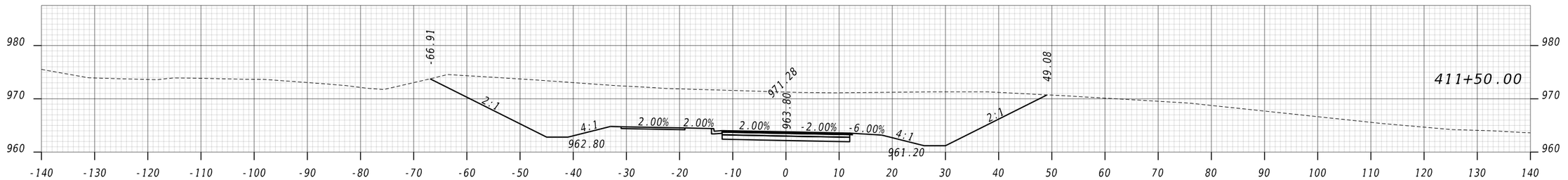
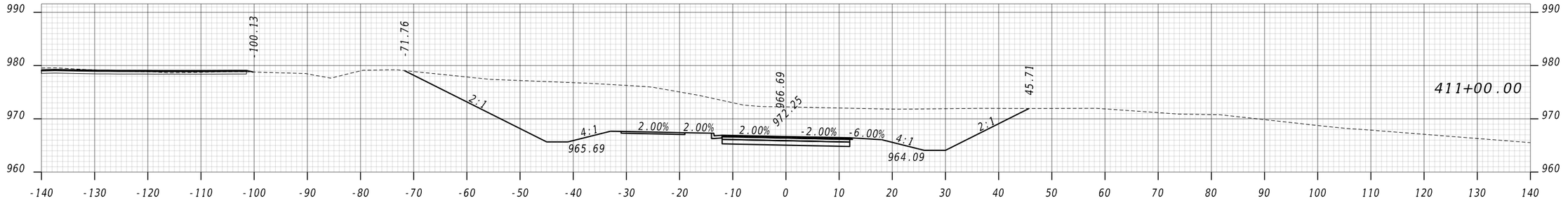
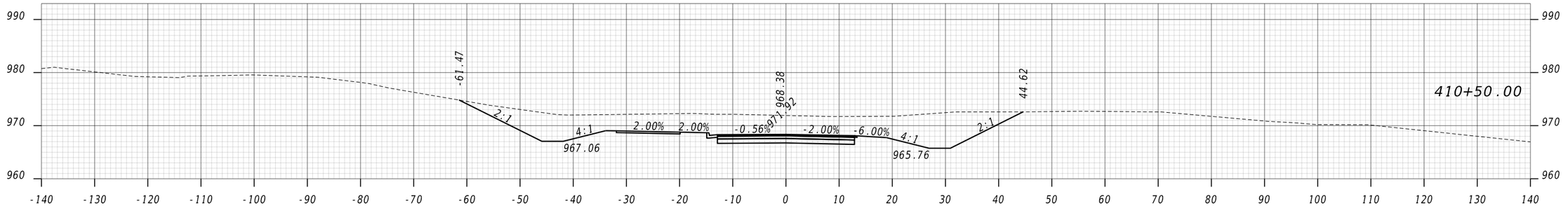
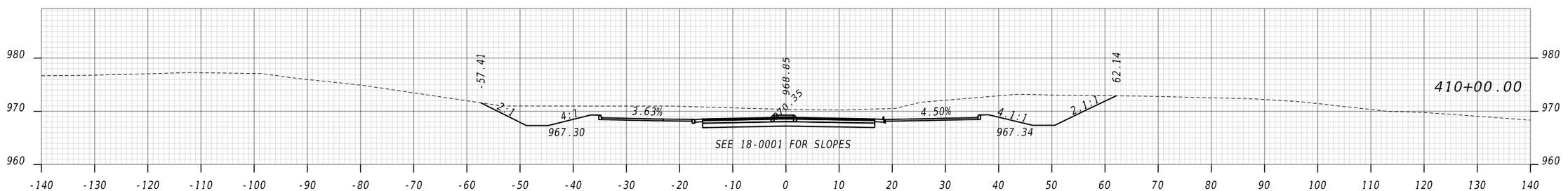
11/05/2020









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SCALE IN FEET
0 10 20 40

REVISION DATES

EARTHWORK CROSS SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0007
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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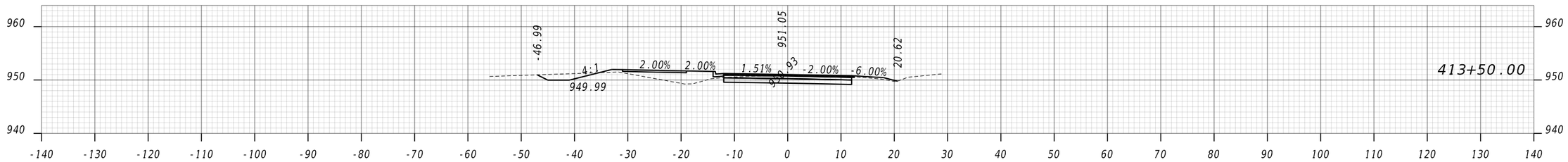

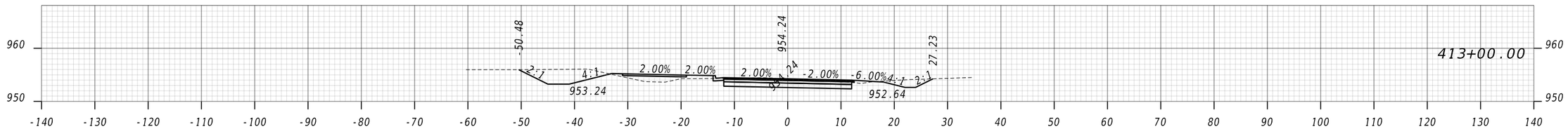

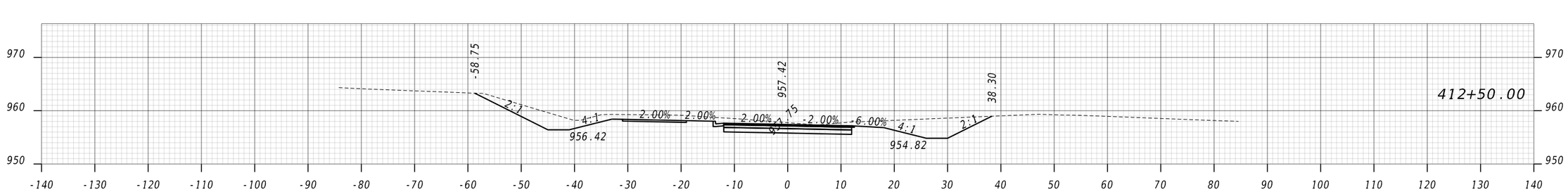

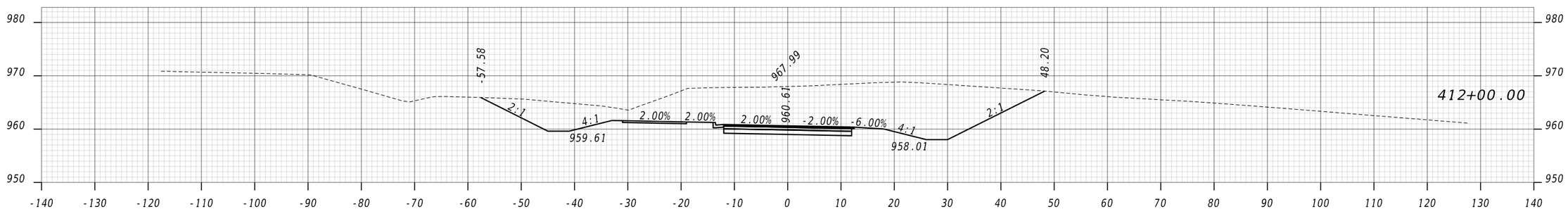

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REVISION DATES

EARTHWORK CROSS SECTIONS
PALMETTO ROAD AT
ARROWOOD/SPENCER

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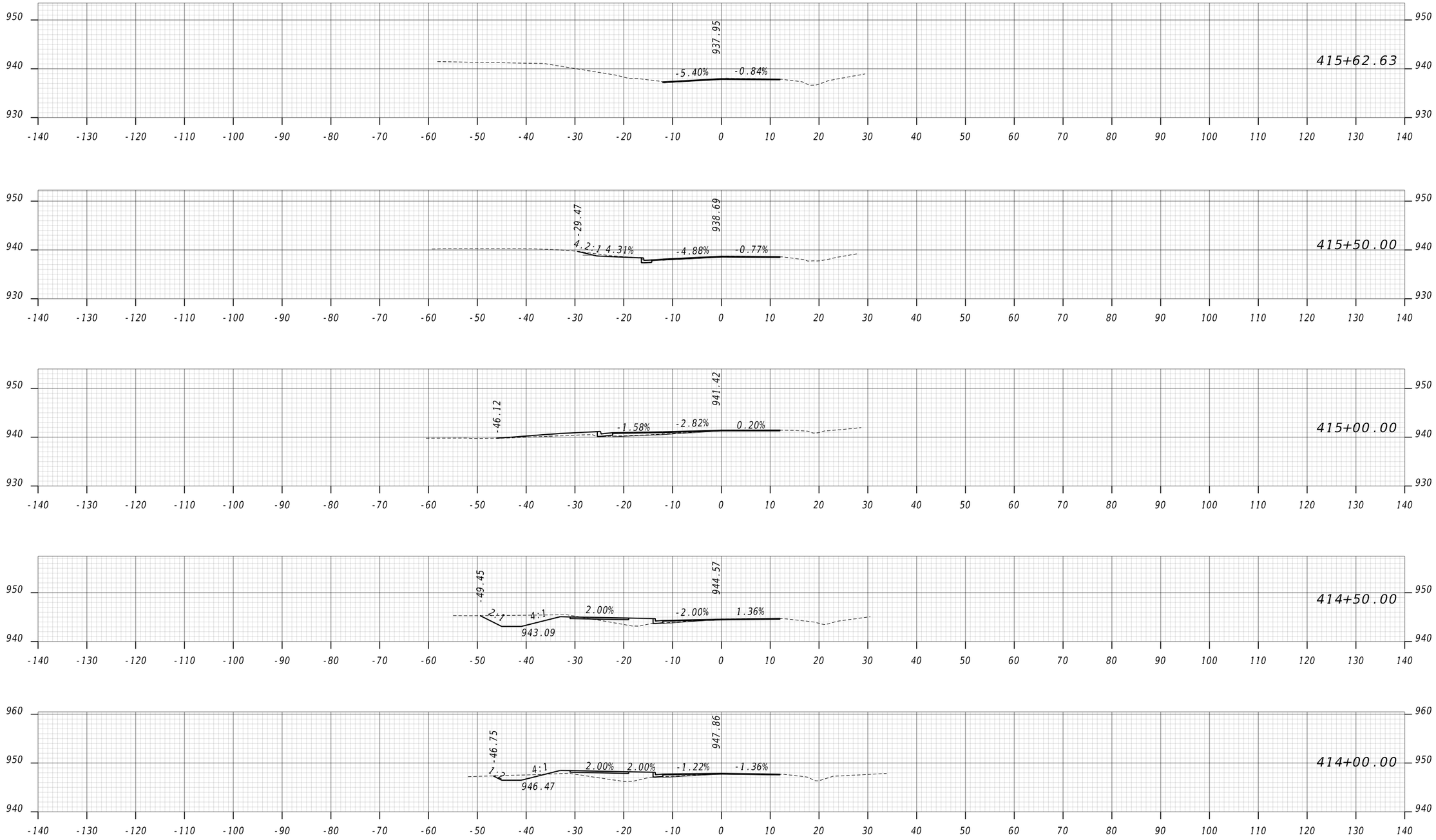

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UTILITY LINECODES

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
OVERHEAD	E	E	E	ELECTRIC
	E-T	E-T	E-T	ELECTRIC/TELECOMMUNICATIONS
	E-TV	E-TV	E-TV	ELECTRIC/CABLE TV
	E-TC	E-TC	E-TC	ELECTRIC/TRAFFIC CONTROL
	E-T-TV	E-T-TV	E-T-TV	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
	E-T-TV-TC	E-T-TV-TC	E-T-TV-TC	ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
	E-TV-TC	E-TV-TC	E-TV-TC	ELECTRIC/CABLE TV/TRAFFIC CONTROL
	E-T-TC	E-T-TC	E-T-TC	ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
	GW	GW	GW	GUY WIRE
	T	T	T	TELECOMMUNICATIONS
	T-TC	T-TC	T-TC	TELECOMMUNICATIONS/TRAFFIC CONTROL
	T-TV-TC	T-TV-TC	T-TV-TC	TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
	T-TV	T-TV	T-TV	TELECOMMUNICATIONS/CABLE TV
	TV	TV	TV	CABLE TV
	TV-TC	TV-TC	TV-TC	CABLE TV/TRAFFIC CONTROL
	TC	TC	TC	TRAFFIC CONTROL
UNDERGROUND	E	E	E	ELECTRIC (QL-D)
	E(C)	E(C)		ELECTRIC (QL-C)
	E(B)	E(B)		ELECTRIC (QL-B)
	T	T	T	TELECOMMUNICATIONS (QL-D)
	T(C)	T(C)		TELECOMMUNICATIONS (QL-C)
	T(B)	T(B)		TELECOMMUNICATIONS (QL-B)
	TV	TV	TV	CABLE TV (QL-D)
	TV(C)	TV(C)		CABLE TV (QL-C)
	TV(B)	TV(B)		CABLE TV (QL-B)
	W	W	W	WATER (QL-D)
	W(C)	W(C)		WATER (QL-C)
	W(B)	W(B)		WATER (QL-B)
	**W	**W	**W	WATER FOR LABELED PIPE SIZES (QL-D)
	**W(C)	**W(C)		WATER FOR LABELED PIPE SIZES (QL-C)
	**W(B)	**W(B)		WATER FOR LABELED PIPE SIZES (QL-B)
	NW	NW	NW	NON-POTABLE WATER (QL-D)
	NW(C)	NW(C)		NON-POTABLE WATER (QL-C)
	NW(B)	NW(B)		NON-POTABLE WATER (QL-B)
	**NW	**NW	**NW	NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D)
	**NW(C)	**NW(C)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-C)
	**NW(B)	**NW(B)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-B)
	STM	STM	STM	STEAM (QL-D)
	STM(C)	STM(C)		STEAM (QL-C)
	STM(B)	STM(B)		STEAM (QL-B)
	**STM	**STM	**STM	STEAM FOR LABELED PIPE SIZES (QL-D)
	**STM(C)	**STM(C)		STEAM FOR LABELED PIPE SIZES (QL-C)
	**STM(B)	**STM(B)		STEAM FOR LABELED PIPE SIZES (QL-B)
	SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION (QL-D)
	SS(C)	SS(C)		SANITARY SEWER WITH FLOW DIRECTION (QL-C)
	SS(B)	SS(B)		SANITARY SEWER WITH FLOW DIRECTION (QL-B)
	Σ**SS	Σ**SS	Σ**SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
	Σ**SS(C)	Σ**SS(C)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C)
	Σ**SS(B)	Σ**SS(B)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-B)
	SFM	SFM	SFM	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-D)
	SFM(C)	SFM(C)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-C)
	SFM(B)	SFM(B)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-B)
	CS	CS		COMBINED SANITARY SEWER WITH FLOW DIRECTION
	G	G	G	GAS (QL-D)
	G(C)	G(C)		GAS (QL-C)
	G(B)	G(B)		GAS (QL-B)
	**G	**G	**G	GAS FOR LABELED PIPE SIZES (QL-D)
	**G(C)	**G(C)		GAS FOR LABELED PIPE SIZES (QL-C)
	**G(B)	**G(B)		GAS FOR LABELED PIPE SIZES (QL-B)
	P	P	P	PETROLEUM (QL-D)
	P(C)	P(C)		PETROLEUM (QL-C)
	P(B)	P(B)		PETROLEUM (QL-B)
	**P	**P	**P	PETROLEUM FOR LABELED PIPE SIZES (QL-D)
	**P(C)	**P(C)		PETROLEUM FOR LABELED PIPE SIZES (QL-C)
	**P(B)	**P(B)		PETROLEUM FOR LABELED PIPE SIZES (QL-B)
	TC	FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS		TRAFFIC CONTROL (QL-D)
	TC(C)			TRAFFIC CONTROL (QL-C)
	TC(B)			TRAFFIC CONTROL (QL-B)
	UNK(B)	UNK(B)		UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (QL-B)

UTILITY SYMBOLS

EXISTING	PROPOSED	TEMPORARY	
			UTILITY POLE/GUY POLE
			VENT
			GUY ANCHOR
			LIGHT POLE
E	E	E	ELECTRIC MANHOLE
HE	HE	HE	ELECTRIC HAND HOLE
E	E	E	TRANSFORMER
E	E	E	ELECTRIC METER
E	E	E	ELECTRIC LINE MARKER U/G
E	E	E	ELECTRIC BOX
E			ELECTRIC YARD LIGHT POLE
T T	T T	T T	TRANSMISSION TOWER
T	T	T	TELECOMMUNICATIONS MANHOLE
HT	HT	HT	TELECOMMUNICATIONS HANDHOLE
T	T	T	TELECOMMUNICATIONS PEDESTAL
T	T	T	TELECOMMUNICATIONS LINE MARKER U/G
X	X	X	SPLICE BOX
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")
			PHONE BOOTH
HT	HT	HT	TELECOMMUNICATIONS CABINET
TV	TV	TV	CABLE TV CABINET
TV	TV	TV	CABLE TV MANHOLE
HTV	HTV	HTV	CABLE TV HANDHOLE
			CABLE TV PEDESTAL
			CABLE TV LINE MARKER U/G
			SATELLITE DISH
G			GAS YARD LIGHT POLE
G	G	G	GAS VALVE
G	G	G	GAS VALVE MARKER
G	G	G	GAS METER
G	G	G	GAS MANHOLE
GPR	GPR	GPR	GAS PRESSURE REGULATOR
G	G	G	GAS VAULT
GTS	GTS	GTS	GAS TEST STATION
G	G	G	GAS LINE MARKER U/G

EXISTING	PROPOSED	TEMPORARY	
P	P	P	PETROLEUM VALVE
P	P	P	PETROLEUM VALVE MARKER
P	P	P	PETROLEUM LINE MARKER U/G
W	W	W	WATER VALVE
W	W	W	WATER VALVE MARKER
W	W	W	WATER METER
W	W	W	WATER MANHOLE
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE
W	W	W	WATER VAULT
			STAND PIPE
			WATER LINE MARKER U/G
			CLEANOUT
SS	SS	SS	SANITARY SEWER MANHOLE
ARV	ARV	ARV	AIR RELEASE VALVE
GT	GT	GT	GREASE TRAP
S	S	S	SANITARY SEWER FORCE MAIN LINE MARKER U/G
S	S	S	SANITARY SEWER FORCE MAIN VALVE
S	S	S	SANITARY SEWER FORCE MAIN VALVE MARKER
TC	FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS		TRAFFIC CONTROL MANHOLE/ ELECTRIC COMMUNICATIONS BOX
			TRAFFIC CONTROL PEDESTRIAN SIGNAL/BUTTON POST
			TRAFFIC CONTROL CABINET
HTC			TRAFFIC CONTROL HANDHOLE/PULLBOX

MISCELLANEOUS

- LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
- TH — TEST HOLE (QL-A ONLY)
- 123 — POLE ID
- EOI — END OF INFORMATION
- 401 — SANITARY SEWER MANHOLE (SSMH) ID
- QUALITY LEVEL (QL) DELINEATION
- C123 — CONFLICT LOCATION (UTILITY IMPACT ANALYSIS (UIA) ONLY)

QUALITY LEVELS AND DEFINITIONS

QL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

QL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

TELEPHONE PAIR SIZE TABLE

TELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 IN

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UTILITY PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

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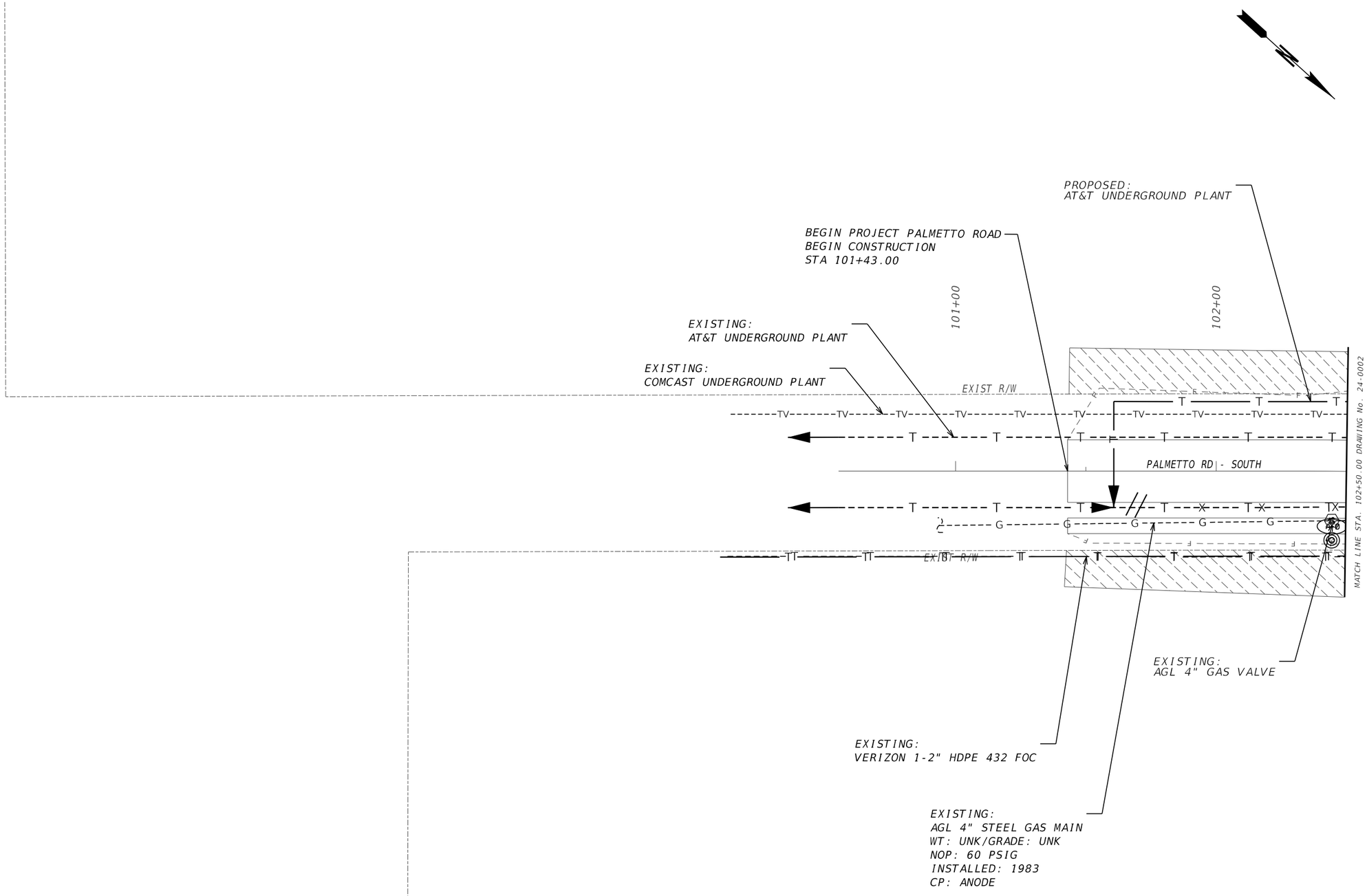

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

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REVISION DATES

UTILITY PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

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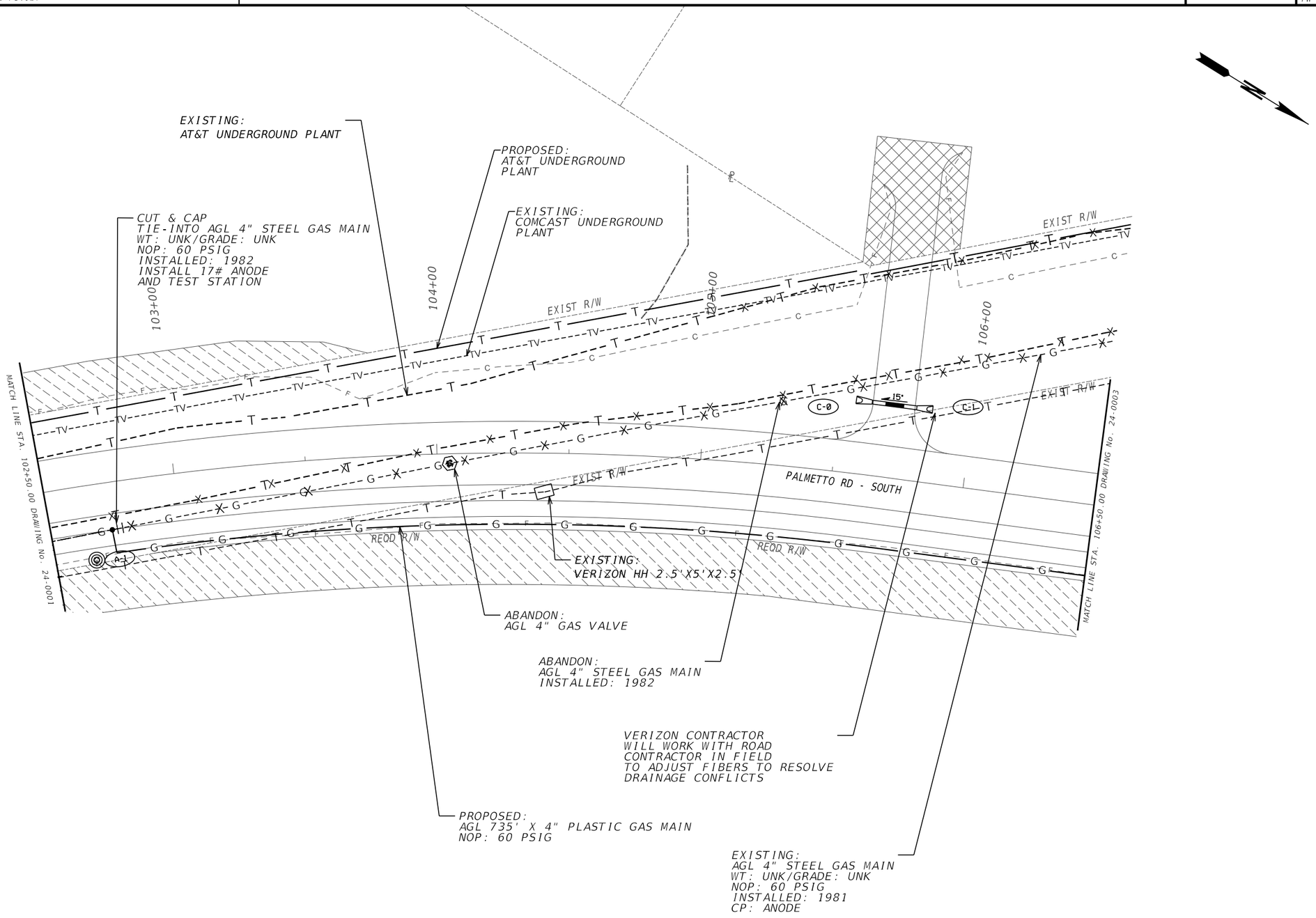

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

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PALMETTO ROAD AT
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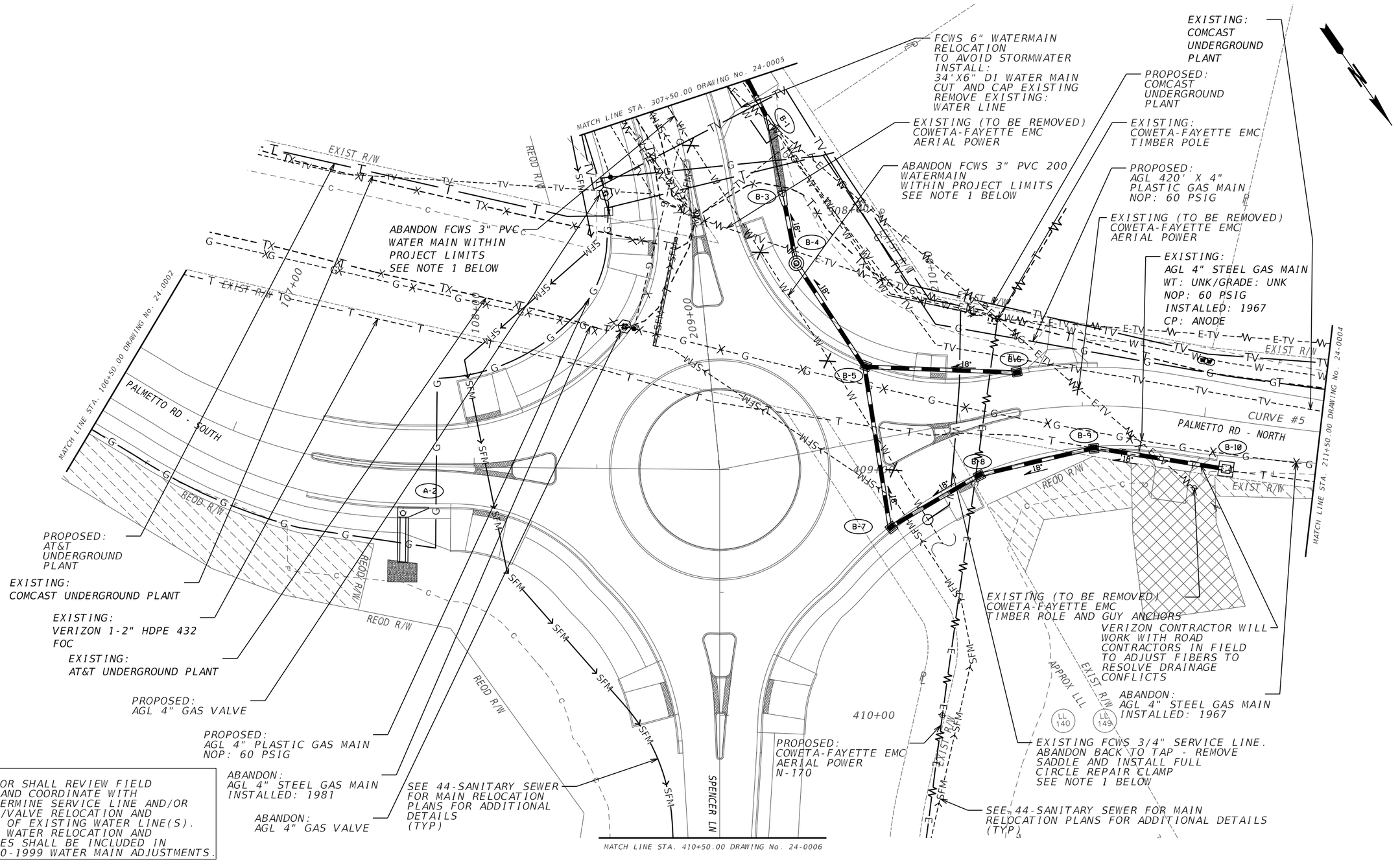

NOTES:
1. CONTRACTOR SHALL REVIEW FIELD CONDITIONS AND COORDINATE WITH FCWS TO DETERMINE SERVICE LINE AND/OR WATER METER/VALVE RELOCATION AND ABONDONMENT OF EXISTING WATER LINE(S). PAYMENT FOR WATER RELOCATION AND SERVICE LINES SHALL BE INCLUDED IN PAY ITEM 670-1999 WATER MAIN ADJUSTMENTS.

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
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	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

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UTILITY PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

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VERIFIED:		DATE:		

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PROPOSED: COMCAST UNDERGROUND PLANT

EXISTING: COMCAST UNDERGROUND PLANT

END PROJECT PALMETTO RD
END CONSTRUCTION
STA 212+17.00

PROPOSED: 420'X4" PLASTIC GAS MAIN NOP: 60 PSIG

212+00

POINT VIEW CT

EXISTING: AT&T UNDERGROUND PLANT

EXISTING: COMCAST UNDERGROUND PLANT

215+00

216+00

LL 149 APPROX LLL

LL 148

MATCH LINE STA. 211+50.00 DRAWING No. 24-0003

EXIST R/W

PALMETTO RD - NORTH

EXISTING: VERIZON 1-2" HDPE 432 FOC

EXISTING: VERIZON HH 2.5'X5'X2.5'

ABANDON: 4" STEEL GAS MAIN INSTALLED 1967

EXISTING: VERIZON 1-2" HDPE 432 FOC

EXISTING: AGL 4" STEEL GAS MAIN
WT: UNK/GRADE: UNK
NOP: 60 PSIG
INSTALLED: 1967
CP: ANODE

EXISTING: COMCAST AERIAL PLANT

CUT & CAP
AGL TIE-INTO 4" STEEL GAS MAIN
WT: UNK/GRADE: UNK
NOP: 60 PSIG
INSTALLED: 1967
INSTALL 17# ANODE AND TEST STATION

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

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VERIFIED:		DATE:		

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FCWS 3" WATERMAIN TO BE ABANDONED WITHIN CONSTRUCTION LIMITS. CAPPED AND REMOVED OR FILLED WITH HYDRAULIC CEMENT. SEE NOTE 1 BELOW

FCWS 6" WATERMAIN IN CONFLICT WITH STORM INSTALL: 9'X6" DI WATER MAIN CUT AND CAP EXISTING REMOVE EXISTING: WATER LINE

BEGIN CONSTRUCTION ARROWOOD RD STA 306+50.00

PROPOSED: AGL 125' X 2" PLASTIC GAS MAIN NOP: 60 PSIG

CUT & CAP AGL TIE-INTO 4" STEEL GAS MAIN WT: UNK/GRADE: UNK NOP: 60 PSIG INSTALLED: 1967 INSTALL 17# ANODE AND TEST STATION

303+00 305+00 306+00 307+00

EXIST R/W

FCWS 6" PVC WATER MAIN

ARROWOOD RD

MATCH LINE STA. 307+50.00 DRAWING NO. 24-0003

REOD R/W

FCWS 3" PVC 160 WATER MAIN

EXISTING: COMCAST UNDERGROUND PLANT

SEE 44-SANITARY SEWER FOR MAIN RELOCATION PLANS FOR ADDITIONAL DETAILS (TYP)

EXISTING: AGL 2" STEEL GAS MAIN WT: UNK/GRADE: UNK NOP: 60 PSIG INSTALLED: 1967 CP: ANODE

EXISTING FCWS SERVICE AND METER TO BE ABANDONED AND NEW CONNECTION MADE TO 6" ON OPPOSITE SIDE OF ARROWOOD RD SEE NOTE 1 BELOW

SEE 44-SANITARY SEWER FORCE MAIN RELOCATION PLANS FOR ADDITIONAL DETAILS (TYP)

PROPOSED: AT&T UNDERGROUND PLANT

NOTES:
1. CONTRACTOR SHALL REVIEW FIELD CONDITIONS AND COORDINATE WITH FCWS TO DETERMINE SERVICE LINE AND/OR WATER METER/VALVE RELOCATION AND ABONDONMENT OF EXISTING WATER LINE(S). PAYMENT FOR WATER RELOCATION AND SERVICE LINES SHALL BE INCLUDED IN PAY ITEM 670-1999 WATER MAIN ADJUSTMENTS.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
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EASEMENT FOR CONSTR OF SLOPES
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EXISTING LIMIT OF ACCESS
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EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
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EXISTING:
COMCAST AERIAL PLANT

EXISTING:
COWETA-FAYETTE EMC
TIMBER POLE
PROSED:
GUY ANCHOR

PROPOSED:
AT&T UNDERGROUND PLANT

PROPOSED:
AT&T UNDERGROUND PLANT

EXIST R/W

412+00

413+00

414+00

411+00

D-3

D-4

D-5

SPENCER LN

REOD R/W

MATCH LINE STA. 410+50.00 DRAWING No. 24-0003

MATCH LINE STA. 414+50.00 DRAWING No. 24-0007

EXISTING:
AT&T UNDERGROUND
PLANT

SEE 44-SANITARY SEWER FOR MAIN RELOCATION PLANS FOR ADDITIONAL DETAILS (TYP)

PROPOSED:
COWETA-FAYETTE EMC
AERIAL POWER
N-240

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

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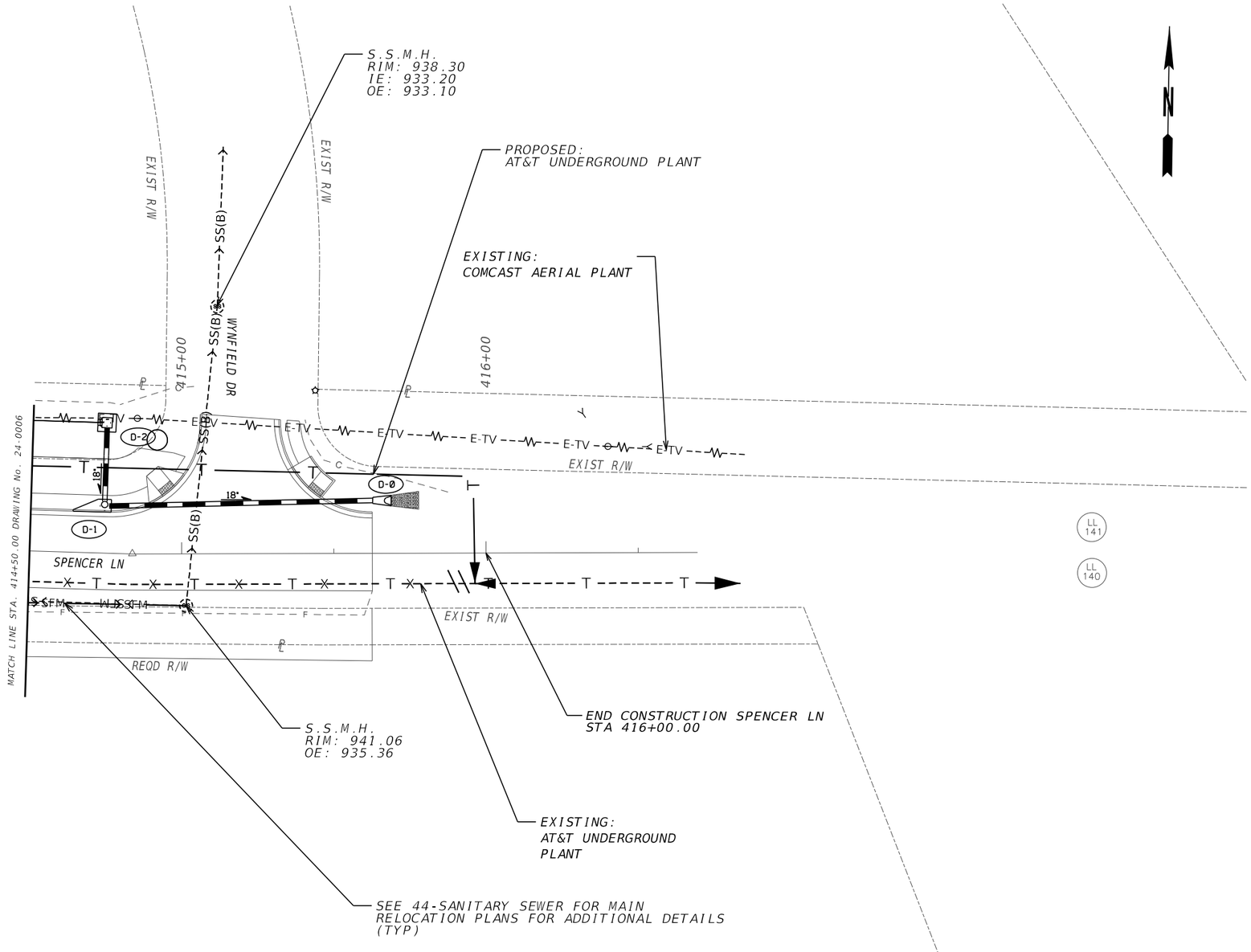

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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0 20 40 80

REVISION DATES

UTILITY PLANS
PALMETTO ROAD AT
ARROWOOD/SPENCER

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LEGEND

A ⊸	ROADWAY/PEDESTRIAN LUMINAIRE, LETTER INDICATES FIXTURE TYPE/ID. SEE LIGHT FIXTURE SCHEDULE., 25-0009
★	LIGHTING SERVICE POINT
———	BRANCH CIRCUIT CONDUCTORS IN UNDERGROUND CONDUIT INSTALLED VIA TRENCH AND BACKFILL
←(S)	LIGHTING SERVICE POINT
[H]	IN-GRADE HANDHOLE ENCLOSURE, 13"X24"X12" DEEP, QUAZITE OR EQUAL, PG SERIES, TIER 22, STREET LIGHTING LOGO
- - - - - -	CONDUCTORS IN UNDERGROUND CONDUIT INSTALL VIA DIRECTIONAL BORE
A ⊗	SIGN LUMINAIRE, LETTER INDICATES FIXTURE TYPE/ID. SEE LIGHT FIXTURE SCHEDULE, 25-0009

ABBREVIATIONS

AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
C	CELSIUS, CONDUIT
CCT	CIRCUIT, CORRELATED COLOR TEMPERATURE
CLR	CLEARANCE
CRI	COLOR RENDERING INDEX
DEG	DEGREES
DIA	DIAMETER
EA	EACH
F	FAHRENHEIT
FT	FEET
G	GROUND, EQUIPMENT GROUNDING CONDUCTOR
HDPE	HIGH-DENSITY POLYETHYLENE
IN	INCH OR INCHES
KVA	KILOVOLT-AMPS
LED	*LIGHT-EMITTING DIODES*
MIL	*1/1000TH OF AN INCH*
NIC	*NOT IN CONTRACT*
O.C.	*ON CENTER*
PVC	*POLYVINYL CHLORIDE*
RGS	*RIGID GALVANIZED STEEL*
STA	*STATION*
UL	*UNDERWRITERS LABORATORIES*
SCCR	*SHORT CIRCUIT CURRENT RATING*
SPD	*SURGE PROTECTION DEVICE*
V	*VOLTS*
XFMR	*TRANSFORMER*

ELECTRICAL GENERAL NOTES

1. *ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF:*
   - *A. NFPA 70-2020 (NATIONAL ELECTRICAL CODE)*
   - *B. ANSI C2-2017 (NATIONAL ELECTRICAL SAFETY CODE)*
   - *C. AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION*
   - *D. APPLICABLE LOCAL CODES AND FEDERAL AND STATE LAWS*

2. *ALL ELECTRICAL EQUIPMENT, SUCH AS MAIN CIRCUIT BREAKERS, LIGHTING CONTACTORS, AND LOAD CENTERS SHALL BE IN UL LISTED NEMA-4X STAINLESS STEEL ENCLOSURES THAT CAN BE PADLOCKED. A SURGE SUPPRESSOR SHALL BE PROVIDED AT EACH POWER SERVICE. THE SURGE SUPPRESSOR SHALL BE IN A NEMA-4X ENCLOSURE, UL1449 AND UL1283 LISTED, AND SUITABLE FOR CONNECTION TO THE POWER SERVICE. THE SURGE SUPPRESSOR SHALL HAVE A MINIMUM SURGE CURRENT RATING OF 130,000A PER PHASE AND SHALL BE PROVIDED WITH STATUS INDICATING LIGHTS.*

3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL COWETA FAYETTE EMC AND GA POWER MAINTENANCE ENGINEER BEFORE INSTALLING ANY PORTION OF THE ROADWAY LIGHTING. *THE CONTRACTOR SHALL LOCATE LIGHTING STANDARDS TO PROVIDE A MINIMUM CLEARANCE OF TEN FEET FROM DISTRIBUTION LINES AND A MINIMUM OF 20 FEET FROM TRANSMISSION LINES. ALL COST ASSOCIATED WITH ENSURING COMPLIANCE WITH THE GEORGIA HIGH VOLTAGE SAFETY ACT, INCLUDING BUT NOT LIMITED TO DE-ENERGIZING OR REROUTING OF POWER LINES, SHALL BE INCLUDED IN THE OVERALL BID PRICE OF THE PROJECT. THE CONTRACTOR SHALL COORDINATE THE WORK* AT EACH SERVICE POINT WITH GEORGIA POWER COMPANY.

4. *THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES--EXISTING AND PROPOSED--PRIOR TO ANY DIGGING. ANY DAMAGE TO UTILITIES SHALL* BE REPAIRED BY THE CONTRACTOR. ANY SUCH REPAIRS SHALL BE COMPLETED AT THE SOLE EXPENSE OF THE CONTRACTOR. ANY SUCH REPAIRS SHALL MEET UTILITY COMPANYS REQUIREMENTS.

5. THE POLES, ARMS, AND LUMINAIRES SPECIFIED IN THE LIGHITNG FIXTURE SCHEDULE ARE THE BASIS OF DESIGN. ALTERNATES OF EQUIVALENT CONSTRUCTION AND PHOTOMETRIC PERFORMANCE ARE ACCEPTABLE. THE CONTRACTOR SHALL SUBMIT PHOTOMETRIC DATA AND DESIGN CALCULATIONS FOR PROPOSED SUBSTITUTES TO VERIFY THAT PHOTOMETRIC REQUIREMENTS DESCRIBED BELOW ARE SATISFIED. CALCULATION ZONES SHALL BE CREATED AS DESCRIBED IN IES RP-08-18.

PHOTOMETRIC REQUIREMENTS ARE AS FOLLOWS:

ROUNDABOUTS
AVERAGE MAINTAINED ILLUMINANCE = 0.9 FC
UNIFORMITY RATIO (AVG/MIN) = 4:1
AVERAGE MAINTAINED VERTICAL ILLUMINANCE FOR CROSSWALKS = 0.9 FC

PALMETTO RD. APPROACH:
AVERAGE MAINTAINED LUMINANCE = 0.4 CD/M²
UNIFORMITY RATIO (AVG/MIN) = 4:1
UNIFORMITY RATIO (MAX/MIN) = 8:1
MAXIMUM VEILING LUMINANCE RATIO = 0.4

ARROWOOD RD. APPROACH:
AVERAGE MAINTAINED LUMINANCE = 0.3 CD/M²
UNIFORMITY RATIO (AVG/MIN) = 6:1
UNIFORMITY RATIO (MAX/MIN) = 10:1
MAXIMUM VEILING LUMINANCE RATIO = 0.4

PEDESTRIAN PATHWAYS:
AVERAGE MAINTAINED ILLUMINANCE = 0.3 FC
MINIMUM MAINTAINED ILLUMINANCE = 0.1 FC
UNIFORMITY RATIO (AVG/MIN) = 6:1

6. THE CONTRACTOR SHALL PROVIDE ALL ACCESSORIES NECESSARY TO ENSURE PROPER INSTALLATION AND OPERATION OF THE LIGHTING SYSTEM COMMUNICATED IN *THESE PLANS.*

7. ALL CONDUIT NOT INSTALLED UNDER A ROADWAY SHALL BE 1-1/2" SCHEDULE 40 PVC OR HDPE CONFORMING TO ASTM F2160-16.

8. ALL CONDUIT INSTALLED UNDER A ROADWAY SHALL BE 1-1/2" HDPE CONFORMING TO ASTM F2160-16.

9. ALL CONDUIT INSTALLED UNDER AN EXISTING ROADWAY, DRIVE OR ANY PAVED SURFACE SHALL BE INSTALLED VIA DIRECTIONAL BORE AND SHALL BE HDPE *CONFORMING TO ASTM F2160-16.*

10. UNLESS INDICATED OTHERWISE, EXPOSED CONDUIT SHALL BE HOT-DIP GALVANIZED RIGID STEEL.

11. ALL CONDUCTORS SHALL BE ALUMINUM.

12. UNLESS INDICATED OTHERWISE, CONDUCTORS SERVING LIGHTING CIRCUITS SHALL BE 2#10 AWG AND 1#10G. CONDUCTOR INSULATION SHALL BE TYPE RHH/RHW *90/75'C. WHERE ALTERNATIVE WIRE AND CONDUIT SIZES ARE INDICATED ON PLANS, THE INDICATED SIZES APPLY ONLY TO THE NOTED SEGMENT (I.E. FIXTURE TO FIXTURE OR FIXTURE TO SERVICE POINT).*

13. ALL FUSES SHALL BE IN-LINE TYPE AND WATERPROOF.

14. THE CONTRACTOR SHALL PROVIDE A ONE YEAR WRITTEN WARRANTY FOR PARTS, LABOR, AND DEFECTIVE WORKMANSHIP ON THE LUMINARES, POLES, LIGHTING CONTROL *PANEL, AND ALL OTHER ELECTRICAL EQUIPMENT.*

15. CONTRACTOR TO VERIFY NO CONFLICT WITH WALL FOUNDATION WITH PROPOSED LIGHT LOCATIONS. IF CONTRACTOR IDENTIFIES A CONFLICT, THEY SHALL COORDINATE WITH A&E AND OWNER TO DETERMINE APPROPRIATE SOLUTION.

16. CONTRACTOR TO VERIFY MOUNTING HEIGHT BASED ON FINISHED GRADE WHICH MAY OR MAY NOT EQUATE TO SIDEPATH FINISHED GRADE

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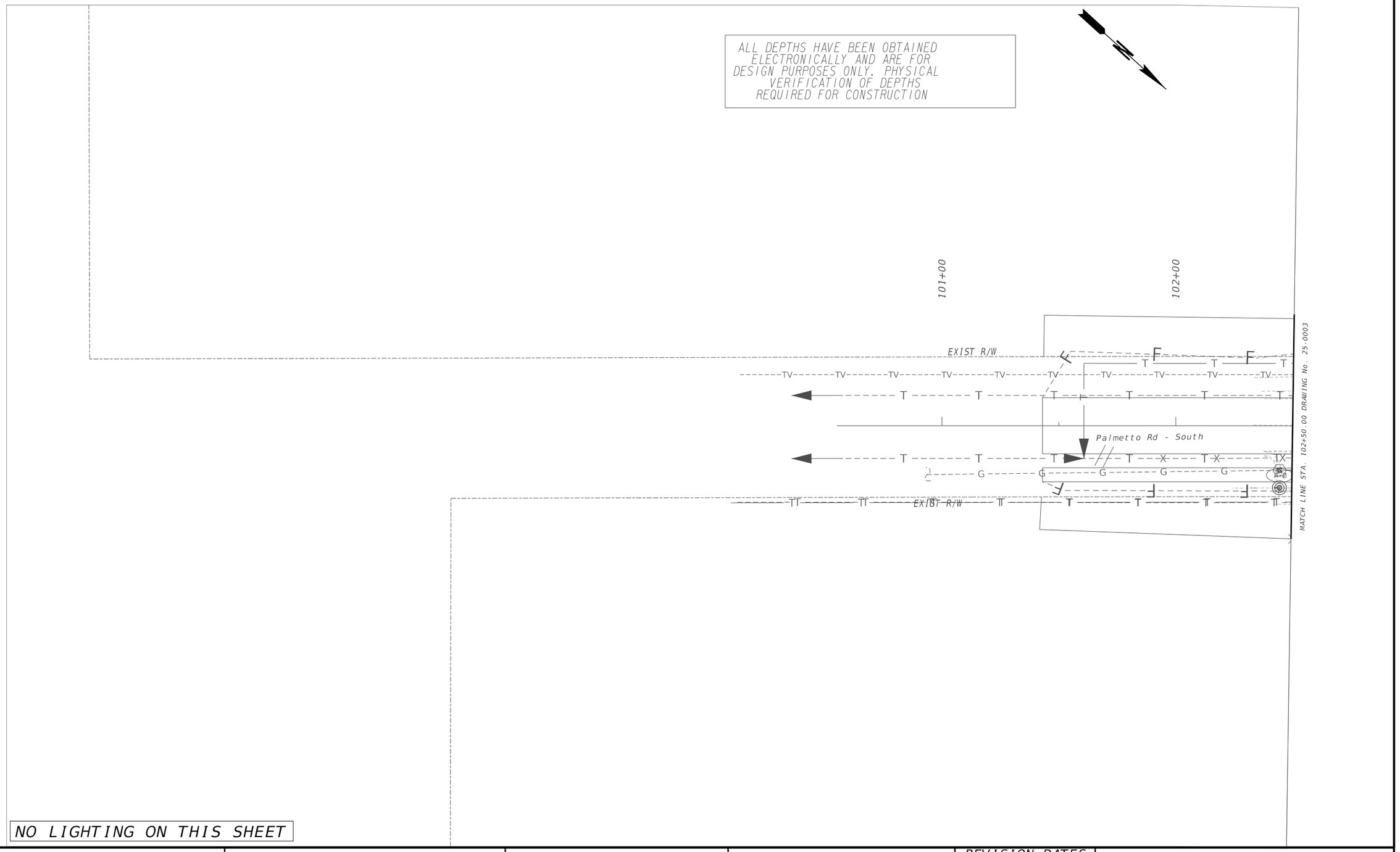
ALL DEPTHS HAVE BEEN OBTAINED ELECTRONICALLY AND ARE FOR DESIGN PURPOSES ONLY. PHYSICAL VERIFICATION OF DEPTHS REQUIRED FOR CONSTRUCTION



NO LIGHTING ON THIS SHEET

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
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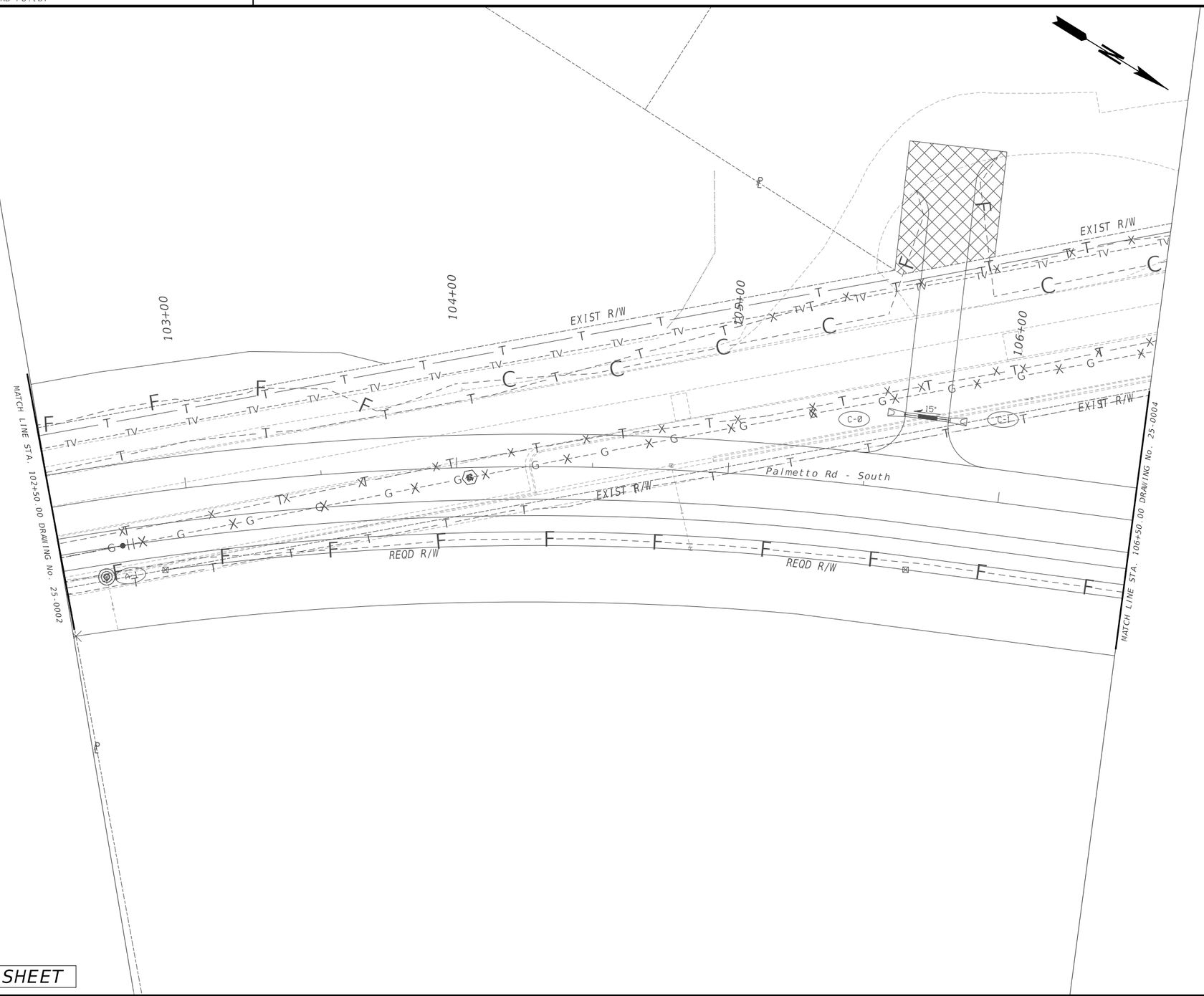

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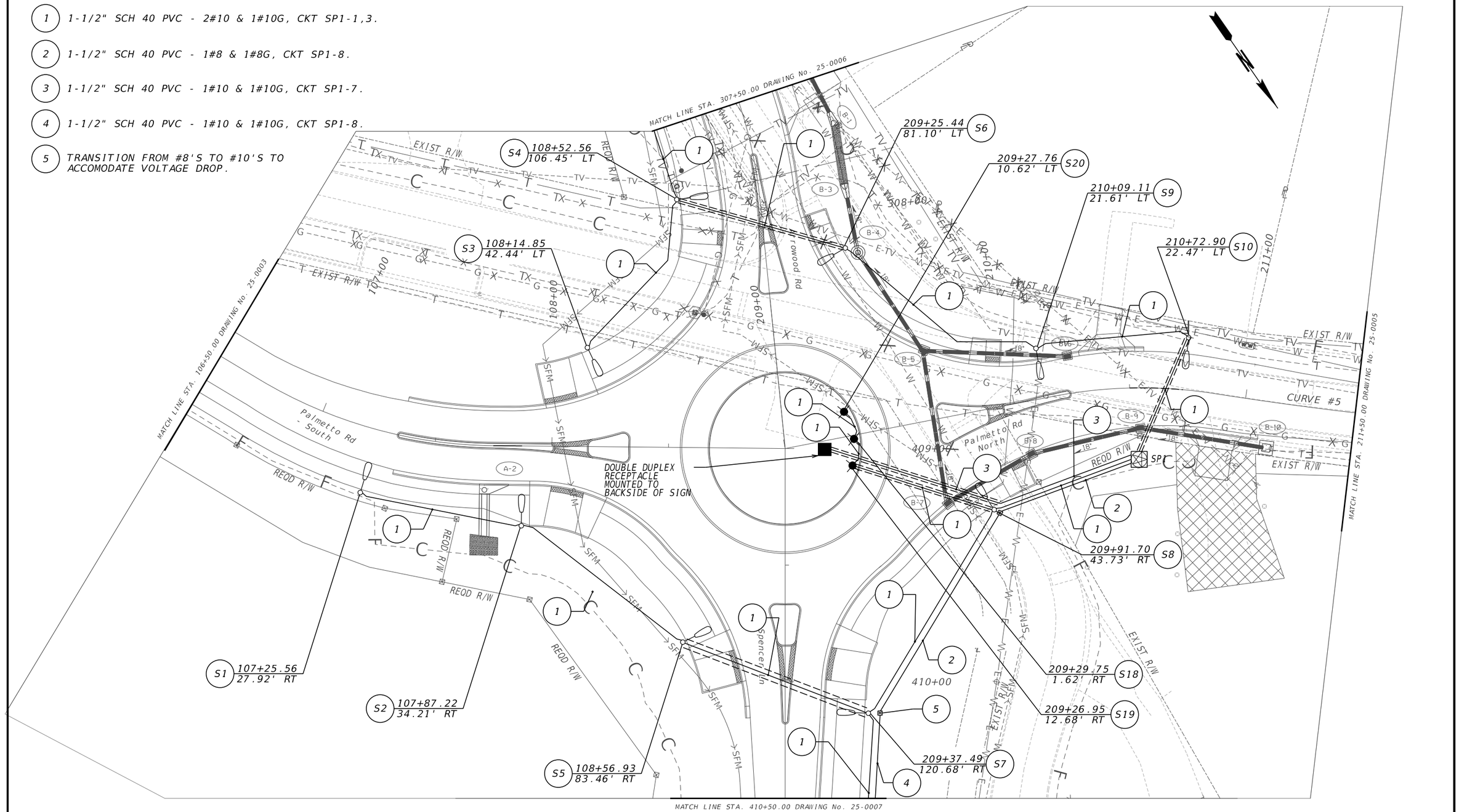
NOTES:

1. 1-1/2" SCH 40 PVC - 2#10 & 1#10G, CKT SP1-1,3.
2. 1-1/2" SCH 40 PVC - 1#8 & 1#8G, CKT SP1-8.
3. 1-1/2" SCH 40 PVC - 1#10 & 1#10G, CKT SP1-7.
4. 1-1/2" SCH 40 PVC - 1#10 & 1#10G, CKT SP1-8.
5. TRANSITION FROM #8'S TO #10'S TO ACCOMODATE VOLTAGE DROP.



PROPERTY AND EXISTING R/W LINE	----------℄----------	BEGIN LIMIT OF ACCESS.....BLA	
REQUIRED R/W LINE	————	END LIMIT OF ACCESS.....ELA	
CONSTRUCTION LIMITS	— —C— — F— —	EXISTING LIMIT OF ACCESS	— — —ooo— — —
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D LIMIT OF ACCESS	——ooo——
EASEMENT FOR CONSTR OF SLOPES		EXISTING LIMIT OF ACCESS & R/W	----------|||----------
EASEMENT FOR CONSTR OF DRIVES		REQ'D LIMIT OF ACCESS & R/W	——|||——
		ORANGE BARRIER FENCE	●—●—●—●—●
		ESA - ENV. SENSITIVE AREA	●—●—●

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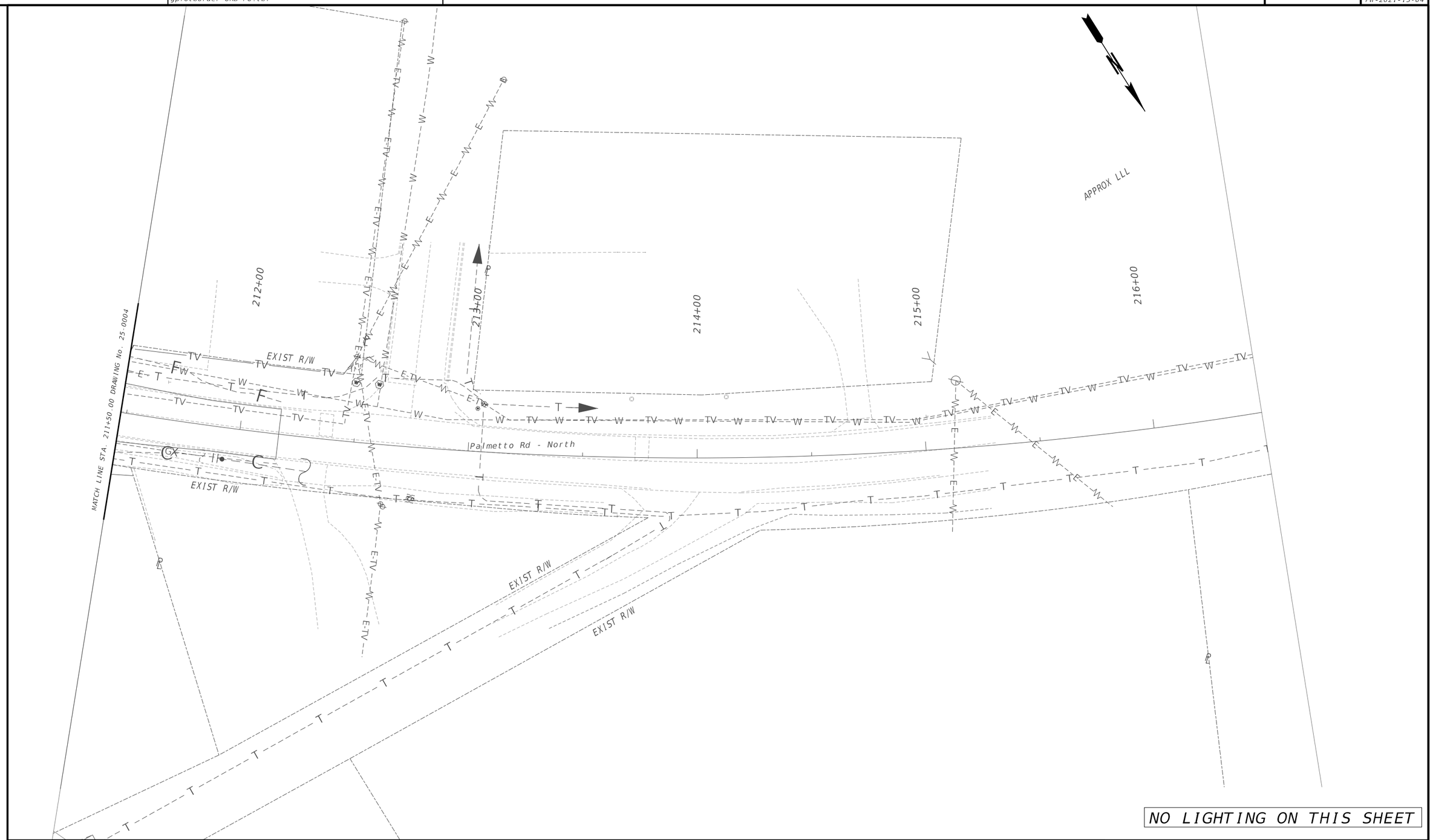

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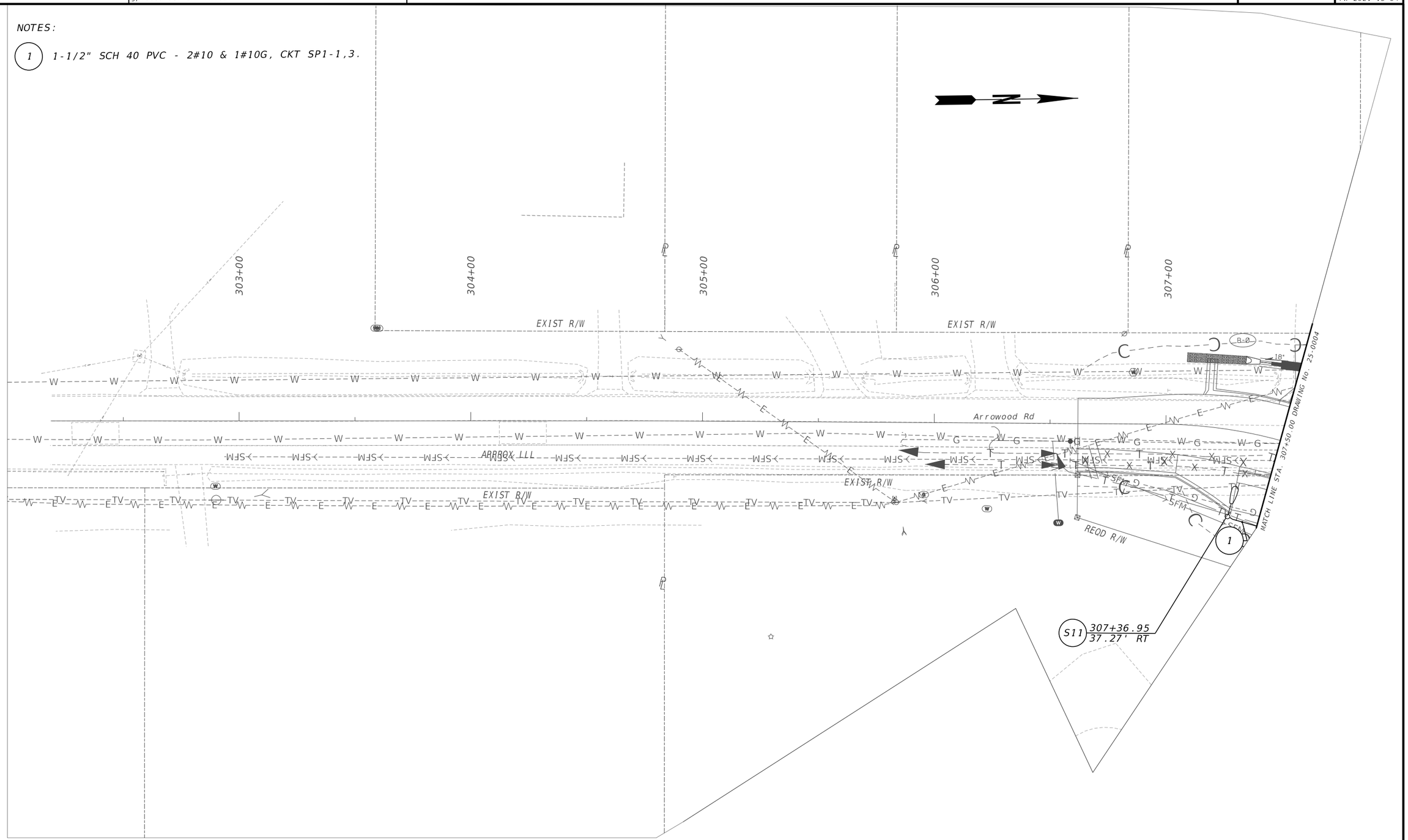
NOTES:

1. 1-1/2" SCH 40 PVC - 2#10 & 1#10G, CKT SP1-1,3.



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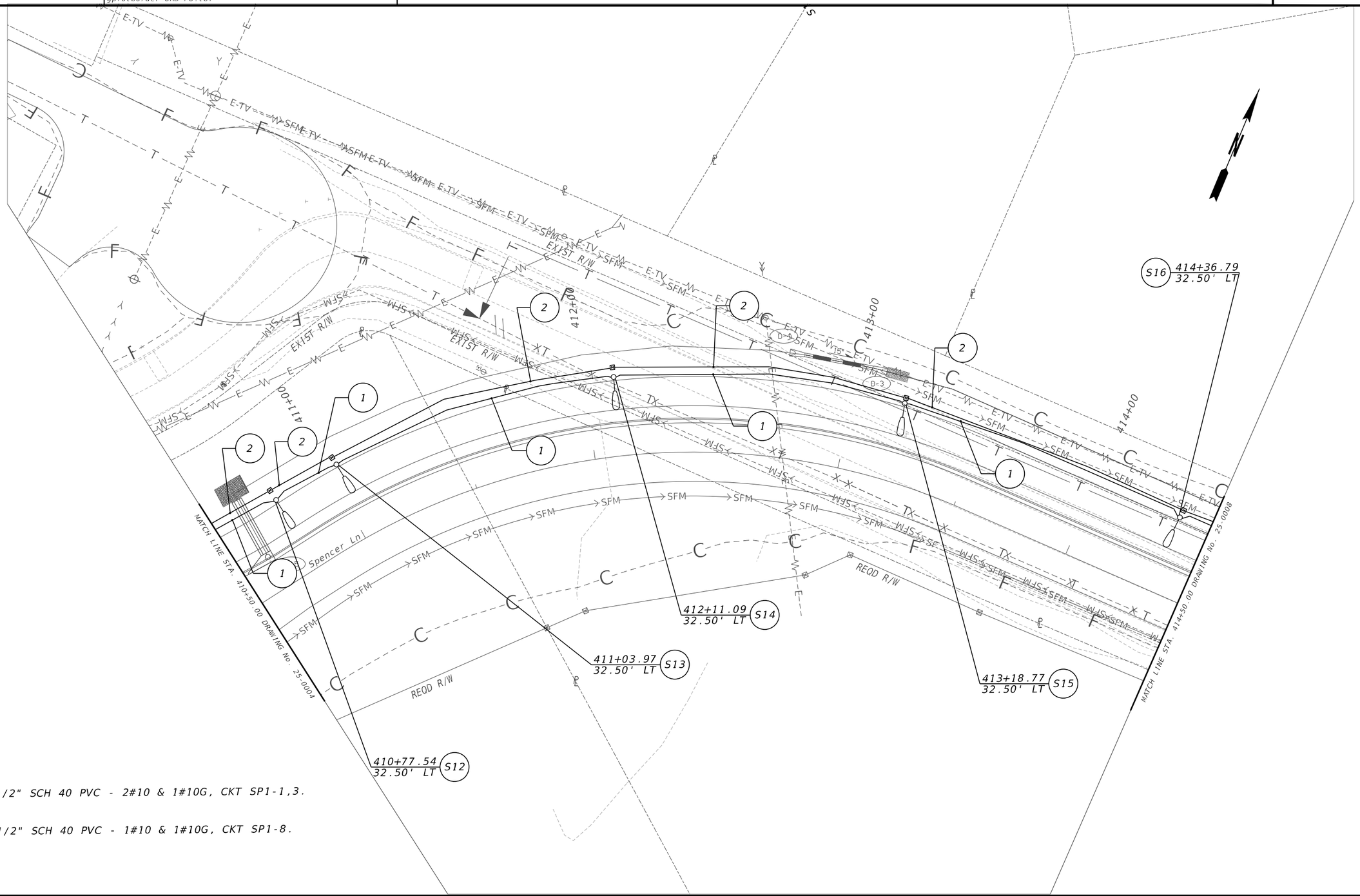

NOTES:

1. 1-1/2" SCH 40 PVC - 2#10 & 1#10G, CKT SP1-1,3.
2. 1-1/2" SCH 40 PVC - 1#10 & 1#10G, CKT SP1-8.

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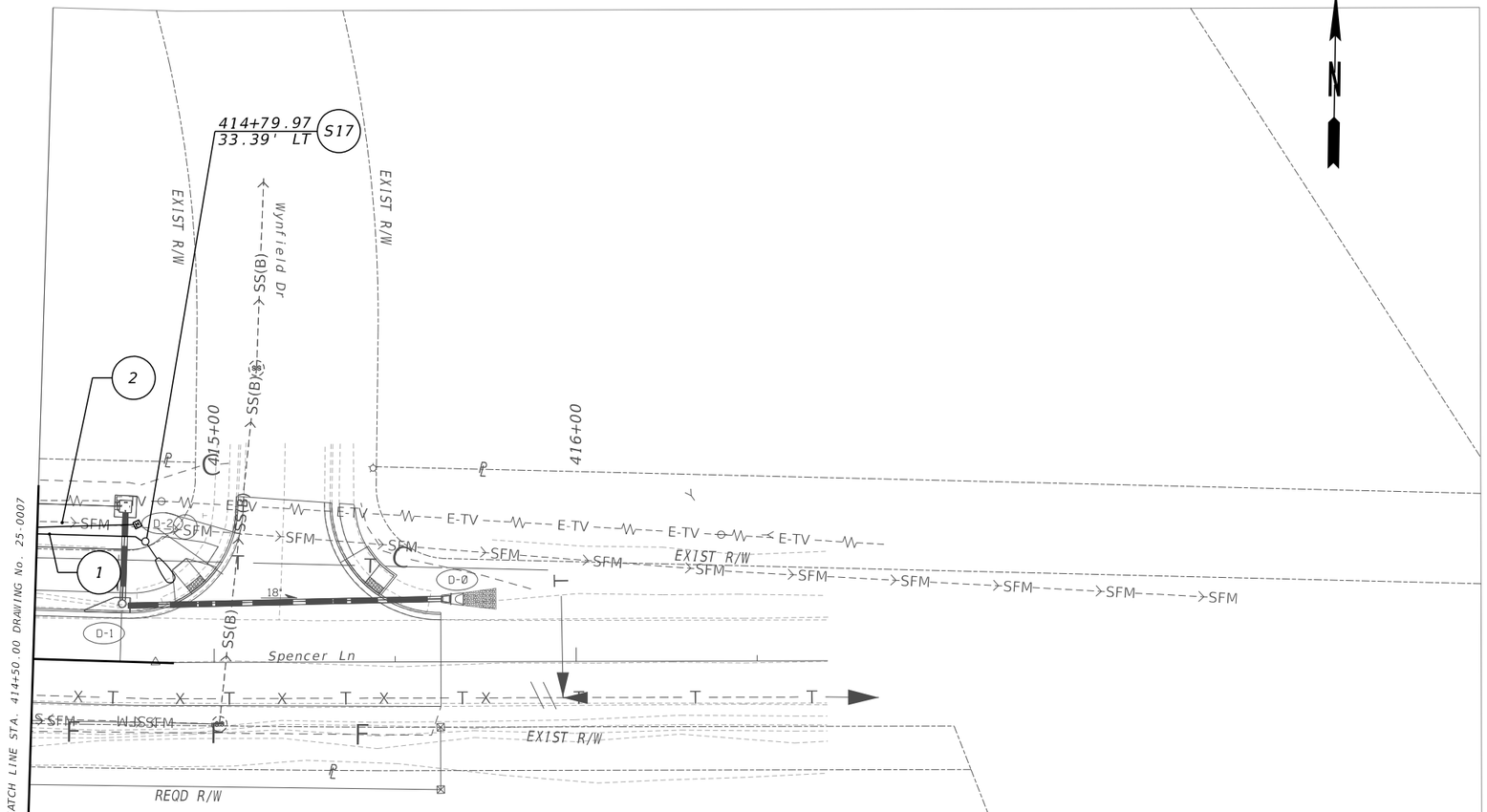

NOTES:

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PROPERTY AND EXISTING R/W LINE
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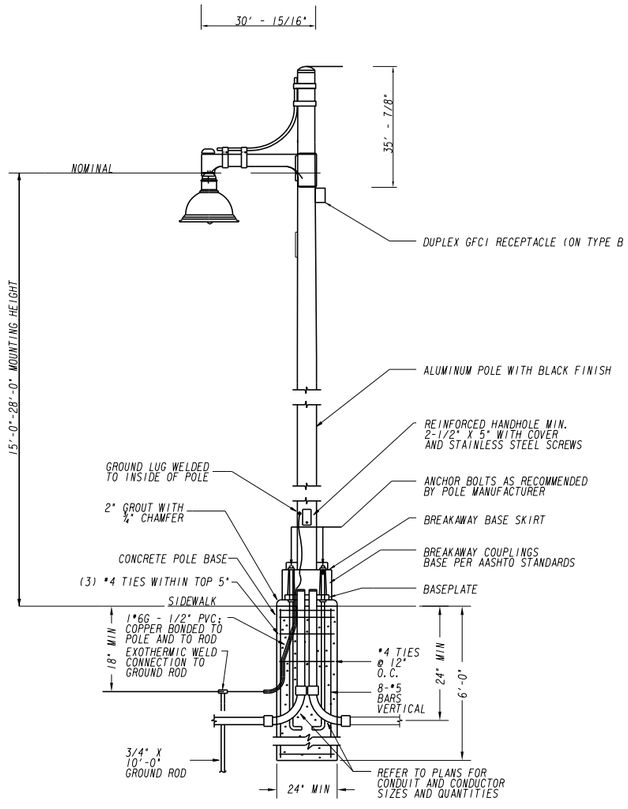
LIGHTING FIXTURE SCHEDULE

ID	MODEL	VOLTAGE	WATTS	LAMP	DESCRIPTION	NOTES
A	COOPER LIGHTING "CEM-E04-LED-E1-T3-SO-BL-BK-10MSP-10X-U13960I(FIXTURE); HAPCO "DECORATIVE BASE W/ 4" ALUM TUBE(POLE); COOPER LIGHTING "SA6110-BK-4N7(ARM); 39164-014P••X	240	97	11,745-LUMEN LED, 70+ CRI, 4000K CCT	LUMINAIRE MOUNTED ON 29" ARM; FIXTURE MOUNTING HEIGHT 28' AFG.	1
B	COOPER LIGHTING "CEM-E01-LED-E1-T3-SO-BL-BK-10MSP-10X-U13960I(FIXTURE); HAPCO "DECORATIVE BASE W/ 4" ALUM TUBE & DUPLEX GFCI RECEPTACLE ON TOP(MODIFICATION NO. 185) - ITEM" 13-061 (POLE); COOPER LIGHTING "SA6110-BK-4N7(ARM); 39164-014P••X	240	25	2,936-LUMEN LED, 70+ CRI, 4000K CCT	LUMINAIRE MOUNTED ON 29" ARM; FIXTURE MOUNTING HEIGHT 15' AFG.	1
C	HYDREL "4640-18LED-GRN-MVOLT-FL-KM-PSSA-IHL-GN	240	20	1500-LUMEN LED, 70+ CRI, 4000K CCT	LUMINAIRE MOUNTED ON KNUCKLE AND STANCHIEN	1,2

1. FIXTURE CONTROLLED VIA PHOTOCELL MOUNTED IN SERVICE POINT ENCLOSURE FOUNDATION
2. MOUNT ON 6" DIAMETER +2' DEEP CONCRETE FOUNDATION



POLE - TYPE A & B

N.T.S

TYPE A & B LUMINAIRE REQUIREMENTS:

1. LED ROADWAY LUMINAIRE
2. ALUMINUM HOUSING WITH BLACK POLYESTER POWDER COATING AND TOOLESS ENTRY.
3. IP 55 LUMINAIRE HOUSING
4. IP66 RATED OPTICAL ENCLOSURE
5. SPLITFITTER MOUNTING
6. 4000K COLOR TEMPERATURE
7. COLOR RENDERING INDEX (CRI) - MINIMUM OF 70 CRI
8. 20KV, 20KA SURGE PROTECTION
9. INPUT VOLTAGE RATING TO MATCH SERVICE VOLTAGE SHOWN ON PLANS
10. HIGH POWER (>90%) FACTOR LED DRIVER WITH LESS THAN 20% THD AND OPERATING TEMPERATURE RANGE OF -30 DEGREE C TO +40 DEGREE C.
11. IES TYPE 3 DISTRIBUTION TYPE

NOTES:

1. POLE MANUFACTURER SHALL PROVIDE ANCHOR BOLT PATTERN AND MOUNTING HARDWARE.
2. CONTRACTOR SHALL INSTALL POLE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN REQUIREMENTS AND RECOMMENDATIONS.

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SUMMARY OF QUANTITIES

PAY ITEM NUMBER	ITEM DESCRIPTION	UNITS	ITEM DESCRIPTION
680-3600	LIGHTING STD, SPCL DESIGN, SIGN LIGHT	EA	3
680-4200	LIGHTING STD, 0-20 FT MH	EA	5
680-4225	LIGHTING STD, 26-30 FT MH	EA	12
680-5245	LUMINAIRE BRACKET ARM, 2 FT	EA	17
680-6130	LUMINAIRE, TP 3, LED	EA	17
682-1504	CABLE, TP RHH/RHW, AWG NO 10	LF	5798
682-2110	ELECTRICAL SERVICE POINT	EA	1
682-6221	CONDUIT, NONMETL, TP 2, 1-½IN	LF	2301
682-9950	DIRECTIONAL BORE - 3 IN	LF	226
682-1505	CABLE, TP RHH/RHW, AWG NO 8	LF	320
682-9020	ELECTRICAL JUNCTION BOX	LF	8

LUMINAIRE DATA TABLE

LUMINAIRE #	LUMINAIRE TYPE	STATION	OFFSET	MOUNTING HEIGHT	ARM LENGTH	MOUNTING ARRANGEMENT
S01	A	107+25.56	27.92' RT	28'-0"	0'-30"	SINGLE
S02	A	107+87.22	34.21' RT	28'-0"	0'-30"	SINGLE
S03	A	108+14.85	42.44' LT	28'-0"	0'-30"	SINGLE
S04	A	108+52.56	106.45' LT	28'-0"	0'-30"	SINGLE
S05	A	108+56.93	83.46' LT	28'-0"	0'-30"	SINGLE
S06	A	209+25.44	81.10' LT	28'-0"	0'-30"	SINGLE
S07	A	209+37.49	120.68' RT	28'-0"	0'-30"	SINGLE
S08	A	209+91.70	43.73' RT	28'-0"	0'-30"	SINGLE
S09	A	210+09.11	21.61' LT	28'-0"	0'-30"	SINGLE
S10	A	210+72.90	22.47' LT	28'-0"	0'-30"	SINGLE
S11	A	307+36.95	37.27' RT	28'-0"	0'-30"	SINGLE
S12	A	410+77.54	32.50' LT	128'-0"	0'-30"	SINGLE
S13	B	411+03.97	32.50' LT	15'-0"	0'-30"	SINGLE
S14	B	412+11.09	32.50' LT	15'-0"	0'-30"	SINGLE
S15	B	413+18.77	32.50' LT	15'-0"	0'-30"	SINGLE
S16	B	414+36.79	32.50' LT	15'-0"	0'-30"	SINGLE
S17	B	414+79.97	33.39' LT	15'-0"	0'-30"	SINGLE
S18	C	209+29.75	1.62' RT	KNUCKLE	-	SINGLE
S19	C	209+26.95	12.68' RT	KNUCKLE	-	SINGLE
S20	C	209+27.76	10.62' RT	KNUCKLE	-	SINGLE

NOTES:
1 - SEE LIGHTING FIXTURE SCHEDULE FOR LUMINAIRE TYPE BASIS OF DESIGN.
2 - SEE LIGHTING LAYOUT AND ONE-LINE DIAGRAM FOR CIRCUIT ASSIGNMENTS.

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BACKCHECKED:		DATE:		
CORRECTED:		DATE:		25-0010
VERIFIED:		DATE:		

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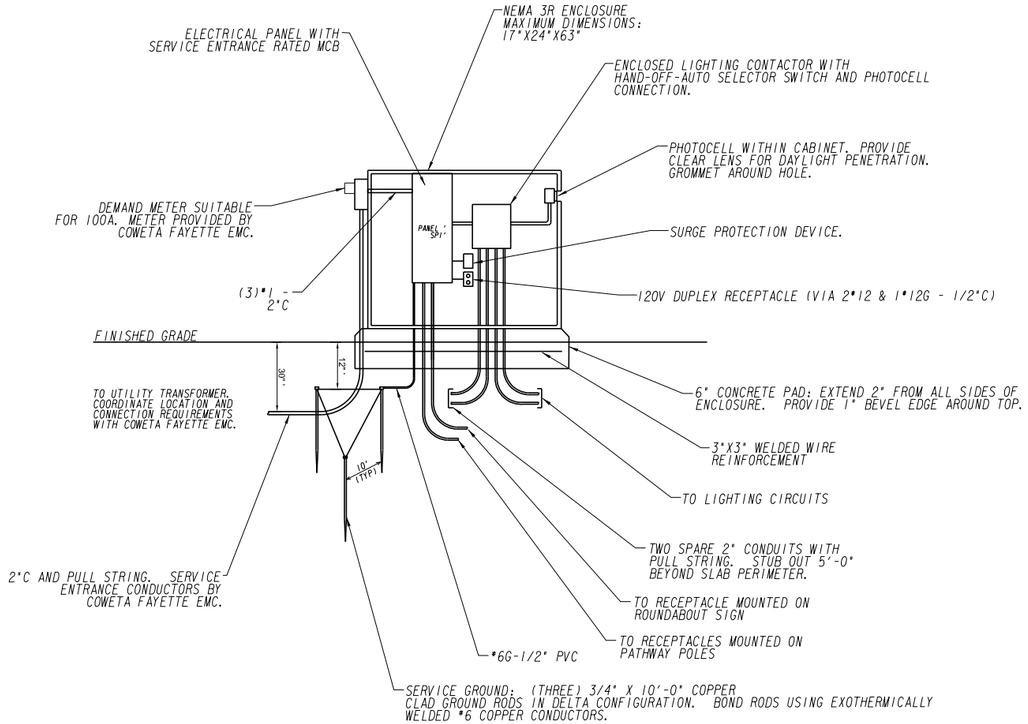
11/05/2020



SERVICE POINT WIRING DIAGRAM
NOT TO SCALE

SERVICE POINT 'I' PANELBOARD SCHEDULE

STATION: 210+55.93
OFFSET: 30.66' RT
SUPPLY FROM: UTILITY XFMR

MAINS: 60A MCB
VOLTAGE: 240/120V
PHASES: 1
WIRES: 3

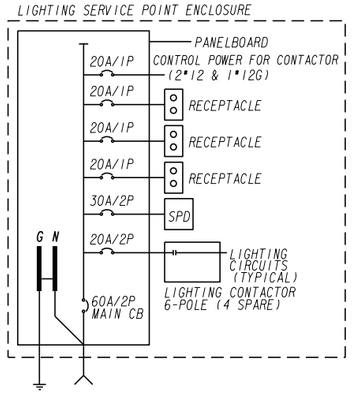
MINIMUM SCCR: 22,000A

CONNECTED LOAD KVA

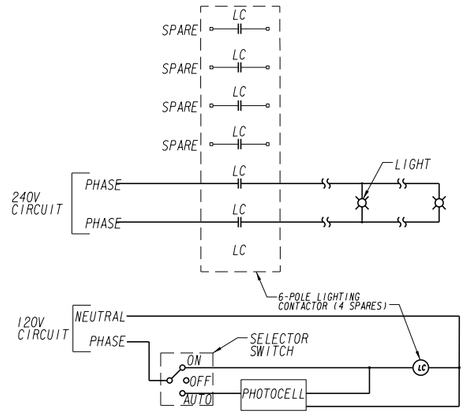
CKT	CIRCUIT DESCRIPTION	TRIP	POLE	PHASE A		PHASE B		POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	ROADWAY LIGHTS	20A	2	0.675	-			2	20A	SPARE	2
3	-	-	-			0.675	-	-	-	-	4
5	DUPLEX RECEPTACLE	20A	1	0.18	0.18			1	20A	LIGHTING CONTROLS	6
7	SIGN RECEPTACLE	20A	1			0.36	0.900	1	20A	RECEPTACLES ON POLES	8
9	SPARE	20A	1	-	-			2	30A	SURGE PROTECTION DEVICE	10
11	SPACE	-	-			-	-	-	-		12
	TOTAL PHASE KVA			1.035		1.935					

PANEL AMPS: 12.38A

NOTES:



SERVICE POINT WIRING DIAGRAM
NOT TO SCALE



LIGHTING CONTROL DIAGRAM (PER SERVICE POINT)
NOT TO SCALE

REVISION DATES

LIGHTING PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

		DATE:
CHECKED:		
BACKCHECKED:		DATE:
CORRECTED:		DATE:
VERIFIED:		DATE:

DRAWING No. 25-0011

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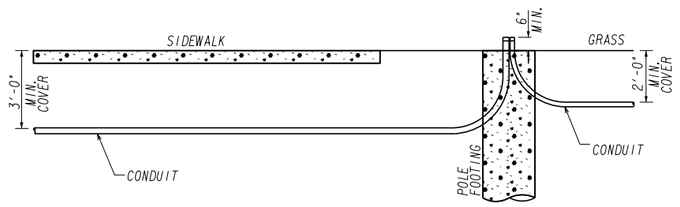
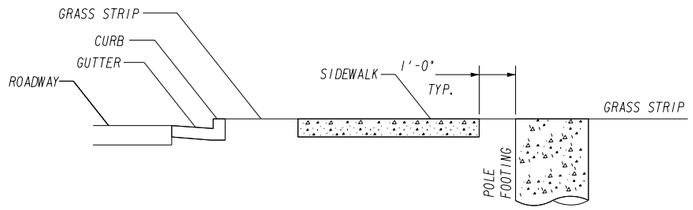


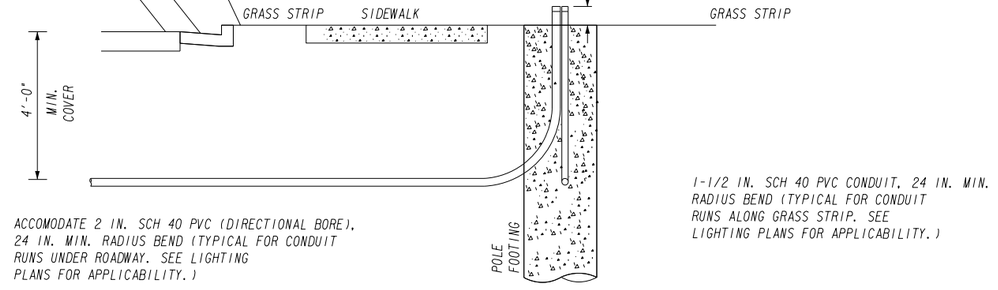
NOTE: SEE POLE BASE DETAILS FOR MORE INFORMATION.

TYPICAL CONDUIT INSTALLATION - UNDER SIDEWALK
N.T.S.



TYPICAL LIGHT POLE FOOTING LOCATION ALONG SIDEWALK
N.T.S.

NOTE: SEE POLE BASE DETAIL ON 25-0009 FOR MORE INFORMATION.



ACCOMODATE 2 IN. SCH 40 PVC (DIRECTIONAL BORE), 24 IN. MIN. RADIUS BEND (TYPICAL FOR CONDUIT RUNS UNDER ROADWAY. SEE LIGHTING PLANS FOR APPLICABILITY.)

1-1/2 IN. SCH 40 PVC CONDUIT, 24 IN. MIN. RADIUS BEND (TYPICAL FOR CONDUIT RUNS ALONG GRASS STRIP. SEE LIGHTING PLANS FOR APPLICABILITY.)

TYPICAL CONDUIT INSTALLATION DETAILS UNDER ROADWAY
N.T.S.

NOTE: SEE POLE BASE DETAIL ON 25-0009 FOR MORE INFORMATION.

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REVISION DATES

LIGHTING PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

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VERIFIED:		DATE:		

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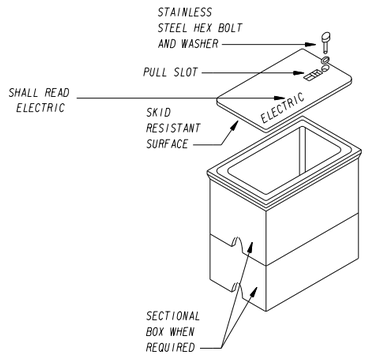
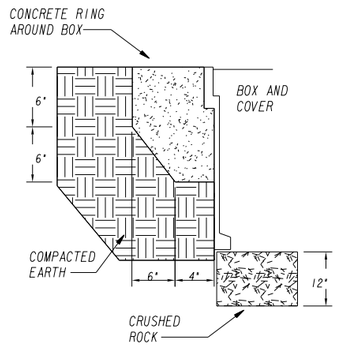
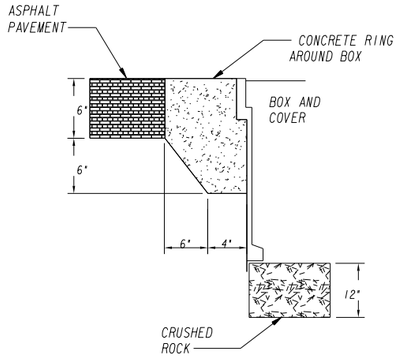
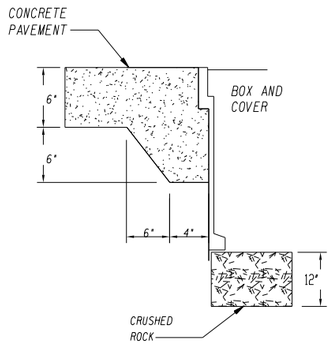




IN EARTH



IN ASPHALT



IN CONCRETE

HANDHOLE REQUIREMENTS:

1. HOUSING SHALL BE A POLYMER CONCRETE WITH HEAVY WEAVE FIBERGLASS REINFORCEMENT.
2. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
3. ANSI/SCTE 77 2013 TIER 22 RATED.
4. SIZE 13" x 24" x 12" DEEP, UNLESS OTHERWISE NOTED ON PLANS.
5. CONCRETE ENCASEMENT SHALL BE MINIMUM 3,000 PSI.
6. CONCRETE ENCASEMENT COLLAR DIMENSION, D, SHALL BE EQUAL TO DESIGN PAVEMENT DEPTH.

ELECTRICAL HANDHOLE DETAIL
N.T.S.

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REVISION DATES

LIGHTING PLANS
PALMETTO ROAD AT
ARROWOOD/SPENCER

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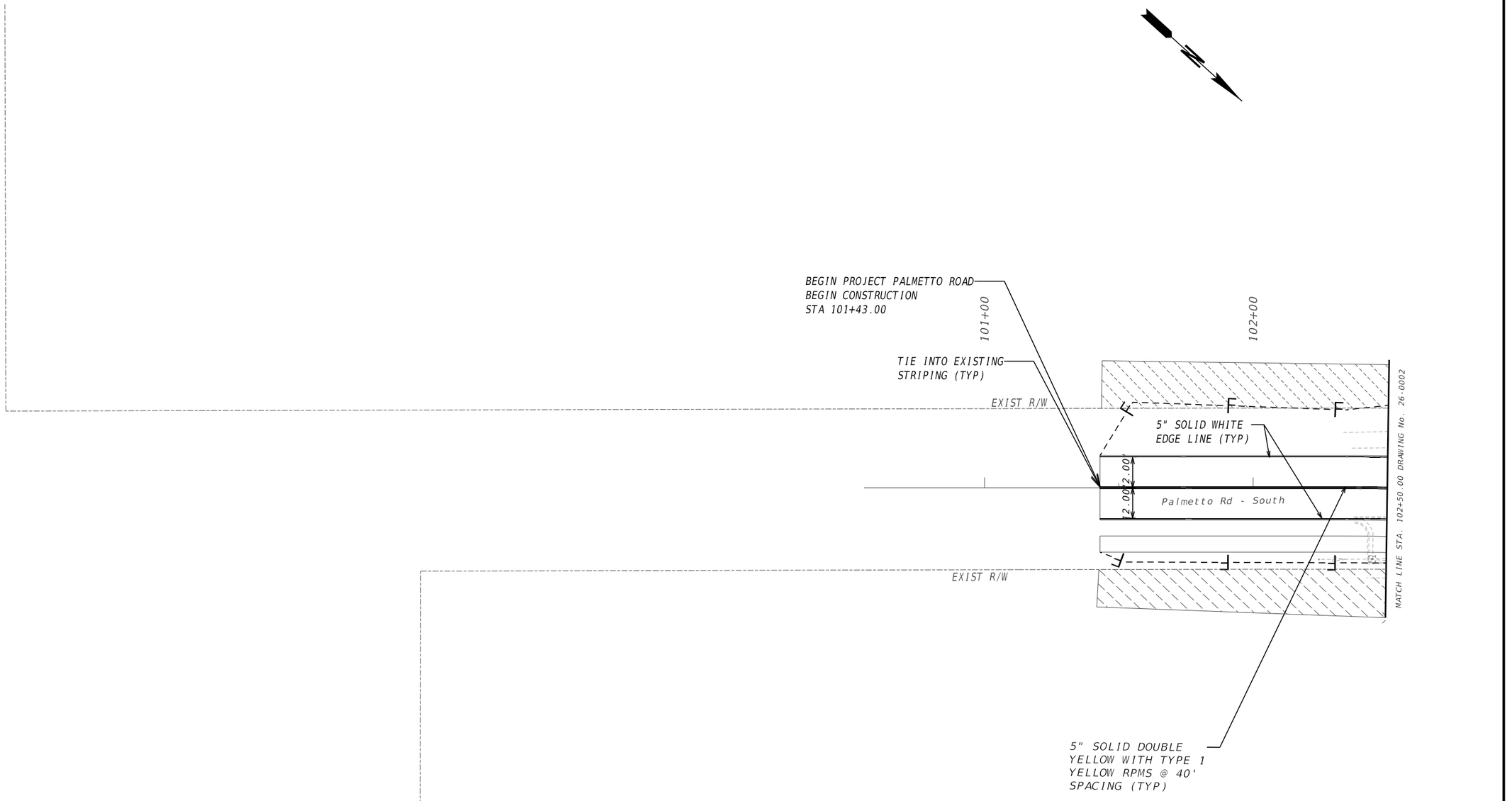
11/05/2020



PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

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SCALE IN FEET
0 20 40 80

REVISION DATES

SIGNING AND MARKING PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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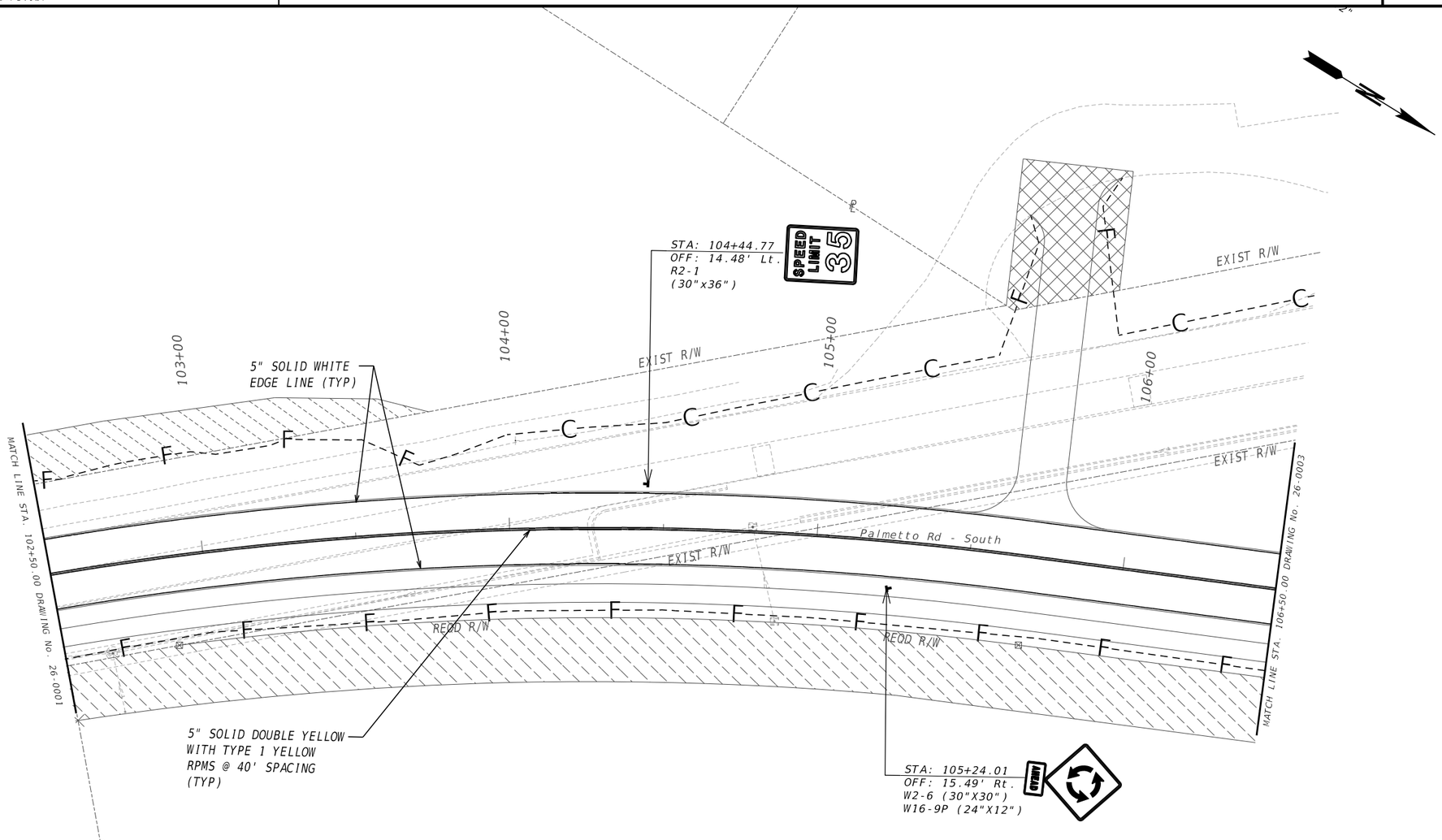
11/03/2020 12:0



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

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SCALE IN FEET
0 20 40 80

REVISION DATES

SIGNING AND MARKING PLANS
PALMETTO ROAD AT
ARROWOOD/SPENCER

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BACKCHECKED:		DATE:		26-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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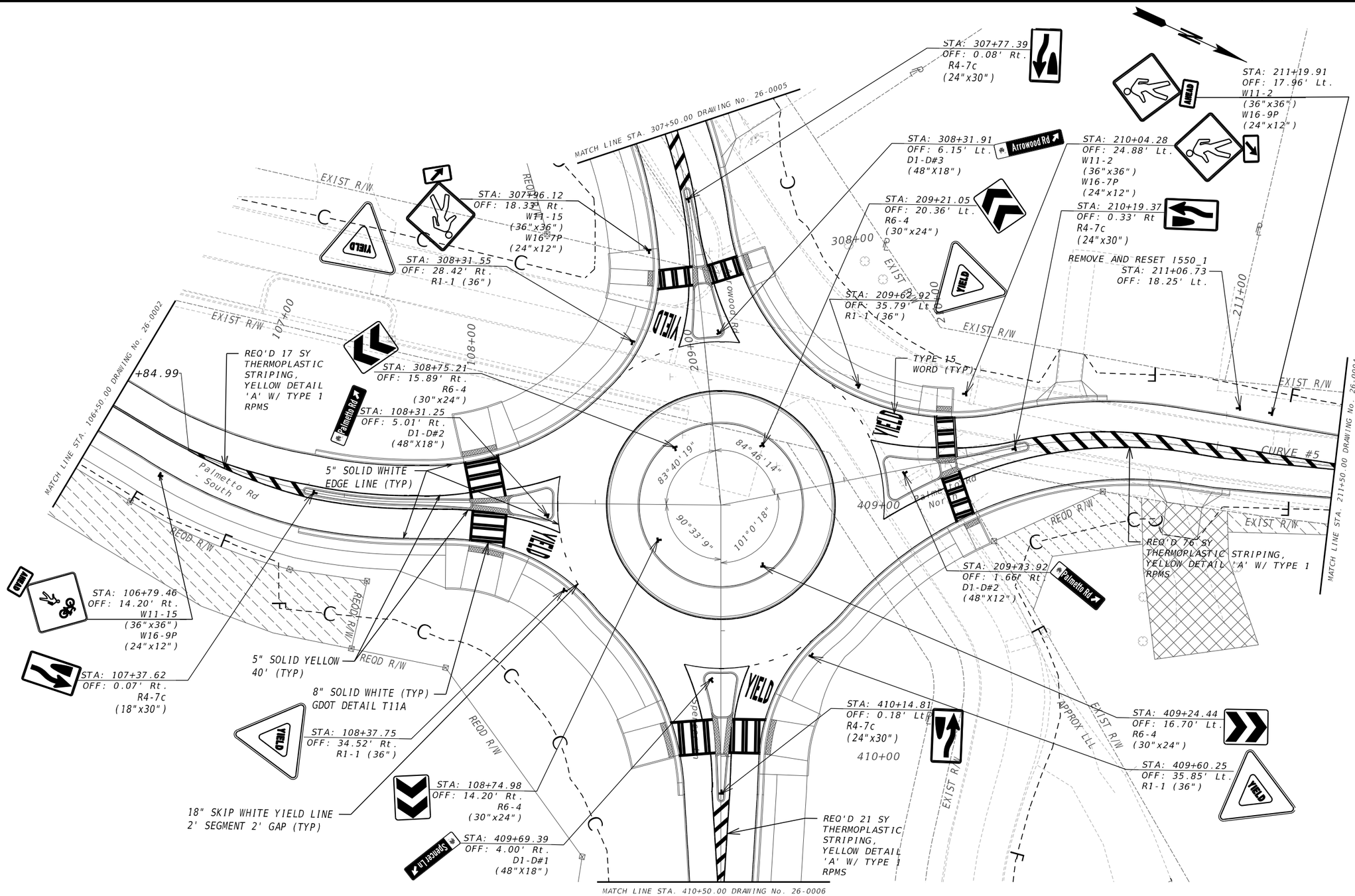

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

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0 20 40 80

REVISION DATES		

SIGNING AND MARKING PLANS
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BACKCHECKED:		DATE:		26-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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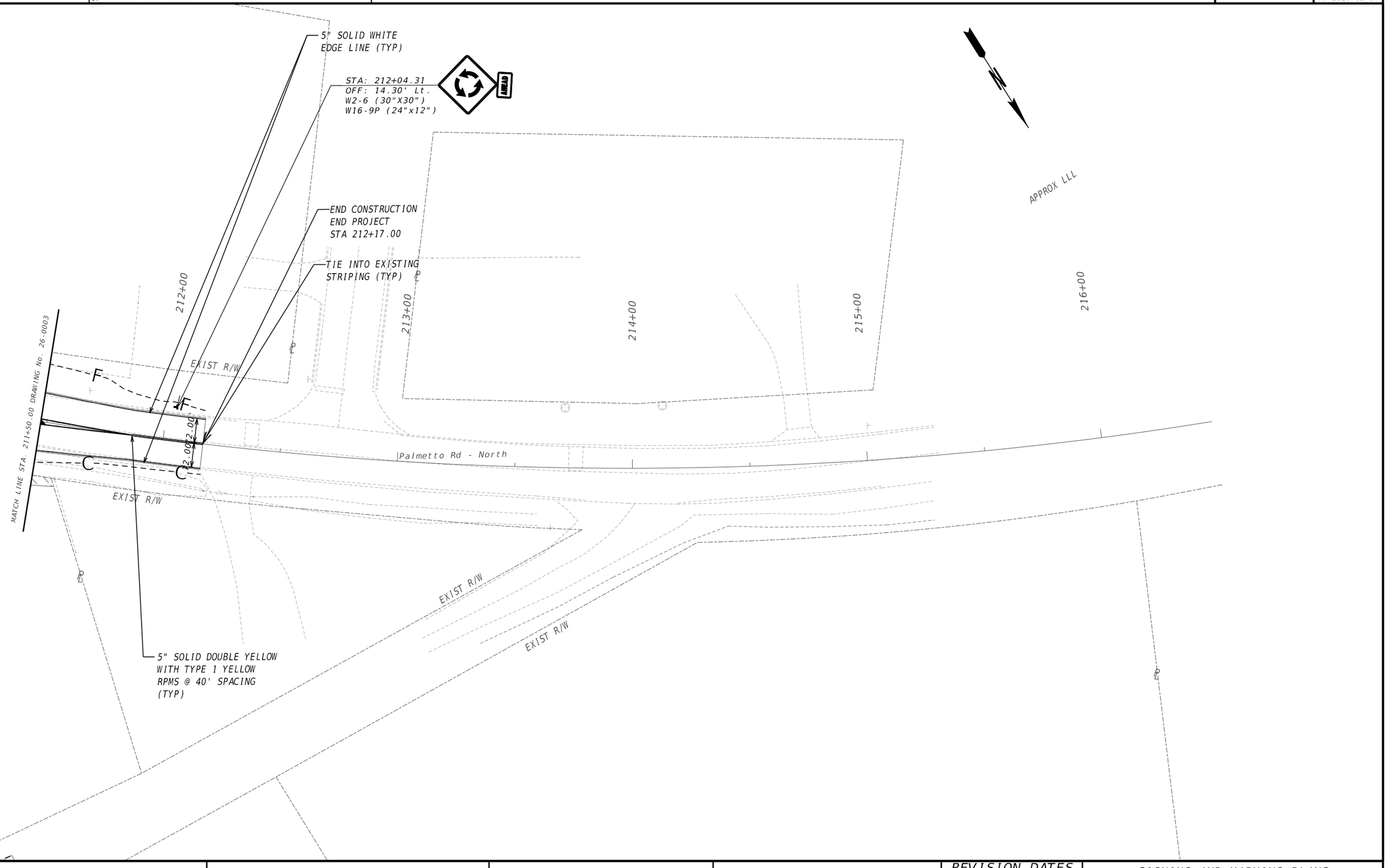

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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

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REVISION DATES

SIGNING AND MARKING PLANS
PALMETTO ROAD AT
ARROWOOD/SPENCER

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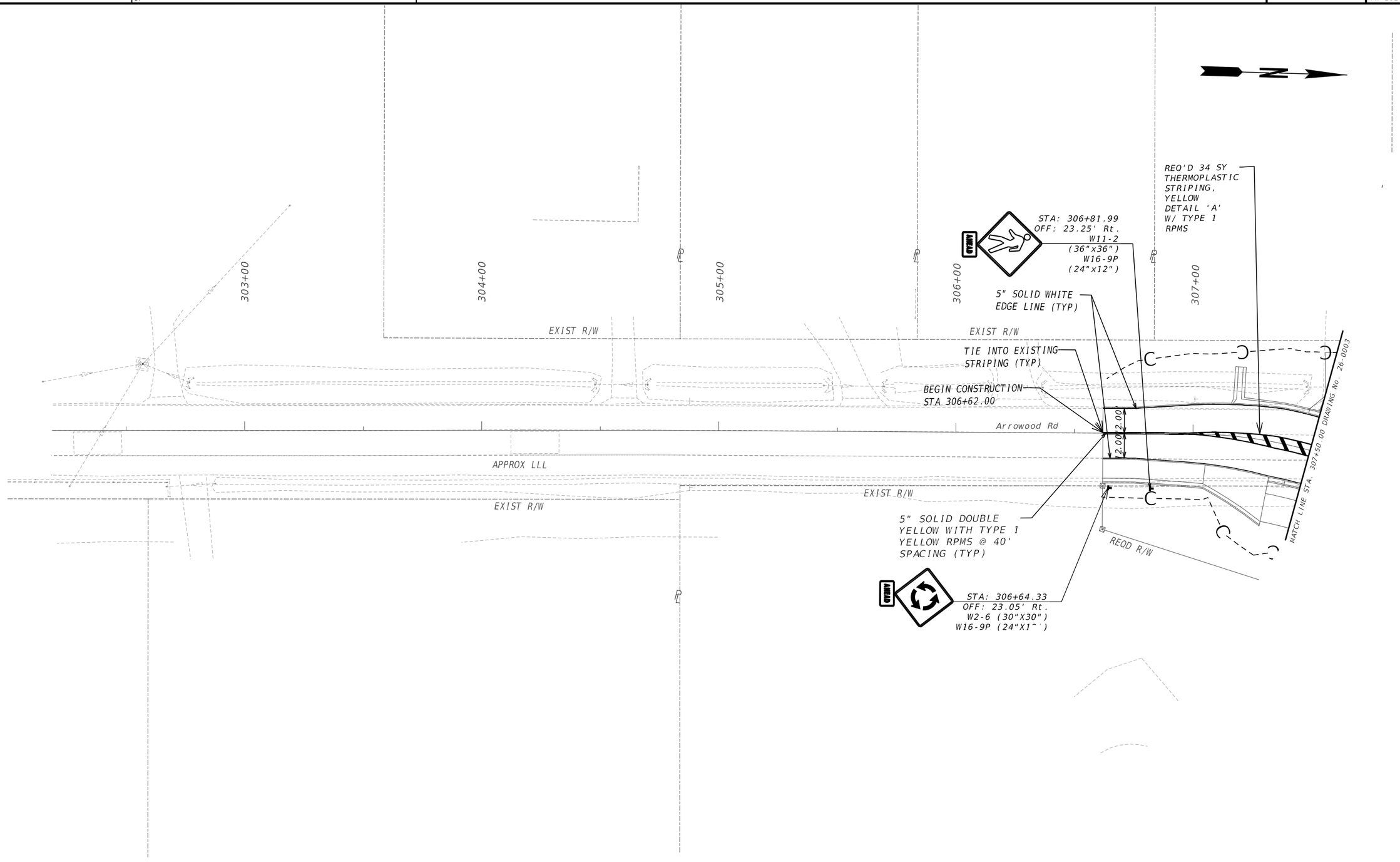

PROPERTY AND EXISTING R/W LINE
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EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
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REVISION DATES

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VERIFIED:		DATE:		

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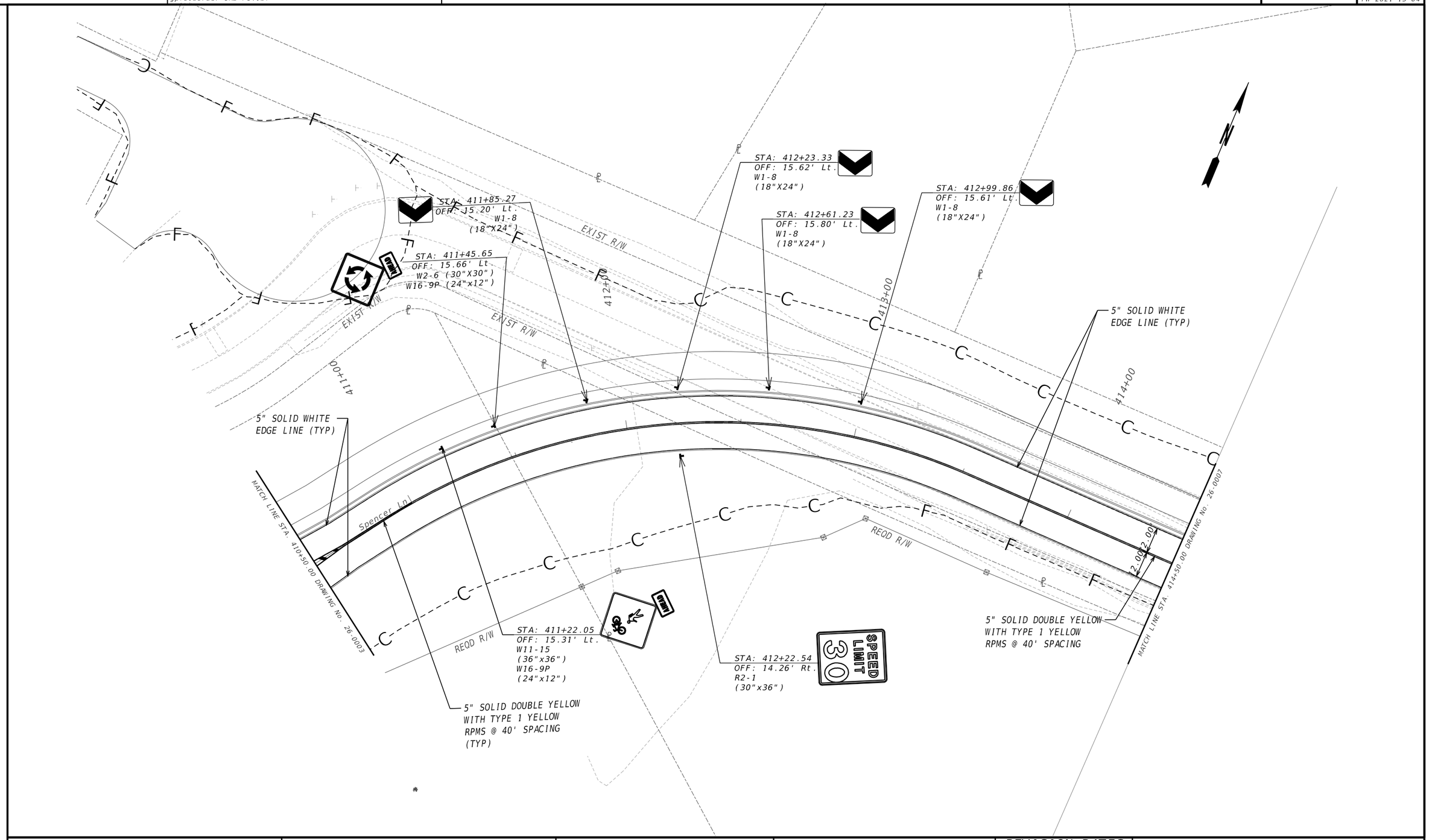

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REVISION DATES		

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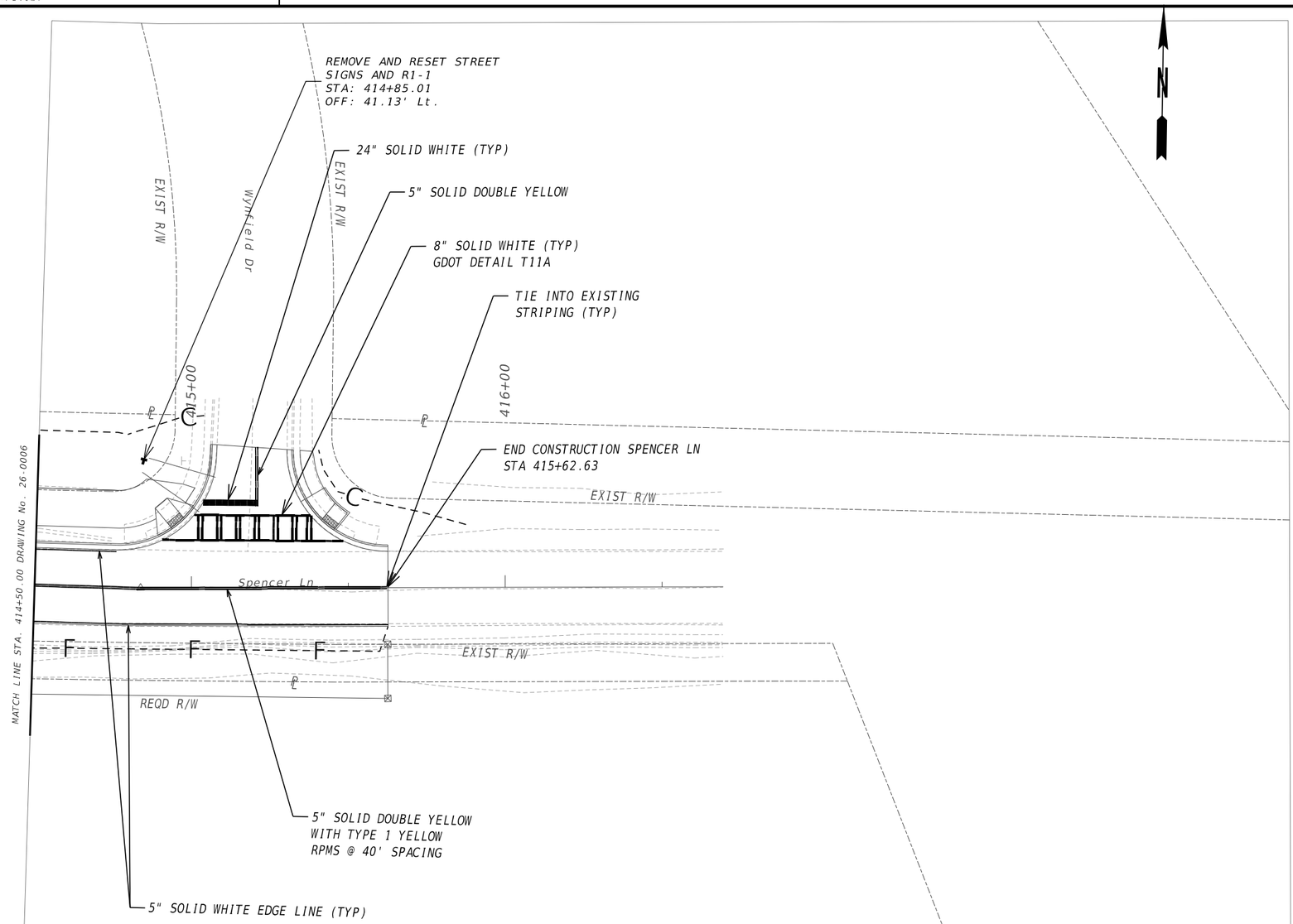

PROPERTY AND EXISTING R/W LINE
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CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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BEGIN LIMIT OF ACCESS.....BLA
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EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
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SCALE IN FEET
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REVISION DATES

SIGNING AND MARKING PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

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CORRECTED:		DATE:		
VERIFIED:		DATE:		

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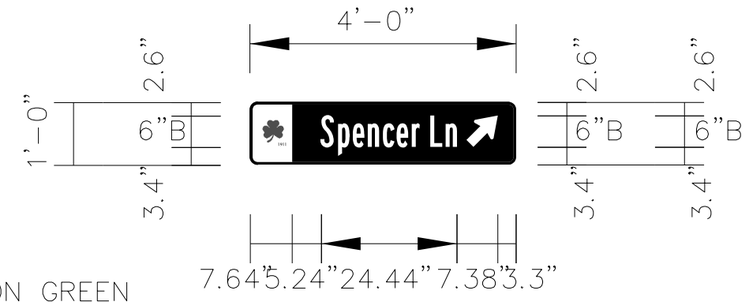
DIMENSIONS OF DESTINATION SIGNS

D3-D#1



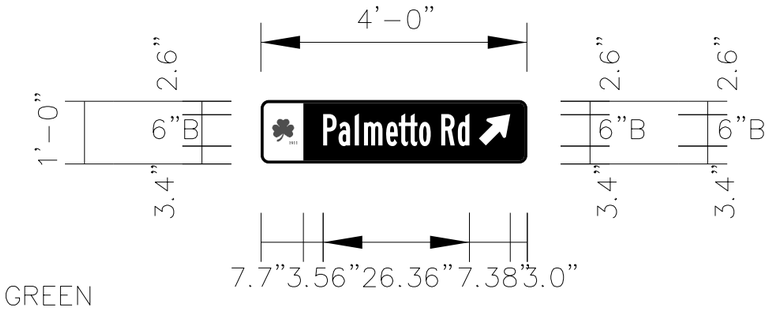
WHITE ON GREEN

BORDER
R=1.5"
TH=0.5"

LOGO: GREEN ON WHITE

BORDER
R=1.5"
TH=0.5"

D3-D#2



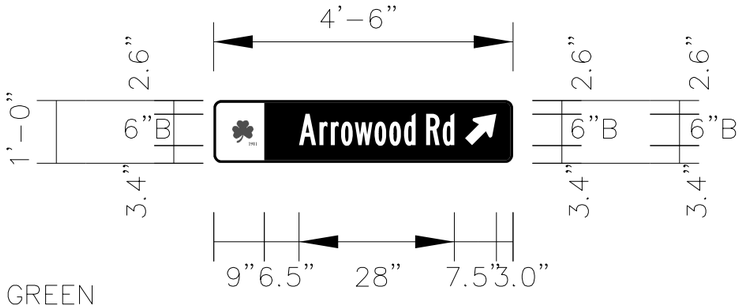
WHITE ON GREEN

BORDER
R=1.5"
TH=0.5"

LOGO: GREEN ON WHITE

BORDER
R=1.5"
TH=0.5"

D3-D#1



WHITE ON GREEN

BORDER
R=1.5"
TH=0.5"

LOGO: GREEN ON WHITE

BORDER
R=1.5"
TH=0.5"

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REVISION DATES

SIGNING AND MARKING PLANS
PALMETTO ROAD AT
ARROWOOD/SPENCER

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VERIFIED:		DATE:		

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EXISTING UTILITIES

- EXISTING GUY WIRE
- EX. OH ELECTRIC
- EX POWER POLE
- EX TRANSFORMER
- EX. UG ELECTRIC
- EX GAS LINE
- EX GAS METER
- EX GAS VALVE
- EX WATER LINE
- EX FIRE HYDRANT
- EX WATER METER
- EX WATER VALVE
- EX SANITARY SEWER
- EX SS MANHOLE
- EX TELEPHONE MH
- EX OH TELEPHONE
- EX TELEPHONE POLE
- EX UG TELEPHONE
- EX OH CABLE TV
- EX UG CABLE TV
- EX STORM DRAIN
- EX CATCH BASIN
- EX DROP INLET
- EX SD MANHOLE

EXISTING SIGNAL

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 5 SECTION HEAD
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP
- PULLBOX, TP 1
- PULLBOX, TP 2
- PULLBOX, TP 4
- PULLBOX, TP 5
- 6x6 CALL LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT
- RAILROAD CONTROLLER
- SIGN POST

PROPOSED SIGNAL

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 3 SECTION HEAD W/ BACKPLATE
- 4 SECTION HEAD
- 4 SECTION HEAD W/ BACKPLATE
- 5 SECTION HEAD
- 5 SECTION HEAD W/ BACKPLATE
- OVERHEAD STREET NAME SIGN
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP
- PULLBOX, TP 2
- PULLBOX, TP 3
- PULLBOX, TP 4
- PULLBOX, TP 6
- PULLBOX, TP 7
- 6x6 PULSE LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT (BORED)
- CONDUIT (TRENCHED)
- RAILROAD CONTROLLER
- SIGN POST
- ELECTRICAL SERVICE POINT
- RADAR DETECTION DEVICE
- MAGNETOMETER DETECTION DEVICE
- VIDEO DETECTION DEVICE
- VIRTUAL DETECTION ZONE (RADAR, VIDEO, ETC.)

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

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REVISION DATES

SIGNAL PLANS

PALMETTO ROAD AT ARROWOOD/SPENCER

LEGEND

CHECKED:		DATE:		DRAWING No.
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VERIFIED:		DATE:		

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TRAFFIC SIGNAL GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES, 2021 (OR LATEST) EDITION AND SUPPLEMENTAL THERETO, AS PROVIDED BY THE FEDERAL HIGHWAY ADMINISTRATION.

2. INSTALLATION OF RRFB ASSEMBLIES AT THIS INTERSECTION IS TO BE CHECKED AND ACCEPTED BY THE DEKALB COUNTY TRAFFIC ENGINEER PRIOR TO FINAL ACCEPTANCE.

3. THE RECTANGULAR RAPID FLASHING BEACON (RRFB) INSTALLATIONS SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.

4. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN GDOT SPECIFICATIONS.

5. ALL EXISTING STOP BARS, WORDS, ARROWS AND CROSSWALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE REPLACED IN ACCORDANCE WITH CURRENT GDOT STANDARDS. SEALING/MEASURING PLANS AND VERIFYING FIELD CONDITIONS.

6. SAWCUTS AND REMOVAL OF ALL CONCRETE ASSOCIATED WITH CURB CUT RAMPS SHALL BE INCLUDED IN THE SIDEWALK PAY ITEM.

7. THE CONTRACTOR SHALL REPLACE IN KIND AND SIZE, AT NO SEPERATE EXPENSE TO THE DEPARTMENT, ANY BARRIER WALL, FENCE, DITCH PAVING, CURBING, SIDEWALK, GUTTER, SLOPE PAVEMENT, SIGNS, GUARDRAILS, LANDSCAPING, GRASSINGS, UTILITY SERVICE LINES, STORM DRAIN PIPES,MASONRY WALLS AND PAVING THAT IS REMOVED, DAMAGED OR DESTROYED DUE TO CONTRACTOR'S ACTIVITIES.

8. ALL HARDWARE ASSOCIATED WITH THE RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLIES SHALL BE BLACK IN COLOR.

9. ALL PEDESTRIAN PEDESTAL POLES SHALL HAVE A SMOOTH BLACK FINISH.

10. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE TOWN OF TYRONE DEPARTMENT OF PUBLIC WORKS AT (770) 487-4038.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES TO ENSURE COMPLIANCE TO ALL STATE AND FEDERAL LAWS AND GUIDELINES, THE COST SHALL BE CONSIDERED INCIDENTAL AND BE INCLUDED IN THE OVERALL BID PRICE. NO ADDITIONAL PAYMENTS SHALL BE MADE TO THE CONTRACTOR FOR EROSION CONTROL.

12. ALL TRAFFIC MARKINGS, SYMBOLS OR STRIPING TO BE REMOVED AND/OR REPLACED SHALL BE PAID FOR IN THE TRAFFIC CONTROL LUMP SUM ITEM, UNLESS SPECIFIED OTHERWISE IN THE PLANS.

13. CONTRACTOR SHALL VERIFY THAT TREES AND/OR TREE LIMBS DO NOT CONFLICT WITH VISIBILITY RRFB ASSEMBLIES. PAYMENT FOR TREE AND/OR TREE LIMB REMOVAL SHALL BE INCLUDED IN OVERALL PRICE FOR RRFB INSTALLATION.

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REVISION DATES

SIGNAL PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER
GENERAL NOTES

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		27-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

INSTALL:
PEDESTAL POLE, 15 FT
RRFB BAR
WIRELESS RADIO NETWORK CONTROLLER
SOLAR PANEL ASSEMBLY
W11-15 SIGN (FYG)
W16-7PL SIGN (FYG)
PUSH BUTTON STATION AND SIGN,
WITH APS/AID TECHNOLOGY, TYPE B
R10-25 SIGN

INSTALL:
PEDESTAL POLE, 15 FT
RRFB BAR (DOUBLE-SIDED)
WIRELESS RADIO NETWORK CONTROLLER
SOLAR PANEL ASSEMBLY
W11-15 SIGN (DOUBLE-SIDED) (FYG)
W16-7PR SIGN (DOUBLE-SIDED) (FYG)
PUSH BUTTON STATION AND SIGN,
WITH APS/AID TECHNOLOGY, TYPE B
R10-25 SIGN

W11-15/W16-9P
SIGN ASSEMBLY

INSTALL:
PEDESTAL POLE, 15 FT
RRFB BAR
WIRELESS RADIO NETWORK CONTROLLER
SOLAR PANEL ASSEMBLY
W11-15 SIGN (FYG)
W16-7PL SIGN (FYG)
PUSH BUTTON STATION AND SIGN,
WITH APS/AID TECHNOLOGY, TYPE B
R10-25 SIGN

INSTALL:
PEDESTAL POLE, 15 FT
RRFB BAR (DOUBLE-SIDED)
WIRELESS RADIO NETWORK CONTROLLER
SOLAR PANEL ASSEMBLY
W11-15 SIGN (DOUBLE-SIDED) (FYG)
W16-7PR SIGN (DOUBLE-SIDED) (FYG)
PUSH BUTTON STATION AND SIGN,
WITH APS/AID TECHNOLOGY, TYPE B
R10-25 SIGN

INSTALL:
PEDESTAL POLE, 15 FT
RRFB BAR
WIRELESS RADIO NETWORK CONTROLLER
SOLAR PANEL ASSEMBLY
W11-15 SIGN (FYG)
W16-7PL SIGN (FYG)
PUSH BUTTON STATION AND SIGN,
WITH APS/AID TECHNOLOGY, TYPE B
R10-25 SIGN

W11-15/W16-9P
SIGN ASSEMBLY

REGULATORY AND PEDESTRIAN SIGNS

PUSH BUTTON TO TURN ON WARNING LIGHTS
R10-25 (9"X12")

W11-15 (FYG) (36"X36")

W11-15 (FYG) (36"X36")

W16-7P (L/R) (FYG) (30"X18")

AHEAD
W16-9P (FYG) (24"X12")

SIGNAL LEGEND

- PROPOSED SIGNAL HEAD
- EXISTING SIGNAL HEAD
- RELOCATED SIGNAL HEAD
- PROPOSED 4-SECTION SIGNAL HEAD
- PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD

DETECTION LEGEND

- PROPOSED VIRTUAL DETECTION ZONE
- PROPOSED INDUCTIVE LOOP
- PROPOSED VIDEO DETECTION CAMERA
- PROPOSED MAGNETOMETER
- PROPOSED RADAR

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0 30 60 120

REVISION DATES

SIGNAL PLANS
RRFB INSTALLATION NO. 1
PALMETTO ROAD AT ARROWOOD/SPENCER

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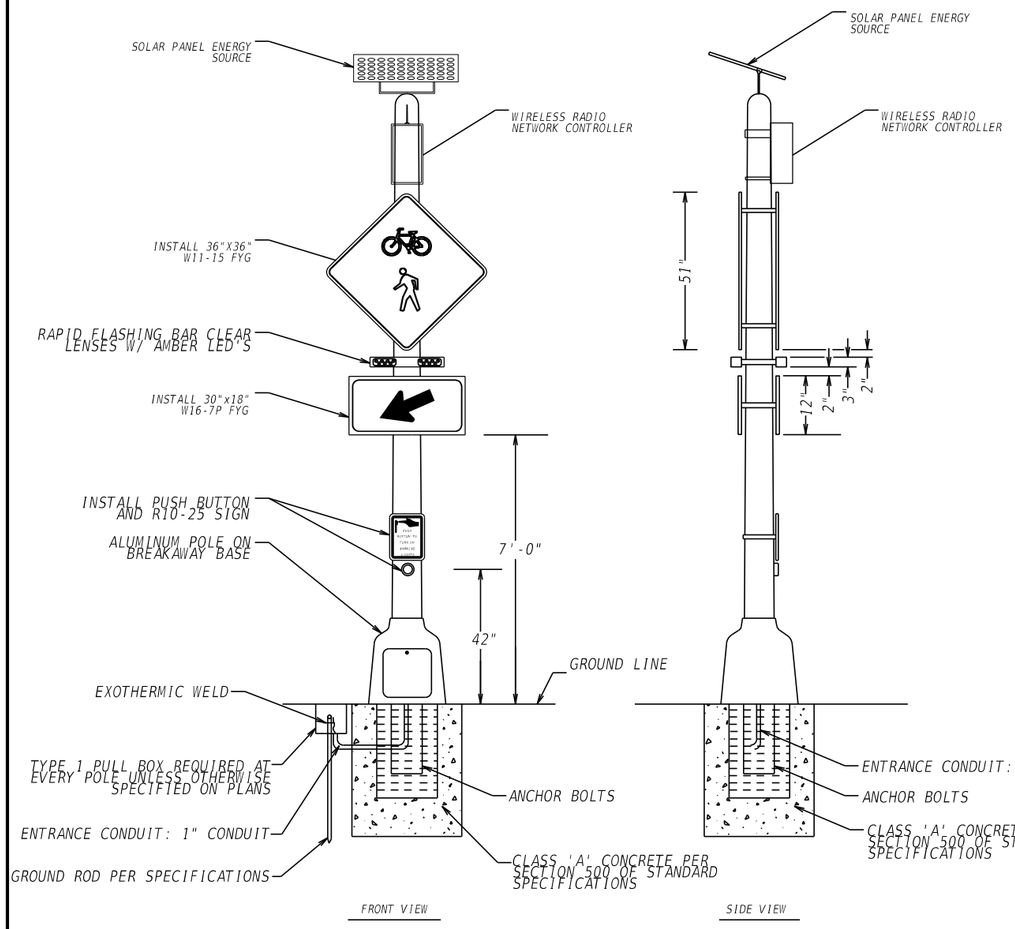
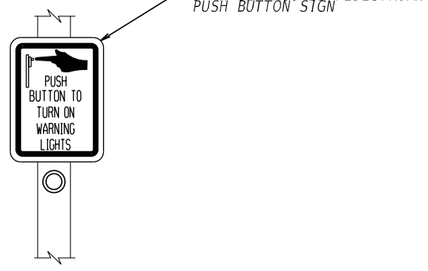


RECTANGULAR RAPID FLASHING BEACON SYSTEM

PEDESTRIAN PEDESTAL INSTALLATION

(DOUBLE-SIDED)



LIST OF MATERIALS - RECTANGULAR RAPID FLASHING BEACON NO. 1

LIST OF MATERIALS IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND QUANTITIES REQUIRED FOR INSTALLATION.

MATERIALS	UNIT	QUANTITY
15' PEDESTAL POLE WITH BREAKAWAY BASE (BLACK POWDER-COAT FINISH)	EA	6
PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS (WITH APS/AID TECHNOLOGY, TYPE B)		
1. 9"X12" R10-25	EA	6
PEDESTRIAN PUSH BUTTON STATION ADAPTERS (ONLY)	EA	6
RAPID FLASHING BAR - PEDESTRIAN PEDESTAL POLE MOUNTED	EA	8
WIRELESS RADIO NETWORK CONTROLLER - PEDESTRIAN PEDESTAL POLE MOUNTED	EA	6
SOLAR PANEL ENERGY SOURCE - PEDESTRIAN PEDESTAL POLE MOUNTED	EA	8
W11-15 SIGN - PEDESTRIAN PEDESTAL POLE MOUNTED	EA	8
W16-7PL SIGN - PEDESTRIAN PEDESTAL POLE MOUNTED	EA	3
W16-7PR SIGN - PEDESTRIAN PEDESTAL POLE MOUNTED	EA	3
MISC MATL TO COMPLETE INSTALLATION	LUMP SUM	1

*CONTRACTOR SHALL INSTALL R10-15R (MOD) EDGE-LIT SIGN ASSEMBLY. THIS FLASHING SEQUENCE SHALL BE ACIVATED/ILLUMINATED UPON ACTIVATION OF PEDESTRIAN PUSH BUTTON. CONTRACTOR SHALL ENSURE NETWORK CONROLLER COMMUNICATES DIRECTLY W/ RRFB UNITS.

PAY ITEMS

ITEM NO.		UNIT	QUANTITY
647-1030	RRFB INSTALLATION NO. 1 - PALMETTO RD AT ARRROWOOD/SPENCER MIDBLOCK CROSSING	LUMP SUM	1
999-3900	TESTING	LUMP SUM	1
999-3975	TRAINING	LUMP SUM	1

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SIGNAL PLANS

PALMETTO ROAD AT ARROWOOD/SPENCER

SUMMARY OF QUANTITIES

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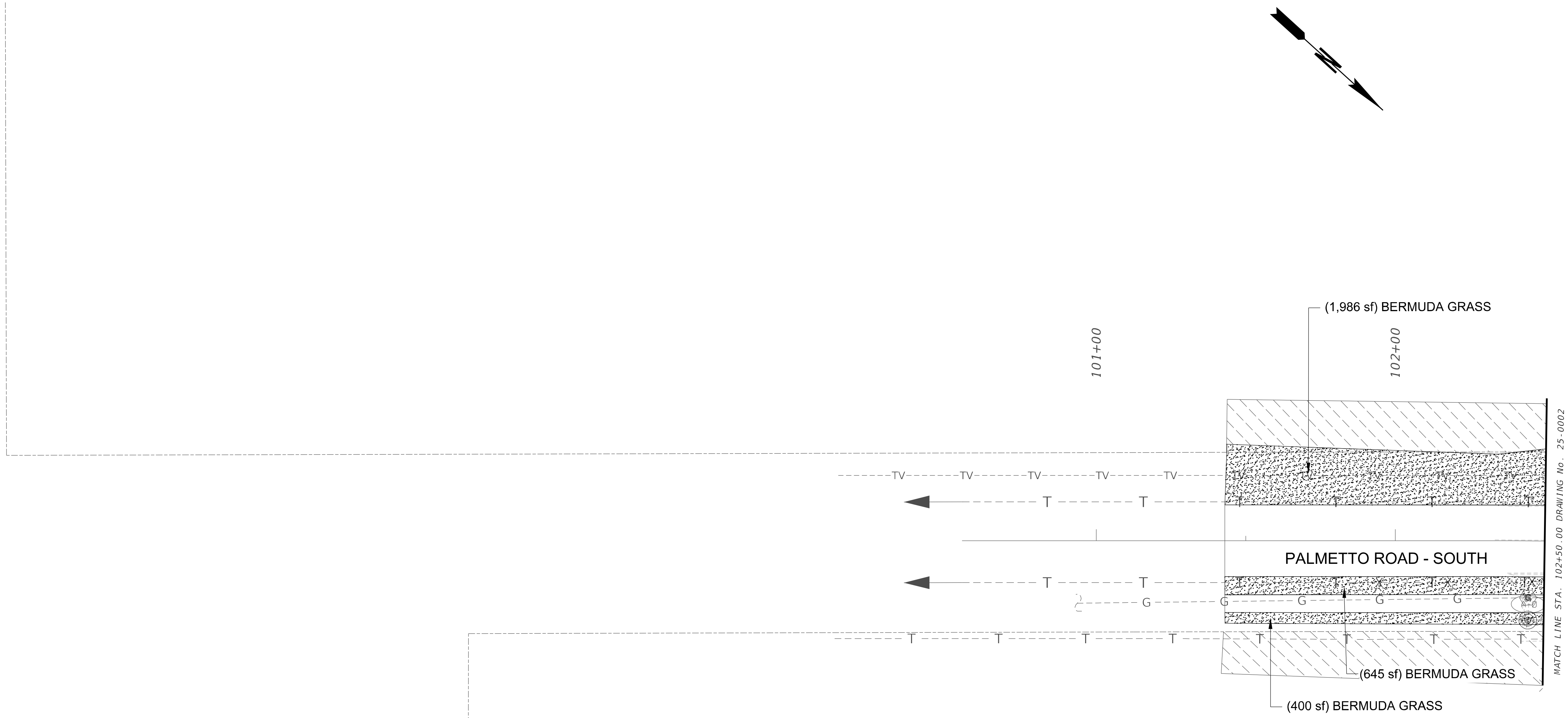

NOTES:
1. CONTRACTOR PRICE SHALL SHOW ALL DISTURBED AREAS BEING SODDED WITH BERMUDA GRASS, AS SHOWN IN PLANS. BID ALTERNATIVE #1 SHALL INCLUDE HYDROSEEDING IN LIEU OF SOD. SEE SHEET 06-0003 FOR DETAILS.
2. SEE SHEET 06-0003 FOR DETAILS REGARDING OTHER BID ALTERNATIVES FOR LANDSCAPING PLANS.

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LANDSCAPING PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

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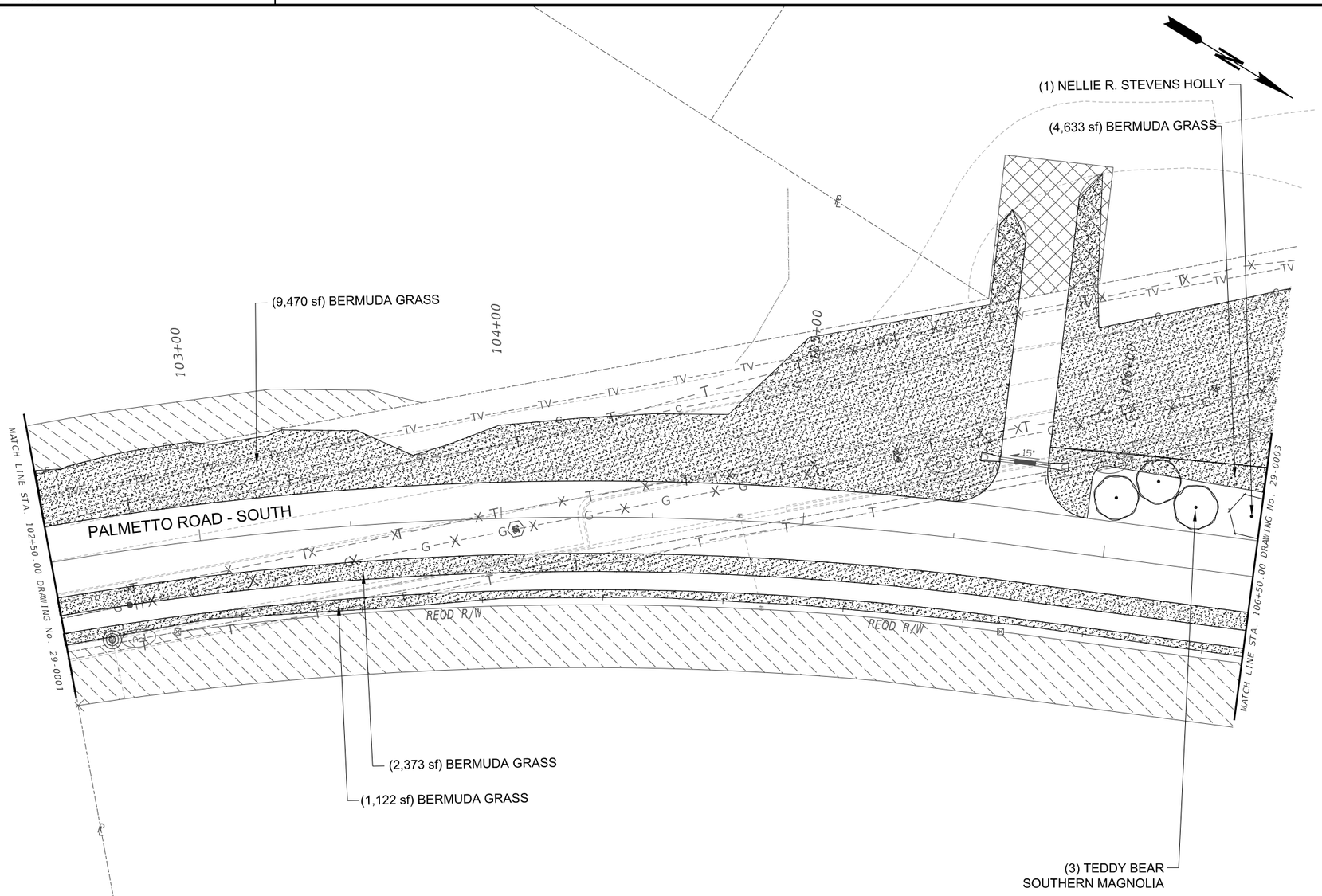
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 29-0001



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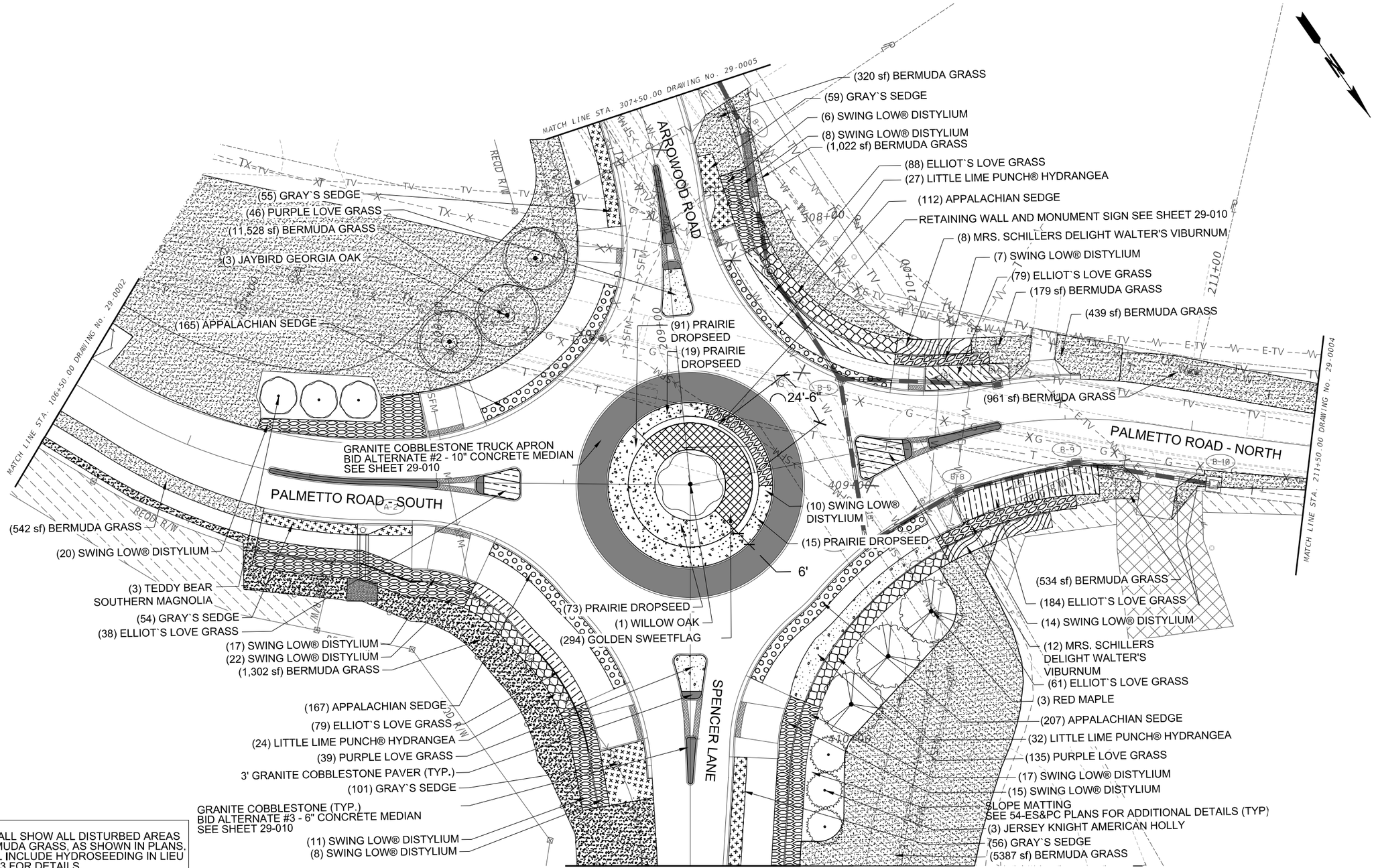

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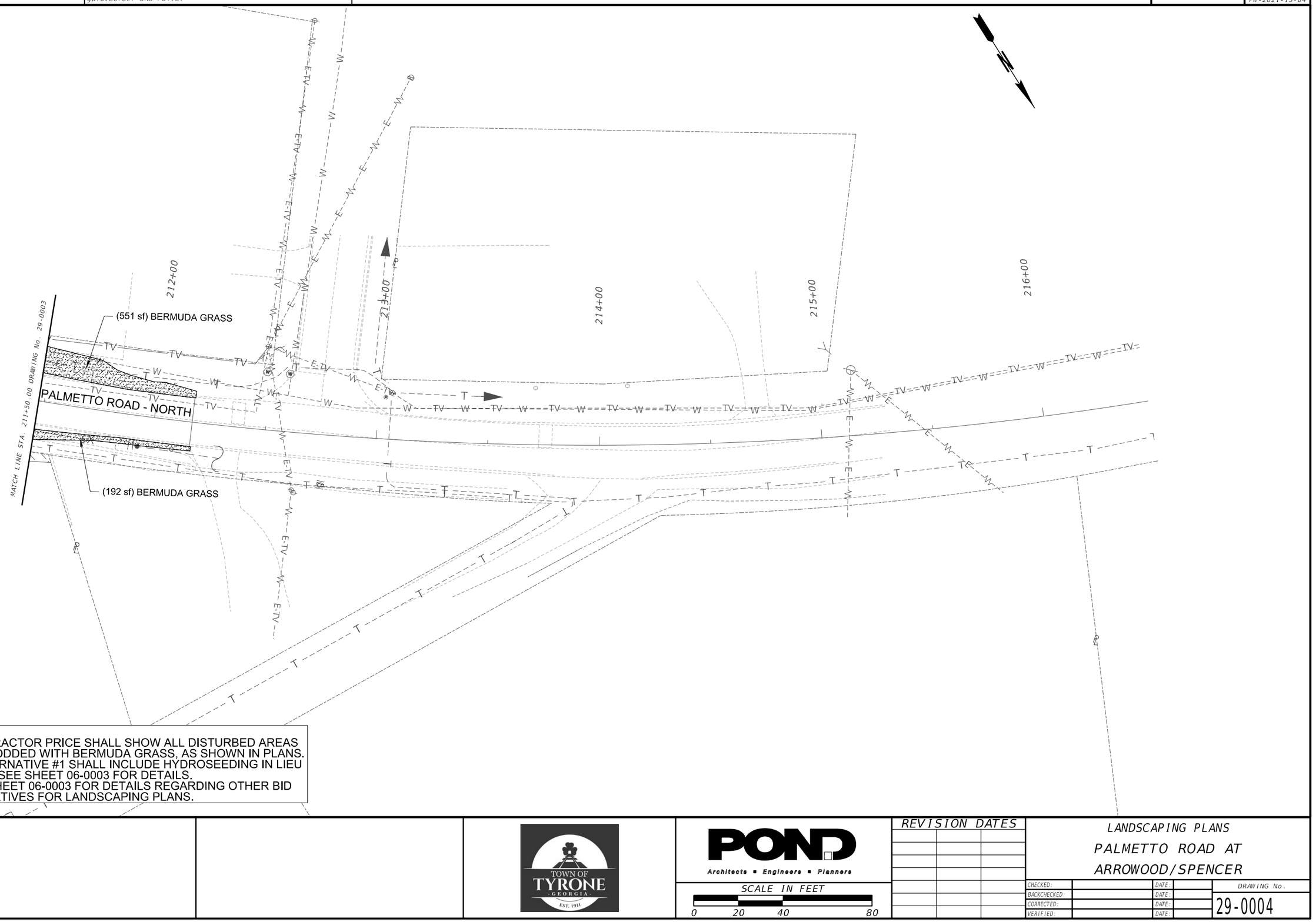

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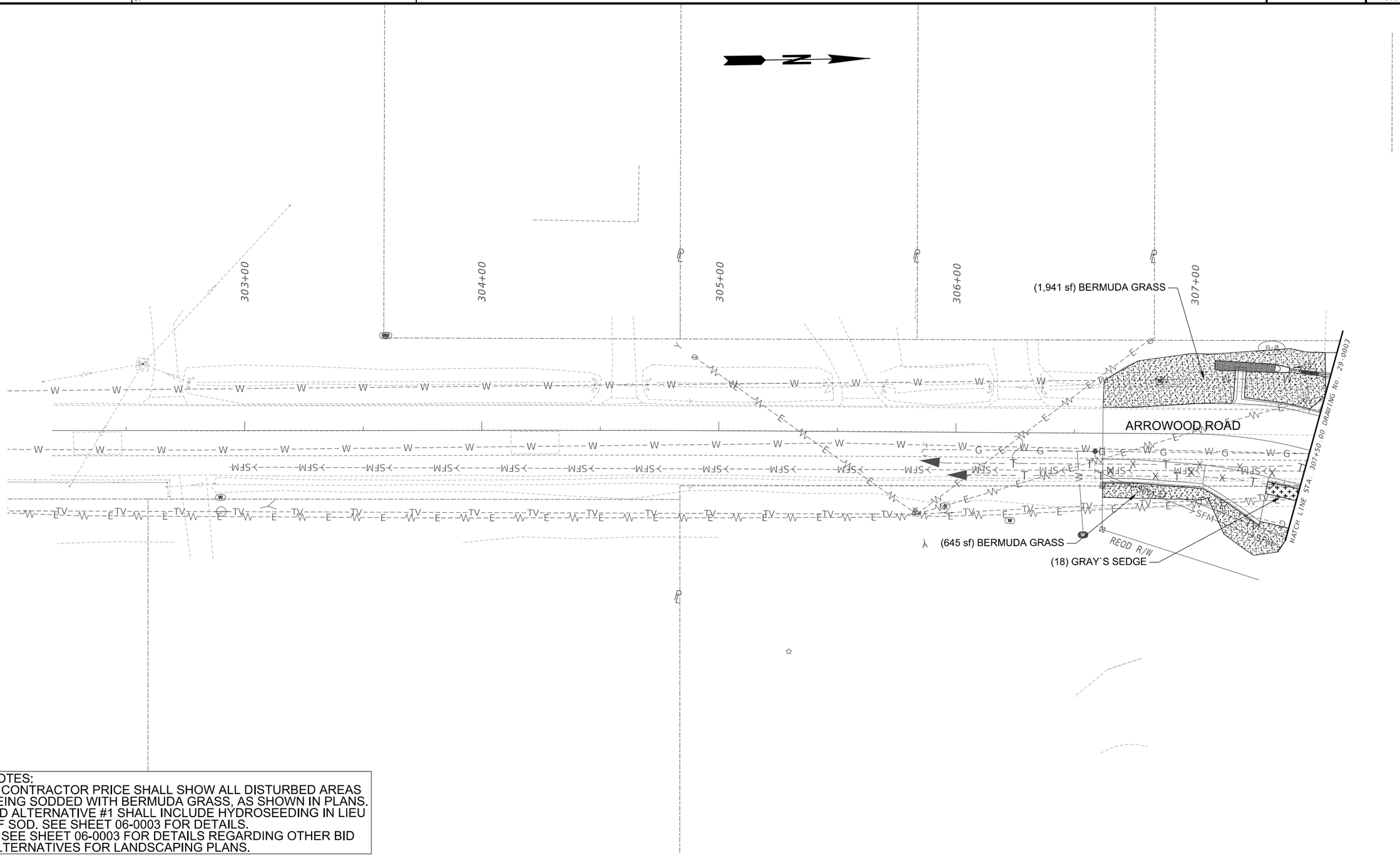

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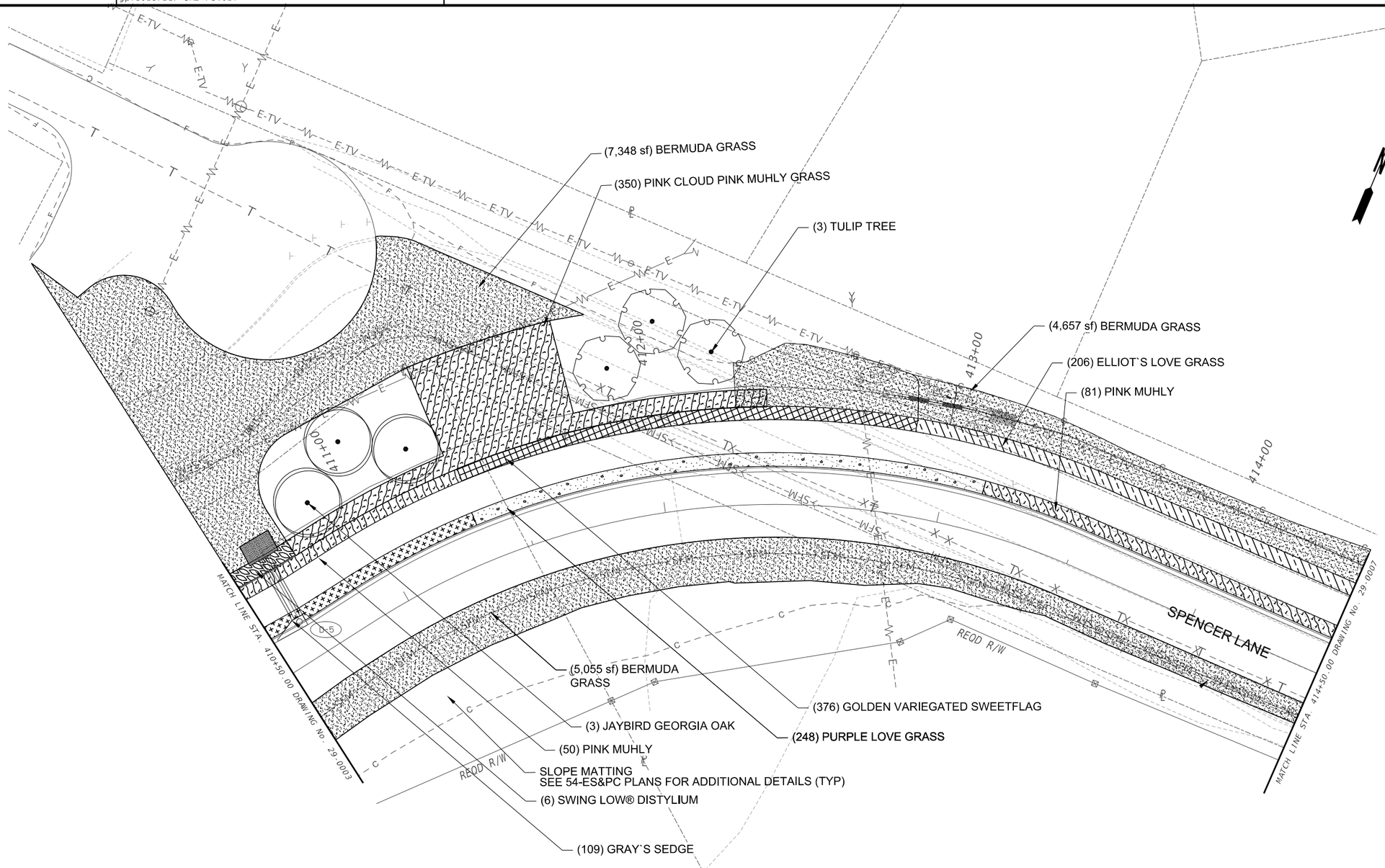

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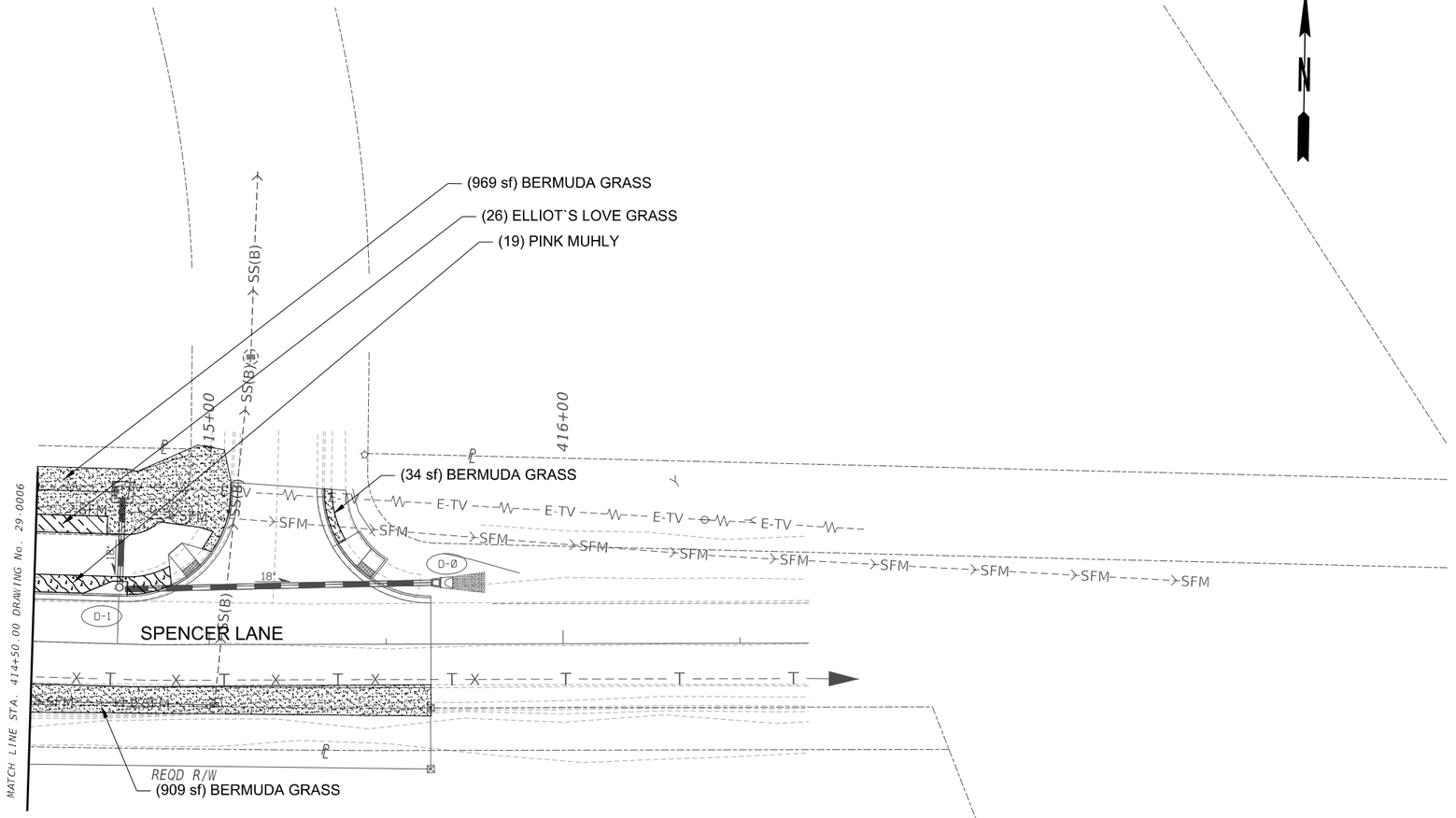

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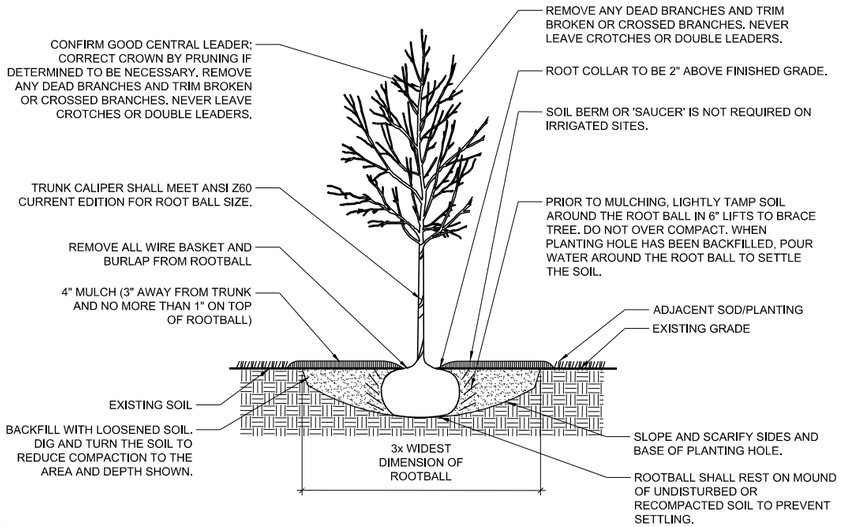


NOTES:
1) WHEN THE TREE IS MOVED, THE ROOTBALL SHOULD ALWAYS BE SUPPORTED. TREES SHOULD NEVER BE HANDLED BY THE TRUNK.
2) SET TOP OF ROOT BALL AT ADJACENT FINISH GRADE AND MOUND BACKFILL TO A 4" BERM AROUND ROOTBALL PERIPHERY.
3) REMOVE ALL STRAPS AND NON-BIODEGRADABLE MATERIAL; CUT AND BEND BACK TOP AND SIDES OF WIRE BASKET TO A MINIMUM OF 12" BELOW THE TOP OF THE ROOT BALL BEFORE FINAL BACKFILLING OF ROOT BALL.
4) CUT AND REMOVE BURLAP AND TWINE FROM TOP HALF OF BALL AFTER THE BALL HAS BEEN BACKFILLED.
5) IF TREE IS TO BE PLANTED IN AN AREA OF MODIFIED OR POORLY DRAINED SOIL, REFER TO DETAILS FOR THAT SPECIFIC CONDITION. IF SUCH CONDITIONS ARE NOTED IN THE FIELD NOTIFY DESIGN PROFESSIONAL BEFORE PLANTING.

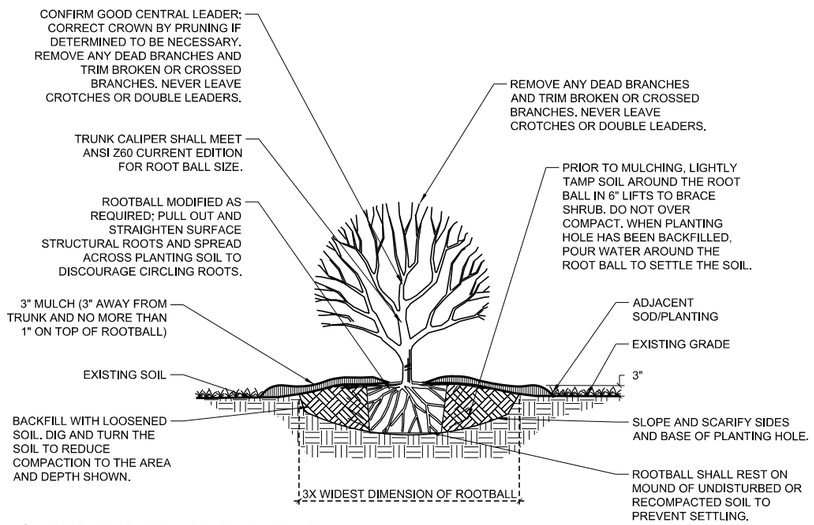
TYPICAL PLANTING HOLE DIAMETERS:
2"-3" CALIPER: 6 - 8 FEET
3"-4" CALIPER: 8 - 11 FEET
4"-5" CALIPER: 11 - 15 FEET

1 TREE PLANTING UP TO 4" CAL. (B&B)

SCALE: N.T.S

PLANT SCHEDULE

TREES (QTY)	BOTANICAL	COMMON	HT/SPD	CAL	SPACING	REMARKS
3	ACER RUBRUM	RED MAPLE	B&B	2" MIN	PER PLAN	FULL AND MATCHED. NO SPLIT LEADERS. FREE OF WEEDS,DISEASES AND INSECTS.
3	LIRIODENDRON TULIPIFERA	TULIP TREE	B&B	1.5" MIN	PER PLAN	FULL AND MATCHED. NO SPLIT LEADERS. FREE OF WEEDS,DISEASES AND INSECTS.
6	QUERCUS GEORGIANA `JAYBIRD`	JAYBIRD GEORGIA OAK	B&B	1.5" MIN	PER PLAN	FULL AND MATCHED. NO SPLIT LEADERS. FREE OF WEEDS,DISEASES AND INSECTS.
1	QUERCUS PHELLOS	WILLOW OAK	B&B	2" MIN	PER PLAN	FULL AND MATCHED. NO SPLIT LEADERS. FREE OF WEEDS,DISEASES AND INSECTS.
EVERGREEN TREES (QTY)	BOTANICAL	COMMON	HT/SPD	CAL		REMARKS
3	ILEX OPACA 'JERSEY KNIGHT'	JERSEY KNIGHT AMERICAN HOLLY	12`-14` HT	-	PER PLAN	FULL AND MATCHED. NO SPLIT LEADERS. FREE OF WEEDS,DISEASES AND INSECTS.
1	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY	12`-14` HT	-	PER PLAN	FULL AND MATCHED. NO SPLIT LEADERS. FREE OF WEEDS,DISEASES AND INSECTS.
6	MAGNOLIA GRANDIFLORA `TEDDY BEAR`	TEDDY BEAR SOUTHERN MAGNOLIA	8`-10` HT	-	PER PLAN	FULL AND MATCHED. NO SPLIT LEADERS. FREE OF WEEDS,DISEASES AND INSECTS.
SHRUB AREA (QTY)	BOTANICAL	COMMON	HT/SPD	CONT.	SPACING	REMARKS
646	ACORUS GRAMINEUS `OGON`	GOLDEN VARIEGATED SWEETFLAG	8" HT X 12" SPD MIN	1 GAL	18" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
651	CAREX APPALACHICA	APPALACHIAN SEDGE	18" HT X 18" SPD MIN	1 GAL	24" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
452	CAREX GRAYI	GRAY`S SEDGE	8" HT X 12" SPD MIN	1 GAL	24" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
161	DISTYLIUM X 'PIIDIST-VI'	SWING LOW\U+00AE DISTYLIUM	8" HT X 12" SPD MIN	1 GAL	60" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
700	ERAGROSTIS ELLIOTTII `WIND DANCER`	ELLIOT`S LOVE GRASS	8" HT X 12" SPD MIN	1 GAL	24" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
468	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	8" HT X 12" SPD MIN	1 GAL	24" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
83	HYDRANGEA PANICULATA `SMNHPH`	LITTLE LIME PUNCH\U+00AE HYDRANGEA	36" HT X 36' SPD MIN	3 GAL	48" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
500	MUHLENBERGIA CAPILLARIS	PINK MUHLY	18" HT X 18" SPD MIN	3 GAL	36" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
198	SPOROBOLUS HETEROLEPIS `TARA`	PRAIRIE DROPSEED	18" HT X 18" SPD MIN	1 GAL	36" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
20	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	MRS. SCHILLERS DELIGHT WALTER'S VIBURNUM	18" HT X 18" SPD MIN	1 GAL	60" o.c.	FULL IN POT. FREE OF WEEDS, DISEASES AND INSECTS.
GROUND COVER (QTY)	BOTANICAL	COMMON	HT/SPD	CONT.	SPACING	REMARKS
7,130 SY 64,149 SF	CYNODON DACTYLON '419 HYRBID'	BERMUDA GRASS	SOD	-	-	FREE OF WEEDS, DISEASES AND INSECTS.
2610 SY 230 CY	PLANT TOP SOIL	-	-	-	-	REFER TO LANDSCAPE NOTES FOR MORE INFORMATION.
1020 SY 90 CY	LANDSCAPE MULCH	-	-	-	-	REFER TO LANDSCAPE NOTES FOR MORE INFORMATION.



NOTES:
1) WHEN THE SHRUB IS MOVED, THE ROOTBALL SHOULD ALWAYS BE SUPPORTED. SHRUBS SHOULD NEVER BE HANDLED BY THE TRUNK.
2) SET TOP OF ROOT BALL A MINIMUM OF 2" ABOVE ADJACENT FINISH GRADE AND MOUND BACKFILL FLUSH WITH TOP OF ROOT BALL.
3) REMOVE EXCESS SUBSTRATE/SOIL AND SURFACE ROOTS TO EXPOSE ROOT COLLAR. REMOVE CIRCLING STRUCTURAL ROOTS INTERFERING WITH ROOT COLLAR.
4) SCARIFY ROOT BALL ON ALL SIDES TO ENCOURAGE FEEDER ROOT GROWTH.
5) ROPES AT TOP OF BALL SHALL BE CUT. REMOVE TOP $\frac{1}{2}$ OF BURLAP. NON-BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED.

2 SHRUB AND GRASS PLANTING

SCALE: N.T.S.

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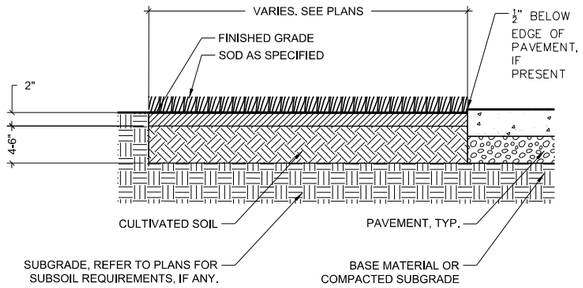
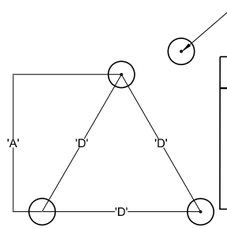
SODDING PROCEDURE:
1. THE GENERAL CONTRACTOR WILL PROVIDE GRADES TO +/- TWO TENTHS (0.20) OF A FOOT OF PROPOSED GRADES.
2. REFER TO DRAWINGS AND SPECIFICATIONS FOR ANY SPECIAL SUBSOILING REQUIREMENTS. AT A MINIMUM, BREAK THROUGH AND REMOVE ALL SUBGRADE SURFACE 'HARDPAN' AND DEBRIS TO ALLOW PERCOLATION AND POSITIVE DRAINAGE.
3. ADD ADDITIVES, SUCH AS TOPSOIL, SAND OR COMPOST (PER SOIL TEST ANALYSIS) AND ROTOTILL INTO SUBGRADE. CULTIVATE ENTIRE AREA TO A DEPTH OF 4-6". HANDRAKE SMOOTH.
4. CULTIVATED SOIL MAY CONSIST OF STOCKPILED TOPSOIL, FREE OF DELETERIOUS MATERIAL.
5. IF EXCESSIVELY DRY, LIGHTLY WATER AREA TO BE SODDED PRIOR TO LAYING SOD.
6. LAY & ROLL SOD. WATER THOROUGHLY.



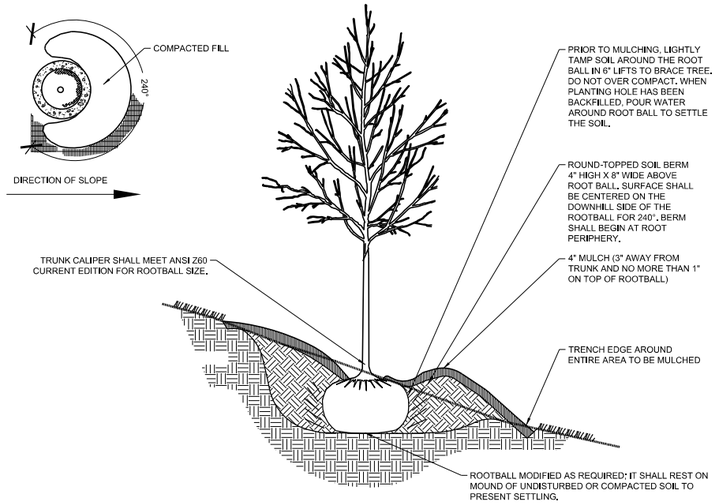
1 SODDING DETAIL
SCALE: N.T.S.

NOTE: GROUNDCOVERS, PERENNIALS, AND GRASSES TO BE INSTALLED WITH TRIANGULAR SPACING.



PLANT SPACING 'D'	ROW 'A'
8" O.C.	7.00" O.C.
10" O.C.	8.5" O.C.
12" O.C.	10.5" O.C.
18" O.C.	15.5" O.C.
24" O.C.	21.0" O.C.
36" O.C.	30" O.C.
48" O.C.	31.5" O.C.

2 TYPICAL PLANT SPACING
SCALE: N.T.S.



3 TREE PLANTING ON A SLOPE
SCALE: N.T.S.

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

LANDSCAPING PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

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BACKCHECKED:		DATE:		29-0009
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VERIFIED:		DATE:		

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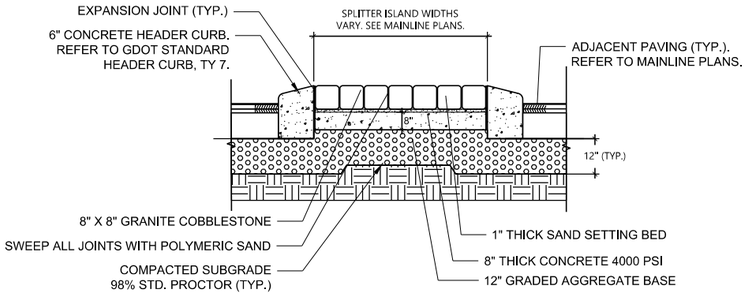
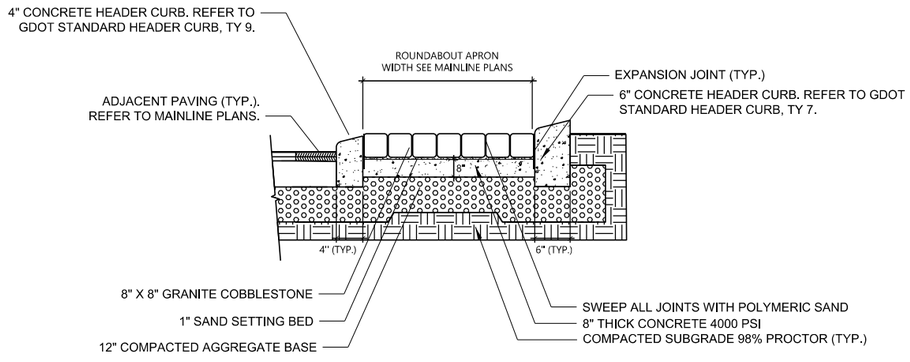
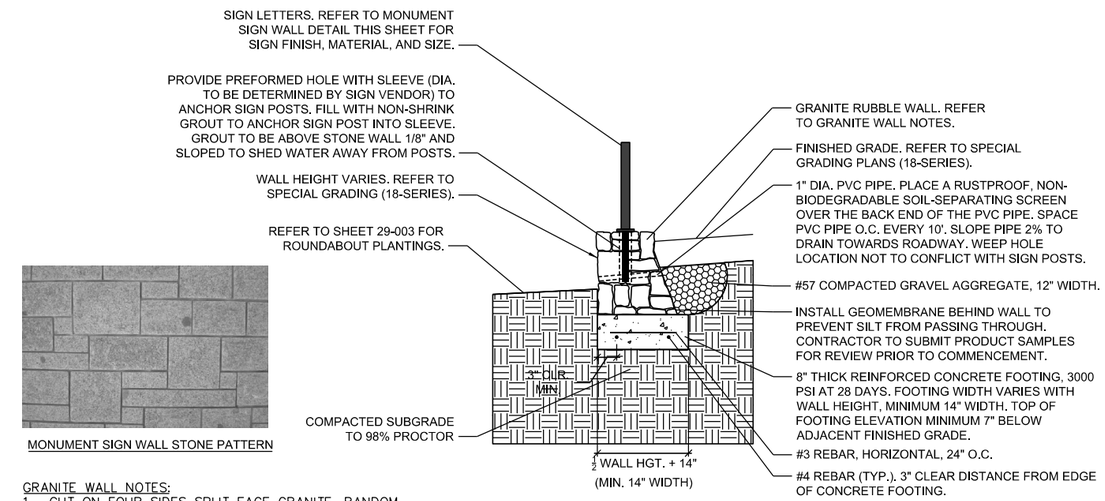


1 GRANITE COBBLESTONE PAVER (TYP.)
SCALE: 1/2" = 1'-0"

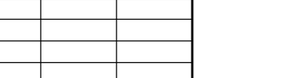


2 GRANITE COBBLESTONE TRUCK APRON
SCALE: 1/2" = 1'-0"



MONUMENT SIGN WALL STONE PATTERN

SECTION OF MONUMENT SIGN WALL



PLAN VIEW MONUMENT SIGN WALL

GRANITE WALL NOTES:
1. CUT ON FOUR SIDES SPLIT FACE GRANITE, RANDOM RECTANGULAR UNITS WITH ASHLAR COURSE HEIGHTS AND LENGTHS WITH PREDOMINATE HORIZONTAL ORIENTATION IN FACE OF WALL.
2. MINIMUM SIZE STONE: 6"
3. MAXIMUM SIZE STONE: 16"
4. MAINTAIN UNIFORM CONCAVE MORTAR JOINTS WIDTHS: 1/2"
5. COLOR: PROVIDE FULL RANGE OF GRAY COLOR SELECTIONS FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT; MORTAR TO MATCH.
6. PROVIDE 3' W x MAX. WALL HEIGHT MOCKUP FOR REVIEW AND APPROVAL. MOCK-IN-PLACE ACCEPTABLE.

3 RETAINING WALL AND MONUMENT SIGN
SCALE: N.T.S.

TOWN OF TYRONE - GEORGIA - EST. 1911

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LANDSCAPING PLANS
PALMETTO ROAD AT ARROWOOD/SPENCER

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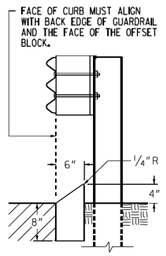
GDOT Georgia Department of Transportation — P. I. Number

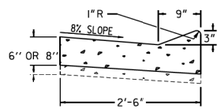


TYPE 8

TYPE 8 HEADER CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4382.

CURB TYPE	h	d
1	3" OR 4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	3" OR 4"	8" min.

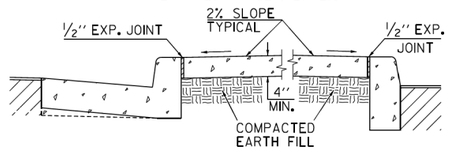
RAISED EDGE WITH CONCRETE GUTTER



RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

CONCRETE MEDIAN (Between Curbs)

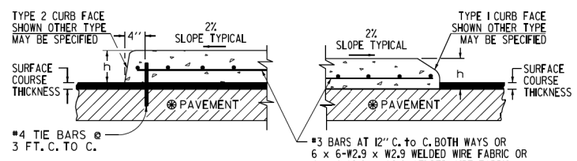
NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.



NOTE:
WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

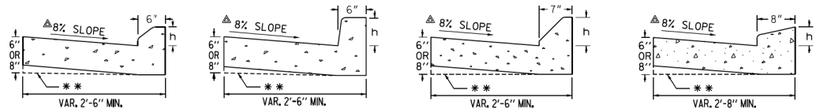
NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE MEDIANS (Integral)



NOTE:
IF FINAL SURFACE COURSE IS PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE CURB & GUTTER

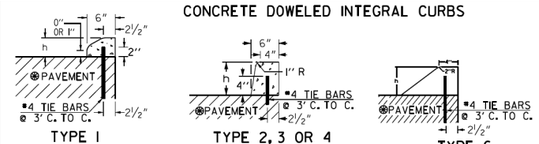


TYPE 1 | TYPE 2, 3 OR 4 | TYPE 7 | TYPE 9

** AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

△ WHEN POSITIVE SUPERELEVATION IS REQUIRED, THE SLOPE OF THE GUTTER ON THE HIGH SIDE SHALL BE A CONTINUATION OF THE SLOPE OF THE SUPERELEVATED PAVEMENT.

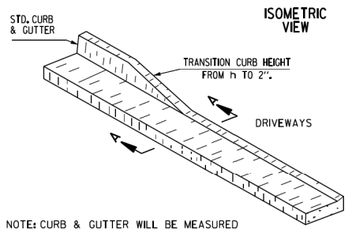
CONCRETE DOWELED INTEGRAL CURBS



● NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INTIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLAYING CONCRETE PAVEMENT.
2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVMENT.
3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDAIN AT 20 FT. SPACING.
5. TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT. (AASHTO M-30)

MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 OR 4	8"	12"
6	6"	8"
7	6"	8"
9	6"	8"

DETAILS OF RECESSED CURB FOR DRIVEWAYS

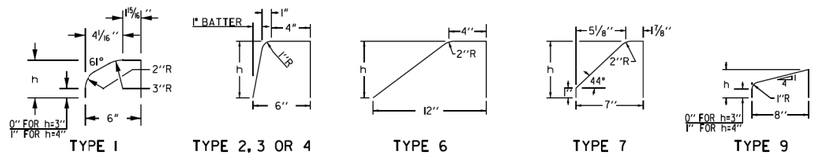


NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE

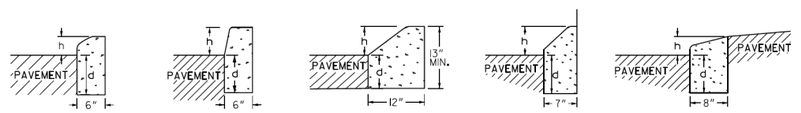
SECTIONAL VIEW
SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CURB FACE DESIGN

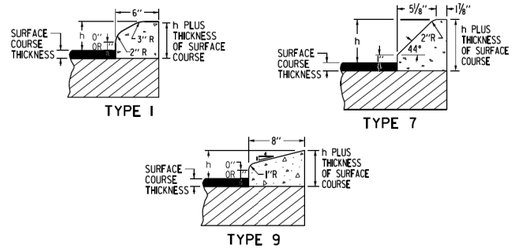


CONCRETE HEADER CURBS



THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

CONCRETE INTEGRAL CURB



07-04-22	ADD 3" HEIGHT TO TP 1& 9						
01-25-21	REV TP 1 CFD, RADIUS DIMS						
	REV TP 9 CFD, DIM HT TO 1"						
	FROM GR. LEVEL TO RADIUS			02-10-20			
	REV. TYP. 1 CFD, TYP. 8						
	OFFSET BLOCK & TYP 9 CURB						
	ADDED TP 9 CURB & GUTTER				II-15-11		
	REV. TYPE 9 CURB DETAIL					1-27-11	
	& REV. OVERALL LAYOUT						
	REV. MEDIAN NOTE AND						
	ADDED TYPE 9 CURB DETAIL						3-03
	ADDED TP 9 DETAIL						
ACP	ACP		JAHR		TC	GLO	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

NOT TO SCALE — MAR. 2003

DES. ___ DRW. ___ TRA. ___ CHK. ___

(SUBMITTED) STATE DESIGN POLICY ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9032B

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

LANDSCAPING PLANS
PALMETTO ROAD AT
ARROWOOD/SPENCER

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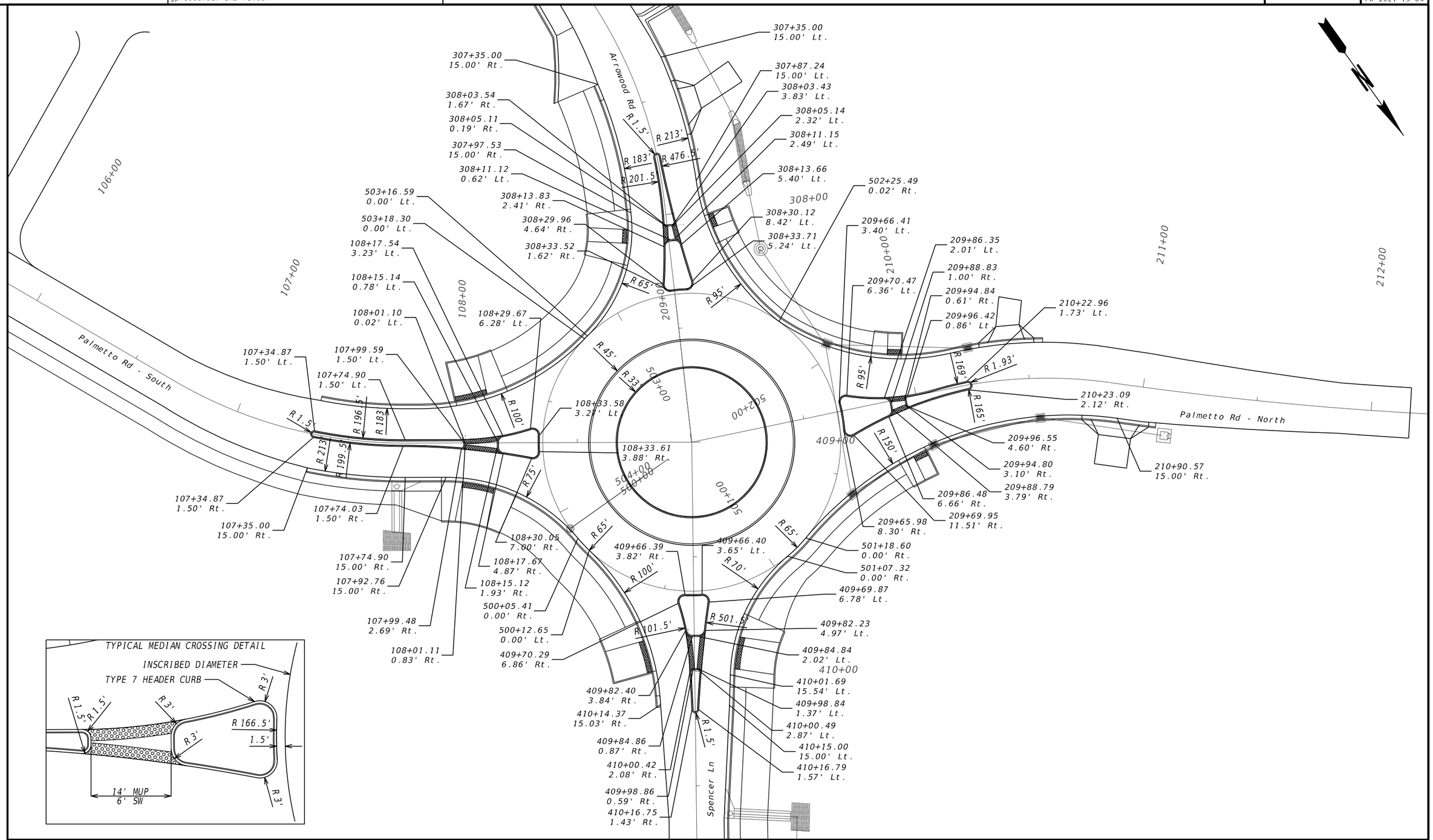

TYPICAL MEDIAN CROSSING DETAIL

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SCALE IN FEET
0 20 40 80

REVISION DATES

SPECIAL CONSTRUCTION DETAIL
PALMETTO ROAD AT
ARROWOOD/SPENCER

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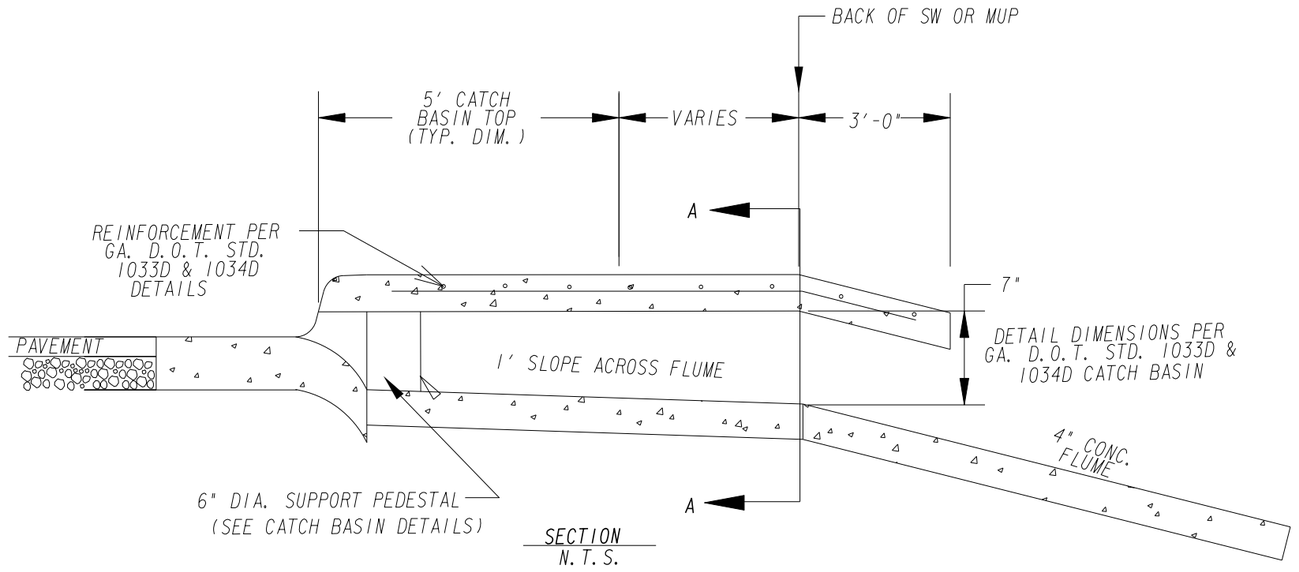

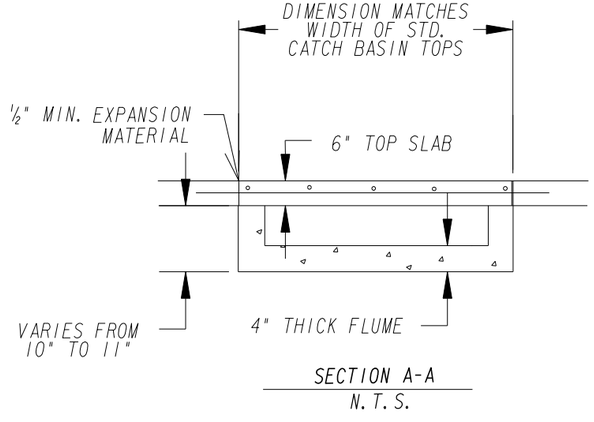

FLUME INLET DETAIL

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SPECIAL CONSTRUCTION DETAIL
PALMETTO ROAD AT ARROWOOD/SPENCER

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GENERAL NOTES

1. SANITARY SEWER IS BEING RELOCATED AS PART OF THE PALMETTO ROAD AT ARROWOOD ROAD/SPENCER LANE ROUNDABOUT PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOT DAMAGING EXISTING SEWER SEPTIC TANK DRAIN FIELDS.
3. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT MAY NOT BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE BEEN INSTALLED AND CONSTRUCTED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) AFFECTING HIS WORK. IN ADDITION TO CONTACTING THE LOCAL UTILITIES AGENCIES, THE CONTRACTOR SHALL GIVE THREE WORKING DAYS NOTICE TO THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 PRIOR TO ANY EXCAVATION.
4. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
5. THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT, REPAIR, REMOVE AND/OR RELOCATE ANY UTILITIES DURING CONSTRUCTION WITH LIKE MATERIALS AND CONSTRUCTION METHODS AS APPROVED BY THE ENGINEER AND THE OWNER AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ANY UTILITY RELOCATION AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION AND SHALL USE WHATEVER MEANS NECESSARY TO MANAGE STORM WATER SUCH THAT IMPACT TO CONSTRUCTION IS MINIMIZED.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE EXISTING STATE, COUNTY, CITY AND TOWN DESIGN AND CONSTRUCTION STANDARDS UNLESS THOSE STANDARDS CONFLICT WITH THESE CONTRACT DOCUMENTS IN WHICH CASE THESE CONTRACT DOCUMENTS SHALL GOVERN. SUCH CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
9. DEWATERING SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH PROJECT SPECIFICATIONS AS NECESSARY TO INSTALL/CONSTRUCT THE WORK PROPERLY. DEWATERING DISCHARGE SHALL BE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND REQUIREMENTS OF AGENCIES HAVING JURISDICTION.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARDS FOR EXCAVATIONS (29 CFR PART 1926-OCT 1989) AND TO ABIDE BY THEM. SAFETY IN, ON OR ABOUT THE SITE IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR ALONE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE 1992 GEORGIA HIGH VOLTAGE SAFETY ACT AND TO NOTIFY THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 BEFORE WORKING WITHIN 10 FEET OF OVERHEAD POWER LINES OF 750 VOLTS OR MORE.
12. THE OWNER RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS AND TO WAIVE ANY INFORMALITY IN BIDS RECEIVED WHENEVER SUCH REJECTION OR WAIVER IS IN ITS INTEREST.
13. A PRECONSTRUCTION CONFERENCE WITH THE ENGINEER IS REQUIRED PRIOR TO BEGINNING WORK.
14. ANY CHANGES IN THE APPROVED PLANS MUST BE COORDINATED WITH THE ENGINEER AND MUST BE APPROVED PRIOR TO PROCEEDING.
15. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A COPY OF "DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS CONSTRUCTION OF ROADS AND BRIDGES," LATEST EDITION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SHRUBBERY, TREES, OR STRUCTURES WITHIN THE WORKING AREA THROUGHOUT THE COURSE OF CONSTRUCTION. ANY TREES, SHRUBS, OR STRUCTURES DAMAGED OR DISTURBED SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD STAKING.
18. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A . WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
19. THE CONTRACTOR SHALL ALSO PREVENT POLLUTION OF THE ADJOINING STREAMS BY NOT CONDUCTING ANY ACTIVITIES IN THE BUFFER ZONE THAT ARE NOT ABSOLUTELY NECESSARY. FORBIDDEN ACTIVITIES IN THE BUFFER ZONE INCLUDED, BUT NOT LIMITED TO INCLUDE A. VEHICLE REFUELING AND MAINTENANCE B. DEPOSITING OF TRASH, WASTE, CONSTRUCTION DEBRIS, EXTRA CONCRETE AND ASPHALT, AND RESIDUE FROM EQUIPMENT CLEANING.
20. THE CONTRACTOR SHALL STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS. STORE WITH SEALS AND LABELS INTACT AND LEGIBLE. STORE SENSITIVE PRODUCTS IN WEATHER TIGHT, CLIMATE CONTROLLED, ENCLOSURES IN AN ENVIRONMENT FAVORABLE TO PRODUCT. FOR EXTERIOR STORAGE OF FABRICATED PRODUCTS, PLACE ON SLOPED SUPPORTS ABOVE GROUND. COVER PRODUCTS SUBJECT TO DETERIORATION WITH IMPERVIOUS SHEET COVERING. PROVIDE VENTILATION TO PREVENT CONDENSATION AND DEGRADATION OF PRODUCTS. PROVIDE EQUIPMENT AND PERSONNEL TO STORE PRODUCTS BY METHODS TO PREVENT SOILING, DISFIGUREMENT, OR DAMAGE. ARRANGE STORAGE OF PRODUCTS TO PERMIT ACCESS FOR INSPECTION. PERIODICALLY INSPECT TO VERIFY PRODUCTS ARE UNDAMAGED AND ARE MAINTAINED IN ACCEPTABLE CONDITION. CONTRACTOR SHALL NOT LEAVE ANY WASTE PRODUCTS ON THE GROUND, BUT SHALL REMOVE AND DISPOSE OF THEM PROMPTLY AND IN APPROVED LOCATIONS.
21. VEHICLE FUELING AND MAINTENANCE SHALL TAKE PLACE ONLY IN AREAS DESIGNATED BY THE OWNER.
22. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
23. WASHOUT OF CONCRETE DRUMS AND EQUIPMENT AT THE CONSTRUCTION SITE IS PROHIBITED.
24. THE CONTRACTOR SHALL COORDINATE SANITARY SEWER PUMP STATION SHUT OFF TIME(S) WITH SCOTT LANGFORD AT THE CITY OF TYRONE AT SCOTT.LANGFORD@TYRONE.ORG OR (770) 881-8325.

SHEET INDEX

Drawing Number	Drawing Description
44-0001	General Notes / Sheet Index / Legend
44-0002	Force Main Plan & Profile
44-0003	Construction Details

REVISION SUMMARY

Date	Drawing No.	Revision
5/3/2024	44-0001	Added Note 24.
5/3/2024	44-0002	Presentation cleanup. Added scale and tie in locations to profile.
5/3/2024	44-0003	Removed Standard Detail 1011A (Brick).

STANDARD DETAILS

Standard Drawings	Description	Revision Date
1011ap	Precast Reinforced Concrete Manhole	6/1/1975

EXISTING UTILITIES

	EXISTING GUY WIRE	-->SS------>SS----	EX SANITARY SEWER
---E---E-	EX.OH ELECTRIC	SS	EX SS MANHOLE
	EX POWER POLE	T	EX TELEPHONE MH
E	EX TRANSFORMER	---T---T--	EX OH TELEPHONE
--- E ------- E ---	EX.UG ELECTRIC		EX TELEPHONE POLE
--- G ------- G ---	EX GAS LINE	--- T ------- T ----	EX UG TELEPHONE
G	EX GAS METER	---TV---TV---	EX OH CABLE TV
G	EX GAS VALVE	---TV-------TV---	EX UG CABLE TV
---W-------W---	EX WATER LINE	==========	EX STORM DRAIN
FH	EX FIRE HYDRANT		EX CATCH BASIN
WM	EX WATER METER		EX DROP INLET
WV	EX WATER VALVE	SD	EX SD MANHOLE

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

SANITARY SEWER FORCE MAIN
RELOCATION INDEX
PALMETTO ROAD AT
ARROWOOD / SPENCER

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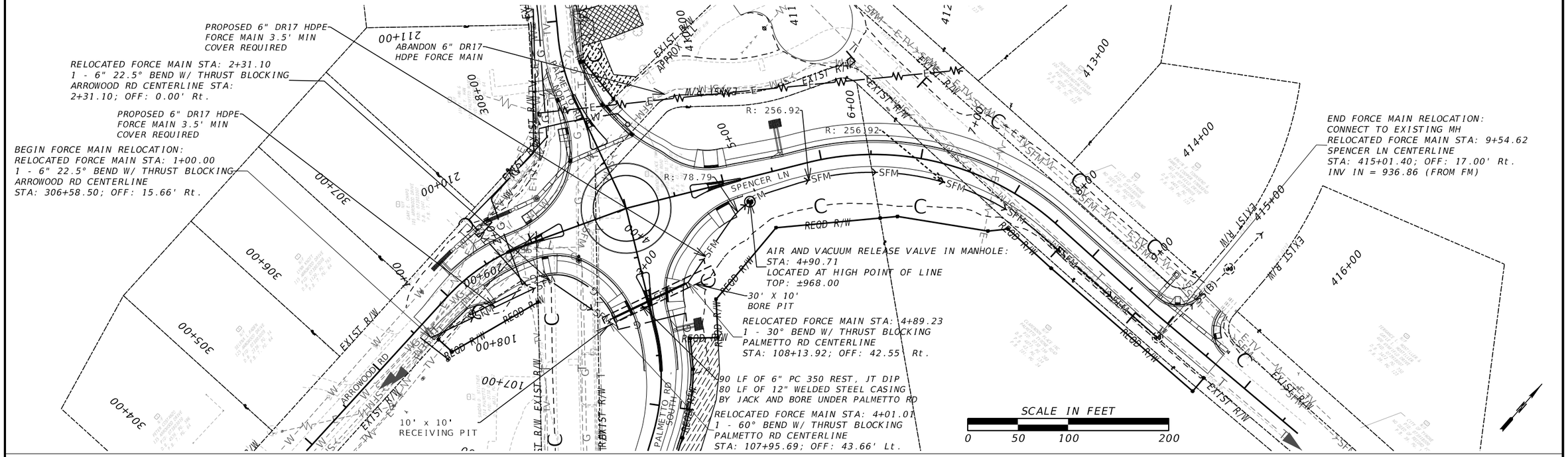

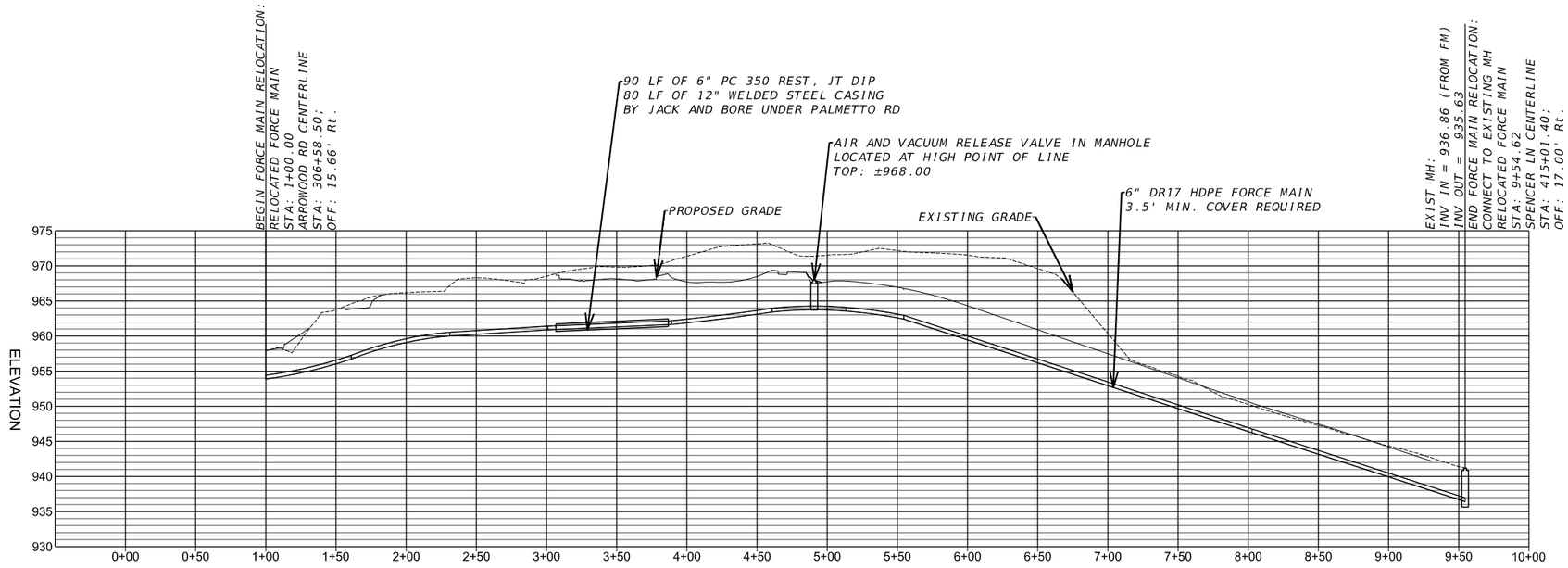

FORCE MAIN PROFILE
HORZ. SCALE 1"= 50'
VERT. SCALE 1"= 10'

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

SANITARY SEWER FORCE MAIN RELOCATION PLAN & PROFILE
PALMETTO ROAD AT ARROWOOD / SPENCER

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VERIFIED:		DATE:		

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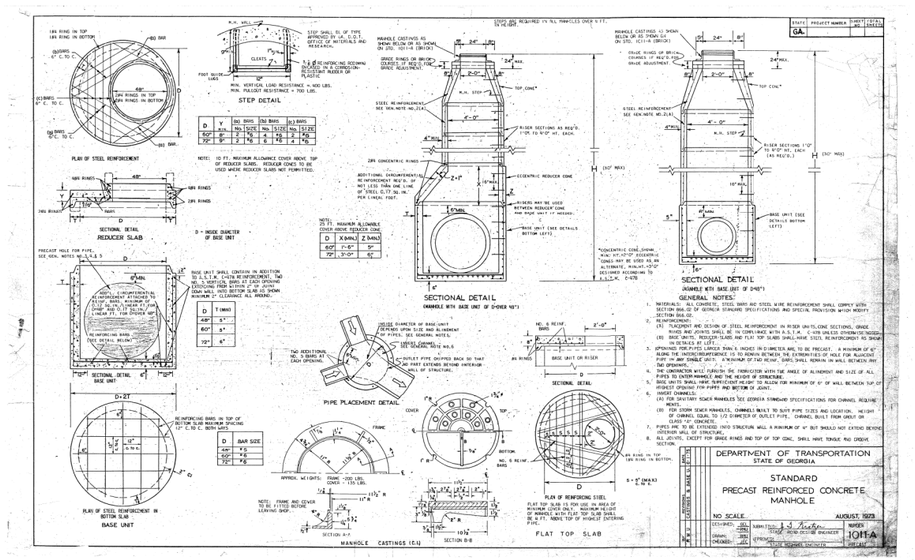
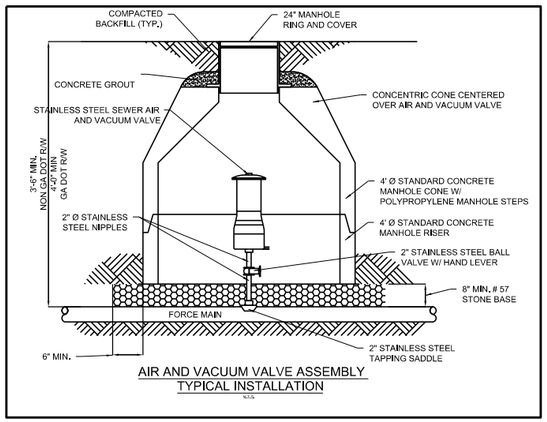
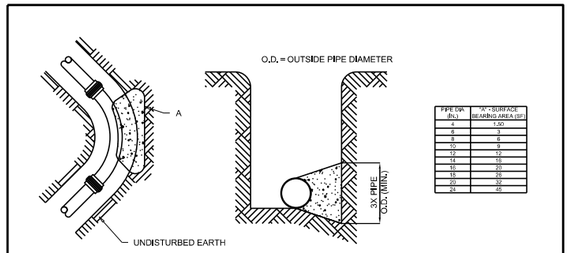


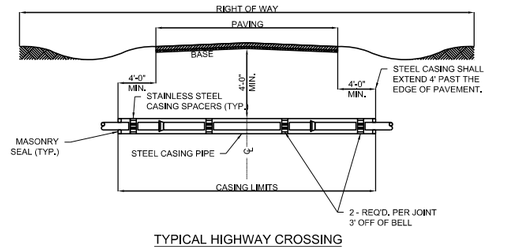


AIR AND VACUUM VALVE ASSEMBLY
TYPICAL INSTALLATION
N.T.S.

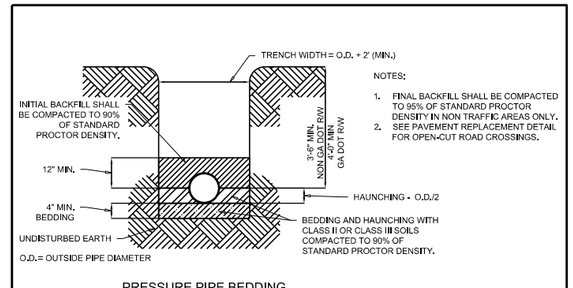


PIPE DIA. (IN.)	"A" - SURFACE BEARING AREA (SF)
4	1.50
6	3
8	6
10	9
12	12
14	15
16	20
18	25
20	30
24	45

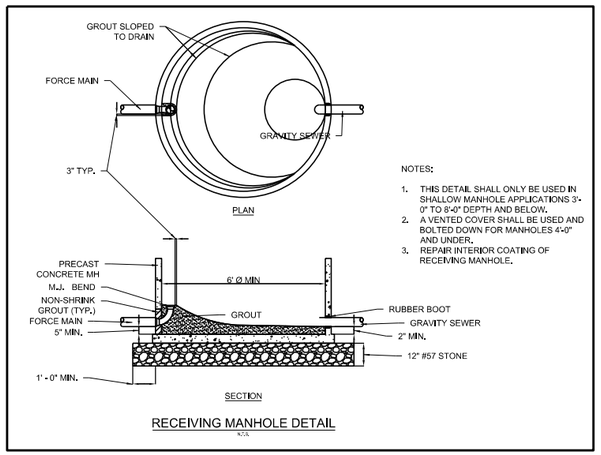
FORCE MAIN THRUST BLOCK
N.T.S.



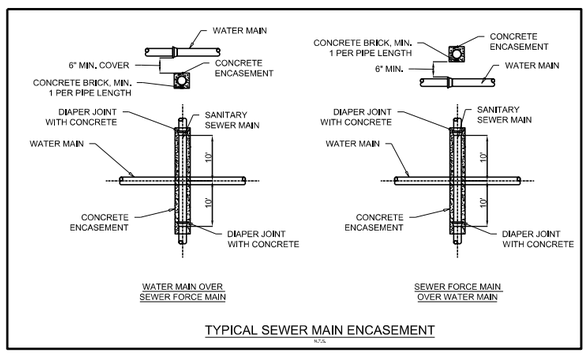
TYPICAL HIGHWAY CROSSING
N.T.S.



PRESSURE PIPE BEDDING
N.T.S.



RECEIVING MANHOLE DETAIL
N.T.S.



TYPICAL SEWER MAIN ENCASEMENT
N.T.S.

TOWN OF TYRONE -GEORGIA- EST. 1911

POND
Architects ■ Engineers ■ Planners

REVISION DATES

SANITARY SEWER FORCE MAIN RELOCATION CONSTRUCTION DETAILS
PALMETTO ROAD AT ARROWOOD / SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44 - 0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLN-CE
11/05/2020

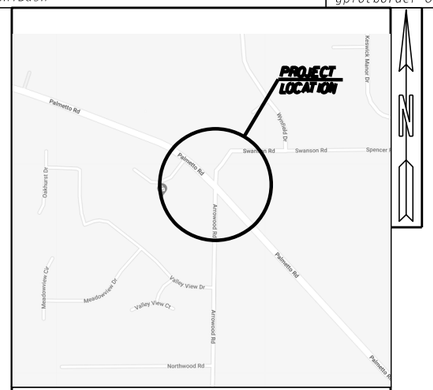
11/12/2024 Sean.Bush	GPLOT-ORD gplotborder-ORD-PO.tbl	1210771_50.dgn CONCOV	PROJECT NUMBER PW-2021-13-04

TOWN OF TYRONE
ENGINEERING AND PUBLIC WORKS

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN

PALMETTO ROAD AT ARROWOOD ROAD/SPENCER LANE ROUNDABOUT

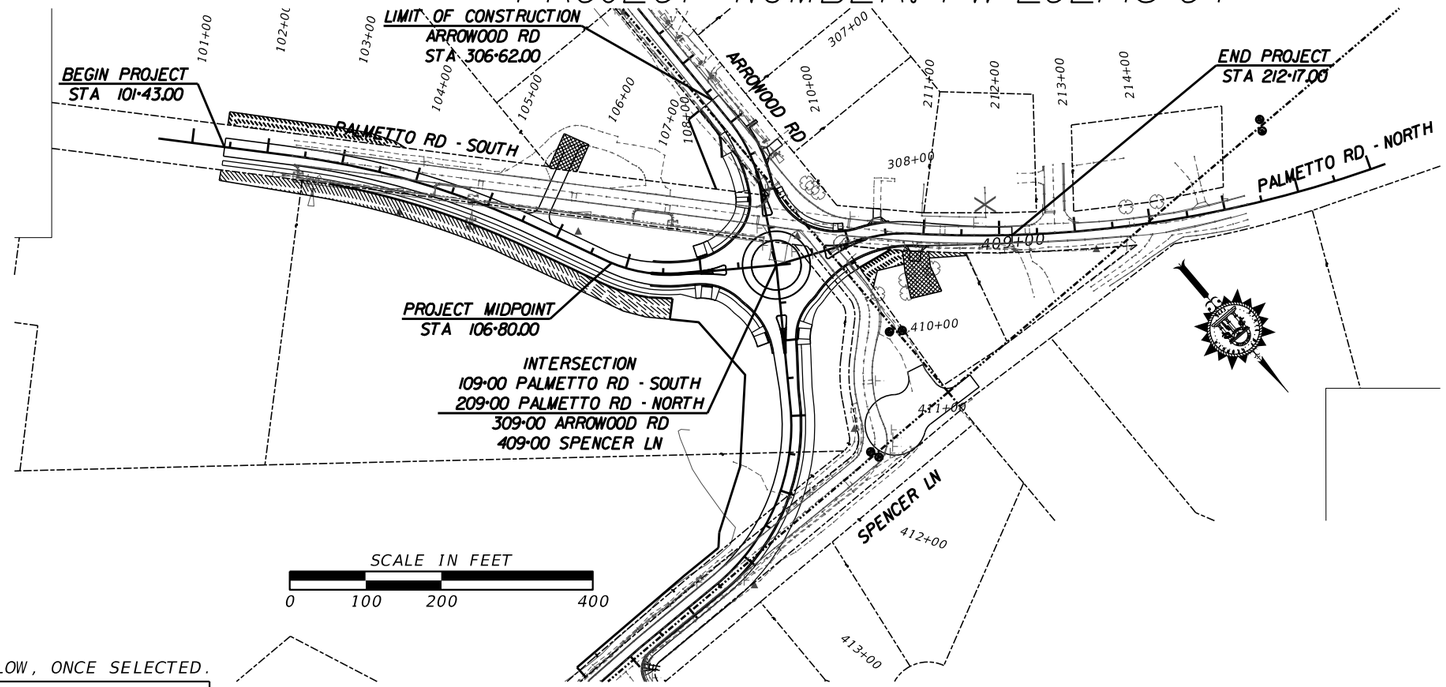
PROJECT NUMBER: PW-2021-13-04



VICINITY MAP - NTS

BEGIN-POINT COORDINATES
Longitude: 84.5943°
Latitude: 33.4844°
MID-POINT COORDINATES
Longitude: 84.5953°
Latitude: 33.4856°
END-POINT COORDINATES
Longitude: 84.5967°
Latitude: 33.4864°

This project has been prepared using the Horizontal Georgia Coordinate System of 1984(NAD1983)/94 west Zone, and the North American Vertical Datum (NAVD) of 1988.



The General Contractor (aka: the Operator, Primary Permitee, or Contractor) shall perform all necessary duties of the "permitee" pursuant to the current NPDES Infrstructure Construction Stormwater General Permit (GAR100002), approved ESPC Plan, and other contract documents. This includes, but is not limited to: NOI/NOT submittal, compliance with reporting requirements, record keeping, water quality inspections and sampling, etc.

OWNER

TOWN OF TYRONE
PUBLIC WORKS
950 SENOIA RD
PHONE: 770-487-4038
EMAIL: INFO@TYRONE.ORG

PRIMARY PERMITTEE

OPERATOR SHALL ACT AS PRIMARY PERMITTEE.
(THIS SECTION SHALL BE COMPLETED BY THE PROJECT'S GENERAL CONTRACTOR.)

NAME: _____
ADDRESS: _____
PHONE: _____
EMAIL: _____

*CONTRACTOR TO FILL IN CONTACT INFO BELOW, ONCE SELECTED.

24 HOUR CONTACT:

Name

Street Address

City. State Zip

Phone Number

Email Address

Contractor shall complete the information in this box.

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GAR100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted, provides for sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my direct supervision."

GEORGIA REGISTERED 11/12/2024 No. PE042056 PROFESSIONAL ENGINEER ZACHARY GREGORY PUCKETT

ZACHARY GREGORY PUCKETT, P.E.
GSWCC LEVEL II CERTIFICATION # 0000033175

POND
3500 Parkway Lane
Suite 500
Peachtree Corners, Ga. 30092
Phone 678-336-7740
Fax 678-336-7744
Web www.pondco.com

LENGTH OF PROJECT	COUNTY No. 113 COUNTY NAME: FAYETTE
	MILES
NET LENGTH OF ROADWAY	0.203
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.203
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.203

PLANS COMPLETED 11-12-2024

REVISIONS

DATE	ENTITY REQUESTING REVISION(S)	DRAWING NUMBER(S)	SIGNATURE	GSWCC LEVEL II CERT.#
- -				
- -				
- -				
- -				
- -				
- -				
- -				

DRAWING No. 50-0001

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: Towaliga, Region 4

BRIER CREEK.REGION 3

Project Name Palmetto Rd at Arrowood Rd RAB **Address:**

Local Issuing Authority: Fayette **Date on Plans:**

Name & email of person filling out checklist: Sean Bush sean.bush@pondco.com

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
51-0001	Yes	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
50-0001	Yes	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
50-0001	Yes	3	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
50-0001	Yes	4	Provide the name, address, email address, and phone number of primary permittee.
53-0001	Yes	5	Note total and disturbed acreages of the project or phase under construction.
50-0001	Yes	6	Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
50-0001	Yes	7	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
50-0001	Yes	8	Descriptions of the nature of construction activity and existing site conditions.
50-0001	Yes	9	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
53-0001	Yes	10	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
50-0001	Yes	11	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 21** of the permit.
50-0001	Yes	12	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 20** of the permit. *
50-0001	Yes	13	Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on **Part IV.D.6.c.(3) page 37** of the permit as applicable. *
51-0003	Yes	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with **Part IV.A.5 page 26** of the permit. *
51-0003	Yes	15	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
	No	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-0002	Yes	17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
51-0002	Yes	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
51-0002	Yes	19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-0002	Yes	20	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
51-0002	Yes	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
51-0002	Yes	22	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment *
51-0002	Yes	23	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
51-0002	Yes	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
51-0002	Yes	25	Provide BMPs for the remediation of all petroleum spills and leaks.
51-0002	Yes	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
51-0002	Yes	27	Description of practices to provide cover for building materials and building products on site. *
51-0002	Yes	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
51-0002	Yes	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-0003	Yes	30	Provide complete requirements of Inspections and record keeping by the primary permittee. *
51-0003	Yes	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
51-0002	Yes	32	Provide complete details for Retention of Records as per Part IV.F. of the permit. *
51-0003	Yes	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
51-0003	Yes	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
55-0001	Yes	35	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
51-0002	Yes	36	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
50-0001	Yes	37	Graphic scale and North arrow.
53-0001	Yes	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
	No	39	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
	No	40	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
	No	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
	No	42	Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
53-0001	Yes	43	Delineation and acreage of contributing drainage basins on the project site.
53-0001	Yes	44	Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
53-0002	Yes	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
53-0002	Yes	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-0002	Yes	47	Soil series for the project site and their delineation.
54-0001	Yes	48	The limits of disturbance for each phase of construction.
51-0002	Yes	49	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permitees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
54-0001	Yes	50	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
52-0001	Yes	51	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-0002	Yes	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Existing Contours	USGS 1": 2000' Topographical Sheets
Proposed Contours	1": 400' Centerline Profile

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2024

TOWN OF TYRONE - GEORGIA - EST. 1911

POND Architects ■ Engineers ■ Planners

REVISION DATES

ESPCP GENERAL NOTES
PALMETTO ROAD AT
ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLN-CE 11/05/2020

ESPCP GENERAL NOTES

The escape of sediment from the project site shall be prevented by the installation of erosion and sediment control measures and practices prior to land-disturbing activities.

Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161-Control of Soil Erosion and Sedimentation of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. Amendments/revisions to the ESPCP which have a significant effect on BMPs with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMPs may be added per Special Provision 161-Control of Soil Erosion and Sedimentation.

CONSTRUCTION SCHEDULE AND SEQUENCE OF MAJOR ACTIVITIES

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted after the project is awarded along with the NOI. A copy of the construction schedule shall be maintained at the project site.

The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP to minimize or eliminate the vehicle tracking of dirt, soils, and sediments off site. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

Activity	Months																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Initial Phase	■	■																
Intermediate Phase			■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Final Phase																	■	■

Initial Phase

Perimeter silt fence and inlet sediment traps on existing structures, as shown in the Erosion Control Plan shall be installed prior to any land disturbing activities. Construction exits shall be installed prior to equipment entering the roadway. Any areas disturbed as part of the installation of silt fence shall be mulched and grassed in accordance with GDOT Standard Specifications, the Erosion Control Plan, and the Project Special Provisions.

Intermediate Phase

As the proposed ditches are graded, install ditch checks and rock filter dams as shown on the Erosion Control Plan. Install all inlet sediment traps as structures are constructed. Mulch and seed all disturbed areas in accordance with the GDOT Standard Specifications, the Erosion Conrtol Plan, and the Project Special Provisions.

Final Phase
Remove all temporary BMPs and install final stabilization of all disturbed areas as well as all final BMPs as shown on the Erosion Control Plan.

SITE STABLIZATION AND VEGETATION PLANTING SCHEDULE

The EPD General NPDES GAR100002 permit states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 7 days of such cessation or as soon as practicable if precluded by adverse weather conditions. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 7 days.

Disturbed areas shall be stabilized with suitable material listed in the current edition of the Department's Standard Specifications (or Special Provisions) Sections 161, 163, 700, or 711 on the basis of when construction activities are expected to resume.

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching rates for this project can be found in Section 700 of the current edition of the Department's Standard Specifications (or Special Provisions) and other applicable contract documents or landscaping plans.

BMP INSTALLATION AND MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 711, and other contract documents for installation and maintenance measures.

PETROLEUM STORAGE,SPILLS AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GAR100002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

DEWATERING AND PUMPING ACTIVITIES

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag, or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR100002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

NONSTORMWATER DISCHARGES

Nonstormwater discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater containing stucco, paint, oils, curing compounds, and other construction materials.

READY MIX CHUTE WASH DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

If the Contractor elects to store building material, building products, construction waste, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials on the site, the Contractor shall provide an appropriate covering to minimize the exposure of those materials or products to precipitation and stormwater to minimize the discharge of pollutants. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of the specific material or product poses little risk to stormwater contamination or is intended for outdoor use.

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with all applicable State and/or local regulations for waste disposal, sanitary sewer and septic systems, and petroleum storage.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Standard Specifications.

POSTCONSTRUCTION BMPs FOR STORMWATER MANAGEMENT

All permanent postconstruction BMPs are shown in the construction plans and in the ESPCP plan. The postconstruction BMPs for this project consist of riprap at pipe outlets for velocity dissipation and outlet stabilization. The postconstruction BMPs will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

SOIL SERIES INFORMATION

The following is a summary of the soils that are expected to be found on the project site:

Map unit SYmbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Percent of AOI
CeB	Cecil Sandy loam, 2 to 6 percent slopes	Slight	Cecil (100%)		86.3%
CeC	Cecil sandy loam, 6 to 10 percent slopes	Moderate	Cecil (100%)	Slope/erodibility (0.50)	9.1%
CfC2	Cecil sandy clay loam, 6 to 10 percent slopes, eroded	Moderate	Cecil (100%)	Slope/erodibility (0.50)	3.9%
PaE	Pacolet sandy loam, 10 to 25 percent slopes	Severe	Pacolet (99%)	Slope/erodibility (0.95)	0.7%

DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

The following is a summary of project outfalls within 1 mile and within the watershed of an identified impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

Outfall ID # and Location (Station and Offset)	Reach Name	Location of the Impaired Stream Segment as Indicated in the 305b/303d List	Criteria Violated (Bio F|Bio M)	Potential Cause (NP|UR)	Category (4a, 4b, or 5)	Numeric waste load allocation (WLA) for sediment*
Outfall 2 STA 415+68.9, 17.4'LY	TRICKUM CREEK	Headwaters to Line Creek	Bio F	NP,UR	4a	93.2
Outfall 3 STA 415+62.4, 20.3'RT	TRICKUM CREEK	Headwaters to Line Creek	Bio F	NP,UR	4a	93.2
The TMDL for Trickum Creek was completed in 2017. The infrastructure construction project WLA for sediment is 93.2 tons/year.						

** If the TMDL Implementation Plan establishes a specific numeric waste load allocation that applies to the project discharge(s) to the Impaired Stream Segment, then the Certified Design Professional must incorporate that allocation into the Erosion, Sedimentation and Pollution Control Plan and implement all necessary measures to meet that allocation. See Appendix I for additional required BMPs for this project.*

RETENTION OF RECORDS

The Operator shall provide all records to the Owner, who will retain all records related to the implementation of this ESPCP in accordance with Part IV.F of the General Permit GAR100002.

SILT FENCE INSTALLATION WITH J HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J-hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

ESPCP GENERAL NOTES
PALMETTO ROAD AT
ARROWOOD ROAD/SPENCER LANE

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SEDIMENT STORAGE

The site has a total disturbed area of 5.38 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

Location	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd^3)	Total Storage Volume Provided (yd^3)	Temporary Sediment Basins		Check Dams (#/yd^3/each)		Inlet Sediment Traps (#/yd^3/each)		Silt Gates (#/yd^3/each)		Silt Fence (#/yd^3/each)	
					Basin #	Total Volume (yd^3)	# of Devices	Total Volume (yd^3)	# of Devices	Total Volume (yd^3)	# of Devices	Total Volume (yd^3)	Length (ft)	Total Volume (yd^3)
Outfall 1	0.89	0.59	59.56	75.60			3	4.50	7	10.50			202	60.60
Outfall 2	2.19	2.07	146.86	188.30			10	14.00	1	1.50			576	172.80
Outfall 3	0.84	0.75	56.28	178.70			11	17.60					537	161.10
Total Sheet Flow	2.62	1.97											1995	598.50

To prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

CHANNEL PROTECTION

All channels shall be stabilized with permanent grassing.

TEMPORARY SEDIMENT BASIN DETAILS:

There are no sediment basins constructed on this project.

SAMPLING LOCATIONS AND GENERAL NOTES

Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.

Note: The Total Site Area is 5.73 acres.

SAMPLING INFORMATION											Representative Sampling Scheme OUTFALL CHARACTERISTICS				
Primary Sampled Feature	Location (Station and Offset)	Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (Outfall or Receiving Water)	Drainage Area for Receiving Water (mi^2)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall Sampling only)	Allowable NTU Increase (Receiving water sampling only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins
1	306+61.8, 20.5'LT	LINE CREEK	All	Outfall	0.0	N/A	Warm	25	N/A	End of Ditch	Road Widening	<1	STEEP	HIGH	3
2	415+68.9, 17.4'LT	TRICKUM CREEK	All	Outfall	0.2	N/A	Warm	25	N/A	End of Pipe	Road Widening	>2	STEEP	HIGH	N/A
3	415+62.4, 20.3'RT	TRICKUM CREEK	All	Outfall	0.2	N/A	Warm	25	N/A	End of Ditch	Road Widening	<1	STEEP	HIGH	1

The primary sampled features specified should be used as the initial sampling locations. An alternate sampled feature may be used if additional sampling is required or to replace a primary sampled feature that is no longer located within the active phase of construction.

RIPRAP OUTLET PROTECTION

Structure #, Outfall ID#, or Station and Offset	Pipe Diameter Do (ft)	Q (ft^3/s)	V (ft/s)	Tailwater Condition (TW<0.5 Do TW>0.5Do)	Width at Drainage Structure W1=3Do (ft)	Apron Length La (ft)	Downstream Width W2=Do+La (ft)	Average Stone Diameter d_{50} (ft)	Apron Thickness D (ft)	Riprap Type (Type 3 or Type 1)	Quantity (yd^2)
A-2	4.3	0.77	TBD	TW<0.5 Do	12.00	8	12.00	0.4	1.5	3	11
B-0	1.5	2.12	7.35	TW<0.5 Do	4.00	25.5	4.00	0.4	1.5	3	11
B-3	1.5	1.82	4.72	TW<0.5 Do	4.00	25.5	4.00	0.4	1.5	3	10
D-5	4.3	0.85	TBD	TW<0.5 Do	12.00	8	12.00	0.4	1.5	3	11
D-0	1.5	2.97	7.67	TW<0.5 Do	3.50	9	5.75	0.4	1.5	3	5

*BASED ON DISCHARGE AND PIPE DIAMETER, NO MIN RIP RAP REQUIRED

STATE-WATER BUFFER IMPACTS

State-water buffers, as defined by O.C.G.A. 12-7-1, are not impacted by this project.

Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

Alternative BMPs will not be used on this project.

1. Payment for additional BMPs, as shown on sheet 51-0004, shall be included in pay Item 210-0100 Grading Complete. This includes the following:
   A. Mulch Filter Berms
   B. Soil Testing
      In the event additional quantities are needed, payment shall be included in the associated pay item (i.e. nitrogen, lime, etc).
2. Contractor shall not use any coagulants or floculants to stabilize disturbed areas.
3. General contractor shall be the 24-hour contact shown on 51-0004 - Note D.

The primary permittee must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days of installation over the entire infrastructure project. Alternatively, for linear infrastructure projects, the permittee must retain either of these personnel to inspect the initial sediment storage requirements and perimeter control BMPs for the initial segment, as defined by Part IV.A.5. of the current GAR100002 Permit, within 7 days of installation and all sediment basins within the entire linear infrastructure project within 7 days of installation. The inspecting design professional shall report the results to the primary permittee within 7 days, and the permittee must correct all deficiencies within 2 business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required.

All other inspections shall be documented on the appropriate Department inspection forms. See Standard Specification (or Special Provision) 167 and other contract documents for inspection and reporting requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Whenever a BMP has failed or is deficient beyond routine maintenance and has resulted in sediment deposition into waters of the State, the Contractor shall take reasonable steps to address the condition, including cleaning up any contaminated surfaces so the material will not discharge in subsequent storm events. When the repair does not require a new or replacement BMP or significant repair, the BMP failure or deficiency must be corrected by the close of the next business day from the time of discovery. A repair requiring a new or replacement BMP or significant repair must be operational by no later than 7 days from the time of discovery. If the repair time within 7 days is infeasible, the Contractor and the Primary Permittee shall schedule the BMP repair to be operational as soon as practical after the 7 day time frame.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

See Special Provision 167 and other contract documents for the inspecting and sampling procedures. Sampling locations are provided in the Sampling Location table herein.

TOWN OF TYRONE - GEORGIA - EST. 1911

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REVISION DATES

ESPCP GENERAL NOTES
PALMETTO ROAD AT
ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		51-0003
VERIFIED:		DATE:		

APPENDIX 1
THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

The four items chosen must be appropriate for the site conditions.

APPENDIX 1
THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.
The four items chosen must be appropriate for the site conditions.

Plan Page #	Included Y/N		
		a.	During construction activities, double the width of the 25-foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50-foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
		b.	Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
		c.	Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
51-0004	Y	d.	A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.
51-0002	Y	e.	Use tackifiers and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III. D.1. of the current NPDES Permits.
		f.	Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24-hour period, recognizing the exceptions specified in **Part IV.D.6.d.** of the current NPDES Permits.
		g.	Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
		h.	Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.
		i.	Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.
		j.	Use "Dirt II" techniques available on the EPD website to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan. (https://epd.georgia.gov/erosion-and-sedimentation)
		k.	Conduct soil tests representative of conditions at the time of planting to identify and to implement site-specific fertilizer needs and/or add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
54-0001	Y	l.	Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
		m.	Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25-year, 24-hour rainfall event.
		n.	Use flocculants or coagulants under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
		o.	Install sod for a minimum 20-foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.
51-0002	Y	p.	Conduct soil tests to identify and to implement site-specific fertilizer needs.
		q.	Certified personnel for primary permittees shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with **Part IV.D.4.a.(3)(a) – (c)**; secondary permittees, **Part IV.D.4.b.(3)(a) – (c)**; and tertiary permittees **Part IV.D.4.c.(3)(a) – (c)** *
		r.	Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
		s.	Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at *www.gaswcc.georgia.gov*)
		t.	Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the Plan.
		u.	Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with **Part IV.A.5** of the permit. *The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.*
		v.	Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual.

Effective January 1, 2024

* This requirement is different for infrastructure projects:
Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) – (c) of the permit.

ESPCP SIGN

The large sign shall be in the format shown in Special Provision 153. Fabricate and install the sign according to Section 636, Section 910, Section 911, Section 912, and Section 913. The cost of the sign installation, maintenance, and removal shall be included in pay item 161-1000. It shall be posted on site by the actual start of construction and remain on site until the end of construction. The project plans must be available on the provided website until a NOT has been submitted.

The sign shall be posted parallel to a road, preferably facing the driveway to the field office trailer. The location of the sign shall be such that it is visible and readable from a road. The sign must identify the following: (1) construction site, (2) permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submitted NOI. For "PROJECT #" enter full project Id number. For "Project Engineer" and "Telephone" enter Construction Project Manager and their telephone number.

The permittee-hosted website is: https://www.tyronega.gov/projects

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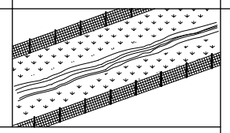
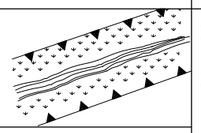
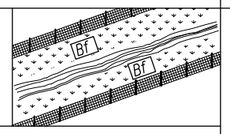
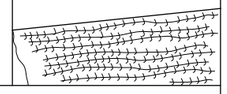
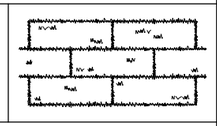
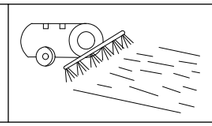
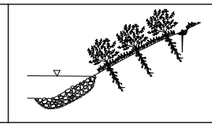
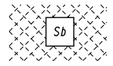
REVISION DATES

ESPCP GENERAL NOTES
PALMETTO ROAD AT ARROWOOD/SPENCER

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		51-0004
VERIFIED:		DATE:		

GPLN-CE
11/05/2020

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE  ORANGE BARRIER FENCE	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE  ESA-25'(OR 50')STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL Bf	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL Ds1	
Ds2	TEMPORARY GRASSING SECTION 163, 700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL Ds2	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL Ds3	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		PATTERN 	
Fl-Co	FLOCCULANTS COAGULANTS SECTION 163, 700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
		SYMBOL Fl-Co POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN 	

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

REVISION DATES		
3/2/2017		

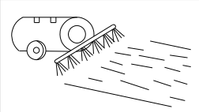
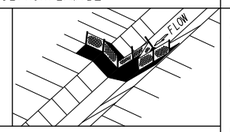
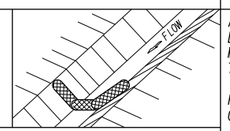
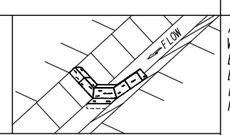
EROSION CONTROL LEGEND

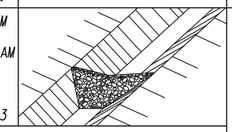
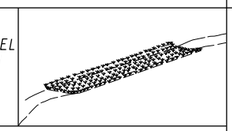
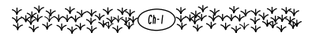
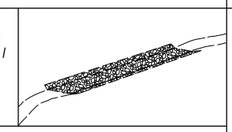
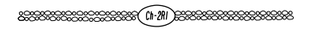
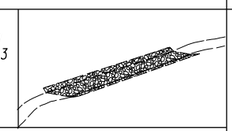
UNIFORM CODE SHEET

SHEET 1 OF 7

NO SCALE

CHECKED:	O. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716	 PATTERN 	SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
Tac	TACKIFIERS SECTION 163, 700, 895	 SYMBOL Tac POLYACRYLAMIDE	TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171	 SYMBOL Cd-F	A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163	 SYMBOL Cd-Fs	A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163	 SYMBOL Cd-Hb	A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603	 SYMBOL Cd-S	STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Ch-I	VEGETATED CHANNEL STABILIZATION SECTION 700	 LINE CODE 	A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603	 LINE CODE 	THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603	 LINE CODE 	THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

REVISION DATES		
3/2/2017		
11/28/2018		

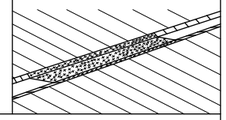
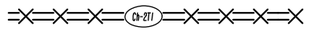
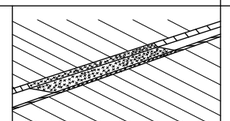
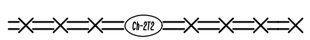
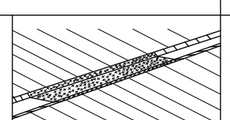
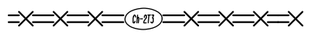
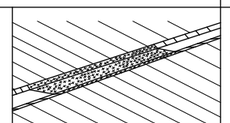
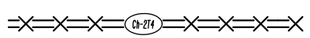
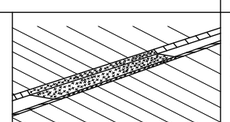
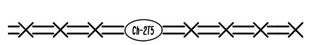
EROSION CONTROL LEGEND

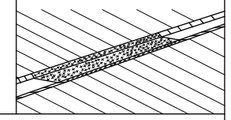
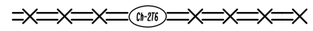
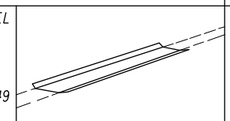
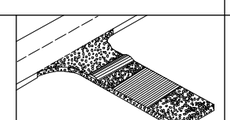
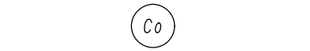
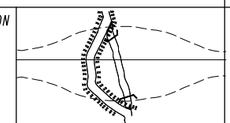
UNIFORM CODE SHEET

SHEET 2 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

7/31/2015 GPLN

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441	 LINE CODE 	CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >/= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800	 SYMBOL 	A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, i.e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163	 LINE CODE 	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sdl-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

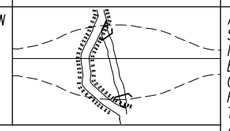
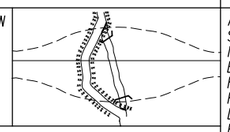
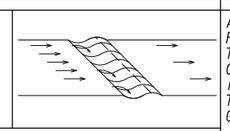
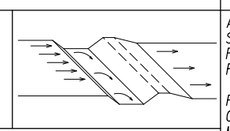
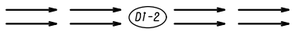
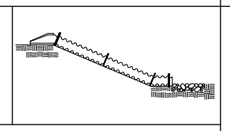
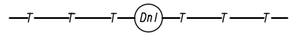
REVISION DATES
3/2/2017

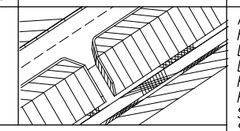
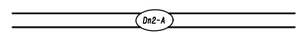
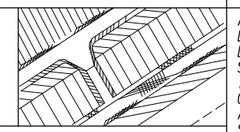
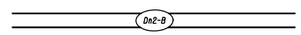
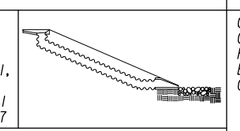
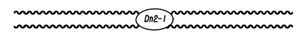
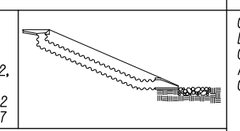
EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 3 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163	 LINE CODE 	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sdl-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163	 LINE CODE 	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sdl-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dl-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205	 LINE CODE 	A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS "Dnl"OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
Dl-2	DIVERSION CHANNEL SECTION 205	 LINE CODE 	A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dnl	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163	 LINE CODE 	A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'. THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441	 LINE CODE 	A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441	 LINE CODE 	A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577	 LINE CODE 	CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577	 LINE CODE 	CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES
3/2/2017

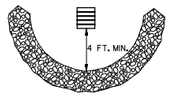
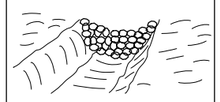
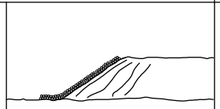
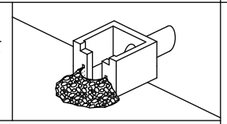
EROSION CONTROL LEGEND

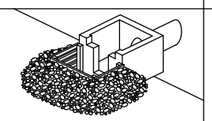
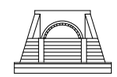
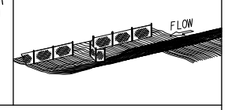
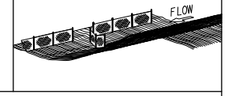
UNIFORM CODE SHEET

SHEET 4 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0004

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163	 SYMBOL: Fr	A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR ADDITIONAL INFORMATION ON USAGE.
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603	 SYMBOL: Rd	ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603	 LINE CODE: Rd-B	STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
Rp	RIP-RAP SECTION 603	 PATTERN: Rp	RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-I SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163	 SYMBOL: Rt-P	A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163	 SYMBOL: Rt-B	A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5" - 1.0" SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.
Rt-Sg1 Rt-Sg2 Rt-Sg3	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163	 SYMBOL: Rt-Sg1 Rt-Sg2 Rt-Sg3	A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1=TYPE 1: USED ON BOX CULVERTS Rt-Sg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
Sdi-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171	 LINE CODE: —A—A—A—Sdi-NS—A—A—A—	SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
Sdi-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171	 LINE CODE: —C—C—C—Sdi-S—C—C—C—	SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

GDOT

NO SCALE

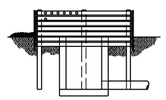
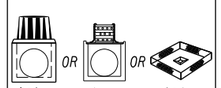
REVISION DATES		
3/2/2017		

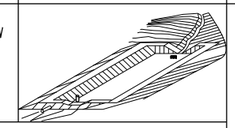
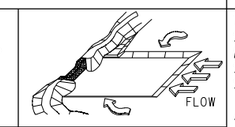
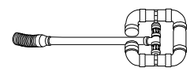
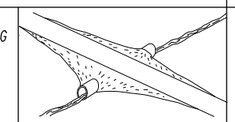
EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 5 OF 7

CHECKED:	O. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE * * * (Sd1-BB) * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL Sd2-B		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL Sd2-Bg		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL Sd2-F		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL Sd2-G		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd3		
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd4-C		
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	SYMBOL Sk		
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
	SYMBOL Sr		

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

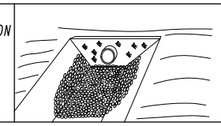
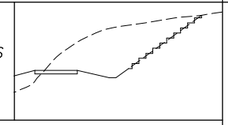
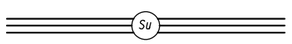
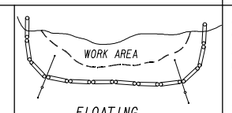
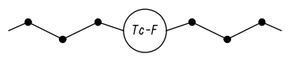
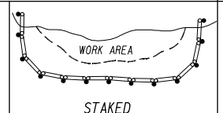
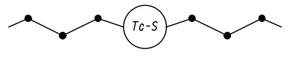
REVISION DATES
3/2/2017
11/28/2018

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 6 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0006

7/31/2015 GPLN

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332	 SYMBOL St	A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603	 PATTERN FLAT AREA St-Rp OR St-Rp WELL-DEFINED CHANNEL	RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-I RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 </= 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 </= 0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205	 LINE CODE 	PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 FLOATING LINE CODE 	A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 STAKED LINE CODE 	A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 7 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0007
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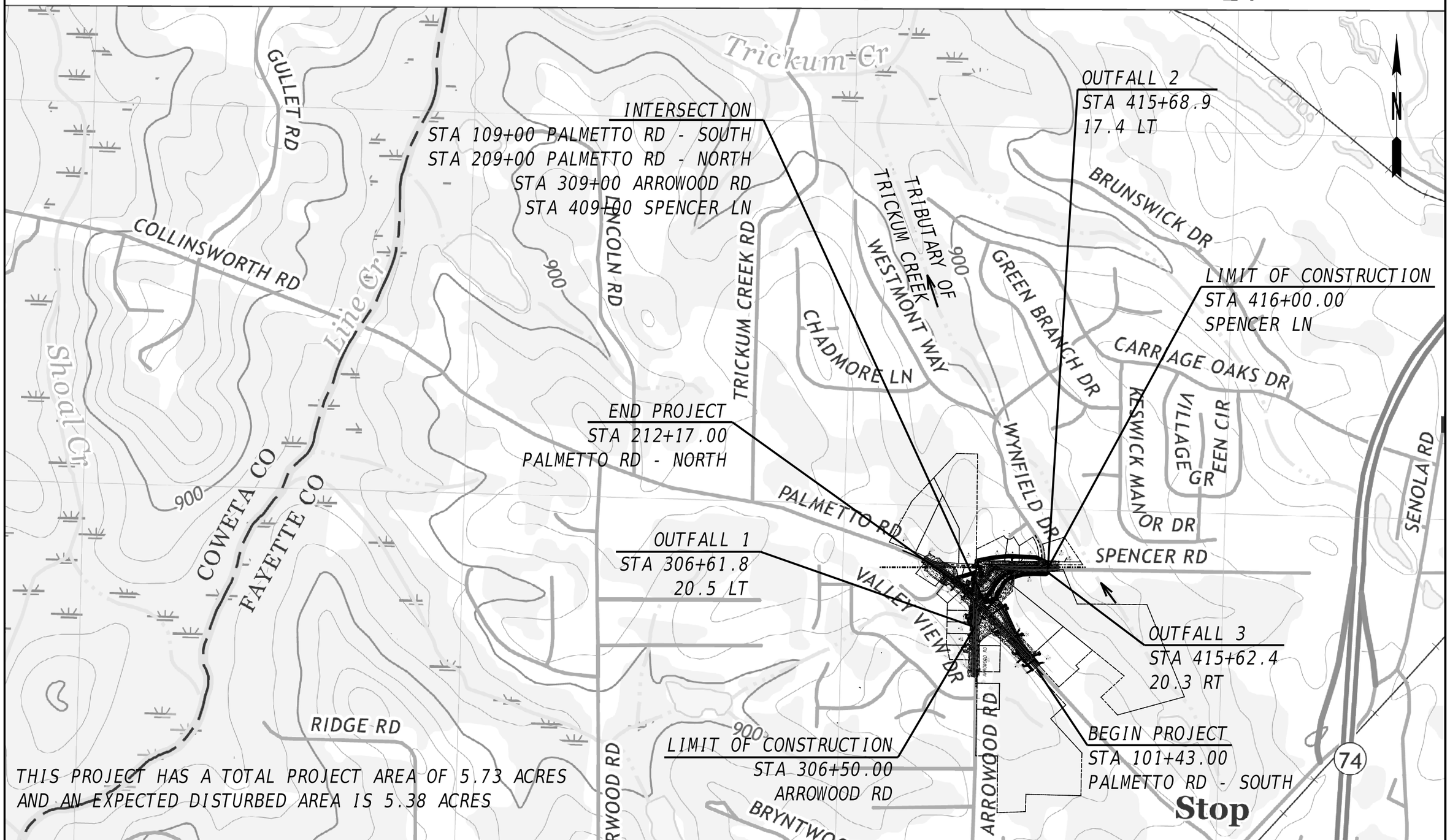

THIS PROJECT HAS A TOTAL PROJECT AREA OF 5.73 ACRES
AND AN EXPECTED DISTURBED AREA IS 5.38 ACRES

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

POND
Architects ■ Engineers ■ Planners

SCALE IN FEET
0 400 800 1600

REVISION DATES

EROSION CONTROL DRAINAGE AREA MAP
PALMETTO ROAD AT
ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		53-0001
VERIFIED:		DATE:		

GPLN-CE
11/05/2020

Total Project Area = 5.73 acres

Total Disturbed Area = 5.38 acres (incl 1.97 acres sheet flow)

BASIN ID	OUTFALL STATION	OUTFALL OFFSET	BASIN AREA (AC)	DIST AREA (AC)	RUNOFF COEFF. (C) PRE/POST	Pre Volume Q	Post Volume Q		Pre Volume Q	Post Volume Q	
						Q (50) cfs	Q (50) cfs	V (50) ft/s	Q (100) cfs	Q (100) cfs	V (100) ft/s
1	306+61.8	20.5'LT	0.890	0.59	0.23/0.51	1.83	2.36	7.57	2.03	2.59	7.79
2	415+68.9	17.4'LT	2.19	2.07	0.62/0.41	2.76	4.85	8.77	3.07	5.42	9.05
3	415+62.4	20.3'RT	0.67	0.67	0.53/0.64	3.50	3.52	7.86	3.9	4.01	8.09

INTERSECTION
STA 109+00 PALMETTO RD - SOUTH
STA 209+00 PALMETTO RD - NORTH
STA 309+00 ARROWOOD RD
STA 409+00 SPENCER LN

PALMETTO RD

PALMETTO RD - NORTH

END PROJECT
STA 212+17.00
PALMETTO RD - NORTH

VALLEY VIEW DR

OUTFALL 2
STA 415+68.9
17.4 LT

SPENCER LN

OUTFALL 3
STA 415+62.4
20.3 RT

LIMIT OF CONSTRUCTION
STA 416+00.00
SPENCER LN

OUTFALL 1
STA 306+61.8
20.5 LT

ARROWOOD RD

PALMETTO RD - SOUTH

LIMIT OF CONSTRUCTION
STA 306+50.00
ARROWOOD RD

BEGIN PROJECT
STA 101+43.00
PALMETTO RD - SOUTH

N

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 100 200 400

REVISION DATES

EROSION CONTROL DRAINAGE AREA MAP
PALMETTO ROAD AT
ARROWOOD ROAD/SPENCER LANE

CHECKED: DATE:
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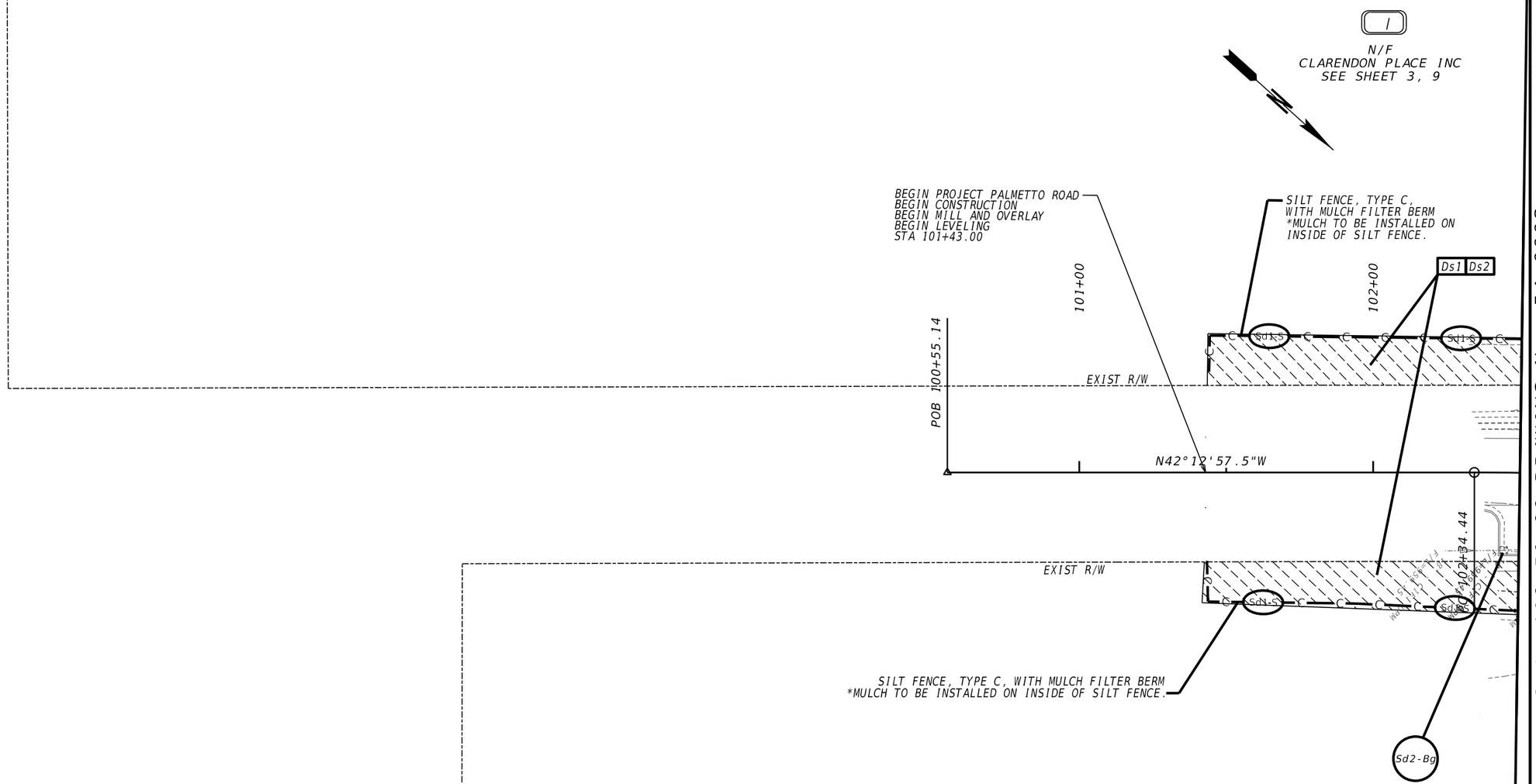
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 53-0002

GPLN-CE
11/05/2020



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - INITIAL PHASE
PALMETTO ROAD AT
ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
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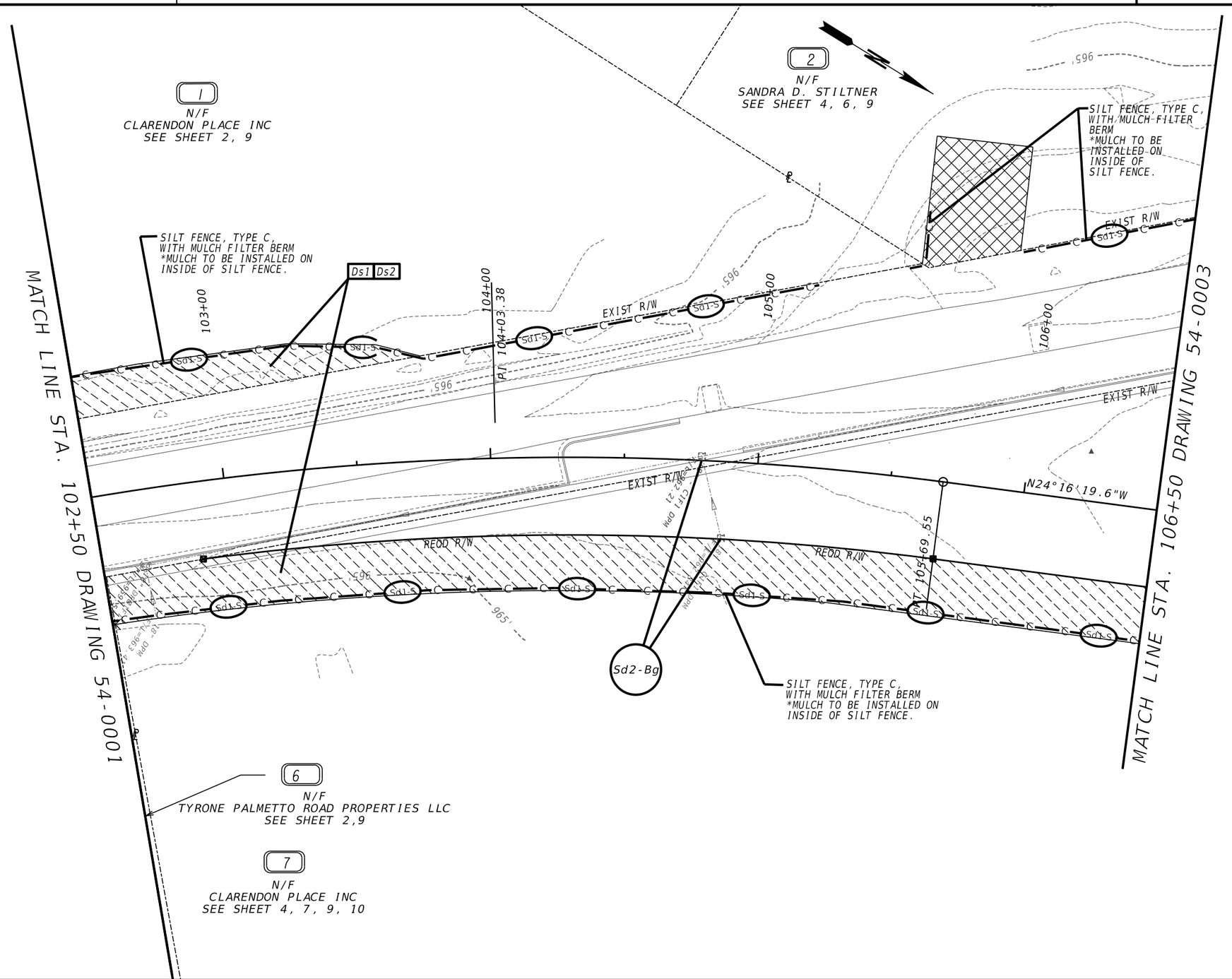
CORRECTED:		DATE:		54-0001
VERIFIED:		DATE:		

GPLN-CE
11/05/2020



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - INITIAL PHASE
PALMETTO ROAD AT ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-0002
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GPLN-CE
11/05/2020

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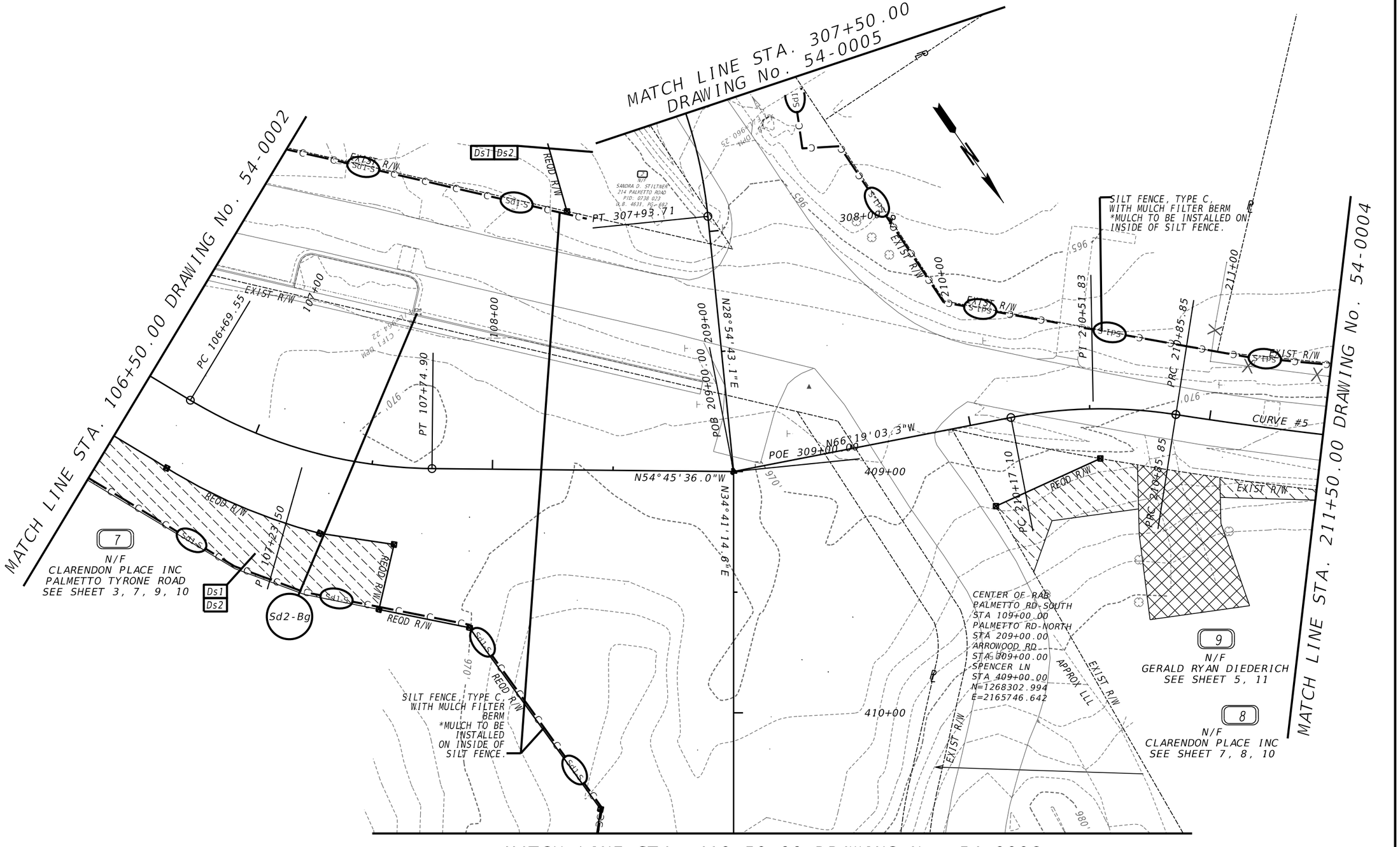

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - INITIAL PHASE
PALMETTO ROAD AT ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-0003
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VERIFIED:		DATE:		

GPLN-CE
11/05/2020

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
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TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - INITIAL PHASE
PALMETTO ROAD AT ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
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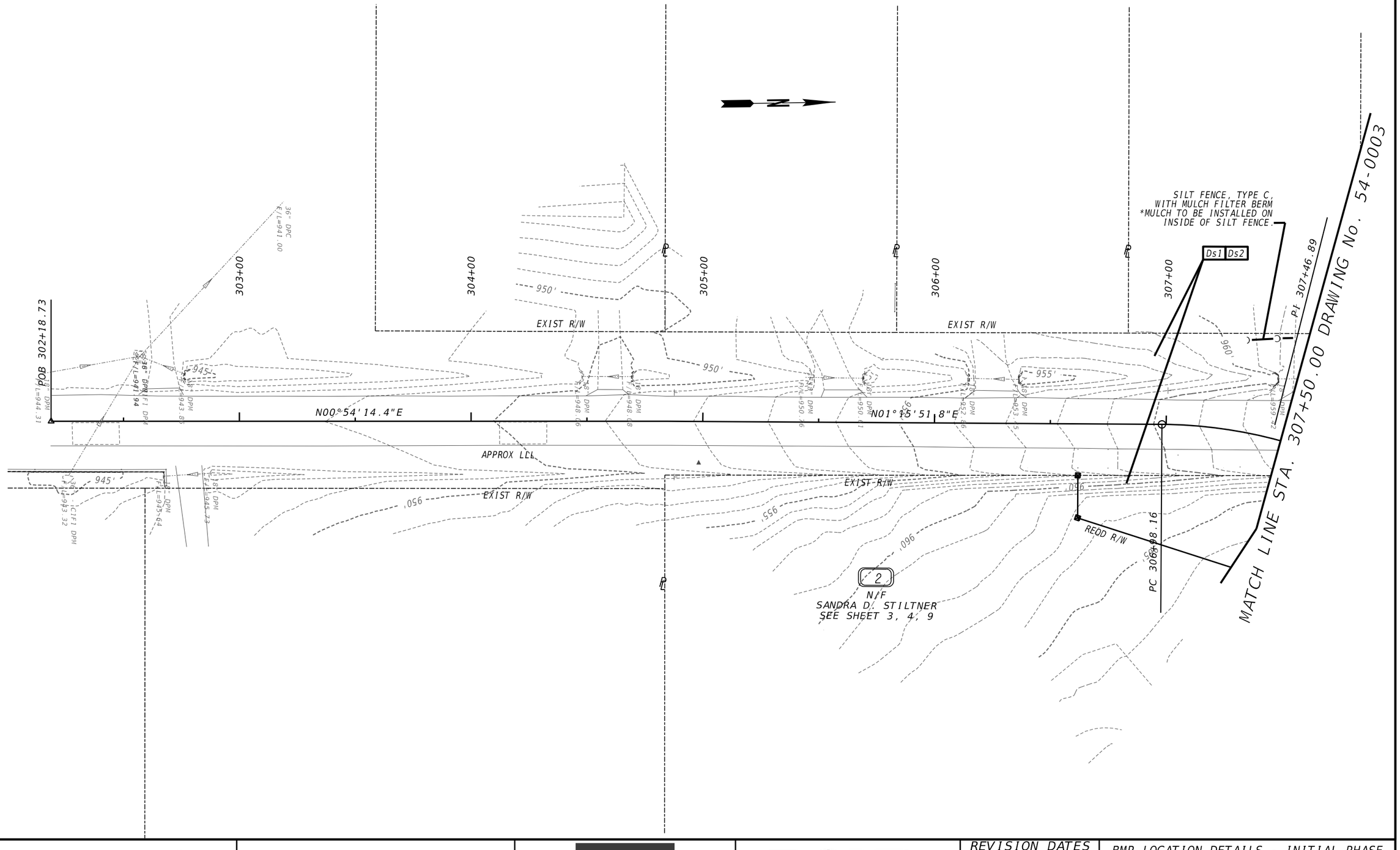
GPLN-CE
11/05/2020



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

POND
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SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - INITIAL PHASE
PALMETTO ROAD AT
ARROWOOD ROAD/SPENCER LANE

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BACKCHECKED:		DATE:		54-0005
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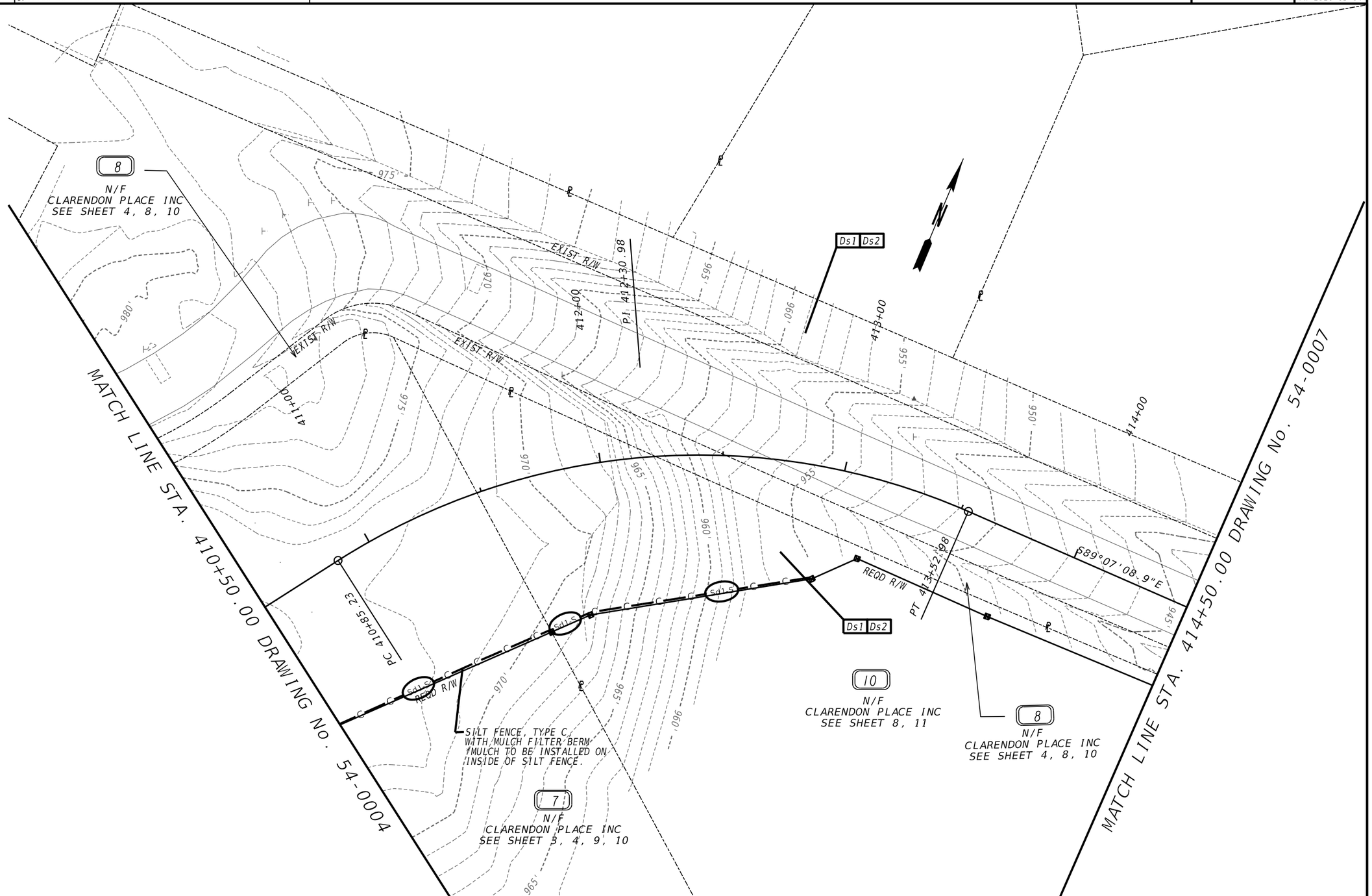
VERIFIED:		DATE:		

GPLN-CE
11/05/2020



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

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SCALE IN FEET
0 20 40 80

REVISION DATES		

BMP LOCATION DETAILS - INITIAL PHASE
PALMETTO ROAD AT ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		54-0006
VERIFIED:		DATE:		

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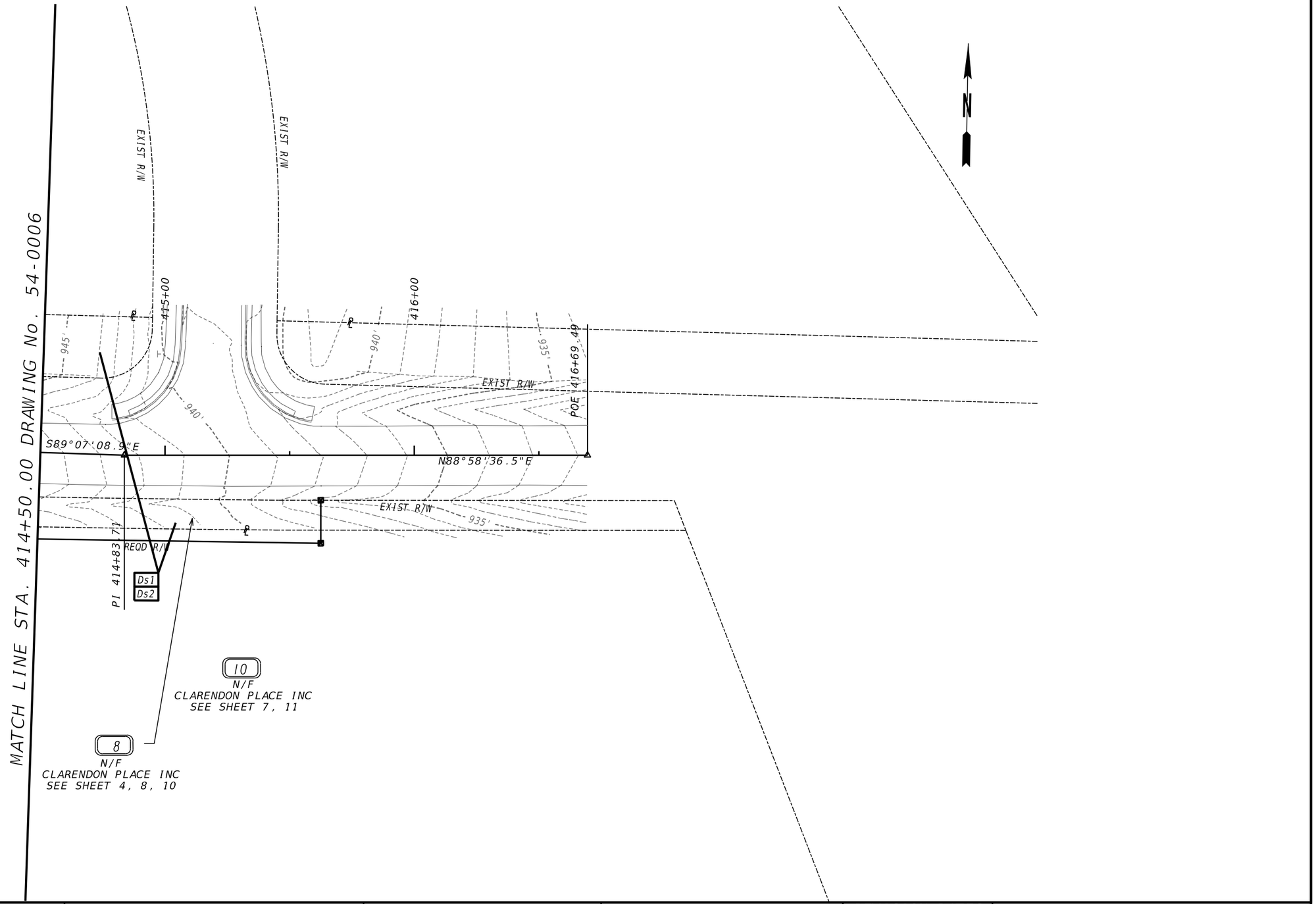
11/05/2020



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REVISION DATES

BMP LOCATION DETAILS - INITIAL PHASE
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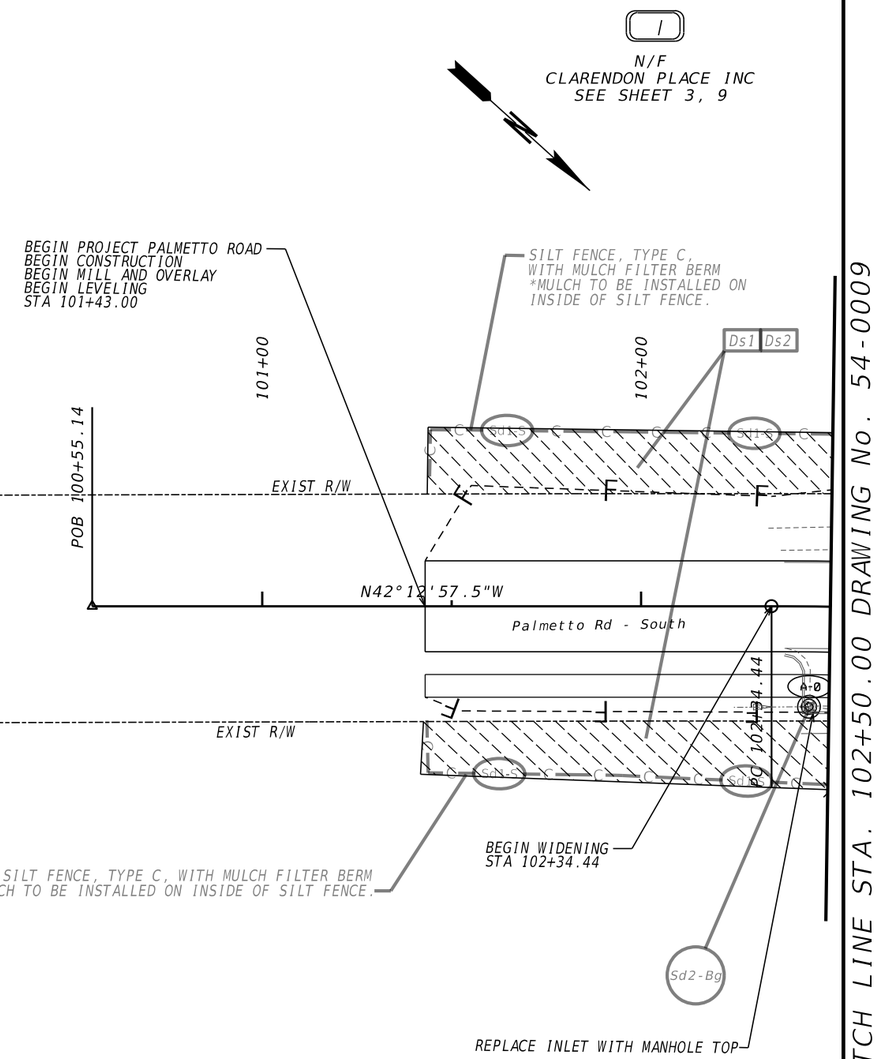
GPLN-CE
11/05/2020



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REVISION DATES		

BMP LOCATION DETAILS - INTERMEDIATE PHASE
PALMETTO ROAD AT ARROWOOD ROAD/SPENCER LANE

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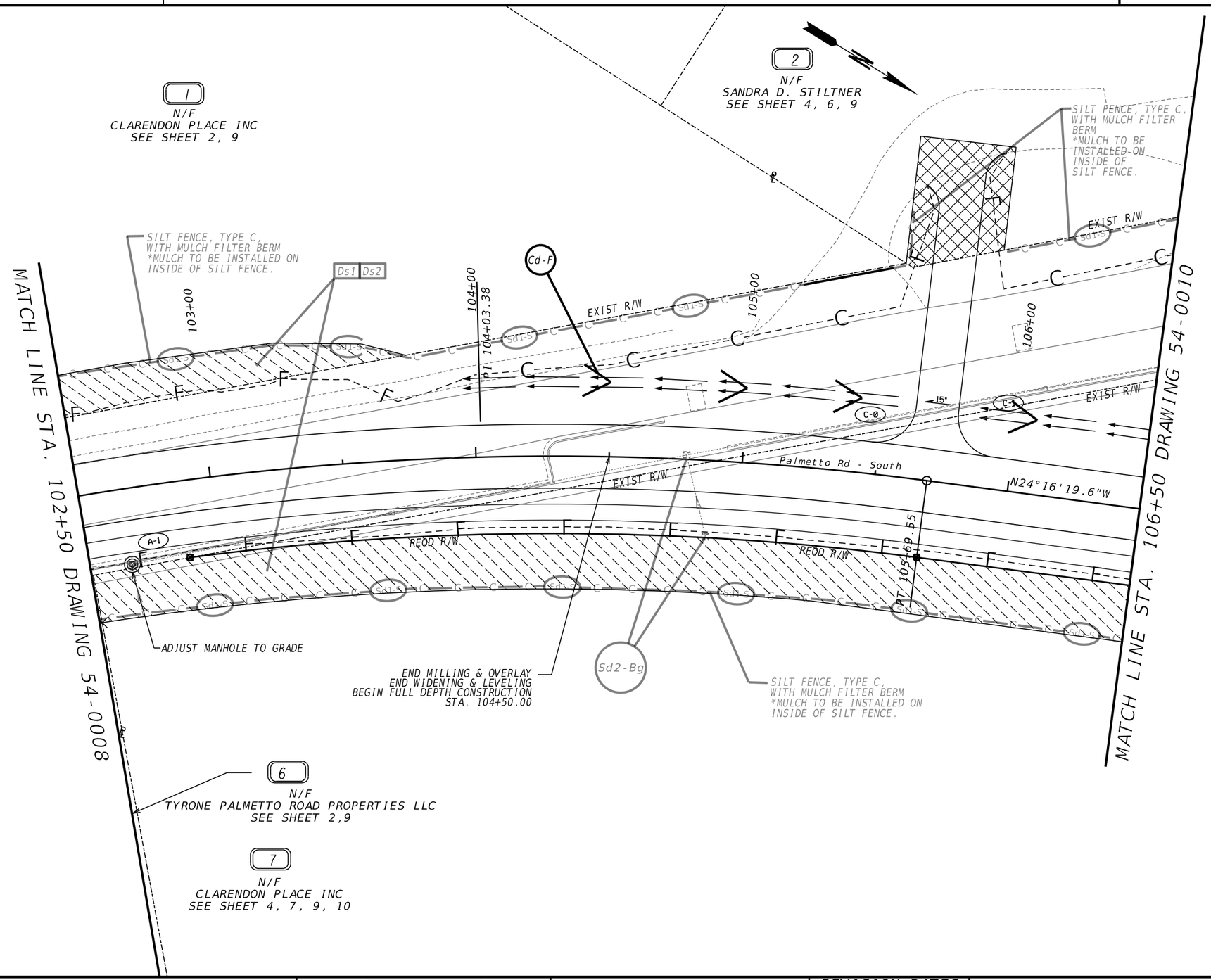
GPLN-CE
11/05/2020



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REVISION DATES

BMP LOCATION DETAILS - INTERMEDIATE PHASE
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BACKCHECKED:		DATE:		54-0009
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GPLN-CE 11/05/2020

MATCH LINE STA. 106+50.00 DRAWING No. 54-0009

MATCH LINE STA. 307+50.00 DRAWING No. 54-0012

MATCH LINE STA. 211+50.00 DRAWING No. 54-0011

MATCH LINE STA. 410+50.00 DRAWING No. 54-0013

EXIST R/W

REQD R/W

PT 307+93.71

GRANITE COBBLESTONE TRUCK APRON
SEE SHEET 29-0010 FOR DETAILS
BID ALTERNATE #2 - 10" CONCRETE MEDIAN

LANDSCAPED/HARDSCAPED AREA (TYP) SEE 29 SERIES LANDSCAPING PLANS FOR ADDITIONAL DETAILS

PC 106+69.55

PT 107+74.90

Palmetto Rd - South

Arrowood Rd

N28°54'43.1"E

POC 209+00.00

POE 309+00.00

N54°45'36.0"W

N35°14'24.0"E

83°40'19"

84°46'14"

90°33'43"

101°0'18"

N66°19'05.3"W

409+00

Palmetto Rd - North

RIPRAP 18" TP3 10 SY

SEE 38 SERIES FOR SPLITTER ISLAND DETAILS, TYP.

308+00

210+00

211+00

SILT FENCE, TYPE C, WITH MULCH FILTER BERM
*MULCH TO BE INSTALLED ON INSIDE OF SILT FENCE.

END FULL DEPTH CONSTRUCTION
BEGIN MILL AND OVERLAY
BEGIN LEVELING
STA 211+10.00

PT 210+51.83

PRC 210+85.85

CURVE #5

FLUME INLET SEE 38-0002

RIPRAP 18" TP3 11 SY

SILT FENCE, TYPE C, WITH MULCH FILTER BERM
*MULCH TO BE INSTALLED ON INSIDE OF SILT FENCE.

7
N/F
CLARENDON PLACE INC
PALMETTO TYRONE ROAD
SEE SHEET 3, 7, 9, 10

9
N/F
GERALD RYAN DIEDERICH
SEE SHEET 5, 11

8
N/F
CLARENDON PLACE INC
SEE SHEET 7, 8, 10

CENTER OF R/B
PALMETTO RD-SOUTH
STA 109+00.00
PALMETTO RD-NORTH
STA 209+00.00
ARROWOOD RD
STA 309+00.00
SPENCER LN
STA 409+00.00
N=1268302.994
E=2165746.642

3' GRANITE COBBLESTONE PAVER (TYP.)

410+00

SOD (TYP)
SEE 29-SERIES LANDSCAPING PLANS FOR ADDITIONAL DETAILS
BID ALTERNATE #1 - HYDROSEED

GRANITE COBBLESTONE (TYP)/SEE SHEET 29-010 29-0010 FOR DETAILS
BID ALTERNATE #3 - 6" CONCRETE MEDIAN

Spencer Ln

Sd2-F Sd2-Bg Cd-F Ds1 Ds2 Sd1-S A-2 B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 18" 1DS

PROPERTY AND EXISTING R/W LINE
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REVISION DATES

BMP LOCATION DETAILS - INTERMEDIATE PHASE
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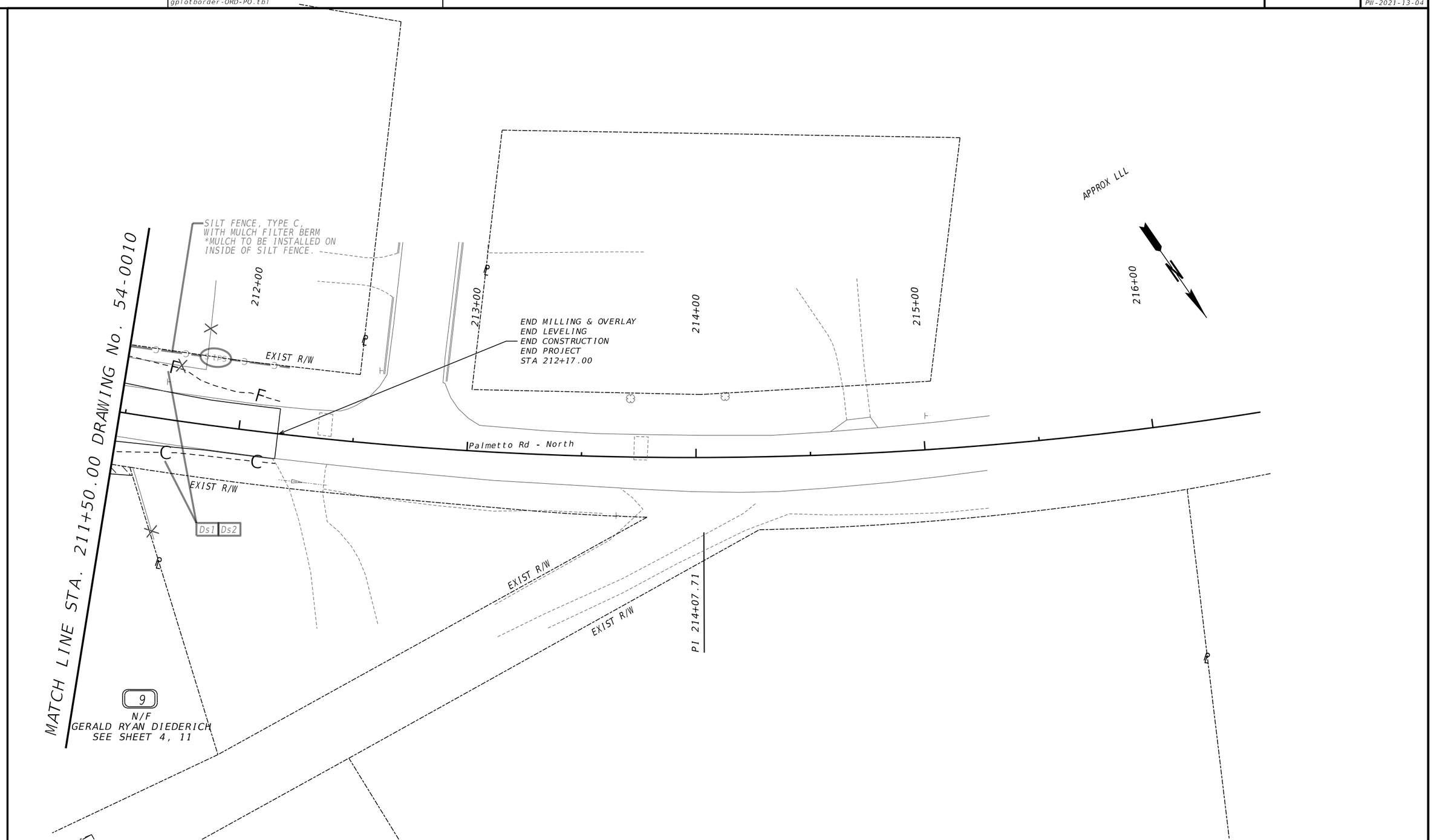

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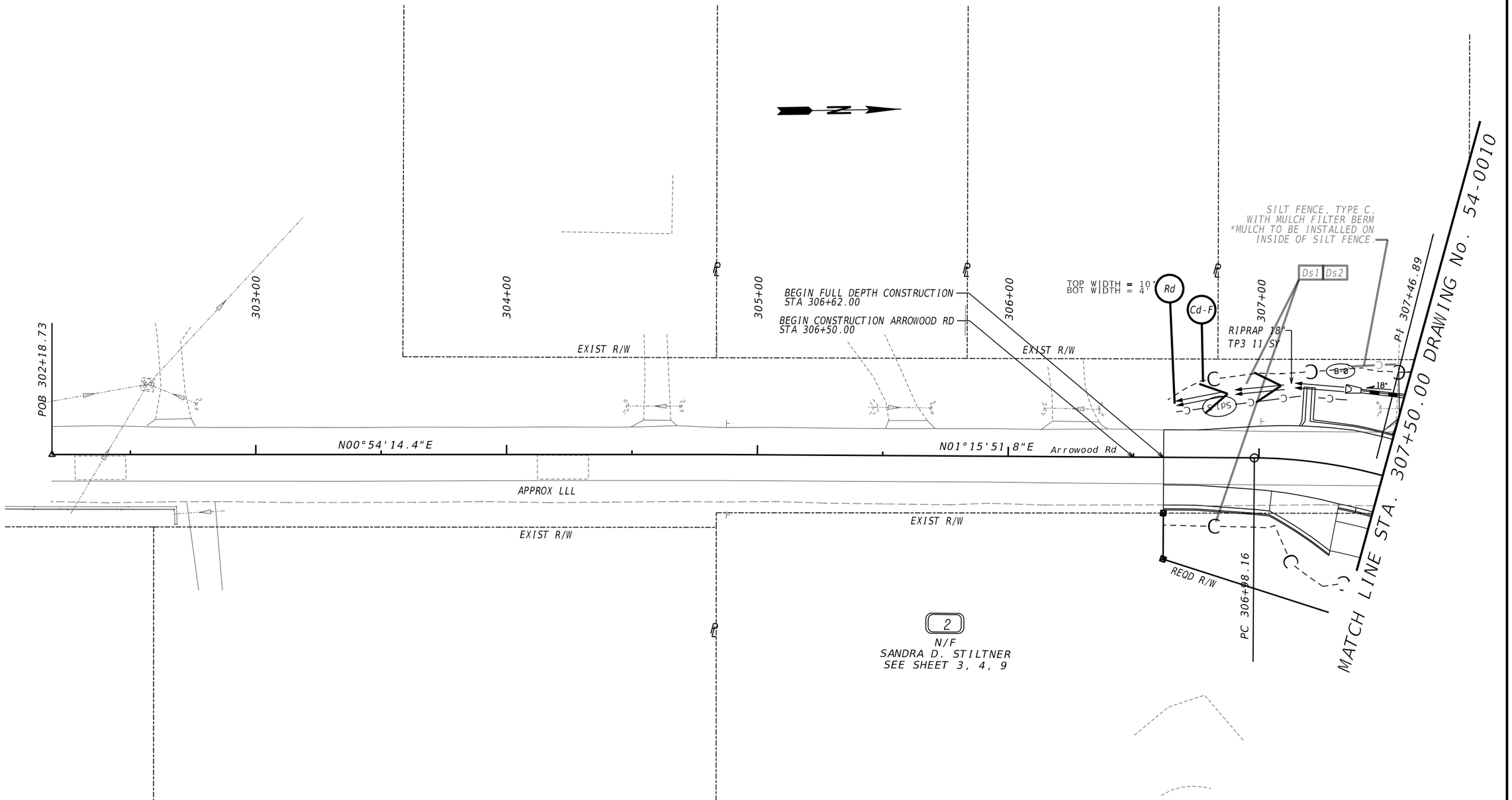

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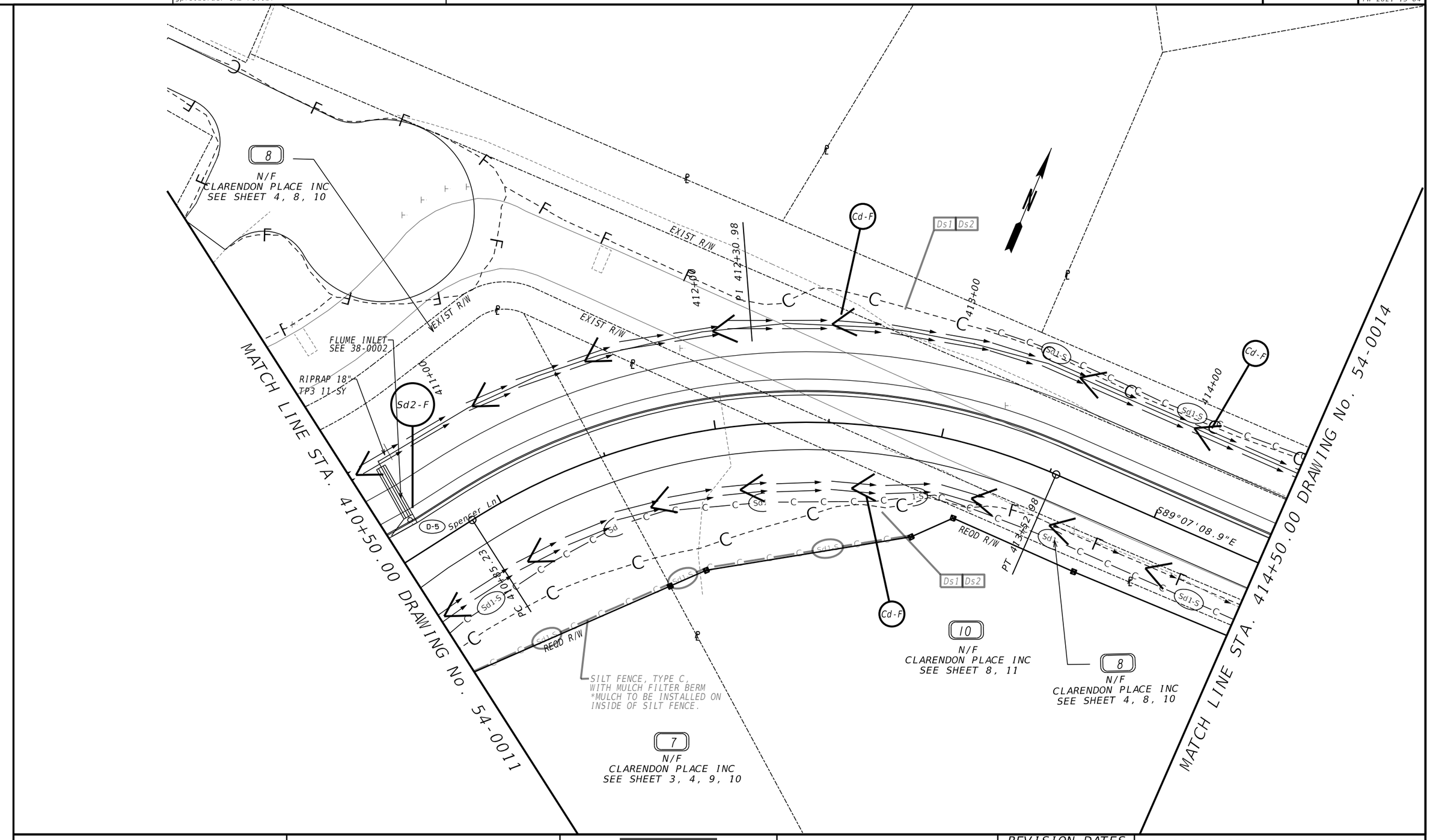

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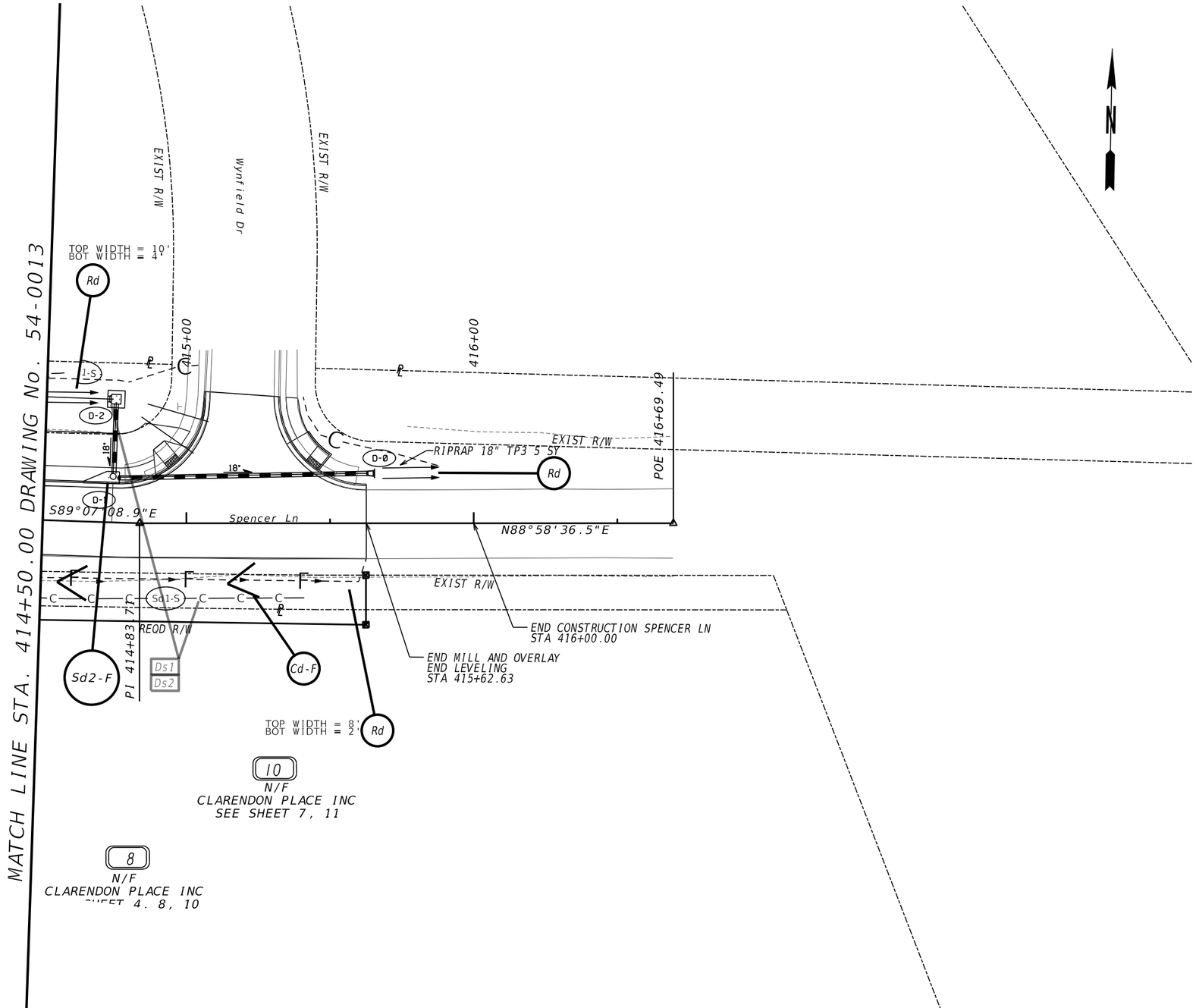

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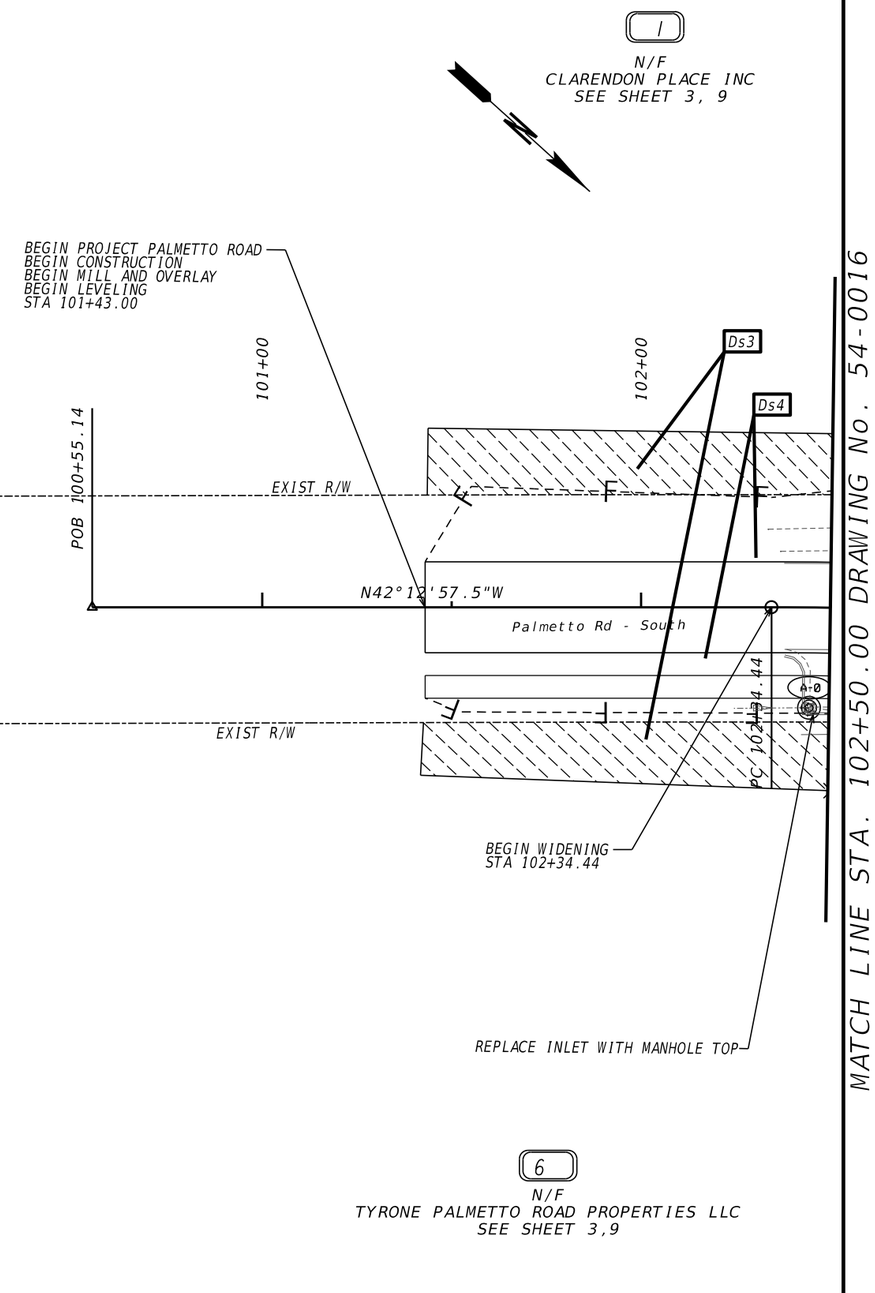
GPLN-CE
11/05/2020



MATCH LINE STA. 102+50.00 DRAWING No. 54-0016

PROPERTY AND EXISTING R/W LINE
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TOWN OF TYRONE - GEORGIA - EST. 1911

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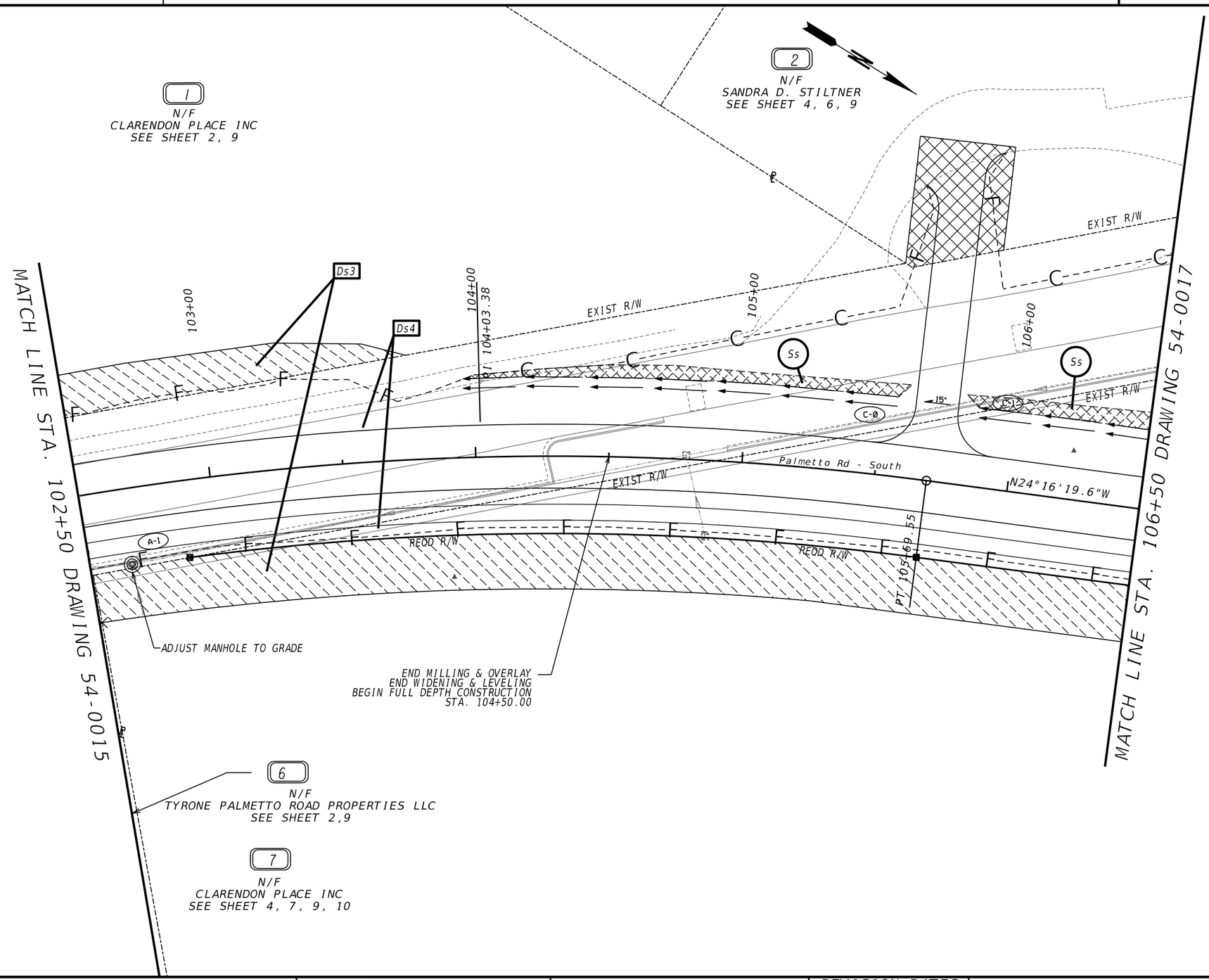

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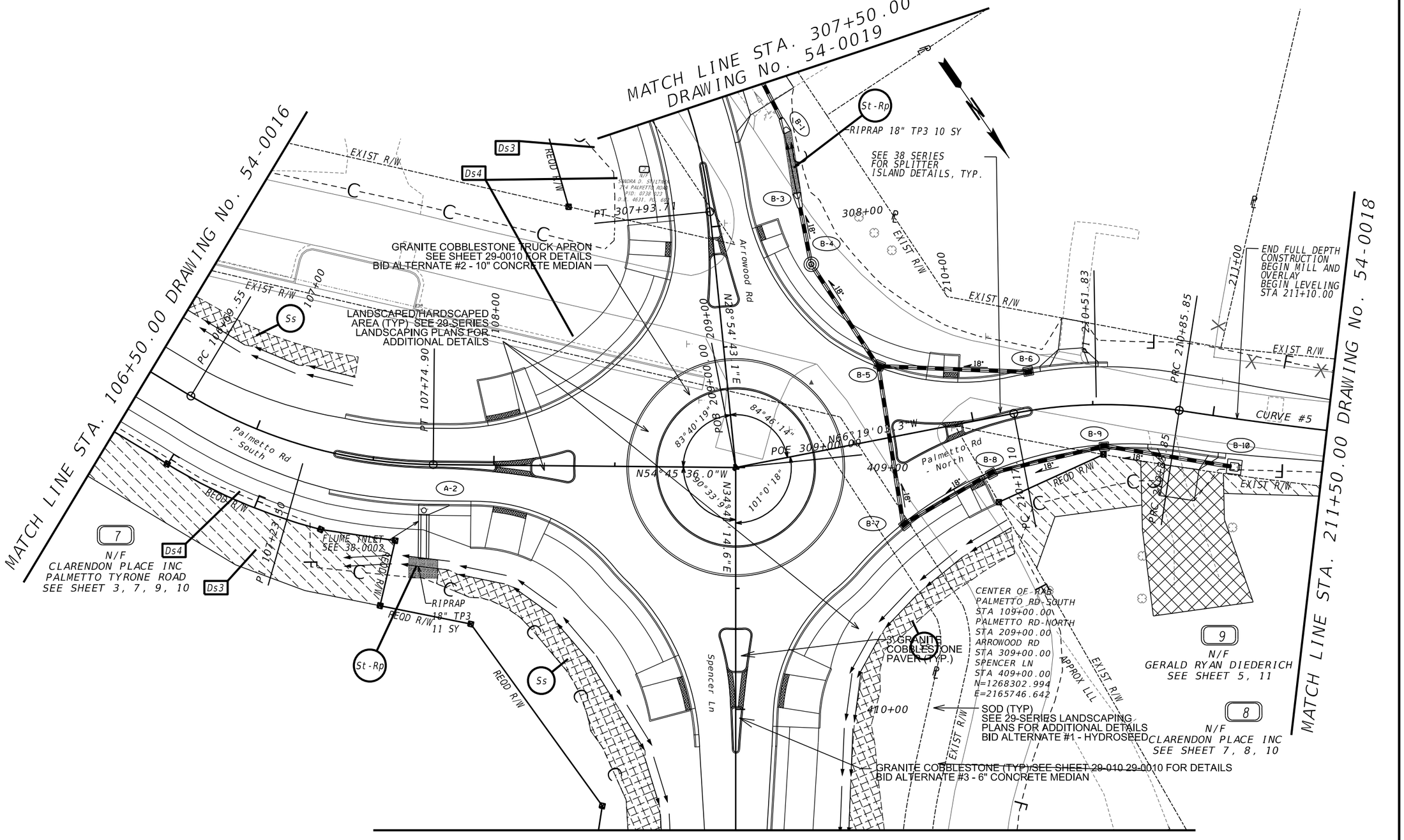

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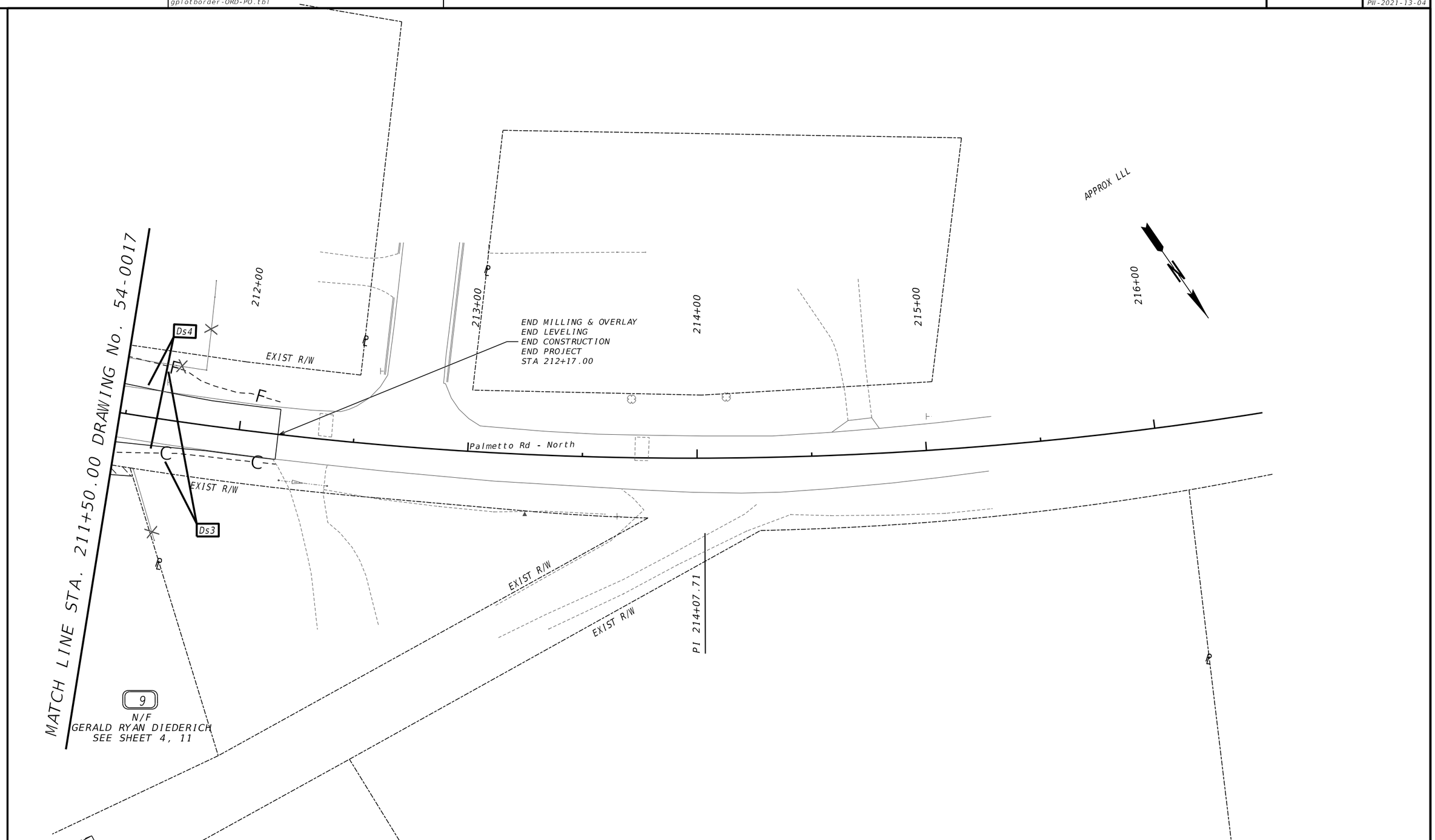

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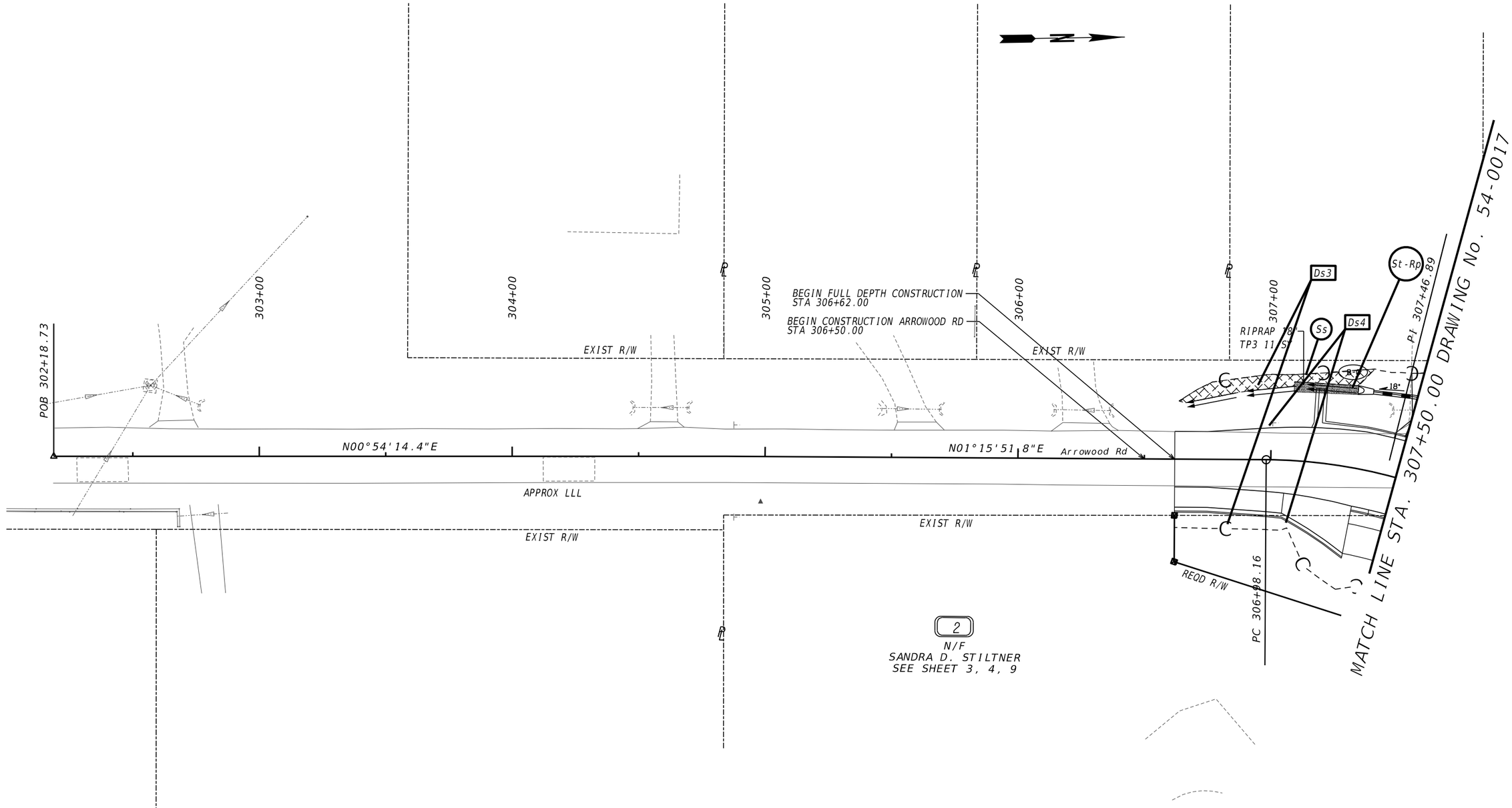

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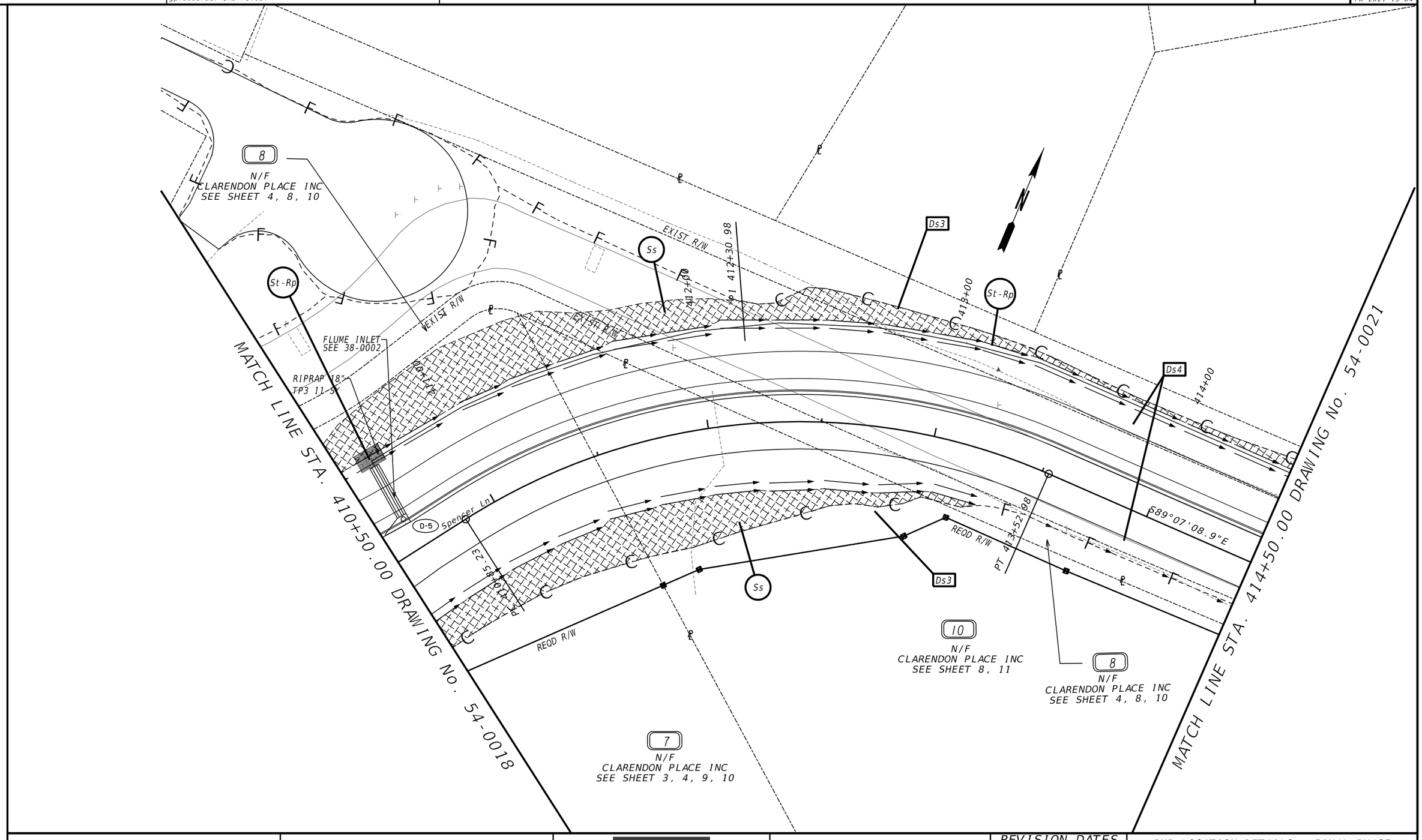

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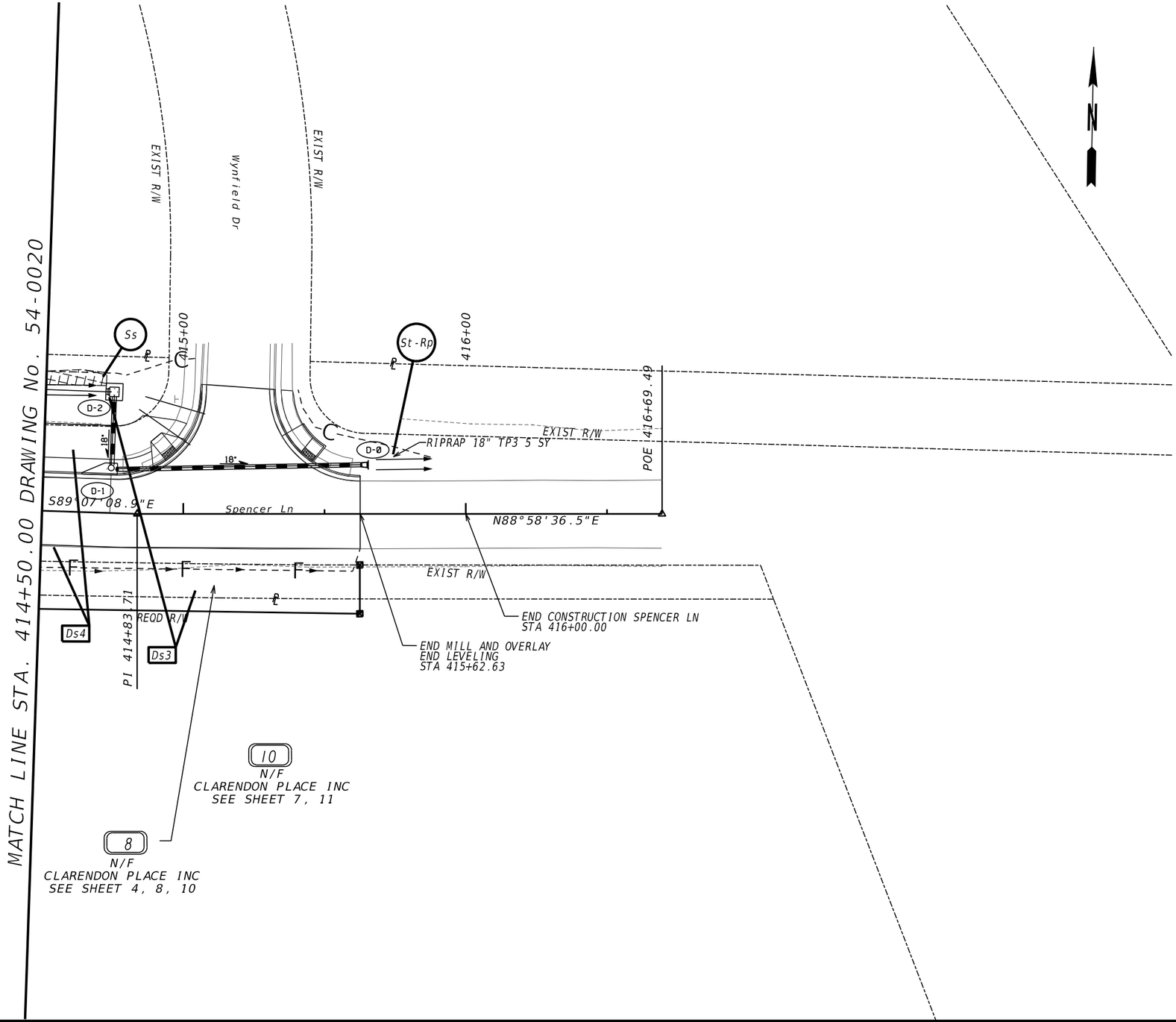

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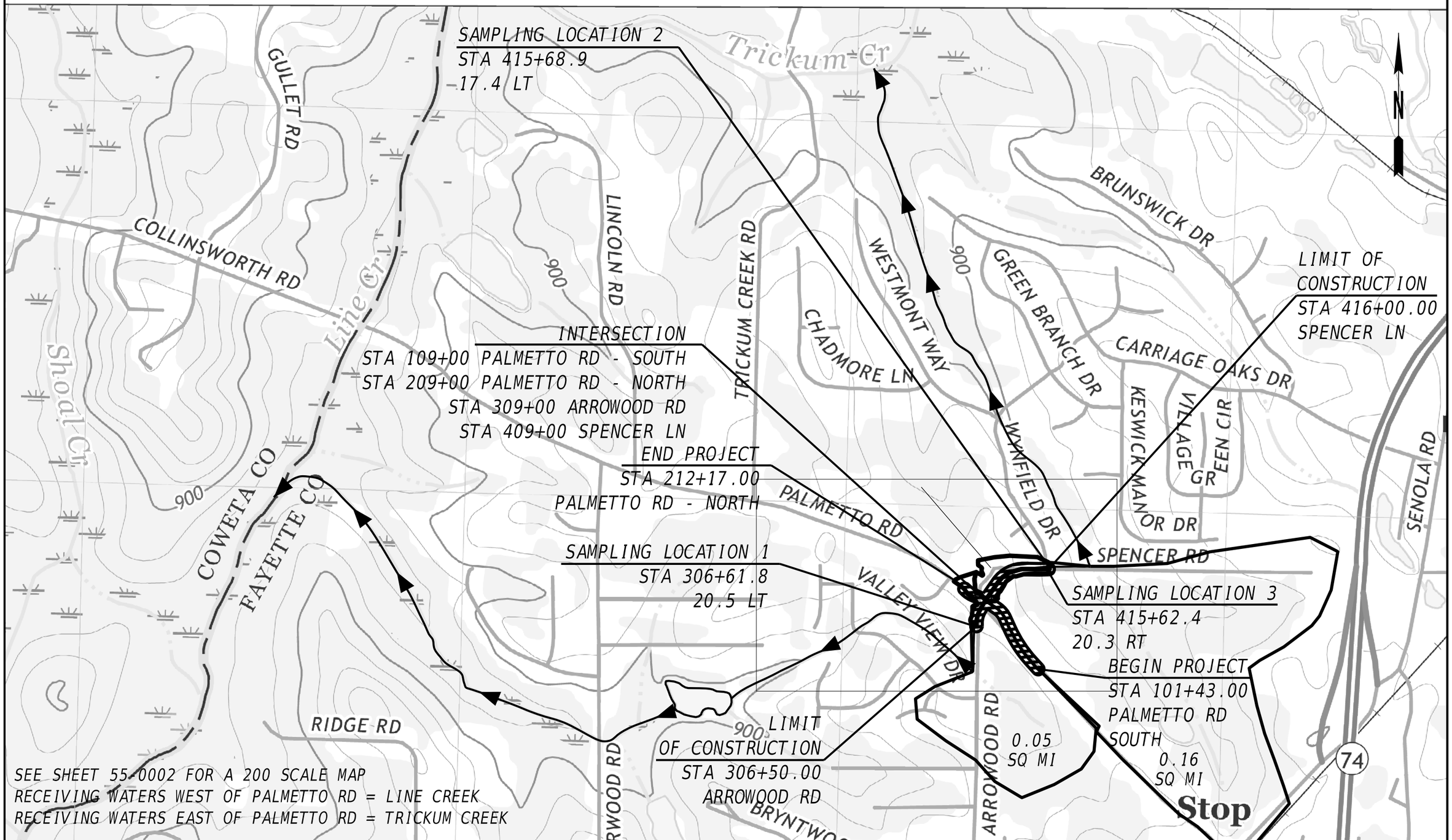


SEE SHEET 55-0002 FOR A 200 SCALE MAP
RECEIVING WATERS WEST OF PALMETTO RD = LINE CREEK
RECEIVING WATERS EAST OF PALMETTO RD = TRICKUM CREEK

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

POND
Architects ■ Engineers ■ Planners

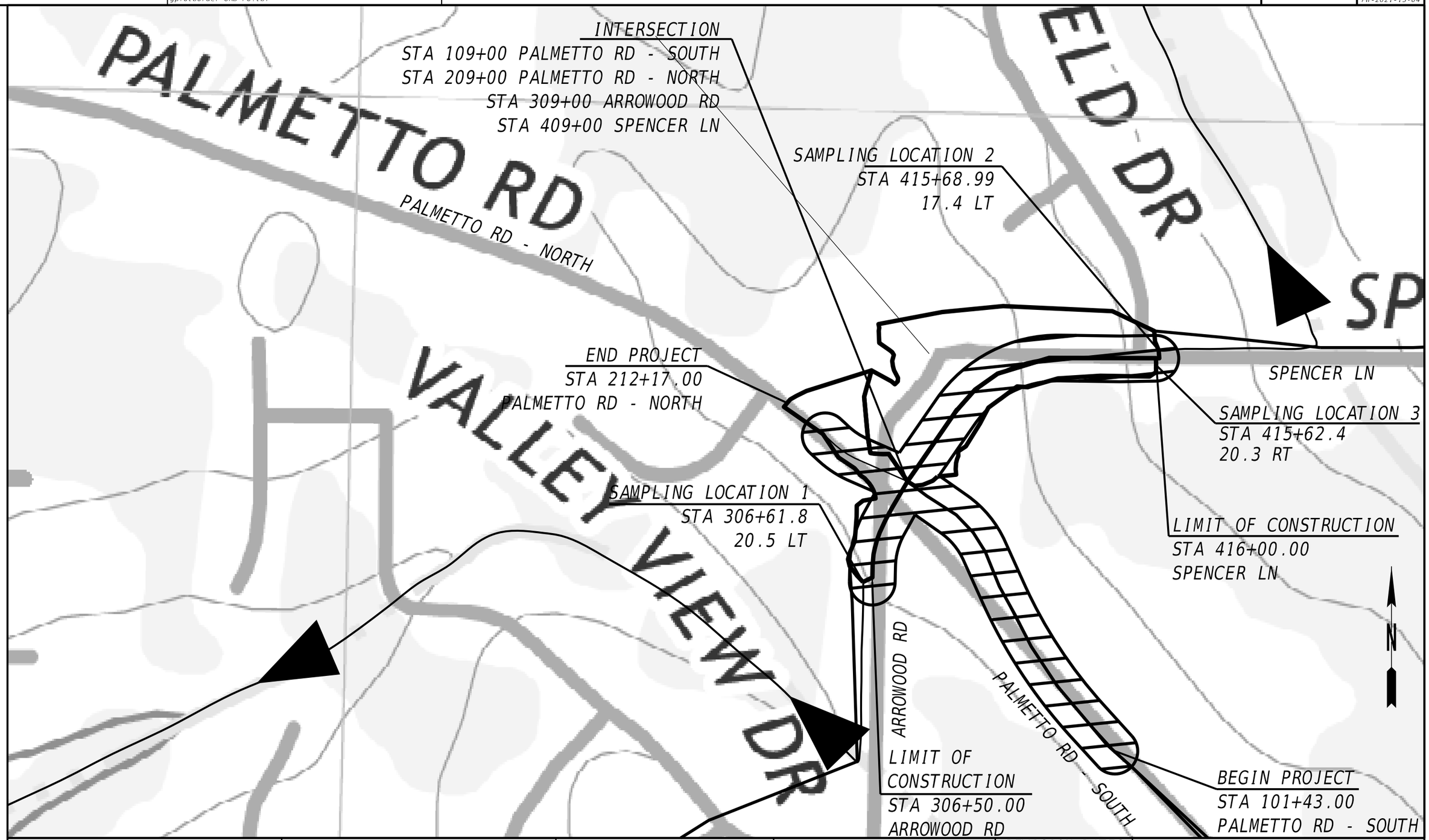
SCALE IN FEET
0 400 800 1600

REVISION DATES

WATERSHED MAP SITE MONITORING PLAN
PALMETTO ROAD AT ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		55-0001
VERIFIED:		DATE:		

GPLN-CE
11/05/2020



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

TOWN OF TYRONE - GEORGIA - EST. 1911

POND
Architects ▪ Engineers ▪ Planners

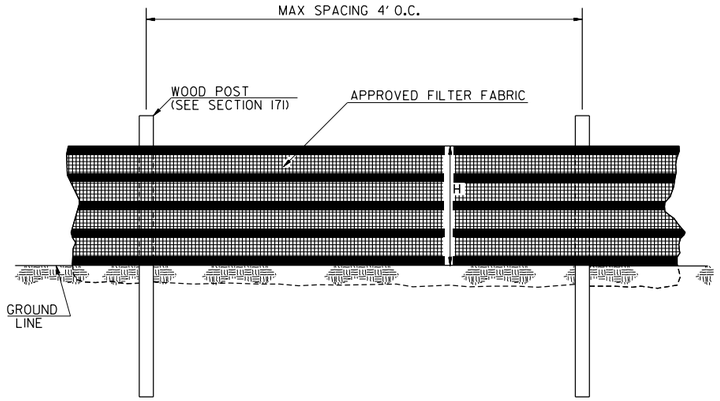
SCALE IN FEET
0 100 200 400

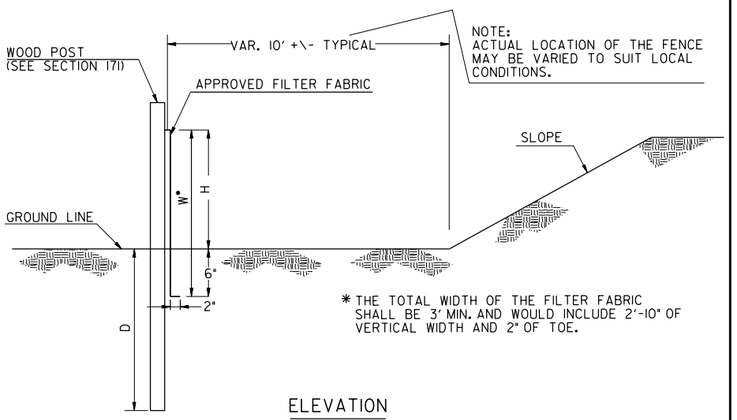
REVISION DATES

WATERSHED MAP SITE MONITORING PLAN
PALMETTO ROAD AT
ARROWOOD ROAD/SPENCER LANE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		55-0002
VERIFIED:		DATE:		

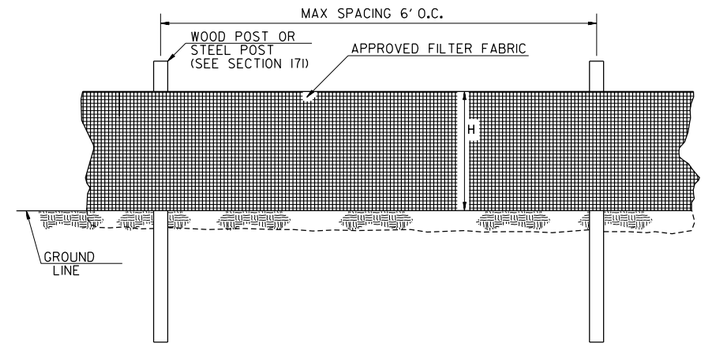
GPLN-CE
11/05/2020

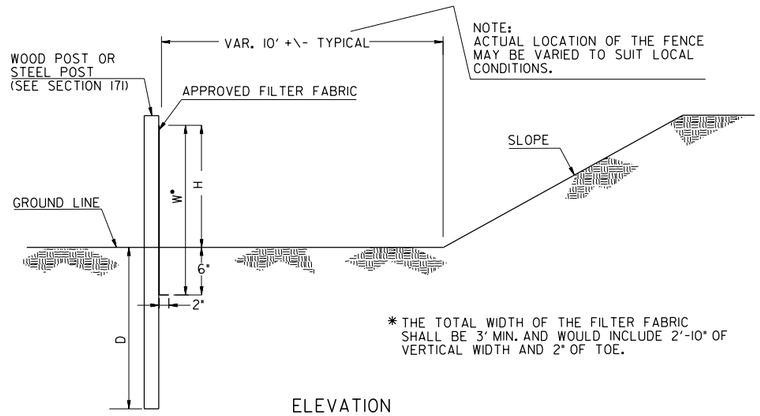




ELEVATION

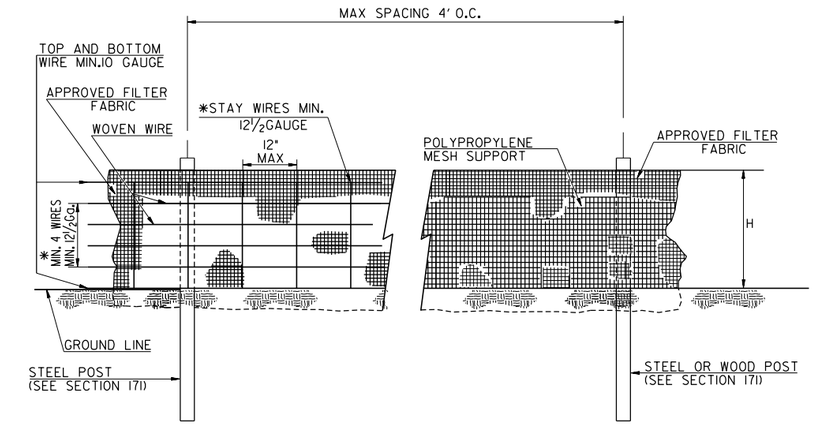
SINGLE ROW TYPE C SILT FENCE WITH HIGH TENSILE POLYPROPYLENE INTEGRATED SUPPORT WOVEN FABRIC





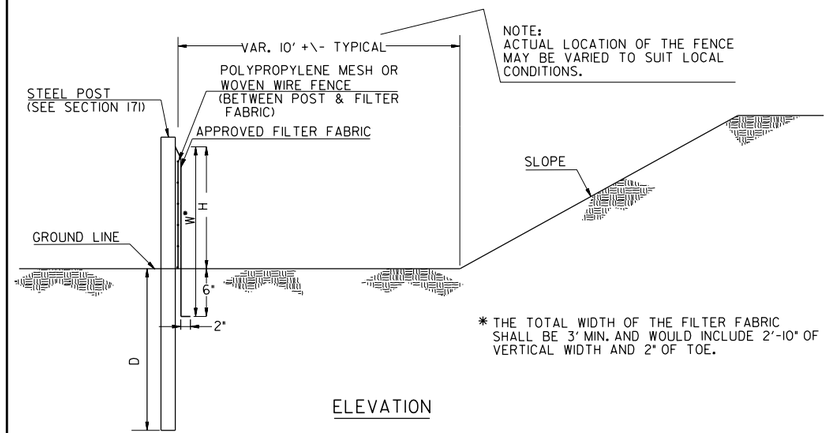
ELEVATION

SINGLE ROW TYPE A SILT FENCE



WOVEN WIRE SUPPORTED
TYPE C FENCE

POLYPROPYLENE MESH SUPPORT
TYPE C FENCE



ELEVATION

SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT OR POLYPROPYLENE MESH SUPPORT

FENCE TYPE	POST LENGTH	H	D	W*	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

NOTES:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST ½ INCHES LONG AND A CROWN AT LEAST ¾ INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG , WITH BUTTON HEADS AT LEAST ¾ INCHES WIDE.
2. SEE SECTION 171 FOR PLACEMENT OF NAILS OR STAPLES FOR TYPE A AND TYPE C FENCES.
3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12½ GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE QPL-36 FOR A LIST OF APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

GDOT Georgia Department of Transportation

Pr. I. No.

BY	REVISION	DATE
AL	ADDED HIGH TENSILE POLYPROPYLENE INTEGRATED FABRIC	09-2022

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

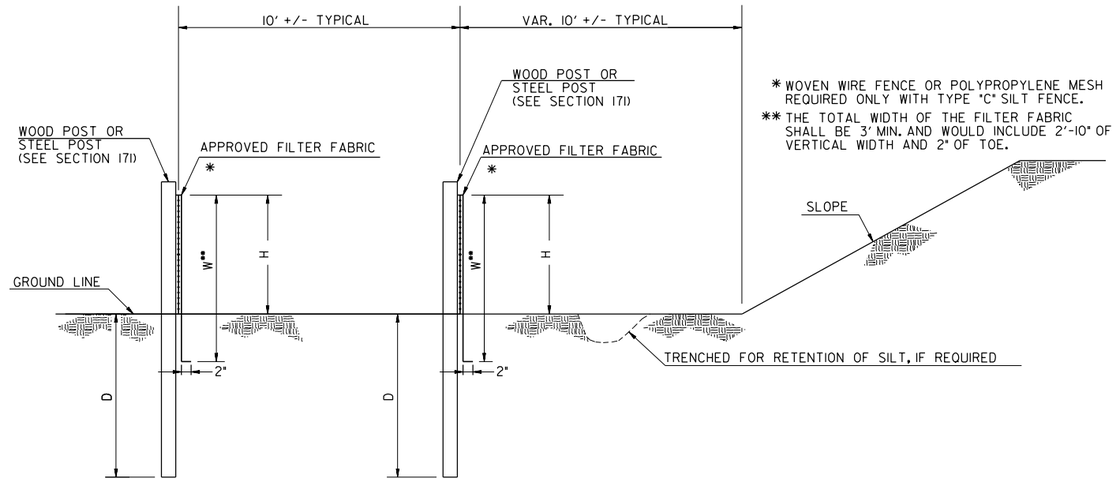
CONSTRUCTION DETAIL

TEMPORARY SILT FENCE

JANUARY 2011
NO SCALE

NUMBER
D-24A
1 OF 4

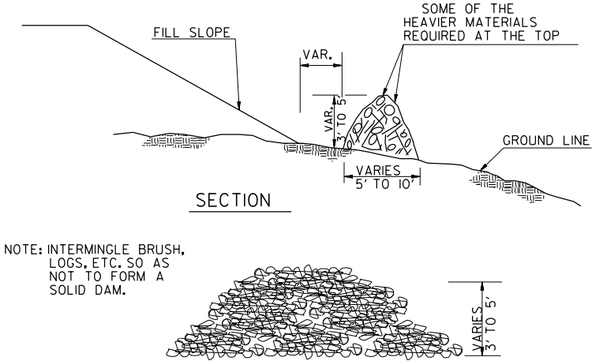
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



ELEVATION

DOUBLE ROW SILT FENCE

FENCE TYPE	POST LENGTH	H	D	W**	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.



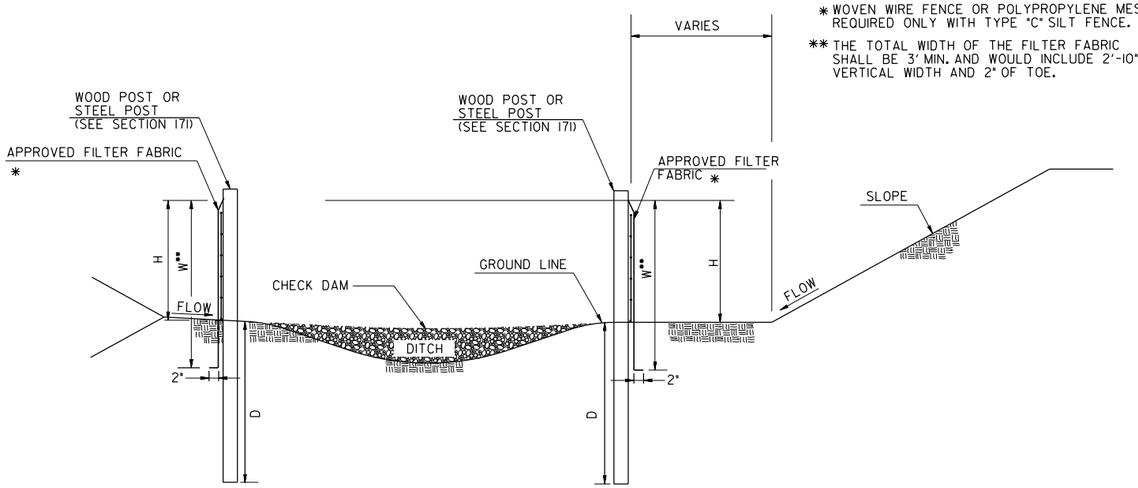
SECTION

NOTE: INTERMINGLE BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM.

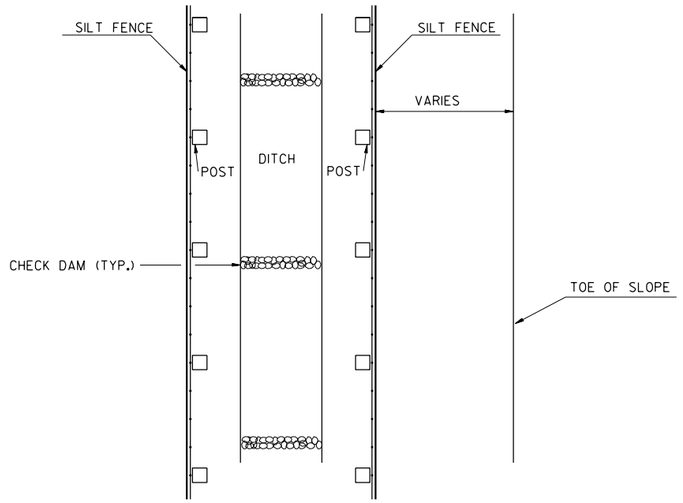
FRONT VIEW

NOTE: BRUSH BARRIER(S) WILL BE INCLUDED IN PAYMENT FOR CLEARING & GRUBBING.

BRUSH BARRIER DETAILS
(FOR USE IN RURAL AREAS)



ELEVATION



PLAN

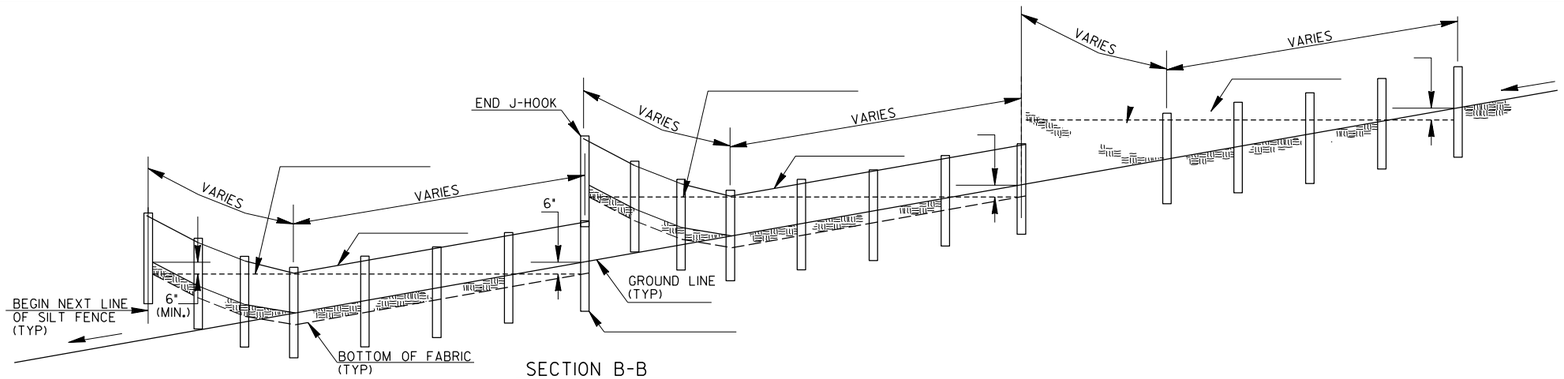
NOTE:
TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

FENCE TYPE	POST LENGTH	H	D	W**	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

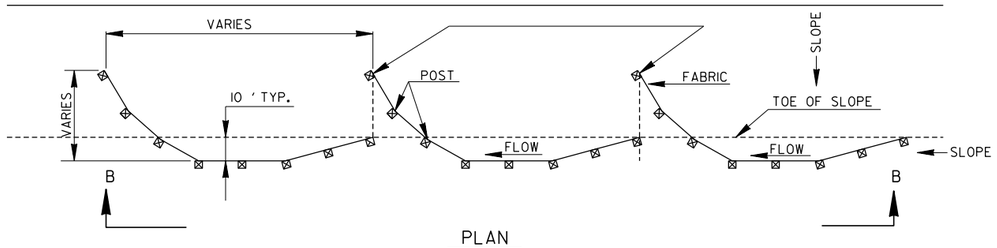
SILT FENCE
PERIMETER INSTALLATION ALONG DITCH SECTION

DATE	09-2022	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
REVISION	FABRIC WIDTH CLARIFICATION	CONSTRUCTION DETAILS TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER
BY	BAS	REV. AND REDRAWN JAN. 2011 NO SCALE
		NUMBER D-24B (SHEET 2 OF 4)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SECTION B-B



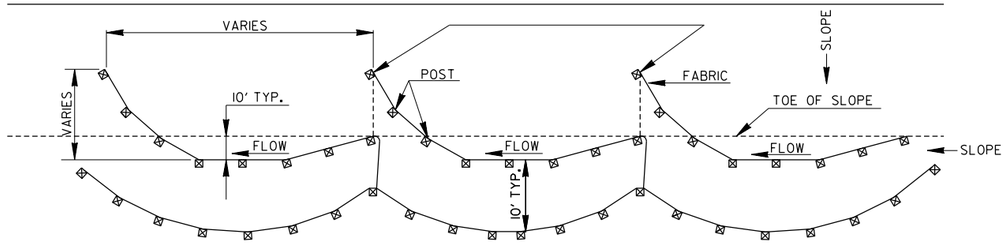
PLAN

SINGLE ROW SILT FENCE

TYPICAL J HOOK SPACING		
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A OR TYPE C	100' ±
2% TO 3%	TYPE A OR TYPE C	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

NOTE:
1. IF THE GRADE IS BETWEEN 0 TO 1PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.

2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

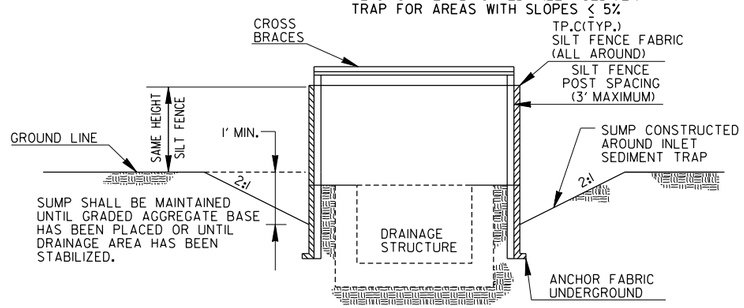


PLAN

DOUBLE ROW SILT FENCE

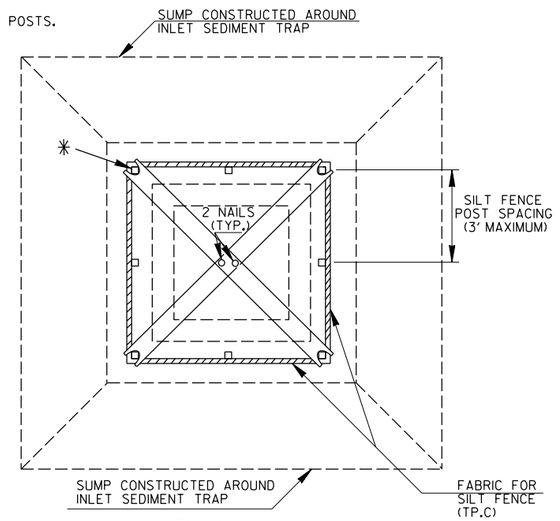
TYPICAL LOCATION AROUND DROP INLETS

ALT. TO PREFABRICATED INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%



ELEVATION

✳ CROSS BRACING REQUIRED WHEN USING "ALTERNATE" TYPE C PRODUCTS WHICH USE WOOD POSTS.



PLAN

CROSS BRACES:

TWO - 2 X 4's WITH ENDS TO FIT POST, PROVIDING STURDY SUPPORT, OR AN APPROVED ALTERNATE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE:
SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE DETAILS" FOR SILT FENCE ERECTION DETAILS.

NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.

2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.

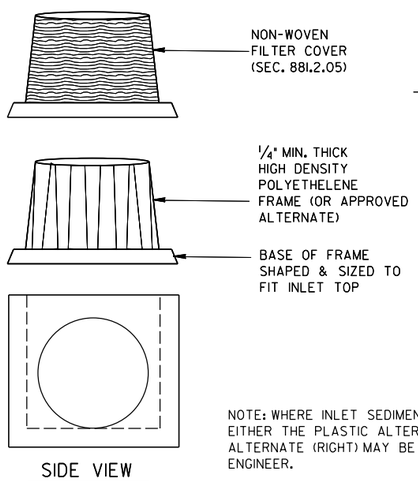
3. SLIDE THE FILTER OVER THE FRAME.

4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.

5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

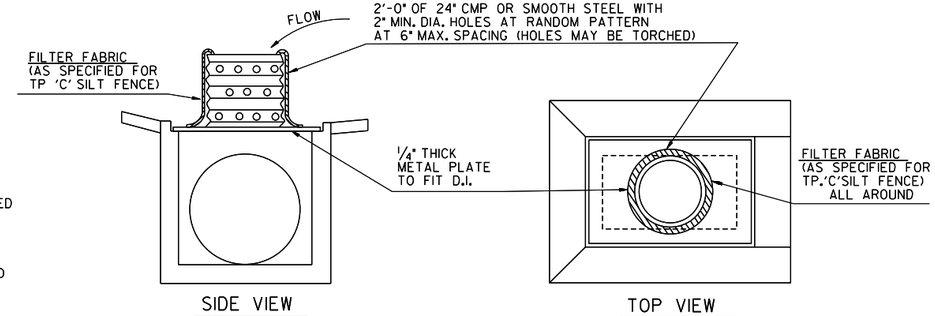
NOTE:
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.

(PLASTIC ALTERNATE)



SIDE VIEW

(METAL ALTERNATE)



SIDE VIEW

TOP VIEW

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.

NOTE:
INLET SEDIMENT TRAP AND INLET TO BE BUILT CONTINUOUS WITH PIPE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH

NOTE: SEE SEPARATE DETAILS FOR SILT FENCE AROUND DROP INLETS.

INLET SEDIMENT TRAP - FOR DROP INLETS

DATE	REVISION	BY
09-2022	PLACEMENT CLARFICATION	BAS

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

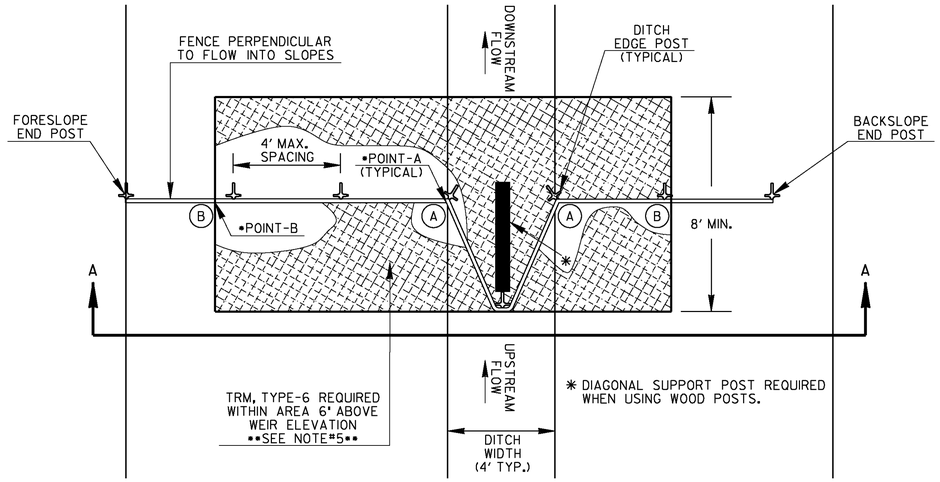
CONSTRUCTION DETAILS

TEMPORARY SILT FENCE
J-HOOK, INLET SEDIMENT TRAPS

JANUARY 2011
NO SCALE

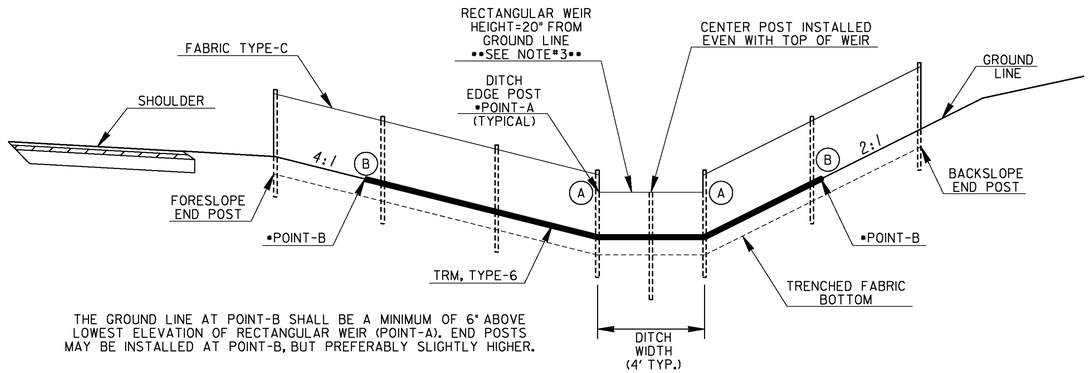
NUMBER D-24C
(SHEET 3 OF 4)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN VIEW

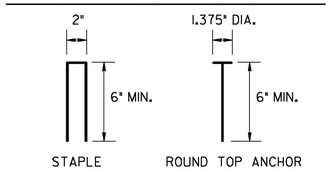
TYPICAL FABRIC CHECK DAM SPACING	
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±



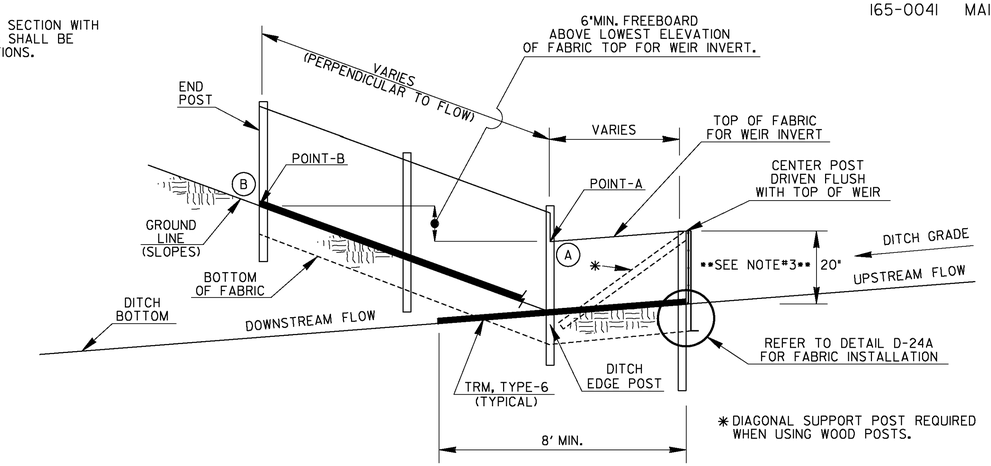
SECTION A-A

NOTE: CROSS-SECTION SHOWN IS AN EXAMPLE OF A TYPICAL CUT SECTION WITH A 4-FT FLAT BOTTOM DITCH. ACTUAL FABRIC CHECK DAMS SHALL BE INSTALLED SIMILARLY ACCORDING TO ROADWAY CROSS-SECTIONS.

TURF REINFORCEMENT MATTING ANCHOR



NOTE: TURF REINFORCEMENT MATTING SHALL BE ANCHORED WITH 8-GAUGE METAL STAPLES OR ROUND TOP ANCHORS. ANCHORS SHALL BE LONG ENOUGH TO PROVIDE SUFFICIENT GROUND PENETRATION TO RESIST PULL OUT.



NOTES:

1. FABRIC CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.

2. FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.

3. FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. IF DITCH DEPTH IS LESS THAN 26-IN, THE WEIR INVERT MAY BE LOWERED SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORT. THE WEIR HEIGHT SHALL BE NO LESS THAN 15-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR CONCENTRATED FLOW FOR DITCH DEPTHS LESS THAN 26-IN.

4. THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:

   A) DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-B WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.

   B) CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP-A WITH MINIMAL SOIL DISTURBANCE.

   C) LAYOUT TURF REINFORCEMENT MATTING (TRM), TYPE-6 TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A SPLASH PAD TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.

   D) INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.

   E) PROPERLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.

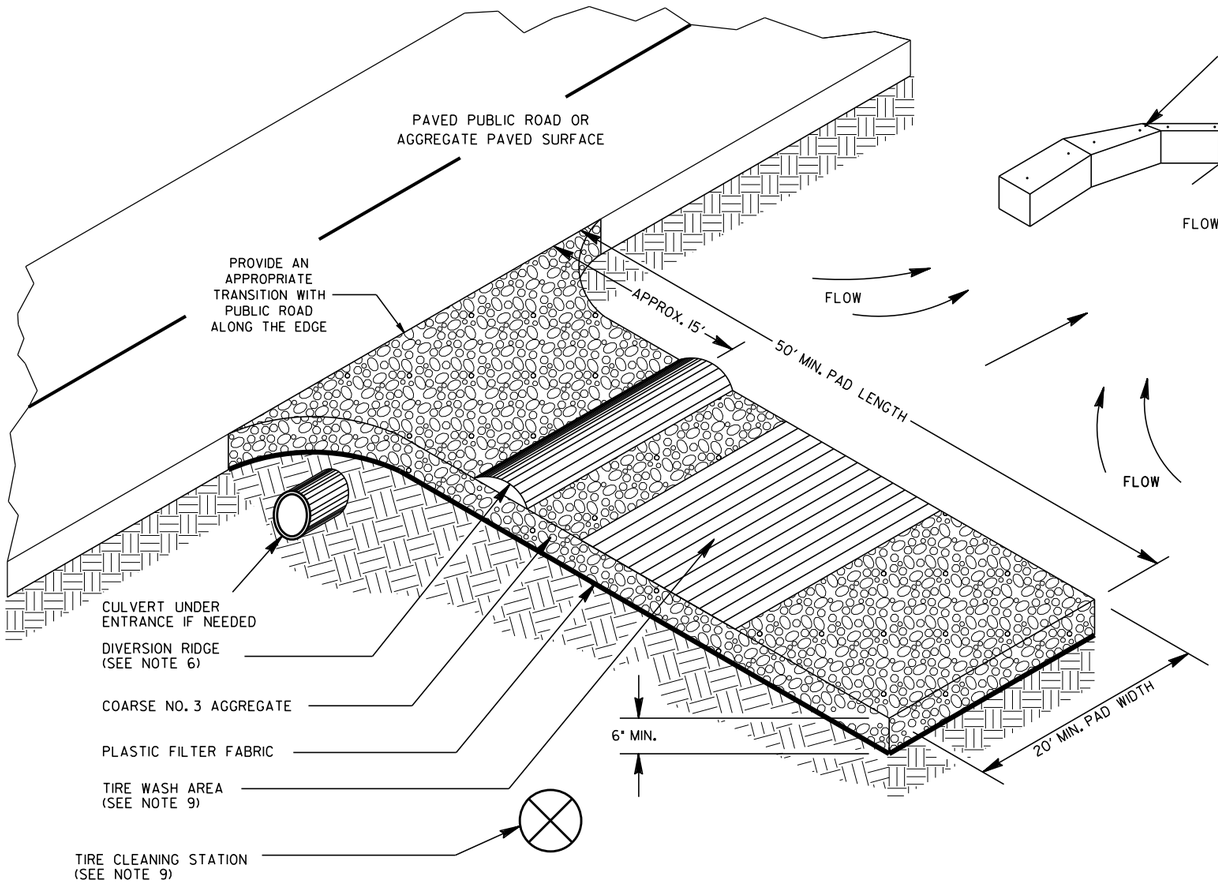
   F) INSTALL PREVIOUSLY CUT TRM FROM STEP-D UPSTREAM AGAINST CHECK DAM. INSTALLING UPSTREAM AND DOWNSTREAM TRM ACCORDING TO DETAIL D-35 FOR THIS TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.

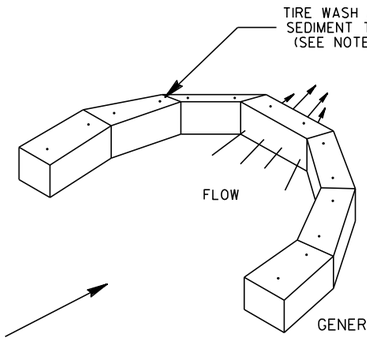
5. TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

PAY ITEMS:
163-0528 CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

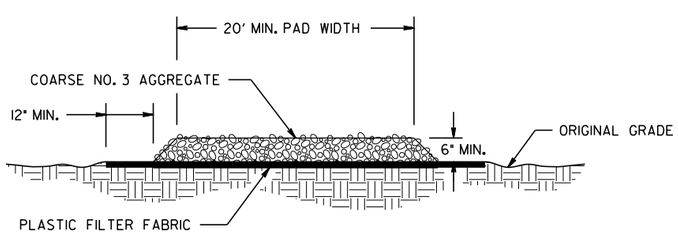
DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE FABRIC CHECK DAM	
BY		NO SCALE — REV. AND REDRAWN, JULY 2015	NUMBER D-24D (SHEET 4 OF 4)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			





ENTRANCE ELEVATION



GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.0% PASSING THE 1.06 INCH U.S. STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. TIRE WASH AREA INCLUDES SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE AND SHALL BE CONSTRUCTED EVEN IF CONSTRUCTION EXIT TIRE CLEANING STATION IS NOT USED.
9. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS THUS DICTATING ADDITIONAL TIRE CLEANING MEASURES, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE CLEANING STATION TO AN EXISTING CONSTRUCTION EXIT OR WHEN DIRECTED BY THE ENGINEER. THE CONSTRUCTION EXIT TIRE CLEANING STATION INCLUDES: WATER SOURCE, LABOR AND ALL MATERIALS NECESSARY TO PERFORM TASK. THIS WILL BE PAID FOR AS SHOWN IN SECTION 163.

   THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 67 CUBIC YARDS PER ACRE OF DRAINAGE. TIRE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
11. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT MAY BE PAID WITH OR WITHOUT THE MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA. WHEN DIRECTED BY THE ENGINEER. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

SEE SECTION 163 FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE SECTION 165 FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

PAY ITEM:		
163-0301	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	(EA)
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA	(EA)
PAY ITEM:	**FOR FIELD USE ONLY ACCORDING TO SECTION 163**	
163-0310	CONSTRUCTION EXIT TIRE CLEANING STATION	(DAY)

BY	REVISION	DATE
HAC	REV GEN NOTES * 8-11	11-04-20
	REV PAY ITEM DESCS/REFS	
DLE	REV. TIRE WASH & NOTES	04-18-18
DLE	REV. CSWCC 2016 MANUAL	04-22-16
TPC	REV. CONSTR. EXIT LABELS	01-19-11

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

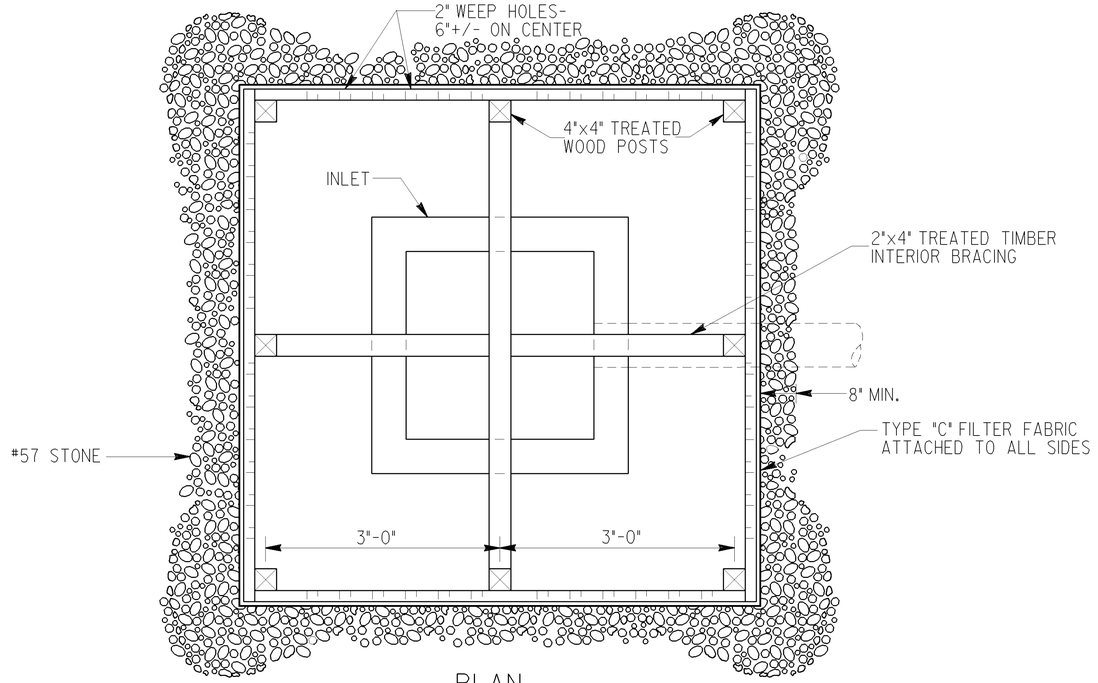
CONSTRUCTION EXIT

NO SCALE

FEBRUARY 2001

DESIGNED ____
DRAWN DLE
TRACED ____
CHECKED ____

NUMBER
D-41

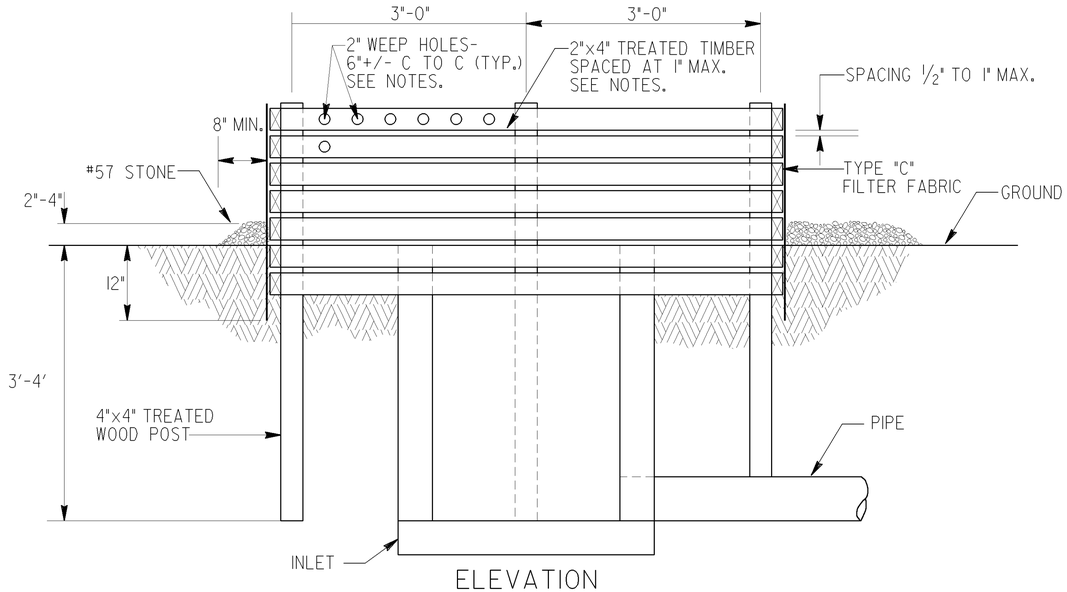


PLAN

NOTES:

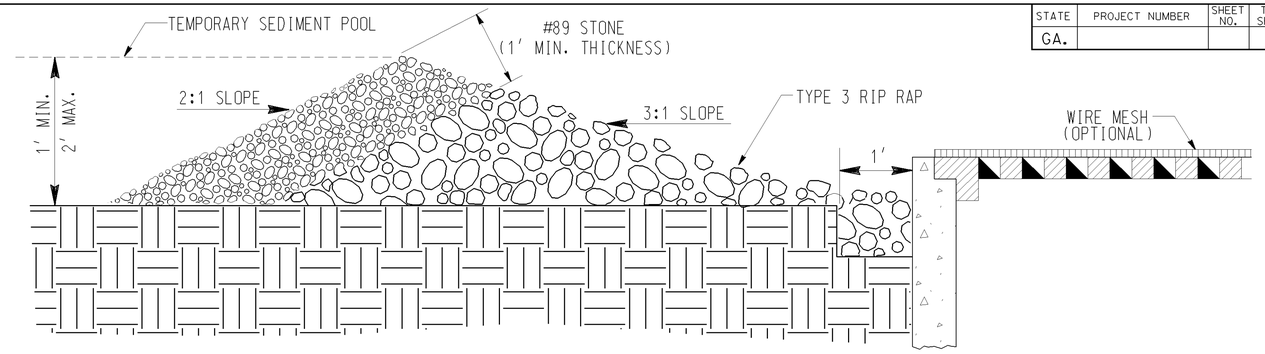
BAFFLE BOX SHALL BE CONSTRUCTED OF 2"x4" TREATED TIMBER SPACED A MAXIMUM OF 1" APART OR OF PLYWOOD WITH WEEP HOLES 2" IN DIAMETER PLACED APPROXIMATELY 6" ON CENTER VERTICALLY AND HORIZONTALLY.

GRAVEL SHALL BE PLACED OUTSIDE THE BOX, ALL AROUND THE INLET, TO A DEPTH OF 2 TO 4 INCHES. THE ENTIRE BOX SHALL BE WRAPPED IN TYPE "C" FILTER FABRIC THAT SHALL BE ENTRENCHED 12 INCHES AND BACKFILLED.

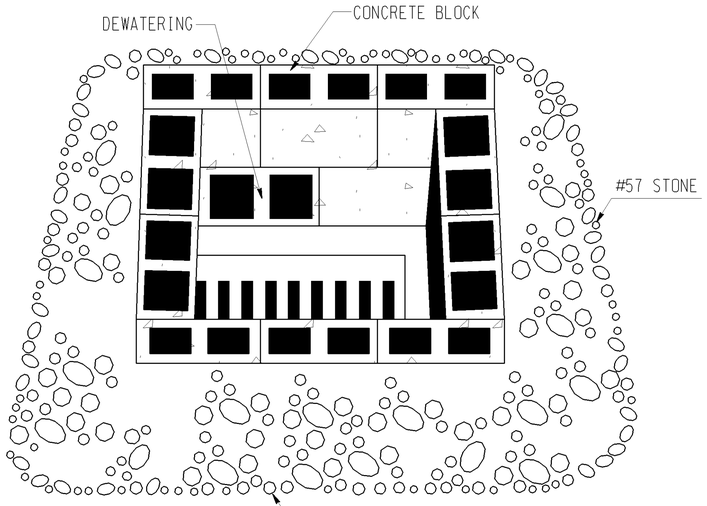


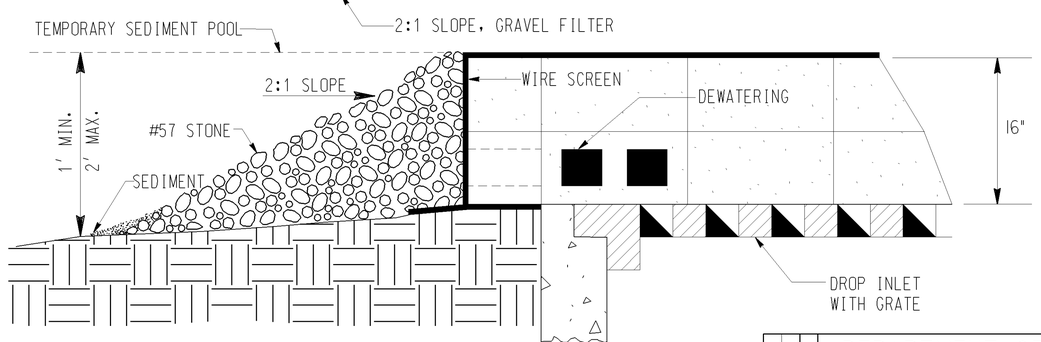
ELEVATION

BAFFLE BOX (Sd2-B)



GRAVEL DROP INLET PROTECTION (GRAVEL DONUT) Sd2-G





BLOCK & GRAVEL DROP INLET PROTECTION (Sd2-Bg)

BASIS OF PAYMENT:
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP _____ EACH

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

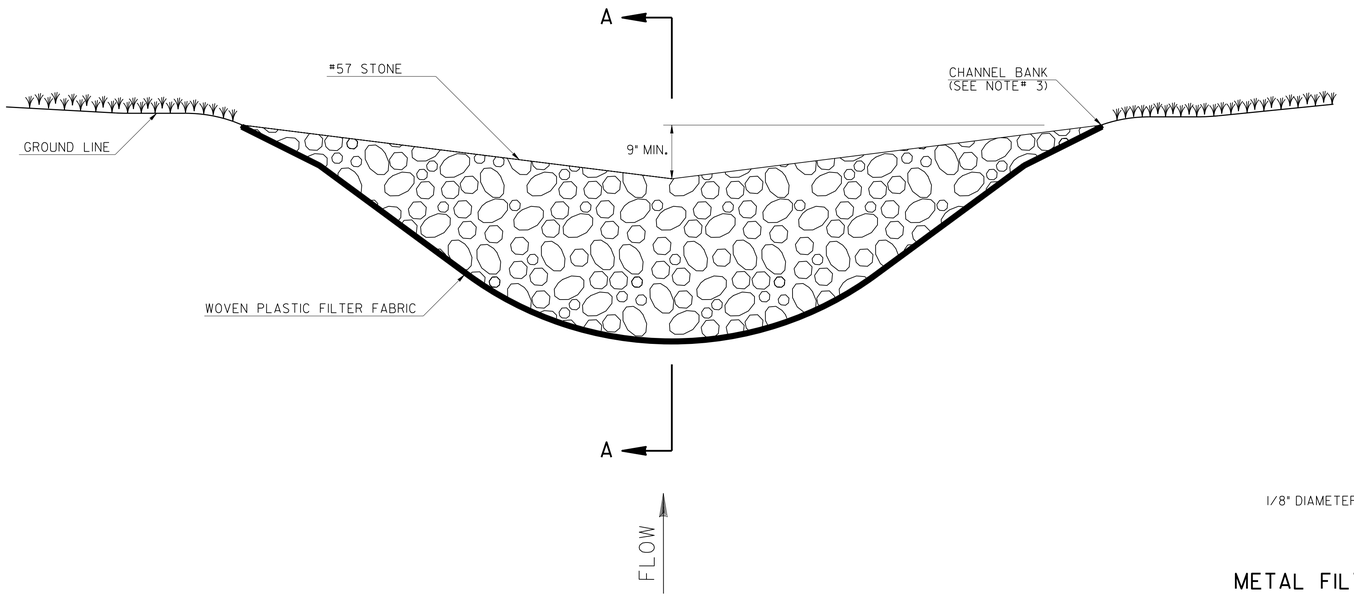
CONSTRUCTION DETAIL
INLET SEDIMENT TRAPS
BAFFLE BOX Sd2-B
BLOCK AND GRAVEL DROP INLET PROTECTION Sd2-Bg
GRAVEL DROP INLET PROTECTION Sd2-G

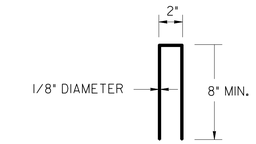
NO SCALE — MAY 2008

DATE	REVISION	BY

NUMBER D-42

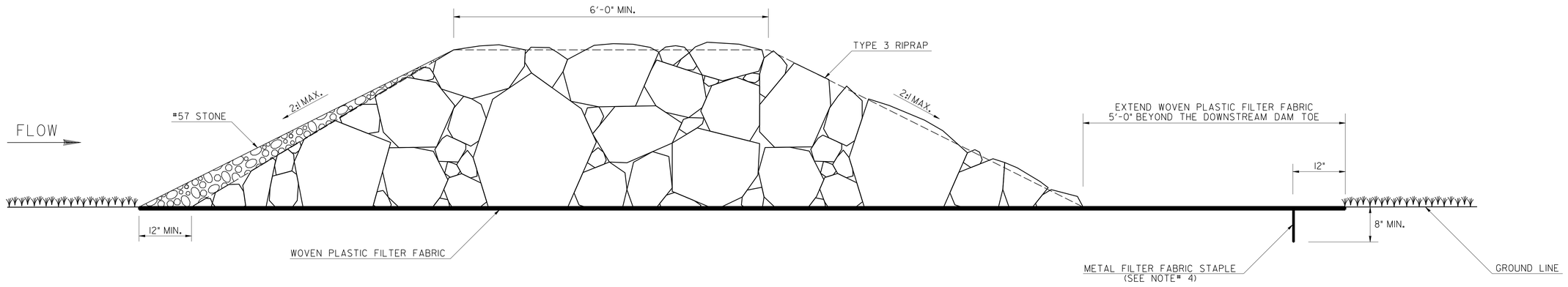
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			





METAL FILTER FABRIC STAPLE

SECTION A-A



GENERAL NOTES:

1. THE MAXIMUM DRAINAGE AREA TO A ROCK FILTER DAM SHALL BE 50-ACRES.
2. ROCK FILTER DAMS SHALL NOT BE INSTALLED IN STATE WATERS.
3. THE ROCK FILTER DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS OR ADVERSELY IMPACT UPSTREAM PROPERTY OR STATE WATERS WITH BACKWATER. THE CENTER OF THE ROCK FILTER DAM SHOULD BE AT LEAST 9-INCHES LOWER THAN THE OUTER EDGES OF THE ROCK FILTER DAM AT THE CHANNEL BANKS.
4. ANCHOR THE WOVEN PLASTIC FILTER FABRIC TO THE GROUND SURFACE WITH METAL FILTER FABRIC STAPLES 12-INCHES FROM THE EDGE AND NO GREATER THAN 12-INCHES APART.
5. REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE ROCK FILTER DAM. WOVEN PLASTIC FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.

PAY ITEMS:

163-0541	CONSTRUCT AND REMOVE ROCK FILTER DAM	(EA)
165-0110	MAINTENANCE OF ROCK FILTER DAM	(EA)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
ROCK FILTER DAM

NO SCALE

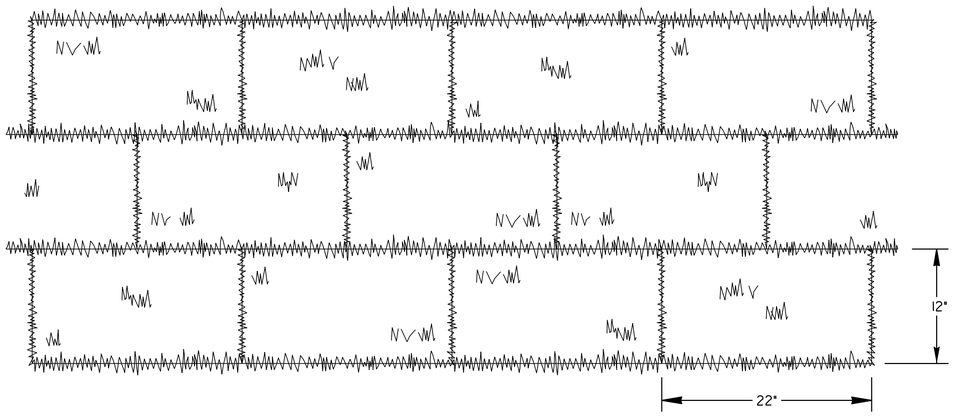
4-22-2016

DATE | REVISION | BY

NUMBER
D-43

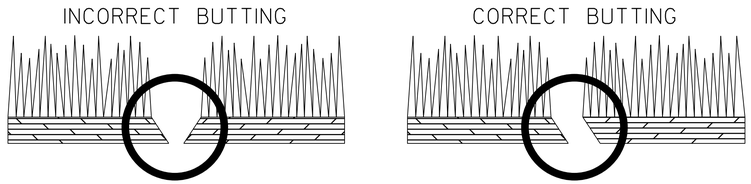
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

SOD LAYOUT

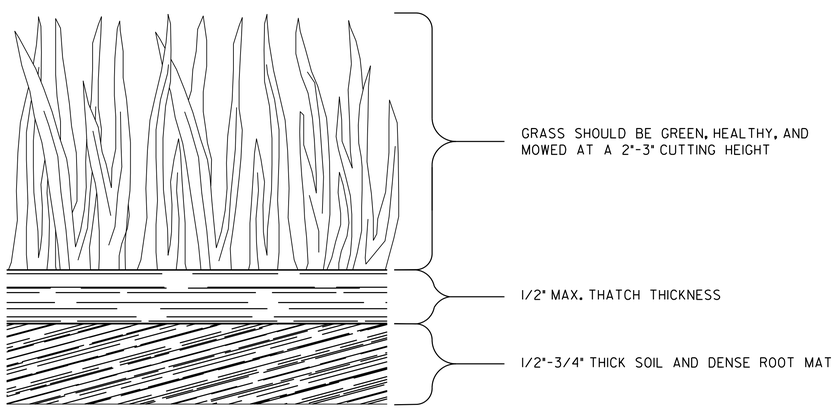


NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 21" WIDE BY 52' LONG ROLLS.

ABUTTING SOD



SOD APPEARANCE



GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO 12"Wx22"L BLOCKS OR 21"Wx52'L ROLLS.
2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 2:1 OR ANY OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 8" LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.
5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

PAY ITEM:
700-9300 SOD (SY)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

SOD INSTALLATION

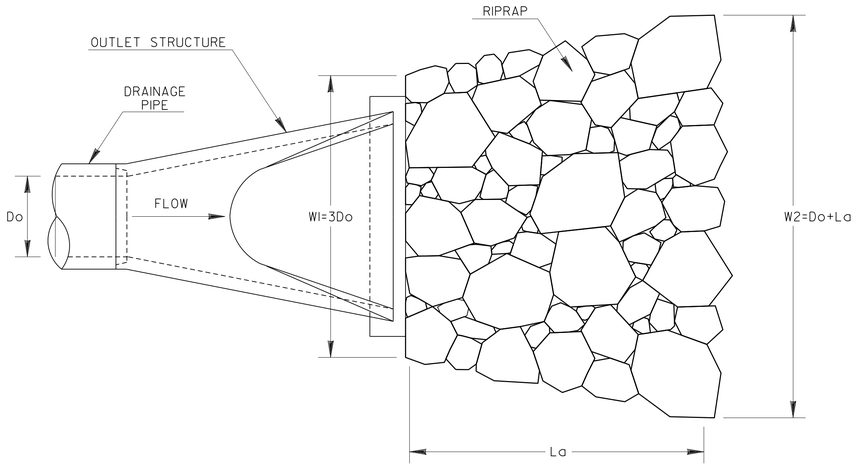
NO SCALE 4-22-2016

DESIGNED ____
DRAWN DLE
TRACED ____
CHECKED ____

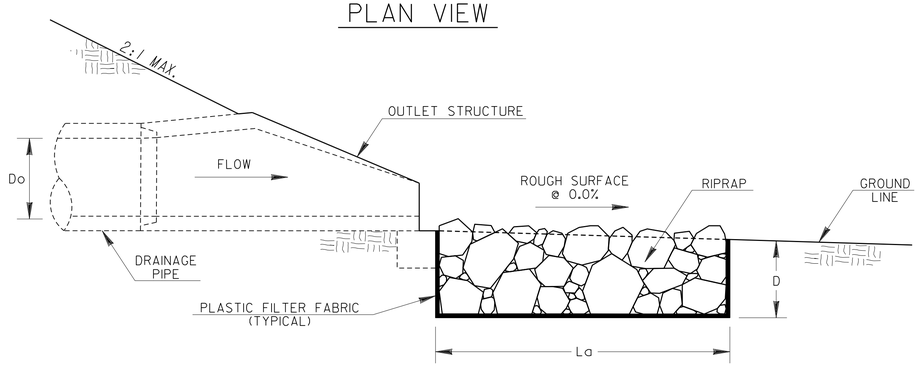
NUMBER D-54

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OUTLET TO FLAT AREA

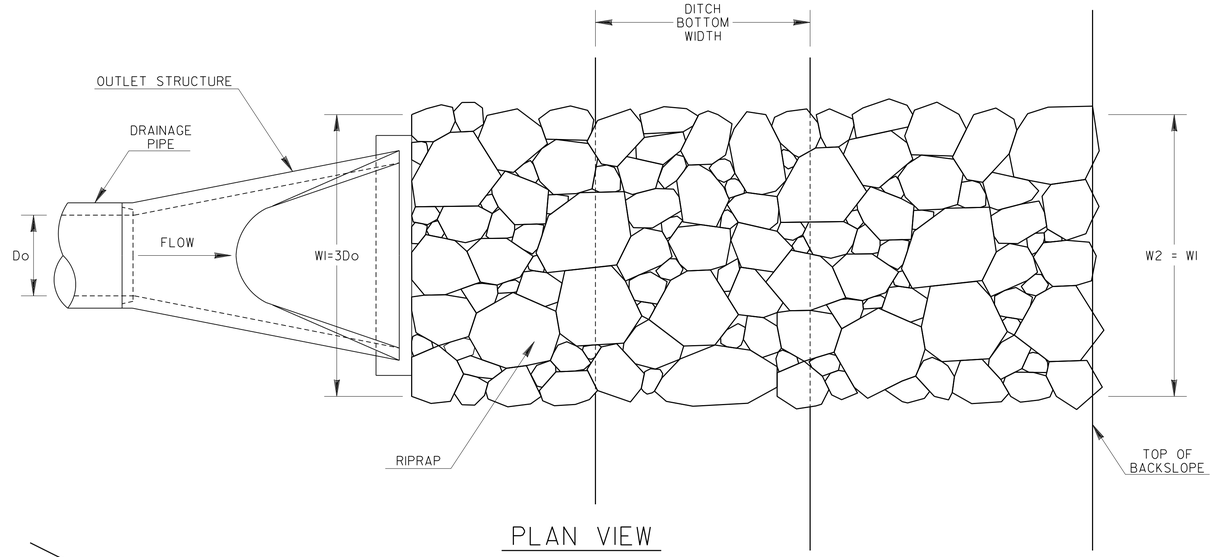


PLAN VIEW

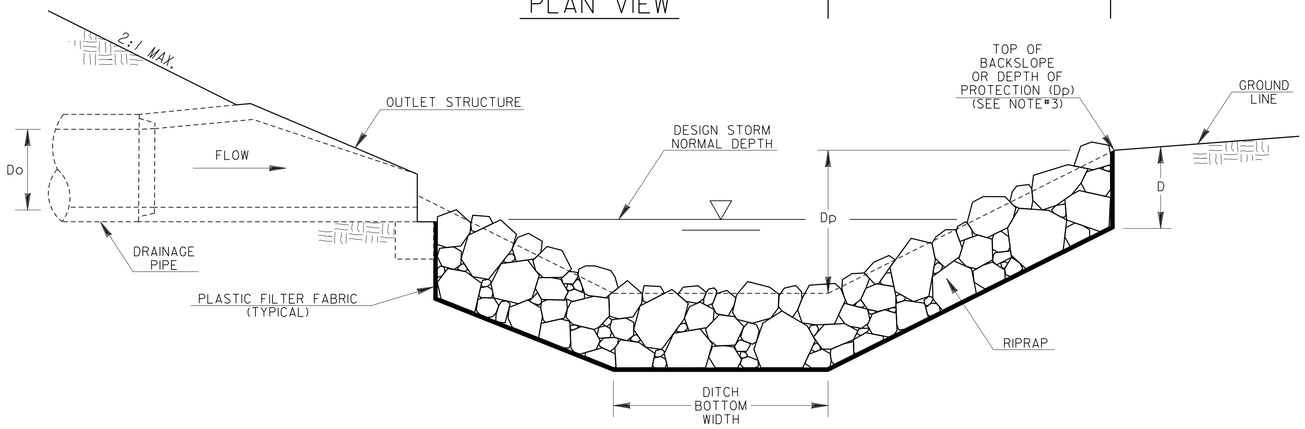


PROFILE VIEW

OUTLET PERPENDICULAR TO WELL-DEFINED CHANNEL



PLAN VIEW



PROFILE VIEW

GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY.
   RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.

2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
   THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (WI), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.

3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PERPENDICULAR INTO A WELL-DEFINED CHANNEL.
   THE LENGTH SHALL EXTEND ACROSS THE CHANNEL AND UP TO THE TOP OF THE CHANNEL BACKSLOPE OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.

4. IF THE OUTLET HYDRAULICS REQUIRE A d50<=0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50<=1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.

5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.

6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
Q = DESIGN STORM FLOW RATE
V = DESIGN STORM VELOCITY
Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
La = APRON LENGTH
WI = APRON WIDTH UPSTREAM
W2 = APRON WIDTH DOWNSTREAM
d50 = AVERAGE STONE DIAMETER
D = INSTALLATION DEPTH
Dp = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

RIPRAP OUTLET PROTECTION
(SHEET 1 OF 2)

NO SCALE 4-22-2016

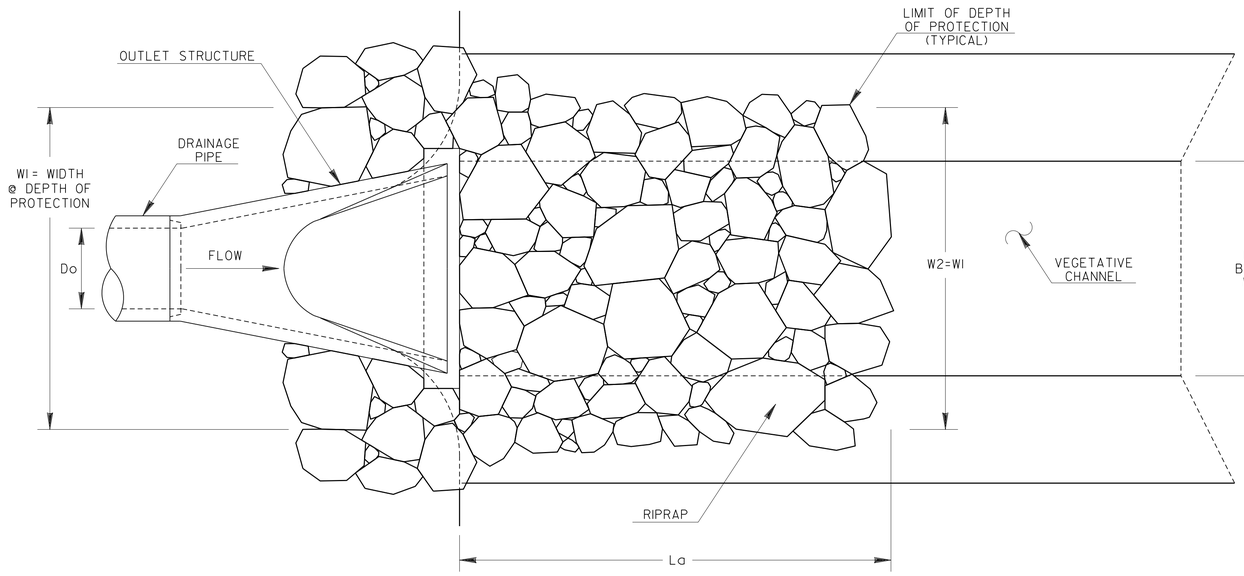
DATE | REVISION | BY

DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER
D-55A

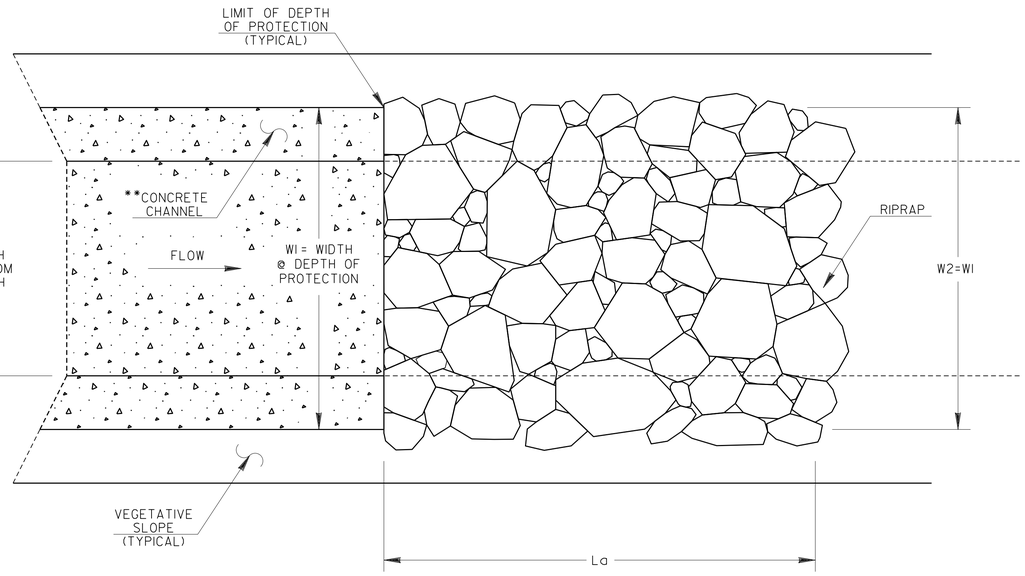
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OUTLET PARALLEL TO WELL-DEFINED CHANNEL



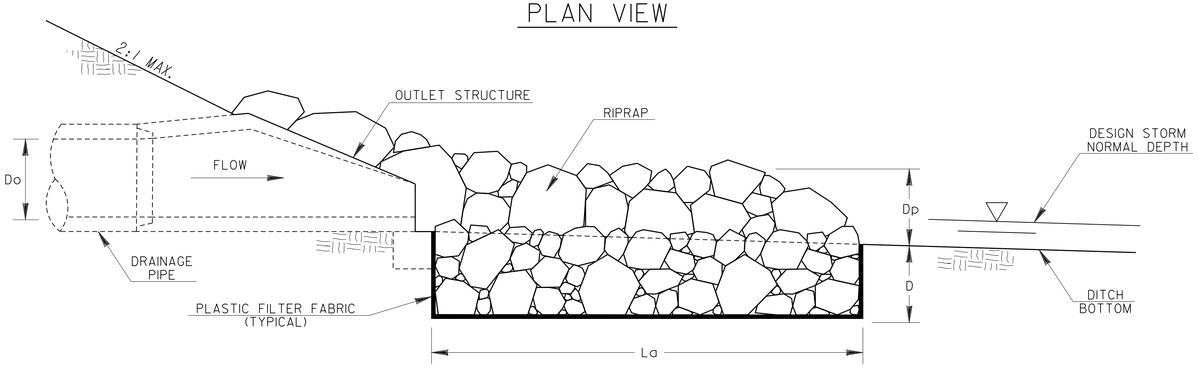
PLAN VIEW

CONCRETE CHANNEL TO RIPRAP TRANSITION

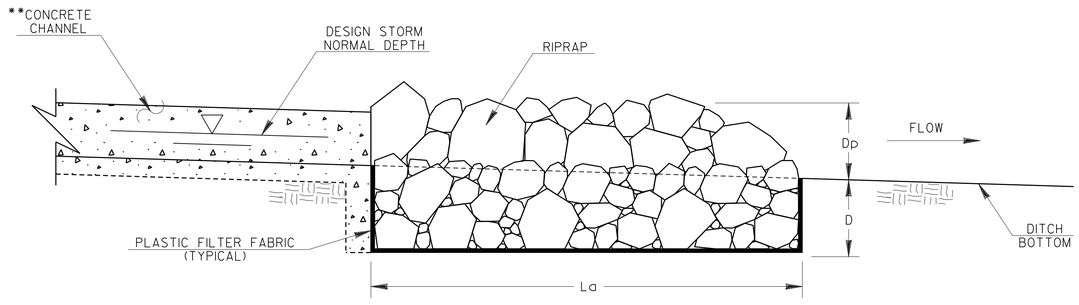


**REFER TO CONSTRUCTION DETAIL D-10 FOR CONCRETE DITCH PAVING INFORMATION

PLAN VIEW



PROFILE VIEW



PROFILE VIEW

GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY.
   RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
   RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.

2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
   THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (WI), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.

3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION. THE RIPRAP SHALL BE INSTALLED TO THE TOP OF CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE RIPRAP SHOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP SHOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.

4. IF THE OUTLET HYDRAULICS REQUIRE A d50<=0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50<=1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.

5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.

6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do	=	PIPE DIAMETER
Q	=	DESIGN STORM FLOW RATE
V	=	DESIGN STORM VELOCITY
Tw	=	TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
La	=	APRON LENGTH
WI	=	APRON WIDTH UPSTREAM AT DEPTH OF PROTECTION
W2	=	APRON WIDTH DOWNSTREAM AT DEPTH OF PROTECTION
d50	=	AVERAGE STONE DIAMETER
D	=	INSTALLATION DEPTH
Dp	=	DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

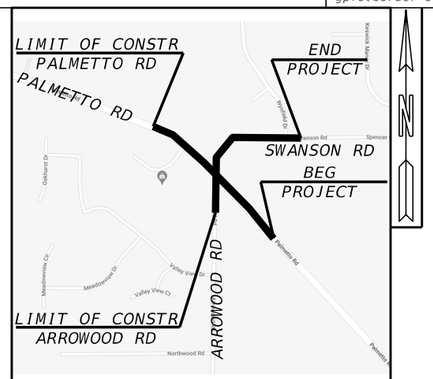
RIPRAP OUTLET PROTECTION (SHEET 2 OF 2)

NO SCALE — 4-22-2016

DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER D-55B

11/12/2024 Sean.Bush	GPLOT-ORD gplotborder-ORD-PO.tbl	1210771_60.dgn GRWCOV		PROJECT NUMBER PW-2021-13-04



LOCATION SKETCH

NOTE: THE CO-ORDINATES LISTED ARE WEST ZONE GRID CO-ORDINATES BASED ON THE GA. STATE PLANE CO-ORDINATE SYSTEM OF 1983.
HORIZONTAL DATUM : NAD 1983/2011
VERTICAL DATUM : NAVD 1988

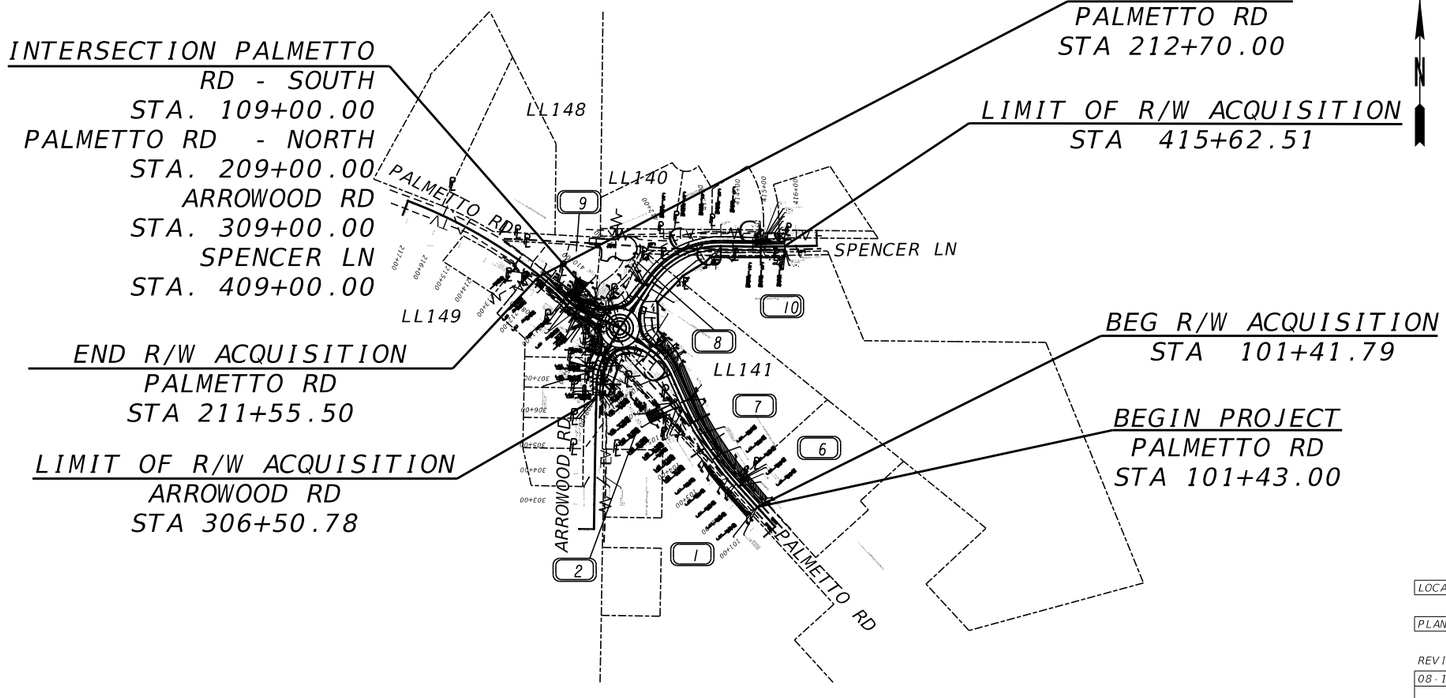
TOWN OF TYRONE
STATE OF GEORGIA

RIGHT OF WAY OF PROPOSED PALMETTO ROAD AT ARROWOOD ROAD/ SPENCER LANE ROUNDABOUT FAYETTE

FEDERAL AID PROJECT

PW-2021-13-04

FEDERAL ROUTE No.: N/A
STATE ROUTE No.: N/A
P.I. No.: N/A



PLANS PREPARED BY

POND
Architects ▪ Engineers ▪ Planners

TOWN OF TYRONE - GEORGIA - EST. 1911

LOCATION AND DESIGN APPROVAL DATE:

PLANS COMPLETED DATE: 03/15/2024

REVISIONS:

08-19-24: SH1, 4, 6, & 9	

DRAWING No.
60-0001

GMD 549
LAND DISTRICT 7
LAND LOTS 140, 141, 148, 149

PROJECT NUMBER: PW-2021-13-04

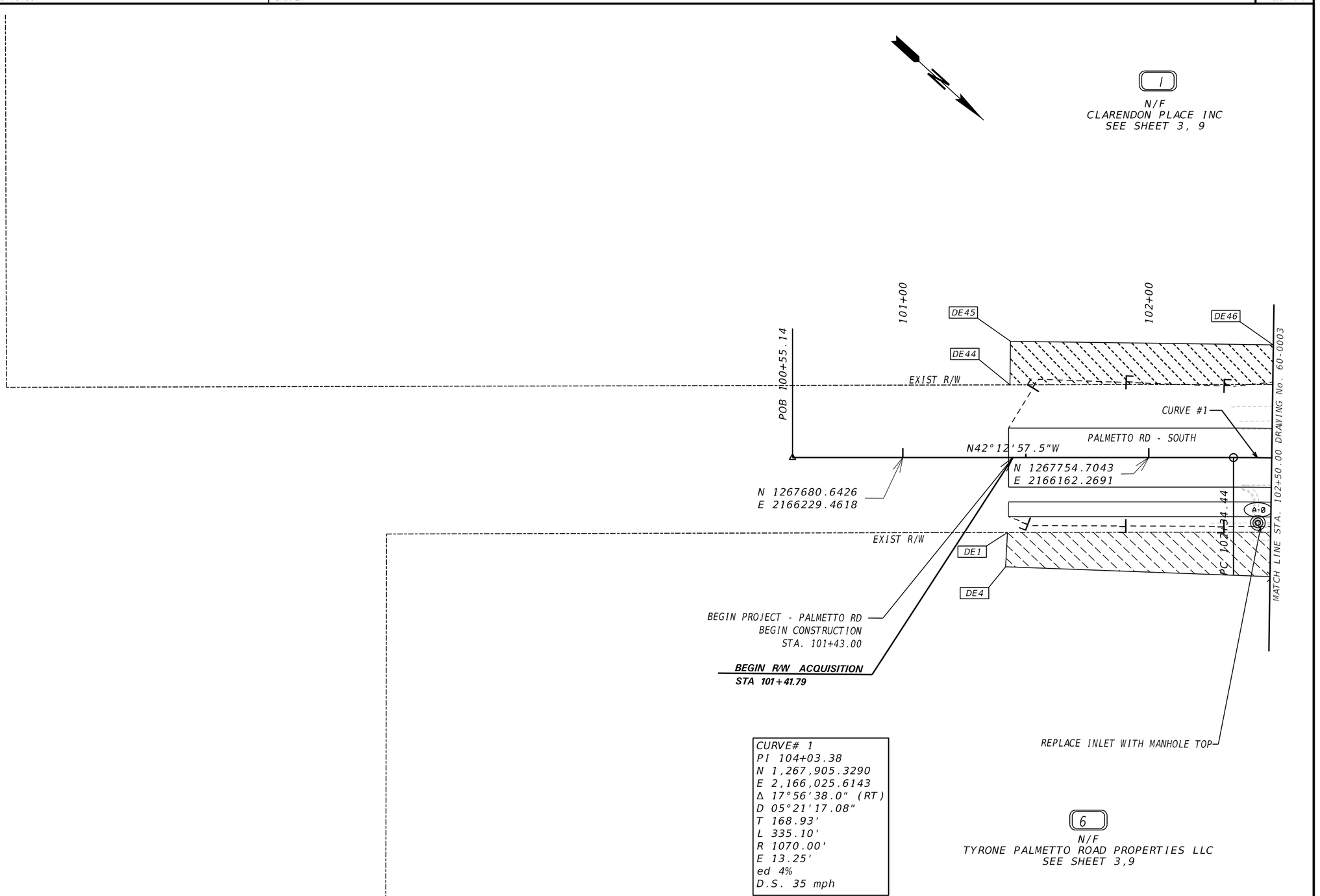
COUNTY: FAYETTE

NOTE: PARCEL 5 IS NOT INCLUDED IN PLAN SET.

LENGTH OF RIGHT OF WAY PROJECT	COUNTY NO. 113
	MILES
NET LENGTH OF RIGHT OF WAY	0.192
NET LENGTH OF BRIDGES	0.0000
NET LENGTH OF EXCEPTIONS	0.0000
GROSS LENGTH OF RIGHT OF WAY	0.192

SCALE IN FEET
0 200 400 800

THIS PROJECT IS LOCATED 100% IN FAYETTE COUNTY AND CONGRESSIONAL DISTRICT 003.



PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

DATE	REVISIONS

POND
Architects ▪ Engineers ▪ Planners

SCALE IN FEET
0 20 40 80

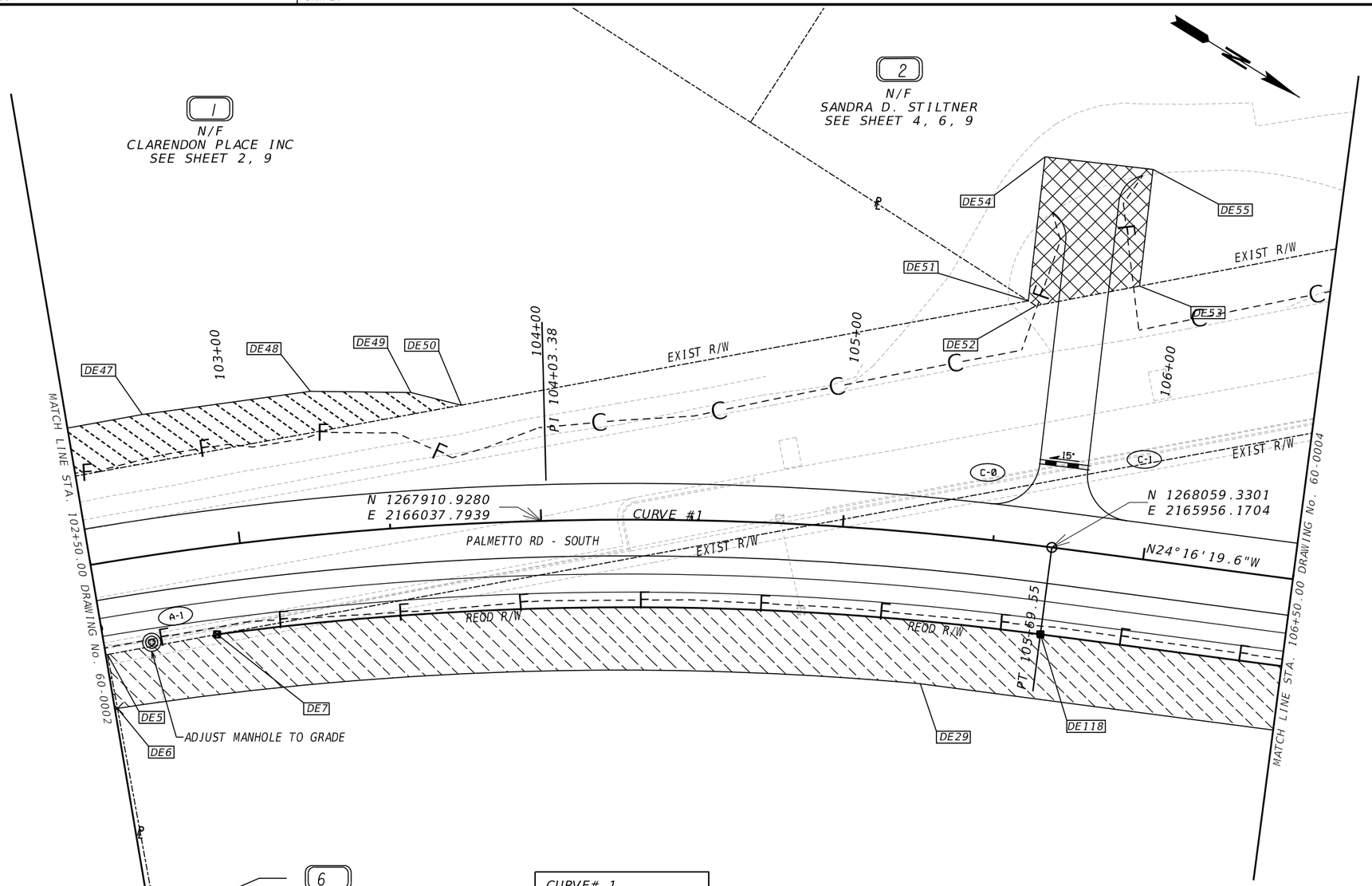
TOWN OF TYRONE

RIGHT OF WAY MAP

PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: 140
LAND DISTRICT: 7
GMD: 549
DATE 03/15/24 SH 02 OF 11

DRAWING No.
60-0002

GRWPLN-CE
11/05/2020



CURVE# 1
PI 104+03.38
N 1,267,905.3290
E 2,166,025.6143
Δ 17°56'38.0" (RT)
D 05°21'17.08"
T 168.93'
L 335.10'
R 1070.00'
E 13.25'
ed 4%
D.S. 35 mph

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

DATE	REVISIONS

POND
Architects ▪ Engineers ▪ Planners

SCALE IN FEET
0 20 40 80

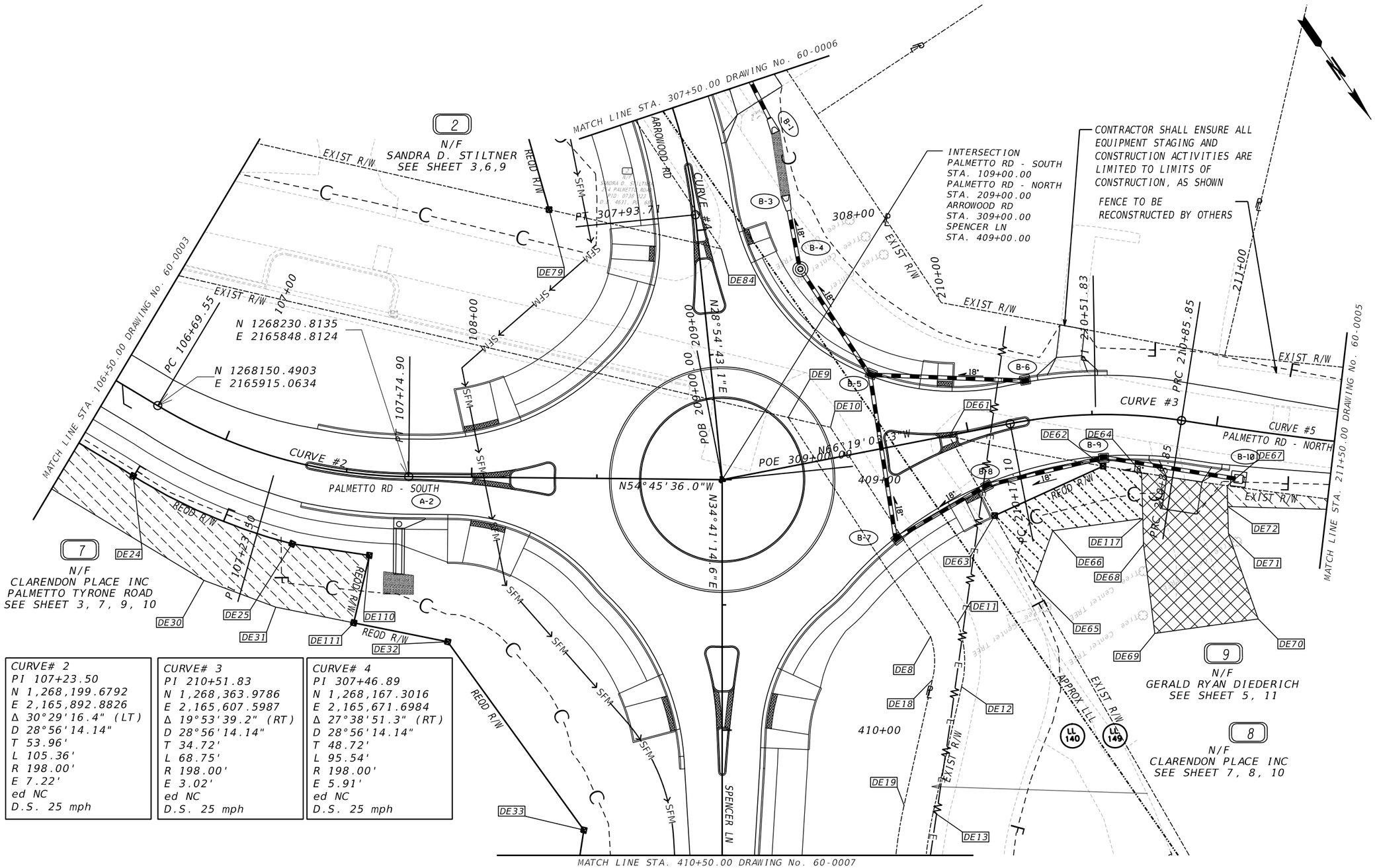
TOWN OF TYRONE

RIGHT OF WAY MAP

PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: 140
LAND DISTRICT: 7
GMD: 549
DATE 03/15/24 SH 03 OF 11

DRAWING No.
60-0003

GRWPLN:CE
11/05/2020



CURVE# 2	CURVE# 3	CURVE# 4
PI 107+23.50	PI 210+51.83	PI 307+46.89
N 1,268,199.6792	N 1,268,363.9786	N 1,268,167.3016
E 2,165,892.8826	E 2,165,607.5987	E 2,165,671.6984
Δ 30°29'16.4" (LT)	Δ 19°53'39.2" (RT)	Δ 27°38'51.3" (RT)
D 28°56'14.14"	D 28°56'14.14"	D 28°56'14.14"
T 53.96'	T 34.72'	T 48.72'
L 105.36'	L 68.75'	L 95.54'
R 198.00'	R 198.00'	R 198.00'
E 7.22'	E 3.02'	E 5.91'
ed NC	ed NC	ed NC
D.S. 25 mph	D.S. 25 mph	D.S. 25 mph

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

DATE	REVISIONS
08-19-24	REMOVED PARCEL 3 AND 4; REDUCED DRIVEWAY LENGTH FOR PARCEL 9.

POND
Architects ▪ Engineers ▪ Planners

SCALE IN FEET
0 20 40 80

TOWN OF TYRONE

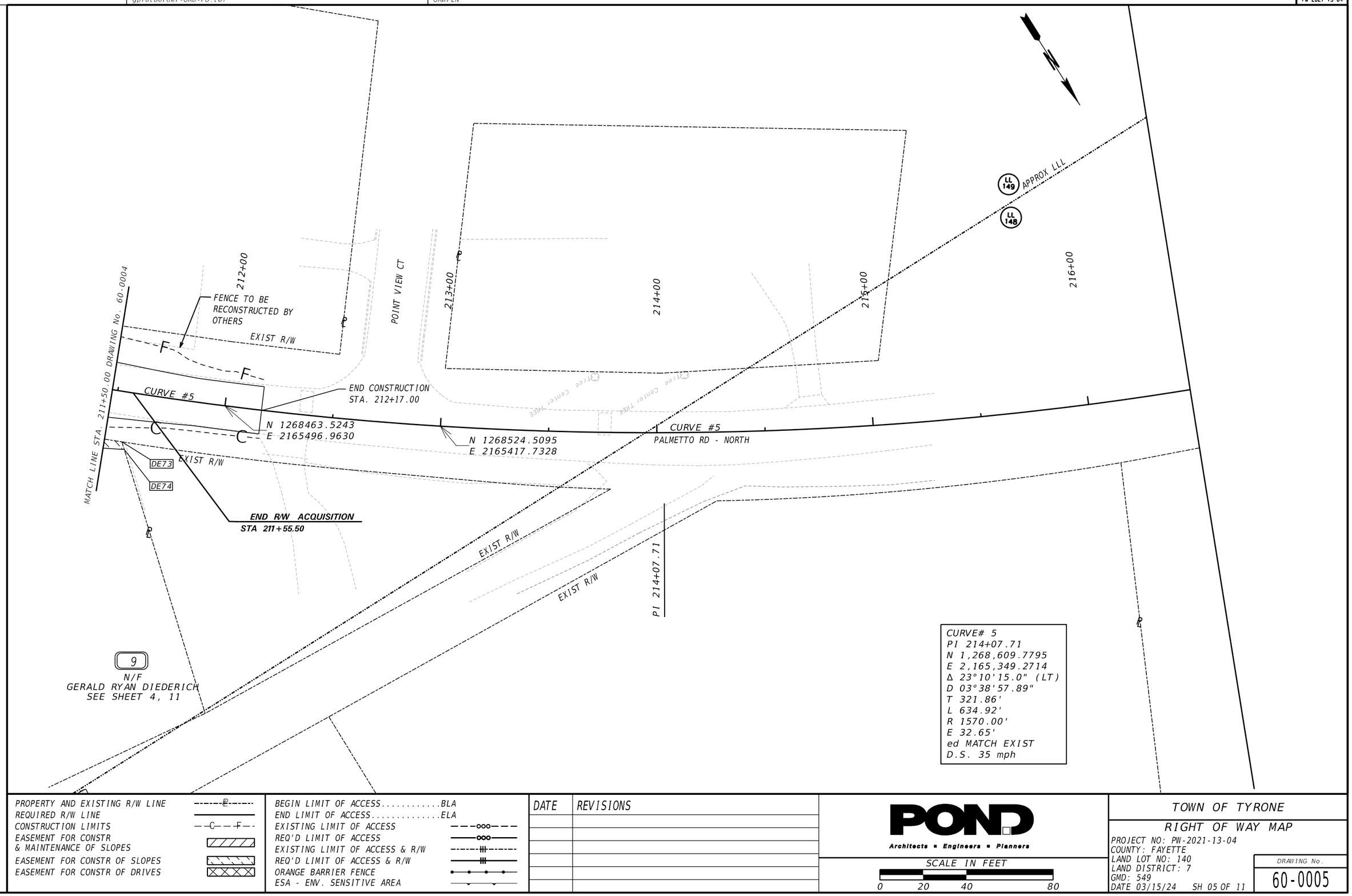
RIGHT OF WAY MAP

PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: 140, 149
LAND DISTRICT: 7
GMD: 549
DATE 03/15/24 SH 04 OF 11

DRAWING No.
60-0004

GRWPLN-CE
11/05/2020

11/12/2024	GPLOT-ORD	1210771_60.dgn	PROJECT NUMBER
Sean.Bush	gplotborder-ORD-PO_tbl	GRWPLN	PW-2021-13-04



CURVE# 5
PI 214+07.71
N 1,268,609.7795
E 2,165,349.2714
Δ 23°10'15.0" (LT)
D 03°38'57.89"
T 321.86'
L 634.92'
R 1570.00'
E 32.65'
ed MATCH EXIST
D.S. 35 mph

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

DATE	REVISIONS

POND
Architects ▪ Engineers ▪ Planners

SCALE IN FEET
0 20 40 80

TOWN OF TYRONE
RIGHT OF WAY MAP
PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: 140
LAND DISTRICT: 7
GMD: 549
DATE 03/15/24 SH 05 OF 11

DRAWING No.
60-0005

GRWPLN-CE
11/05/2020

N

CURVE# 4
PI 307+46.89
N 1,268,167.3016
E 2,165,671.6984
Δ 27°38'51.3" (RT)
D 28°56'14.14"
T 48.72'
L 95.54'
R 198.00'
E 5.91'
ed NC
D.S. 25 mph

303+00 | 304+00 | 305+00 | 306+00 | 307+00

EXIST R/W | EXIST R/W

POB 302+18.73

N00°54'14.4"E

N01°15'51.8"E

N 1268118.5928
E 2165670.6233

N 1268020.4518
E 2165668.4572

ARROWOOD RD

CURVE #4

PI 307+46.89

B-6

18°

APPROX LLL

LL 149

LL 140

EXIST R/W

EXIST R/W

BEGIN CONSTRUCTION - ARROWOOD RD
STA. 306+50.00

LIMIT OF R/W ACQUISITION
STA 306+50.78

2
N/F
SANDRA D. STILTNER
SEE SHEET 3, 4, 9

SFM | SFM | SFM

DE76 | DE75

REQD R/W

PC 306+98.16

MATCH LINE STA. 307+50.00 DRAWING No. 60-0004

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	EXISTING LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING LIMIT OF ACCESS & R/W
EASEMENT FOR CONSTR OF DRIVES	REQ'D LIMIT OF ACCESS & R/W
	ORANGE BARRIER FENCE
	ESA - ENV. SENSITIVE AREA

DATE	REVISIONS
08-19-24	REMOVED PARCEL 3 AND PARCEL 4.

POND
Architects ▪ Engineers ▪ Planners

SCALE IN FEET
0 20 40 80

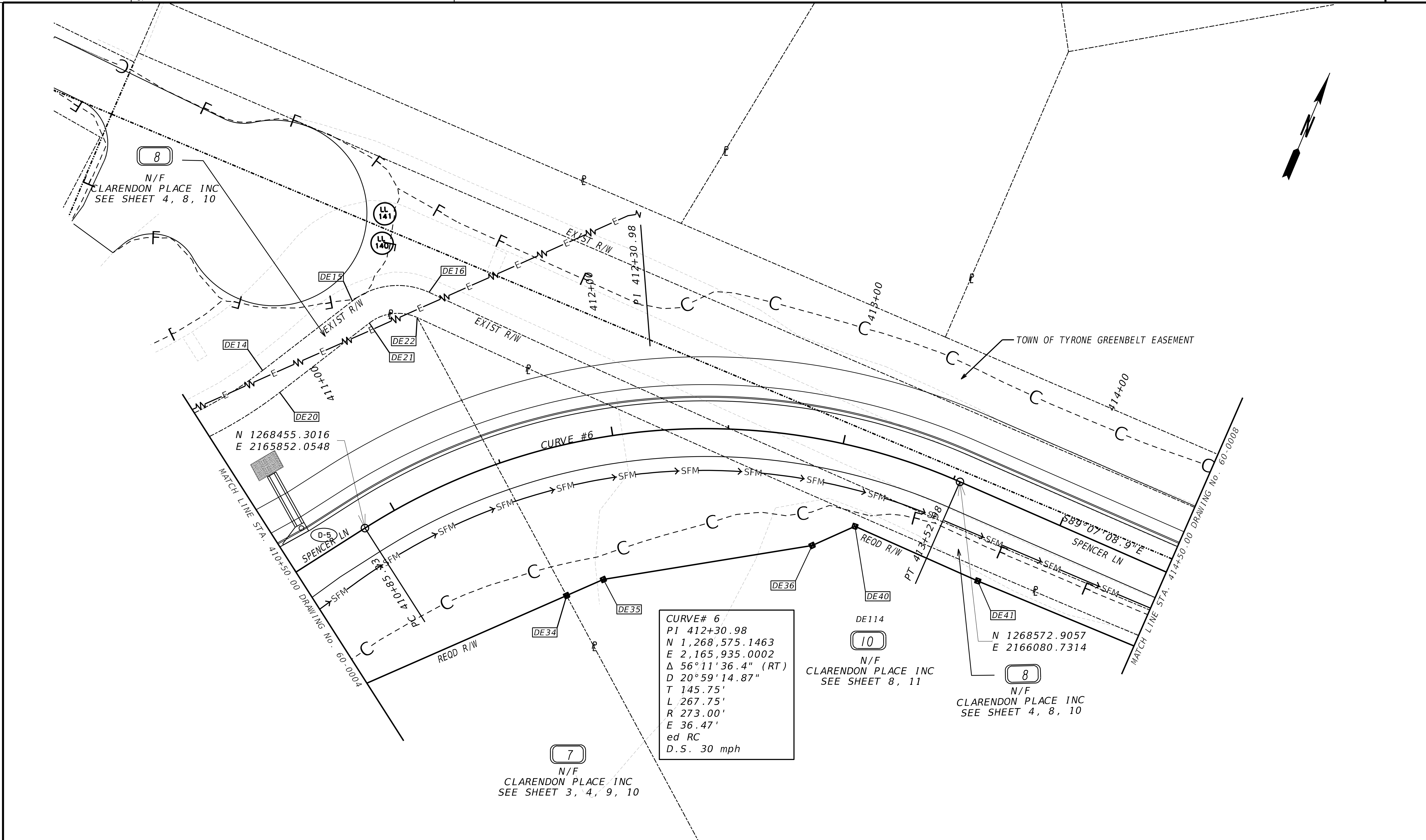
TOWN OF TYRONE

RIGHT OF WAY MAP

PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: 140, 149
LAND DISTRICT: 7
GMD: 549
DATE 03/15/24 SH 06 OF 11

DRAWING No.
60-0006

GRWPLN-CE
11/05/2020



CURVE# 6
PI 412+30.98
N 1,268,575.1463
E 2,165,935.0002
Δ 56°11'36.4" (RT)
D 20°59'14.87"
T 145.75'
L 267.75'
R 273.00'
E 36.47'
ed RC
D.S. 30 mph

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS............BLA
END LIMIT OF ACCESS..............ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

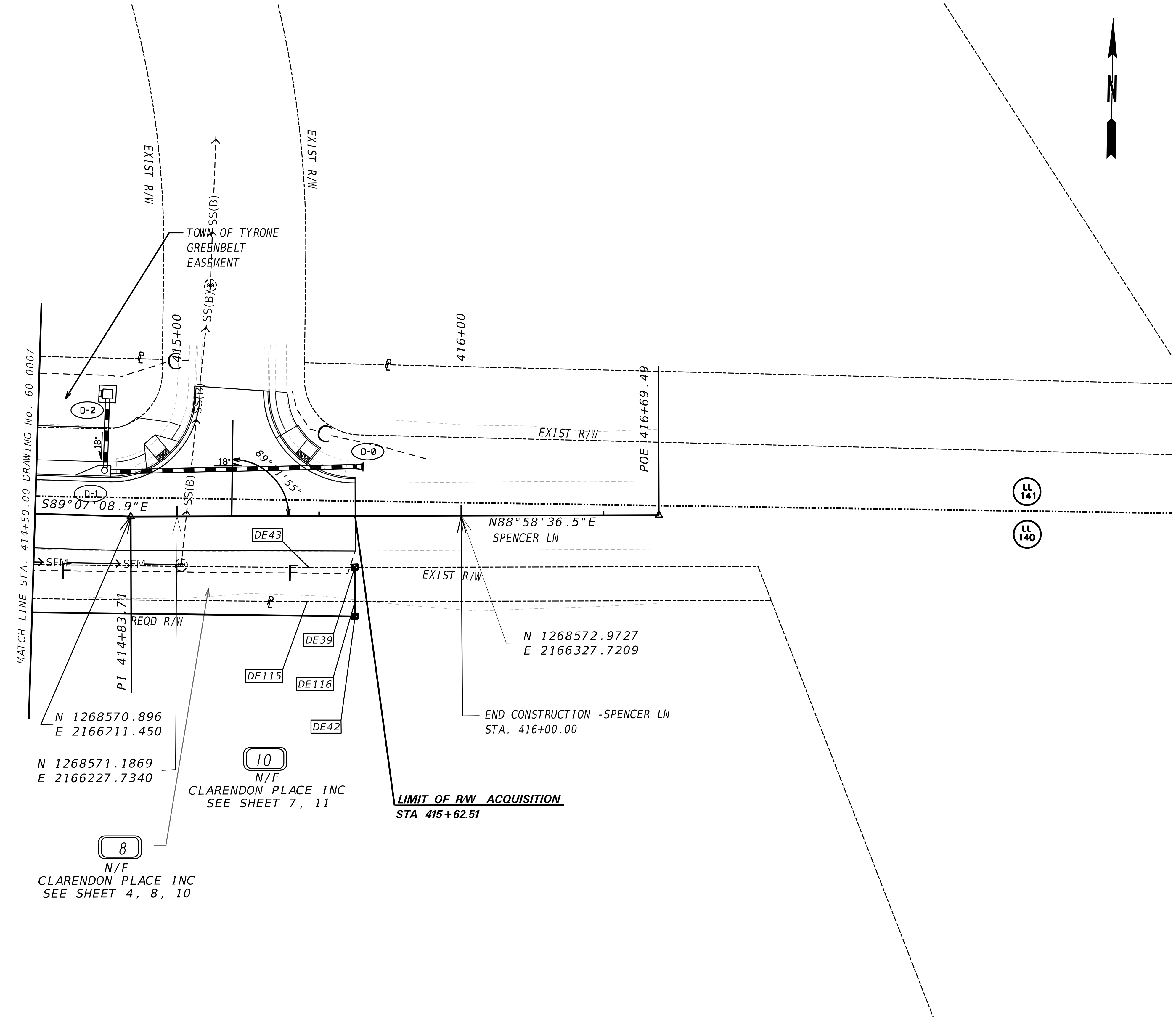
DATE	REVISIONS

POND
Architects ▪ Engineers ▪ Planners

SCALE IN FEET
0 20 40 80

TOWN OF TYRONE
RIGHT OF WAY MAP
PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: 140
LAND DISTRICT: 7
GMD: 549
DATE 03/15/24 SH 07 OF 11

DRAWING No.
60-0007



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
EXISTING LIMIT OF ACCESS	
REQ'D LIMIT OF ACCESS	
EXISTING LIMIT OF ACCESS & R/W	
REQ'D LIMIT OF ACCESS & R/W	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA	

DATE	REVISIONS

POND
Architects ▪ Engineers ▪ Planners

SCALE IN FEET
0 20 40 80

TOWN OF TYRONE
RIGHT OF WAY MAP
PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: 140, 141
LAND DISTRICT: 7
GMD: 549
DATE 03/15/24 SH 08 OF 11

DRAWING No.
60-0008

****
PARCEL 1
DE110
EASM'T. FOR CONST. OF SLOPES
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE44	29.592	L	101+43.562	Palmetto Rd - South
	17.685		S48°34'10.59"W	
DE45	47.276	L	101+43.804	Palmetto Rd - South
	105.523		N41°25'49.41"W	
DE46	45.928	L	102+48.706	Palmetto Rd - South
	26.528		N42°06'41.09"W	
DE47	46.548	L	102+74.128	Palmetto Rd - South
	56.239		N39°34'31.98"W	
DE48	47.458	L	103+27.999	Palmetto Rd - South
	33.280		N31°07'47.35"W	
DE49	44.427	L	103+59.778	Palmetto Rd - South
	17.208		N17°41'14.81"W	
DE50	39.283	L	103+75.580	Palmetto Rd - South
	236.776		S42°13'45.18"E	
DE44	29.592	L	101+43.562	Palmetto Rd - South

REQD EASMT = 3448.32 SF
REQD EASMT = 0.079 ACRES
TOTAL LOT SIZE = 18.43 ACRES

****
PARCEL 2
DE120
REQ'D DRWY. EASM'T.
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE51	80.02	L	105+52.46	Palmetto Rd - South
	47.99		S64.813°W	
DE54	128.01	L	105+52.46	Palmetto Rd - South
	36.00		N25.187°W	
DE55	128.43	L	105+86.41	Palmetto Rd - South
	38.88		N64.813°E	
DE53	89.56	L	105+87.03	Palmetto Rd - South
	34.95		S42.515°E	
DE52	78.73	L	105+54.91	Palmetto Rd - South
	2.94		S0.952°W	
DE51	80.02	L	105+52.46	Palmetto Rd - South

REQD EASMT = 1598.92 SF
REQD EASMT = 0.037 ACRES

****
PARCEL 2
DE30
REQ'D R/W
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE76	22.258	R	306+62.000	Arrowood Rd
	145.060		N00°57'05.61"E	
DE84	8.906	L	308+08.250	Arrowood Rd
	70.498		S42°30'55.23"E	
DE79	57.696	R	307+82.536	Arrowood Rd
	98.724		S18°45'30.70"W	
DE75	40.565	R	306+62.000	Arrowood Rd
	18.307		N88°44'08.24"W	
DE76	22.258	R	306+62.000	Arrowood Rd

REQD R/W = 4379.424 SF
REQD R/W = 0.101 ACRES
REMAINDER = 0.90 +/- ACRE

****
PARCEL 6
DE16
EASM'T. FOR CONST. OF SLOPES
****

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE1	30.452	R	101+42.577	Palmetto Rd - South
	107.607		N42°17'09.50"W	
DE5	30.201	R	102+50.642	Palmetto Rd - South
	18.105		N47°47'52.61"E	
DE6	48.305	R	102+50.924	Palmetto Rd - South
	108.468		S40°04'15.88"E	
DE4	44.366	R	101+41.788	Palmetto Rd - South
	13.937		S51°01'52.25"W	
DE1	30.452	R	101+42.577	Palmetto Rd - South

REQD EASMT = 1729.86 SF
REQD EASMT = 0.040 ACRES
TOTAL LOT SIZE = 3.18 ACRES

DATE	REVISIONS	DATE	REVISIONS
08-19-24	REMOVED PARCEL 3 AND PARCEL 4.		

TOWN OF TYRONE

RIGHT OF WAY MAP

PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: N/A
LAND DISTRICT: N/A
GMD N/A
DATE 03/15/24 SH 09 OF 11

DRAWING No.
60-0009

PARCEL 7
DE17
EASM'T. FOR CONST. OF SLOPES

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE5	30.201 R	102+50.642	Palmetto Rd - South
	36.860	N42°12'07.39"W	
DE7	29.000 R	102+88.532	Palmetto Rd - South

ARC LENGTH = 273.40
CHORD BEAR = N31°47'45.13"W
LNTH CHORD = 272.61
RADIUS = 1041.00
DEGREE = 05°30'14.10"

DE118	29.000 R	105+69.545	Palmetto Rd - South
	106.091	N24°11'35.85"W	
DE24	29.227 R	106+74.854	Palmetto Rd - South

ARC LENGTH = 69.25
CHORD BEAR = N32°12'34.41"W
LNTH CHORD = 68.99
RADIUS = 232.26
DEGREE = 24°40'07.72"

DE25	31.992 R	107+34.791	Palmetto Rd - South
	31.196	N46°48'29.28"W	
DE110	32.119 R	107+61.661	Palmetto Rd - South
	27.648	N47°49'07.03"E	
DE111	59.480 R	107+58.428	Palmetto Rd - South
	31.719	S43°54'49.65"E	
DE31	58.071 R	107+33.978	Palmetto Rd - South
	30.609	S34°55'57.31"E	
DE30	55.637 R	107+10.258	Palmetto Rd - South
	189.081	S24°18'12.73"E	
DE29	49.716 R	105+30.425	Palmetto Rd - South

ARC LENGTH = 266.60
CHORD BEAR = S33°32'55.02"E
LNTH CHORD = 265.94
RADIUS = 1100.88
DEGREE = 05°12'16.41"

DE6	48.305 R	102+50.924	Palmetto Rd - South
	18.105	S47°47'52.61"W	
DE5	30.201 R	102+50.642	Palmetto Rd - South

REQD EASMT = 11079.08 SF
REQD EASMT = 0.254 ACRES

PARCEL 7
DE31
REQ'D R/W

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE7	29.000 R	102+88.532	Palmetto Rd - South
	618.341	N42°12'07.39"W	
DE9	36.170 L	109+26.102	Palmetto Rd - South
	104.270	N01°39'01.61"E	
DE8	77.354 R	209+69.703	Palmetto Rd - North

ARC LENGTH = 17.54
CHORD BEAR = N32°21'01.61"E
LNTH CHORD = 17.30
RADIUS = 30.41
DEGREE = 188°24'39.53"

DE18	83.893 L	409+79.911	Spencer Ln
	51.350	N47°22'26.61"E	
DE19	72.616 L	410+30.008	Spencer Ln

ARC LENGTH = 56.09
CHORD BEAR = N38°20'06.61"E
LNTH CHORD = 55.86
RADIUS = 180.06
DEGREE = 31°49'13.37"

DE20	69.062 L	410+85.648	Spencer Ln
	48.842	N29°28'03.61"E	
DE21	76.976 L	411+23.707	Spencer Ln

ARC LENGTH = 21.84
CHORD BEAR = N60°44'41.35"E
LNTH CHORD = 20.77
RADIUS = 20.00
DEGREE = 286°28'44.41"

DE22	71.132 L	411+39.386	Spencer Ln
	136.027	S51°00'04.39"E	
DE34	63.198 R	411+61.148	Spencer Ln
	104.154	S43°33'53.16"W	
DE33	55.186 R	410+39.917	Spencer Ln
	92.773	S01°10'49.11"E	
DE32	65.790 R	107+91.086	Palmetto Rd - South
	38.267	S43°54'49.65"E	
DE111	59.480 R	107+58.428	Palmetto Rd - South
	27.648	S47°49'07.03"W	
DE110	32.119 R	107+61.661	Palmetto Rd - South
	31.196	S46°48'29.28"E	
DE25	31.992 R	107+34.791	Palmetto Rd - South

ARC LENGTH = 69.25
CHORD BEAR = S32°12'34.41"E
LNTH CHORD = 68.99
RADIUS = 232.26
DEGREE = 24°40'07.72"

DE24	29.227 R	106+74.854	Palmetto Rd - South
	106.091	S24°11'35.85"E	
DE118	29.000 R	105+69.545	Palmetto Rd - South

ARC LENGTH = 273.40
CHORD BEAR = S31°47'45.13"E
LNTH CHORD = 272.61
RADIUS = 1041.00
DEGREE = 05°30'14.10"

DE7	29.000 R	102+88.532	Palmetto Rd - South

REQD R/W = 67009.063 SF
REQD R/W = 1.538 ACRES
REMAINDER = 3.9 ACRES

PARCEL 8
DE69
REQ'D R/W

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10	47.981 L	308+79.143	Spencer Ln
	93.140	N01°39'01.61"E	
DE11	93.989 L	409+57.224	Spencer Ln

ARC LENGTH = 25.90
CHORD BEAR = N31°08'42.61"E
LNTH CHORD = 25.50
RADIUS = 42.41
DEGREE = 135°05'58.89"

DE12	95.564 L	409+82.675	Spencer Ln
	51.210	N47°22'26.61"E	
DE13	84.317 L	410+32.635	Spencer Ln

ARC LENGTH = 52.33
CHORD BEAR = N38°19'44.61"E
LNTH CHORD = 52.12
RADIUS = 168.05
DEGREE = 34°05'40.14"

DE14	81.007 L	410+84.650	Spencer Ln
	48.854	N29°28'03.61"E	
DE15	88.661 L	411+21.624	Spencer Ln

ARC LENGTH = 34.94
CHORD BEAR = N60°44'35.31"E
LNTH CHORD = 33.23
RADIUS = 32.00
DEGREE = 179°02'57.52"

DE16	79.576 L	411+46.066	Spencer Ln

ARC LENGTH = 436.26
CHORD BEAR = S89°14'54.23"E
LNTH CHORD = 436.23
RADIUS = 9860.51
DEGREE = 00°34'51.83"

DE43	18.040 R	415+46.276	Spencer Ln
	16.245	N89°00'57.61"E	
DE39	18.051 R	415+62.520	Spencer Ln
	11.995	S00°59'02.39"E	
DE116	30.046 R	415+62.512	Spencer Ln
	16.804	S89°00'57.61"W	
DE115	30.034 R	415+45.708	Spencer Ln

ARC LENGTH = 436.34
CHORD BEAR = N89°14'48.39"W
LNTH CHORD = 436.30
RADIUS = 9880.80
DEGREE = 00°34'47.53"

DE22	71.132 L	411+39.386	Spencer Ln

ARC LENGTH = 21.84
CHORD BEAR = S60°44'41.35"W
LNTH CHORD = 20.77
RADIUS = 20.00
DEGREE = 286°28'44.41"

DE21	76.976 L	411+23.707	Spencer Ln
	48.842	S29°28'03.61"W	
DE20	69.062 L	410+85.648	Spencer Ln

ARC LENGTH = 56.09
CHORD BEAR = S38°20'06.61"W
LNTH CHORD = 55.86
RADIUS = 180.06
DEGREE = 31°49'13.37"

DE19	72.616 L	410+30.008	Spencer Ln
	51.350	S47°22'26.61"W	
DE18	83.893 L	409+79.911	Spencer Ln

ARC LENGTH = 17.54
CHORD BEAR = S32°21'01.61"W
LNTH CHORD = 17.30
RADIUS = 30.41
DEGREE = 188°24'39.53"

DE8	83.188 L	409+62.626	Spencer Ln
	104.270	S01°39'01.61"W	
DE9	36.170 L	308+75.214	Spencer Ln
	17.320	N42°12'07.39"W	
DE10	47.981 L	308+79.143	Spencer Ln

REQD R/W = 9069.083 SF
REQD R/W = 0.208 ACRES
REMAINDER = 0.04 +/- ACRE

DATE	REVISIONS	DATE	REVISIONS

TOWN OF TYRONE
RIGHT OF WAY MAP
PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: N/A
LAND DISTRICT: N/A
GMD N/A
DATE 03/15/24 SH 10 OF 11
DRAWING No. 60-0010

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************************************************************
PARCEL 9
DE124
REQ'D R/W
************************************************************
  PNT       OFFSET/        STATION/         ALIGNMENT
              DIST         BEARING
------------------------------------------------------------
    DE61     0.291  R    209+92.265         Palmetto Rd - North
ARC LENGTH = 62.55
CHORD BEAR = N44°18'24.58"W
LNTH CHORD = 62.54
    RADIUS = 1610.79
    DEGREE = 03°33'25.22"
    DE62    20.607  R    210+54.317         Palmetto Rd - North
            47.548       S79°51'16.69"E
    DE63    34.860  R    210+04.022         Palmetto Rd - North
            36.514       S04°53'57.59"W
    DE61     0.291  R    209+92.265         Palmetto Rd - North
  REQD R/W  =  851.78   SF
  REQD R/W  =  0.020    ACRES
REMAINDER   = 0.27 +/- ACRE

************************************************************
PARCEL 9
DE131
EASM'T. FOR CONST. OF SLOPES
************************************************************
  PNT       OFFSET/        STATION/         ALIGNMENT
              DIST         BEARING
------------------------------------------------------------
    DE63    34.860  R    210+04.022         Palmetto Rd - North
            47.548       N79°51'16.69"W
    DE62    20.607  R    210+54.317         Palmetto Rd - North
            15.628       N45°41'49.73"W
    DE64    22.603  R    210+71.721         Palmetto Rd - North
            18.293       N33°13'54.20"E
   DE117    40.775  R    210+74.231         Palmetto Rd - North
            36.184       S63°06'32.88"E
    DE66    45.006  R    210+28.250         Palmetto Rd - North
            22.601       N54°25'06.15"E
    DE65    64.674  R    210+14.162         Palmetto Rd - North
            31.492       S04°53'57.59"W
    DE63    34.860  R    210+04.022         Palmetto Rd - North
REQD EASMT  =  1185.32   SF
REQD EASMT  =  0.027    ACRES

************************************************************
PARCEL 9
DE139
REQ'D DRWY. EASM'T.
************************************************************
  PNT       OFFSET/        STATION/         ALIGNMENT
              DIST         BEARING
------------------------------------------------------------
    DE64    22.603  R    210+71.721         Palmetto Rd - North
ARC LENGTH = 34.54
CHORD BEAR = N46°35'22.05"W
LNTH CHORD = 34.54
    RADIUS = 1610.79
    DEGREE = 03°33'25.22"
    DE67    23.102  R    211+07.570         Palmetto Rd - North
            19.057       N33°13'54.20"E
    DE71    41.898  R    211+10.650         Palmetto Rd - North
            36.147       N15°29'21.69"E
    DE70    74.136  R    211+26.419         Palmetto Rd - North
            41.683       S63°13'14.31"E
    DE69    85.635  R    210+88.292         Palmetto Rd - North
            35.782       S27°27'49.56"W
    DE68    51.072  R    210+75.931         Palmetto Rd - North
            10.379       S33°13'54.20"W
   DE117    40.775  R    210+74.231         Palmetto Rd - North
            18.293       S33°13'54.20"W
    DE64    22.603  R    210+71.721         Palmetto Rd - North
REQD EASMT  =  2159.58   SF
REQD EASMT  =  0.050    ACRES
************************************************************
PARCEL 9
DE144
EASM'T. FOR CONST. OF SLOPES
************************************************************
  PNT       OFFSET/        STATION/         ALIGNMENT
              DIST         BEARING
------------------------------------------------------------
    DE67    23.102  R    211+07.570         Palmetto Rd - North
ARC LENGTH = 48.64
CHORD BEAR = N48°04'07.96"W
LNTH CHORD = 48.64
    RADIUS = 1610.79
    DEGREE = 03°33'25.22"
    DE73    23.121  R    211+55.503         Palmetto Rd - North
             3.726       N15°10'04.51"E
    DE74    26.474  R    211+57.102         Palmetto Rd - North
            49.301       S53°45'21.18"E
    DE72    31.295  R    211+08.921         Palmetto Rd - North
             8.308       S33°13'54.20"W
    DE67    23.102  R    211+07.570         Palmetto Rd - North
REQD EASMT  =  279.45   SF
REQD EASMT  =  0.006    ACRES

************************************************************
PARCEL 10
DE32
REQ'D R/W
************************************************************
  PNT       OFFSET/        STATION/         ALIGNMENT
              DIST         BEARING
------------------------------------------------------------
    DE22    71.132  L    411+39.386         Spencer Ln
ARC LENGTH = 436.34
CHORD BEAR = S89°14'48.39"E
LNTH CHORD = 436.30
    RADIUS = 9880.80
    DEGREE = 00°34'47.53"
   DE115    30.034  R    415+45.708         Spencer Ln
            16.804       N89°00'57.61"E
   DE116    30.046  R    415+62.512         Spencer Ln
             5.261       S00°59'02.39"E
    DE42    35.306  R    415+62.508         Spencer Ln
           186.525       S89°49'59.52"W
    DE41    36.079  R    413+77.144         Spencer Ln
            57.906       N88°46'27.55"W
    DE40    33.344  R    413+14.416         Spencer Ln
            20.184       S43°11'00.48"W
    DE36    45.678  R    412+95.726         Spencer Ln
            91.123       S57°58'56.10"W
    DE35    60.372  R    411+83.261         Spencer Ln
            17.336       S43°33'53.16"W
    DE34    63.198  R    411+61.148         Spencer Ln
           136.027       N51°00'04.39"W
    DE22    71.132  L    411+39.386         Spencer Ln
  REQD R/W  =  10106.045   SF
  REQD R/W  =  0.232    ACRES
REMAINDER   =  +/- 14 ACRES
```

DATE	REVISIONS	DATE	REVISIONS

TOWN OF TYRONE

RIGHT OF WAY MAP

PROJECT NO: PW-2021-13-04
COUNTY: FAYETTE
LAND LOT NO: N/A
LAND DISTRICT: N/A
GMD N/A
DATE 03/15/24 SH 11 OF 11

DRAWING No.
60-0011