

LOCATION SKETCH - NOT TO SCALE

FUNCTIONAL CLASS:
URBAN MINOR ARTERIAL

THIS PROJECT IS 100% IN
FULTON COUNTY AND IS
100% IN CONG.DIST.NO.5.

COMMISSION DISTRICT 6

PROJECT DESIGNATION:
DESIGNED IN ENGLISH UNITS

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.

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.

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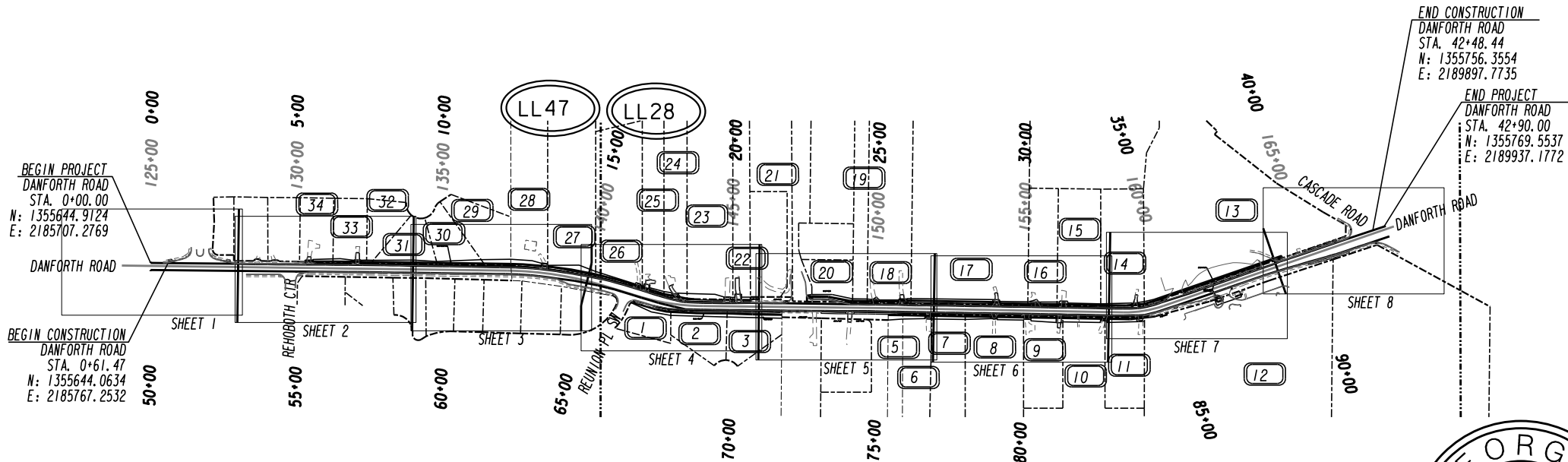
THE DATA,TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY
INDICATED THEREBY,WHETHER BY DRAWINGS OR NOTES,OR IN ANY OTHER MANNER,ARE BASED UPON
FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS, HOWEVER,THE
SAME ARE SHOWN AS INFORMATION ONLY,ARE NOT GUARANTEED,AND 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.



CITY OF SOUTH FULTON DEPARTMENT OF PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

FULTON COUNTY
PROJECT NO.T-260



PLANS PREPARED
BY:

DESIGN

PLANS COMPLETED 08-31-2022
REVISIONS

LENGTH OF PROJECT	Project No. T-260
	MILES
NET LENGTH OF ROADWAY	0.813
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.813
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.813

DRAWING No.

01-0001


DRAWING NO.	DESCRIPTION
1-0001	Cover
2-0001	Index
3-0001	Revision Summary
4-0001 to 4-0002	General Notes
5-0001 to 5-0003	Typical Sections
6-0001 to 6-0002	Summary of Quantities
7-0001	Quantities (Amendment)
8-0001	Quantities (Construction)
9-0001	Detailed Estimate
11-0001 to 11-0008	Construction Layout
13-0001 to 13-0008	Mainline Plan
15-0001 to 15-0007	Mainline Profile
17-0001 to 17-0005	Driveway Profiles
21-0001	Drainage Area Map
22-0001 to 22-0002	Drainage Profiles
23-0001 to 23-0019	Cross Sections
24-0000 to 24-0008	Utility Plans
26-0001 to 26-0010	Signing and Marking Plans
31-0001	Retaining Wall Envelopes
44-0001 to 44-0014	Water Line Relocation Plans
50-0001	Erosion Control Cover Sheet
51-0001 to 51-0006	ESPC General Notes
52-0001 to 52-0007	Erosion Control Legend and Uniform Code Sheet
53-0001	Erosion Control Drainage Area Map
54-0001 to 54-0024	BMP Location Details
55-0001	Watershed Map Site Monitoring Plan
56-0001 to 56-0011	Erosion Control Construction Standards and Details
	GEORGIA DETAILS
A-1	DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLLEY GUTTERS (7-11)
A-2	CONCRETE VALLEY GUTTER AT STREET INTERSECTION; 6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE; PLACING PAVEMENT ADJACENT TO GUTTER; ADDITIONAL PAVING AT STREET INTERSECTION; 4' CORRUGATED CONCRETE MEDIAN (7-11)
A-3	CONCRETE SIDEWALK DETAILS; CURB CUT (WHEELCHAIR) RAMPS (9-16)
A-4	DETECTABLE WARNING SURFACE; TRUNCATED DOME SIZE; SPACING AND ALIGNMENT REQUIREMENTS (6-09)
T01	SIGN PLATES (1-00)
T02	DETAILS FOR TYPICAL FRAMING (3-00)
T03a	Type 7, 8 and 9 SQUARE TUBE POST INSTALLATION DETAIL (7-02)
T05a	DETAILS OF REGULATORY SIGNS (SHEET 1 OF 2) (1-03)
T11a	DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY (9-16)

These plans have been prepared in accordance with the 2022 Construction Standards and Details Book and attached applicable revisions. The 2022 Construction Standards and Details Book is available at <http://mydocs.dot.gov/info/gdotpubs/ConstructionStandardsAndDetails/Forms/AllItems.aspx> Any revisions contained within this plan set supersede the 2022 Construction Standards and Details Book which they revise or in which there is a conflict.

DRAWING NO.	DESCRIPTION
	GEORGIA STANDARDS
GA. STD. 1011A	BRICK MANHOLES (10-81)
GA. STD. 1011A	PRECAST - PRECAST REINFORCED CONCRETE MANHOLE (6-75)
GA. STD. 1030D	CONCRETE AND METAL PIPE CULVERTS (SHEET 1 OF 3) (9-01)
GA. STD. 1030D	CONCRETE AND METAL PIPE CULVERTS (SHEET 2 OF 3) (9-01)
GA. STD. 1030D	CONCRETE AND METAL PIPE CULVERTS (SHEET 3 OF 3) (9-01)
GA. STD. 1033D	CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND GUTTER) (8-82)
GA. STD. 1033D	PRECAST CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND GUTTER) (9-82)
GA. STD. 1034D	CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND GUTTER IN SAGS OR LOW POINTS) (8-82)
GA. STD. 1034D	PRECAST CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND GUTTER IN SAGS OR LOW POINTS) (9-82)
GA. STD. 1040	CIRCULAR BASE UNITS AND RISERS FOR CATCH BASINS AND DROP INLETS (11-99)
GA. STD. 9003	FEDERAL AID AND STATE AID PROJECTS MARKERS; RIGHT OF WAY MARKERS; COUNTY LINE MARKER (4-06)
GA. STD. 9031L	RETAINING WALL TYPICAL SECTIONS, RAISING HEADWALL AND TYPICAL PIPE PLUG (SHEET 1 OF 2) (9-16)
	DETAILS OF: CATCH BASINS MODIFIED FOR DOUBLE GRATE, DROP INLET BASINS OR DROP INLET CONNECTION TO CONCRETE BOX CULVERT, CAPPING EXISTING DROP INLET (SHEET 2 OF 2) (9-16)
GA. STD. 9031R	PIPE HANDRAIL FOR RETAINING WALL- PIPE HANDRAIL FOR CONCRETE STEPS (10-88)
GA. STD. 9031U	JUNCTION BOXES (PRECAST OR BUILT-IN-PLACE) PIPE COLLARS, PIPE ELBOWS AND PIPE CURVED ALIGNMENT (7-85)
GA. STD. 9032B	CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE MEDIANS (1-21)
GA. STD. 9100	TRAFFIC CONTROL GENERAL NOTES, STANDARDS LEGEND, AND MISCELLANEOUS DETAILS (3-06)
GA. STD. 9102	TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE DEVIDED HIGHWAY (3-06)
	EROSION CONTROL CONSTRUCTION STANDARDS & DETAILS
EC-L1	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 1 OF 7) (3-17)
EC-L2	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 2 OF 7) (11-18)
EC-L3	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 3 OF 7) (3-17)
EC-L4	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 4 OF 7) (3-17)
EC-L5	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 5 OF 7) (3-17)
EC-L6	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 6 OF 7) (11-18)
EC-L7	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 7 OF 7) (3-17)
D-24A	Temporary Silt Fence (Sheet 1 of 4) (1-11)
D-24B	Temporary Silt Fence Berm Ditch, Installation, Brush Barrier (Sheet 2 of 4) (1-11)
D-24C	Temporary Silt Fence J-Hooks, Inlet Sediment Traps (Sheet 3 of 4) (1-11)
D-24D	Temporary Silt Fence Fabric Check Dam (Sheet 4 of 4) (7-15)
D-41	Construction Exit (11-20)
D-42	Inlet Sediment Traps (5-08)
D-43	Rock Filter Dam (4-16)
D-54	Sod Installation (4-16)
D-55A	Riprap Outlet Protection (Sheet 1 of 2) (4-16)
D-55B	Riprap Outlet Protection (Sheet 2 of 2) (4-16)
D-56	Stone Riprap & Sand Bag Temporary Check Dams (11-18)

[illegible]

PLANS PREPARED AND SUBMITTED BY:

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8/31/2022 lbeavln		2:44:40 PM gpilotborder-VBI-P0.tbl		04.dgn		CITY OF SOUTH FULTON			Project No. T-260	
<div>CONSTRUCTION NOTES</div> <div><div>1. A NOTICE OF INTENT (N.O.I.) IS REQUIRED FOR THIS PROJECT.</div><div>2. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE NOTICE OF INTENT (N.O.I.).</div><div>3. THIS PROJECT IS LOCATED 100 PERCENT WITHIN CONGRESSIONAL DISTRICT NO. 5.</div><div>4. THIS PROJECT IS LOCATED 100 PERCENT WITHIN FULTON COUNTY.</div><div>5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITION.</div><div>6. HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATE SYSTEM. SEE PLANS FOR LOCATIONS OF MONUMENTS USED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION LAYOUT. REFER TO SECTION 149 OF THE STANDARD SPECIFICATION AND SPECIAL PROVISIONS. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.</div><div>7. ALL COSTS FOR EARTHWORK AND GRADING SHALL BE PAID FOR AT THE PRICE BID FOR GRADING COMPLETE. THE CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING SUITABLE MATERIAL FOR THIS PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL. ALL FILL AREAS MUST BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR.</div><div>8. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION. THERE IS NO SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE CITY.</div><div>9. ALL SIDEWALKS AND CURB RAMPS WILL BE CONSTRUCTED TO MEET ALL REQUIREMENTS OF THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) AND "AMERICAN DISABILITY ACT OF 1991". SEE GDOT CONSTRUCTION DETAIL CURB CUT (WHEELCHAIR) RAMPS. RAMPS SHALL BE CONSTRUCTED AT ALL SIDE STREETS THAT INTERSECT THE SIDEWALK CONSTRUCTION.</div><div>10. THE COST OF REMOVAL AND DISPOSAL OF EXISTING SIDEWALK AND ANY OTHER MISC. ITEMS TO BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE AND NO ADDITIONAL PAYMENT WILL BE MADE.</div><div>11. ALL NEW CROSSWALK MARKINGS SHALL BE IN ACCORDANCE WITH CURRENT GDOT AND MUTCD STANDARDS. REMOVE ANY EXISTING CROSSWALK MARKINGS THAT ARE IN CONFLICT WITH THE NEW MARKINGS.</div><div>12. TOTAL PROJECT AREA IS 6.29 ACRES AND TOTAL DISTURBED AREA IS 1.77 ACRES.</div><div>13. MAINTAIN DEFINED AND UNOBSTRUCTED PATHWAYS FOR PEDESTRIANS TO TRAVEL WITHIN AND THROUGH THE PROJECT SITE.</div><div>14. IN AREAS WHERE PORTIONS OF EXISTING SIDEWALKS ARE TO REMAIN AND PROPOSED SIDEWALKS OR WHEEL CHAIR RAMPS OR CUT THRU'S ARE TO BE CONSTRUCTED, THE EXISTING SIDEWALKS SHALL BE REMOVED AT EVEN JOINTS BY SAWCUTTING OR BY OTHER MEANS TO PROVIDE A CLEAN STRAIGHT EDGE. THE COST FOR ALL THIS WORK SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE AND NO ADDITIONAL PAYMENT WILL BE MADE.</div><div>15. WHERE CURB AND GUTTER IS TO BE REMOVED TO PLACE WHEEL CHAIR RAMPS OR DRIVEWAYS THE EXISTING CURB AND GUTTER SHALL BE SAWCUT TO PROVIDE A CLEAN STRAIGHT EDGE. CONTRACTOR SHALL REMOVE CURB AND GUTTER BACK TO AN EXISTING JOINT.</div><div>16. 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 DRIVES. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. DRIVES SHALL BE CONSTRUCTED USING:<div>ASPHALT - ASPH CONC 9.5mm SUPERPAVE (140 LB/SY) GRADED AGGREGATE BASE, 6" CONCRETE - RESIDENTIAL - DRIVEWAY CONCRETE, 6" THICK</div></div><div>17. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE REPLACED 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 A PAVEMENT REMOVAL TO A NEAT LINE. THE COST FOR SAWED JOINTS, WHEN REQUIRED, SHALL BE INCLUDED IN PRICE BID FOR OTHER CONTRACT ITEMS, EXCEPT WHEN SAWING P.C.C. CONCRETE PAVEMENT.</div><div>18. FORM SIDEWALK CONCRETE FLUSH AROUND EXISTING INLET TOPS WITH JOINT SEAL FILLING THE GAP. THE COST OF JOINT SEAL SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE AND NO ADDITIONAL PAYMENT WILL BE MADE.</div></div> <div>CONSTRUCTION NOTES</div> <div><div>19. THE COST FOR INSTALLATION OF DETECTABLE WARNING SURFACES AND CUT THRU'S SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE AND NO ADDITIONAL PAYMENT WILL BE MADE.</div><div>20. ALL EXISTING PIPE SHALL REMAIN UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE AND NO ADDITIONAL PAYMENT WILL BE MADE.</div><div>21. ALL SIDEDRAIN PIPES SHALL BE 18" IN DIAMETER UNLESS OTHERWISE SHOWN.</div><div>22. THE CONTRACTOR SHALL ENSURE THE POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT LIMITED TO, PLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR RE-GRADING AS REQUIRED BY THE ENGINEER. EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE, NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.</div><div>23.WHERE WET SUBGRADE IS ENCOUNTERED AND WHERE IDENTIFIED BY THE ENGINEER, UNDERDRAIN PIPE WITH DRAINAGE AGGREGATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER TO AID IN DEWATERING THE SUBGRADE.</div><div>24. ALL AREAS WHERE THERE ARE EXISTING CATCH BASINS OR DRAINAGE INLETS WHERE THE SIDEWALK IS TO BE CONSTRUCTED; THE SIDEWALK SLOPE SHALL BE ADJUSTED TO TIE IN SMOOTHLY WITH THE EXISTING DRAINAGE STRUCTURES.</div><div>25. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OR AS DIRECTED BY THE ENGINEER.</div><div>26. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED SUFFICIENTLY TO RETARD DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE AND NO ADDITIONAL PAYMENT WILL BE MADE.</div><div>27. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRASH RECEPTACLES AT THE WORKSITES. THE RECEPTACLES SHALL BE EMPTIED AT LEAST ONCE A WEEK OR MORE OFTEN AS NEEDED. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL PAYMENT WILL BE MADE.</div><div>28. CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS CONCRETE BEFORE BACKFILLING AND FINAL GRADING.</div><div>29. STARTING WORK CONSTITUTES ACCEPTANCE OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.</div><div>30. ALL DIMENSIONS AND DETAILS OF EXISTING CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD MEASURED AND VERIFIED BEFORE PROCEEDING. NECESSARY FIELD CHECKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.</div><div>31. CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND EROSION, SUFFICIENT LIGHTS, SIGNS, AND TRAFFIC CONTROL METHODS SHALL BE INSTALLED FOR THE PROTECTION AND SAFETY OF THE PUBLIC AND MAINTAINED AS NECESSARY THROUGHOUT THE CONSTRUCTION PROCESS OF THE PROJECT. ALL SIGNING INCLUDING TRAFFIC CONTROL AND CONSTRUCTION SIGNING SHALL CONFORM TO THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. (2009 MUTCD)</div><div>32. LOCATION OF ALL CONSTRUCTION ITEMS SHALL BE FIELD VERIFIED BY CONTRACTOR AND APPROVED BY ENGINEER PRIOR TO PLACEMENT.</div><div>33. THERE IS NO SUITABLE PLACE FOR DISPOSAL OF REMOVE SLABS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS TO DISPOSE OF THE MATERIAL OFF SITE.</div><div>34. 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 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND GEORGIA DOT SPECIFICATION 150. ANY LANE CLOSURES MUST BE APPROVED BY AND COORDINATED WITH THE CITY OF SOUTH FULTON. LANE CLOSURES WILL REQUIRE PROPER LANE TAPERS AND ADVANCE WARNINGS PER GEORGIA DOT STANDARDS AND SHALL BE COMPLETED DURING THE HOURS SPECIFIED BY THE CITY OF SOUTH FULTON.</div><div>35. ALL SIGNING, MARKING, AND TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION.</div><div>36. CONTRACTOR IS REQUIRED TO MAINTAIN A MINIMUM OF 80 INCHES VERTICAL CLEARANCE ABOVE FINISHED SIDEWALK GRADE.</div><div>37. AT NO TIME DURING CONSTRUCTION OF THIS PROJECT SHALL THE US MAIL SERVICE BE INTERRUPTED TO THE PROPERTIES AFFECTED BY THE PROJECT. IF NECESSARY, THE CONTRACTOR SHALL ERECT TEMPORARY MAIL BOXES AND OTHER METHODS TO ASSURE SERVICE. UPON SUBSTANTIAL COMPLETION OF ALL GRADING, CURB, PIPE, AND SIDEWALK CONSTRUCTION, EACH MAILBOX SHALL BE PERMANENTLY RESET IN A LOCATION PRESCRIBED BY THE US POSTAL SERVICE.</div><div>38. CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING ADJACENT TO EXISTING UTILITY POLES. IN SOME LOCATIONS, CONTRACTOR MAY BE REQUIRED TO RESTRAIN THE POLE UNTIL BACKFILL IS PLACED.</div><div>39. CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNER MONUMENTATION AND BENCHMARKS WHENEVER POSSIBLE AND WILL BE RESPONSIBLE FOR THE COST OF REPLACING THEM IF DISTURBED OR DESTROYED. ALL MONUMENTS DISTURBED MUST BE RE-SET BY A LICENSED GEORGIA LAND SURVEYOR AUTHORIZED BY THE STATE TO PROVIDE PROFESSIONAL SERVICES.</div><div>40. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEORGIA DEPTARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS. (CURRENT EDITION)</div><div>41. ANY REFERENCE TO A CODE OR STANDARD SHALL BE UNDERSTOOD TO REFER TO THE LATEST EDITION AND/OR REVISION OF THAT CODE OR STANDARD UNLESS OTHERWISE NOTED.</div></div> <div><div>42. PRIOR TO CLEARING, THE CONTRACTOR SHALL OBTAIN WRITTEN VERIFICATION FROM ALL UTILITY COMPANIES THAT ABANDONED UTILITIES LEFT ON-SITE HAVE BEEN ISOLATED FROM THEIR SOURCE AND MAY BE REMOVED BY THE CONTRACTOR. IF UTILITIES ARE TO REMAIN AND HAVE BEEN LEFT ACTIVE, THE CONTRACTOR SHALL CAREFULLY PROTECT THEM AND IS RESPONSIBLE FOR RESTORING THEM TO THEIR PREVIOUS CONDITION OR BETTER IF DAMAGED.</div><div>43. ALL STRUCTURES TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED WITH A DEMOLITION PERMIT ABOVE AND BELOW GRADE. ABANDONED SERVICE LINES TO THE STRUCTURES SHALL ALSO BE REMOVED PER HEALTH DEPARTMENT REGULATIONS.</div><div>44. ALL VEGETATION (UNLESS OTHERWISE NOTED), EXISTING ASPHALT PAVEMENT, ORGANICS AND UNSUITABLE BEARING SOILS SHALL BE STRIPPED FROM THE SURFACE WITHIN THE CONSTRUCTION LIMITS AND DISPOSED OF OFF-SITE.</div><div>45. THE CONTRACTOR SHALL LEAVE THE SITE IN A CLEAN AND NEAT CONDITION. ALL DEBRIS, VEGETATION, LUMBER, CONCRETE, ETC., SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS OF THE STATE AND LOCAL GOVERNING AUTHORITIES.</div><div>46. CONTRACTOR SHALL HAVE THE LIMITS OF CLEARING AND BUFFERS STAKED WITH FLAGGING STRUNG BETWEEN ANGLE POINTS TO INSURE PROPER LOCATION OF TREE-SAVE FENCE AND PROPOSED IMPROVEMENTS.</div></div> <div>TRAFFIC NOTES</div> <div><div>1. THE CONTRACTORS' 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. FOR ADDITIONAL TRAFFIC CONTROL NOTES SEE GDOT STD. DRAWING NO. 9100. A MONTHLY UTILITY COORDINATION MEETING IS REQUIRED BY THE GC.</div><div>2. PRICE BID FOR TRAFFIC CONTROL 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", CURRENT EDITION AND/OR AS DIRECTED BY ENGINEER.</div><div>3. 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 MARKINS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' LATEST EDITION AND/OR AS DIRECTED BY THE ENGINEER.</div></div> <div>UTILITY NOTES</div> <div><div>1. ALL KNOWN UTILITIES HAVE BEEN SHOWN SCHEMATICALLY ON THE PLANS AND MAY NOT BE SHOWN ACCURATELY. HORIZONTALLY OR VERTICALLY. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEM RELOCATED AND/OR ADAPTED FOR THE TIE-INS. ALL UTILITY COORDINATION SHALL BE CLEARLY BEGUN, AND ALL UTILITIES MARKED PRIOR TO CONSTRUCTION.</div><div>2. THE CONTRACTOR (OR UTILITY) SHALL DISCONNECT AND SEAL OFF ABANDONED UTILITIES AND UTILITIES TO BE REMOVED PRIOR TO THE START OF DEMOLITION. UTILITIES SHALL BE DISCONNECTED BELOW EXISTING GRADE OR OUTSIDE OF CONTRACT LIMITS BY THE APPLICABLE PUBLIC UTILITY. ALL COSTS FOR THIS WORK SHALL BE BORNE BY THE CONTRACTOR.</div><div>3. UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411, FOR THE PURPOSE OF THE COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUB-SECTION 105.06 OF THE GADOT STANDARD SPECIFICATIONS, "COOPERATION WITH UTILITIES."</div></div> <div><div><div>GEORGIA811</div><div>Utilities Protection Center, Inc</div><div>Know what's Below. Call before you dig.</div></div><div>REVISION DATES</div><div>GENERAL NOTES</div><div>SIDEWALK IMPROVEMENTS ON DANFORTH ROAD</div><div><div>CHECKED:DATE:DRAWING No.</div><div>BACKCHECKED:DATE:</div><div>CORRECTED:DATE:</div><div>VERIFIED:DATE:</div><div>04-0001</div></div></div> <div><div>PLANS PREPARED AND SUBMITTED BY:</div><div><div><div>AEI</div><div>AMERICAN ENGINEERS, INC.</div><div>www.aei.cc</div></div><div><div>0 65 Aberdeen Drive Gadsden, KY 4044 (270) 651-7220</div><div>0 2500 Nelson Miller Parkway Louisville, KY 40223 (502) 245-3853</div></div><div><div>Branch Office</div><div>0 560 Acworth Landing Drive Acworth, GA 30001 (770) 421-8422</div><div>DESIGN CONSULTANT</div><div>PROFESSIONAL ENGINEERING</div></div></div></div>										

10/23/2015

GPLN

UTILITY OWNER	SERVICE
ATLANTA GAS LIGHT	GAS
FULTON COUNTY SEWER	WASTE WATER
CITY OF ATLANTA WATER	WATER
COMCAST COMMUNICATIONS CATV	CATV
AT&T	PHONE/INTERNET
GEORGIA POWER	ELECTRIC

Pipe Culvert Material Alternates For Piedmont/Blue Ridge Region											
TYPE OF PIPE INSTALLATION			C O N C R E T E	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC				
				ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY- ETHYLENE AASHTO M-252	CORR.POLY- ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949	
S T O R O S S D R A I N	LONGITUDINAL INTERSTATE AND TRAVEL BEARING			X							
	LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING			X				X	X	X	
	GRADE ≤ 10%	ADT < 250			X				X	X	X
		250 < ADT < 1500			X	*			X	X	X
		1500 < ADT < 15,000			X				X	X	X
		ADT > 15,000			X						
	GRADE > 10%	ADT < 250							X	X	X
		ADT > 250							X	X	X
SIDE DRAIN			X					X	X	X	
PERMANENT SLOPE DRAIN				X	X	X		X	X	X	
PERFORATED UNDERDRAIN				X	X	X	X	X		X	

x This type pipe can be used if the addition of Type "B" Coating (AASHTO M-190, Half Bifuminous Coated with Paved Invert) is utilized.

NOTES:

- Allowable materials are indicated by an "X".
- Structural requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P, whichever is applicable, and the Standard Specifications.
- Graded aggregate backfill shall be used in cross drain applications for all plastic pipes (AASHTO M-294, HDPE pipe; AASHTO M-304, PVC pipe; ASTM F-949, PVC pipe).
- The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.
- Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class V Concrete Pipe.
- Project specific pH and Resistivity values are entered into the respective boxes above to determine allowable pipe materials.

Rev. 03-22-10



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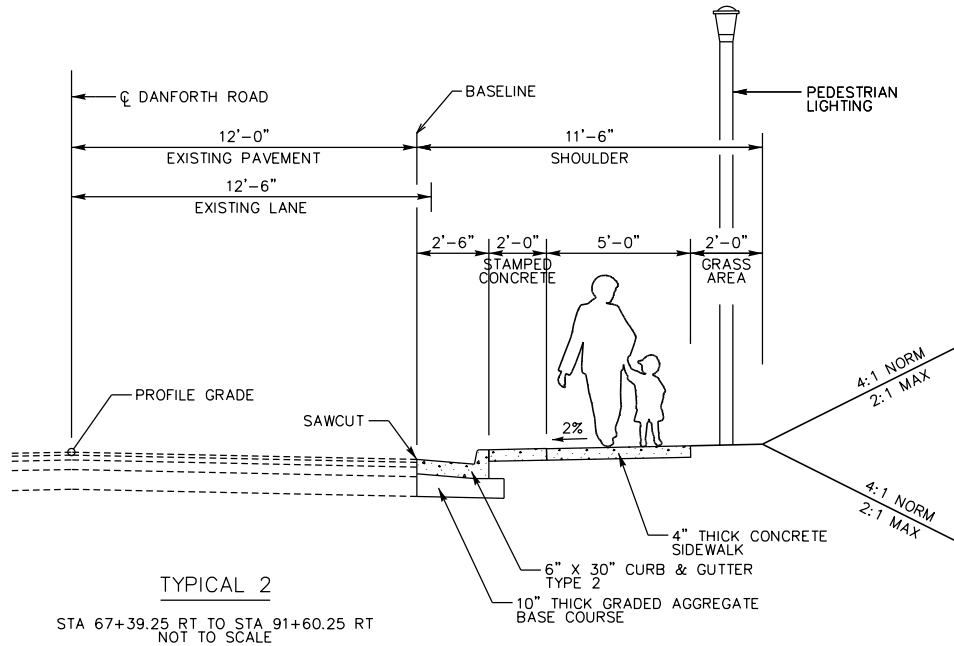
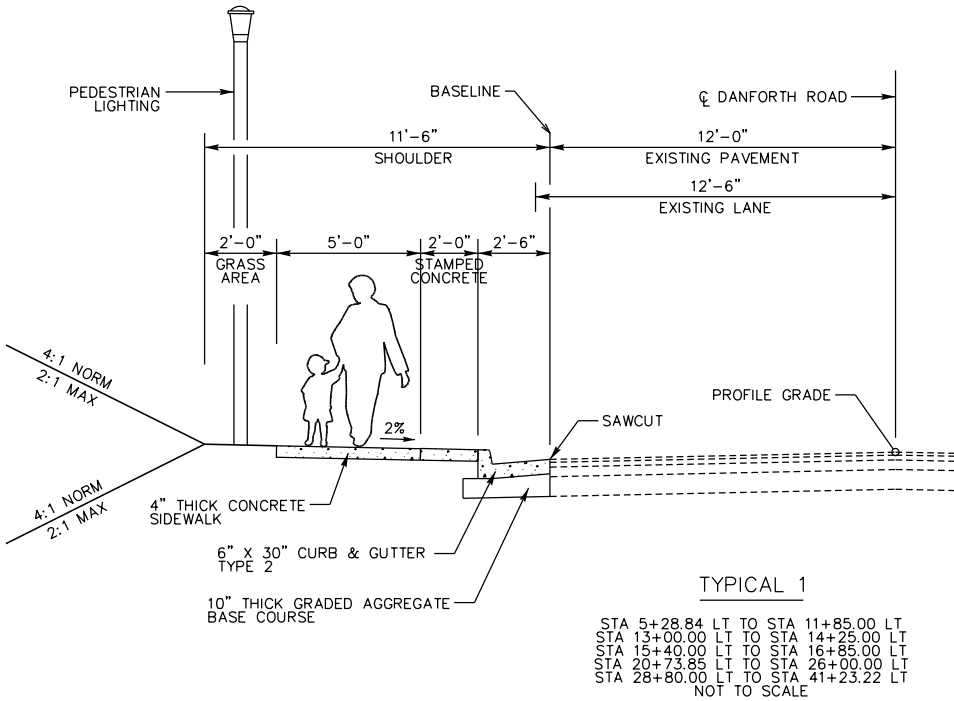
REVISION DATES

GENERAL NOTES

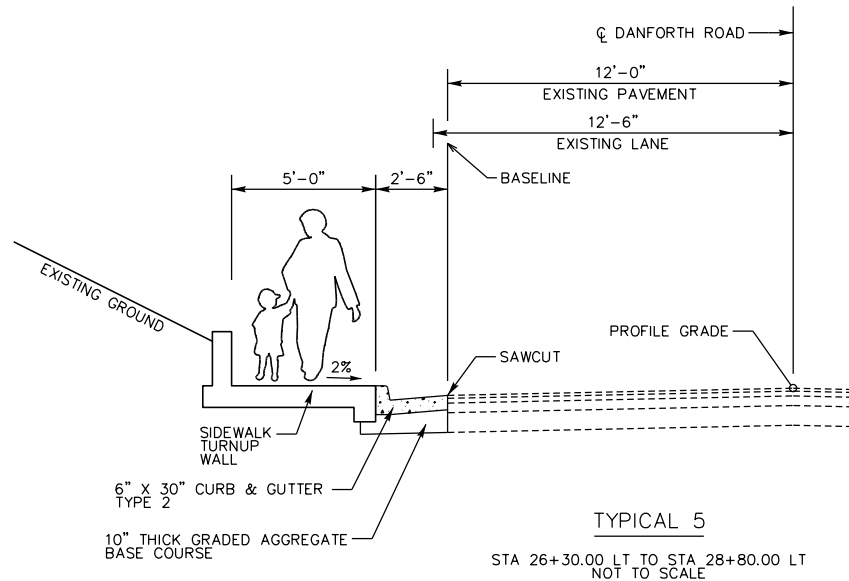
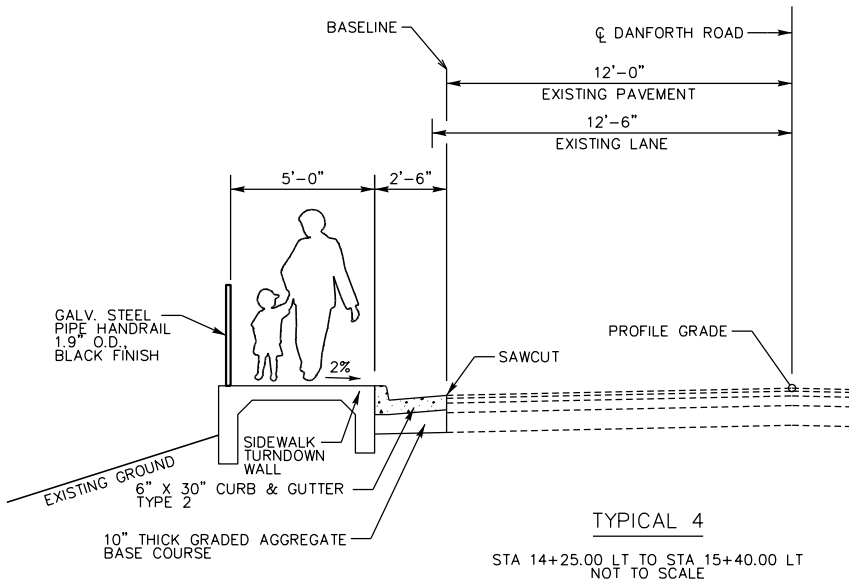
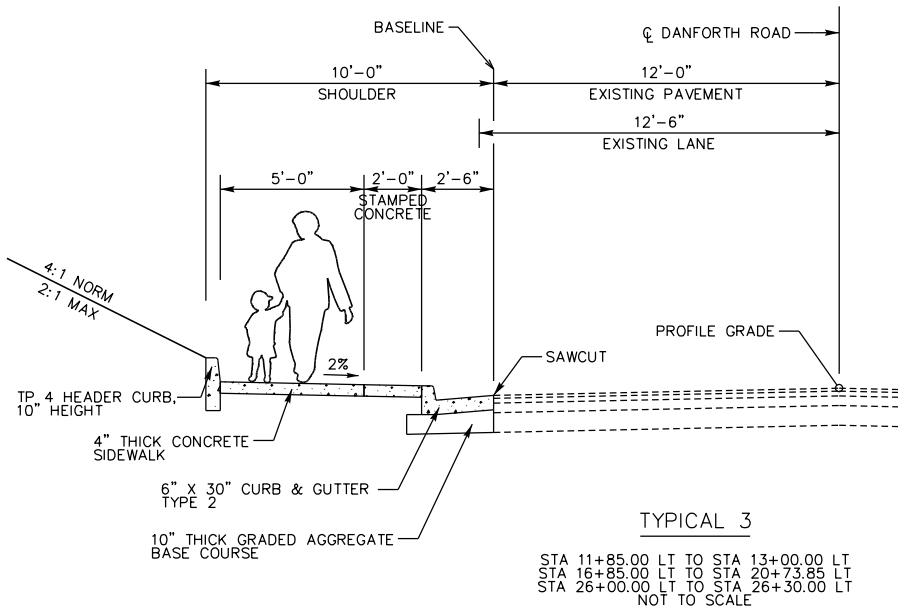
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

04-0002



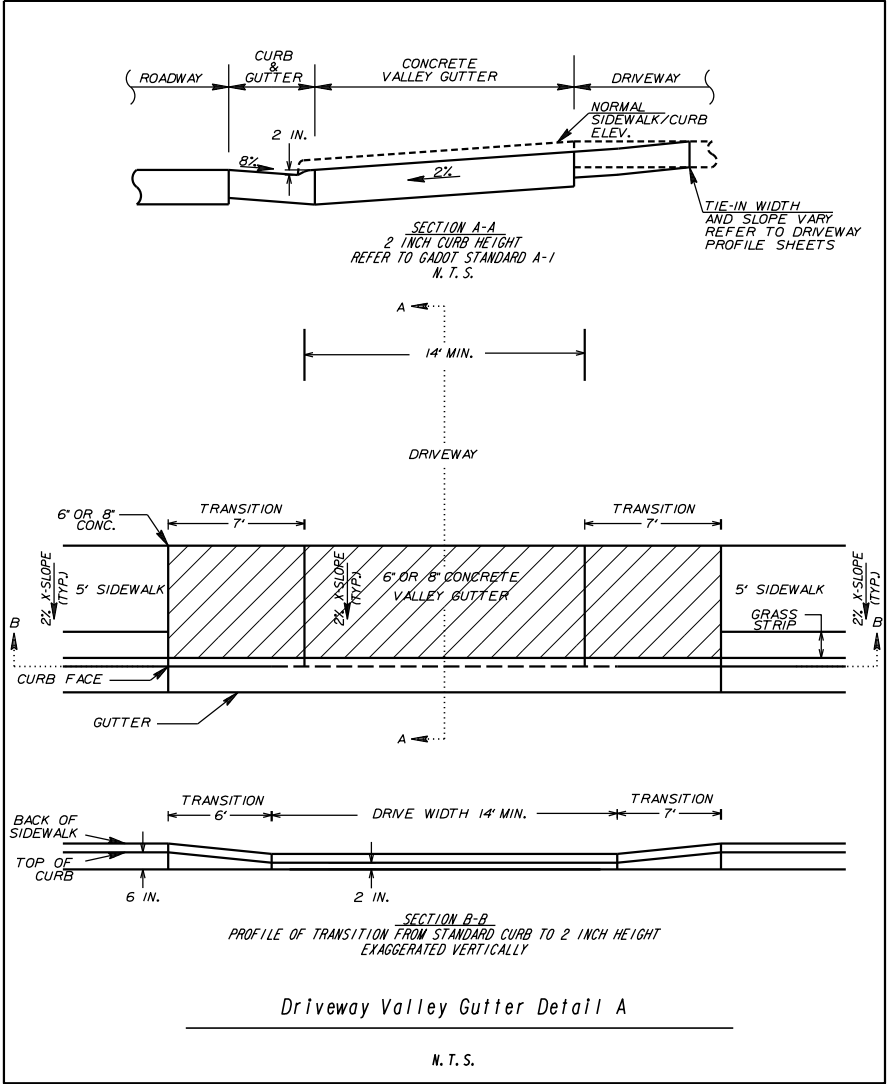
SEE 13 SERIES PLANS FOR DETAILS AND VARIATIONS FROM TYPICAL



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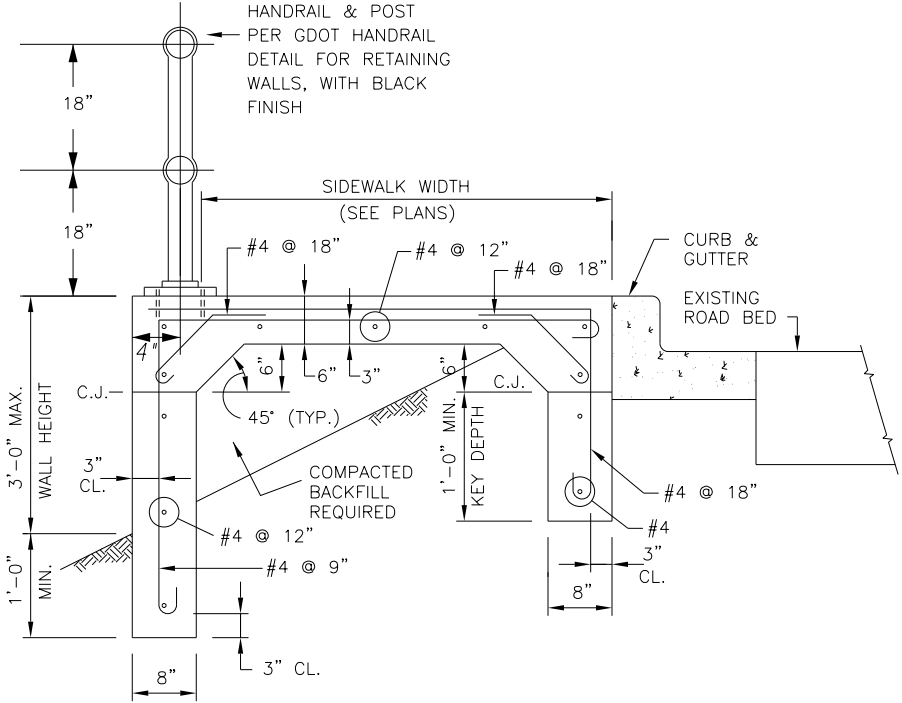
NOT TO SCALE

REVISION DATES				TYPICAL SECTIONS			
				SIDEWALK IMPROVEMENTS ON DANFORTH ROAD			
CHECKED:		DATE:		DRAWING No.			
BACKCHECKED:		DATE:		05-0001			
CORRECTED:		DATE:					
VERIFIED:		DATE:					



NOT TO SCALE

REVISION DATES			TYPICAL SECTIONS			
			SIDEWALK IMPROVEMENTS ON DANFORTH ROAD			
			CHECKED:	DATE:	DRAWING No.	
			BACKCHECKED:	DATE:	05-0002	
			CORRECTED:	DATE:		
			VERIFIED:	DATE:		



KEY DEPTH	WALL HEIGHT
1'-0"	1'-0"
1'-4"	2'-0"
1'-8"	3'-0" MAX.

- NOTE:
- CONTRACTOR MUST TEMPORARILY SUPPORT FOOTING WALLS UNTIL TOP SLAB IS IN PLACE.
 - CONTRACTOR TO PROVIDE COMPACTED BACKFILL UNDER SLAB

LOADS:
SURCHARGE = 0 PSF

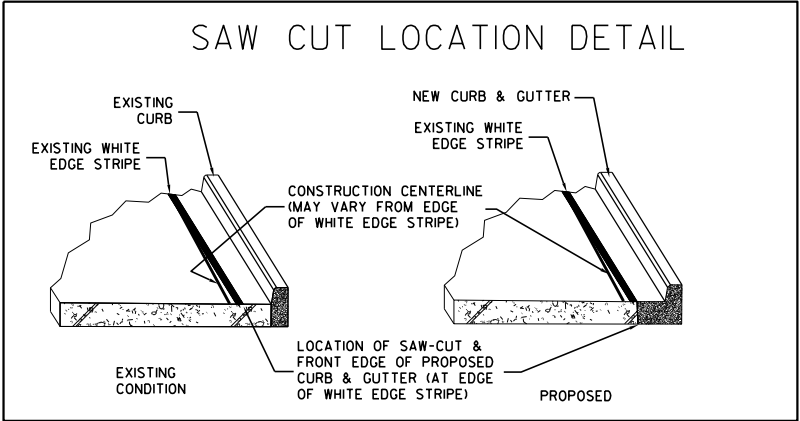
MATERIALS:
CONCRETE _____ f'c = 3,000 PSI

REINFORCING _____ fy = 60,000 PSI

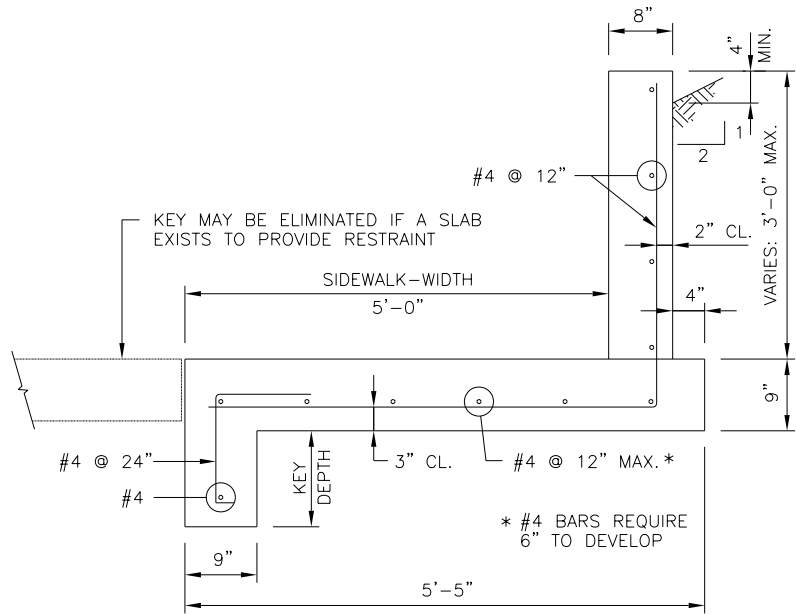
SOIL PROPERTIES:
SOIL WEIGHT = 110 PCF
Ø = 28°
C = 0
ALLOWABLE SOIL PRESSURE = 3,000 PSF

TURNDOWN SIDEWALK WALL DETAIL S1
N.T.S

10/18/2018



NOTE: COST INCLUDED IN PRICE BID FOR CURB AND GUTTER



KEY DEPTH	WALL HEIGHT
0'-0"	1'-9"
6" MIN.	2'-0"
0'-9"	2'-6"
1'-0"	3'-0"

LOADS:
SURCHARGE = 0 PSF

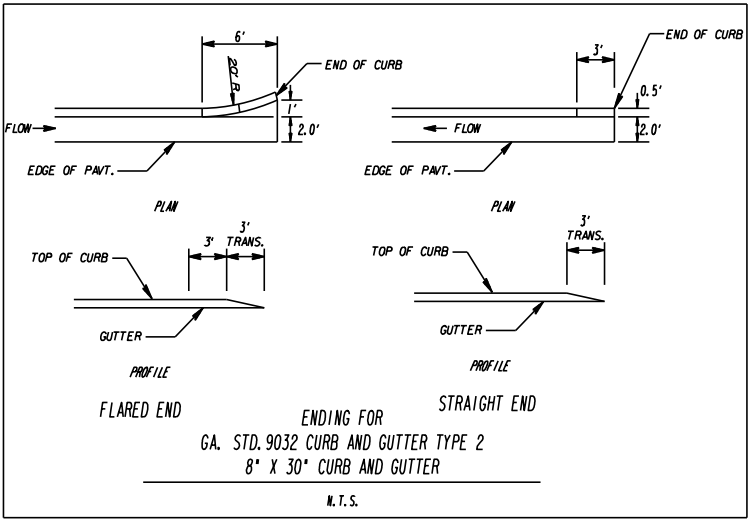
MATERIALS:
CONCRETE _____ f'c = 3,000 PSI

REINFORCING _____ fy = 60,000 PSI

SOIL PROPERTIES:
SOIL WEIGHT = 110 PCF
Ø = 28°
C = 0
ALLOWABLE SOIL PRESSURE = 3,000 PSF

TURNUP SIDEWALK WALL DETAIL S2
N.T.S

10/18/18



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(502) 245-3813

NOT TO SCALE

REVISION DATES

TYPICAL SECTIONS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

05-0003

SUMMARY OF QUANTITIES

ROADWAY ITEMS					
ITEMS	UNIT	SUB-TOTAL	DRIVEWAY	AS DIRECTED BY ENGINEER	TOTAL
GR AGGR BASE CRS, 6 INCH, INCL MATL	SY		117	33	150
GR AGGR BASE CRS, 10 INCH, INCL MATL	SY	1730		170	1900
RECYCLED ASPH CONC. 9.5 MM SUPERPAVE, GP 2, INC BITUM & H LIME	TN	10	8	2	20
RECYCLED ASPH CONC. 25 MM SUPERPAVE, GP 1 OR 2, INC BITUM & H LIME	TN	27		3	30
RECYCLED ASPH CONC. 19 MM SUPERPAVE, GP 2, INC BITUM & H LIME	TN	14		1	15
TACK COAT	GL	14		1	15
DRIVEWAY CONCRETE, 6 IN TK	SY		536	34	570
CONC. SIDEWALK, 4 IN.	SY	2248		102	2350
CONC VALLEY GUTTER, 6 IN	SY		587	38	625
CONCRETE HEADER CURB, 10 IN, TP 4	LF	435		40	475
CONC CURB & GUTTER, 6 IN X 30 IN, TP 2	LF	4998		252	5250
CONCRETE SIDEWALK, 4 IN, STAMPED CONC TILE, RED BRICK PTRN	SY	1101		49	1150
SAWED JOINTS IN EXIST PAVEMENTS - PCC	LF	30		5	35

ITEM	CLASS A CONCRETE, INCL REINF STEEL				GALV STEEL PIPE HANDRAIL - 1.9" O.D., BLACK FINISH			
	UNIT	SUB-TOTAL	AS DIRECTED BY ENGINEER	TOTAL	UNIT	SUB-TOTAL	AS DIRECTED BY ENGINEER	TOTAL
TURNDOWN WALL	CY	23.5	1.5	25	LF	115		115
TURNUP WALL	CY	58.8	4.2	63	LF		250	250
CONCRETE STAIRS	CY	1.4	0.6	2	LF			
TOTALS	CY	83.7	6.3	90	LF	115	250	365

TRAFFIC CONTROL	
LUMP	1

GRADING COMPLETE	
LUMP	1

FOUNDATION BACKFILL MATL, TP 11	
TOTAL (CY)	100

REM GATE -	
TOTAL (EA)	2

RESET GATE -	
TOTAL (EA)	2

RIGHT OF WAY MARKERS	
TOTAL (EA)	61

RIGHT OF WAY, PROPERTY LINE IRON PIN	
TOTAL (EA)	30

SUMMARY OF DRIVEWAY QUANTITIES						
LOCATION	WIDTH	6" VALLEY GUTTER	1 1/4" 9.5 MM ASPHALT CONC.	6 IN. GRADED AGGREGATE	6" DRIVEWAY CONC.	
STATION & SIDE	FEET	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	
05+43 LT	14	29				22
07+09 LT	14	29				42
13+51 LT	14	22	17	17		
16+78 LT	14	30	8	8		
17+06 LT	14	30				65
18+10 LT	14	29				52
19+92 LT	16	31				12
20+31 LT	14	22				118
25+11 LT	14	27				20
25+92 LT	14	29	35	35		
29+15 LT	14	29				43
30+51 LT	14	29				28
31+45 LT	14	22				12
33+92 LT	14	29				40
74+12 RT	14	22				41
76+82 RT	16	31	19	19		
79+07 RT	14	29	10	10		
80+19 RT	16	31	10	10		
81+32 RT	14	29				41
82+85 RT	14	29	9	9		
84+08 RT	14	29	9	9		
TOTAL		587	117	117		536

DRAINAGE ITEMS														
STRUCTURE NUMBER	LOCATION	STATION	CLASS B CONCRETE	18" STORM DRAIN PIPE, H1-10	UNDOR DRAIN PIPE INCL DRAINAGE AGGREGATE, 6 IN	CONCRETE - FLOWABLE FILL	5TH DUMPED RIP RAP, TP 3, 24 IN	PLASTIC FILTER FABRIC	RECONSTR CATCH BASIN, GROUP 1	RECONSTR DROP INLET, GROUP 1	ADJUST MANHOLE TO GRADE	CATCH BASIN, GP 1	CATCH BASIN, GP 1, ADDL DEPTH	COMMENTS
DANFORTH ROAD			CY	LIN.FT.	LIN.FT.	CY	SY	SY	EA	EA	EA	EA	LF	
A1	LT	0+64.10, 5.80'							1					
A2	LT	2+62.30, 9.15'		196								1	4	
B1	LT	15+11.56, 8.25'	1.04				7	7						
B2	LT	15+11.56, 4.66'		3								1	1	
B2-1	LT	15+69.50, 4.17'		56								1		
C1	RT	74+86.04, 13.10'									1			
C2	RT	74+38.18, 9.46'									1			
C4	RT	74+87.75, 4.67'										1	3	
C5	LT	24+87.65, 8.00'		34								1		
C5-1	LT	24+06.72, 7.97'										1	4	
C5-2	LT	23+30.30, 16.41'		74								1		
D1	RT	85+36.44, 3.29'										1	2	
D2	LT	35+08.29, 8.19'								1				
E1	RT	91+54.78, 4.19'							1					
E1-1	RT	90+22.01, 8.01'		131								1		
E2	LT	41+12.97, 4.55'							1					
E2-1	LT	40+64.61, 7.99'		46								1		
E2-2	LT	40+12.91, 7.97'		49								1		
SUBTOTAL			1.04	589			7	7	3	1	2	11	14	
AS DIRECTED BY ENGINEER			0.96	26	100	10								
TOTAL			2	615	100	10	7	7	3	1	2	11	14	

SUMMARY OF QUANTITIES

STATION	INSTL. NO.	HIGHWAY SIGNS									SQUARE TUBE POST									
		SIGN CODE	TP 1 MATL. REFL. SHEETING TP 9			TP 2 MATL. REFL. SHEETING TP 9			TP 1 MATL. REFL. SHEETING TP 11			TYPE 7			TYPE 8			TYPE 9		
			SIZE	QUANTITY	SQWARE FEET	SIZE	QUANTITY	SQWARE FEET	SIZE	QUANTITY	SQWARE FEET	LENGTH (FEET)	QUANTITY	TOTAL LENGTH	LENGTH (FEET)	QUANTITY	TOTAL LENGTH	LENGTH (FEET)	QUANTITY	TOTAL LENGTH
DANFORTH ROAD																				
STA 16+58 LT	1	R2-1	24 X 30	1	5							13	1	13						
STA 68+50 RT	2	R2-1	24 X 30	1	5							13	1	13						
STA 69+48 RT	3	R5-2	24 X 24	1	4							13	1	13						
STA 69+48 RT	3	SPEC. *1	24 X 8	1	1.33							N/A	N/A	N/A						
STA 19+70 LT	4	W1-2							30 X 30	1	6.25	13	1	13						
STA 77+24 RT	5	R2-1	24 X 30	1	5							13	1	13						
STA 28+87 LT	6	R2-1	24 X 30	1	5							13	1	13						
									30 X 30	1	6.25									
TOTALS			TP 1 MATL. TP 9 REFL.		25.33	TP 2 MATL. TP 9 REFL.			TP 1 MATL. TP 11 REFL.		12.5	TYPE 7 SUB LENGTH		78	TYPE 8 SUB LENGTH			TYPE 9 SUB LENGTH		
AS DIRECTED BY ENGINEER			TP 1 MATL. TP 9 REFL.		1.67	TP 2 MATL. TP 9 REFL.			TP 1 MATL. TP 11 REFL.		2.5	TYPE 7 SUB LENGTH		7	TYPE 8 SUB LENGTH			TYPE 9 SUB LENGTH		
PROJECT TOTALS			TP 1 MATL. TP 9 REFL.		27	TP 2 MATL. TP 9 REFL.			TP 1 MATL. TP 11 REFL.		15	TYPE 7 SUB LENGTH		85	TYPE 8 SUB LENGTH			TYPE 9 SUB LENGTH		

PAVEMENT MARKING ITEMS				
DESCRIPTION	UNIT	SUBTOTAL	AS DIRECTED BY ENGINEER	TOTAL
THERMOPLASTIC SOLID TRAF STRIPE, 5 IN. WHITE	LF	5982	618	6600
THERMOPLASTIC SOLID TRAF STRIPE, 8 IN. WHITE	LF	1070	80	1150

WATER LINE ITEMS			
DESCRIPTION	UNIT	SUBTOTAL	TOTAL
ADJUST WATER METER BOX TO GRADE	EACH	12	12
ADJUST WATER VALVE BOX TO GRADE	EACH	3	3
FIRE HYDRANT	EACH	2	2
WATER SERVICE LINE ¾ IN	LF	10	10
RELOCATE EXIST WATER METER, INCL BOX	EACH	2	2
REMOVE EXISTING FIRE HYDRANT	EACH	2	2
6 IN TAPPING SLEEVE AND VALVE FOR HYDRANT (INCIDENTAL)	EACH	2	2
6 IN DIP FOR FIRE HYDRANT ASSEMBLY (INCIDENTAL)	LF	20	20

REM SIGN	
TOTAL (EA)	1

RESET SIGN	
TOTAL (EA)	1

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY, BLACK POWDER COATED	
TOTAL (EA)	2

TEMPORARY EROSION CONTROL				
ITEMS	UNIT	SUB-TOTAL	AS DIRECTED BY ENGINEER	TOTAL
TEMPORARY GRASSING	AC	0.25		0.25
MULCH	TN	25		25
CONSTRUCT AND REMOVE CONSTRUCTION EXITS	EA	2		2
CONSTRUCT AND REMOVE ROCK FILTER DAM	EA	1		1
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	26		26
MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	637	38	675
MAINTENANCE OF CONSTRUCTION EXIT	EA	2		2
MAINTENANCE OF INLET SEDIMENT TRAP	EA	26		26
MAINTENANCE OF ROCK FILTER DAM	EA	1		1
MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH	EA	1		1
WATER QUALITY MONITORING AND SAMPLING	EA	4		4
WATER QUALITY INSPECTIONS	MO	12		12
TEMPORARY SILT FENCE, TYPE C	LF	1274	76	1350
BARRIER FENCE (ORANGE), 4 FT	EA		200	200
AGRICULTURAL LIME	TN	1		1
FERTILIZER MIXED GRADE	TN	0.15		0.15
FERTILIZER NITROGEN CONTENT	LB	25		25
SOD	SY	2420		2420

[illegible]

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[illegible]

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 **AET**

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Approved By:

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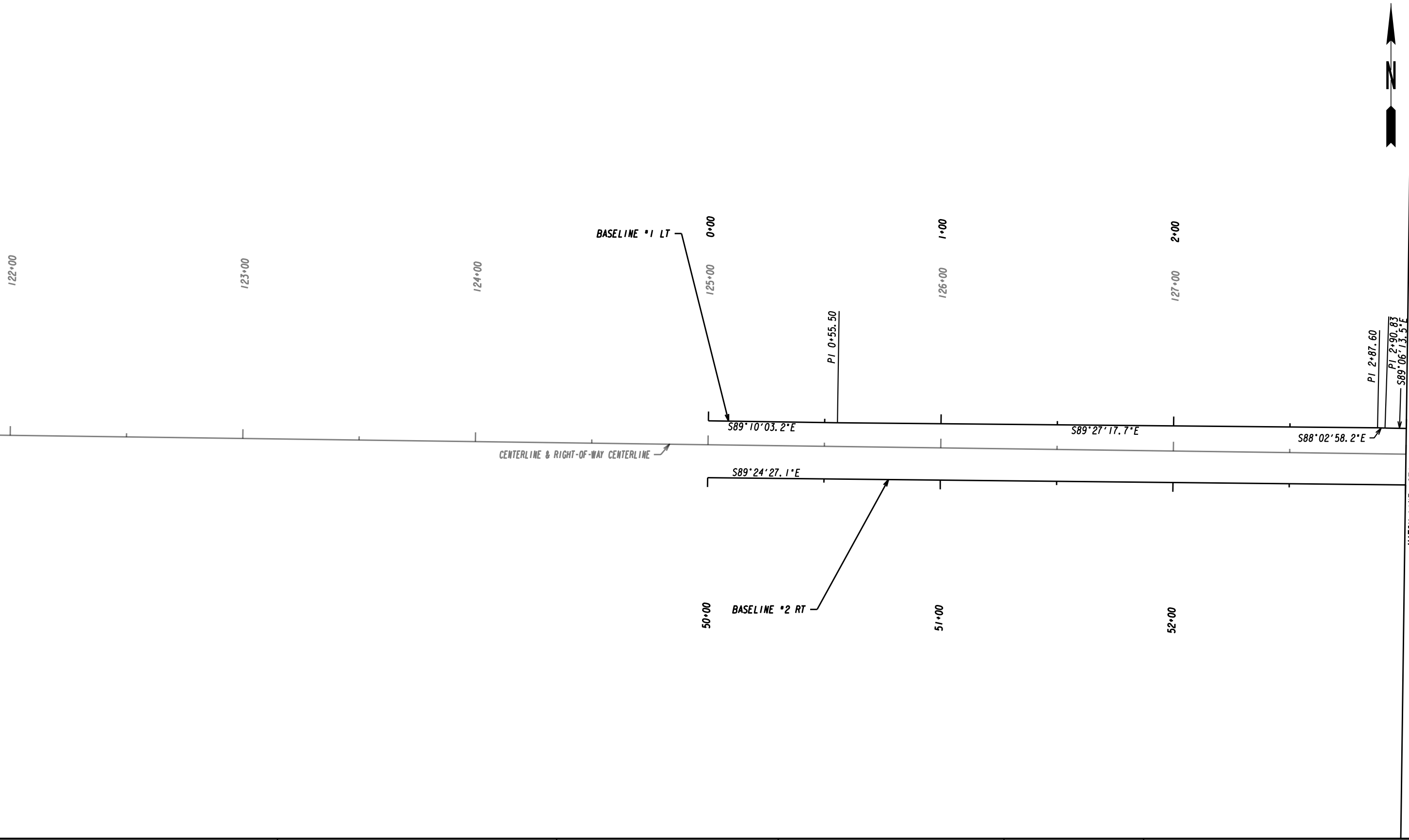
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				<p>SIDEWALK IMPROVEMENTS ON DANFORTH ROAD</p>				
				CHECKED:		DATE:		<p>DRAWING No.</p> <p>09-0001</p>
				BACKCHECKED:		DATE:		
				CORRECTED:		DATE:		
				VERIFIED:		DATE:		



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

-----E-----
---C---F---

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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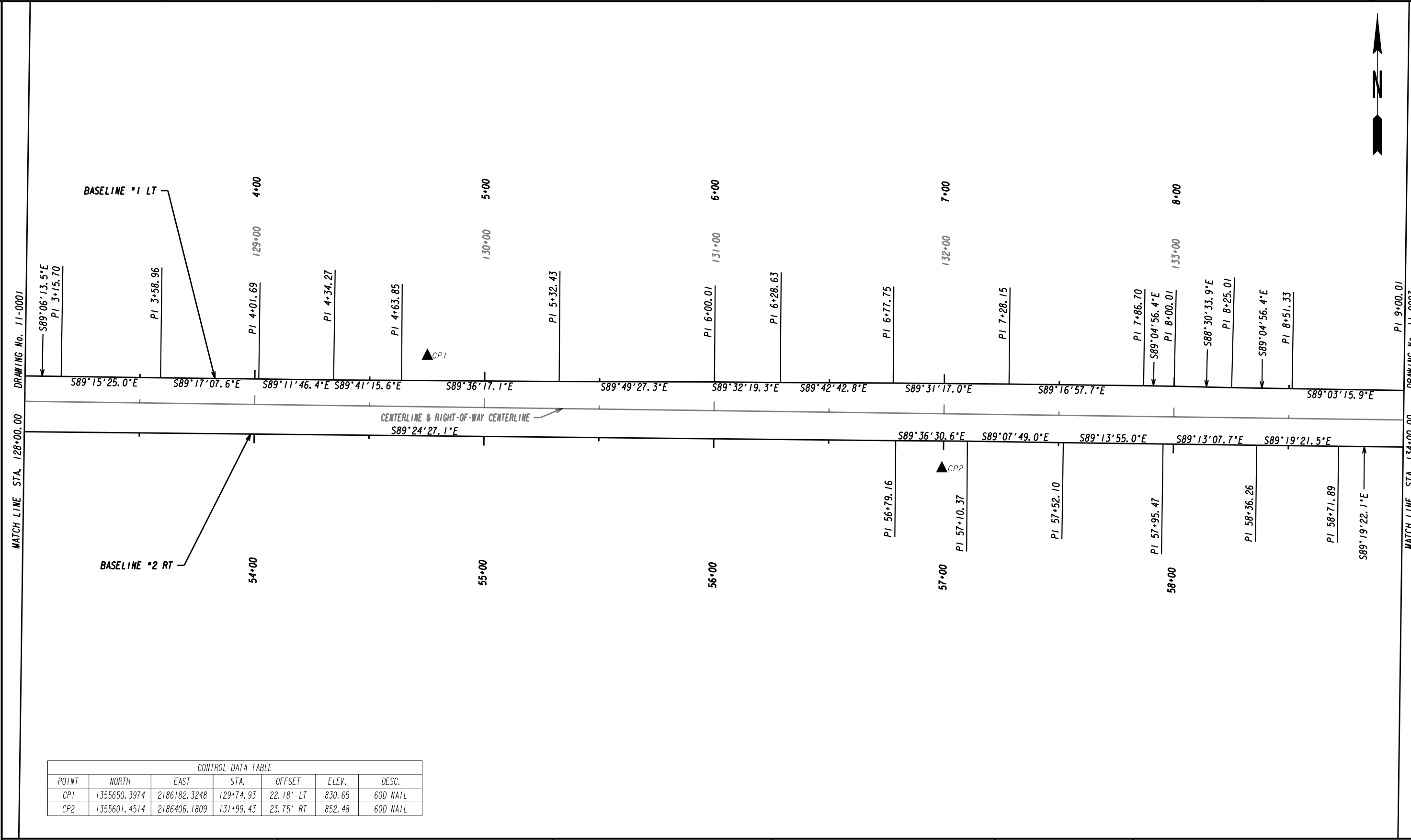
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SCALE IN FEET

REVISION DATES		

**CONSTRUCTION LAYOUT
CENTERLINE AND BASELINES**
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	11-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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

BEGIN LIMIT OF ACCESS.....BLA
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(SEE ERIT TABLE)

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SCALE IN FEET

0 20 40 80

REVISION DATES		

**CONSTRUCTION LAYOUT
CENTERLINE AND BASELINES**

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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VERIFIED:	DATE:	

MATCH LINE STA. 134+00.00 DRAWING No. 11-0002

MATCH LINE STA. 140+00.00 DRAWING No. 11-0004

Curve* 4
PI Sta* 138+94.18
N* 1355615.8396
E* 2187101.1945
DELTA* 16°17'53.6" (RT)
D* 04°46'28.73"
T* 171.83
L* 341.35
R* 1200.00
E* 12.24
D.S.* 0

CONTROL DATA TABLE						
POINT	NORTH	EAST	STA.	OFFSET	ELEV.	DESC.
CP3	1355596.6017	2186906.5942	136+99.86	21.86' RT	915.01	60D NAIL
CP4	1355580.7500	2187113.7757	139+11.20	20.34' RT	913.68	60D NAIL

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

-----E-----
-----C-----F-----

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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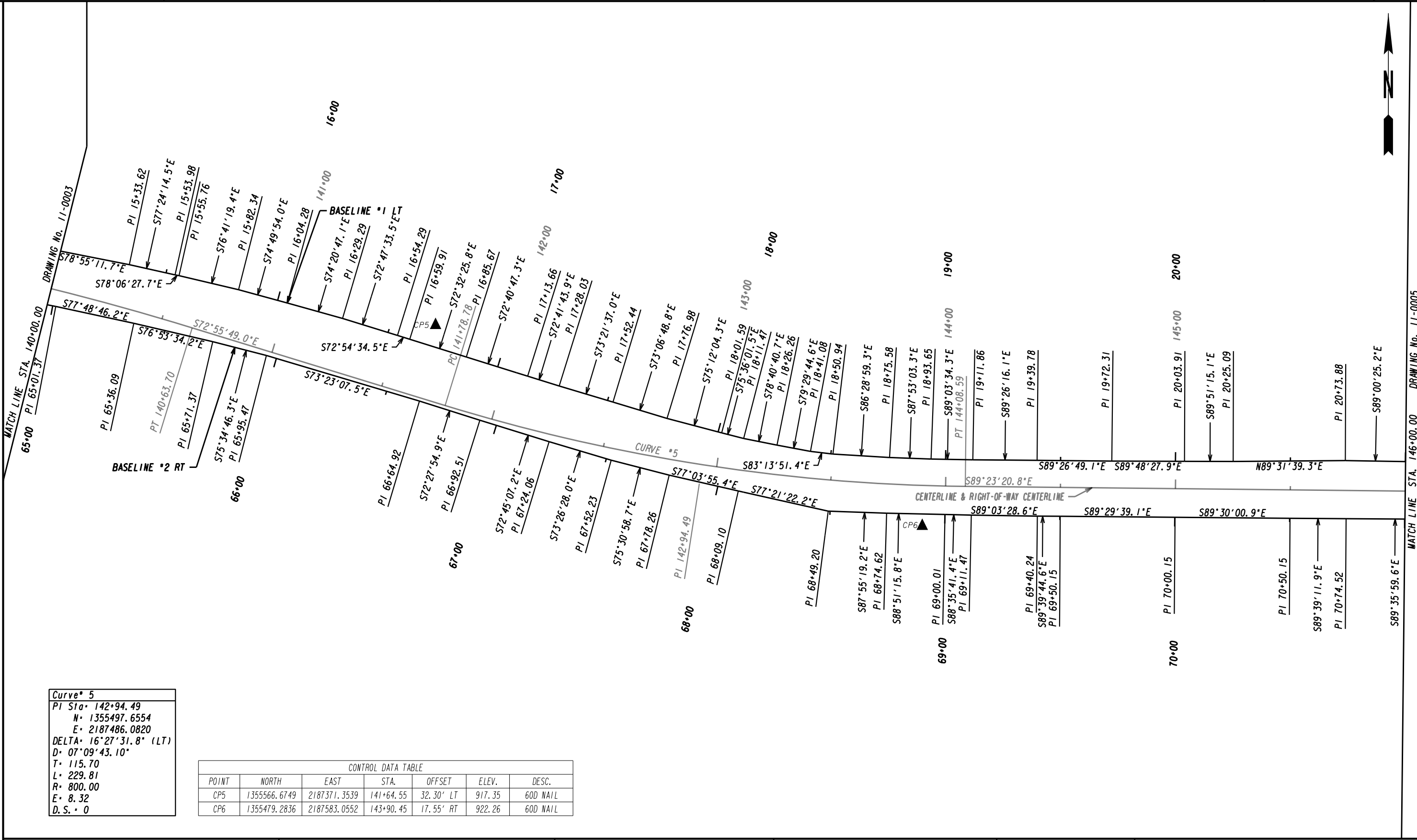
REVISION DATES

CONSTRUCTION LAYOUT
CENTERLINE AND BASELINES

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No. 11-0003
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

10/23/2015 GPLN



Curve 5
PI Sta 142+94.49
N 1355497.6554
E 2187486.0820
DELTA 16°27'31.8" (LT)
D 07°09'43.10"
T 115.70
L 229.81
R 800.00
E 8.32
D.S. 0

CONTROL DATA TABLE						
POINT	NORTH	EAST	STA.	OFFSET	ELEV.	DESC.
CP5	1355566.6749	2187371.3539	141+64.55	32.30' LT	917.35	60D NAIL
CP6	1355479.2836	2187583.0552	143+90.45	17.55' RT	922.26	60D NAIL

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

-----E-----
-C-F-

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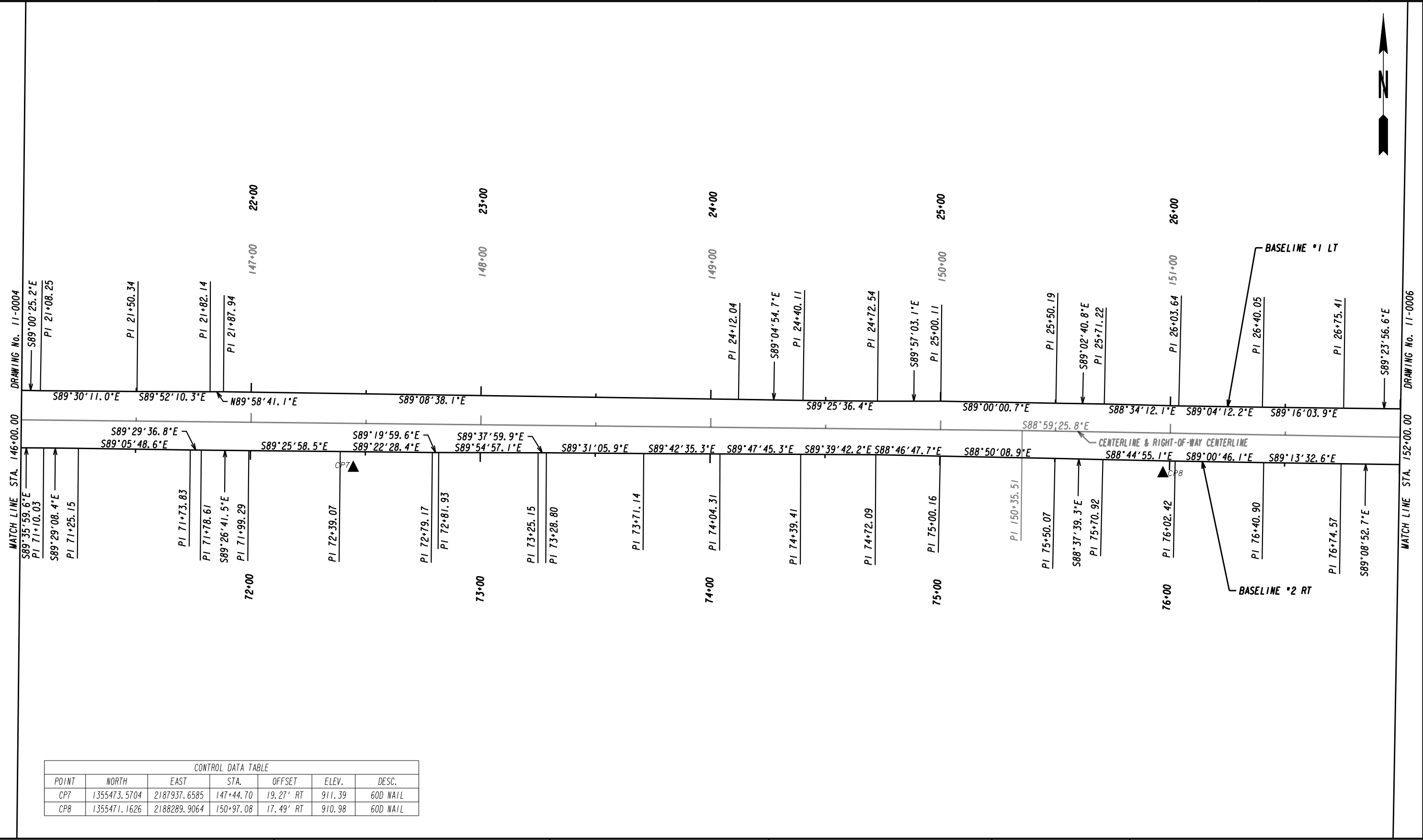
REVISION DATES

CONSTRUCTION LAYOUT
CENTERLINE AND BASELINES
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No. 11-0004
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CORRECTED:	DATE:	
VERIFIED:	DATE:	

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GPLN



CONTROL DATA TABLE						
POINT	NORTH	EAST	STA.	OFFSET	ELEV.	DESC.
CP7	1355473.5704	2187937.6585	147+44.70	19.27' RT	911.39	60D NAIL
CP8	1355471.1626	2188289.9064	150+97.08	17.49' RT	910.98	60D NAIL

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

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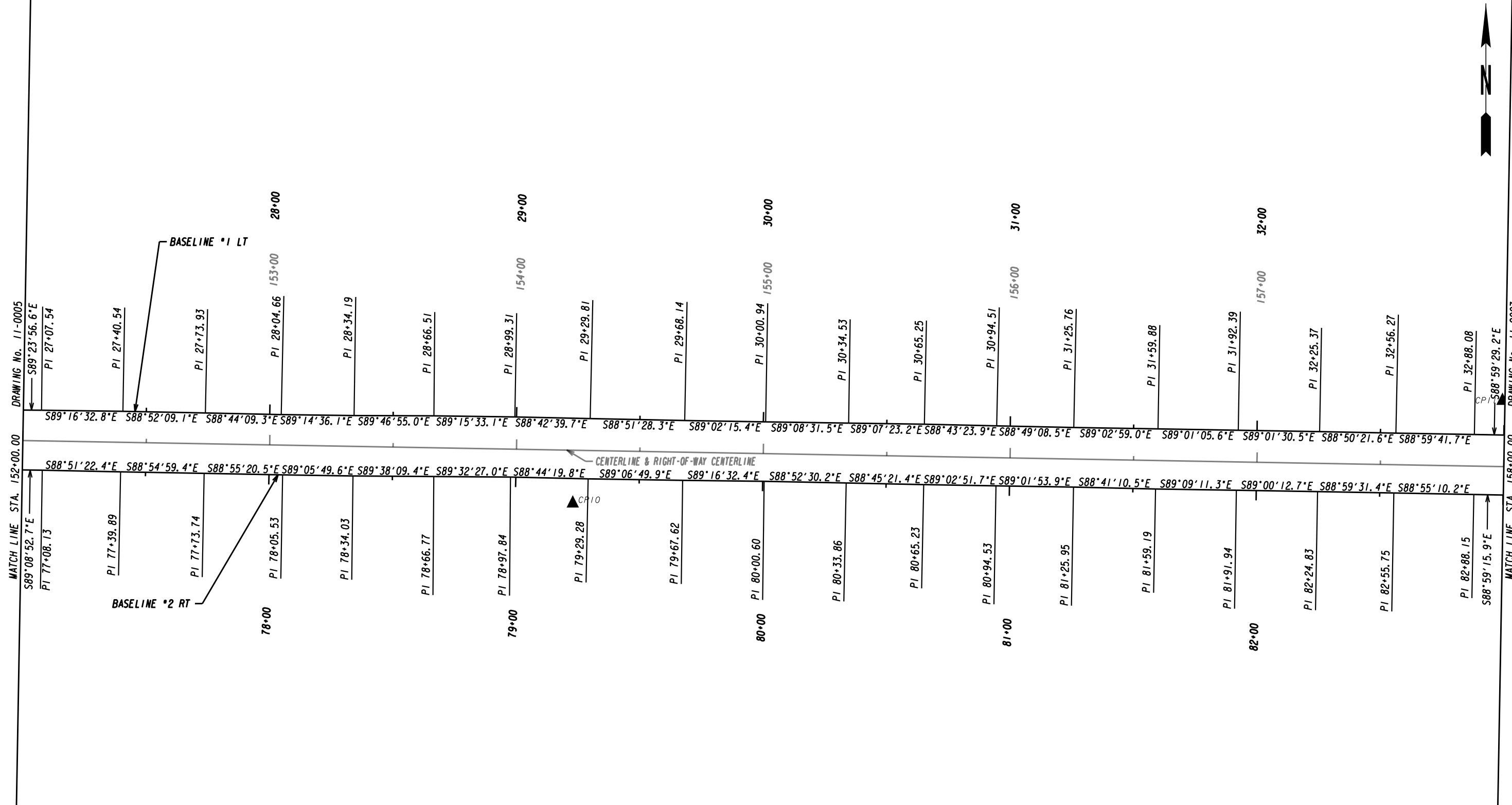
SCALE IN FEET

REVISION DATES		

CONSTRUCTION LAYOUT
CENTERLINE AND BASELINES

SIDWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No. 11-0005
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



CONTROL DATA TABLE						
POINT	NORTH	EAST	STA.	OFFSET	ELEV.	DESC.
CP10	1355461.4701	2188615.9007	154+23.19	21.44' RT	900.72	60D NAIL
CP11	1355503.0429	2188992.4777	157+98.98	26.76' LT	870.17	60D NAIL

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
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EASEMENT FOR CONSTR
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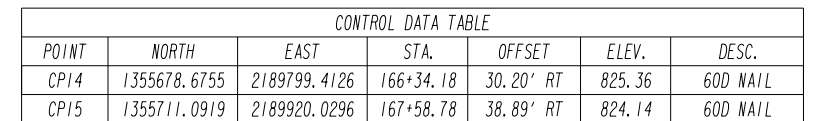
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REVISION DATES

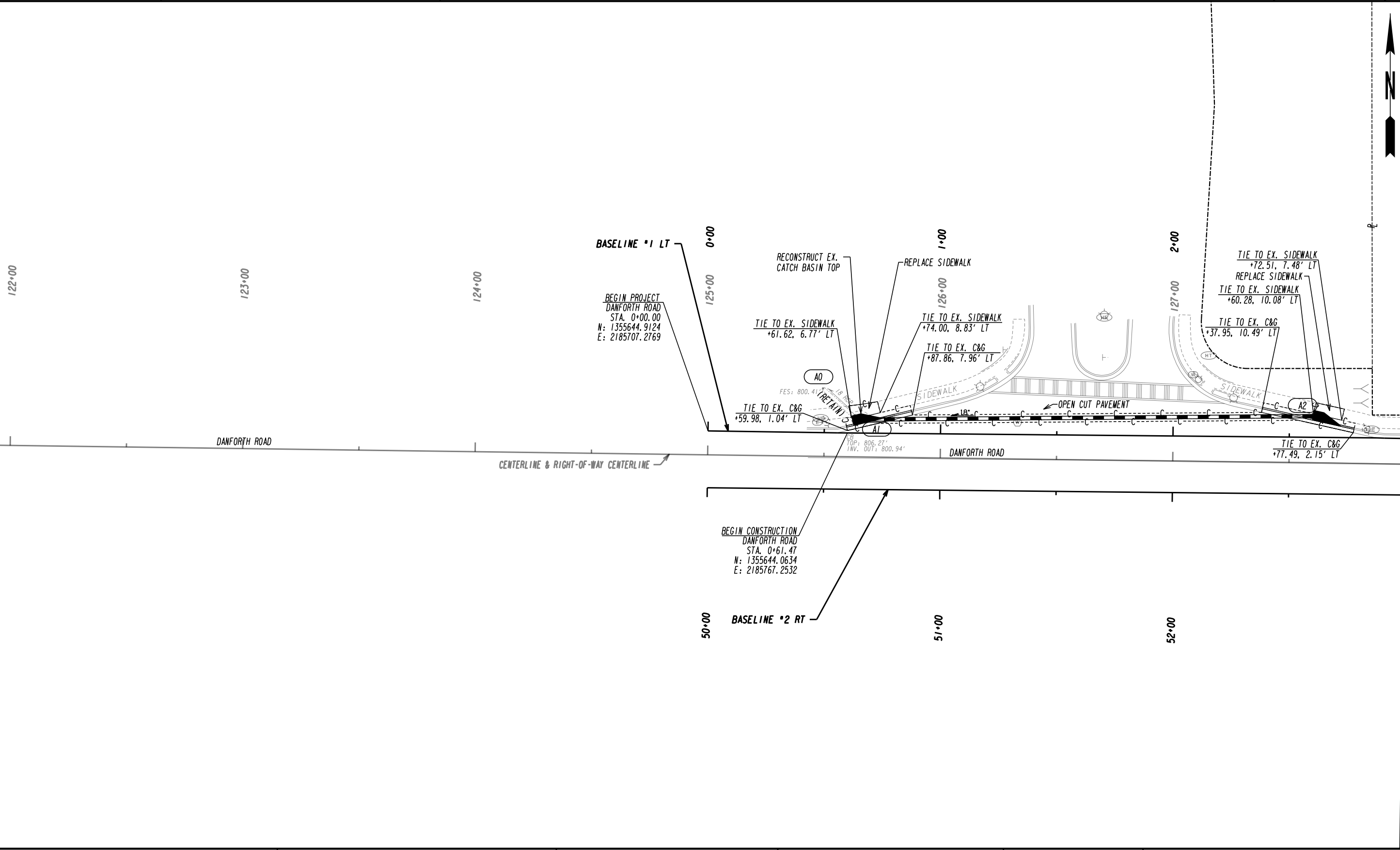
CONSTRUCTION LAYOUT
CENTERLINE AND BASELINES

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	11-0006
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CHECKED:	DATE:	DRAWING No. 11-0008
BACKCHECKED:	DATE:	
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VERIFIED:	DATE:	



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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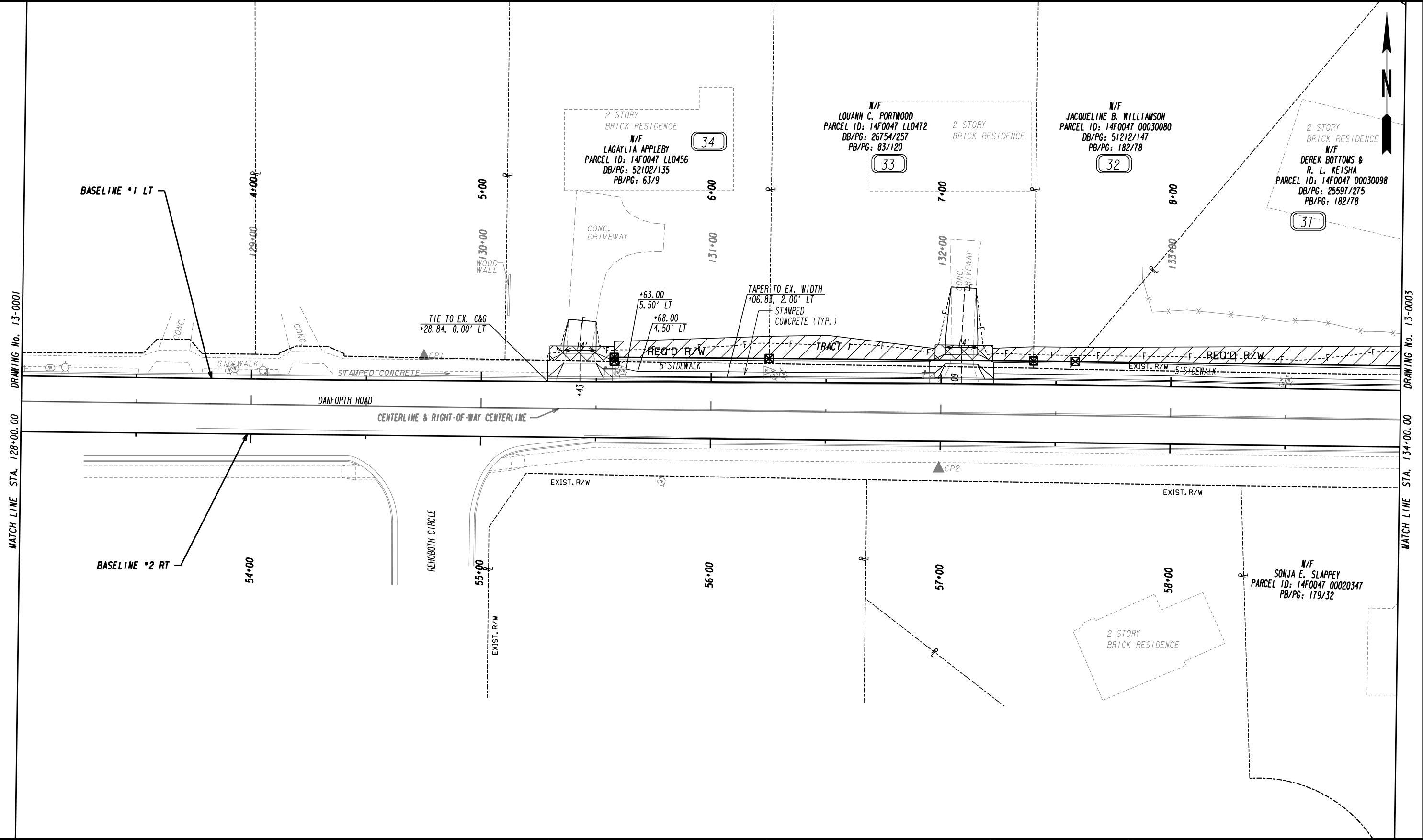
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CONSTRUCTION PLAN
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
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REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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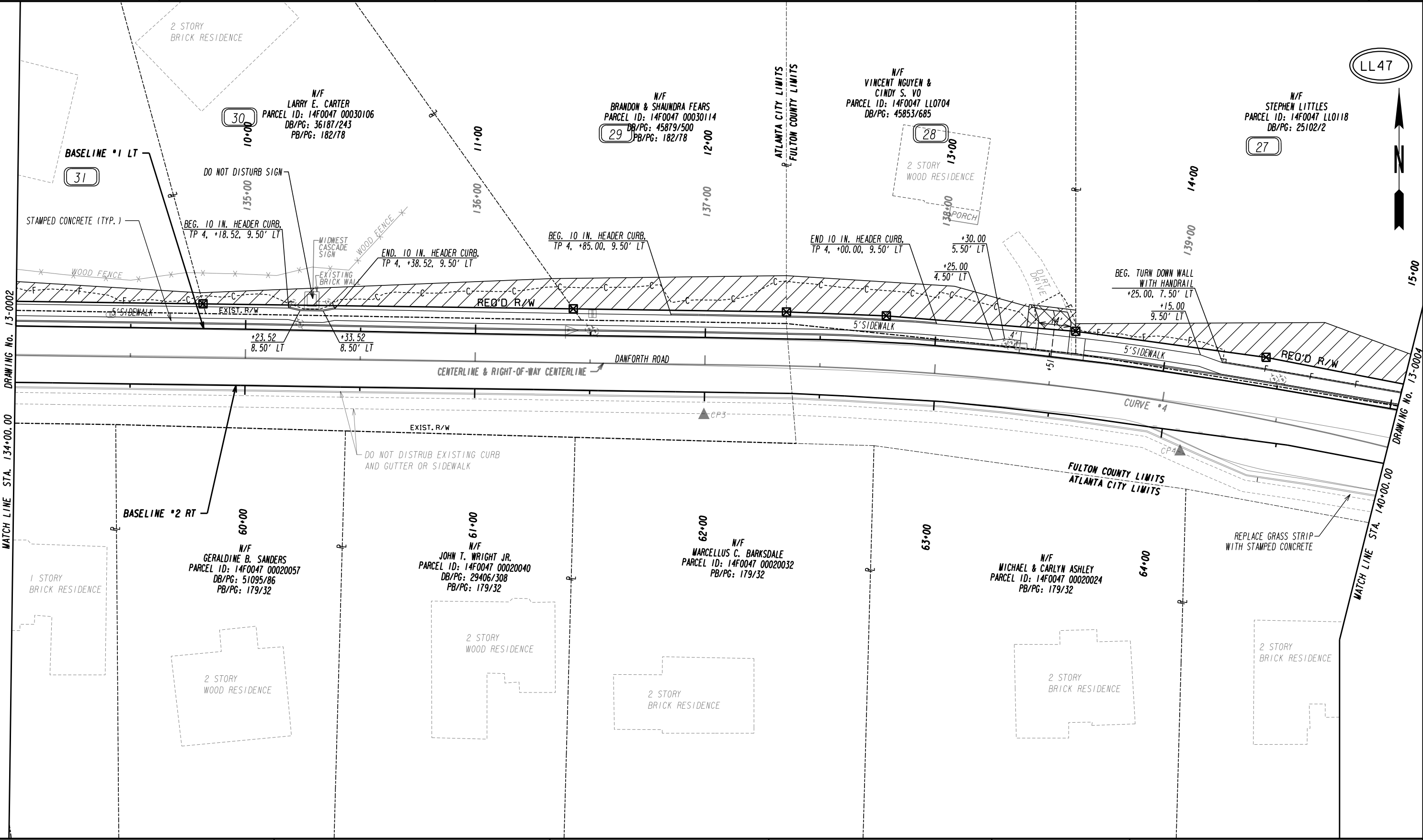
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REVISION DATES

CONSTRUCTION PLAN

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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BACKCHECKED:	DATE:	13-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

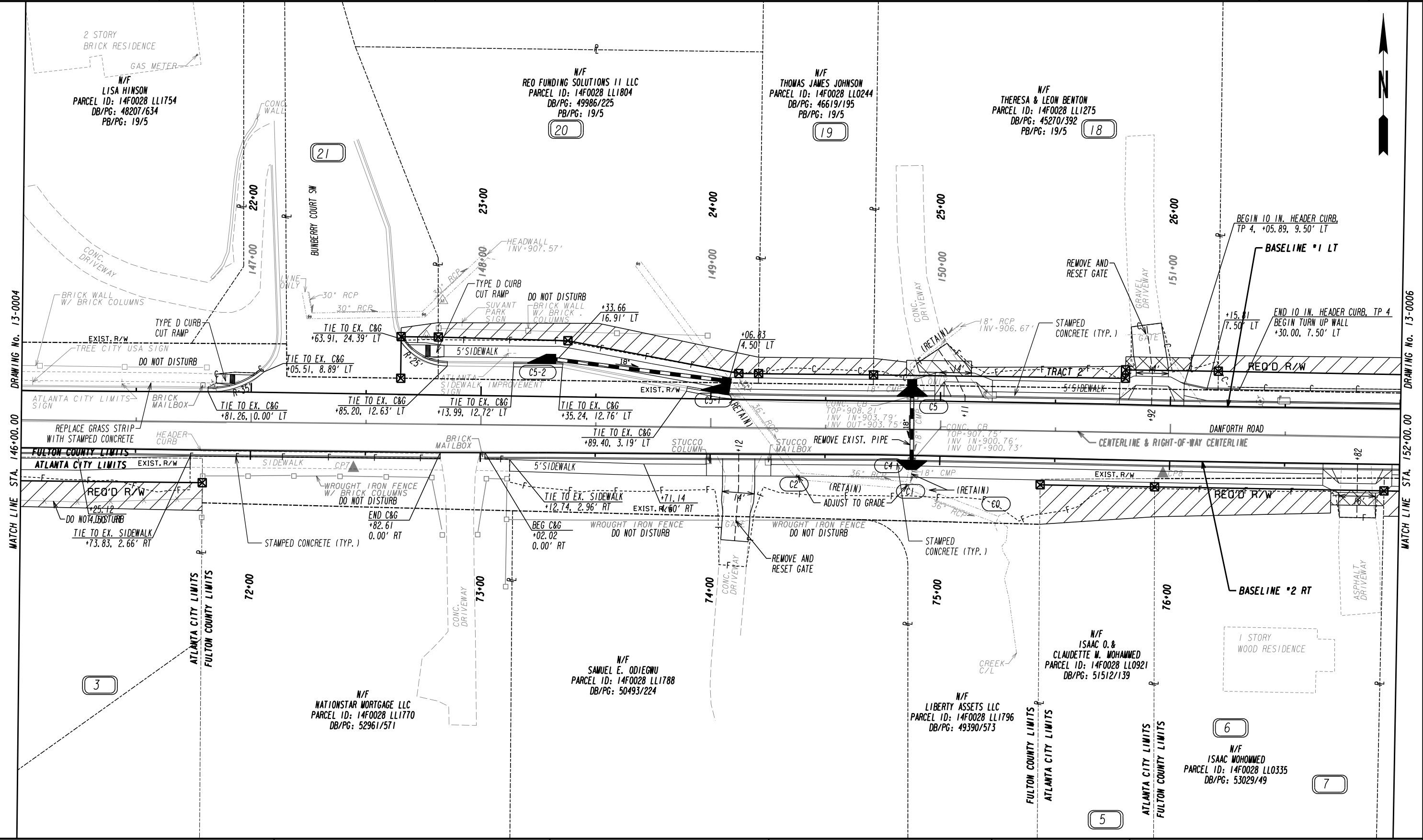
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VERIFIED:	DATE:	



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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REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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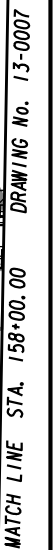
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REVISION DATES

CONSTRUCTION PLAN

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

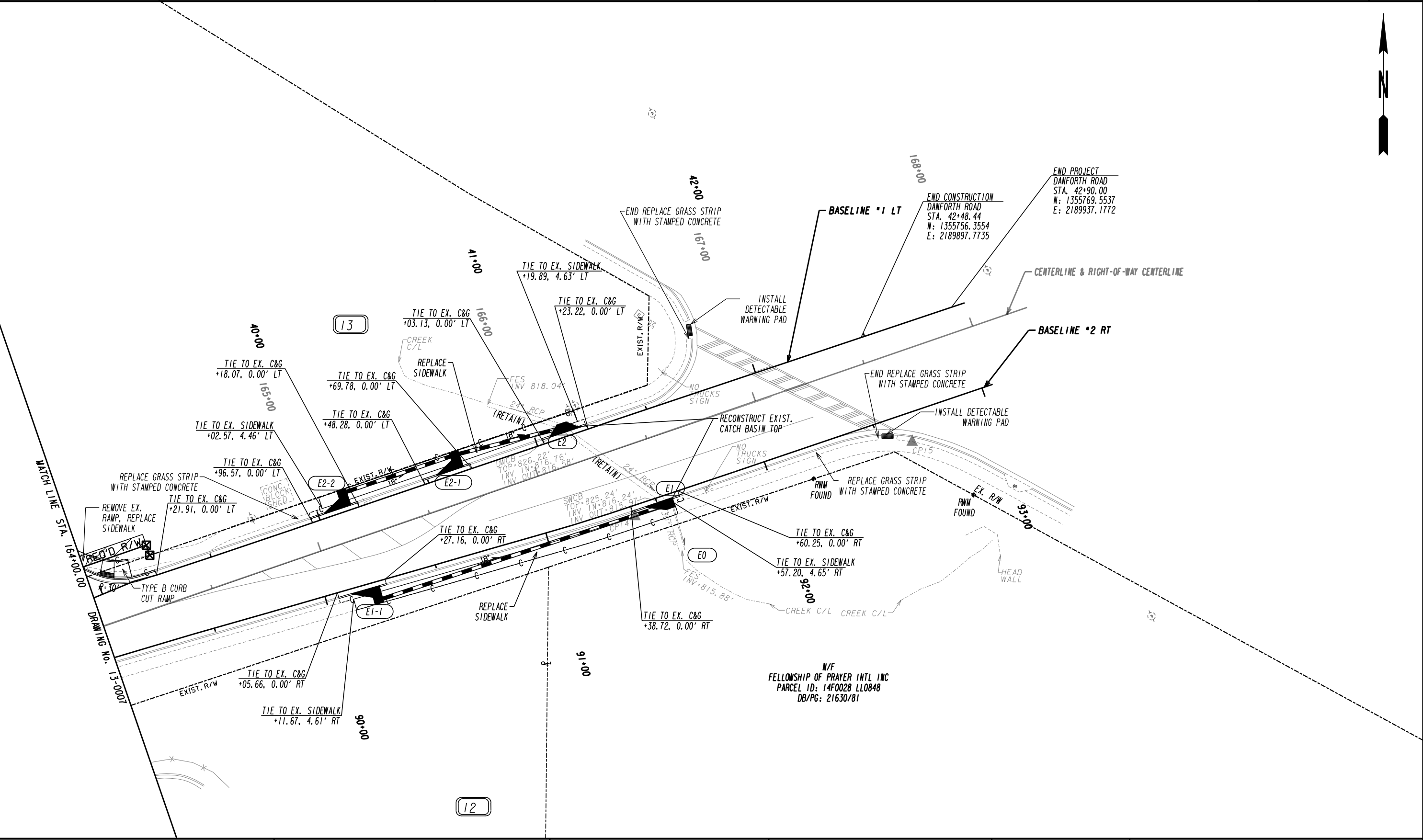
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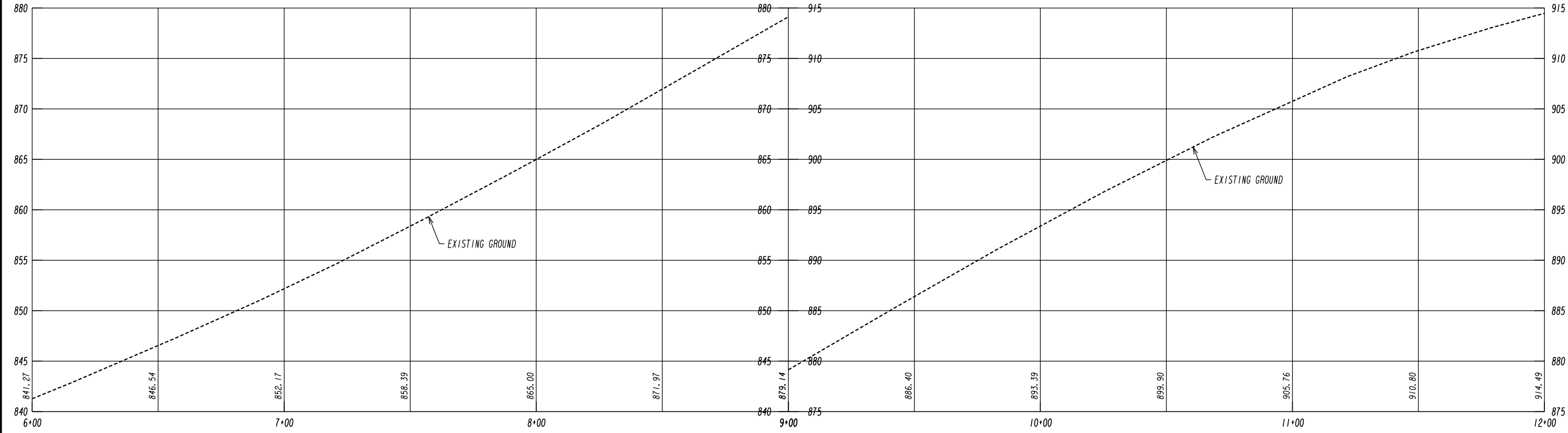
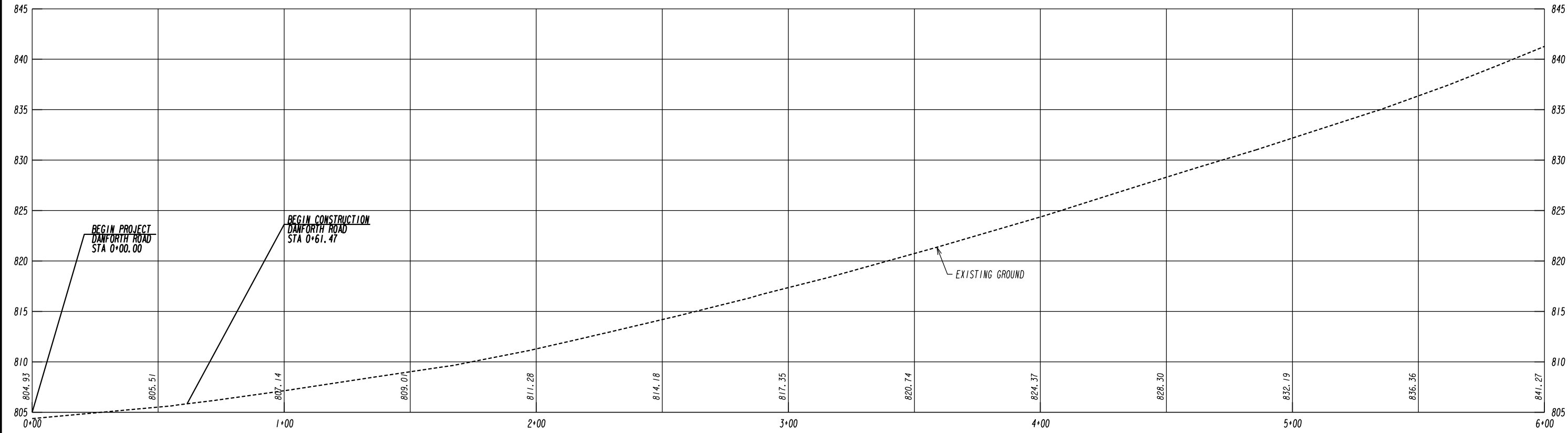


CHECKED:	DATE:	DRAWING No. 13-0006
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



CONSTRUCTION PLAN			
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD			
CHECKED:		DATE:	DRAWING No. 13-0007
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	





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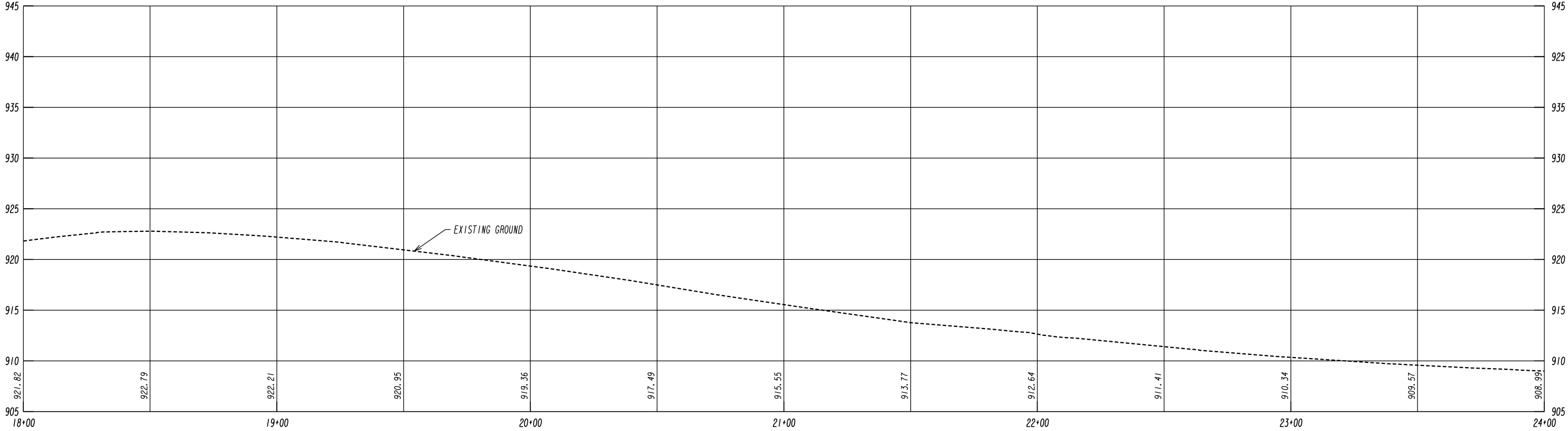
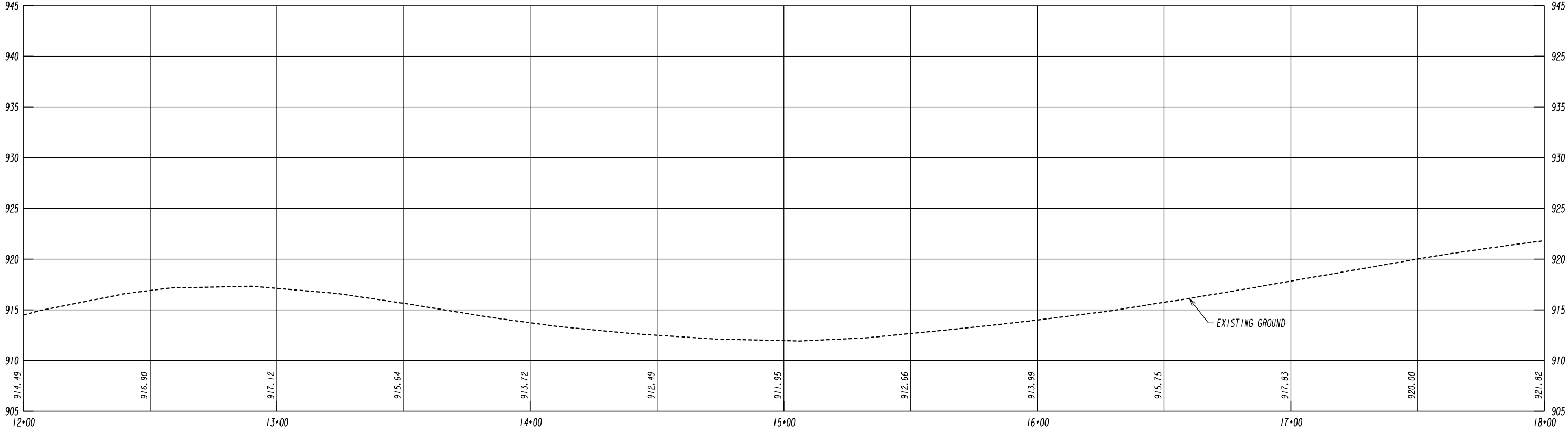
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1" = 20' HORIZONTAL
1" = 5' VERTICAL

REVISION DATES			MAINLINE PROFILE BASELINE '1 LT		
			SIDEWALK IMPROVEMENTS ON DANFORTH ROAD		
CHECKED:		DATE:	DRAWING No.		
BACKCHECKED:		DATE:	15-0001		
CORRECTED:		DATE:			
VERIFIED:		DATE:			



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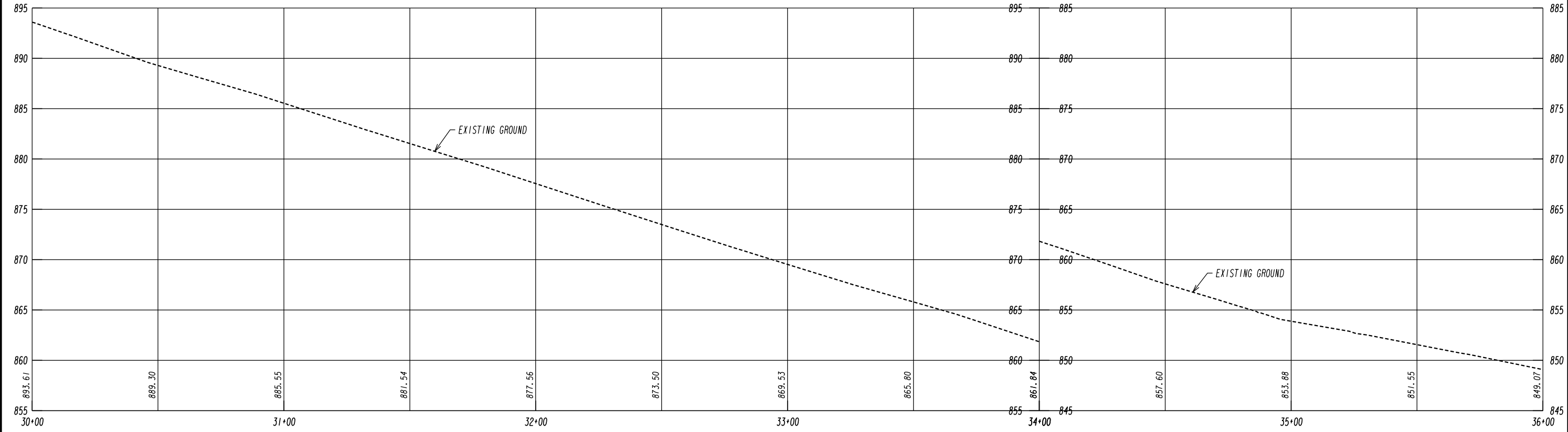
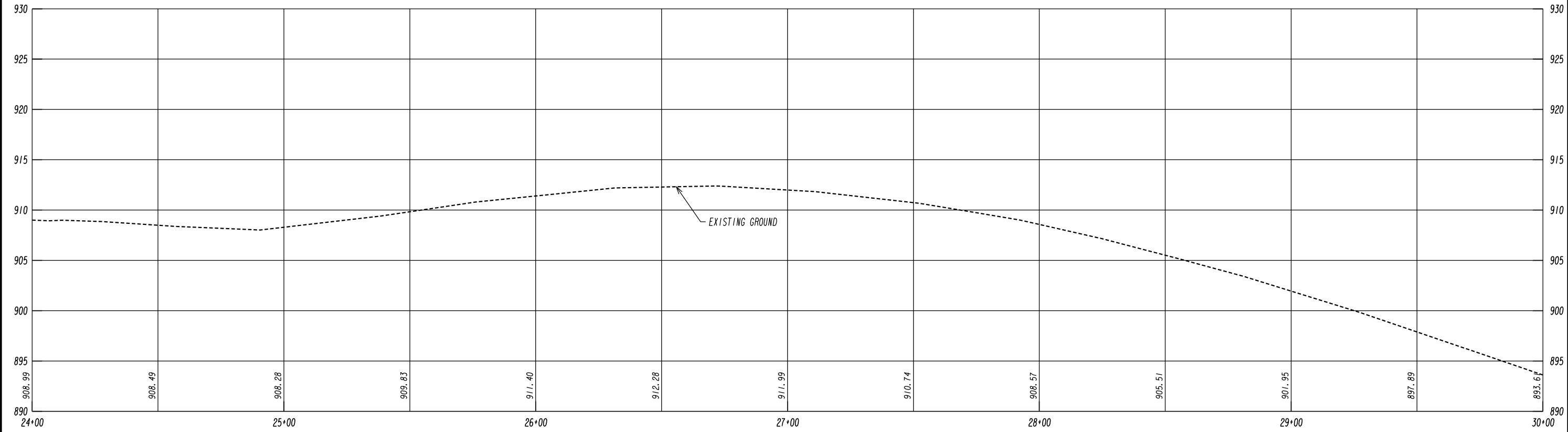
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1" = 5' VERTICAL

REVISION DATES			MAINLINE PROFILE BASELINE #1 LT			
			SIDEWALK IMPROVEMENTS ON DANFORTH ROAD			
			CHECKED:	DATE:	DRAWING No.	
			BACKCHECKED:	DATE:	15-0002	
			CORRECTED:	DATE:		
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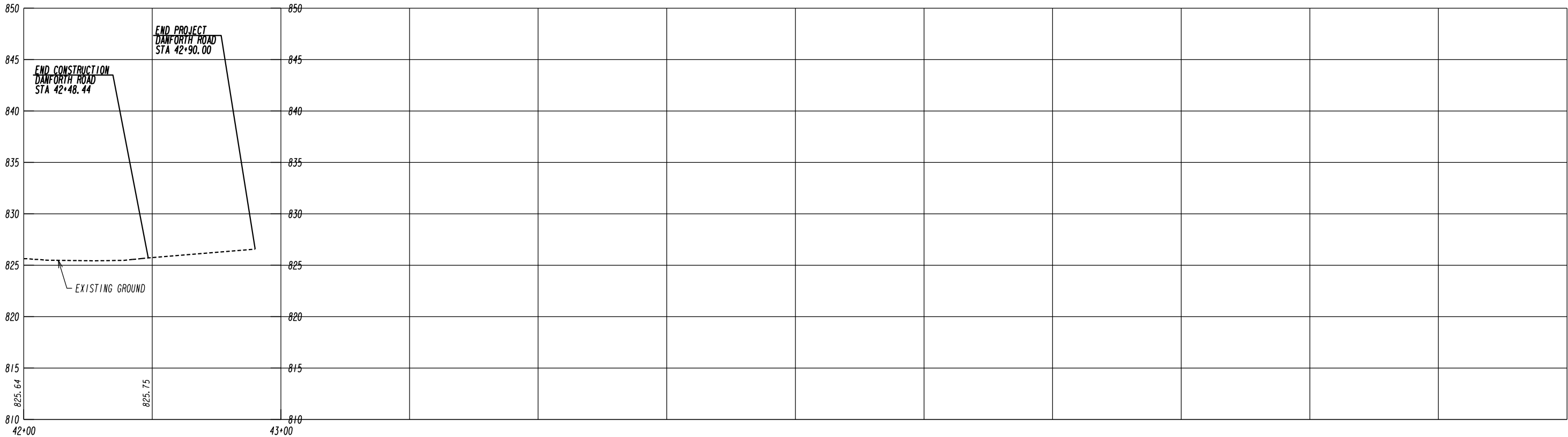
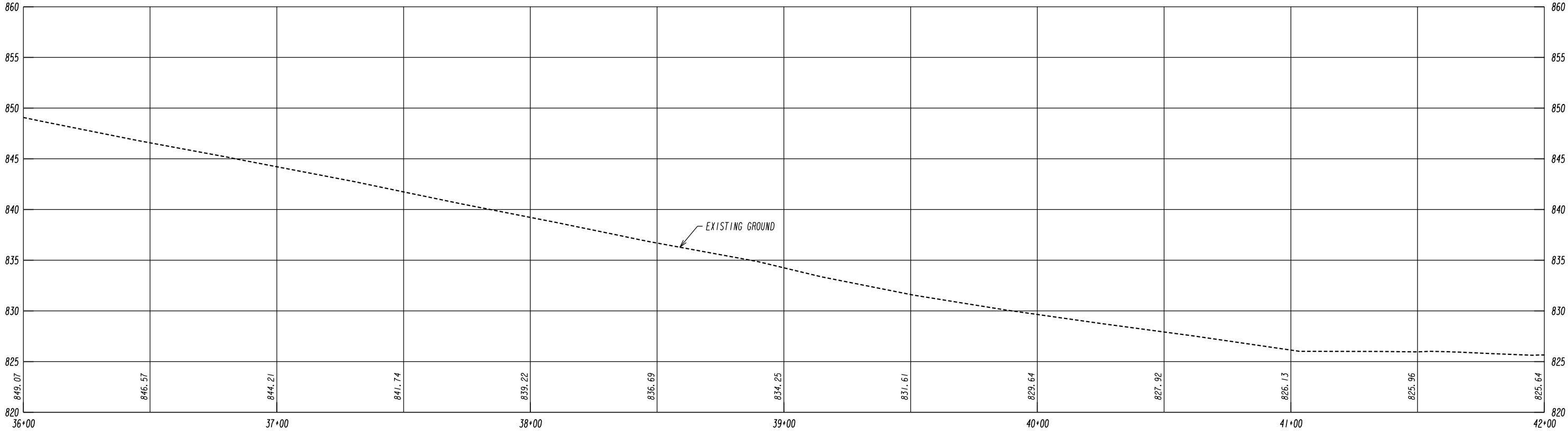
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1" = 20' HORIZONTAL
1" = 5' VERTICAL

REVISION DATES			MAINLINE PROFILE BASELINE #1 LT			
			SIDEWALK IMPROVEMENTS ON DANFORTH ROAD			
			CHECKED:		DATE:	DRAWING No.
			BACKCHECKED:		DATE:	15-0003
			CORRECTED:		DATE:	
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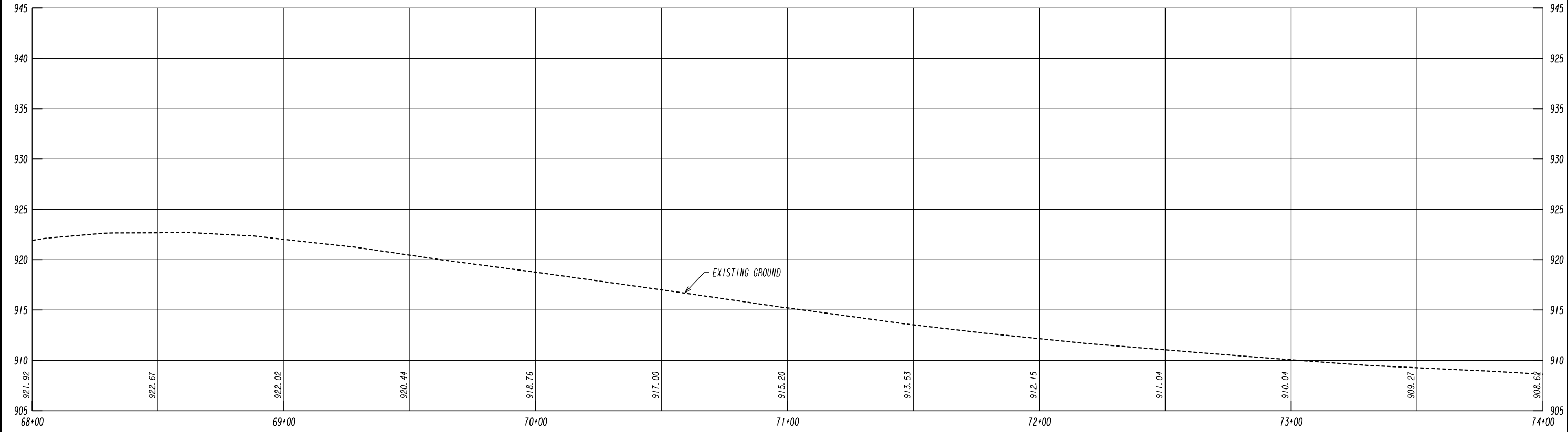
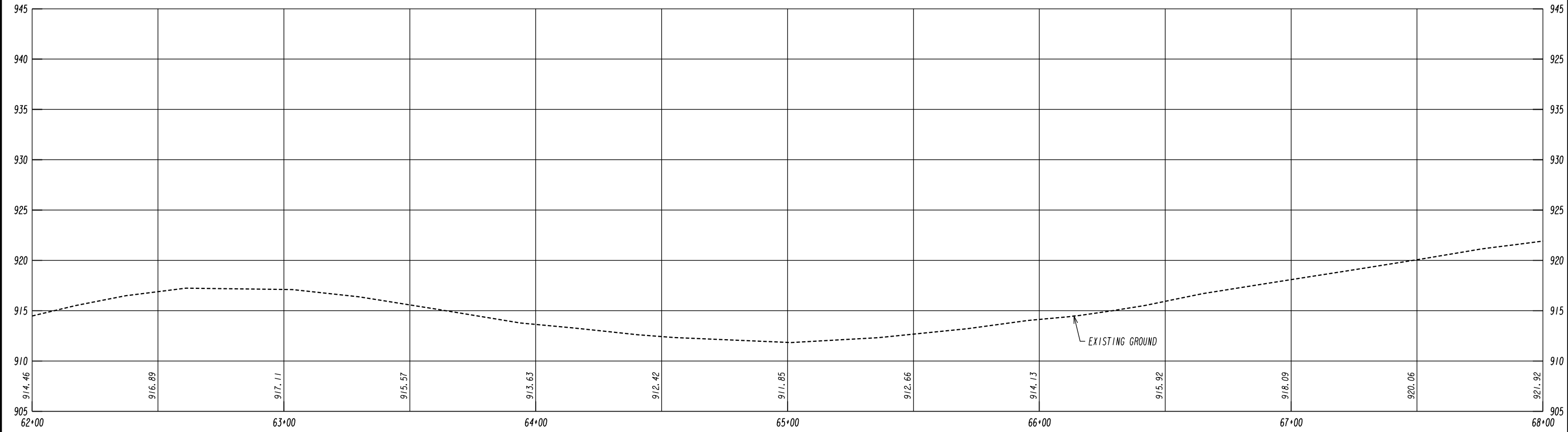
1" = 20' HORIZONTAL
1" = 5' VERTICAL

REVISION DATES		


**MAINLINE PROFILE
BASELINE #1 LT**

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No. 15-0004
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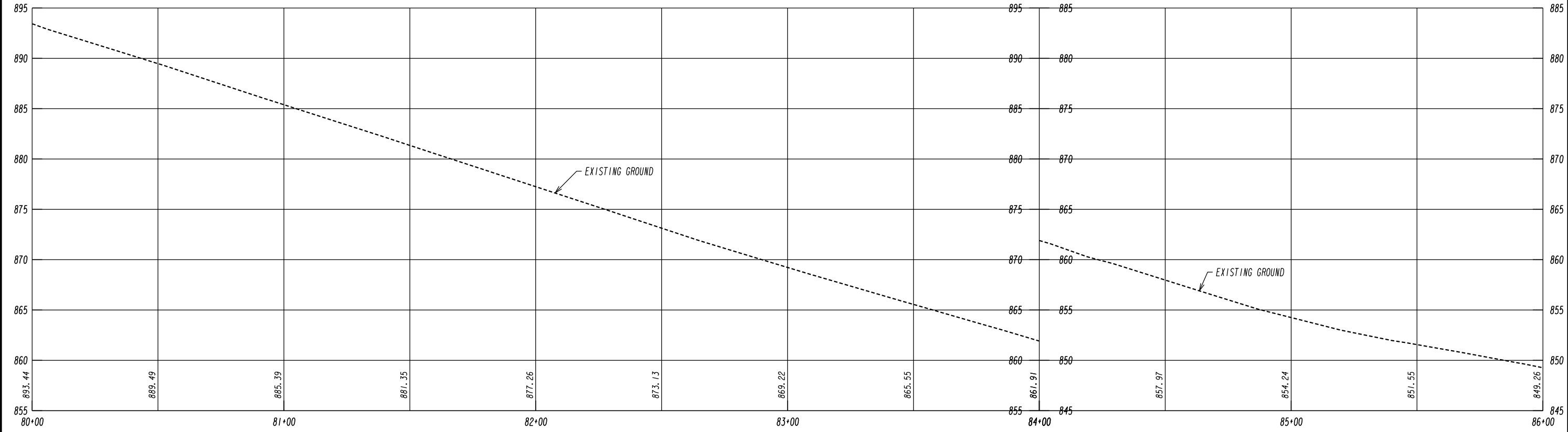
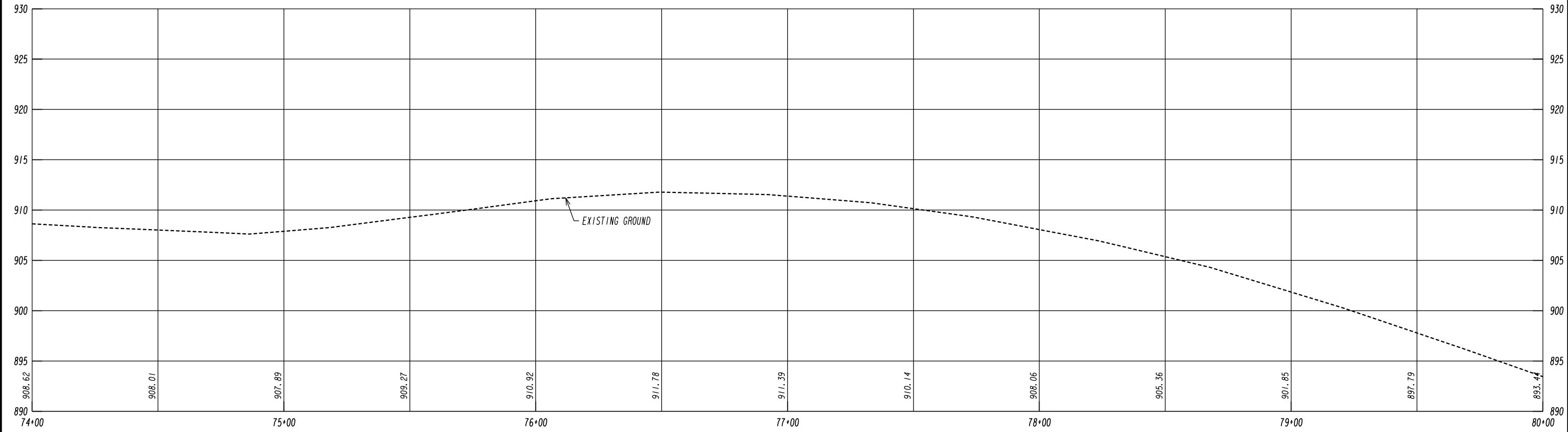
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REVISION DATES			MAINLINE PROFILE BASELINE #2 RT			
			SIDEWALK IMPROVEMENTS ON DANFORTH ROAD			
			CHECKED:	DATE:	DRAWING No.	
			BACKCHECKED:	DATE:	15-0005	
			CORRECTED:	DATE:		
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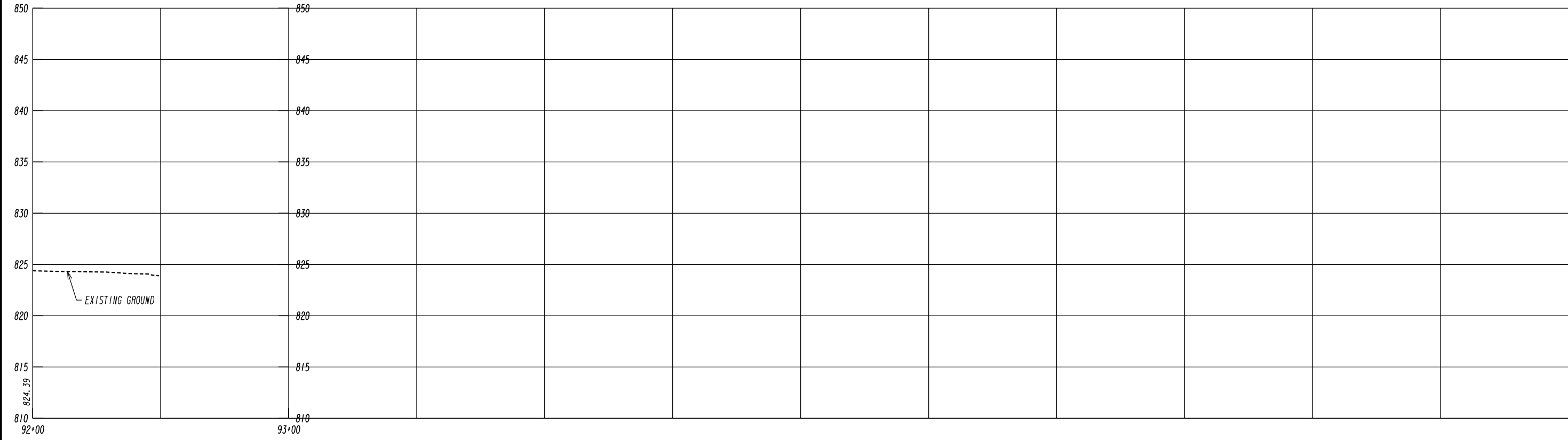
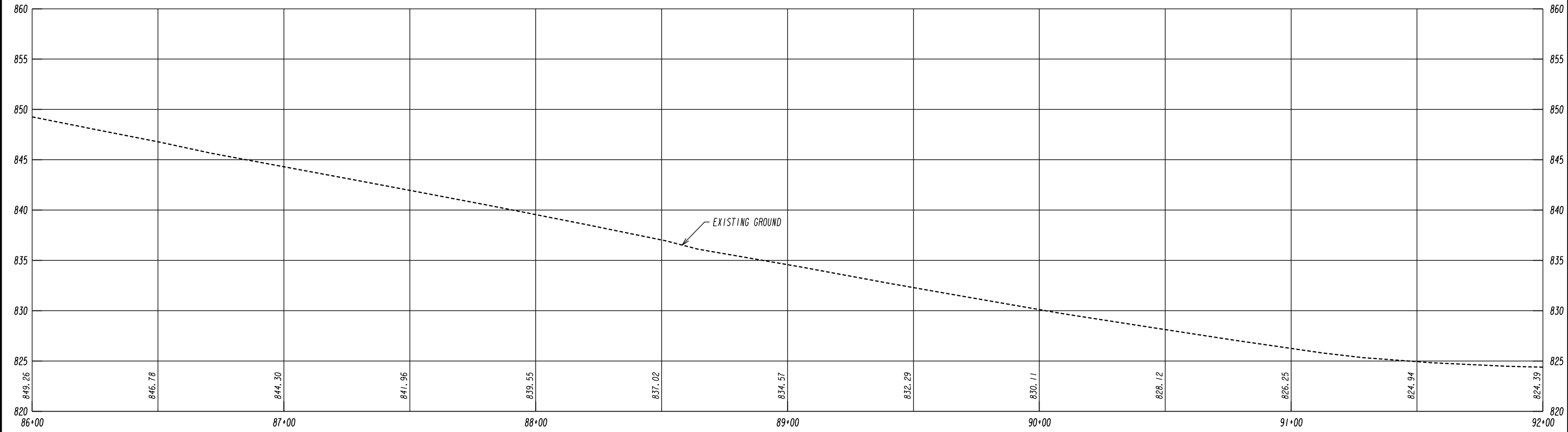
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REVISION DATES			MAINLINE PROFILE BASELINE #2 RT			
			SIDEWALK IMPROVEMENTS ON DANFORTH ROAD			
			CHECKED:		DATE:	DRAWING No.
			BACKCHECKED:		DATE:	15-0006
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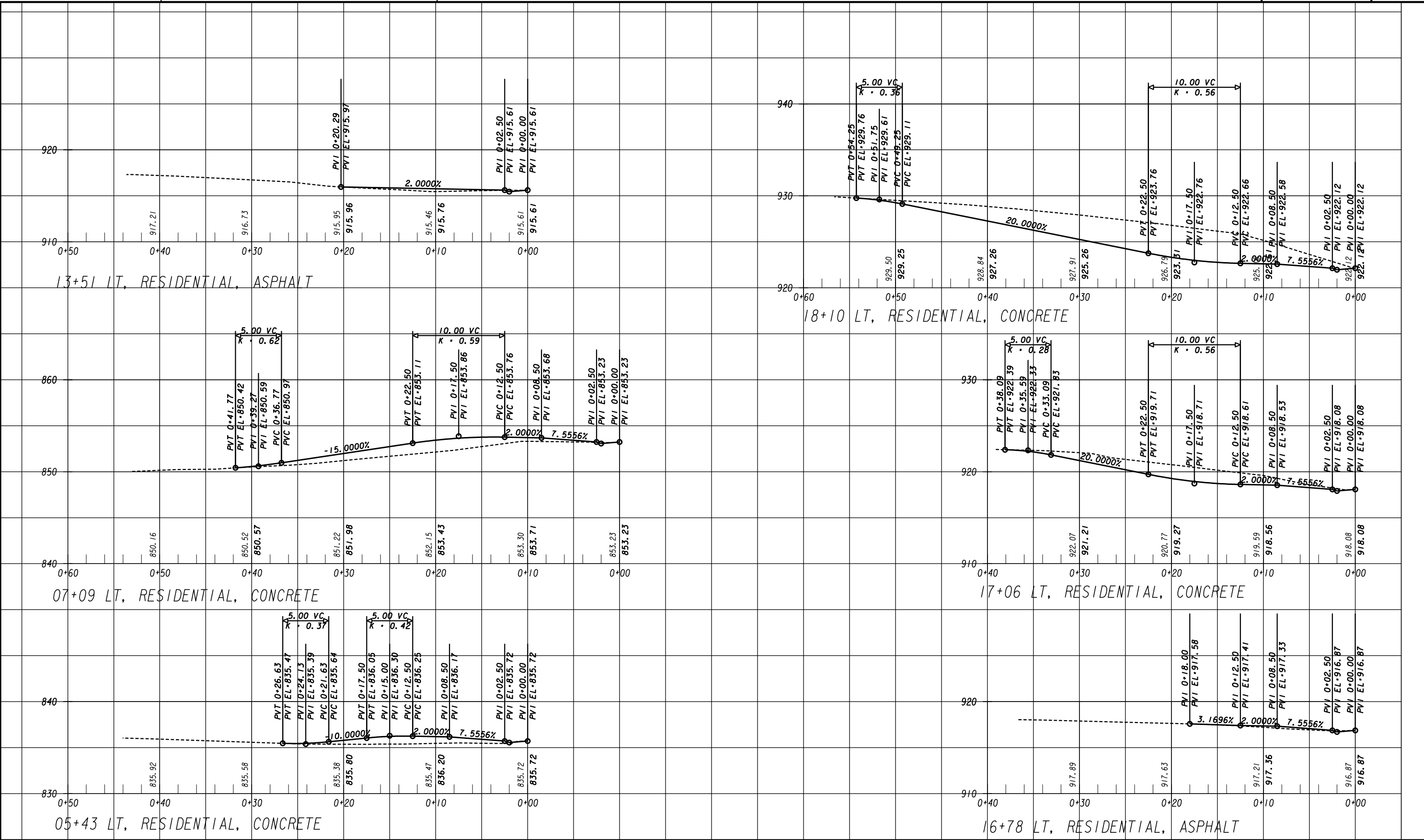
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1" = 5' VERTICAL

REVISION DATES		

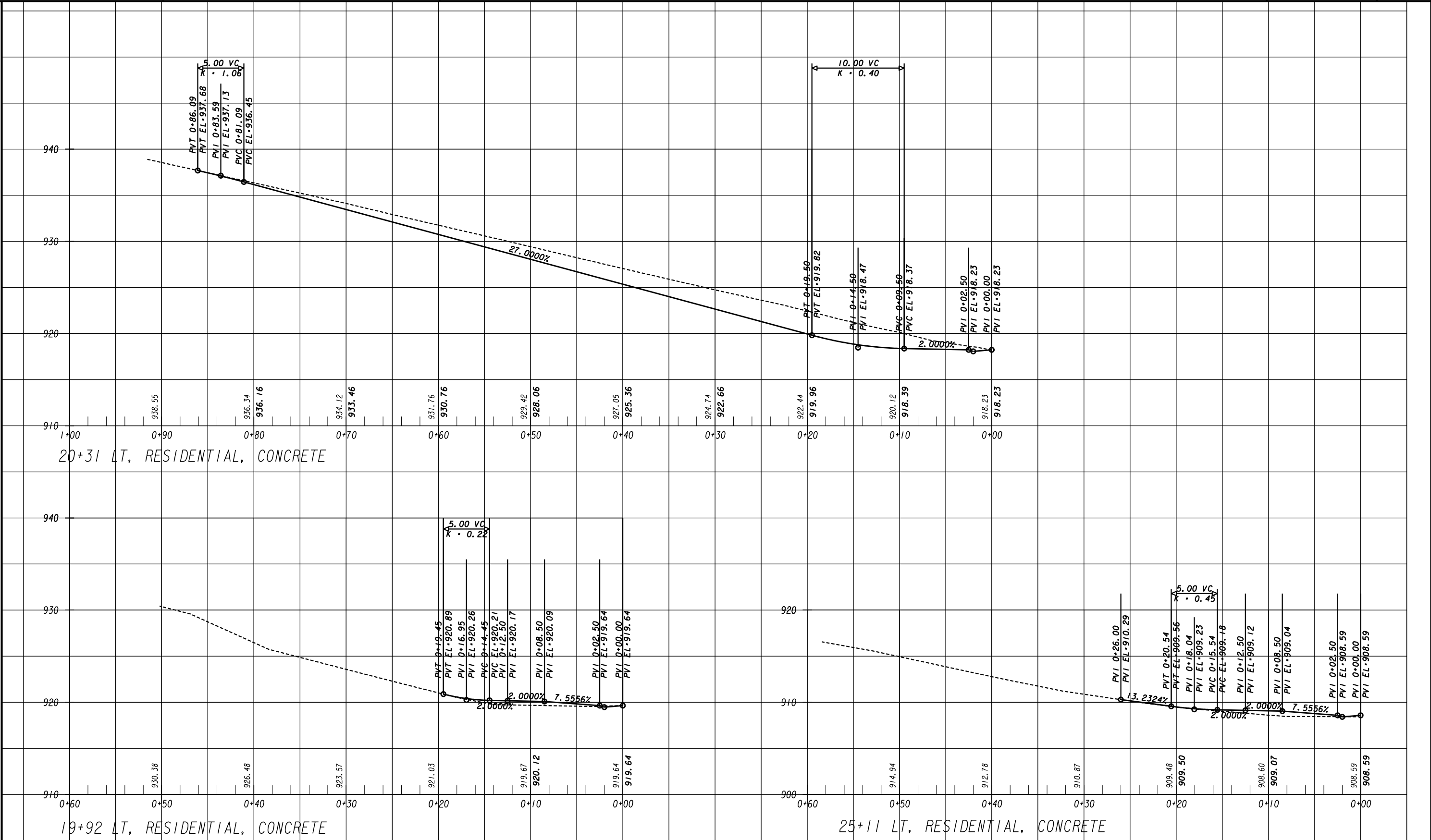
**MAINLINE PROFILE
BASELINE #2 RT**

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	15-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	



REVISION DATES		DRIVEWAY PROFILE				
		SIDEWALK IMPROVEMENTS ON DANFORTH ROAD				
		CHECKED:		DATE:		DRAWING No. 17-0001
		BACKCHECKED:		DATE:		
		CORRECTED:		DATE:		
		VERIFIED:		DATE:		



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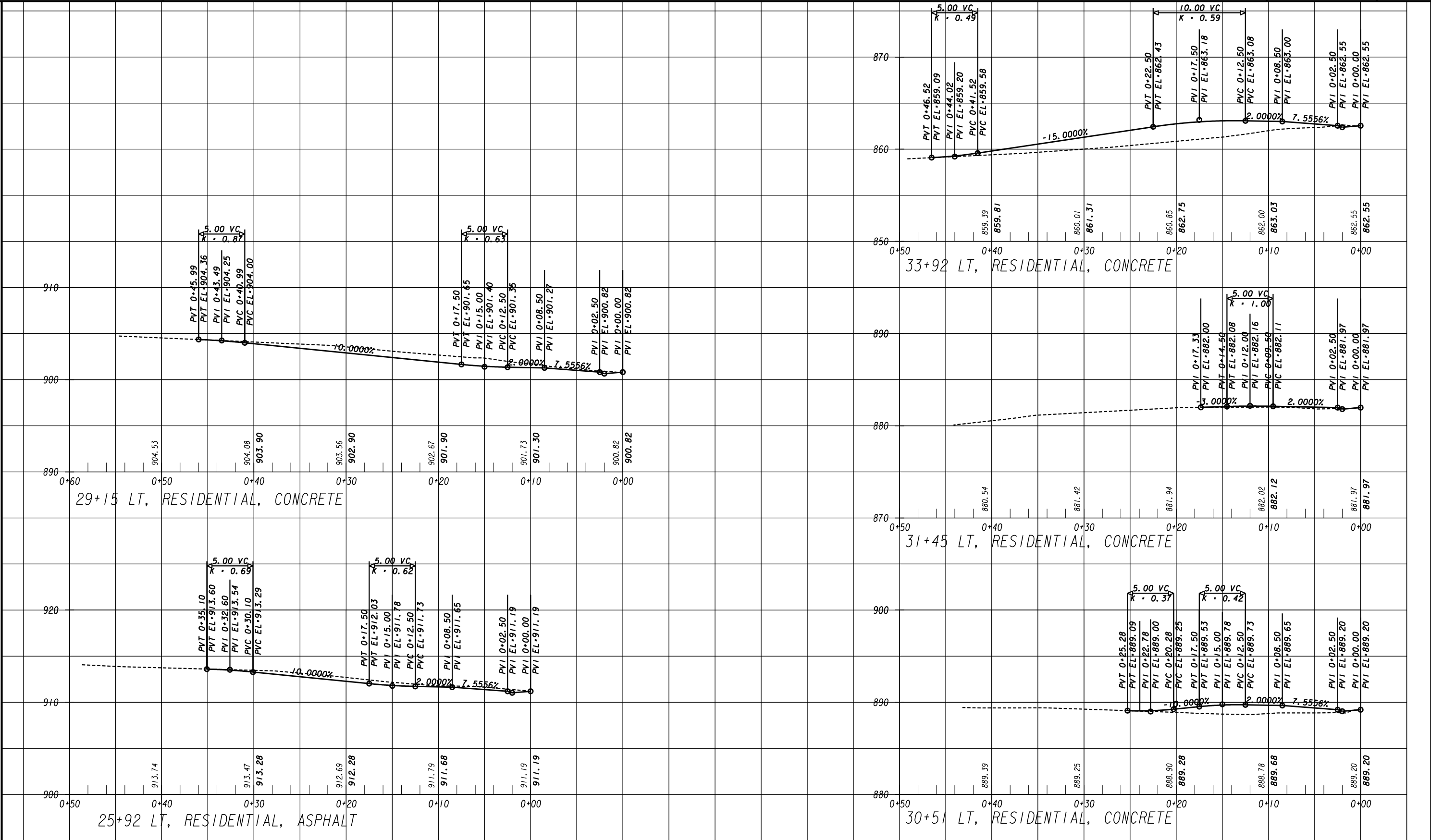
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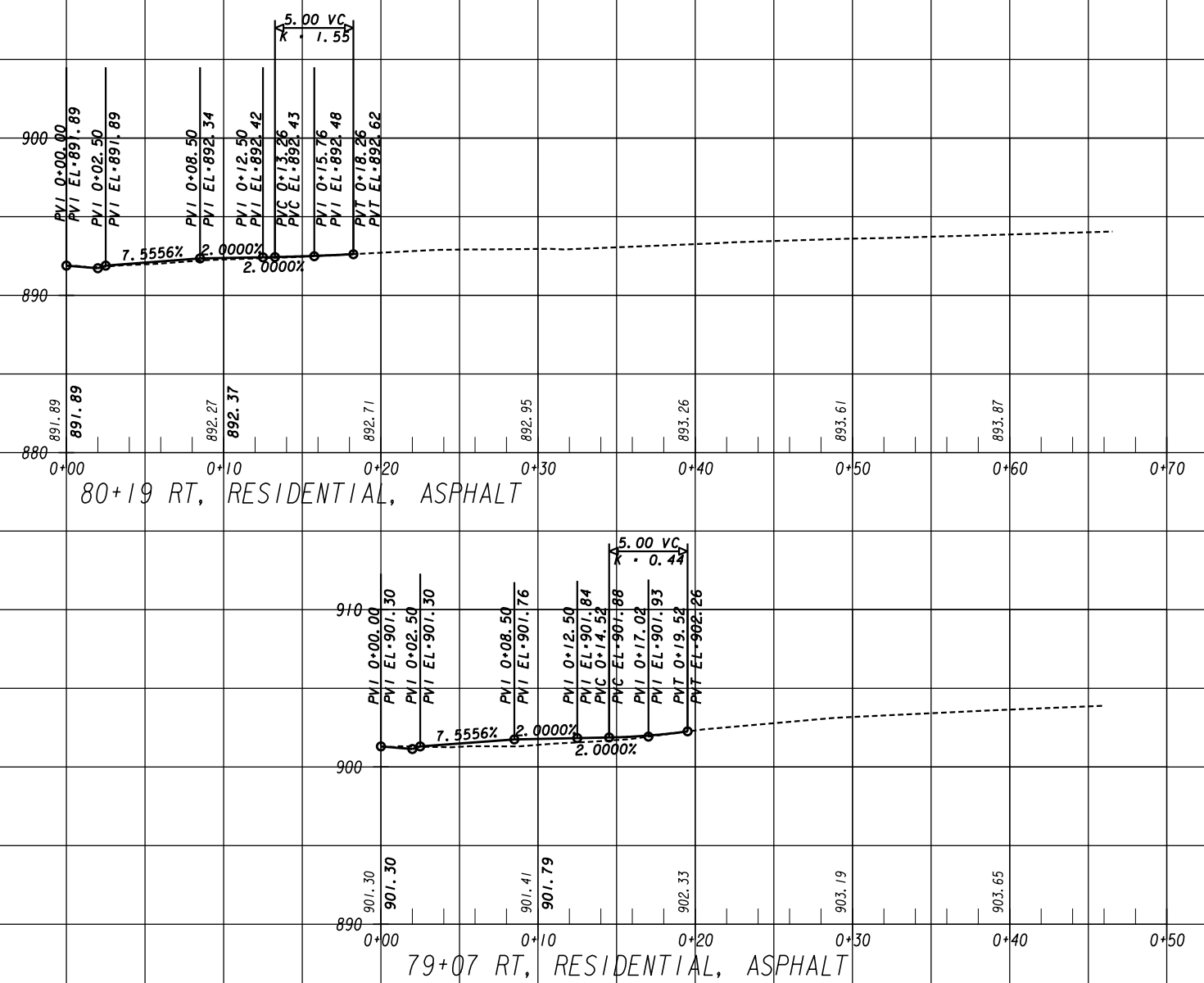
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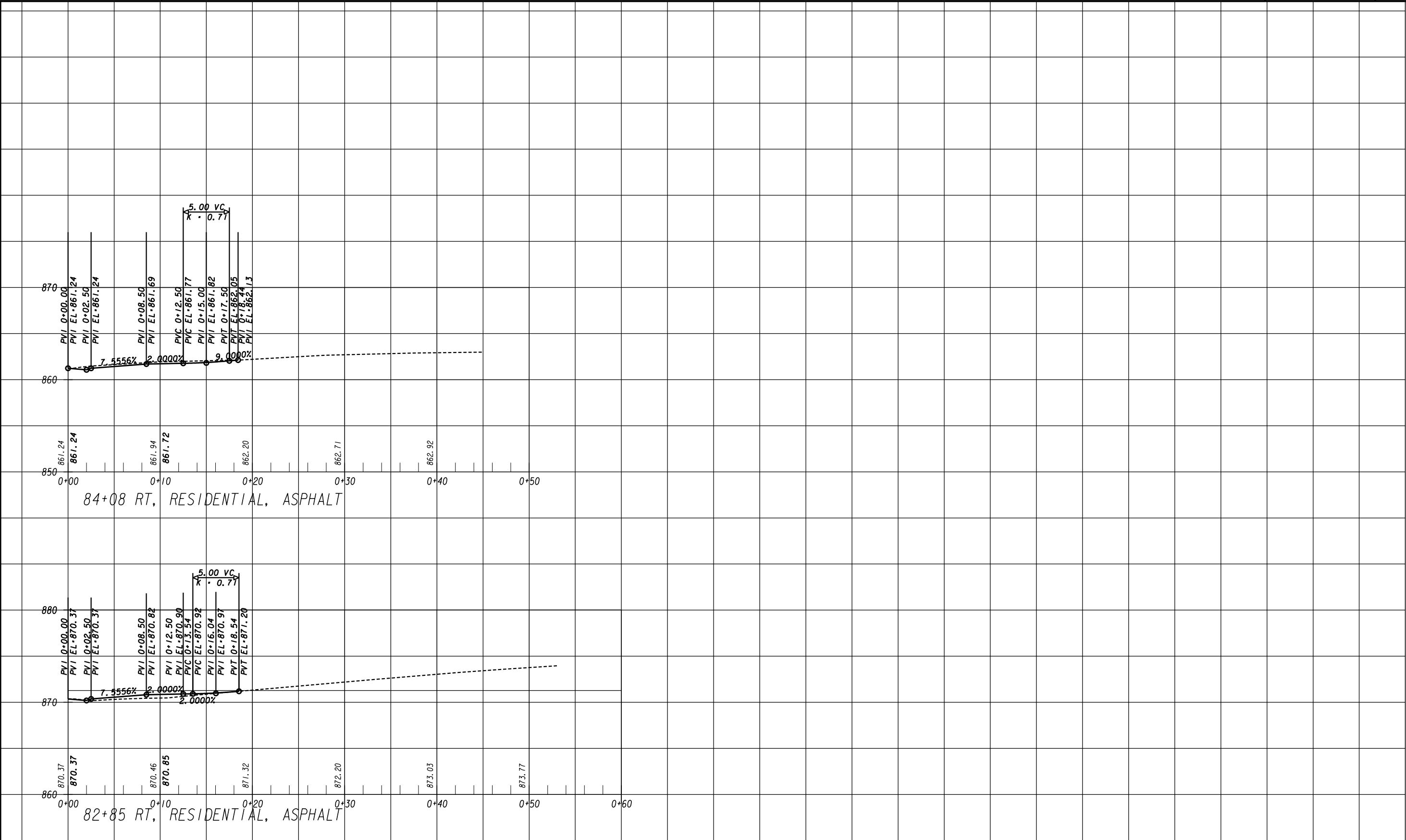
REVISION DATES	

DRIVEWAY PROFILE	
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD	
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DRAWING No. 17-0002	



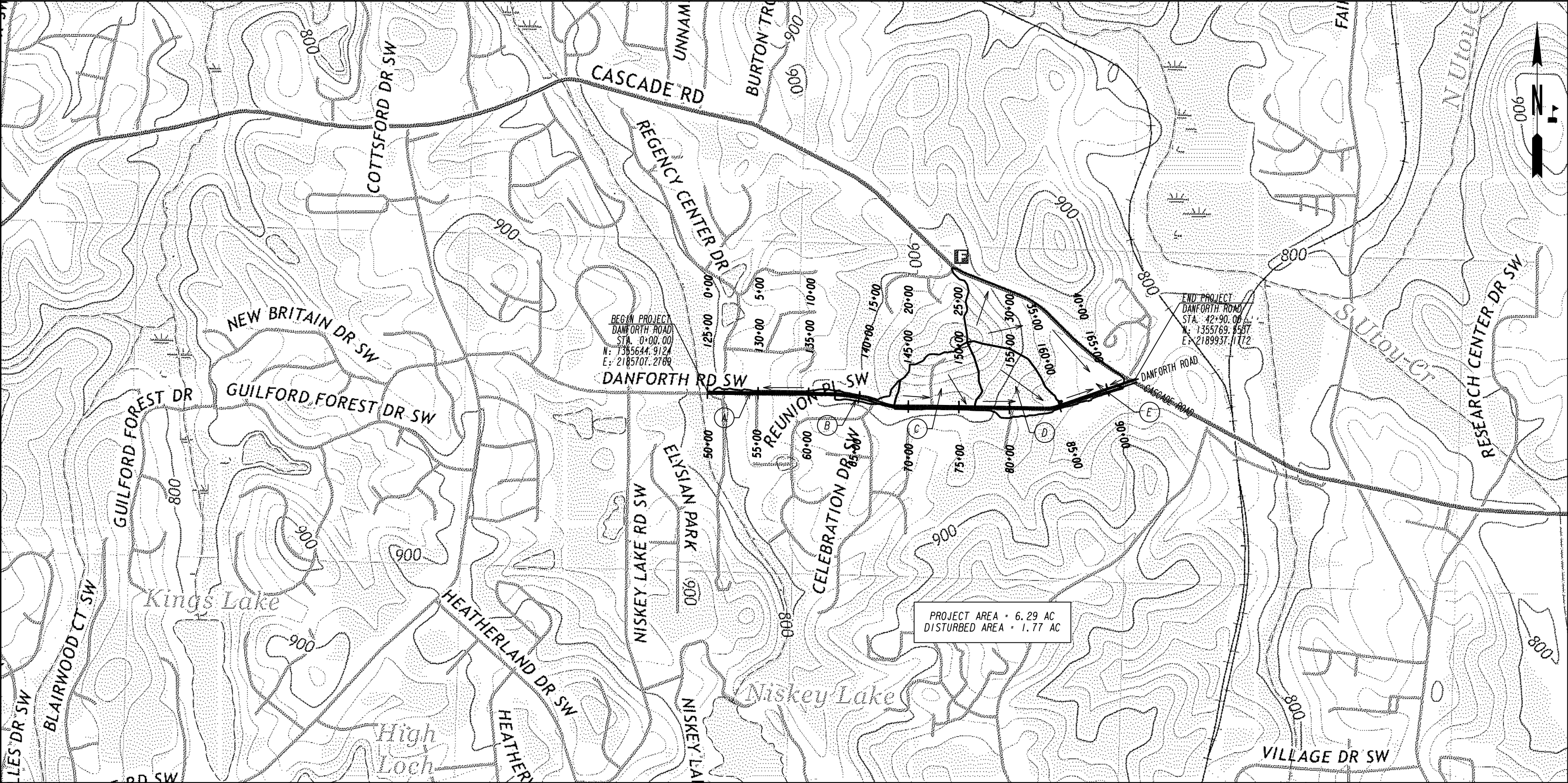


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Drainage Summary Table																	
Outfall	Structure Name	Station and Offset	Drainage Area (Acres)	Disturbed Area (Acres)	Structure Description	Design Storm (yr)	Check Storm (yr)	C pre	C post	Design Storm Q pre (cfs)	Design Storm Q post (cfs)	Check Storm Q pre (cfs)	Check Storm Q post (cfs)	Design Storm V pre (ft/s)	Design Storm V post (ft/s)	Check Storm V pre (ft/s)	Check Storm V post (ft/s)
A	A0	0+49.21, 19' LT	0.848	0.260	Existing 18" RCP	10	50	0.85	0.81	2.39	4.94	3.24	6.83	3.70	4.78	4.11	5.47
B	B1	15+11.56, 10' LT	1.142	0.212	18" RCP	10	50	0.64	0.69	5.54	5.92	7.54	8.11	7.08	4.30	9.64	5.91
C	C0	75+25.38, 27' RT	9.348	0.451	Existing 36" RCP	10	50	0.42	0.43	14.68	16.13	21.03	22.02	4.30	4.56	6.15	6.23
D	D0	85+43.59, 17' RT	9.900	0.521	Existing 18" CMP	10	50	0.24	0.30	7.88	11.05	10.64	14.94	5.04	6.41	6.78	8.67
E	E0	91+53.84, 25' RT	20.336	0.170	Existing 30" RCP	10	50	0.37	0.36	20.54	19.01	27.89	25.80	5.56	5.35	7.53	7.26



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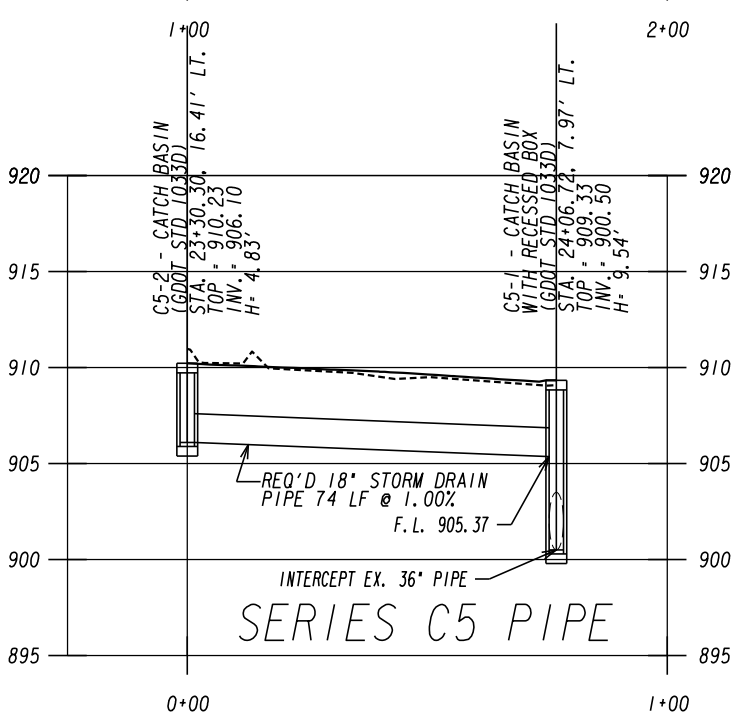
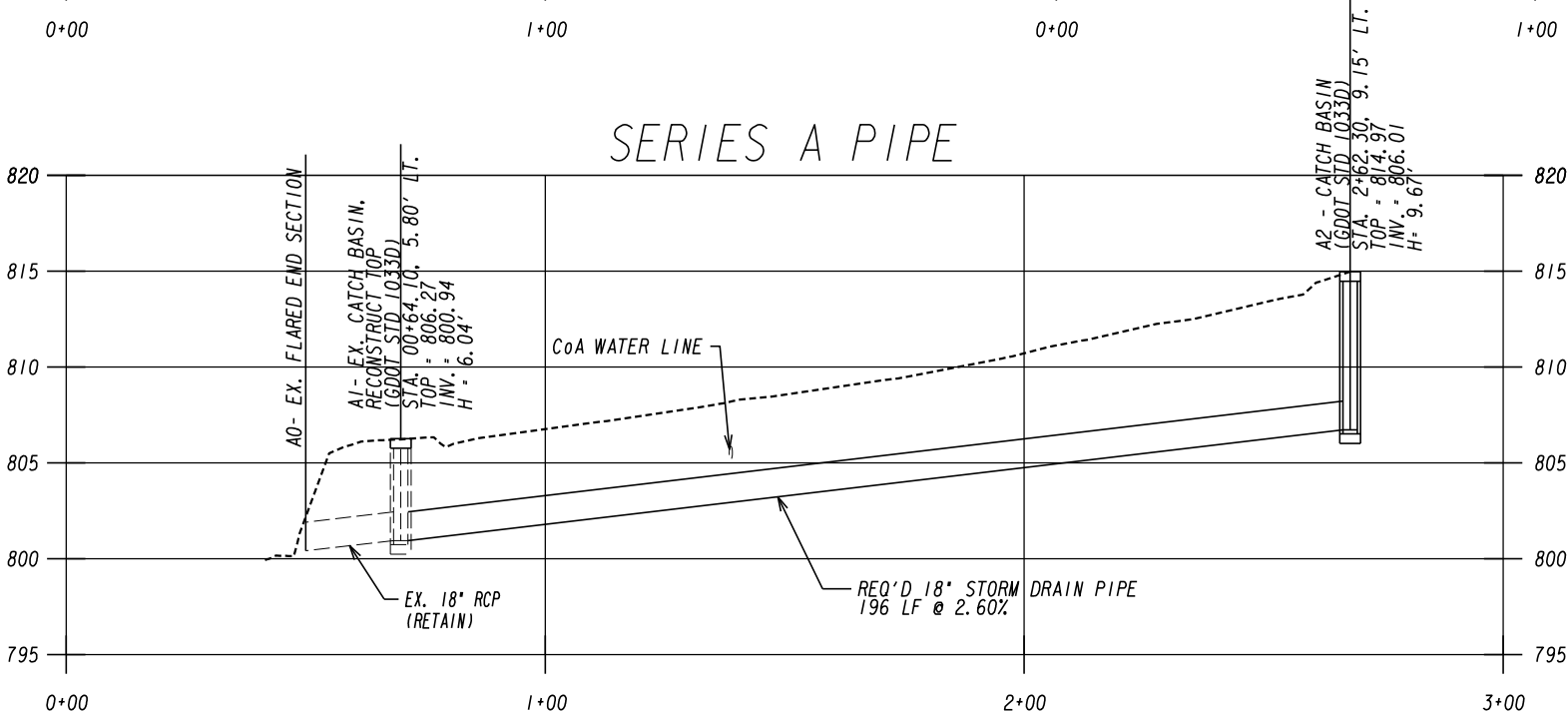
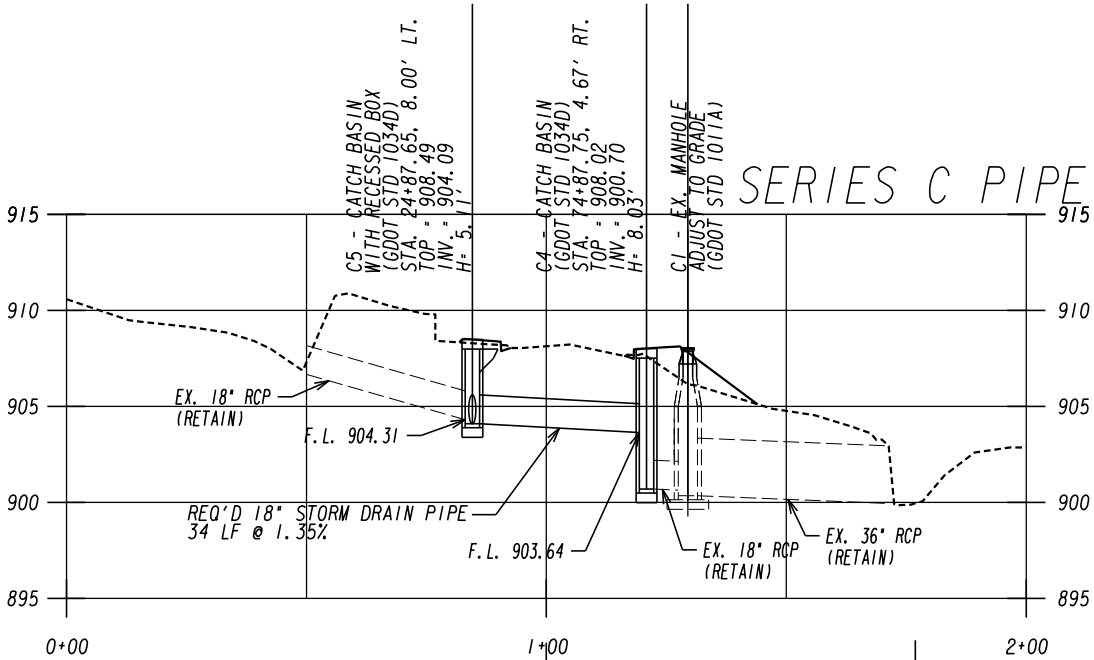
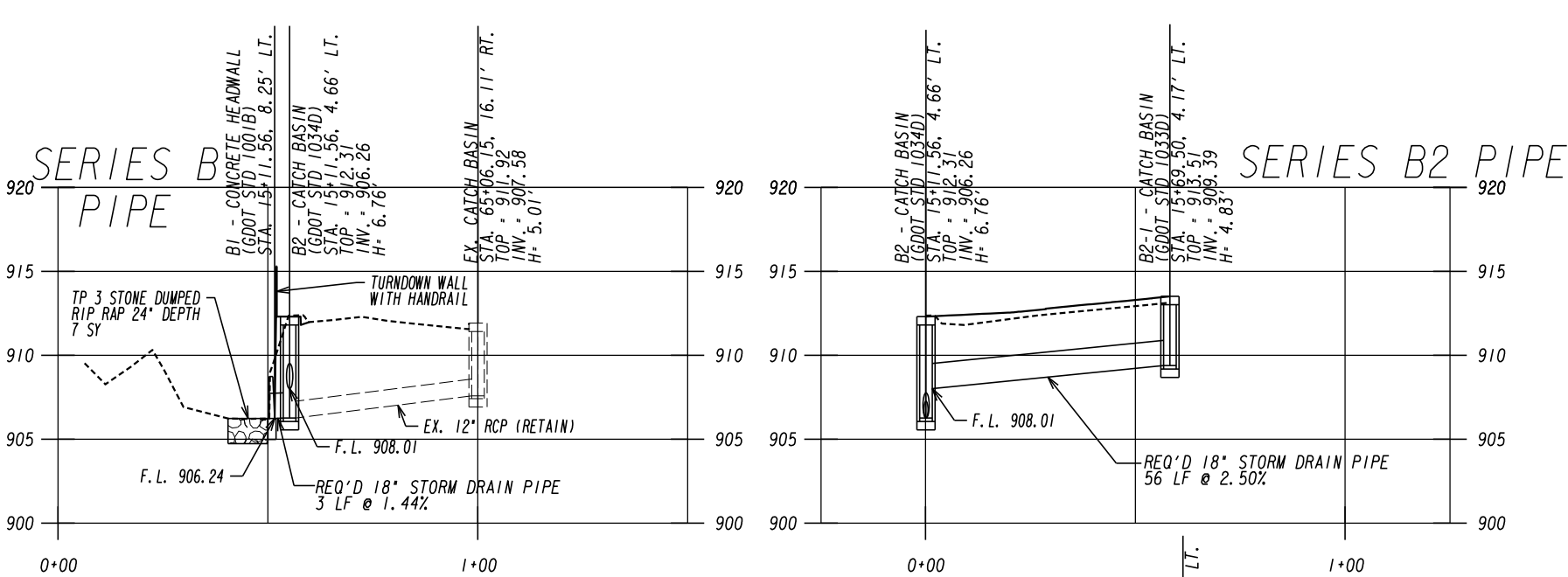
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DRAINAGE AREA MAP
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD
CHECKED: [] DATE: []
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21-0001



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1" = 20' HORIZONTAL
1" = 5' VERTICAL

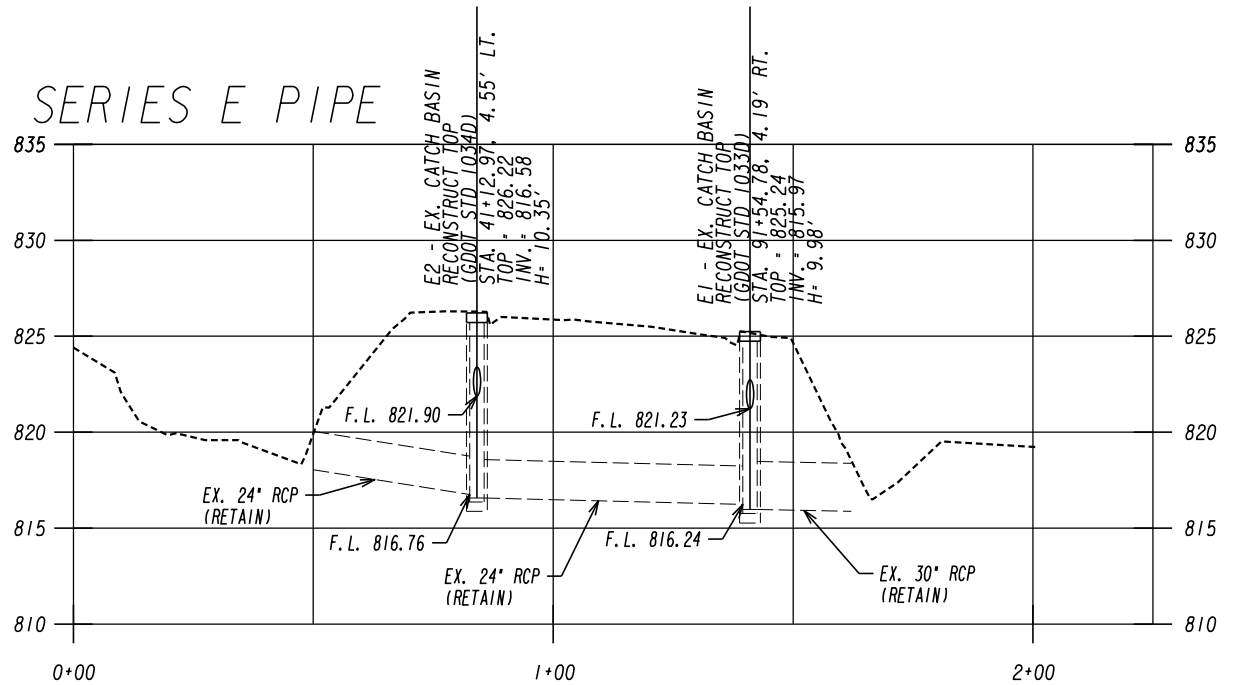
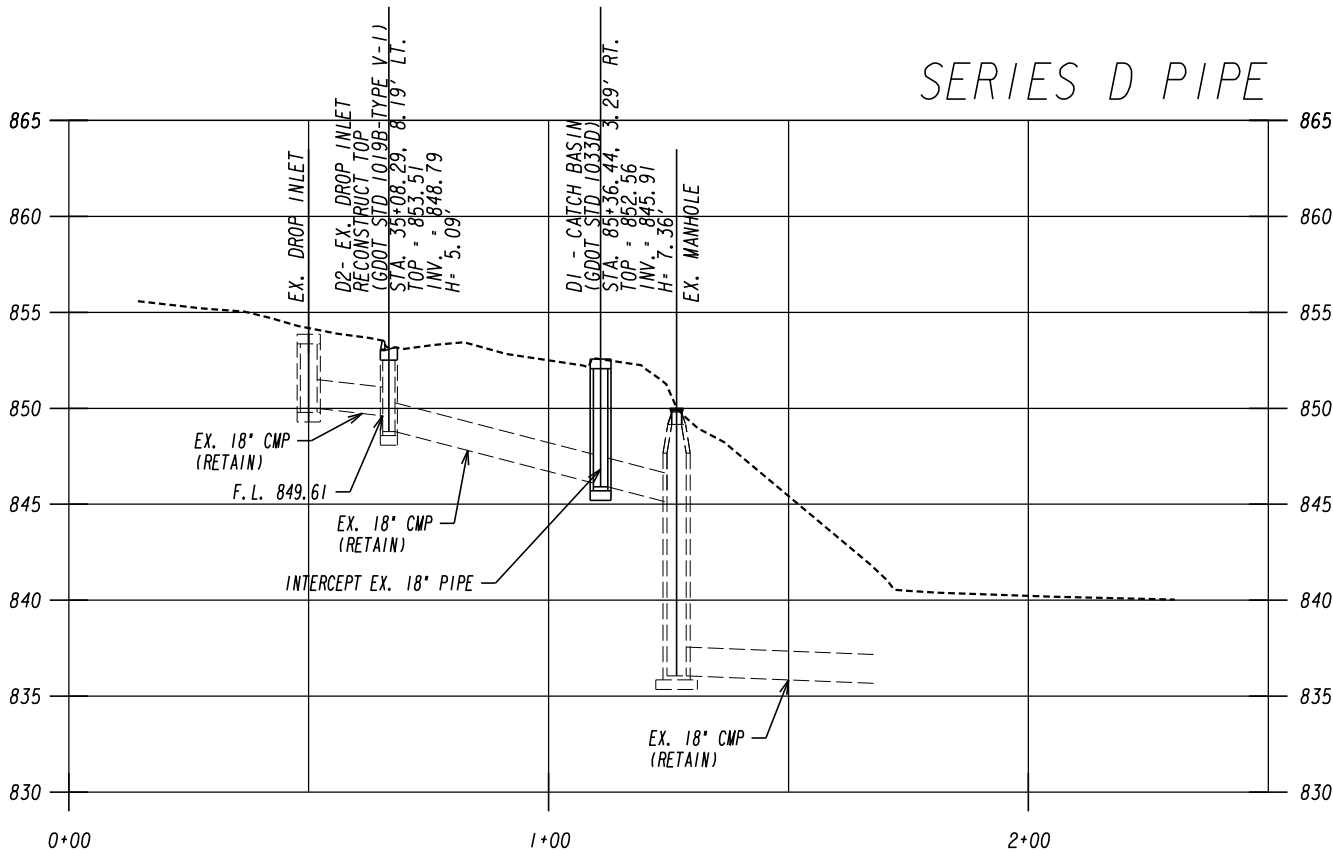
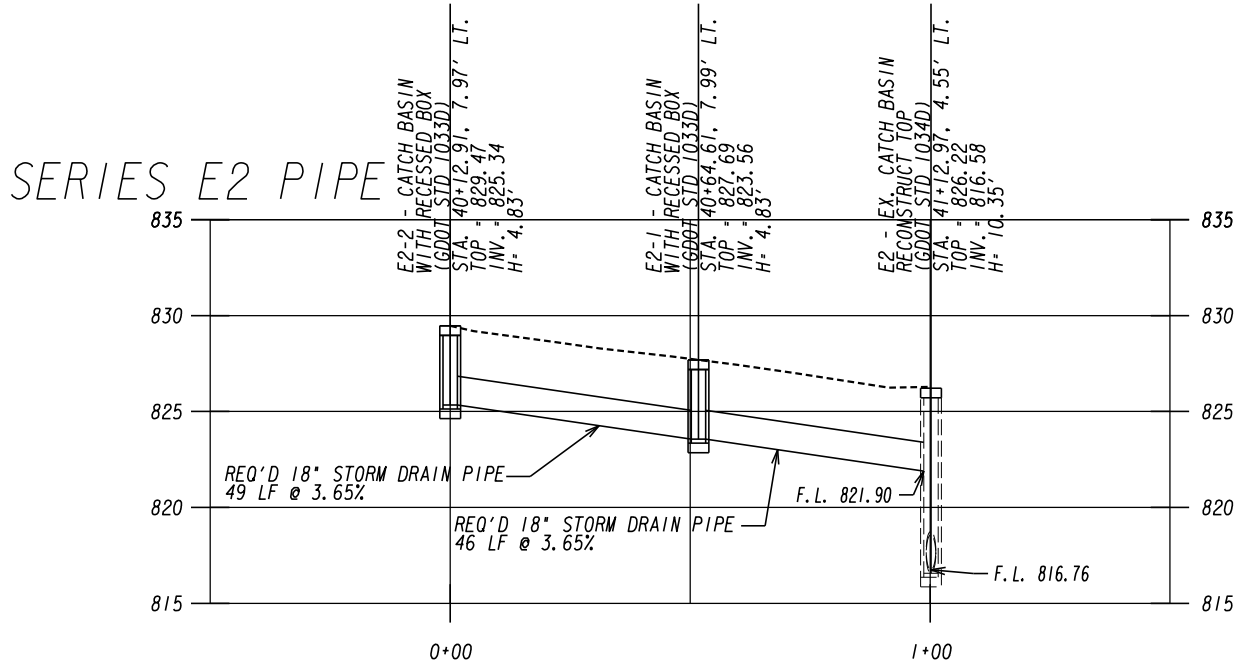
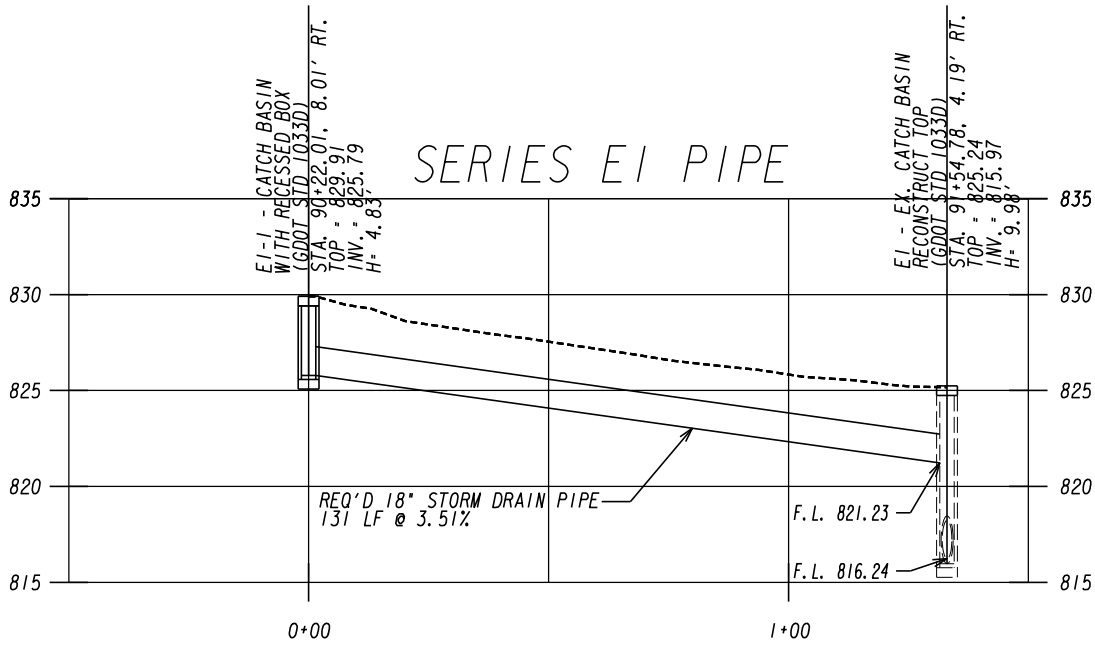
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DRAINAGE PROFILES

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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22-0001



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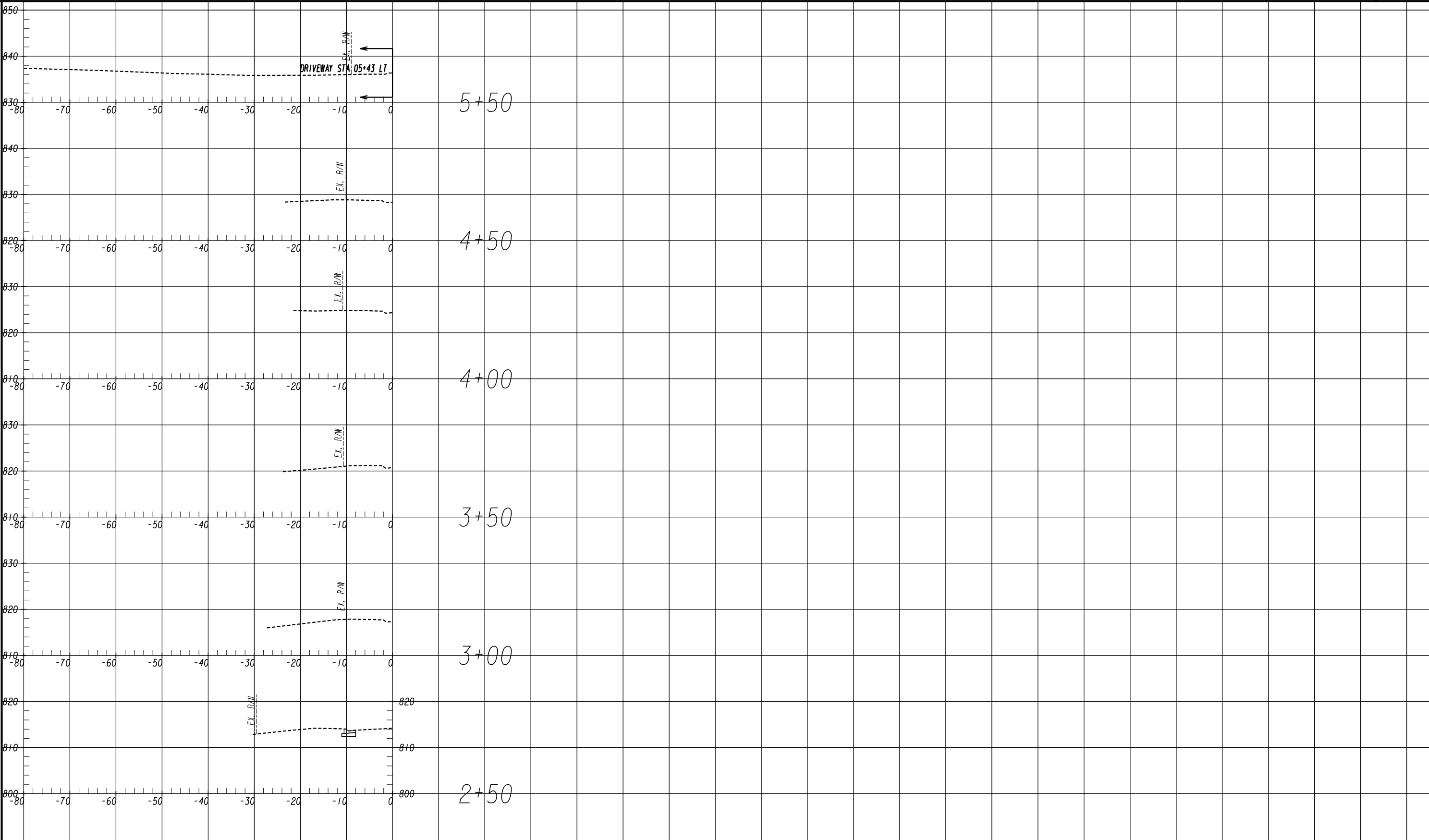
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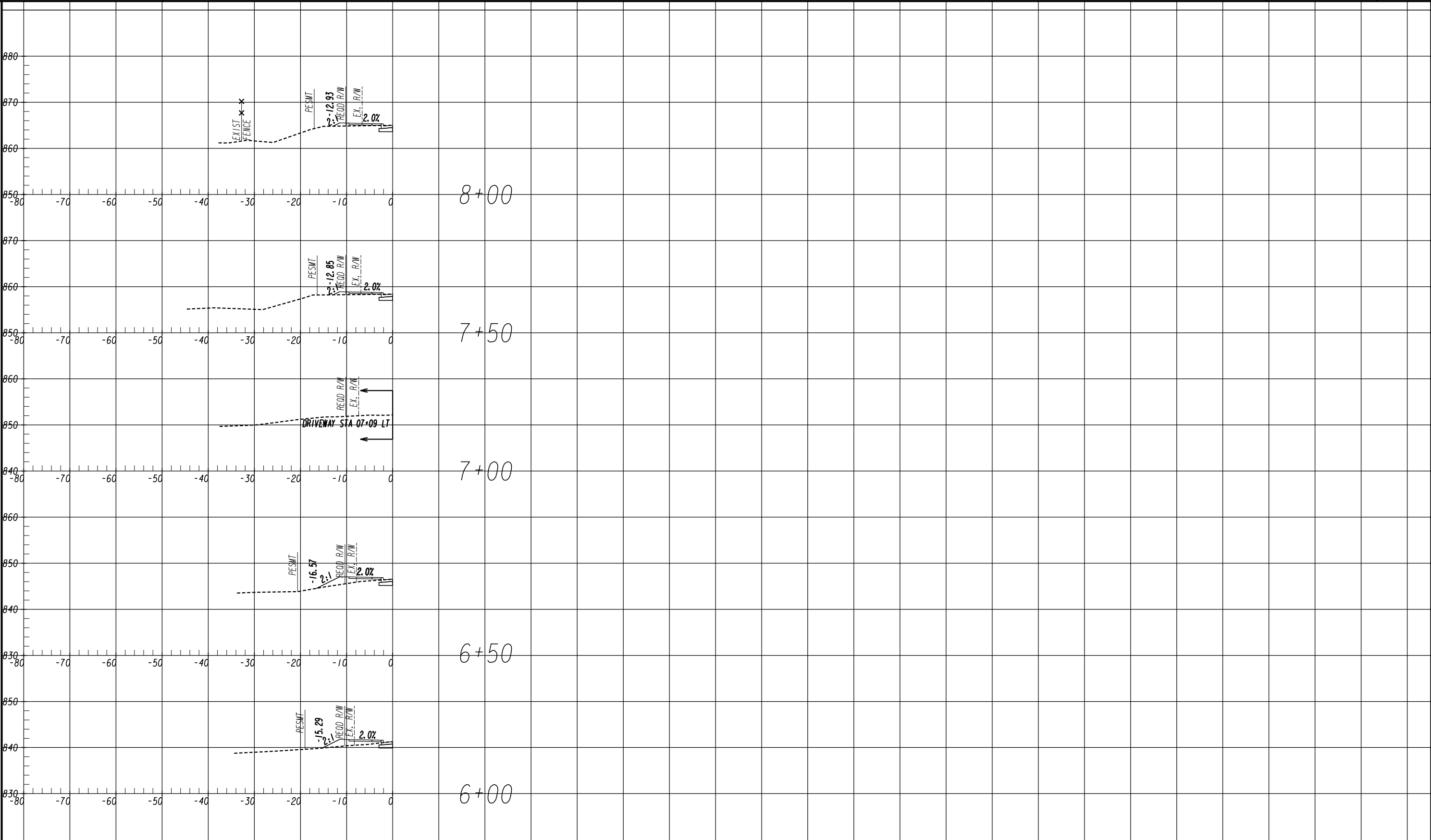
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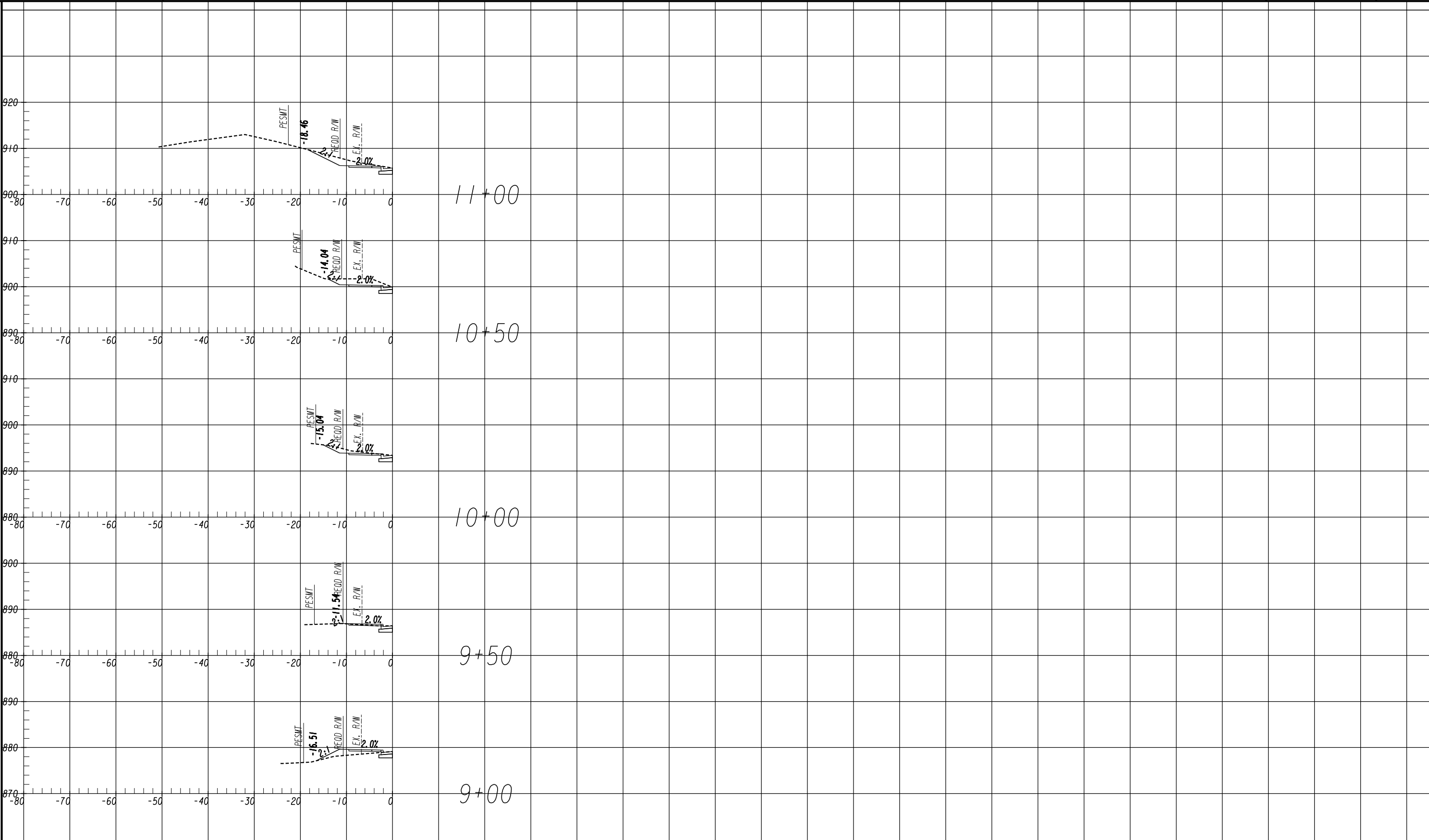
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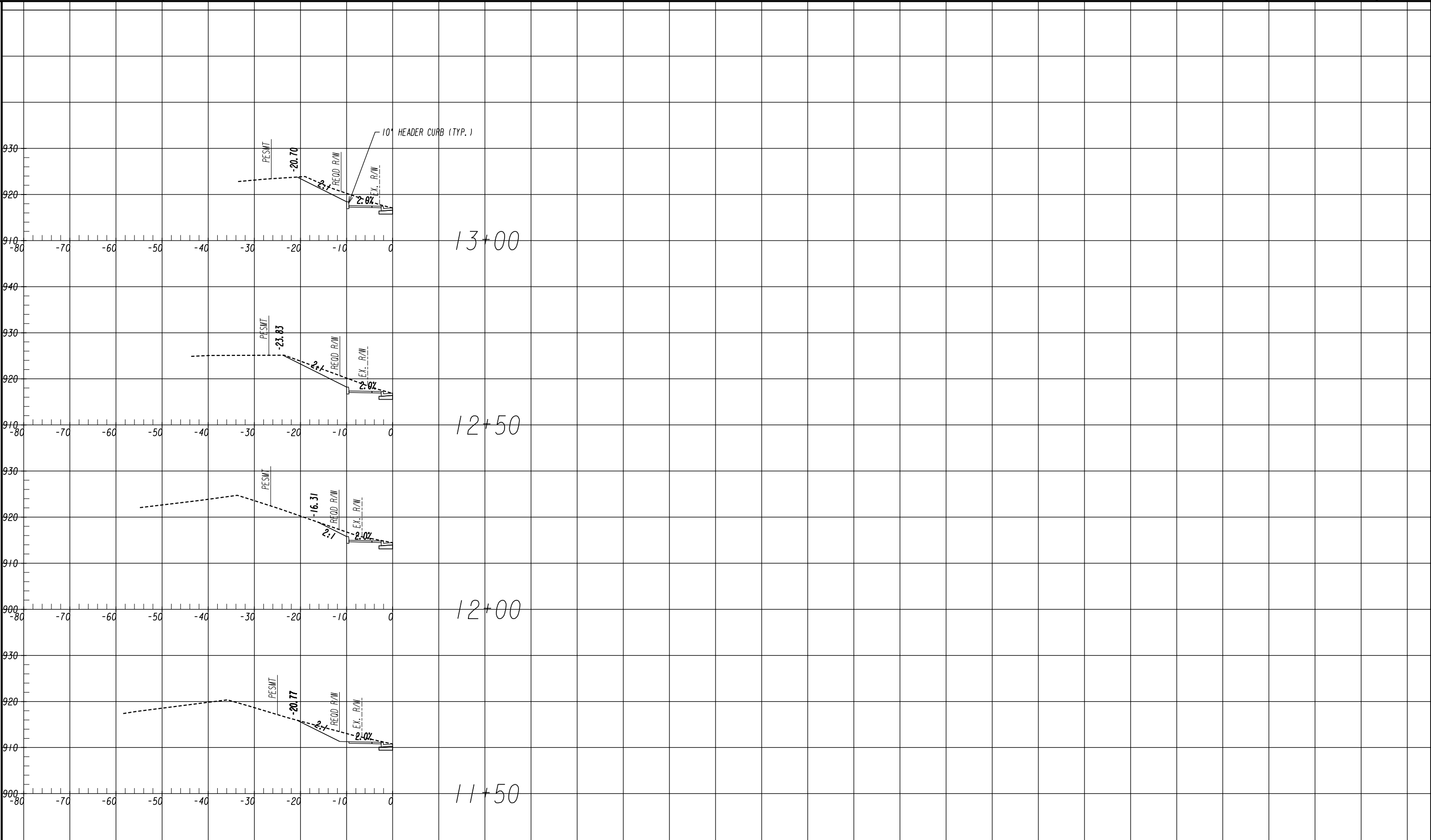
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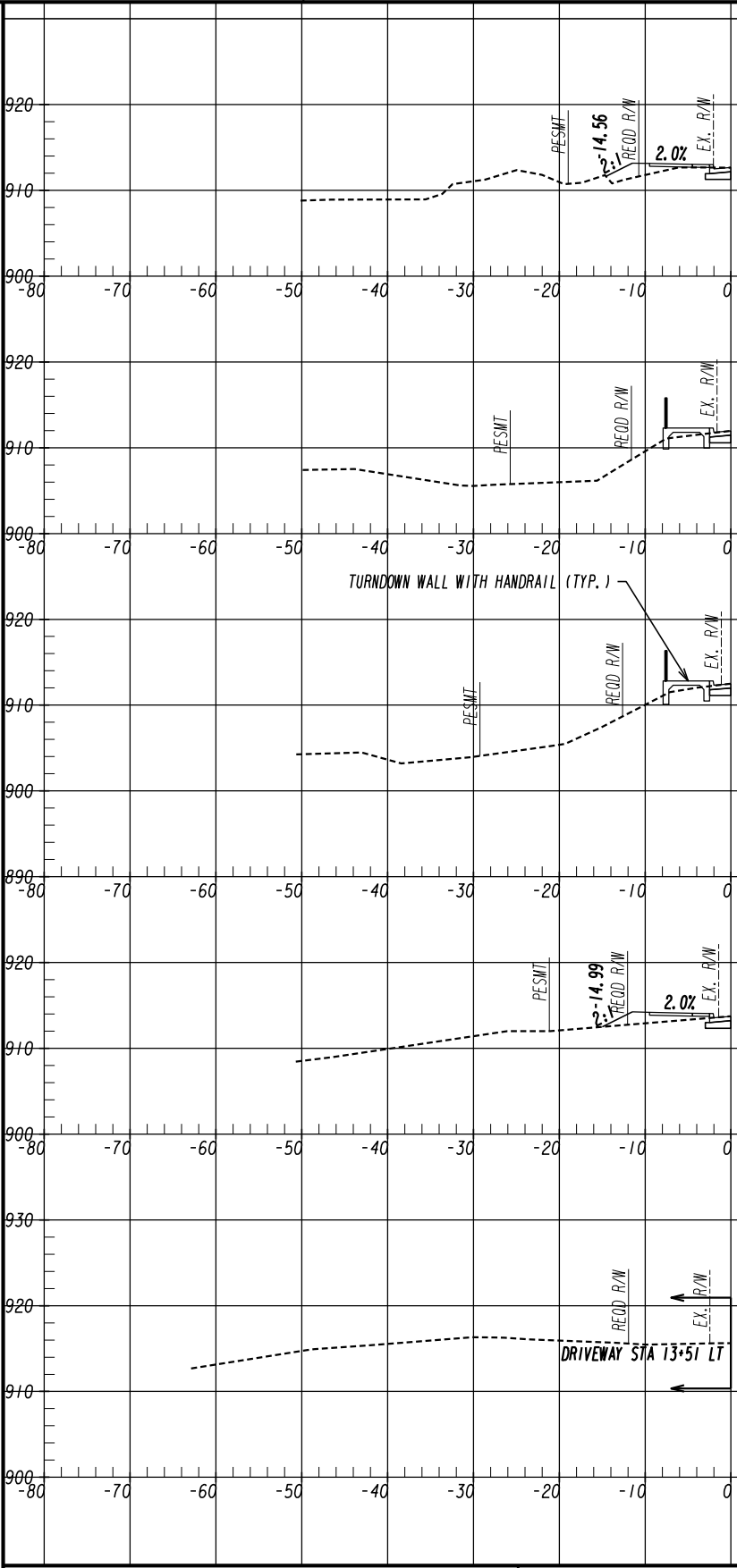
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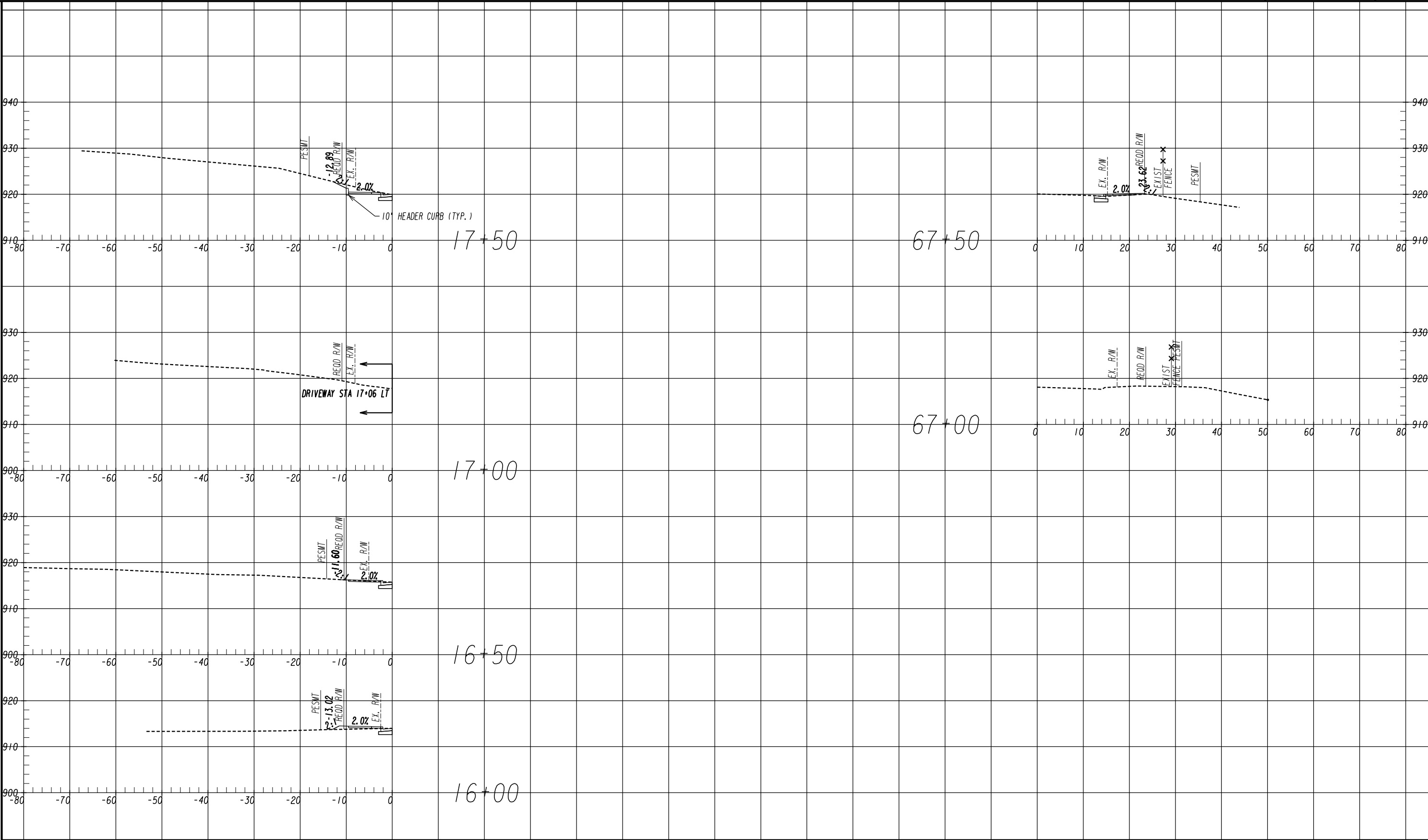
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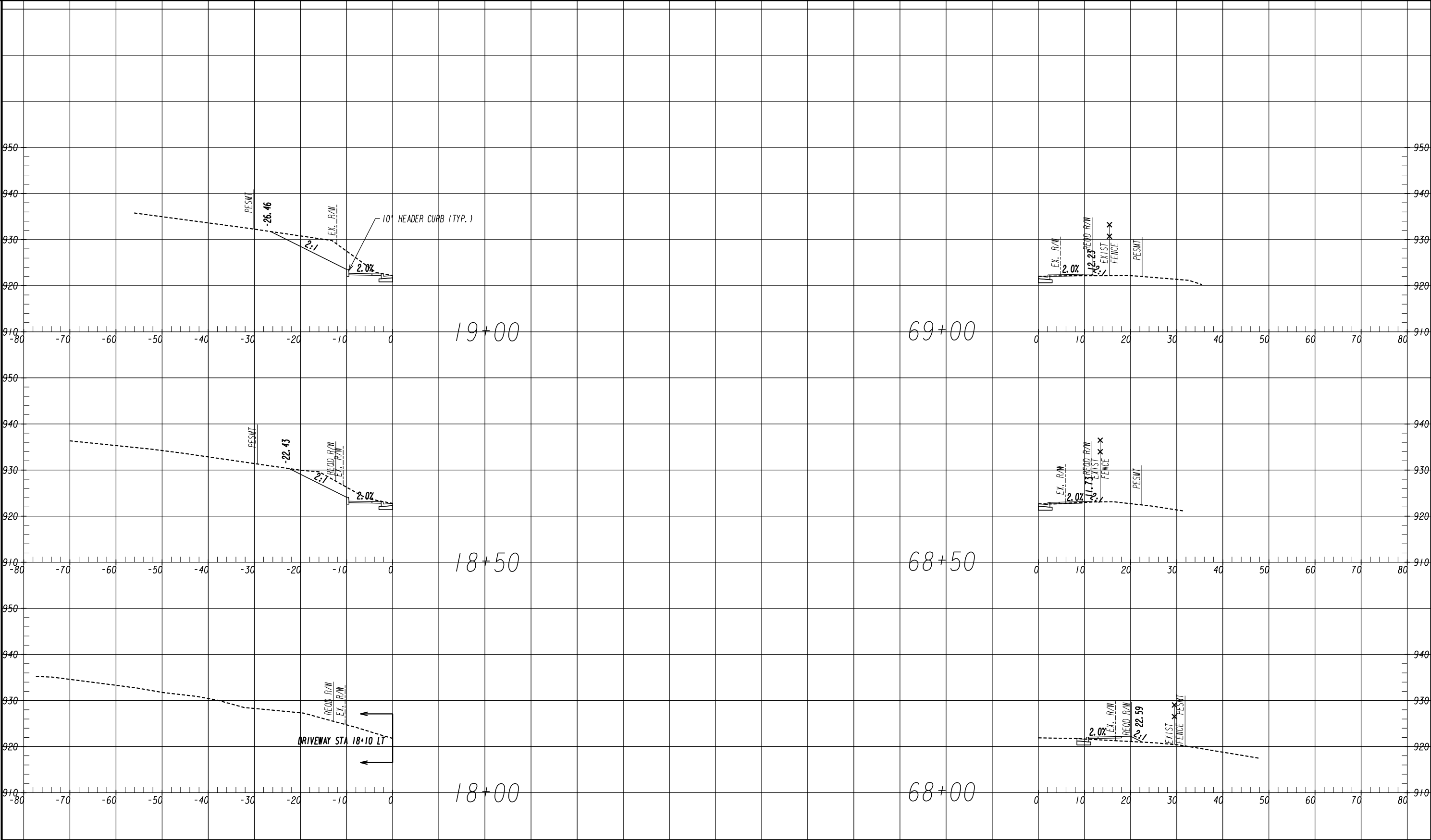
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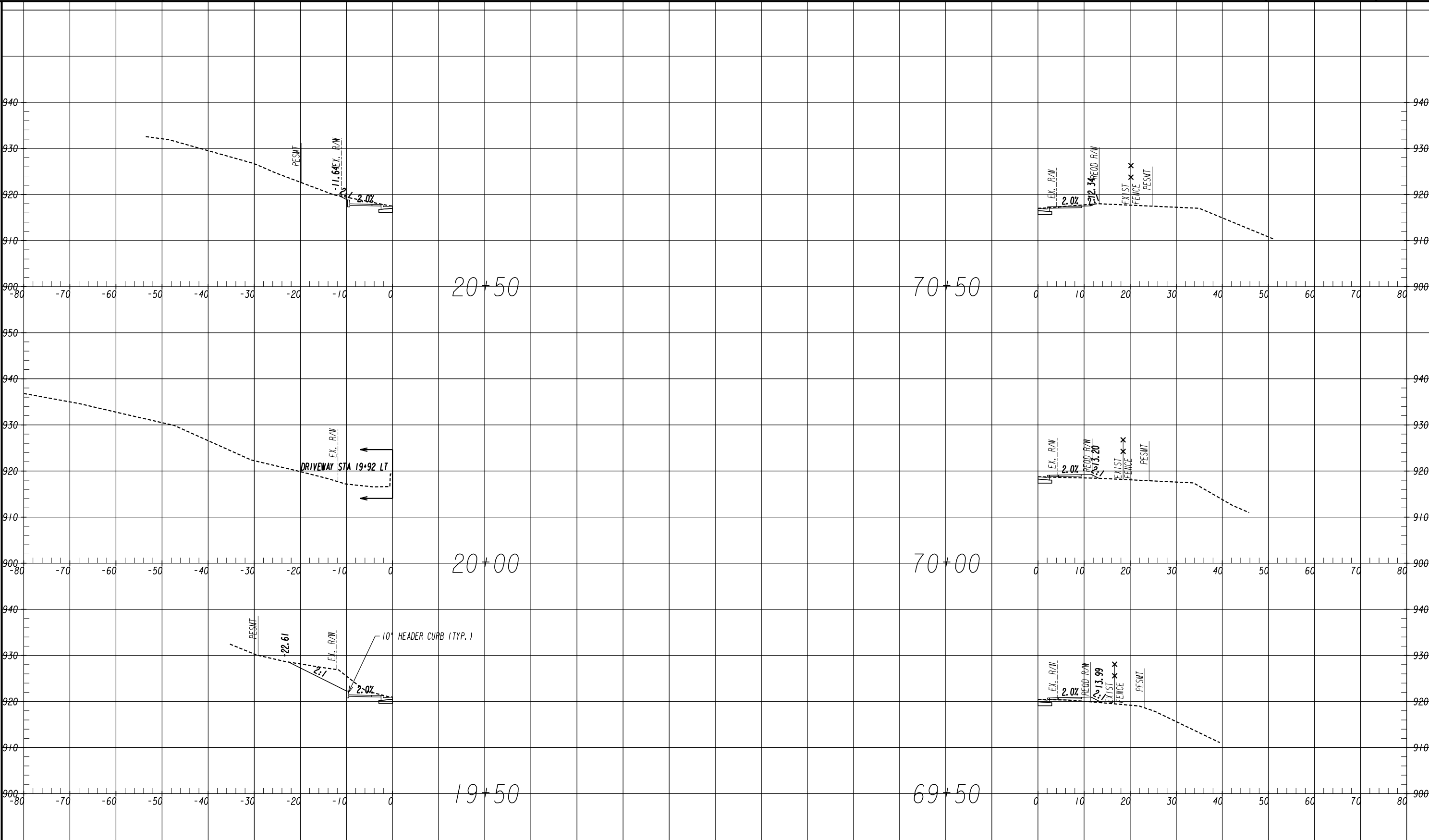
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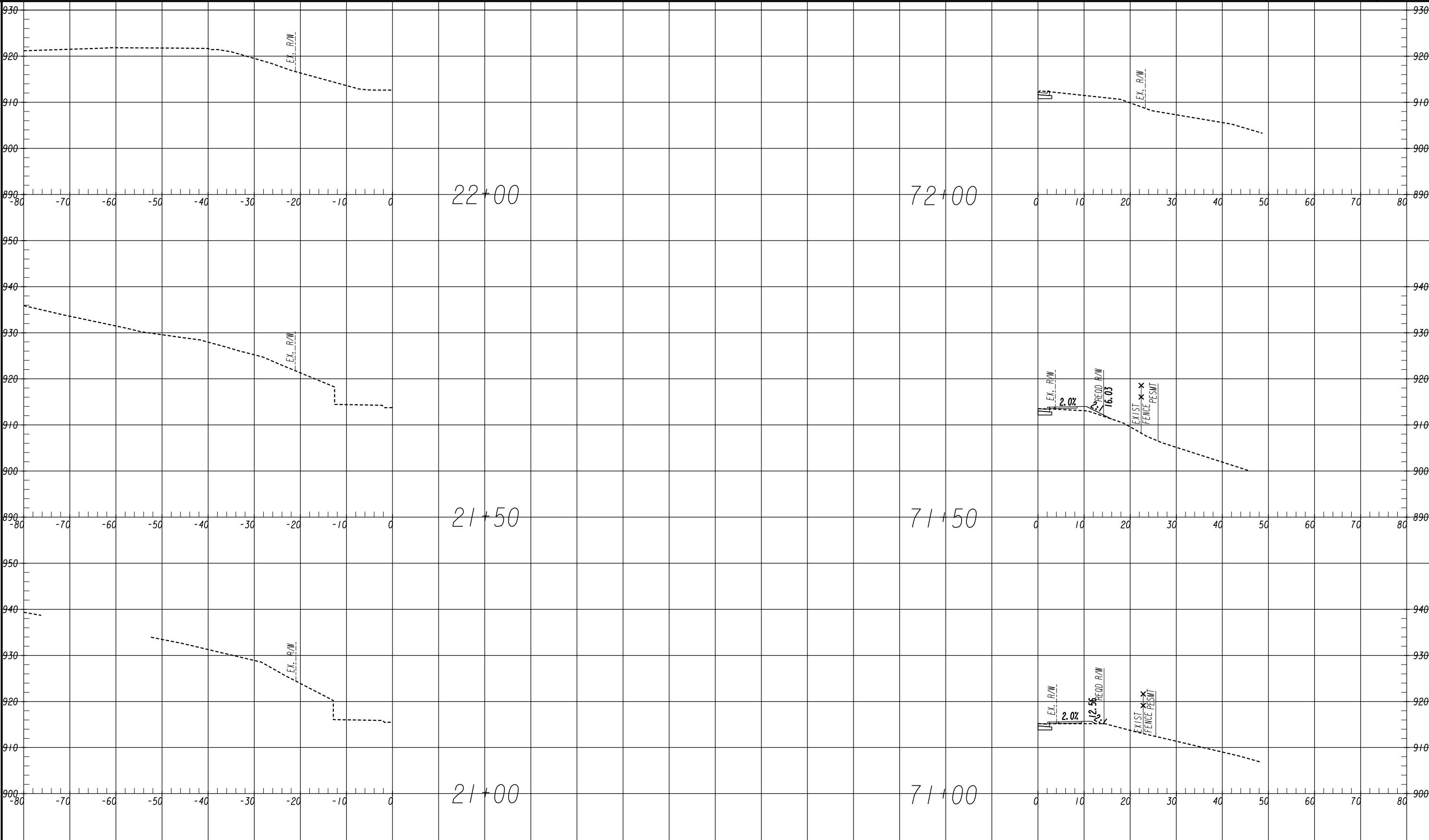
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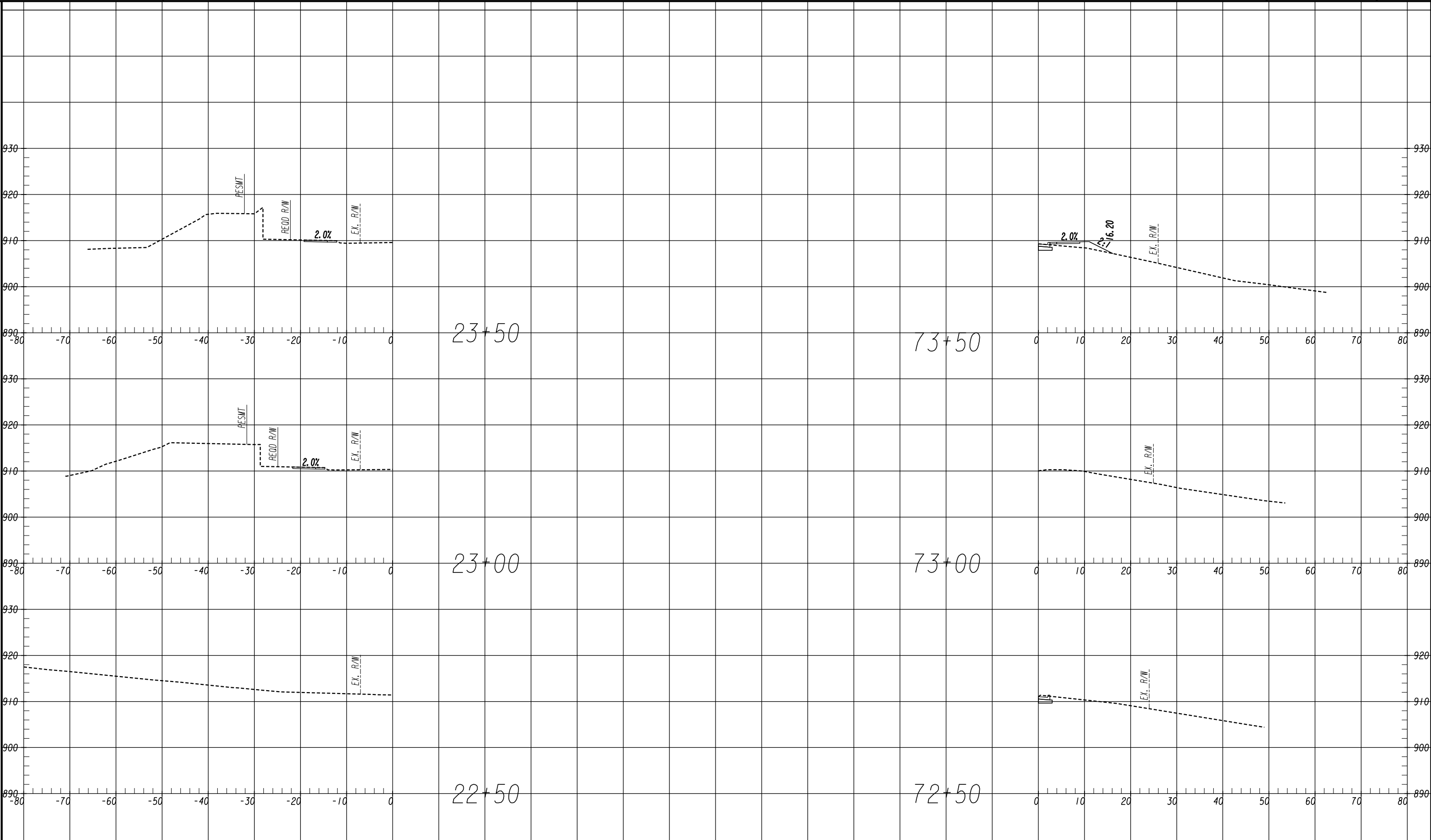


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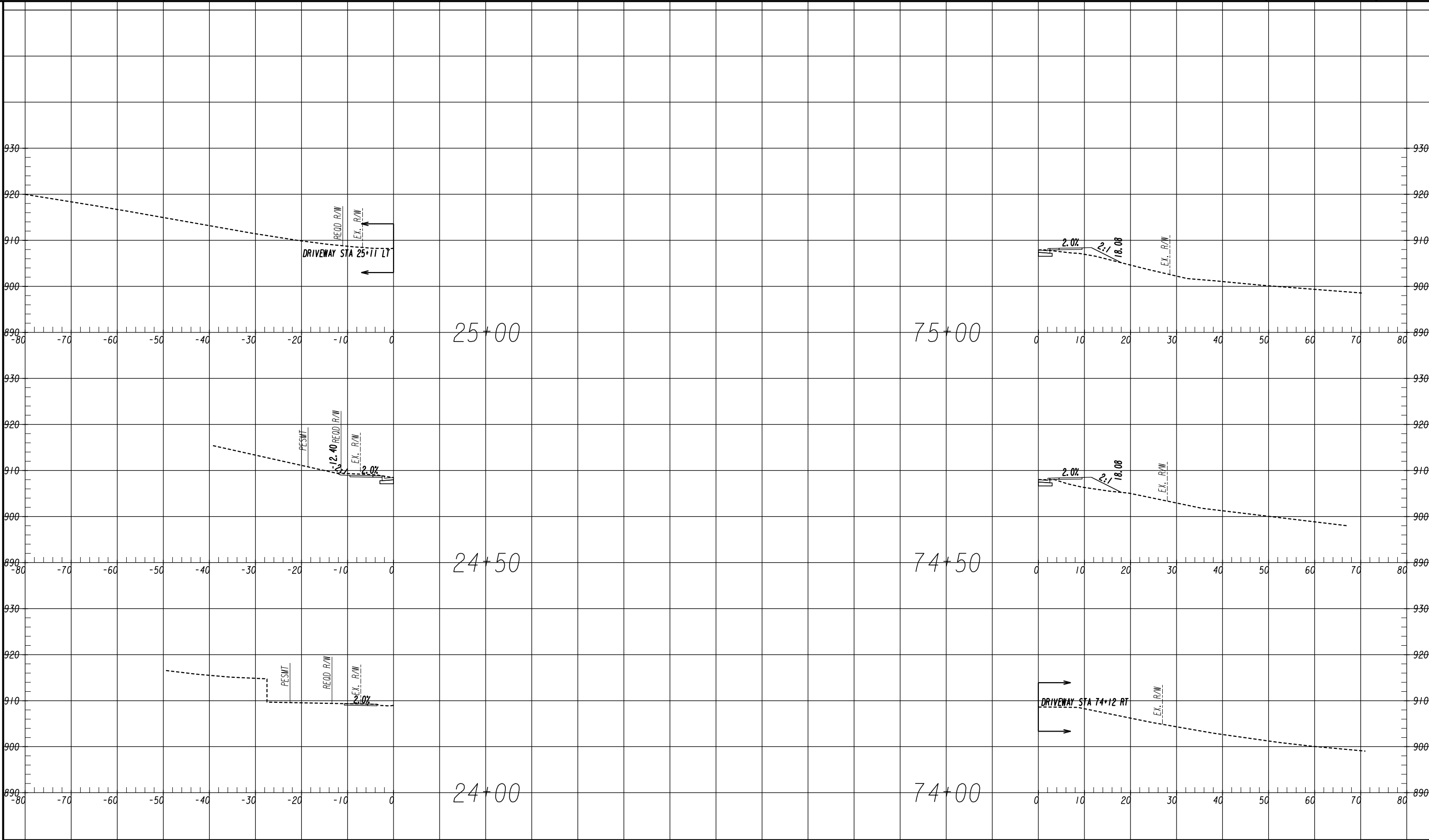
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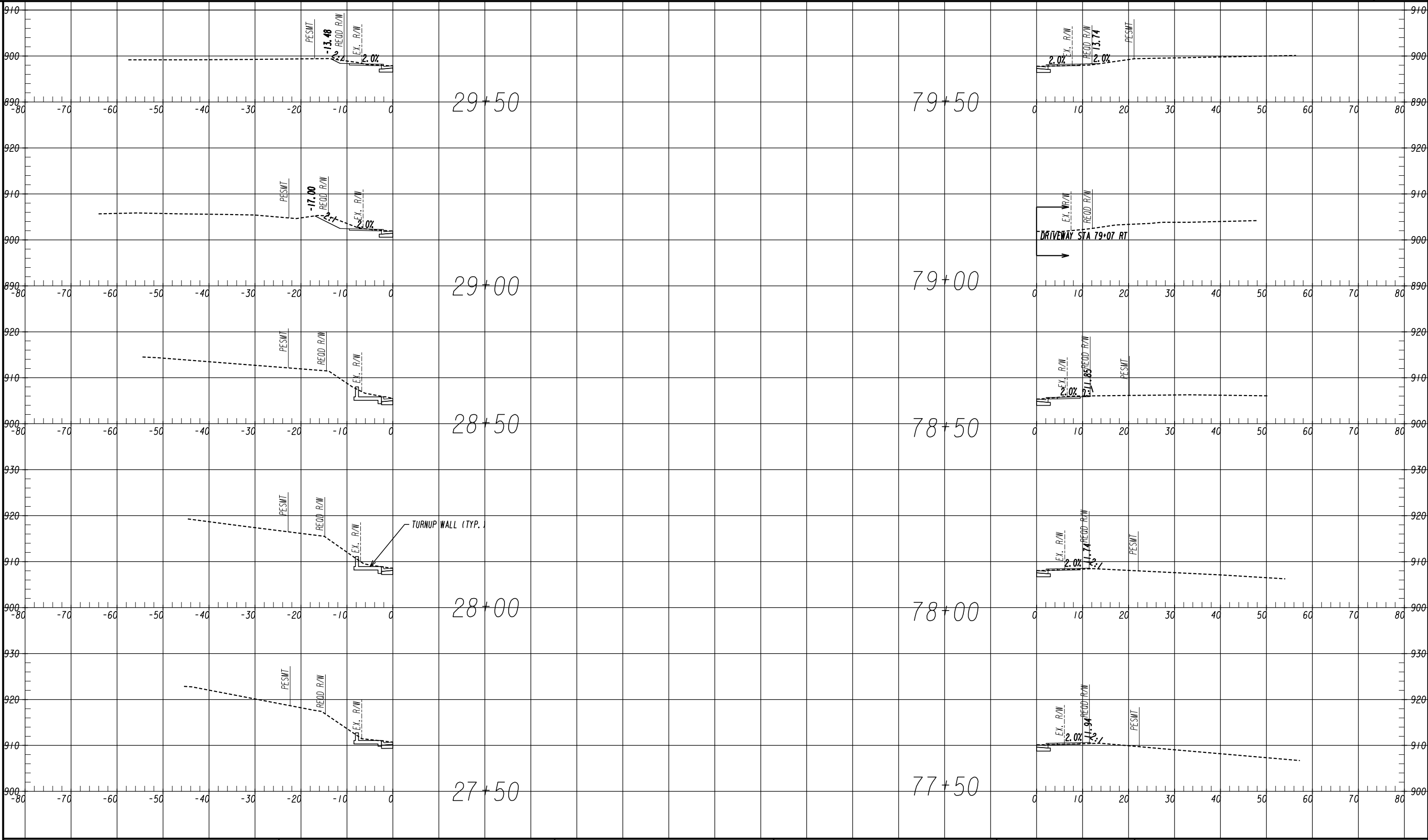
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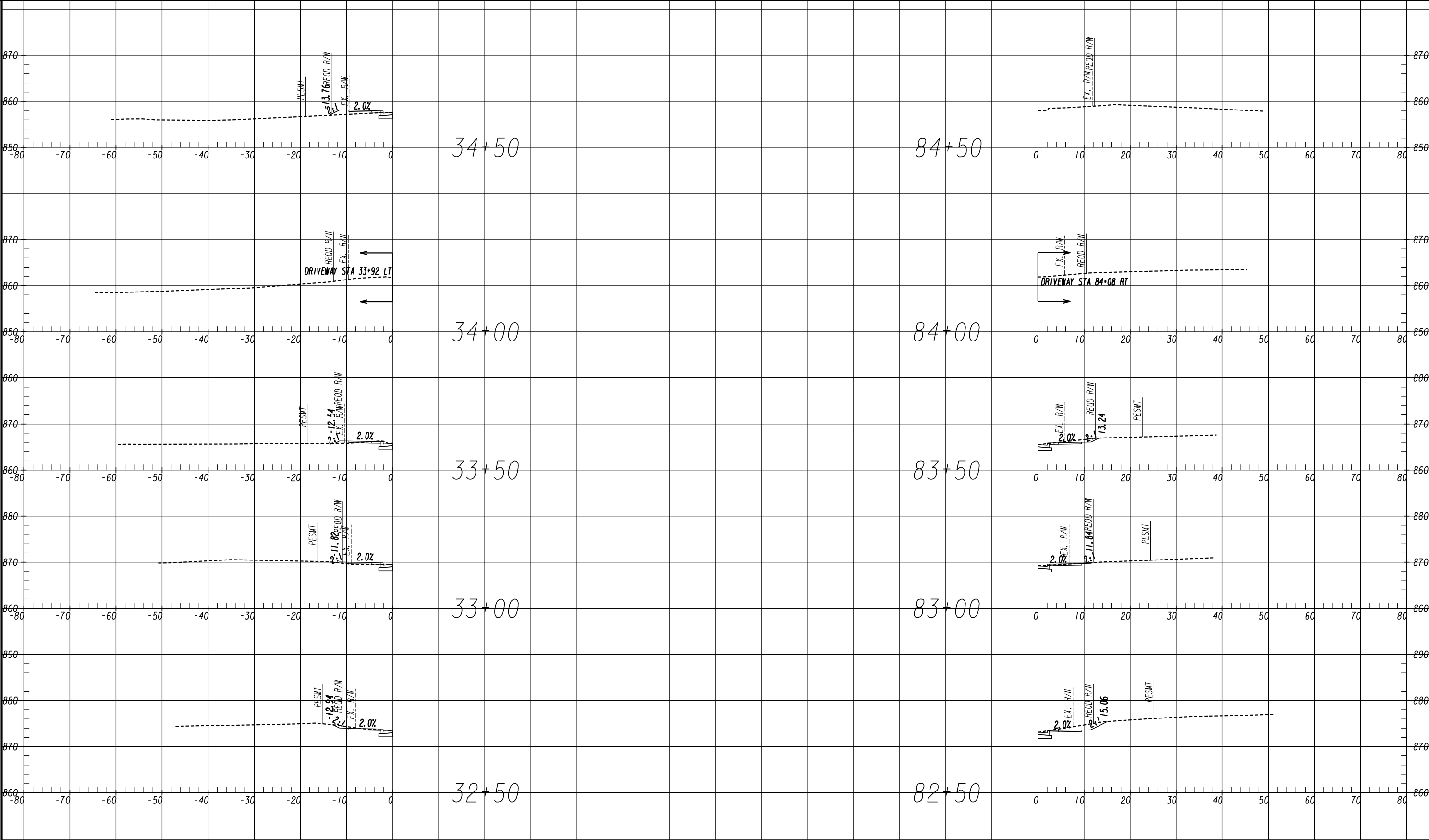
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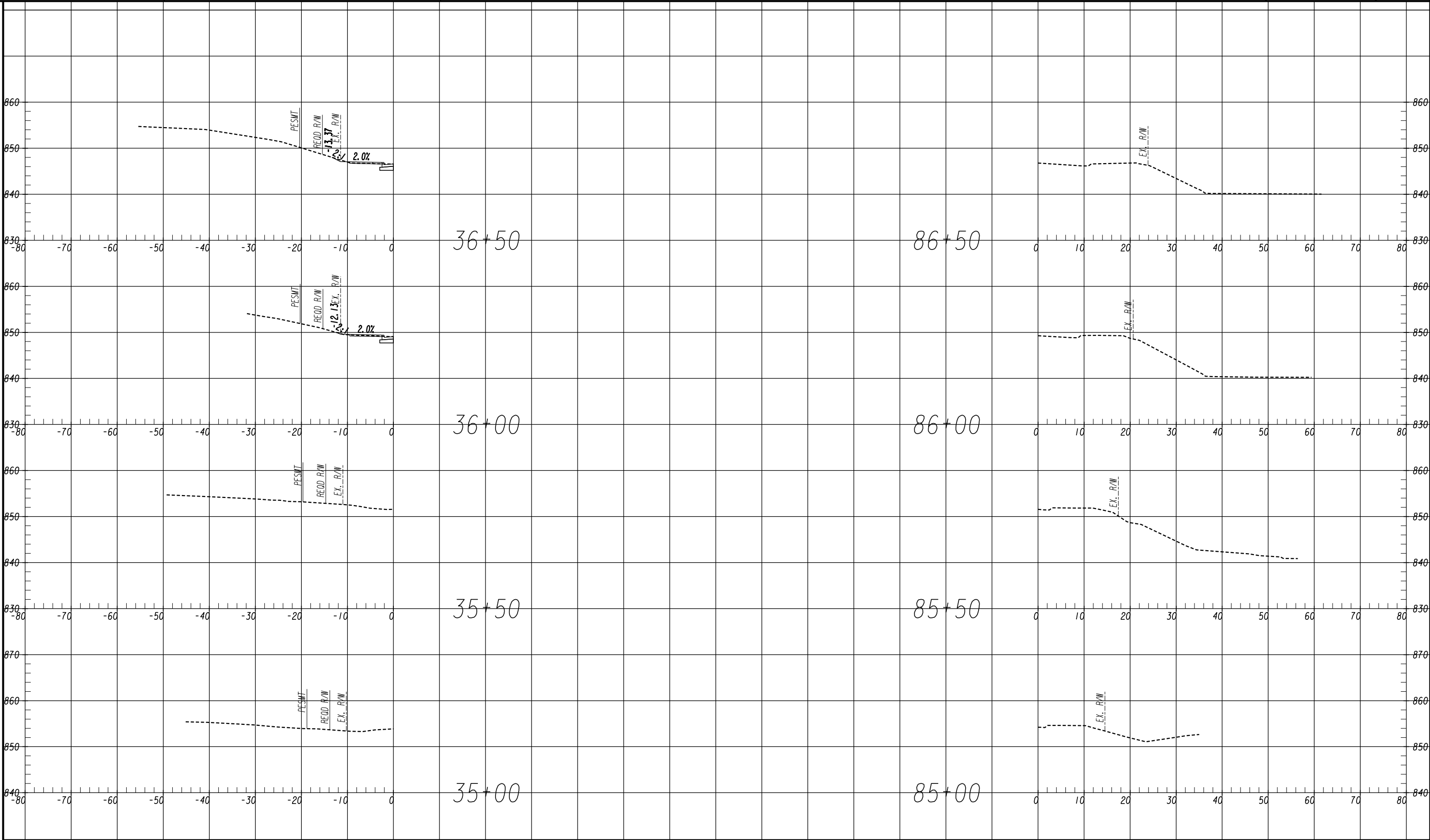
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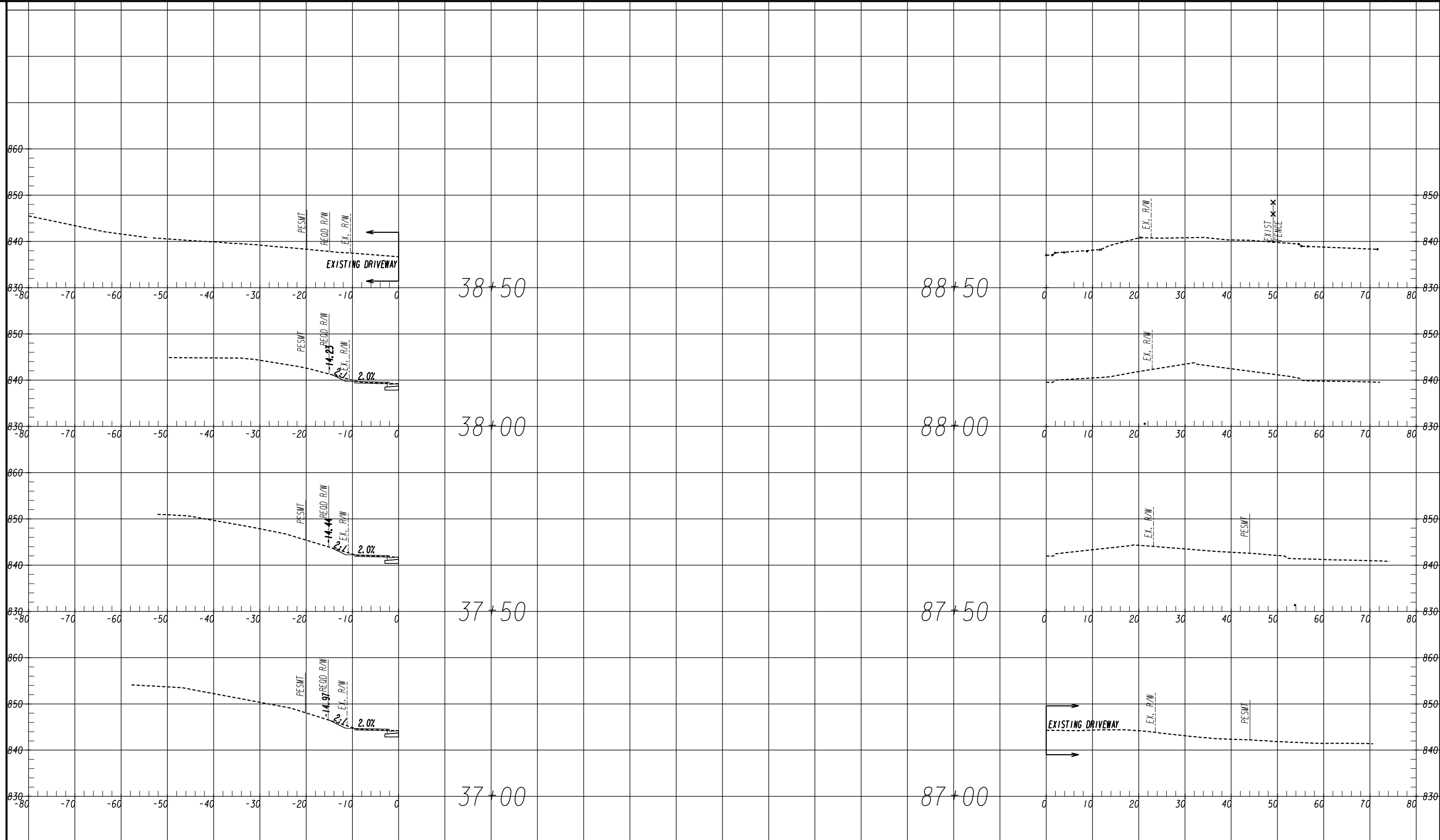
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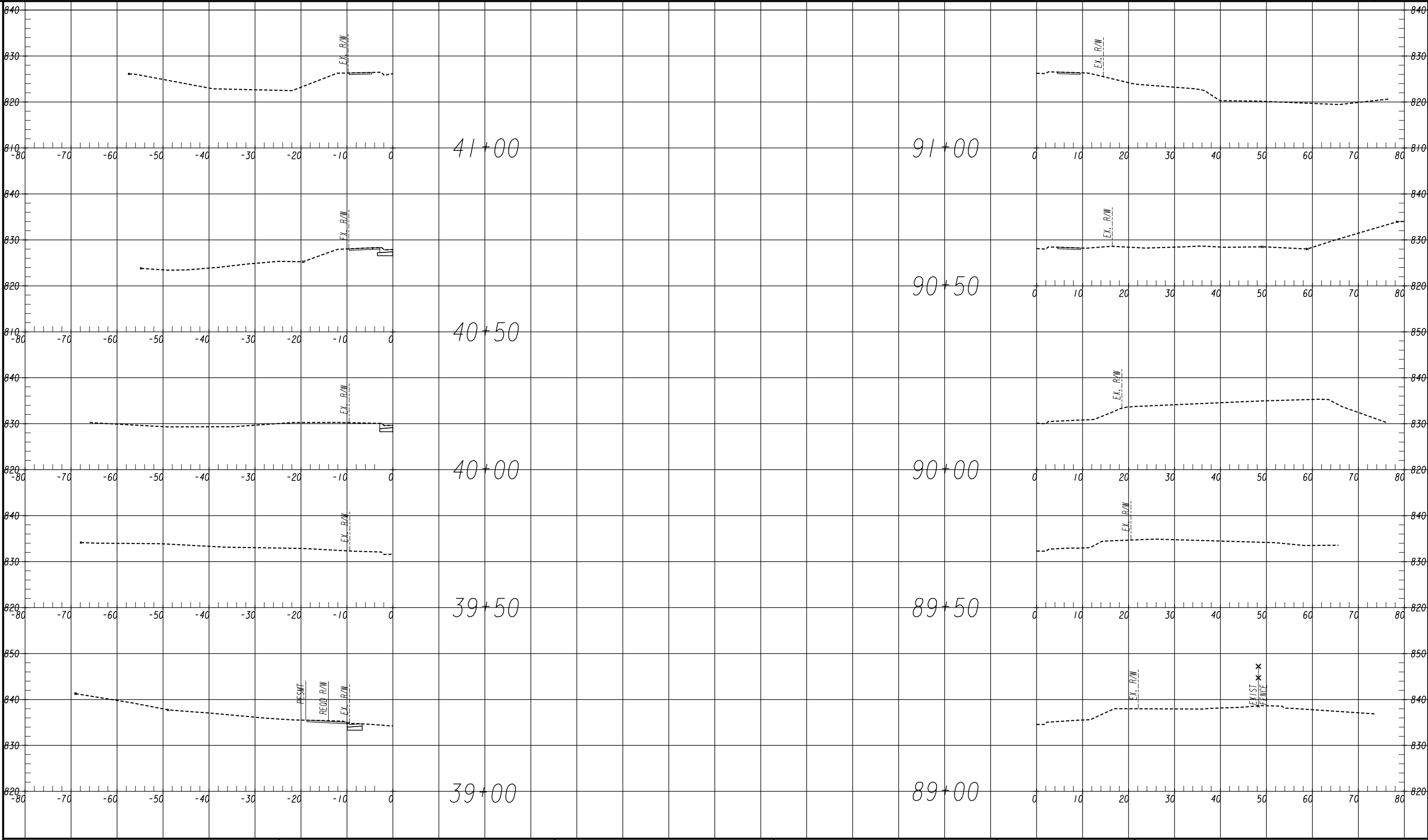
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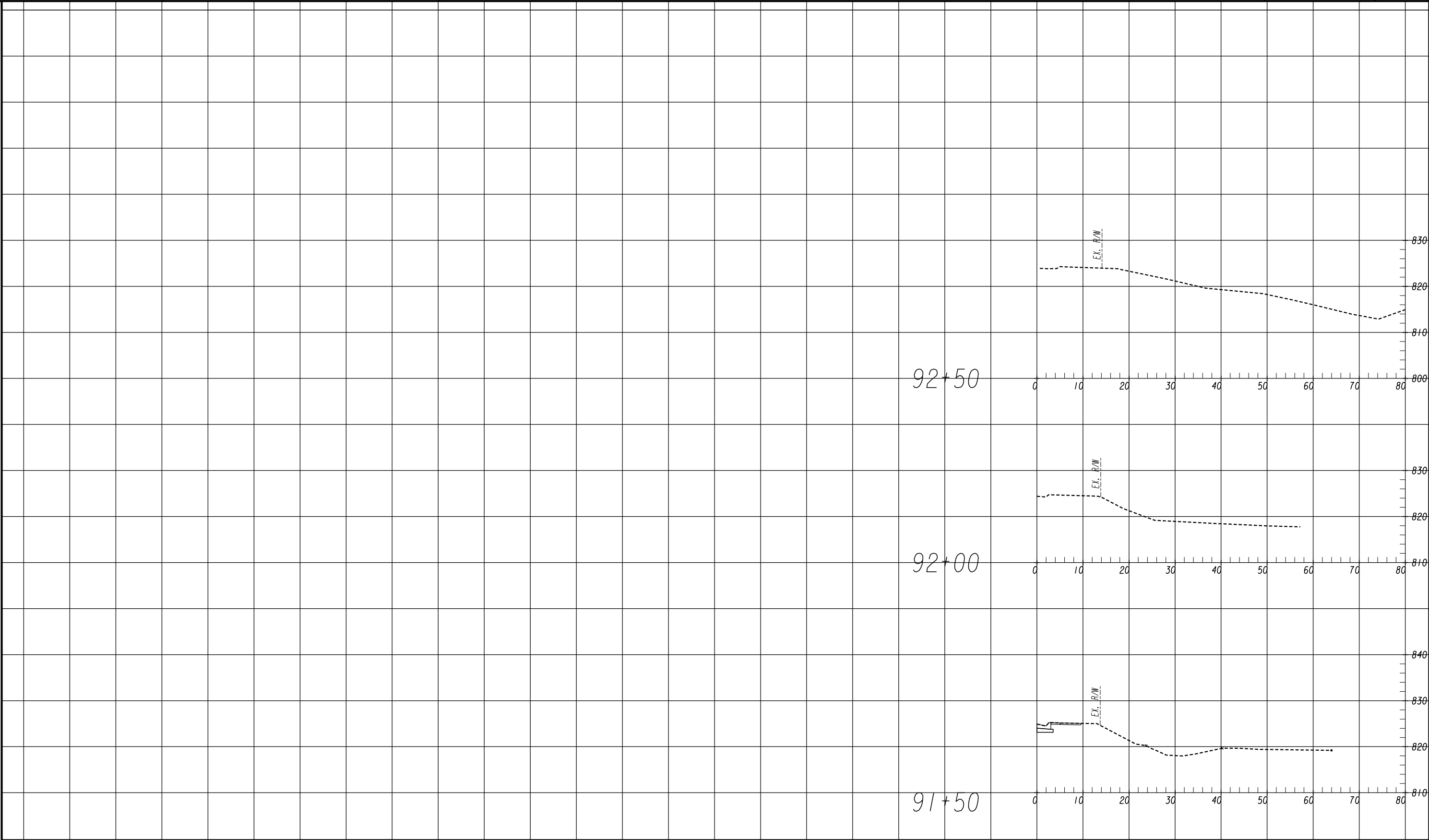


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SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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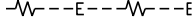
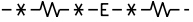
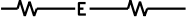
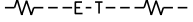
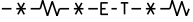
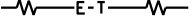
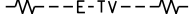
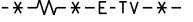
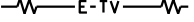
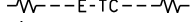
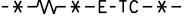
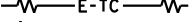
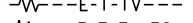
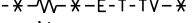
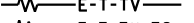
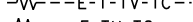
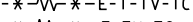
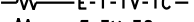
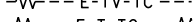
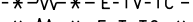
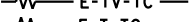
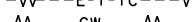
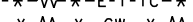
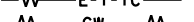
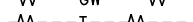
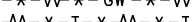


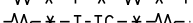

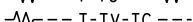
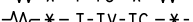
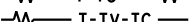
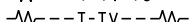
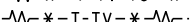
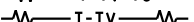
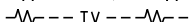
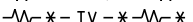

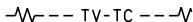
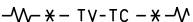
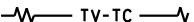
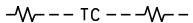
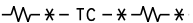




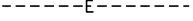
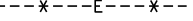
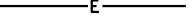
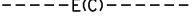
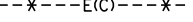

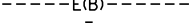
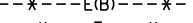

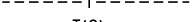
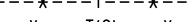
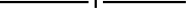
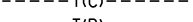
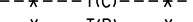

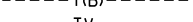
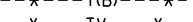

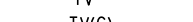
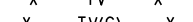
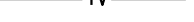
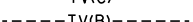
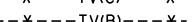

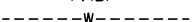
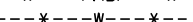

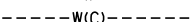
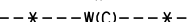

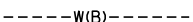



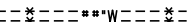




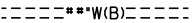
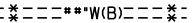

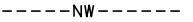


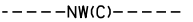















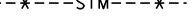

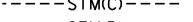
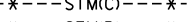

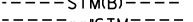
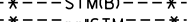

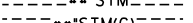
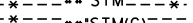
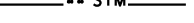
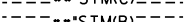
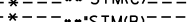


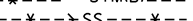

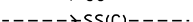
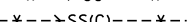

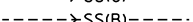
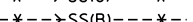

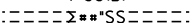
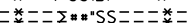

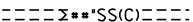
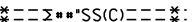

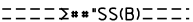
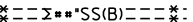










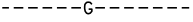
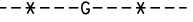
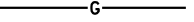
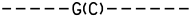
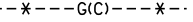

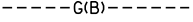
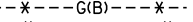

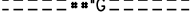
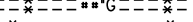
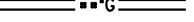
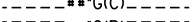
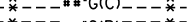

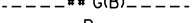
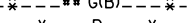

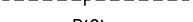
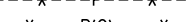

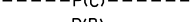
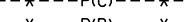

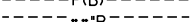
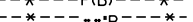

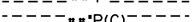
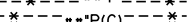

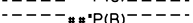
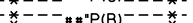





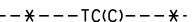
















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REVISION DATES



































































































































CROSS SECTIONS

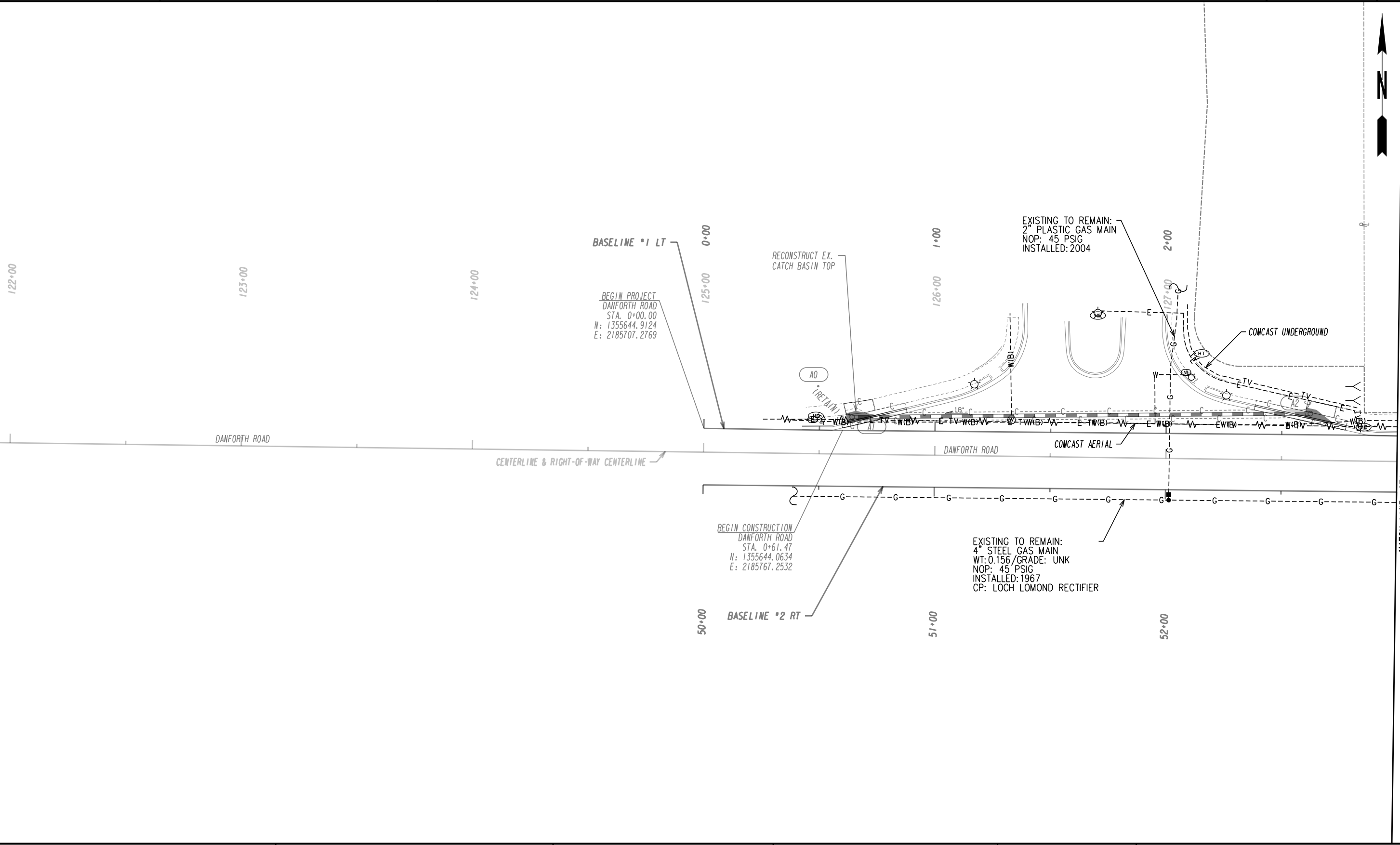
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0019
CORRECTED:	DATE:	
VERIFIED:	DATE:	

EXISTING OVERHEAD	OVERHEAD TO BE REMOVED	PROPOSED OVERHEAD	TYPE OF UTILITY
			ELECTRIC
			
			
			
			
			
			
			
			
			TELECOMMUNICATIONS
			
			
			
			CABLE TV
			
			TRAFFIC CONTROL
EXISTING UNDERGROUND	UNDERGROUND TO BE REMOVED	PROPOSED UNDERGROUND	TYPE OF UTILITY
			ELECTRIC (QL-D)
			ELECTRIC (QL-C)
			ELECTRIC (QL-B)
			TELECOMMUNICATIONS (QL-D)
			TELECOMMUNICATIONS (QL-C)
			TELECOMMUNICATIONS (QL-B)
			CABLE TV (QL-D)
			CABLE TV (QL-C)
			CABLE TV (QL-B)
			WATER (QL-D)
			WATER (QL-C)
			WATER (QL-B)
			WATER FOR LABELED PIPE SIZES (QL-D)
			WATER FOR LABELED PIPE SIZES (QL-C)
			WATER FOR LABELED PIPE SIZES (QL-B)
			NON-POTABLE WATER (QL-D)
			NON-POTABLE WATER (QL-C)
			NON-POTABLE WATER (QL-B)
			NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D)
			NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-C)
			NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-B)
			STEAM (QL-D)
			STEAM (QL-C)
			STEAM (QL-B)
			STEAM FOR LABELED PIPE SIZES (QL-D)
			STEAM FOR LABELED PIPE SIZES (QL-C)
			STEAM FOR LABELED PIPE SIZES (QL-B)
			SANITARY SEWER WITH FLOW DIRECTION (QL-D)
			SANITARY SEWER WITH FLOW DIRECTION (QL-C)
			SANITARY SEWER WITH FLOW DIRECTION (QL-B)
			SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
			SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C)
			SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-B)
			SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-D)
			SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-C)
			SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-B)
			GAS (QL-D)
			GAS (QL-C)
			GAS (QL-B)
			GAS FOR LABELED PIPE SIZES (QL-D)
			GAS FOR LABELED PIPE SIZES (QL-C)
			GAS FOR LABELED PIPE SIZES (QL-B)
			PETROLEUM (QL-D)
			PETROLEUM (QL-C)
			PETROLEUM (QL-B)
			PETROLEUM FOR LABELED PIPE SIZES (QL-D)
			PETROLEUM FOR LABELED PIPE SIZES (QL-C)
			PETROLEUM FOR LABELED PIPE SIZES (QL-B)
			TRAFFIC CONTROL (QL-D)
			TRAFFIC CONTROL (QL-C)
			TRAFFIC CONTROL (QL-B)
			UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (QL-B)

UTILITY LEGEND

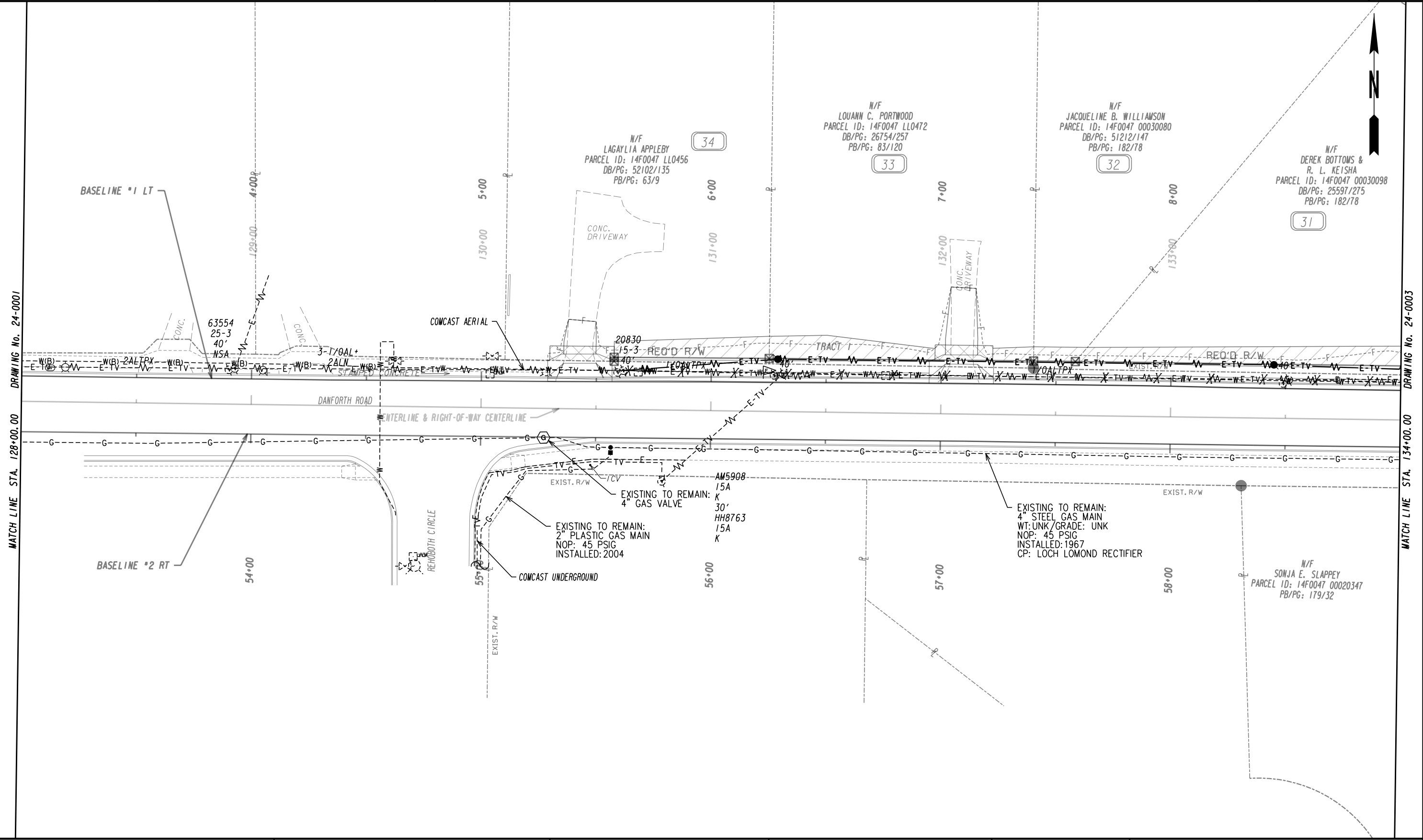
UTILITY CELLS							
EXISTING	PROPOSED	TEMPORARY		EXISTING	PROPOSED	TEMPORARY	
			ELECTRIC MANHOLE				WELL
			HAND HOLE				WATER VAULT
			TRANSFORMER				WATER VALVE MARKER
			ELECTRIC METER				STAND PIPE
			UTILITY POLE/GUY POLE				CLEANOUT
			LIGHT POLE				SANITARY SEWER MANHOLE
			GUY ANCHOR				AIR RELEASE VALVE
			ELECTRIC BOX				GREASE TRAP
			MARKER				SANITARY SEWER FORCE MAIN VALVE
			TELECOMMUNICATIONS MANHOLE				VENT
			TELECOMMUNICATIONS PEDESTAL				GAS VALVE
			SPLICE BOX				GAS METER
			SUBSCRIBER LOOP CARRIER (aka "SLICK")				GAS MANHOLE
			CABINET				GAS PRESSURE REGULATOR
			PHONE BOOTH				GAS VAULT
			CABLE TV PEDESTAL				GAS TEST STATION
			CABLE TV MANHOLE				PETROLEUM VALVE
			WATER VALVE				MISC.
			WATER METER				LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
			WATER MANHOLE				TEST HOLE (QL-A ONLY)
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)				END OF INFORMATION
			BACKFLOW PREVENTER				QUALITY LEVEL (QL) DELINEATION
			PRESSURE INDICATOR VALVE				POLE ID
			AIR RELEASE VALVE				SANITARY SEWER MANHOLE (SSMH) ID



DRAWING No. 24-0002
MATCH LINE STA. 128+00.00



REVISION DATES			UTILITY PLANS		
			SIDEWALK IMPROVEMENTS ON DANFORTH ROAD		
CHECKED:		DATE:			DRAWING No.
BACKCHECKED:		DATE:			24-0001
CORRECTED:		DATE:			
VERIFIED:		DATE:			



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

-----E-----

---C---F---

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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---HH---HH---

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PLANS PREPARED AND SUBMITTED BY:

AEI

AMERICAN ENGINEERS, INC.

www.aei.cc

65 Aberdeen Drive
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Aconity, GA 30001
(770) 421-8422

DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

SCALE IN FEET

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REVISION DATES

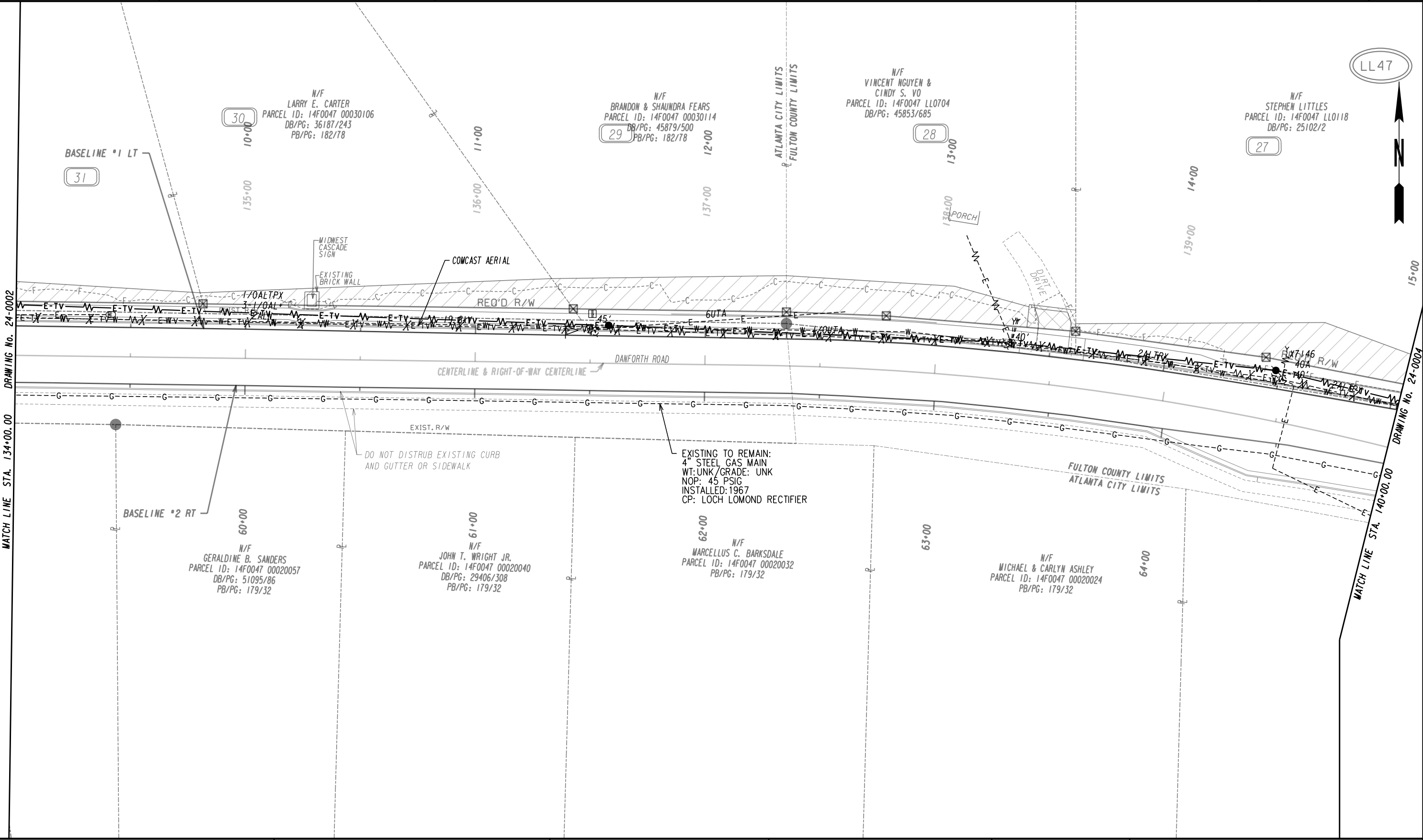
UTILITY PLANS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

10/23/2015

GPLN



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

-----E-----

-----C-----F-----

BEGIN LIMIT OF ACCESS.....BLA

END LIMIT OF ACCESS.....ELA

REQ'D LIMIT OF ACCESS

REQ'D LIMIT OF ACCESS & R/W

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:

AMERICAN ENGINEERS, INC.

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Aconity, GA 30001
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SCALE IN FEET

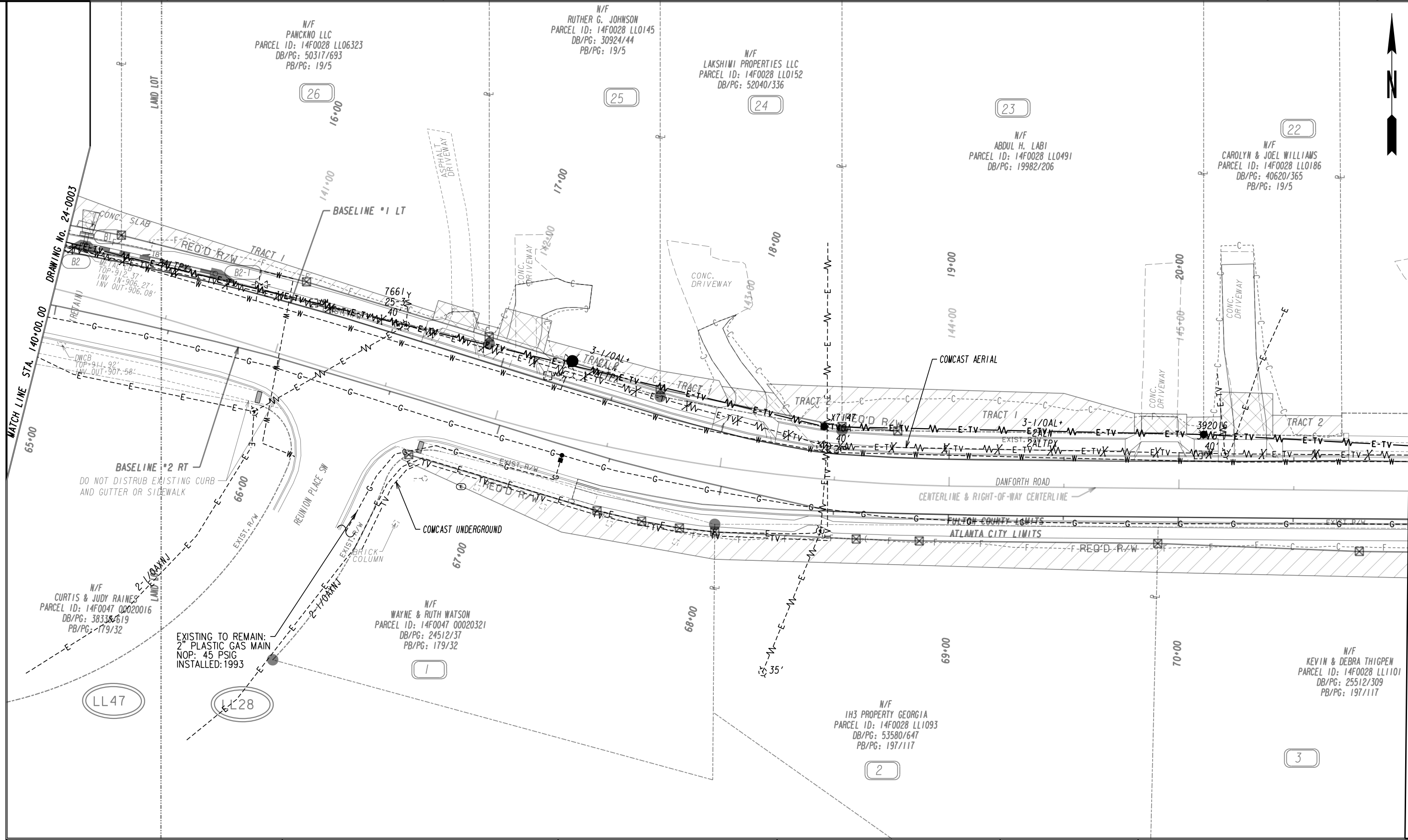
REVISION DATES

UTILITY PLANS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

24-0003



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

---E---
---C---F---
[Hatched Box]
[Hatched Box]
[Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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SCALE IN FEET

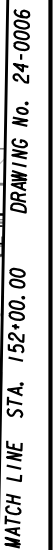
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REVISION DATES	

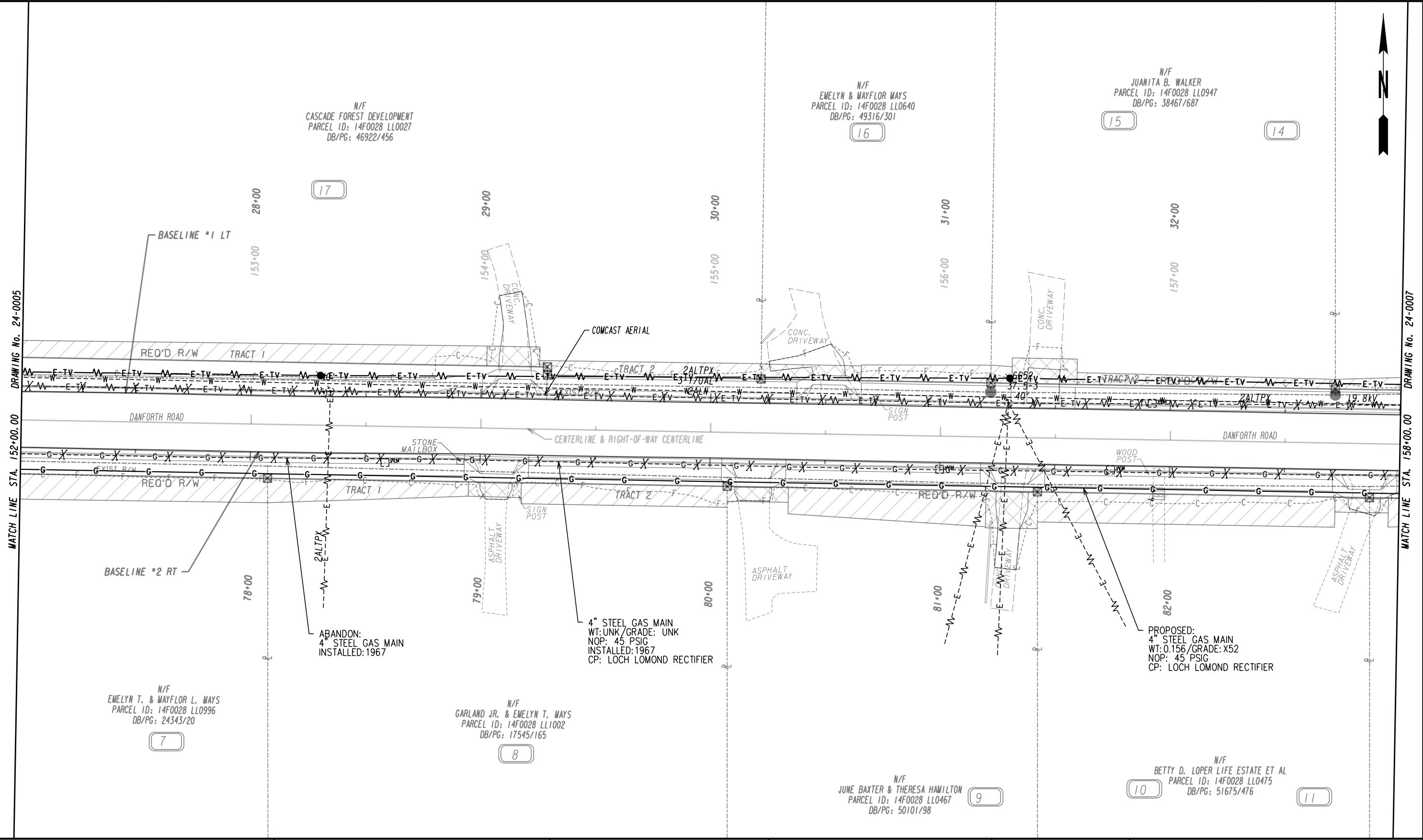
UTILITY PLANS

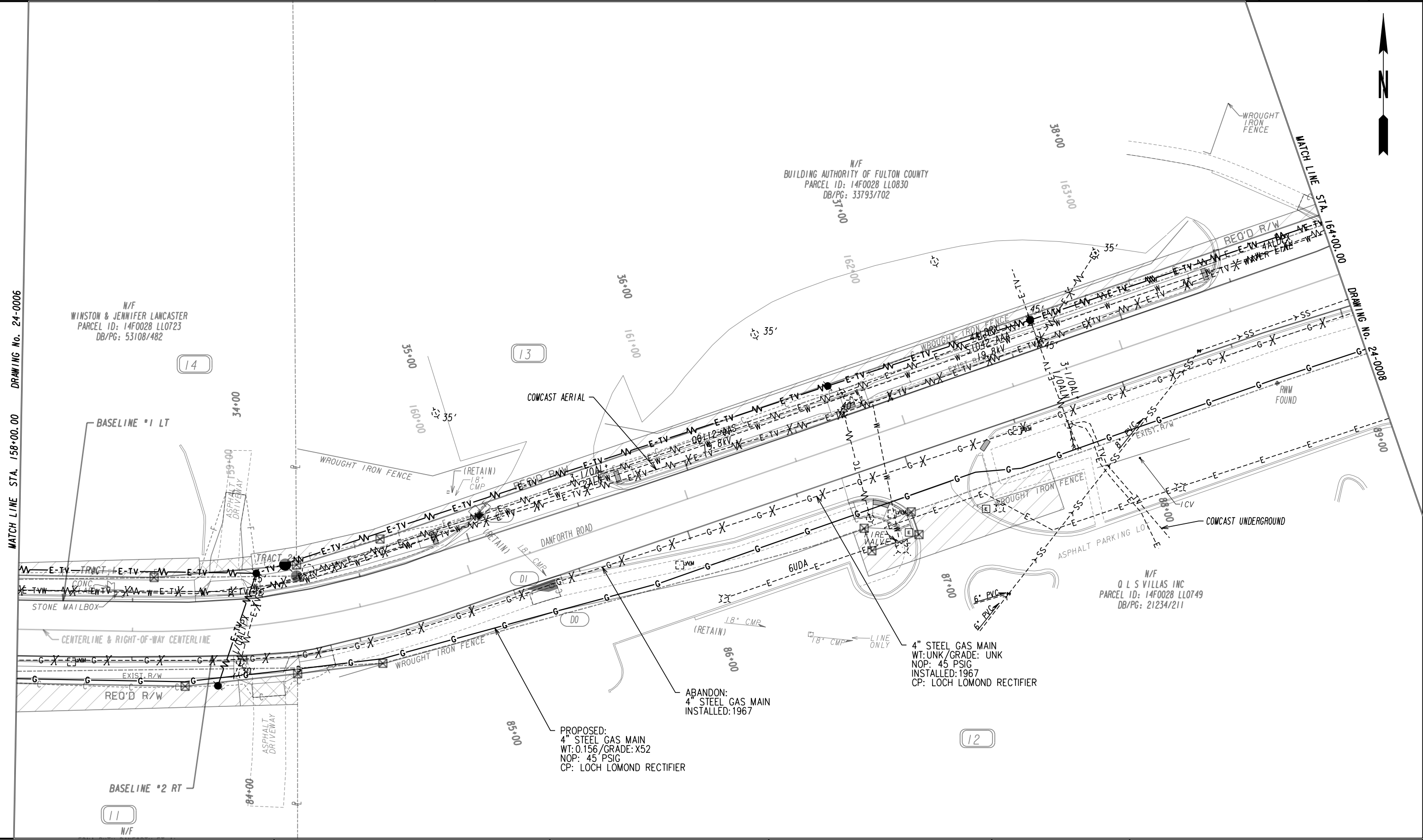
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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



CHECKED:	DATE:	DRAWING No. 24-0005
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	





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

-----E-----

-----C-----F-----

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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SCALE IN FEET

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REVISION DATES

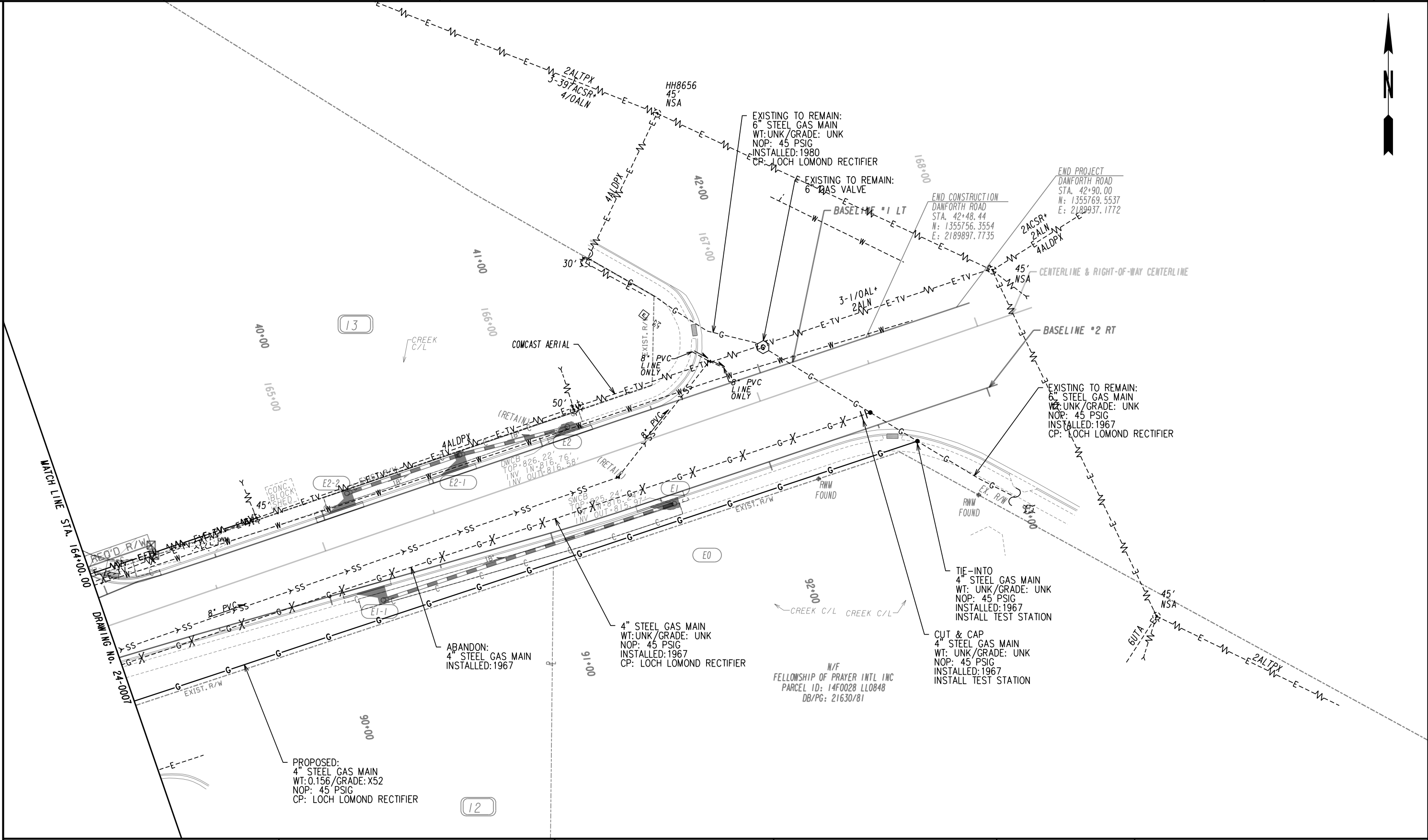
UTILITY PLANS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No. 24-0007
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

10/23/2015

GPLN



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

-----E-----

-----C-----F-----

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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PROFESSIONAL ENGINEERING

SCALE IN FEET

0

20

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80

REVISION DATES

UTILITY PLANS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

24-0008

10/23/2015

GPLN

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Work By Others

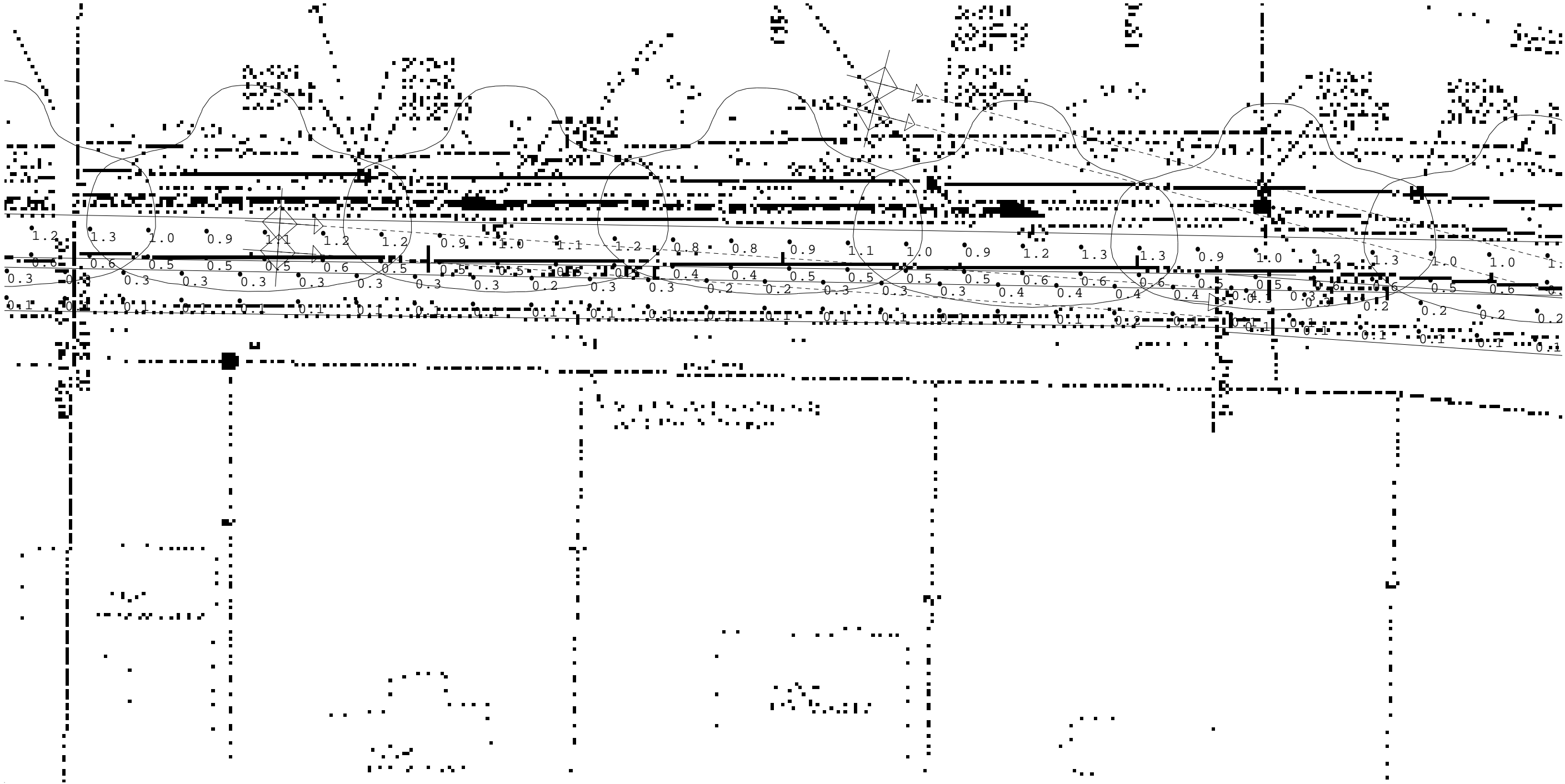


Client: Andy McLendon Drawing Number: 15163H Date: 10/18/2021 Scale: 1" = 30'	#	Date	Comments

Revisions

Client: Andy McLendon Drawing Number: 15163H Date: 10/18/2021 Scale: 1" = 30'	#	Date	Comments

Danforth Rd Streetscape



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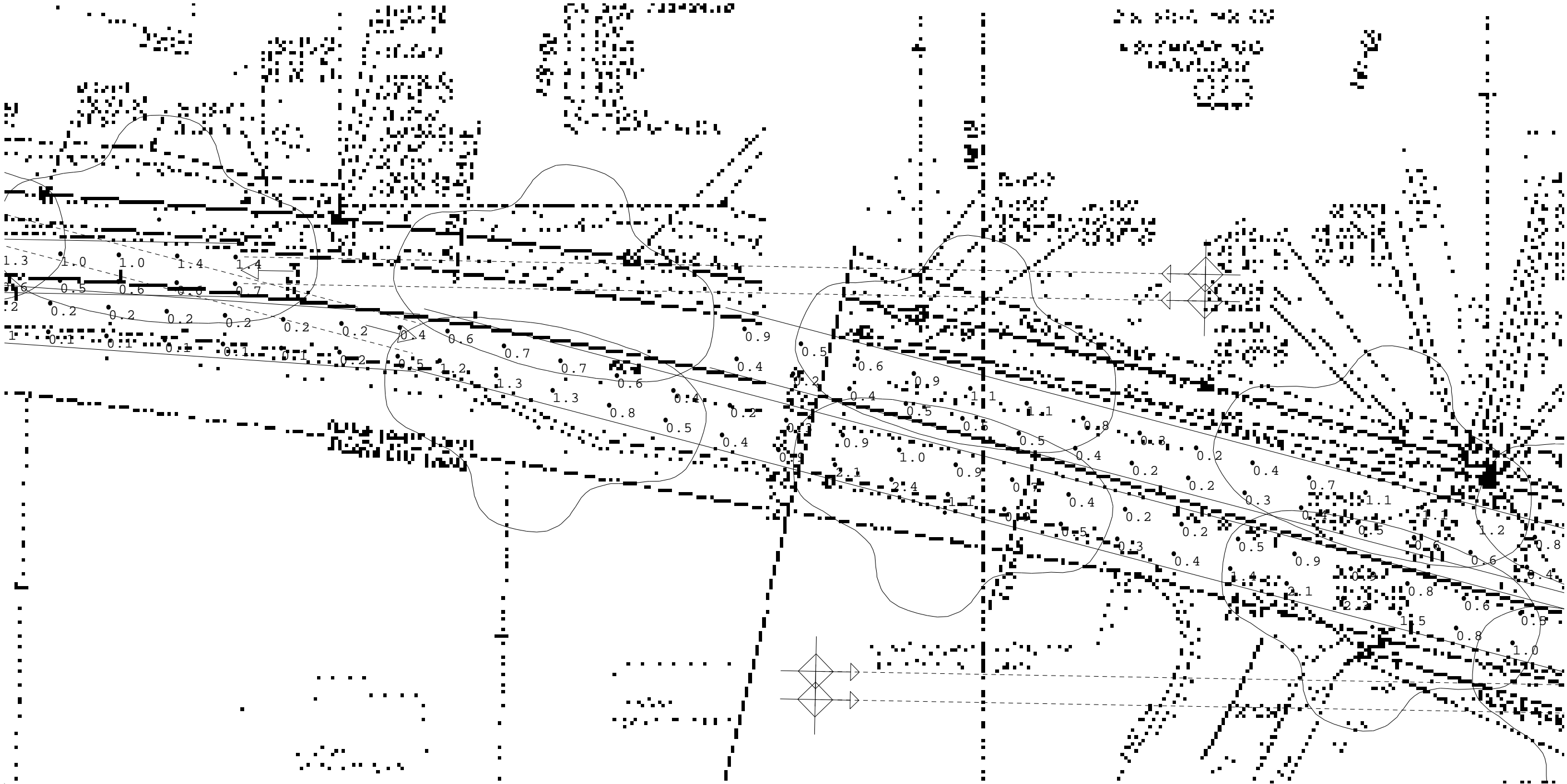
Work By Others



#	Date	Comments
Revisions		

Client: Andy McLendon
Drawing Number: 15163H
Date: 10/18/2021
Scale: 1" = 30'

Danforth Rd Streetscape



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Work By Others



#	Date	Comments
Revisions		

Client: Andy McLendon
Drawing Number: 15163H
Date: 10/18/2021
Scale: 1" = 30'

Danforth Rd Streetscape

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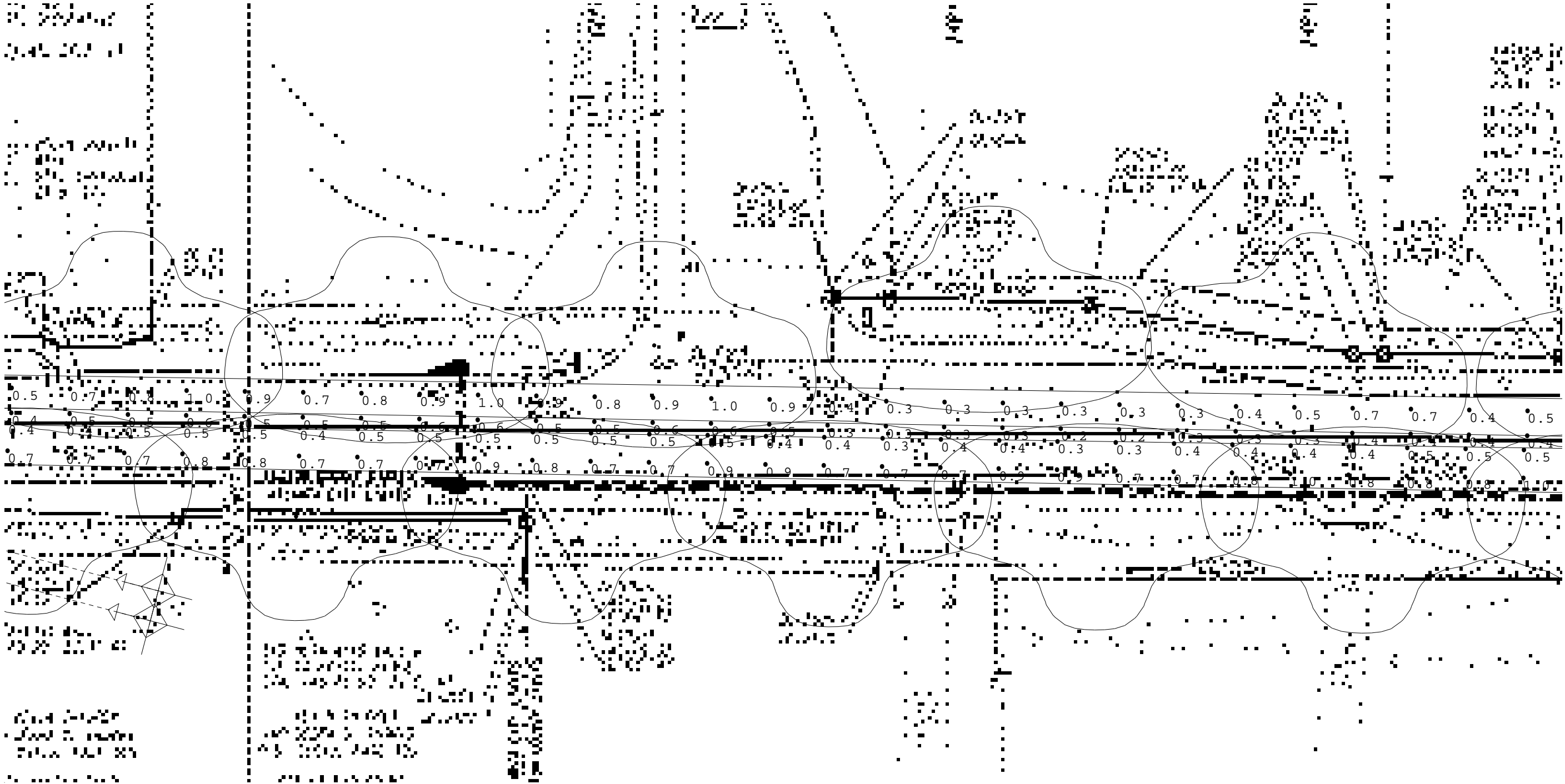
Work By Others



#	Date	Comments
Revisions		

Client: Andy McLendon
Drawing Number: 15163H
Date: 10/18/2021
Scale: 1" = 30'

Danforth Rd Streetscape



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Work By Others



#	Date	Comments
Revisions		

Client: Andy McLendon
Drawing Number: 15163H
Date: 10/18/2021
Scale: 1" = 30'

Danforth Rd Streetscape

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Work By Others



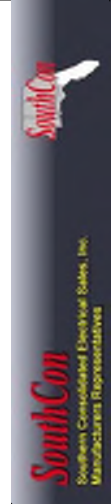
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Revisions		

Client: Andy McLendon
Drawing Number: 15163H
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Danforth Rd Streetscape

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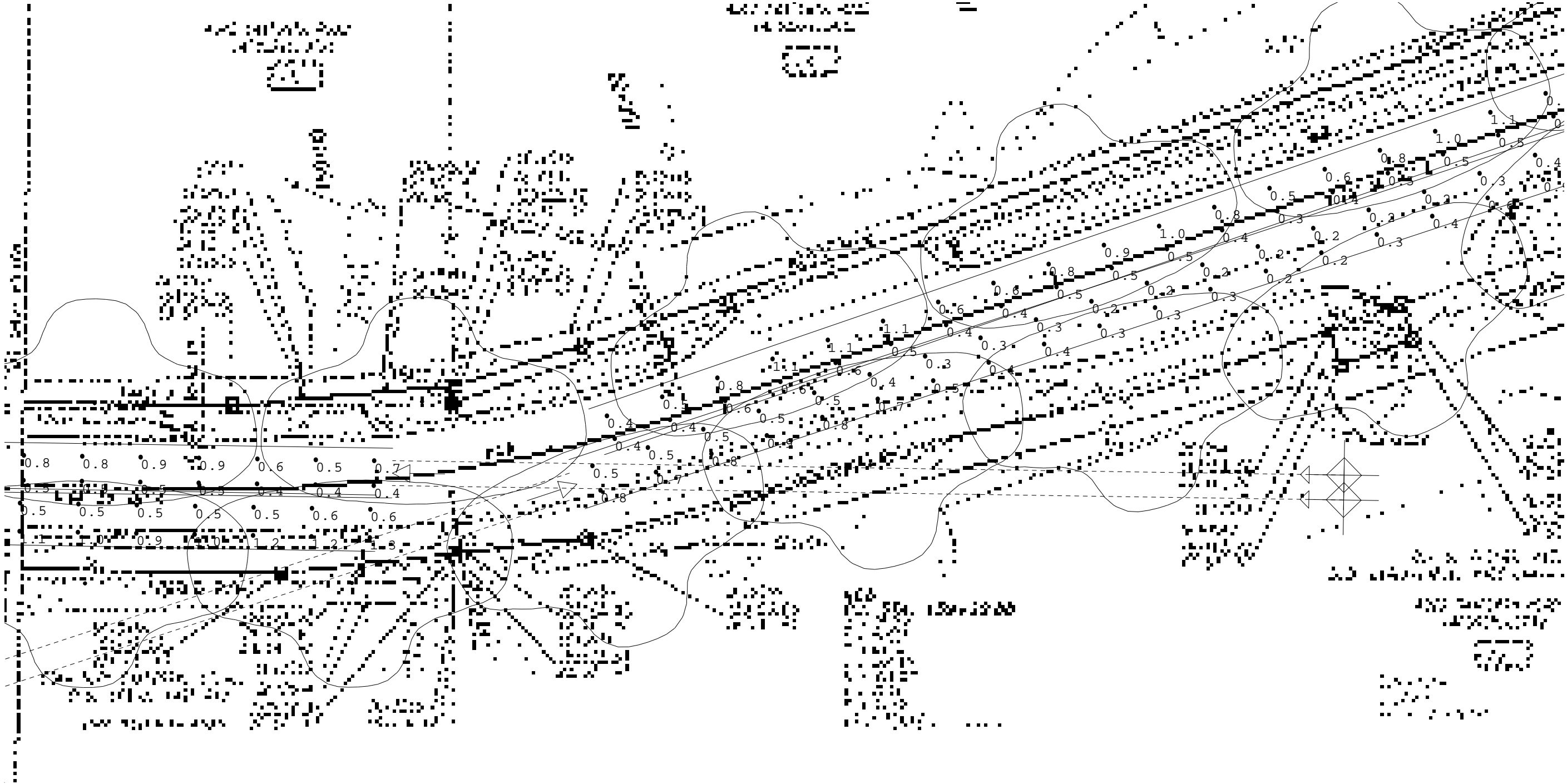
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Danforth Rd Streetscape



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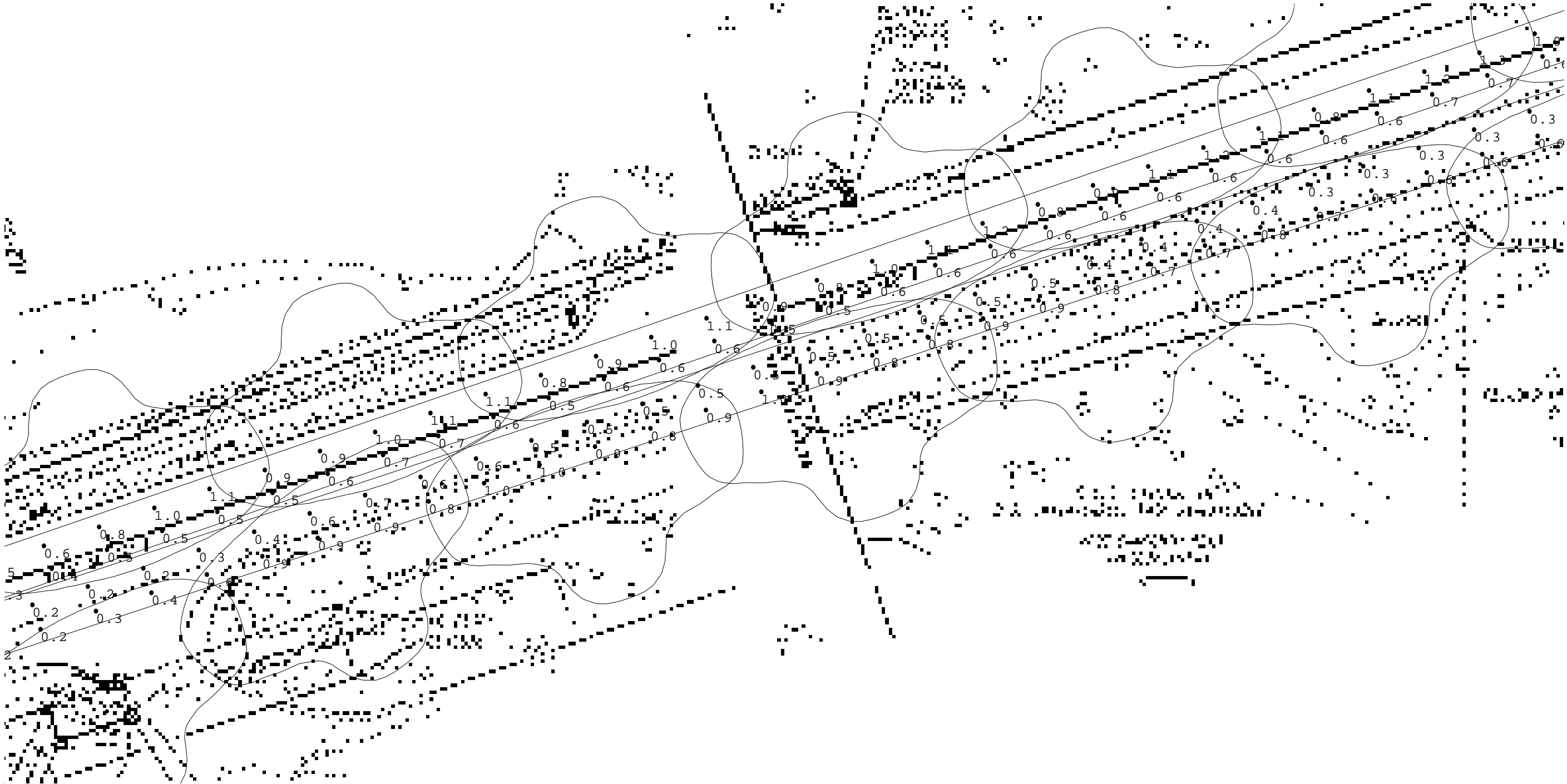
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Revisions		

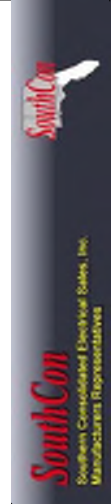
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Danforth Rd Streetscape



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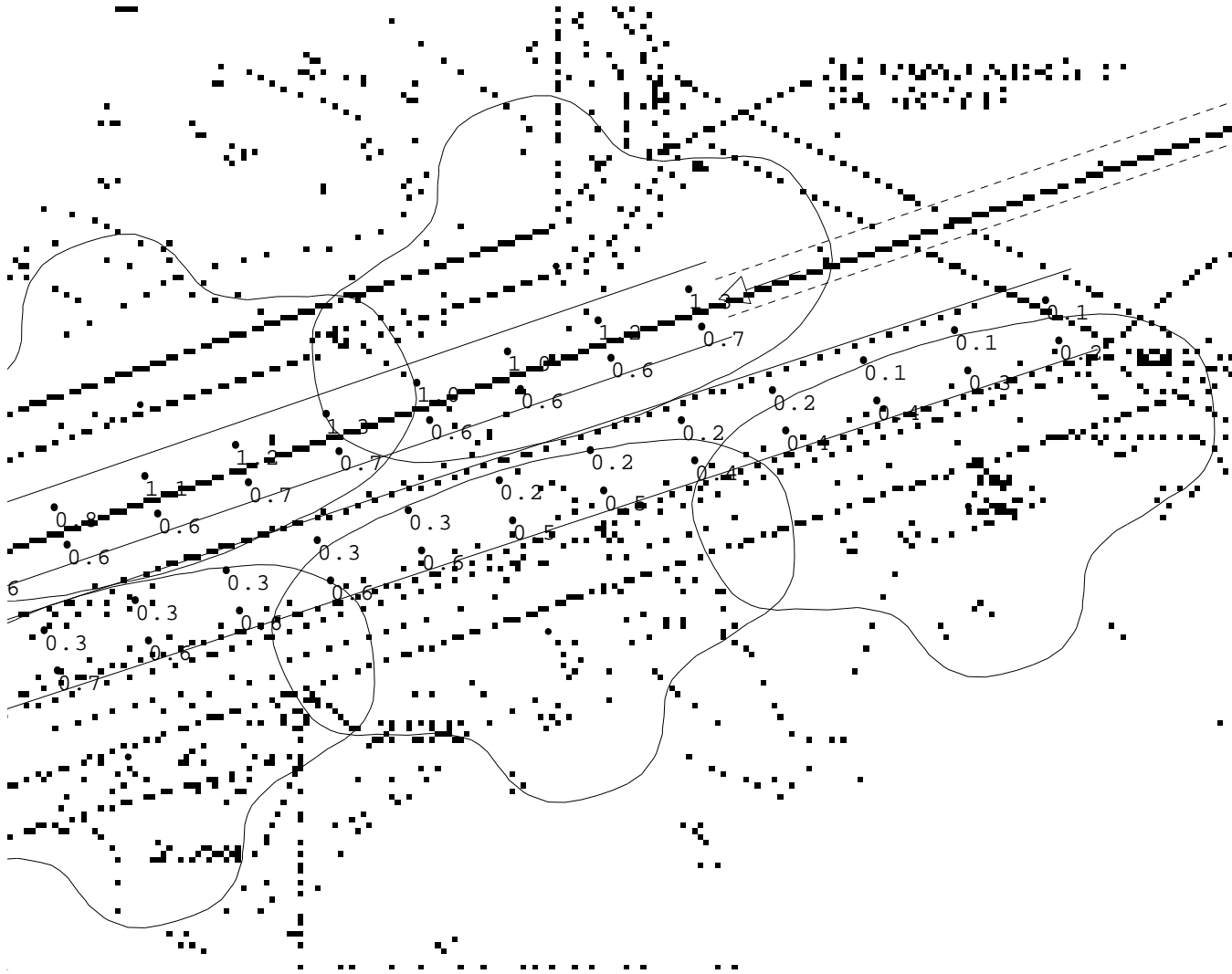
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Client: Andy McLendon
Drawing Number: 15163H
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Scale: 1" = 30'

Danforth Rd Streetscape



Luminaire Location Summary						
		Insertion Point				
LumNo	Label	X	Y	Z	Orient	Tilt
82	L3	1359.66	129.227	14	73.856	0
129	L3	229.028	257	14	269.193	0
148	L3	1362.259	179.021	14	253.095	0
190	L3	1429.146	100.843	14	70.072	0
191	L3	1502.806	88.463	14	86.73	0
192	L3	1577.772	86.359	14	88.593	0
193	L3	1652.75	84.518	14	88.593	0
194	L3	1727.727	82.676	14	88.593	0
195	L3	1802.706	80.921	14	89.325	0
196	L3	1877.701	80.037	14	89.325	0
197	L3	1952.696	79.153	14	89.325	0
198	L3	2027.691	78.269	14	89.325	0
199	L3	2102.685	77.385	14	89.325	0
200	L3	2177.68	76.501	14	89.325	0
201	L3	2252.675	75.617	14	89.325	0
202	L3	2327.668	74.578	14	88.935	0
203	L3	2402.655	73.184	14	88.935	0
204	L3	2477.642	71.79	14	88.935	0
205	L3	2552.629	70.396	14	88.935	0
206	L3	2627.616	69.001	14	88.935	0
207	L3	2702.603	67.607	14	88.935	0
208	L3	2777.59	66.213	14	88.935	0
209	L3	2852.577	64.819	14	88.935	0
210	L3	2927.564	63.425	14	88.935	0
211	L3	3002.551	62.03	14	88.935	0
212	L3	3077.507	62.142	14	93.366	0
213	L3	3151.452	73.322	14	108.435	0
214	L3	3223.124	95.327	14	103.392	0
215	L3	3296.349	111.455	14	104.931	0
216	L3	3368.469	131.908	14	117.719	0
217	L3	3434.067	168.05	14	126.87	0
218	L3	3505.348	191.3	14	107.961	0
219	L3	3576.693	214.428	14	107.961	0
220	L3	3648.272	236.803	14	106.624	0
221	L3	3720.138	258.259	14	106.624	0
222	L3	3792.003	279.715	14	106.624	0
223	L3	3863.868	301.172	14	106.624	0
224	L3	1435.851	164.249	14	256.359	0
225	L3	1508.43	145.385	14	258.906	0
226	L3	1582.505	135.173	14	268.21	0
227	L3	1657.486	133.506	14	268.768	0
228	L3	1753.468	131.894	14	268.768	0

Luminaire Location Summary						
		Insertion Point				
LumNo	Label	X	Y	Z	Orient	Tilt
229	L3	1828.453	130.408	14	268.986	0
230	L3	1903.441	129.081	14	268.986	0
232	L3	1997.598	139	14	270	0
233	L3	2088.534	131.438	14	259.479	0
234	L3	2180.398	127.376	14	269.47	0
235	L3	2255.395	126.682	14	269.47	0
236	L3	2330.391	125.969	14	268.68	0
237	L3	2405.371	124.241	14	268.68	0
238	L3	2480.351	122.513	14	268.68	0
239	L3	2555.331	120.786	14	268.68	0
240	L3	2636.311	119.058	14	268.68	0
241	L3	2705.291	117.33	14	268.68	0
242	L3	2780.274	115.764	14	269.215	0
243	L3	2864.267	114.736	14	269.215	0
244	L3	2930.26	113.709	14	269.215	0
245	L3	3005.253	112.682	14	269.215	0
246	L3	3097.225	113.1	14	272.49	0
248	L3	3191.914	137.269	14	288.882	0
249	L3	3278.879	167.541	14	288.882	0
250	L3	3366.843	198.812	14	288.882	0
251	L3	3437.807	223.084	14	288.882	0
252	L3	3508.771	247.356	14	288.882	0
253	L3	3579.903	271.13	14	288.435	0
254	L3	3651.054	294.847	14	288.435	0
255	L3	3722.206	318.564	14	288.435	0
256	L3	3793.357	342.281	14	288.435	0
281	L3	299	256	14	270	0
282	L3	371	255.86	14	269.651	0
283	L3	442.998	255.421	14	269.651	0
284	L3	514.996	254.943	14	268.905	0
285	L3	586.983	253.567	14	268.905	0
286	L3	658.97	252.192	14	268.905	0
287	L3	730.968	252	14	270	0
288	L3	802.953	251.408	14	267.166	0
289	L3	874.865	247.848	14	267.166	0
290	L3	946.844	247	14	270	0
291	L3	1018.881	243.721	14	264.053	0
292	L3	1239.565	161.352	14	74.992	0
293	L3	1244.765	209.96	14	256.359	0
294	L3	1125.451	185.281	14	78.016	0
295	L3	1131.925	229.821	14	256.359	0

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Lum. Watts	Total Watts	Lum. Lumens	LLF	Description
	83	L3	SINGLE	99	8217	6291	0.800	K100WR-P4AR-III-100(SSL)-7030

Work By Others

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	LVRatio	
Danforth Road Eastbound 1_Luminance	Luminance	Cd/Sq.m	0.21	0.4	0.1	2.10	4.00	N.A.	
Danforth Road Eastbound 1_Veil_Lum	Veiling Luminance	Cd/Sq.m	0.44	0.6	0.3	1.47	2.00	2.86	
Danforth Road Eastbound 2_Luminance	Luminance	Cd/Sq.m	0.20	0.5	0.1	2.00	5.00	N.A.	
Danforth Road Eastbound 2_Veil_Lum	Veiling Luminance	Cd/Sq.m	1.05	1.2	1.0	1.05	1.20	6.00	
Danforth Road Eastbound 3_Luminance	Luminance	Cd/Sq.m	0.85	2.4	0.2	4.25	12.00	N.A.	
Danforth Road Eastbound 3_Veil_Lum	Veiling Luminance	Cd/Sq.m	0.30	0.6	0.2	1.50	3.00	0.71	
Danforth Road Eastbound 4_Luminance	Luminance	Cd/Sq.m	0.69	1.3	0.3	2.30	4.33	N.A.	
Danforth Road Eastbound 4_Veil_Lum	Veiling Luminance	Cd/Sq.m	0.39	0.9	0.1	3.90	9.00	1.30	
Danforth Road Eastbound 5_Luminance	Luminance	Cd/Sq.m	0.50	1.0	0.1	5.00	10.00	N.A.	
Danforth Road Eastbound 5_Veil_Lum	Veiling Luminance	Cd/Sq.m	0.18	0.6	0.1	1.80	6.00	1.20	
Danforth Road Westbound 1_Luminance	Luminance	Cd/Sq.m	0.75	1.3	0.3	2.50	4.33	N.A.	
Danforth Road Westbound 1_Veil_Lum	Veiling Luminance	Cd/Sq.m	0.25	0.6	0.1	2.50	6.00	0.80	
Danforth Road Westbound 2_Luminance	Luminance	Cd/Sq.m	0.61	1.1	0.2	3.05	5.50	N.A.	
Danforth Road Westbound 2_Veil_Lum	Veiling Luminance	Cd/Sq.m	0.34	0.7	0.1	3.40	7.00	1.15	
Danforth Road Westbound 3_Luminance	Luminance	Cd/Sq.m	0.57	1.2	0.2	2.85	6.00	N.A.	
Danforth Road Westbound 3_Veil_Lum	Veiling Luminance	Cd/Sq.m	0.25	0.6	0.2	1.25	3.00	1.05	
Danforth Road Westbound 4_Luminance	Luminance	Cd/Sq.m	0.87	1.6	0.4	2.18	4.00	N.A.	
Danforth Road Westbound 4_Veil_Lum	Veiling Luminance	Cd/Sq.m	0.25	0.6	0.1	2.50	6.00	0.69	

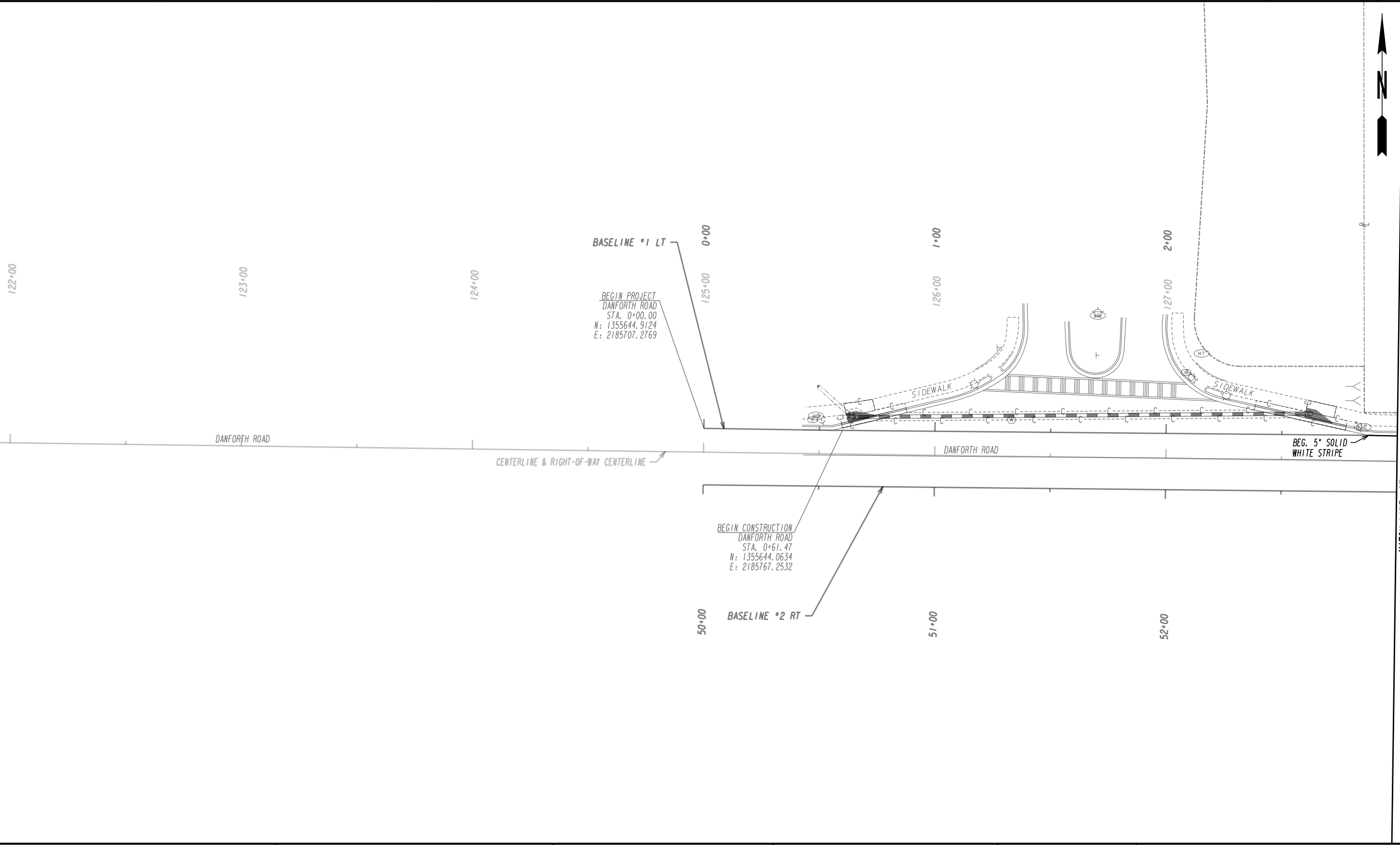
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Revisions		

Client: Andy McLendon
Drawing Number: 15163H
Date: 10/18/2021
Scale: 1" = 30'

Danforth Rd Streetscape	



DRAWING No. 26-0002
MATCH LINE STA. 128+00.00

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

-----E-----
-----C-----F-----

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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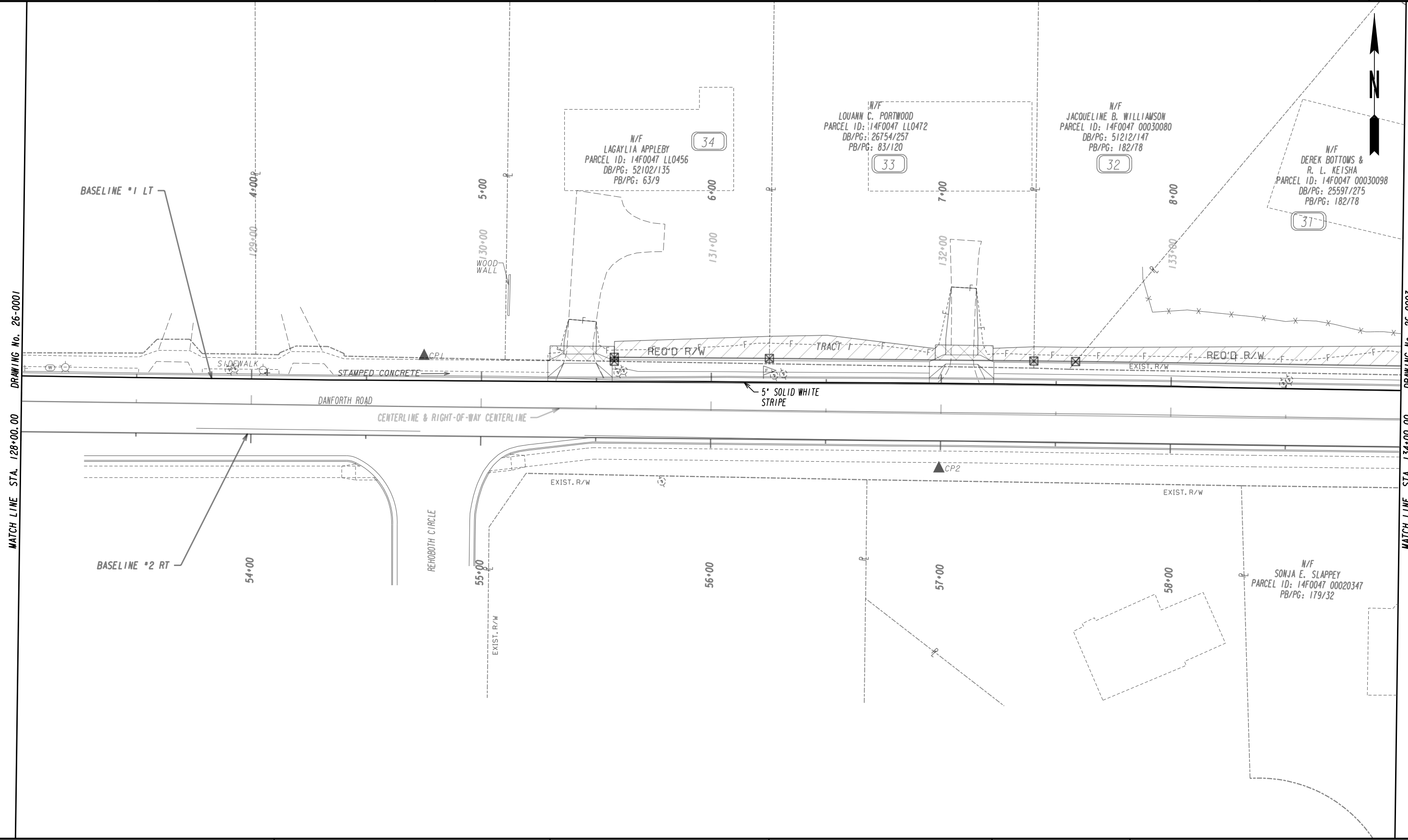
REVISION DATES

SIGNING AND MARKING PLANS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

10/23/2015 GPLN



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

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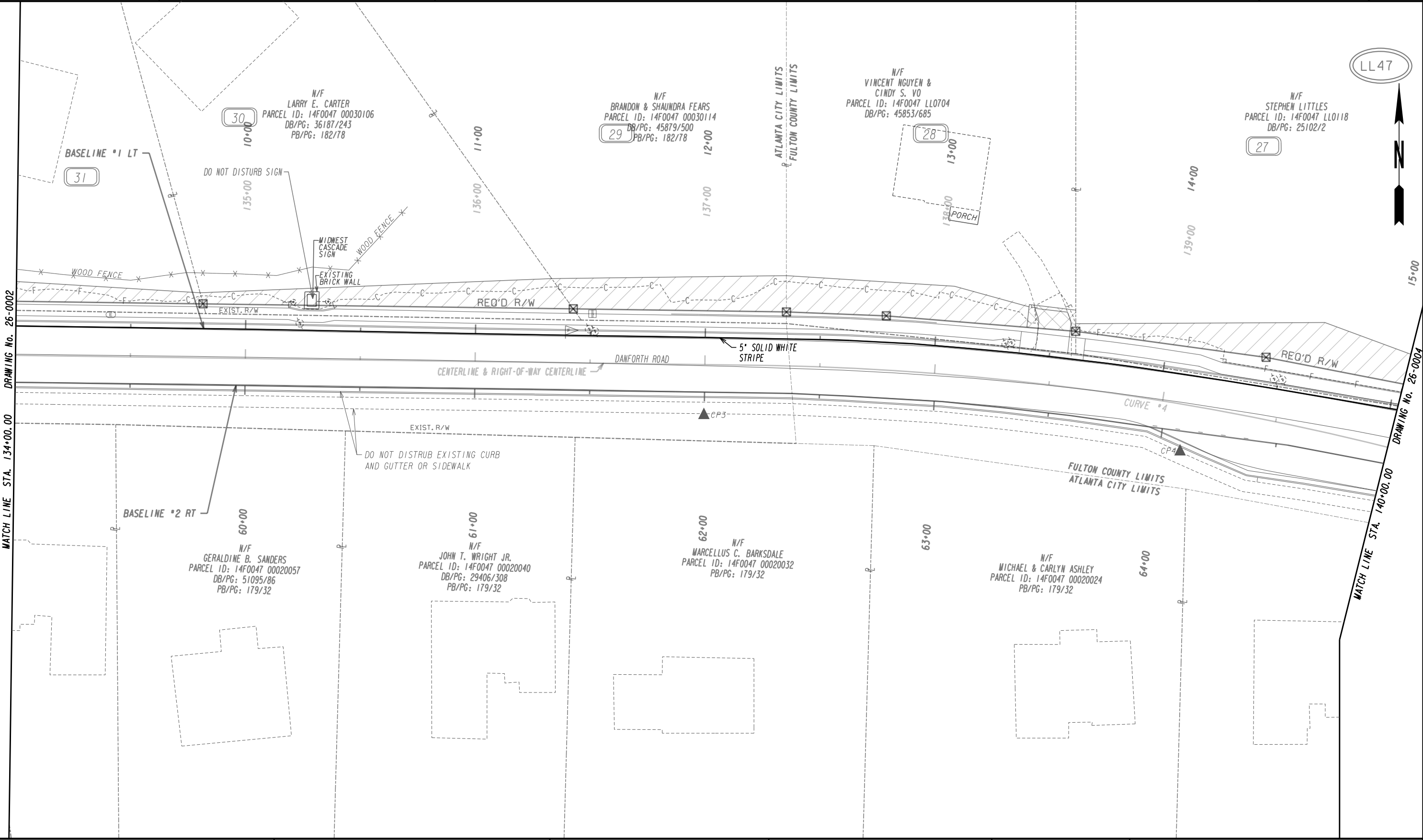
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REVISION DATES

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



PROPERTY AND EXISTING R/W LINE

REQUIRED R/W LINE

CONSTRUCTION LIMITS

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EASEMENT FOR CONSTR OF SLOPES

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REQ'D LIMIT OF ACCESS & R/W

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA

(SEE ERIT TABLE)

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2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3803

Branch Office

560 Acworth Landing Drive
Acworth, GA 30001
(770) 421-8422

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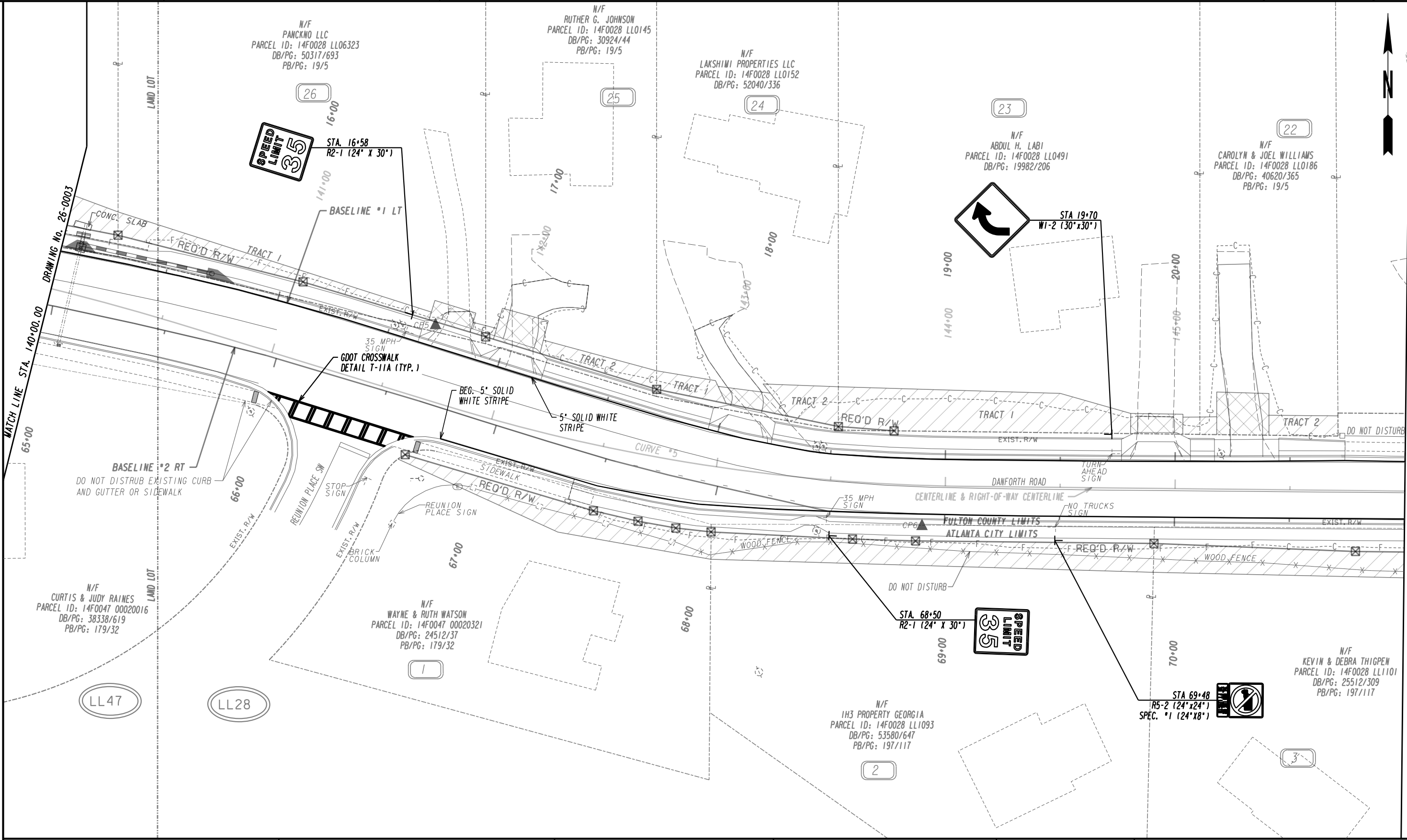
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VERIFIED:	DATE:	



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ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA
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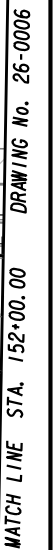
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BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015

GPLN



PROPERTY AND EXISTING R/W LINE

REQUIRED R/W LINE

CONSTRUCTION LIMITS

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& MAINTENANCE OF SLOPES

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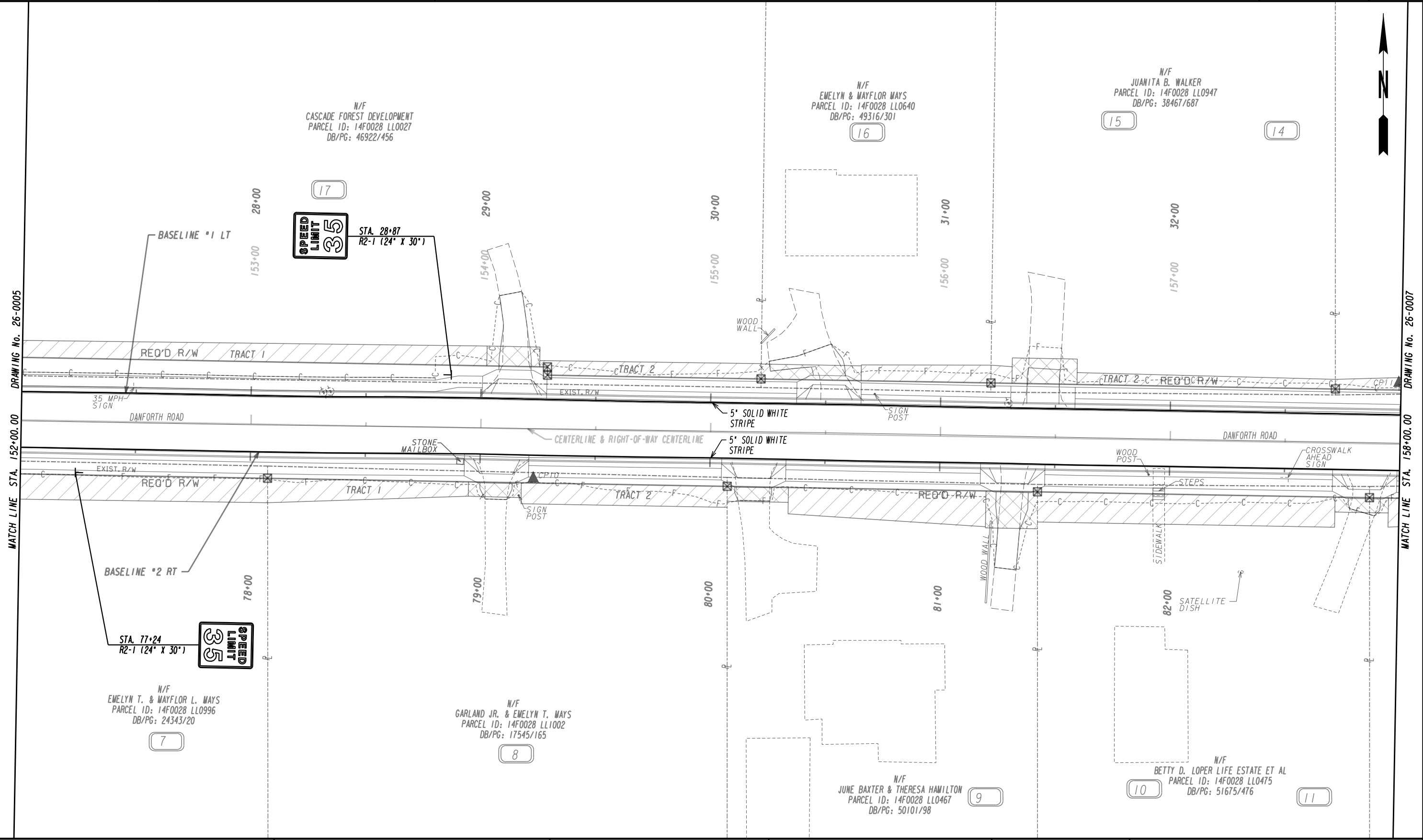
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SCALE IN FEET



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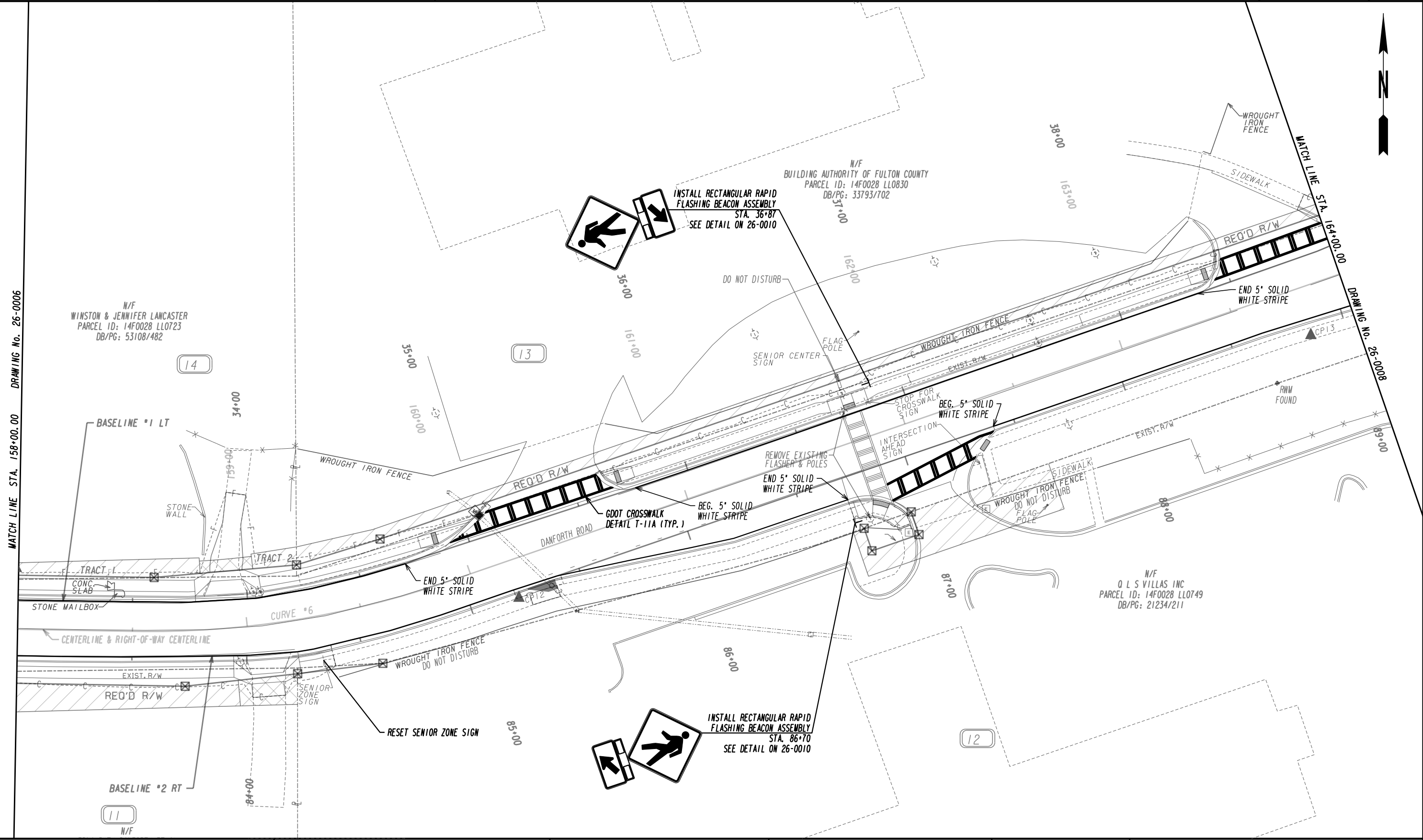
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REVISION DATES

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CORRECTED:	DATE:	
VERIFIED:	DATE:	



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

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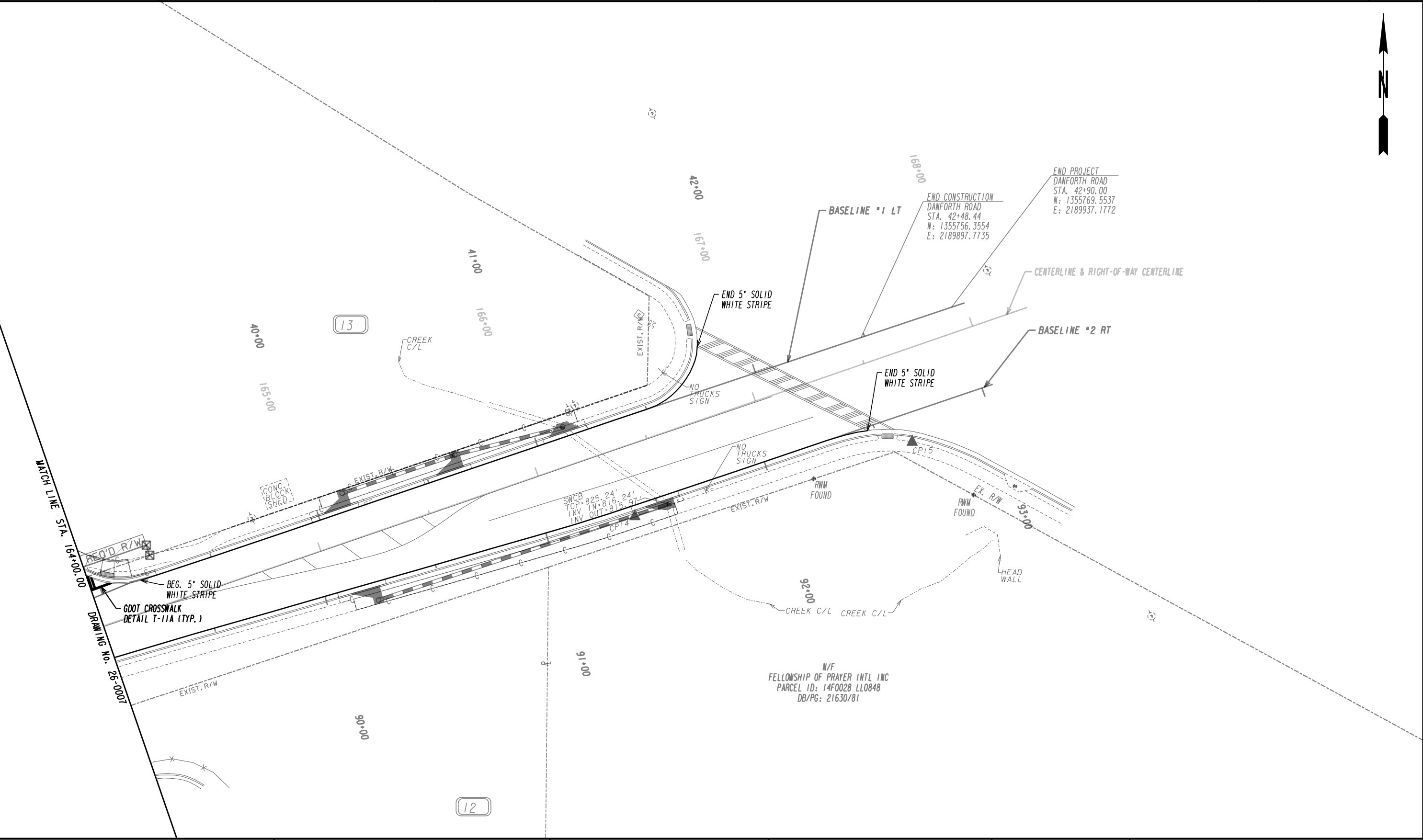
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REVISION DATES	

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SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No. 26-0007
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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

-----E-----

---C---F---

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:

AMERICAN ENGINEERS, INC.
www.aei.cc

DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

SCALE IN FEET

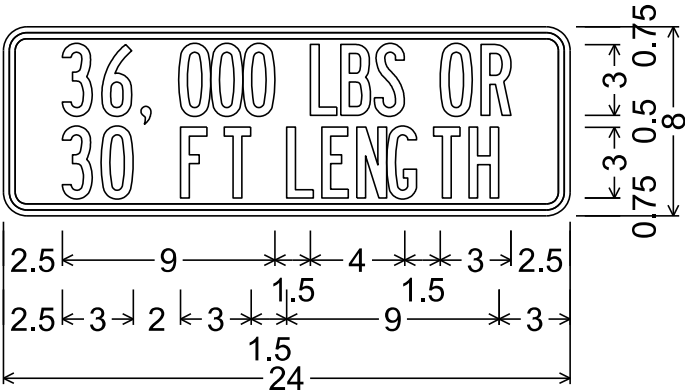
REVISION DATES

SIGNING AND MARKING PLANS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	

SPEC #1
STA. 69+48 RT



1.00" Radius, 0.25" Border, 0.25" Indent, Black on, White;
"36,000", Highway B specified length;
"LBS", Highway B specified length;
"OR", Highway B specified length;
"30", Highway B specified length;
"FT", Highway B specified length;
"LENGTH", Highway B specified length;

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
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& MAINTENANCE OF SLOPES
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-C-F-

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REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:

AMERICAN ENGINEERS, INC.
www.aei.cc
DESIGN CONSULTANT

65 Aberdeen Drive
Gadsden, KY 4244
(270) 651-7220
2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3883

Branch Office
560 Acworth Landing Drive
Acworth, GA 30001
(770) 421-8422

PROFESSIONAL ENGINEERING

N. T. S.

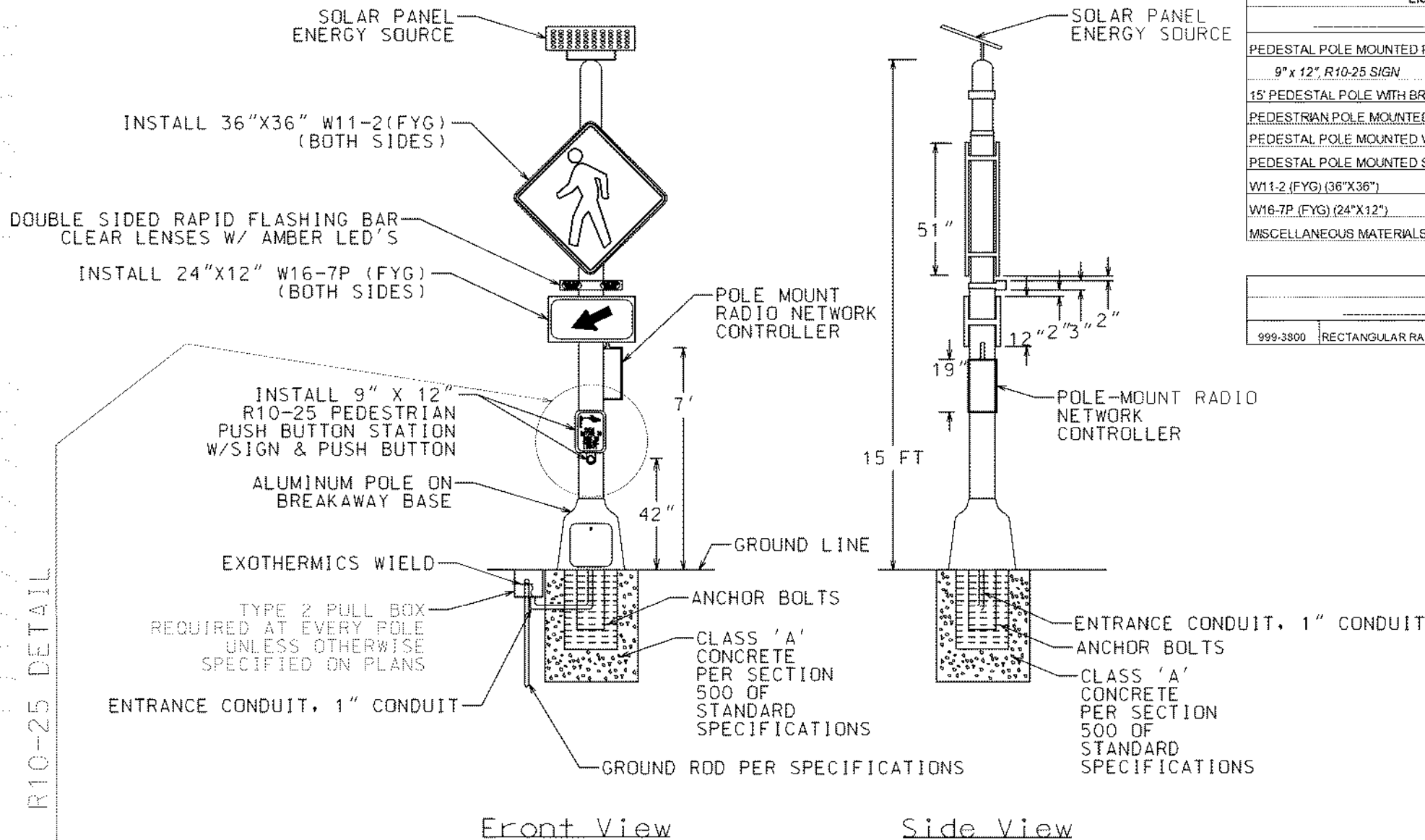
REVISION DATES

SIGNING AND MARKING PLANS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0009
CORRECTED:	DATE:	
VERIFIED:	DATE:	

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY PEDESTRAIN PEDESTAL INSTALLATION



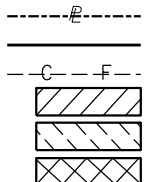
LIST OF MATERIALS (FOR INFORMATION ONLY)	UNIT	QUANTITY
PEDESTAL POLE MOUNTED PEDESTRIAN PUSHBUTTONS STATION W/BUTTON AND SIGN:		
9" x 12", R10-25 SIGN	EA	2
15' PEDESTAL POLE WITH BREAKAWAY BASE (BLACK POWDER COAT FINISH)	EA	2
PEDESTRIAN POLE MOUNTED RAPID FLASHING BAR (DOUBLE-SIDED)	EA	2
PEDESTAL POLE MOUNTED WIRELESS RADIO NETWORK CONTROLLER	EA	2
PEDESTAL POLE MOUNTED SOLAR PANEL ENERGY SOURCE	EA	2
W11-2 (FYG) (36"X36")	EA	4
W16-7P (FYG) (24"X12")	EA	4
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

PAY ITEMS (FOR INFORMATION ONLY)	UNIT	QUANTITY
999-3800 RECTANGULAR RAPID BEACON ASSEMBLY, INSTALLATION NO. 1	EA	2

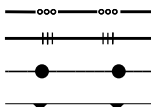
CONTRACTOR NOTES: (CONTRACTOR SHALL)

CONTACT THE CITY OF SOUTH FULTON PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION.
SOFTWARE/HARWARE VENDOR SHALL CONDUCT "FOUR HOURS" TRAINING SESSION WITH CITY STAFF AND TECHNICIANS WITH CONTRACTOR REPRESENTATIVE PRESENT PRIOR TO FIELD INSTALLTION.
CONTROLLER SHALL BE MOUNTED ON THE BACK SIDE OF SIDEWALK.

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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END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



PLANS PREPARED AND SUBMITTED BY:
American Engineers, Inc.
DESIGN CONSULTANT
PROFESSIONAL ENGINEERING

N. T. S.

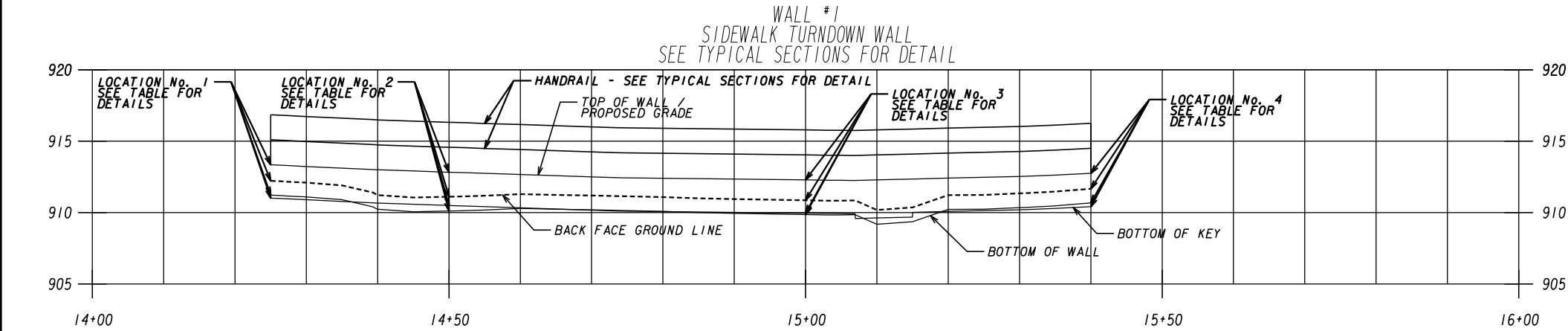
REVISION DATES

SIGNING AND MARKING PLANS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

26-0010



WALL #1

SIDEWALK TURNDOWN WALL

SEE TYPICAL SECTIONS FOR DETAIL

WALL LOCATION			TOP OF WALL / PROPOSED GRADE	BACK FACE GROUND LINE	BOTTOM OF WALL	BOTTOM OF KEY	DESCRIPTION
No.	STATION	OFFSET	ELEV.	ELEV.	ELEV.	ELEV.	
1	14+25.00	7.50' LT	913.35	912.22	911.22	911.01	BEGIN WALL
2	14+50.00	7.50' LT	912.82	911.11	910.11	910.49	50' INTERVAL
3	15+00.00	7.50' LT	912.29	910.86	909.86	909.95	50' INTERVAL
4	15+40.00	7.50' LT	912.75	911.67	910.67	910.42	END WALL

WALL #1

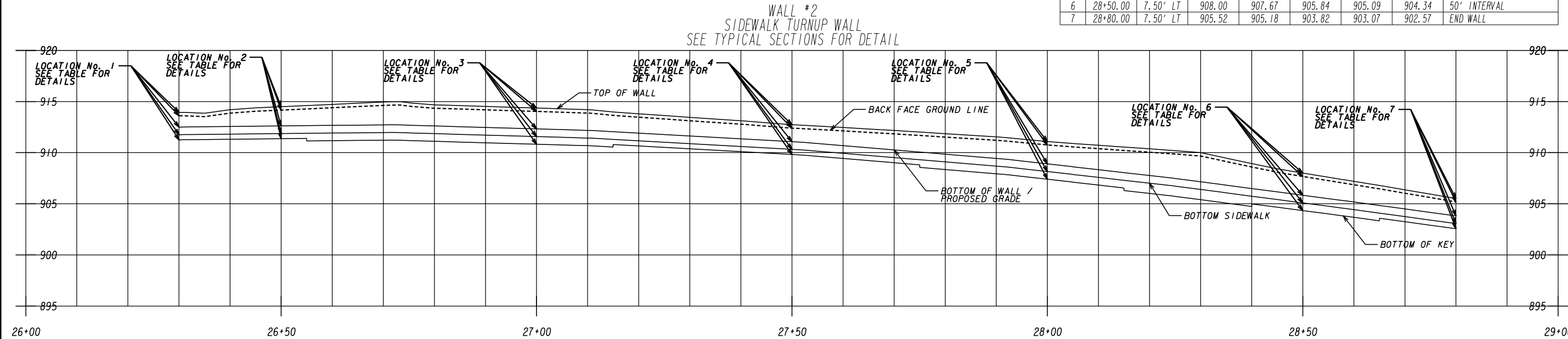
STATION RANGE	KEY DEPTH
14+25.00 - 15+07.00	1'-4"
15+07.00 - 15+15.00	1'-8"
15+15.00 - 15+40.00	1'-4"

WALL #2

STATION RANGE	KEY DEPTH
26+30.00 - 26+55.00	0'-6"
26+55.00 - 27+15.00	0'-9"
27+15.00 - 27+75.00	0'-6"
27+75.00 - 28+15.00	0'-9"
28+15.00 - 28+40.00	1'-0"
28+40.00 - 28+65.00	0'-9"
28+65.00 - 28+80.00	0'-6"

WALL #2
SIDEWALK TURNUP WALL
SEE TYPICAL SECTIONS FOR DETAIL

WALL LOCATION			TOP OF WALL	BACK FACE GROUND LINE	BOTTOM OF WALL / PROPOSED GRADE	BOTTOM SIDEWALK	BOTTOM OF KEY	DESCRIPTION
No.	STATION	OFFSET	ELEV.	ELEV.	ELEV.	ELEV.	ELEV.	
1	26+30.00	7.50' LT	913.94	913.61	912.49	911.74	911.24	BEGIN WALL
2	26+50.00	7.50' LT	914.50	914.17	912.62	911.87	911.37	50' INTERVAL
3	27+00.00	7.50' LT	914.37	914.03	912.32	911.57	910.82	50' INTERVAL
4	27+50.00	7.50' LT	912.74	912.40	911.07	910.32	909.82	50' INTERVAL
5	28+00.00	7.50' LT	911.09	910.76	908.90	908.15	907.40	50' INTERVAL
6	28+50.00	7.50' LT	908.00	907.67	905.84	905.09	904.34	50' INTERVAL
7	28+80.00	7.50' LT	905.52	905.18	903.82	903.07	902.57	END WALL



PLANS PREPARED AND SUBMITTED BY:

AEI

AMERICAN ENGINEERS, INC.

www.aei.cc

DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

Branch Office

65 Aberdeen Drive
Caldwell, KY 42011
(270) 651-1220

560 Acworth Landing Drive
Acworth, GA 30016
(770) 421-8422

2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3813

1" = 10' HORIZONTAL
1" = 5' VERTICAL

REVISION DATES

RETAINING WALL ENVELOPES

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

31-0001

CITY OF SOUTH FULTON
PUBLIC WORKS DEPARTMENT

UTILITY RELOCATION PLANS
SIDEWALK IMPROVEMENTS
ON DANFORTH ROAD

FULTON COUNTY
PROJECT NO.T-260

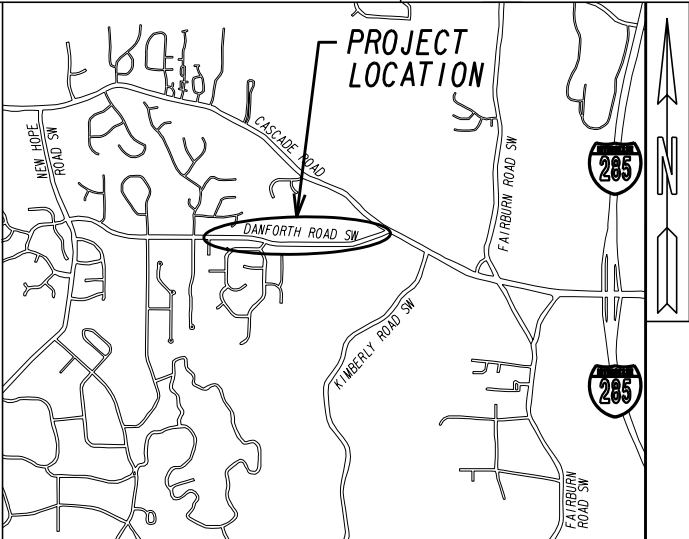
DRAWING INDEX	
DRAWING NO.	DESCRIPTION
44-0001	COVER
44-0002 to 44-0003	GENERAL NOTES
44-0004	LEGEND AND ABBREVIATIONS
44-0005 to 44-0010	UTILITY RELOCATION PLANS
44-0011 to 44-0014	CONSTRUCTION DETAILS
06-XXXX	SUMMARY OF QUANTITIES

CDM SMITH - BENCHMARK

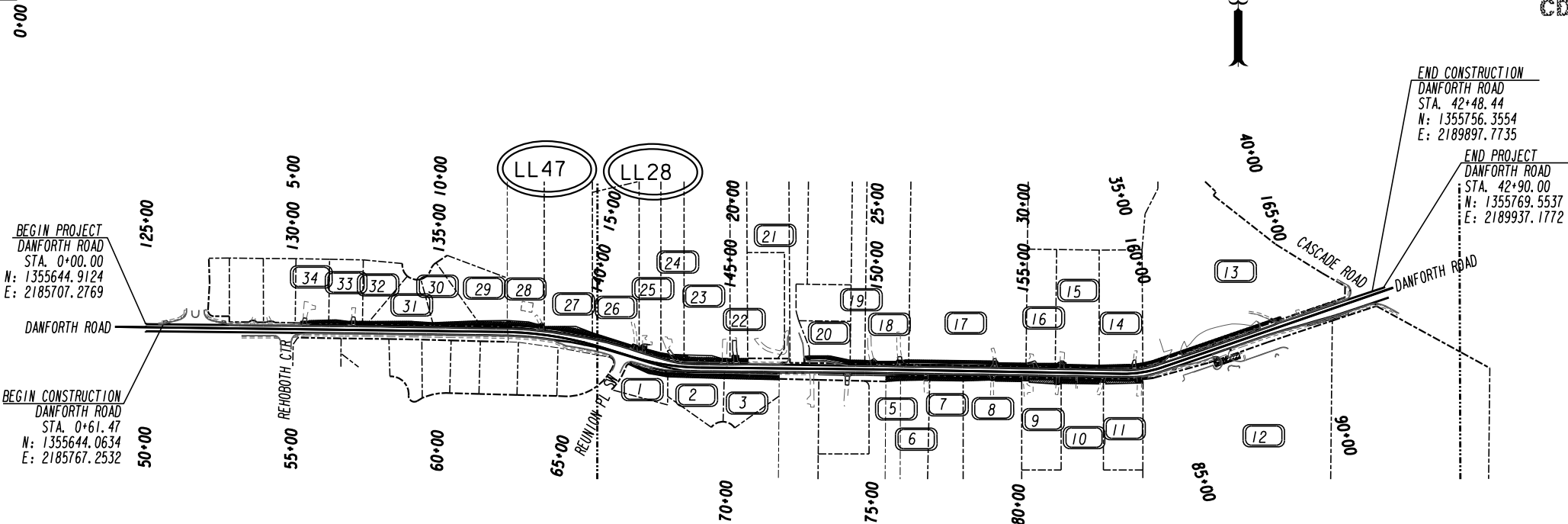
DESIGN



101 MARIETTA STREET N.W.
CENTENIAL TOWER, SUITE 2000
ATLANTA, GA 30303



LOCATION SKETCH - NOT TO SCALE



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.

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.

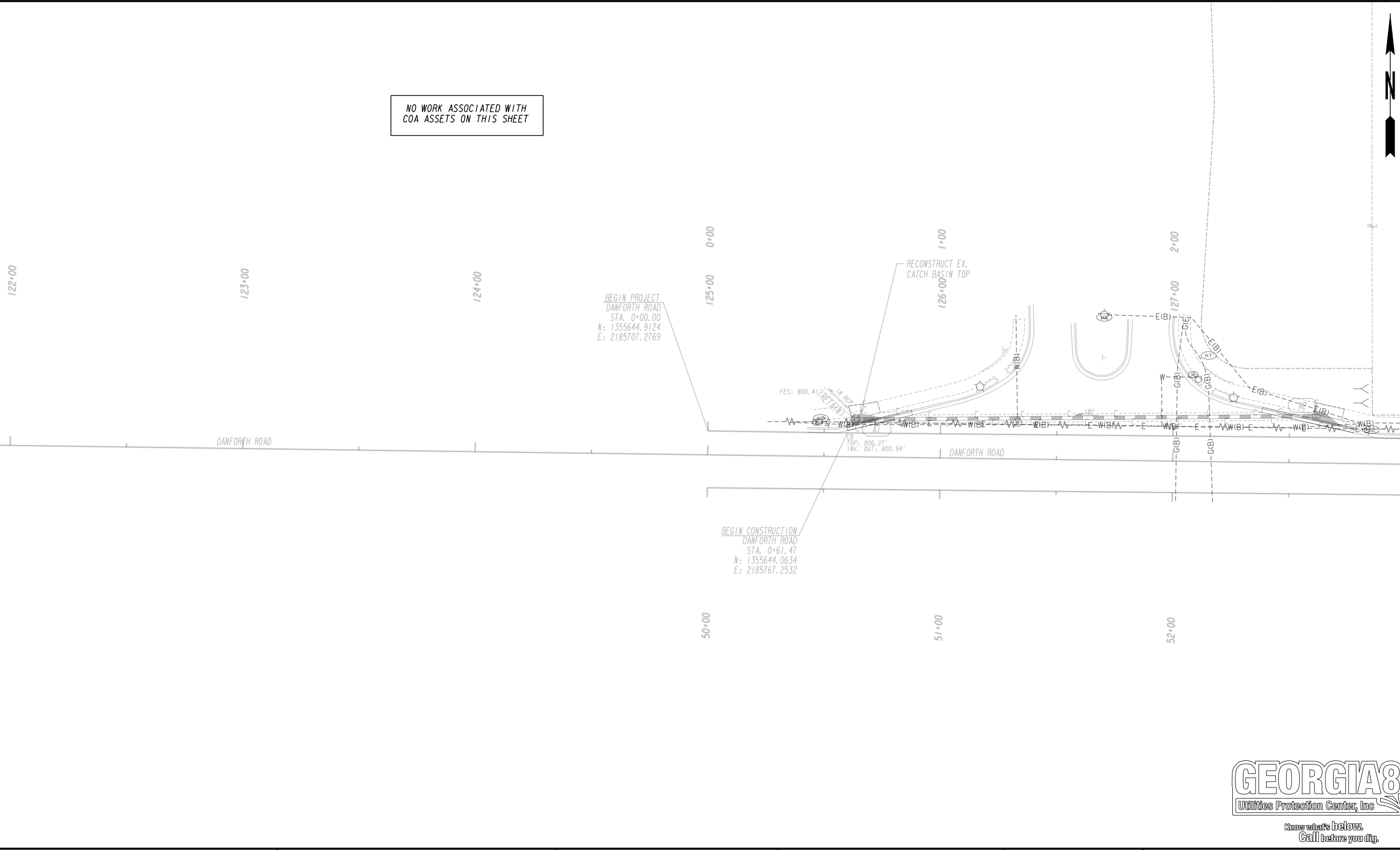
THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT 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.



PLANS COMPLETED	- -
REVISIONS	

UTILITY LINECODES				UTILITY SYMBOLS			
EXISTING		TO BE REMOVED		PROPOSED	TYPE OF UTILITY		
OVERHEAD					ELECTRIC		
					ELECTRIC (OL-C)		
					ELECTRIC (OL-B)		
					TELECOMMUNICATIONS (OL-D)		
					TELECOMMUNICATIONS (OL-C)		
					TELECOMMUNICATIONS (OL-B)		
					CABLE TV (OL-D)		
					CABLE TV (OL-C)		
					CABLE TV (OL-B)		
					WATER (OL-D)		
					WATER (OL-C)		
					WATER (OL-B)		
					WATER FOR LABELED PIPE SIZES (OL-D)		
					WATER FOR LABELED PIPE SIZES (OL-C)		
					WATER FOR LABELED PIPE SIZES (OL-B)		
UNDERGROUND					NON-POTABLE WATER (OL-D)		
					NON-POTABLE WATER (OL-C)		
					NON-POTABLE WATER (OL-B)		
					NON-POTABLE WATER FOR LABELED PIPE SIZES (OL-D)		
					NON-POTABLE WATER FOR LABELED PIPE SIZES (OL-C)		
					NON-POTABLE WATER FOR LABELED PIPE SIZES (OL-B)		
					STEAM (OL-D)		
					STEAM (OL-C)		
					STEAM (OL-B)		
					STEAM FOR LABELED PIPE SIZES (OL-D)		
					STEAM FOR LABELED PIPE SIZES (OL-C)		
					STEAM FOR LABELED PIPE SIZES (OL-B)		
					SANITARY SEWER WITH FLOW DIRECTION (OL-D)		
					SANITARY SEWER WITH FLOW DIRECTION (OL-C)		
					SANITARY SEWER WITH FLOW DIRECTION (OL-B)		
					SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (OL-D)		
					SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (OL-C)		
					SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (OL-B)		
					SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (OL-D)		
					SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (OL-C)		
					SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (OL-B)		
					GAS (OL-D)		
					GAS (OL-C)		
					GAS (OL-B)		
					GAS FOR LABELED PIPE SIZES (OL-D)		
					GAS FOR LABELED PIPE SIZES (OL-C)		
					GAS FOR LABELED PIPE SIZES (OL-B)		
					PETROLEUM (OL-D)		
					PETROLEUM (OL-C)		
					PETROLEUM (OL-B)		
					PETROLEUM FOR LABELED PIPE SIZES (OL-D)		
					PETROLEUM FOR LABELED PIPE SIZES (OL-C)		
					PETROLEUM FOR LABELED PIPE SIZES (OL-B)		
					TRAFFIC CONTROL (OL-D)		
					TRAFFIC CONTROL (OL-C)		
					TRAFFIC CONTROL (OL-B)		
					UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (OL-B)		
	FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS						

EXISTING			PROPOSED			TEMPORARY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
UTILITY POLE/GUY POLE			LIGHT POLE			GUY ANCHOR			MARKER			SPLICE BOX			CABINET			VENT			ELECTRIC MANHOLE			HAND HOLE			TRANSFORMER			ELECTRIC METER			ELECTRIC BOX			TELECOMMUNICATIONS MANHOLE			TELECOMMUNICATIONS PEDESTAL			SUBSCRIBER LOOP CARRIER (aka "SLICK")			PHONE BOOTH			CABLE TV PEDESTAL			CABLE TV MANHOLE			WATER VALVE			BUTTERFLY VALVE			WATER METER			WATER MANHOLE			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)			BACKFLOW PREVENTER			PRESSURE INDICATOR VALVE			AIR RELEASE VALVE			WELL			WATER VAULT			WATER VALVE MARKER			STAND PIPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						



Know what's below.
Call before you dig.

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
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

CDM SMITH
JOINT VENTURE
101 MARIETTA STREET N.W.
CENTENNIAL TOWER, SUITE 2000
ATLANTA, GA 30303

BENCHMARK

SCALE IN FEET
0 20 40 80

REVISION DATES

UTILITY RELOCATION PLANS
SIDEWALK IMPROVEMENT ON
DANFORTH ROAD

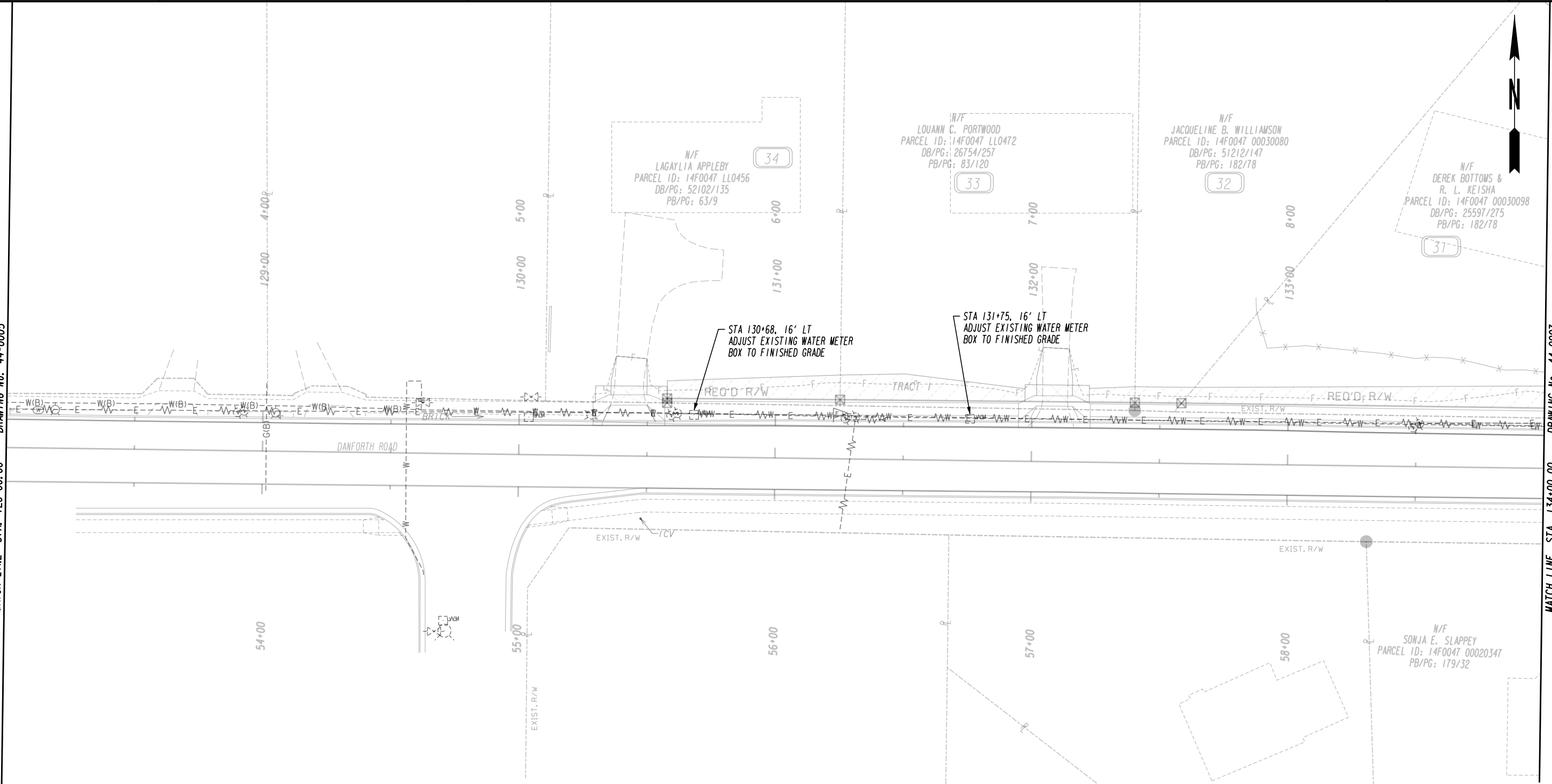
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44-0005

10/23/2015 GPLN

MATCH LINE STA. 128+00.00 DRAWING No. 44-0005

MATCH LINE STA. 134+00.00 DRAWING No. 44-0007



GEORGIA811

Utilities Protection Center, Inc

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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

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END LIMIT OF ACCESS.....ELA

LIMIT OF ACCESS

REQ'D R/W & LIMIT OF ACCESS

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA

(SEE ERIT TABLE)

CDM SMITH

BENCHMARK

JOINT VENTURE

101 MARIETTA STREET N.W.

CENTENNIAL TOWER, SUITE 2000

ATLANTA, GA 30303

SCALE IN FEET

0

20

40

80

REVISION DATES

UTILITY RELOCATION PLANS

SIDEWALK IMPROVEMENT ON

DANFORTH ROAD

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DATE:

BACKCHECKED:

DATE:

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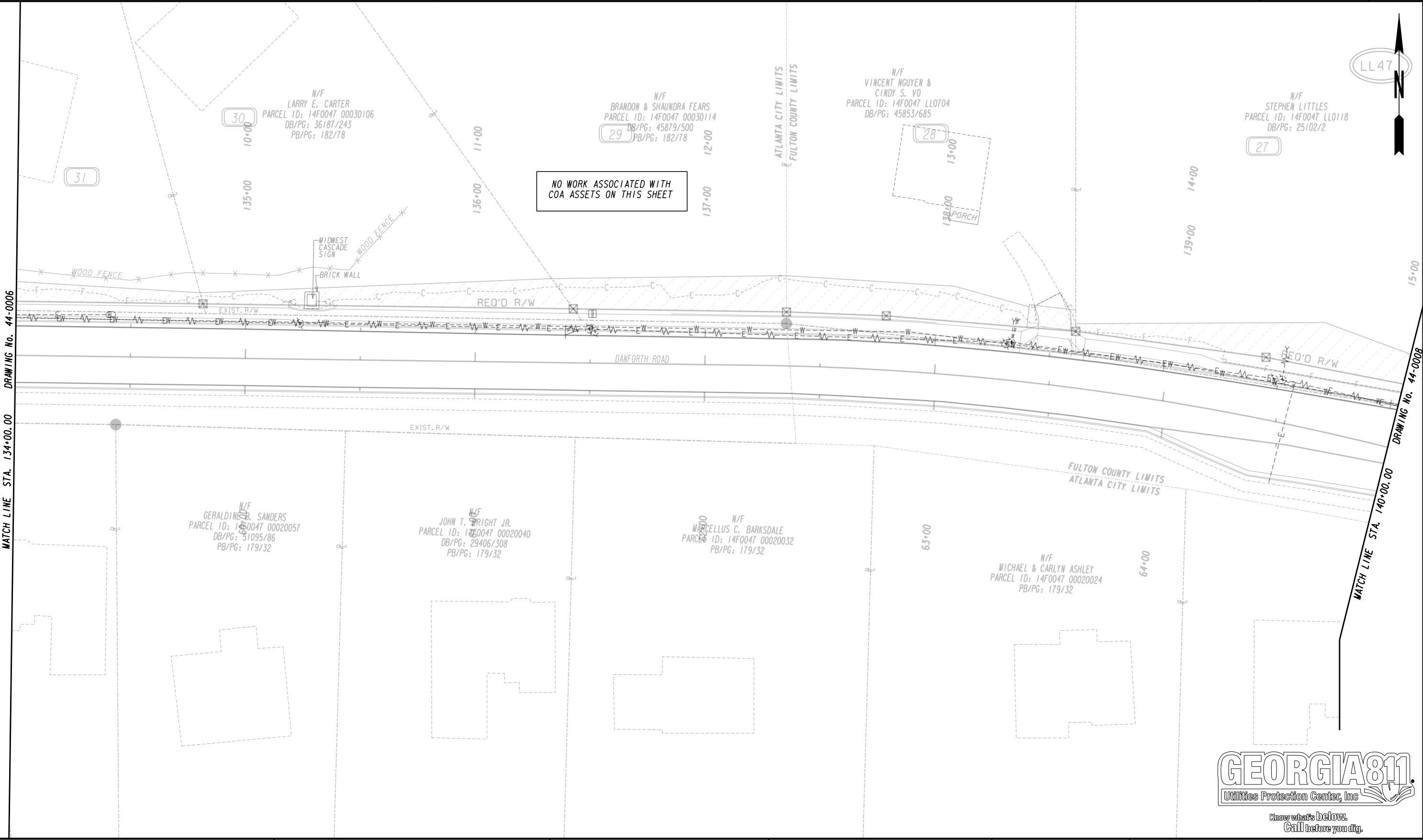
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DATE:

DRAWING No.

44-0006

10/23/2015 GPN



10/23/2015
GPLN

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

— P —

— C —

— F —

BEGIN LIMIT OF ACCESS.....BLA

END LIMIT OF ACCESS.....ELA

LIMIT OF ACCESS

REQ'D R/W & LIMIT OF ACCESS

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

CDM SMITH

BENCHMARK

JOINT VENTURE

101 MARIETTA STREET N.W.

CENTENNIAL TOWER, SUITE 2000

ATLANTA, GA 30303

SCALE IN FEET

0 20 40 80

REVISION DATES

UTILITY RELOCATION PLANS

SIDEWALK IMPROVEMENT ON

DANFORTH ROAD

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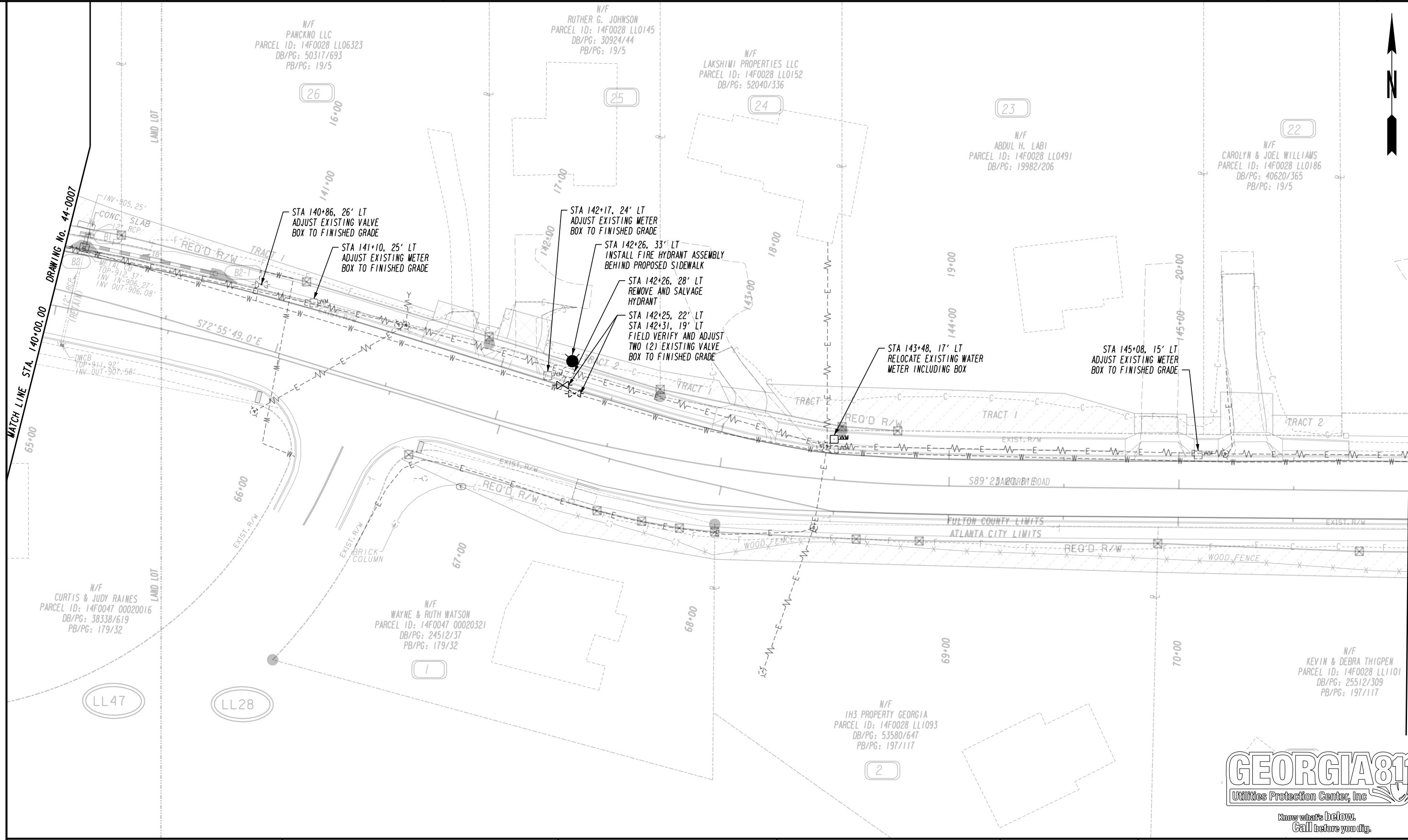
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PROPERTY AND EXISTING R/W LINE

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CDM SMITH

BENCHMARK

JOINT VENTURE

101 MARIETTA STREET N.W.

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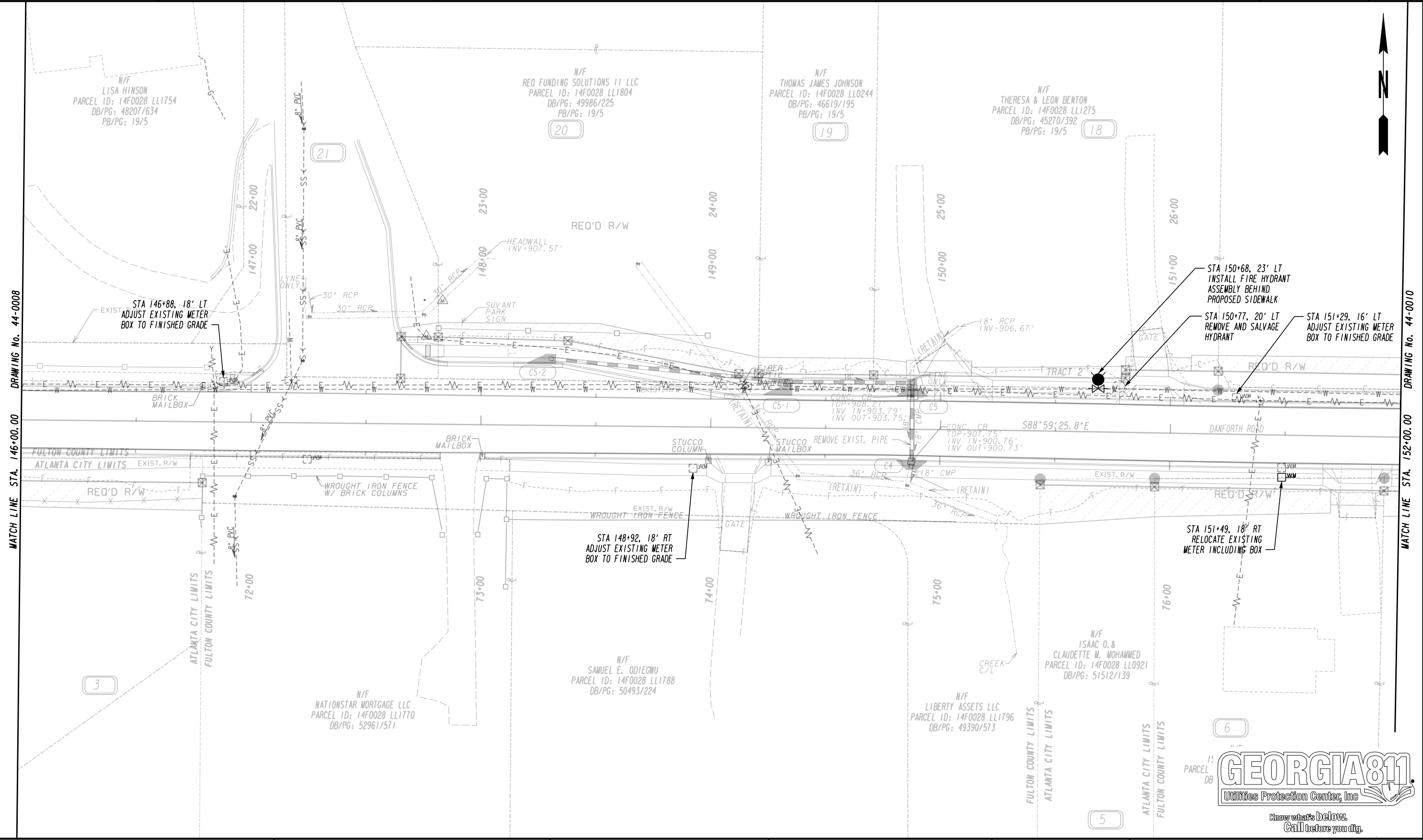
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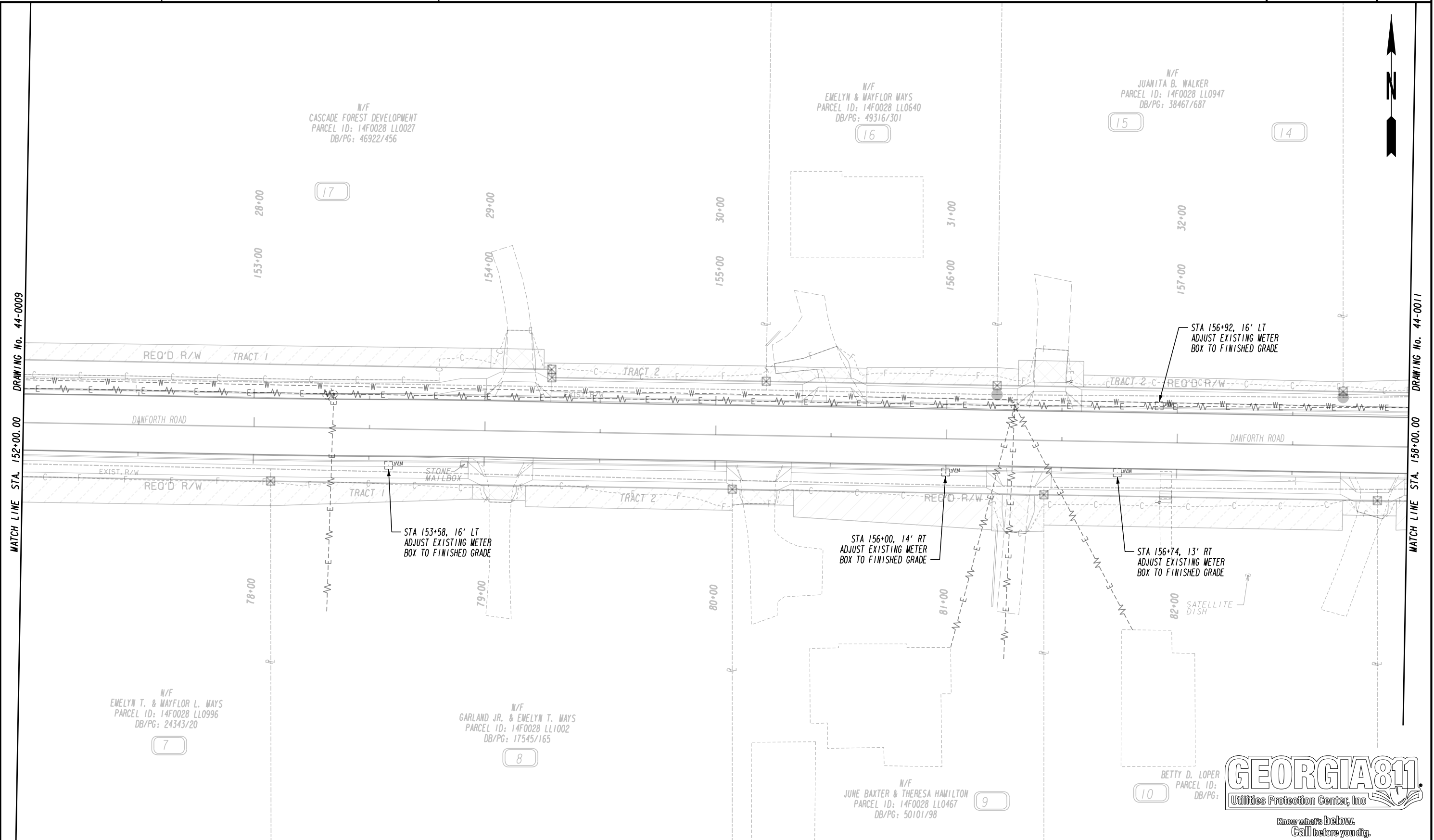
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DRAWING No.

44-0008

10/23/2015 GPLN

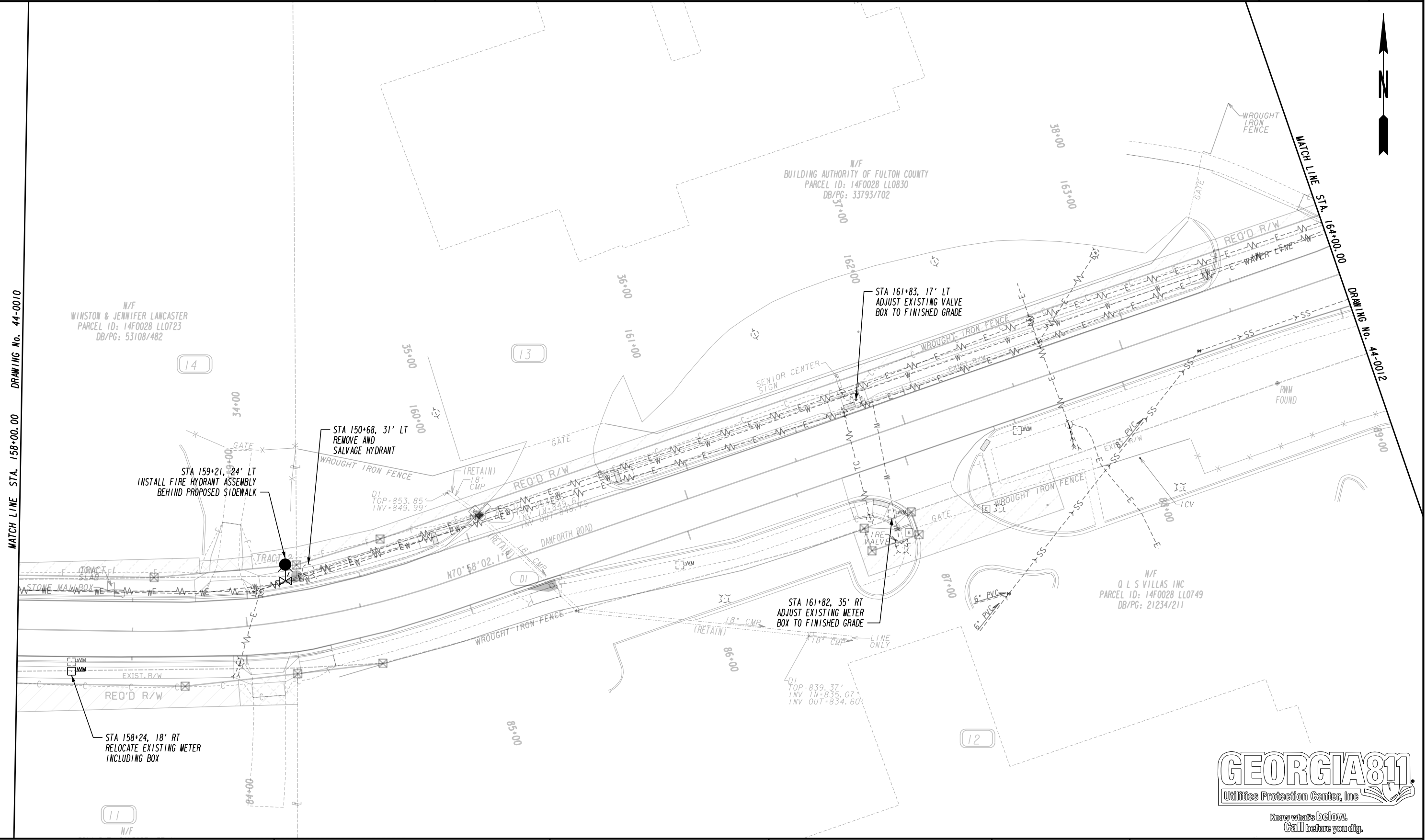




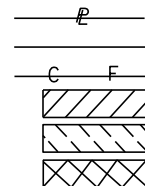
PROPERTY AND EXISTING R/W LINE
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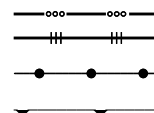
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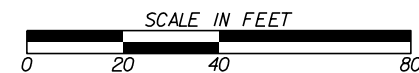
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BEGIN LIMIT OF ACCESS.....	BLA
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LIMIT OF ACCESS	—
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ORANGE BARRIER FENCE	—
ESA - ENV. SENSITIVE AREA	▼
(SEE ERIT TABLE)	



CDM SMITH BENCHMARK
JOINT VENTURE
101 MARIETTA STREET N.W.
CENTENNIAL TOWER, SUITE 2000
ATLANTA, GA 30303

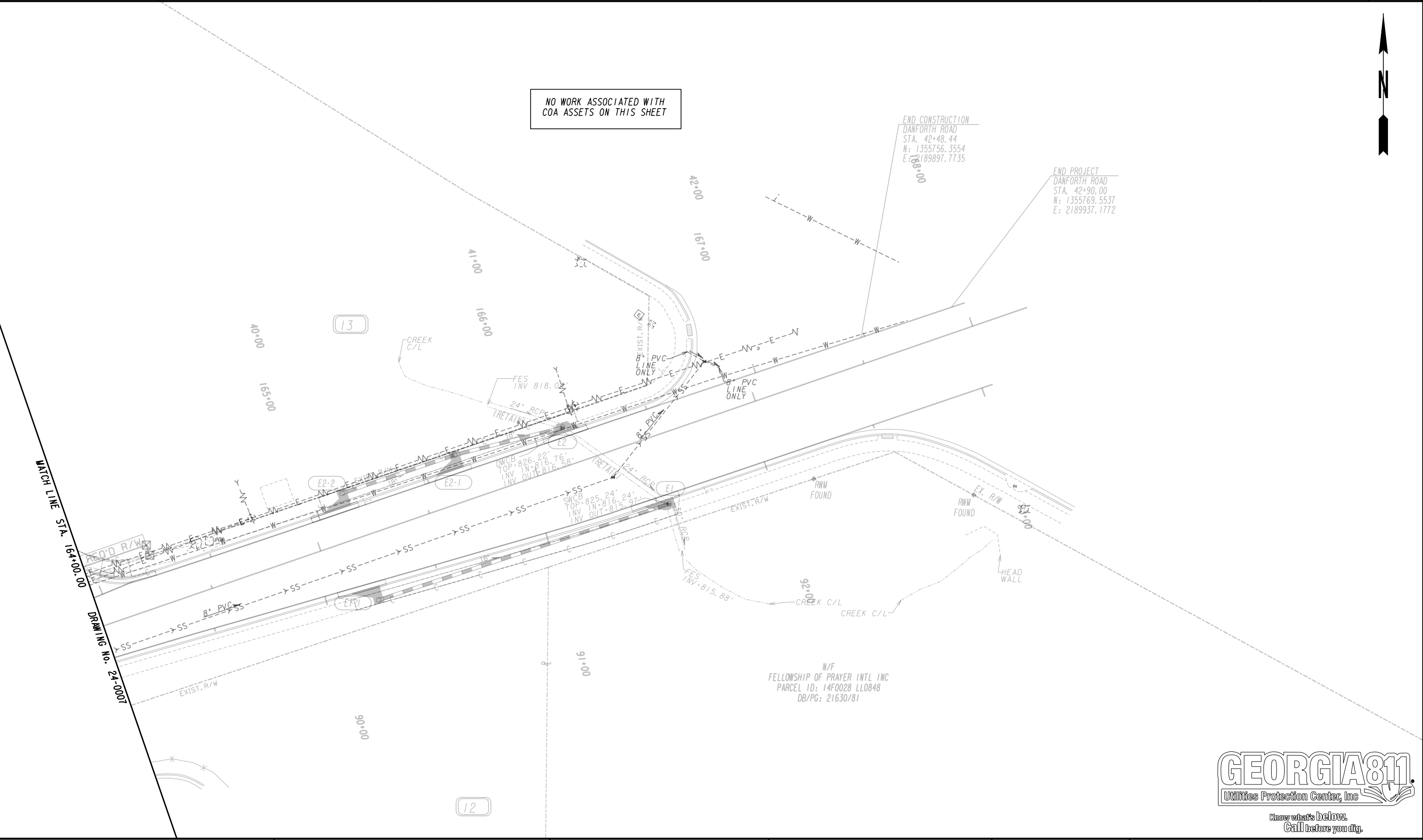
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UTILITY RELOCATION PLANS
SIDEWALK IMPROVEMENT ON
DANFORTH ROAD

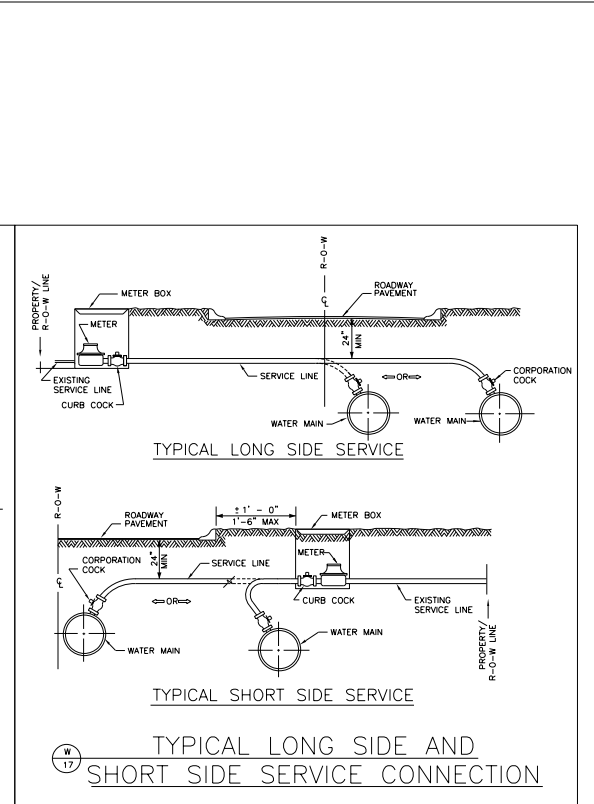
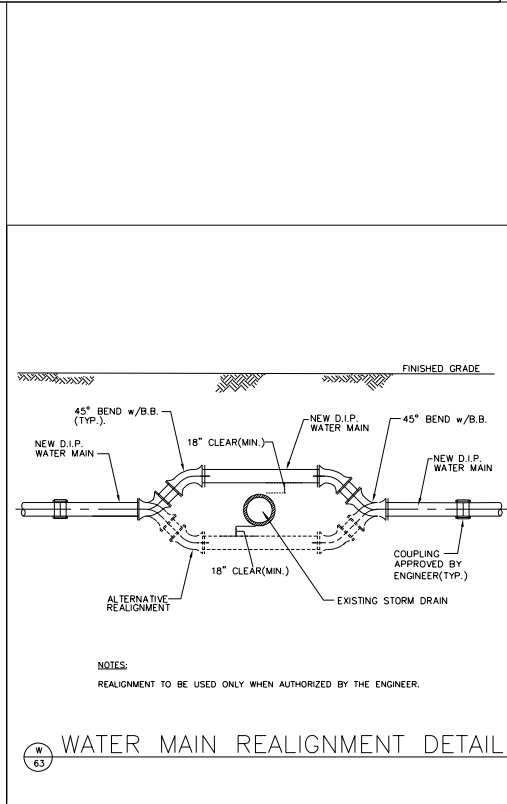
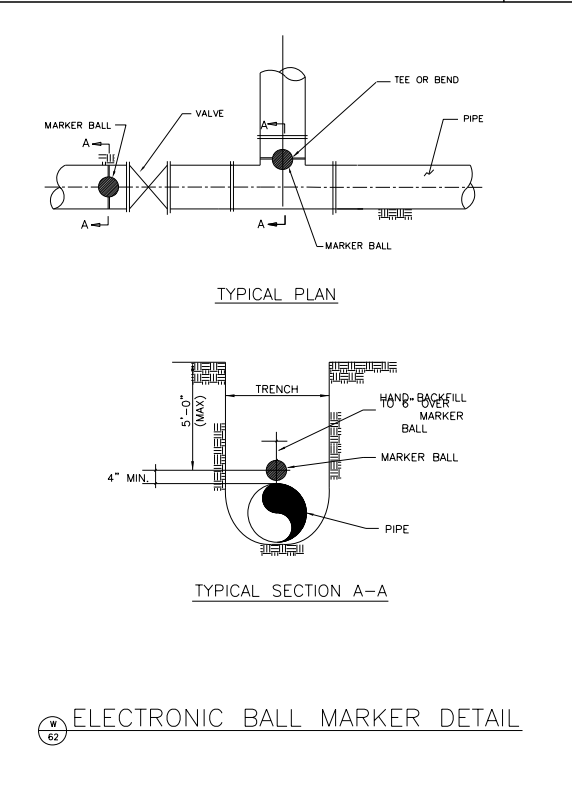
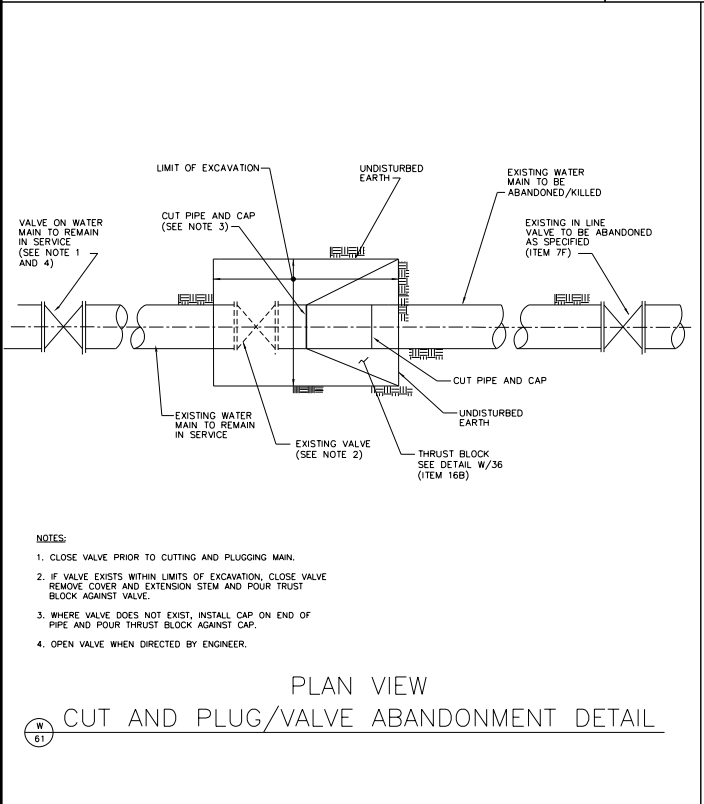
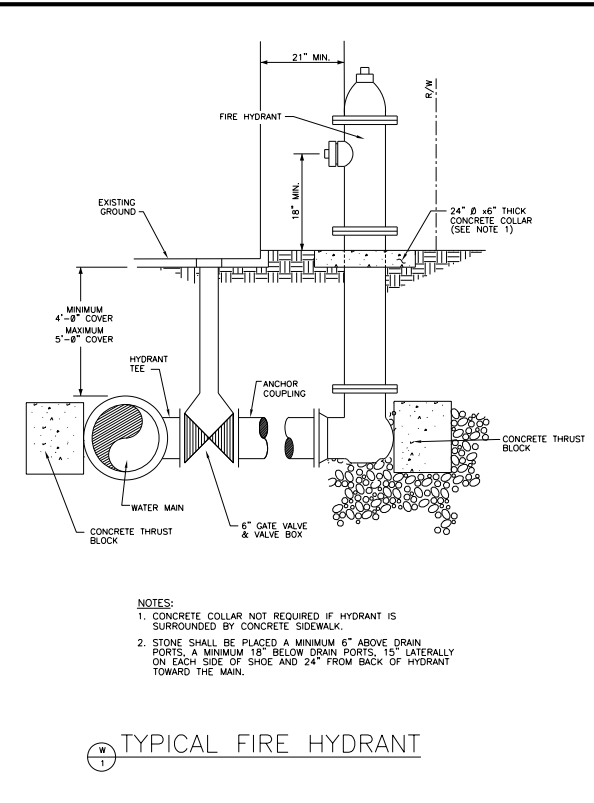
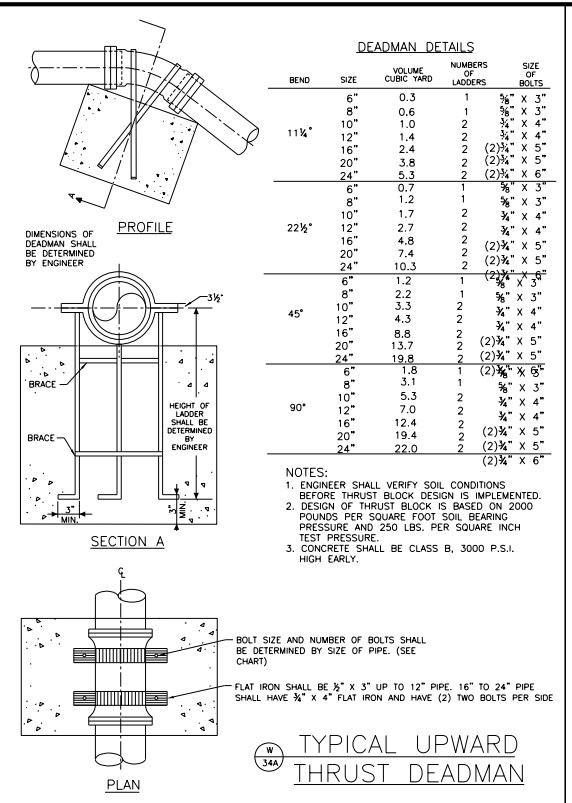
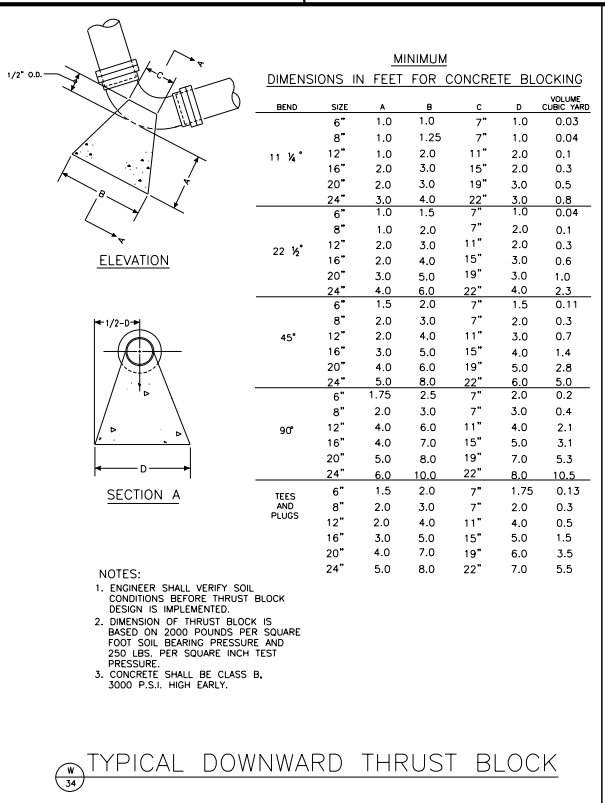
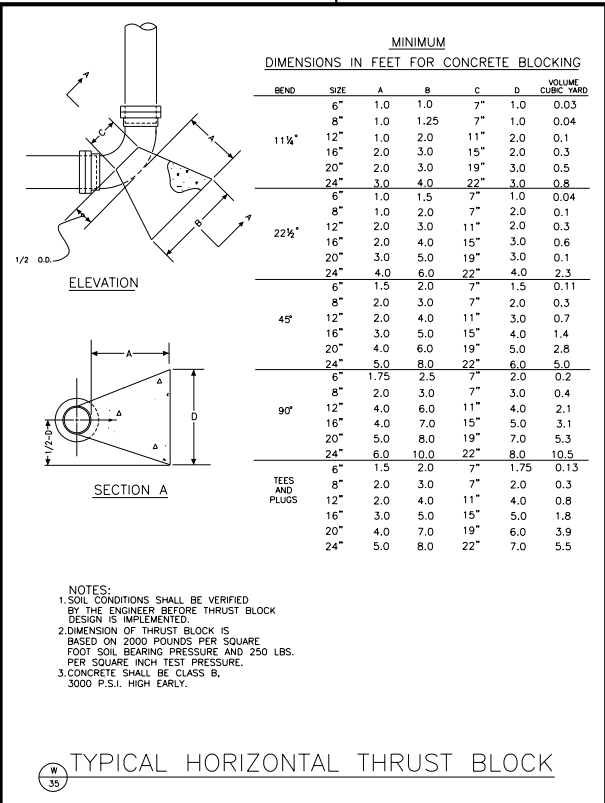
CHECKED:	DATE:	DRAWING No. 44-0011
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



NO WORK ASSOCIATED WITH
COA ASSETS ON THIS SHEET



Know what's below.
Call before you dig.



250 PSI TEST PRESSURE
2,500 PSF SOIL BEARING

BLOCKING DIMENSIONS					
DEAD END & TEES	X*	A	B	C	D
24"	2'-0"	4'-6"	14.0'	7.0'	
20"	1'-8"	3'-9"	11.7'	5.9'	
16"	1'-3"	3'-3"	9.5'	4.7'	
12"	1'-0"	2'-6"	7.1'	3.6'	
10"	1'-0"	2'-0"	6.0'	3.0'	
8"	0'-10"	1'-9"	4.9'	2.5'	
6"	0'-8"	1'-3"	3.7'	1.8'	

W 36

TYPICAL BLOCKING TEE AND DEAD END

NOTES:
1. REFER TO SECTION 02668 OF THE SPECIFICATIONS.
2. THIS DETAIL IS FOR SERVICE CONNECTIONS RANGING IN SIZE FROM 6" TO 24" IN DIAMETER.
3. LARGER SERVICE CONNECTIONS TO BE TRANSFERRED AS DIRECTED BY THE ENGINEER IN THE FIELD.

W 47B

TYPICAL SCHEMATIC FOR TRANSFERRED WATER SERVICE CONNECTION

THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: OCT. 2004 SCALE: N.T.S.
	TRENCH TERMINOLOGY	DETAIL NO. WR-G_TRO03

FOR EXCAVATION IN POOR SOIL: REMOVE UNSUITABLE MATERIAL TO WIDTH AND DEPTH DIRECTED. BEFORE PIPE IS LAID, THE SUBGRADE SHALL BE BACKFILLED WITH AN APPROVED MATERIAL IN 3" LAYERS, EACH LAYER SHALL BE THOROUGHLY TAMPED TO 95% COMPACTION.

NOTES:
1. COMPACTION: BACKFILLS SHALL BE BUILT UP IN LAYERS AND EACH LAYER SHALL BE THOROUGHLY COMPACTED BEFORE BEGINNING ANOTHER LAYER. LAYERS SHALL BE NO MORE THAN 12-INCHES IN DEPTH. PUDDING WILL NOT BE PERMITTED, NOR WILL FROZEN OR WET MATERIAL BE PLACED IN TRENCHES.
2. COMPACTION STANDARDS: ALL BACKFILL MATERIALS USED SHALL CONTAIN A SUFFICIENT AMOUNT OF MOISTURE FOR PROPER COMPACTION, AND THESE MATERIALS SHALL BE COMPACTED AT NOT LESS THAN 98% OF THEIR OPTIMUM COMPACTION FOR ANY SPECIFIC SOIL CLASSIFICATION, AS DETERMINED BY THE STANDARD PROCTOR TEST, ASTM D698.
3. COMPACTION TEST: COMPACTION TEST WILL BE REQUIRED IN EXISTING OR PROPOSED STREETS, SIDEWALKS, DRIVES AND OTHER EXISTING OR PROPOSED PAVED AREAS AT VARYING DEPTHS AND AT INTERVALS AS DETERMINED BY THE ENGINEER WITH A MINIMUM OF ONE TEST ON EACH JOB, AND A MAXIMUM OF ONE REQUIRED TEST FOR 400 FEET OF LESS OF WATER MAIN CONSTRUCTION, UNLESS SOIL CONDITIONS OR CONSTRUCTION PRACTICES, IN THE OPINION OF THE ENGINEER, WARRANT THE NEED FOR ADDITIONAL TESTS.

THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: OCT. 2004 SCALE: N.T.S.
	TYPICAL WATERLINE TRENCH SECTION	DETAIL NO. WR-G_TRO01

CONCRETE WITH ASPHALT OVERLAY

CONCRETE PAVEMENT

W 47A

ASPHALT & CONCRETE STREETCUT AND PAVEMENT REPLACEMENT

CONCRETE ENCASEMENT
N.T.S.

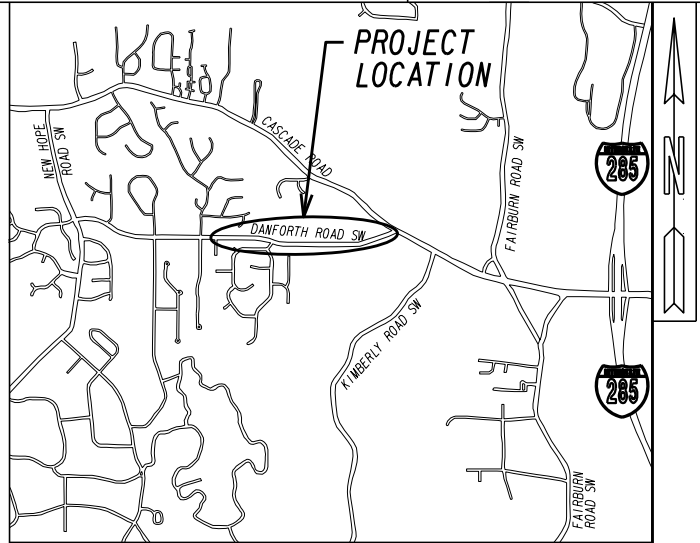
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

STANDARD DETAILS	DATE: FEB 2011 SCALE: N.T.S.
CONCRETE ENCASEMENT	DETAIL NO. G-4

DUCTILE IRON WATER MAIN TRENCH SECTION

W 47

REVISION DATES			CONSTRUCTION DETAILS SIDEWALK IMPROVEMENT ON DANFORTH ROAD			
			CHECKED:		DATE:	DRAWING No.
			BACKCHECKED:		DATE:	
			CORRECTED:		DATE:	
			VERIFIED:		DATE:	44-0014



LOCATION SKETCH

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.

BEGIN-POINT COORDINATES

Longitude: 84.5313° W

Latitude: 33.7262° N

MID-POINT COORDINATES

Longitude: 84.5244° W

Latitude: 33.7259° N

END-POINT COORDINATES

Longitude: 84.5174° W

Latitude: 33.7266° N

PRIMARY PERMITTEE

CITY OF SOUTH FULTON
DEPARTMENT OF PUBLIC WORKS
5440 Fulton Industrial Blvd. SW
Suite A
Atlanta, Georgia 30336
Phone: (470) 809-7451

CITY OF SOUTH FULTON
DEPARTMENT OF PUBLIC WORKS

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN
SIDEWALK IMPROVEMENTS
ON DANFORTH ROAD

FULTON COUNTY

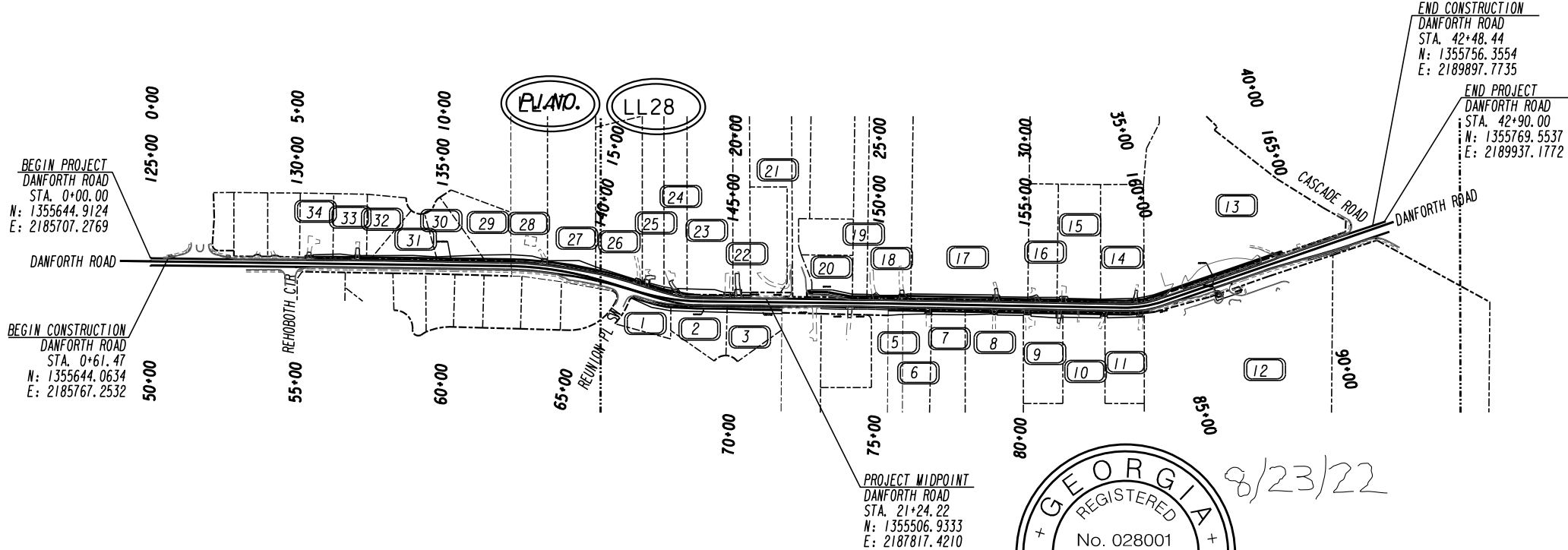
PROJECT NO. T-260

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GARI00002." TSF#0000018849

"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. GARI00002." TSF#0000018849

"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. GARI00002, 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." TSF#0000018849

"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." TSF#0000018849



24 HOUR CONTACT:

Name

Street Address

City, State Zip

Phone Number

Email Address

Contractor shall complete the information in this box.

LENGTH OF PROJECT

Project No.
T-260

MILES

NET LENGTH OF ROADWAY 0.000
NET LENGTH OF BRIDGES 0.000
NET LENGTH OF PROJECT 0.813
NET LENGTH OF EXCEPTIONS 0.000
GROSS LENGTH OF PROJECT 0.813

SCALE IN FEET



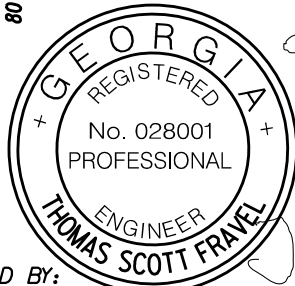
Branch Offices
O 65 Aberdeen Drive
Glasgow, KY 42141
(270) 651-7220
O 5160 Acworth Landing Drive
Acworth, GA 30101
(770) 421-8422
O 2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3813

AMERICAN ENGINEERS, INC.

www.aei.cc

PROFESSIONAL ENGINEERING

DESIGN CONSULTANT



SUBMITTED BY:

Thomas S. Fravel, P.E.

0000018849

GSWCC LEVEL II Certification Number

PLANS COMPLETED 08-23-2022

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: Fulton County SWCD

Project Name: T-260 Danforth Road Sidewalks

Address:

City/County: Fulton

Date on Plans: Friday, July 1, 2022

Name & email of person filling out checklist:

Luke Beavin, lbeavin@aei.cc

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0001	Y	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. (This optional checklist must be submitted with the ES&PC Plan for the Permit and not be checked)
50-0001	Y	2 Level of certification number issued by the Commission, signature and seal of the certified design professional responsible for the permit, and date of such certification (see ES&PC Manual for the certification procedure)
50-0001	Y	3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls
50-0001	Y	4 Provide the name, address, email address, and phone number of primary permittee
51-0003	Y	5 Note total and disturbed acreages of the project in phase under construction
50-0001	Y	6 Provide the GPS locations of the beginning and end of the land-disturbance project. Give the latitude and longitude in decimal degrees
50-0001	Y	7 Issue date of the Plan and the dates of any revisions made to the Plan including the only one requested by the reviewer
51-0002	Y	8 Description of the nature of construction activity and timing site conditions
50-0001	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of special phases, if necessary
50-0001	Y	10 Identify the proposed receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected
50-0001	Y	11 Design professional certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV.A.5 page 24 of the permit
50-0001	Y	12 Design professional 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.A.5 page 20 of the permit *
50-0001	Y	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.5.c.(3) page 37 of the permit as applicable *
51-0003	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is in regard to the installation of the initial sediment storage, resource, perimeter control BMPs, and sediment basins within 7 days after installation" as accordance with Part IV.A.5 page 20 of the permit *
51-0003	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 20- or 100-foot undisturbed stream buffers as measured from the point of interest 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"
51-0003	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required
51-0002	Y	17 Clearly note the statement that "Amendments 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	Y	18 Clearly note the statement that "Hazardous materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit" *
51-0002	Y	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	Y	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 correct or treat the sediment source"
51-0002	Y	21 Clearly note the statement "Any disturbed areas left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding"
51-0003 & 51-0002	Y	22 Any construction activity which discharges stormwater into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Design 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 *
51-0003	Y	23 If a TMDL Implementation Plan for sediment has been issued for the Impaired Stream Segment identified in item 22 above, attach 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	Y	24 BMPs to control washdown of tools, equipment, minor trucks, hoppers and the rear of the vehicles. Washdown of the dump at the construction site is prohibited *
51-0002	Y	25 Provide BMPs for the remediation of all pet debris, spills and leaks
51-0002	Y	26 Description of the measures that will be installed during the construction process to control pollutants in stormwater that will occur after construction operations have been completed *
51-0002	Y	27 Description of practices to provide cover by building materials and building products on site *
51-0002	Y	28 Description of the practices that will be used to reduce the pollutants in stormwater discharges *

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN				
51-0002	Y	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 installation, temporary and final stabilization)				
51-0003	Y	30 Provide complete requirements of inspections and record keeping by the primary permittee *				
51-0004	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results *				
51-0003	Y	32 Provide complete details for Rotation of Reservoirs as per Part IV.F. of the permit *				
51-0004	Y	33 Description of analytical methods to be used to collect and analyze the samples from each basin *				
51-0004	Y	34 Appendix B rationale for NTU values at all initial sampling points where applicable *				
50-0001	Y	35 Determine all sampling locations: perennial and intermittent streams and other water bodies into which stormwater is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable *				
51-0002	Y	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	Y	37 Graphic scale and North arrow				
50-0001	Y	38 Erosion and sediment control lines with color key design at an interval in accordance with the following				
		<table border="1"> <tr> <td>Erosion Control Lines</td><td>USGS 1" = 2000' Topographical Sheets</td></tr> <tr> <td>Perimeter Control Lines</td><td>USGS 1" = 2000' Topographical Sheets</td></tr> </table>	Erosion Control Lines	USGS 1" = 2000' Topographical Sheets	Perimeter Control Lines	USGS 1" = 2000' Topographical Sheets
Erosion Control Lines	USGS 1" = 2000' Topographical Sheets					
Perimeter Control Lines	USGS 1" = 2000' Topographical Sheets					
51-0003	Y	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as verified by a Design Professional (unless disapproved by GADPS) or the Georgia Soil and Water Conservation Commission. Please refer to the Alternative BMP Guidance Document found at www.gaswc.ga.gov				
51-0003	Y	40 Use of alternative BMP to application to the Equivalent BMP List House rules to Appendix A of the Manual for Erosion & Sediment Control in Georgia 2018 Edition. *				
50-0001	Y	41 Determination of the applicable 25-foot or 50 foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Licensing Authority. Clearly note and delineate all areas exempted				
50-0001	Y	42 Determination of on-site wetlands and all State waters located on and within 200 feet of the project site				
50-0001	Y	43 Determination and storage of sediment during drainage basins on the project site				
50-0001	Y	44 Determination of site drainage and off-site waterways using USGS 1" = 2000' Topographical Sheets				
50-0001	Y	45 An estimate of the runoff discharge rate peak discharge flow of the site prior to and after construction activities are completed				
50-0001	Y	46 Storm drain pipe and over velocities with appropriate water protection to accommodate discharges without erosion. Identify/delineate all storm water discharge points				
51-0002	Y	47 Soil series for the project site and their delineation				
50-0001	Y	48 The link of data base for each phase of construction				
51-0003	Y	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, reworked detention pond, and/or excavated and sediment traps for each cumulative 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 achievable must be included in the Plan for each common drainage location in which a sediment basin is not achievable. A written justification as to why 67 cubic yards of storage is not achievable must also be given. Washdown from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage volume using equivalent controls. When discharging to a sediment trap, any equipment, personnel, or material exposed to surface water structures that withdraw water from the surface, unless indicated, if outlet structures that withdraw water from the surface are not feasible. A written justification explaining this decision must be included in the Plan				
50-0001	Y	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 understanding symbols from the Manual, Chapter 6, with legend				
50-0001	Y	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	Y	52 Provide vegetation plan, listing 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. Fertilizing will take place and for the appropriate geographic region of Georgia				

* Using this checklist for a project that covers less than 1 acre and not part of a common development but within 200 feet of a perennial stream, the * checklist items would be N/A

Effective January 1, 2022

PLANS PREPARED AND SUBMITTED BY:



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Gadsden, KY 42424
(270) 651-7220

Branch Office

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2500 Nelson Miller Parkway
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AMERICAN ENGINEERS, INC.

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PROFESSIONAL ENGINEERING

DESIGN CONSULTANT

REVISION DATES

ESPCP GENERAL NOTES

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING NO.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

51-0001

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 erosion control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

ESPCP ALTERATIONS

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. Admendments/revisions to the ESPCP which have a significant effect on BMPs with a hydraulic component requirues 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 exlts. 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).

Stage 1A
Install initial BMPs throughout project corridor prior to other construction activities.

Stage 1:
Construct all elements of the construction plans in this phase. Install intermediate and final BMPs, including slope stability mats, and temporary grassing.

Stage 2:
Install remaining final BMPs and permanent grassing. Remove intermediate BMPs once all other construction activities are completed.

ANTICIPATED ACTIVITY SCHEDULE

ACTIVITY / MONTH	1	2	3	4	5	6	7	8	9	10	11	12
INITIAL EROSION AND SEDIMENT CONTROL												
INTERMEDIATE EROSION AND SEDIMENT CONTROL												
CLEARING AND GRUBBING												
GRADING												
STORM DRAINAGE												
UTILITY RELOCATION												
SIDEWALK CONSTRUCTION												
MAINTAIN EROSION CONTROL												
FINAL STABILIZATION												
CLEAN UP												

ANTICIPATED START DATE: SEPTEMBER 2022

SITE STABLIZATION AND VEGETATION PLANTING SCHEDULE

The EPD General NPDES GARIO0002 permit states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 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 14 days. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

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, fertililizing, 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 GARIO0002 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.

WASTE DISPOSAL

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 GARIO0002 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.A2 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,plis,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".

OTHER CONTROLS

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 and slope stabilization matting. 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:

T-260 Danforth Road Sidewalks	
Symbol	Name
CaA	Cartecay-Toccoa complex, 0 to 2 percent slopes, occasionally flooded
CpA	Congaree sandy loam, 0 to 2 percent slopes, occasionally flooded
ReD	Rion sandy loam, 10 to 15 percent slopes
UfC2	Urban land-Cecil complex, 2 to 10 percent slopes, moderately eroded
UrE	Urban land-Rion complex, 10 to 25 percent slopes

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>.

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.

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REVISION DATES

ESPCP GENERAL NOTES

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

51-0002

SEDIMENT STORAGE

The site has a total disturbed area of 1.77 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.

Outfall	Location	Total Drainage Area (ac)	Disturbed Area (ac)	Required Sediment Storage Volume (yd³)	Total Storage Volume Provided (yd³)	Rock Filter Dams (25 yd³/each)		Check Dams (16 yd³/each)		Inlet Sediment Traps (12 yd³/each)		Silt Gates (12 yd³/each)		Silt Fence (0.3 yd³/ft)	
						# of Devices	Total Volume (yd³)	# of Devices	Total Volume (yd³)	# of Devices	Total Volume (yd³)	# of Devices	Total Volume (yd³)	Length (ft)	Total Volume (yd³)
A	0+49.21, 19' LT	0.848	0.260	57	36		0		0	3	36		0		0
B	15+11.56, 10' LT	1.142	0.212	77	61	1	25		0	3	36		0		0
C	75+25.38, 27' RT	9.348	0.451	626	119		0		0	8	96		0	78	23
D	85+43.59, 17' RT	9.900	0.521	663	173		0		0	4	48		0	415	125
E	91+53.84, 25' RT	20.336	0.170	1362	121		0		0	7	84		0	124	37
Total Sheet Flow		0.158	0.158	11	579		0		0		0		0	1931	579

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. Temporary sediment basins are not utilized on this project. Sediment storage is met for the overall project site by equivalent sediment storage controls including rock filter dams, inlet sediment traps, and silt fence. Justification for not using a sediment basin and/or not meeting required storage volume based on drainage area at each outfall location is listed below.

Outfall A: A sediment basin is not used at this location. The total drainage area in this basin is 0.848 acres. The disturbed acreage within the drainage area is 0.260 acres. The disturbance activities within this outfall consist of clearing, grading, and sidewalk construction. It would be unfeasible to utilize a sediment basin at this outfall as land disturbance activities associated with the construction and removal of a sediment basin would require additional right of way and cause adverse impacts. The required storage volume based on drainage area is not met for this outfall; however, the actual disturbed area is significantly smaller than the drainage area so the storage provided will be sufficient to store sediment disturbed by construction activity from this project in this area.

Outfall B: A sediment basin is not used at this location. The total drainage area in this basin is 1.142 acres. The disturbed acreage within the drainage area is 0.212 acres. The disturbance activities within this outfall consist of clearing, grading, and sidewalk construction. It would be unfeasible to utilize a sediment basin at this outfall as land disturbance activities associated with the construction and removal of a sediment basin would require additional right of way and cause adverse impacts. The required storage volume based on drainage area is not met for this outfall; however, the actual disturbed area is significantly smaller than the drainage area so the storage provided will be sufficient to store sediment disturbed by construction activity from this project in this area.

Outfall C: A sediment basin is not used at this location. The total drainage area in this basin is 9.348 acres. The disturbed acreage within the drainage area is 0.451 acres. The disturbance activities within this outfall consist of clearing, grading, and sidewalk construction. It would be unfeasible to utilize a sediment basin at this outfall as land disturbance activities associated with the construction and removal of a sediment basin would require additional right of way and cause adverse impacts. The required storage volume based on drainage area is not met for this outfall; however, the actual disturbed area is significantly smaller than the drainage area so the storage provided will be sufficient to store sediment disturbed by construction activity from this project in this area.

Outfall D: A sediment basin is not used at this location. The total drainage area in this basin is 9.900 acres. The disturbed acreage within the drainage area is 0.521 acres. The disturbance activities within this outfall consist of clearing, grading, and sidewalk construction. It would be unfeasible to utilize a sediment basin at this outfall as land disturbance activities associated with the construction and removal of a sediment basin would require additional right of way and cause adverse impacts. The required storage volume based on drainage area is not met for this outfall; however, the actual disturbed area is significantly smaller than the drainage area so the storage provided will be sufficient to store sediment disturbed by construction activity from this project in this area.

Outfall E: A sediment basin is not used at this location. The total drainage area in this basin is 20.336 acres. The disturbed acreage within the drainage area is 0.170 acres. The disturbance activities within this outfall consist of clearing, grading, and sidewalk construction. It would be unfeasible to utilize a sediment basin at this outfall as land disturbance activities associated with the construction and removal of a sediment basin would require additional right of way and cause adverse impacts. The required storage volume based on drainage area is not met for this outfall; however, the actual disturbed area is significantly smaller than the drainage area so the storage provided will be sufficient to store sediment disturbed by construction activity from this project in this area.

RIPRAP OUTLET PROTECTION

Station and Offset	Pipe Diameter D _o (ft)	Q ₂₅ {ft³/s}	V ₂₅ {ft/s}	Tailwater Condition {TW<0.5 D _o TW>0.5 D _o }	Width at Drainage Structure W ₁ (ft)	Apron Length L _a (ft)	Downstream Width W ₂ (ft)	Average Stone Diameter d ₅₀ (ft)	Apron Thickness D (ft)	Riprap Type	Quantity {yd³}
15+11.56, 10' LT	1.50	7.13	5.47	TW>0.5 D _o	4.50	7.5	9.50	0.26	2.00	Type 3	7

INSPECTIONS AND REPORTING

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.

As the primary permittee, the Department 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. Additionally, the Department's Construction Project Engineer will be responsible for all subsequent 7 day inspections for all new BMP installations.

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 the Department finds that 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 Department 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.

RETENTION OF RECORDS

The Department will retain all records related to the implementation of this ESPCP in accordance with Part IV.F of the General Permit GAR100002.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPs:

No alternative or additional BMPs will be used on this project.

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 A Sta. 0+49.21, 19' LT	Utoy Creek	North and South Utoy Creeks to the Chattahoochee River - Atlanta	Bio F	UR	4a, 5	N/A
Outfall B Sta. 15+11.56, 10' LT	Utoy Creek	North and South Utoy Creeks to the Chattahoochee River - Atlanta	Bio F	UR	4a, 5	N/A
Outfall C Sta. 75+25.38, 27' RT	Utoy Creek	North and South Utoy Creeks to the Chattahoochee River - Atlanta	Bio F	UR	4a, 5	N/A
Outfall D Sta. 85+43.59, 17' RT	Utoy Creek	North and South Utoy Creeks to the Chattahoochee River - Atlanta	Bio F	UR	4a, 5	N/A
Outfall E Sta. 91+53.84, 25' RT	Utoy Creek	North and South Utoy Creeks to the Chattahoochee River - Atlanta	Bio F	UR	4a, 5	N/A
TMDLs completed FC 2003 (revised 2008), Cu 2003, Zn 2003.						

See Appendix I for additional required BMPs for this project.

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.

NTS

REVISION DATES

ESPCP GENERAL NOTES

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

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 6.29 acres.											Representative Sampling Scheme				
SAMPLING INFORMATION											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 (mi²)	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	0+49.21, 19' LT	Tributary to Utoy Creek	All	Outfall	2.37	N/A	Warm	75	N/A	Existing 18" RCP	Sidewalk	0.260	0.027	6	A
2	15+11.56, 10' LT	Tributary to Utoy Creek	All	Outfall	2.37	N/A	Warm	75	N/A	18" RCP	Sidewalk	0.212	0.014	6	B
3	75+25.38, 27' RT	Tributary to Utoy Creek	All	Outfall	2.37	N/A	Warm	75	N/A	Existing 36" RCP	Sidewalk	0.451	0.011	6	C
4	92+77.84, 67' RT	Tributary to Utoy Creek	All	Outfall	0.21	N/A	Warm	75	N/A	Existing Inlet Headwall	Sidewalk	0.691	0.010	6	D, E

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.

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REVISION DATES

ESPCP GENERAL NOTES

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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CORRECTED:	DATE:	
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.

Plan Page #	Included Y/N	
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
51-0005	Y	e. Use flocculants or coagulants 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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-5 (a)(1).
<input type="checkbox"/>	<input type="checkbox"/>	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.
51-0005	Y	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.
<input type="checkbox"/>	<input type="checkbox"/>	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)
<input type="checkbox"/>	<input type="checkbox"/>	k. 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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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.
51-0005	Y	p. Conduct soil tests to identify and to implement site-specific fertilizer needs.
51-0005	Y	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) *
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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)
<input type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	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 Section IV.A.5 of the permit. <i>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</i>
<input type="checkbox"/>	<input type="checkbox"/>	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, 2022

* 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 Section IV.D.4.a.(3)(a) – (c) of the permit.

APPENDIX 1 ITEMS

FLOCCULANTS OR COAGULANTS AND/OR MULCH (e.)

Use flocculants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Section III. D.1. of the NPDES Permit.

LIMITING DISTURBED AREA (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.

SOIL TESTS (p.)

Conduct soil tests to identify and to implement site-specific fertilizer needs.

INSPECTIONS (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 Section IV.D.4.a.(3)(a) – (c); secondary permittees, Section IV.D.4.b.(3)(a) – (c); and tertiary permittees Section IV.D.4.c.(3)(a) – (c) *

* 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 Section IV.D.4.a.(3)(a) – (c) of the permit.

Revised Total Maximum Daily Load Evaluation
Chattahoochee River Basin (Fecal coliform)

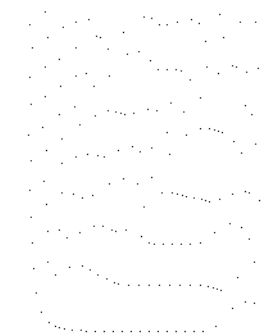
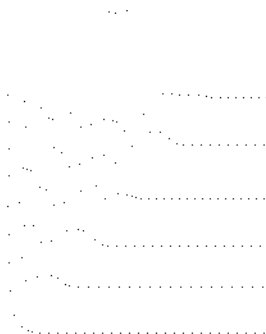
November 2008

Stream Segment	Current Load (cnts/30 days)	TMDL Components					Percent Reduction
		WLA (cnts/30 days)	WLA _{SW} (cnts/30 days)	LA (cnts/30 days)	MOS (cnts/30 days)	TMDL (cnts/30 days)	
Suwanee Creek	5.80E+13	1.76E+11	2.53E+12	5.06E+12	8.62E+11	8.62E+12	85%
Sweetwater Creek- Paulding/Cobb	1.09E+13		3.67E+12	8.35E+12	6.53E+11	6.53E+12	40%
Sweetwater Creek - Cobb/Douglas	1.59E+13		2.49E+11	5.63E+12	1.33E+12	1.33E+13	16%
Tanyard Branch	3.11E+13	Q*200*	1.49E+11	6.37E+10	2.36E+10	2.36E+11	99%
Tanyard Creek	6.32E+11			1.02E+11	1.14E+10	1.14E+11	82%
Testnatee Creek - Cleveland	5.78E+12	6.83E+10		3.23E+12	3.67E+11	3.67E+12	37%
Testnatee Creek - Town Creek to Chestatee River	5.78E+12			3.30E+12	3.67E+11	3.67E+12	37%
Tributary to Mud Creek	2.36E+11		7.58E+10	1.39E+11	2.39E+10	2.39E+11	0%
Utoy Creek	5.53E+12		3.61E+11	3.19E+11	7.56E+10	7.56E+11	86%
Ward Creek	5.79E+11		2.11E+11	1.17E+11	3.65E+10	3.65E+11	37%
Weracoba Creek	5.64E+11		3.98E+10	3.76E+10	8.60E+09	8.60E+10	85%
White Oak Creek	2.50E+12		8.43E+10	1.61E+12	1.89E+11	1.89E+12	25%
Wilkeo Creek	1.51E+12		6.98E+11	3.68E+11	1.18E+11	1.18E+12	22%
Woodall Creek	2.15E+13		8.12E+10	4.64E+10	1.42E+10	1.42E+11	99%

Note: The TMDL was developed for the "current" critical conditions. The average stream flow for the critical period was used to determine the TMDL and the corresponding monthly average discharge from each wastewater treatment facility was used to determine the WLA.



Georgia Environmental Protection Division
Atlanta, Georgia



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51-0005

Total Maximum Daily Load Evaluation
Chattahoochee River Basin (Copper)

January 2003

Table 12. Copper TMDL Summary for Utoy Creek

Parameter	Criteria	WLA	LA	MOS	TMDL
Total Dissolved Copper	Chronic	*Not Applicable for the 7Q10	0.034 kg/day for the 7Q10	Implicit	0.034 kg/day for the 7Q10
		$\Sigma Q_{WLA} \times 4.09 \text{ }\mu\text{g/L}$ for all conditions and flows	$\Sigma Q_{LA} \times 4.09 \text{ }\mu\text{g/L}$ for all conditions and flows		$Q_{total} \times 4.09 \text{ }\mu\text{g/L}$ for all conditions and flows
Total Dissolved Copper	Acute	*Not Applicable for the 1Q10	0.0429 kg/day for the 1Q10	Implicit	0.0429 kg/day for the 1Q10
		$\Sigma Q_{WLA} \times 5.67 \text{ }\mu\text{g/L}$ for all conditions and flows	$\Sigma Q_{LA} \times 5.67 \text{ }\mu\text{g/L}$ for all conditions and flows		$Q_{total} \times 5.67 \text{ }\mu\text{g/L}$ for all conditions and flows
Total Recoverable Copper	Chronic	*Not Applicable for the 7Q10	0.109 kg/day for the 7Q10	Implicit	0.109 kg/day for the 7Q10
		$\Sigma Q_{WLA} \times 13.1 \text{ }\mu\text{g/L}$ for all conditions and flows	$\Sigma Q_{LA} \times 13.1 \text{ }\mu\text{g/L}$ for all conditions and flows		$Q_{total} \times 13.1 \text{ }\mu\text{g/L}$ for all conditions and flows
Total Recoverable Copper	Acute	*Not Applicable for the 7Q10	0.137 kg/day for the 1Q10	Implicit	0.137 kg/day for the 1Q10
		$\Sigma Q_{WLA} \times 18.1 \text{ }\mu\text{g/L}$ for all conditions and flows	$\Sigma Q_{LA} \times 18.1 \text{ }\mu\text{g/L}$ for all conditions and flows		$Q_{total} \times 18.1 \text{ }\mu\text{g/L}$ for all conditions and flows

* Based on the Draft Interoffice Memorandum on "Estimating Water Quality Loadings from MS4 Areas" dated 12/19/02, "If the critical period is a low flow event, the load from the MS4 does not have to be quantified and a WLA for the storm water sources is not necessary..."

ΣQ_{WLA} is the sum of all current, potential and future NPDES regulated point sources discharges to the watershed, including both continuous and storm water discharges.

Georgia Environmental Protection Division
Atlanta, Georgia

Total Maximum Daily Load Evaluation
Utoy Creek (Zinc)

January 2003

The MOS was implicitly incorporated into the TMDL for Utoy Creek through the use of critical conditions established in Section 4.2 of this report. Through the use of low flow conditions, the lowest of available hardness values, and the methods used to develop the translators, the margin of safety for this TMDL adequately accounts for the lack of knowledge concerning the relationship between effluent limitations and water quality.

5.5 Total Maximum Daily Load

This TMDL can be summarized as follows:

Table 5. Zinc TMDL Summary for Utoy Creek

Parameter	Criteria	WLA	LA	MOS	TMDL
Total Dissolved Zinc	Chronic	*Not Applicable for the 7Q10	0.45 kg/day for the 7Q10	Implicit	0.45 kg/day for the 7Q10
		$\Sigma Q_{WLA} \times 54 \text{ }\mu\text{g/L}$ for all conditions and flows	$\Sigma Q_{LA} \times 54 \text{ }\mu\text{g/L}$ for all conditions and flows		$Q_{total} \times 54 \text{ }\mu\text{g/L}$ for all conditions and flows
Total Dissolved Zinc	Acute	*Not Applicable for the 7Q10	0.41 kg/day for the 1Q10	Implicit	0.41 kg/day for the 1Q10
		$\Sigma Q_{WLA} \times 54 \text{ }\mu\text{g/L}$ for all conditions and flows	$\Sigma Q_{LA} \times 54 \text{ }\mu\text{g/L}$ for all conditions and flows		$Q_{total} \times 54 \text{ }\mu\text{g/L}$ for all conditions and flows
Total Recoverable Zinc	Chronic	*Not Applicable for the 7Q10	1.76 kg/day for the 7Q10	Implicit	1.76 kg/day for the 7Q10
		$\Sigma Q_{WLA} \times 211 \text{ }\mu\text{g/L}$ for all conditions and flows	$\Sigma Q_{LA} \times 211 \text{ }\mu\text{g/L}$ for all conditions and flows		$Q_{total} \times 211 \text{ }\mu\text{g/L}$ for all conditions and flows
Total Recoverable Zinc	Acute	*Not Applicable for the 7Q10	1.60 kg/day for the 1Q10	Implicit	1.60 kg/day for the 1Q10
		$\Sigma Q_{WLA} \times 211 \text{ }\mu\text{g/L}$ for all conditions and flows	$\Sigma Q_{LA} \times 211 \text{ }\mu\text{g/L}$ for all conditions and flows		$Q_{total} \times 211 \text{ }\mu\text{g/L}$ for all conditions and flows

* Based on the Draft Interoffice Memorandum on "Estimating Water Quality Loadings from MS4 Areas" dated 12/19/02, "If the critical period is a low flow event, the load from the MS4 does not have to be quantified and a WLA for the storm water sources is not necessary..."

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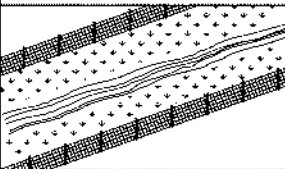

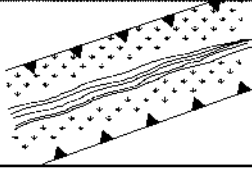

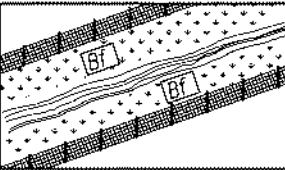

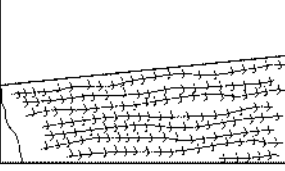



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


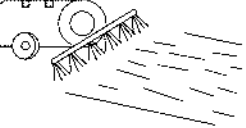



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SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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
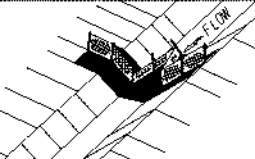

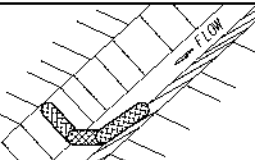

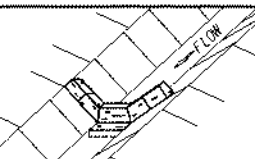

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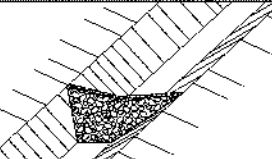

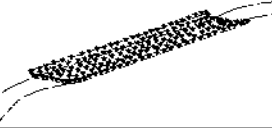


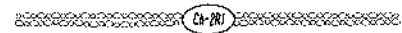

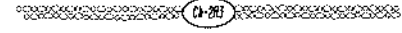
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
	LINE CODE	 ORANGE BARRIER FENCE	
ESA	ENVIRONMENTALLY 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		
Ds1	MULCH		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.
	SECTION 163	SYMBOL 	
Ds2	TEMPORARY GRASSING		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.
	SECTION 163,700	SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING		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.
	SECTION 700	SYMBOL 	
Ds4	SODDING		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.
	CONSTRUCTION DETAIL D-54 SECTION 700, 890	PATTERN 	
F1-Co	FLOCCULANTS COAGULANTS		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 IF IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
	SECTION 163,700, 895	SYMBOL  POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION		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.
	SECTION 702	PATTERN 	

- NOTE:
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
 - 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			EROSION CONTROL LEGEND		
3/2/2017			SIDEWALK IMPROVEMENTS ON DANFORTH ROAD		
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			VERIFIED:	DATE:	


CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		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.
	PATTERN 		
Tac	TACKIFIERS SECTION 163, 700, 895		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.
	SYMBOL  POLYACRYLAMIDE		
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		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.
	SYMBOL 		
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		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.
	SYMBOL 		
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		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.
	SYMBOL 		

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		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.
	SYMBOL 		
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700		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.
	LINE CODE 		
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		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.
	LINE CODE 		
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		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.
	LINE CODE 		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- 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".

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PROFESSIONAL ENGINEERING

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11/28/2018		

EROSION CONTROL LEGEND

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52-0002

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		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.
	LINE CODE		
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		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.
	LINE CODE		
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		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.
	LINE CODE		
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		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.
	LINE CODE		
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		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.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		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.
	LINE CODE		
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		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.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800		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.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		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 SDI-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.
	LINE CODE		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- 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".

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT
PROFESSIONAL ENGINEERING

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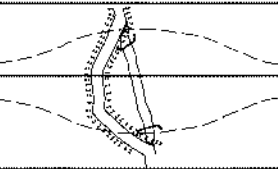
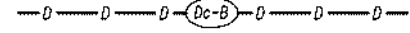
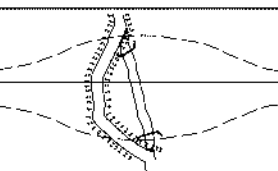

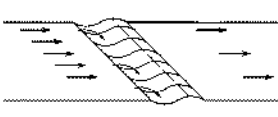
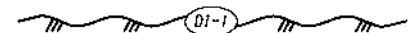

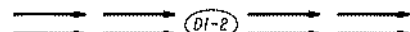
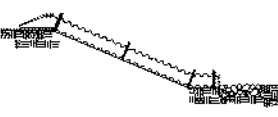
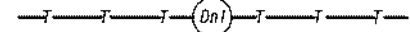
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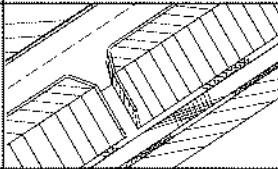
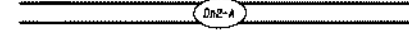
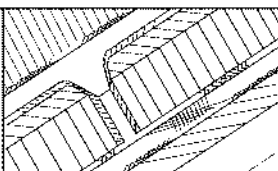

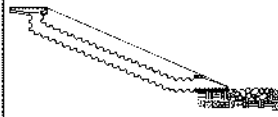

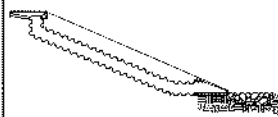
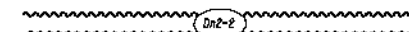
EROSION CONTROL LEGEND

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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52-0003

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY		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 Sd1-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.
	SECTION 163	LINE CODE 	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		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 Sd1-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.
	SECTION 163	LINE CODE 	THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
D1-1	DIVERSION BERM		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 'Dn1' OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	CONSTRUCTION DETAIL D-47 SECTION 205	LINE CODE 	
D1-2	DIVERSION CHANNEL		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.
	SECTION 205	LINE CODE 	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.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE		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'.
	CONSTRUCTION DETAIL D-19 SECTION 163	LINE CODE 	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		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).
	CONSTRUCTION DETAIL D-9 SECTION 441	LINE CODE 	
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE		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).
	CONSTRUCTION DETAIL D-9 SECTION 441	LINE CODE 	
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE		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).
	GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577	LINE CODE 	
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE		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).
	GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577	LINE CODE 	

NOTE:

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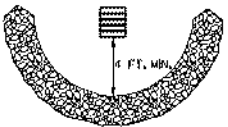





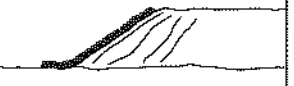

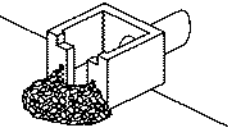

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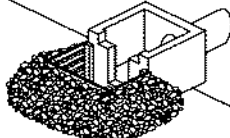




EROSION CONTROL LEGEND

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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52-0004

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		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.
		SYMBOL 	
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		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.
		SYMBOL 	
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		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.
		LINE CODE 	
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 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.
		PATTERN 	
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		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.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		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.
		SYMBOL 	
Rt-Sg1	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163	 FRONT VIEW	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		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		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:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- 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".


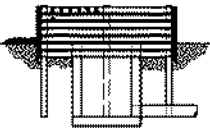

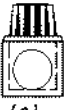



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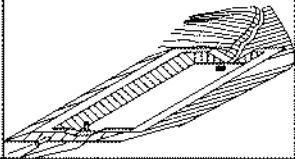
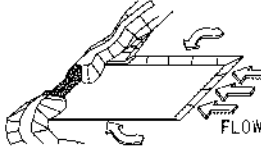
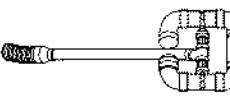
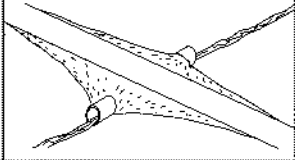
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EROSION CONTROL LEGEND

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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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	 OR  OR 	(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:

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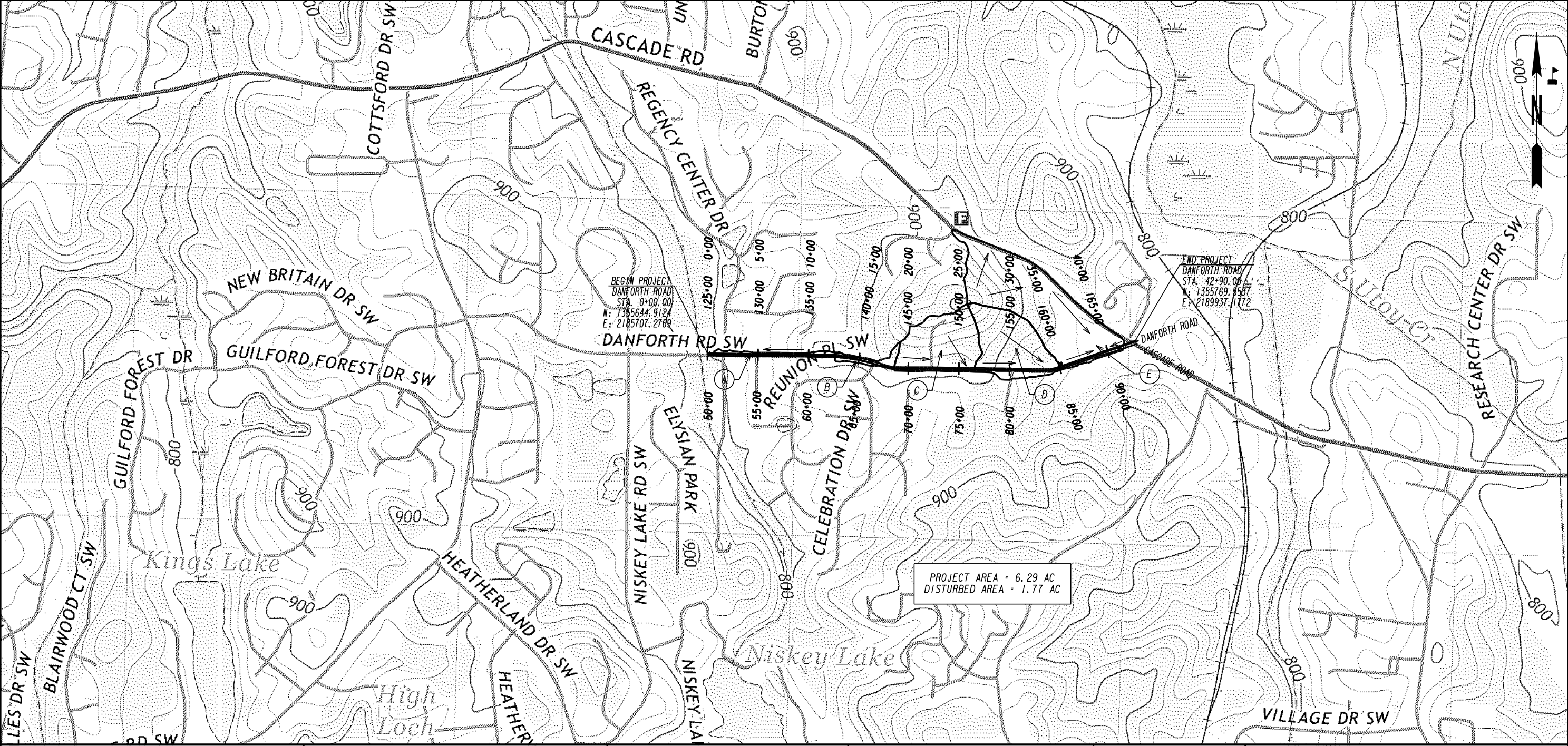
REVISION DATES				EROSION CONTROL LEGEND			
11/28/2018				SIDEWALK IMPROVEMENTS ON DANFORTH ROAD			
				CHECKED:	DATE:	DRAWING No.	
				BACKCHECKED:	DATE:	52-0006	
				CORRECTED:	DATE:		
				VERIFIED:	DATE:		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
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REVISION DATES			EROSION CONTROL LEGEND				
3/2/2017							
			SIDEWALK IMPROVEMENTS ON DANFORTH ROAD				
			CHECKED:		DATE:		DRAWING No. 52-0007
			BACKCHECKED:		DATE:		
			CORRECTED:		DATE:		
			VERIFIED:		DATE:		

Outfall Summary Table																
Outfall	Station and Offset	Drainage Area (Acres)	Disturbed Area (Acres)	Structure	Outfall Slope (ft/ft)	Receiving Waters	C pre	C post	Q50pre (cfs)	Q50post (cfs)	Q100pre (cfs)	Q100post (cfs)	V50pre (ft/s)	V50post (ft/s)	V100pre (ft/s)	V100post (ft/s)
A	0+49.21, 19' LT	0.848	0.260	Existing 18" RCP	0.0265	Tributary to Utoy Creek	0.85	0.81	3.24	6.83	3.60	7.66	4.11	5.47	4.26	5.76
B	15+11.56, 10' LT	1.142	0.212	18" RCP	0.0144	Tributary to Utoy Creek	0.64	0.69	7.54	8.11	8.40	9.05	9.64	5.91	10.72	6.24
C	75+25.38, 27' RT	9.348	0.451	Existing 36" RCP	0.0112	Tributary to Utoy Creek	0.42	0.43	21.03	22.02	23.97	24.71	6.15	6.23	6.45	6.52
D	85+43.59, 17' RT	9.900	0.521	Existing 18" CMP	0.0099	Tributary to Utoy Creek	0.24	0.30	10.64	14.94	11.91	16.73	6.78	8.67	7.26	9.60
E	91+53.84, 25' RT	20.336	0.170	Existing 30' RCP	0.0043	Tributary to Utoy Creek	0.37	0.36	27.89	25.80	31.30	28.97	7.53	7.26	7.95	7.66
Sheet Flow	N/A	0.147	0.147	N/A	N/A	Tributary to Utoy Creek	0.36	0.42	0.56	0.65	0.62	0.73	N/A	N/A	N/A	N/A
	N/A	0.010	0.010	N/A	N/A	Tributary to Utoy Creek	0.41	0.43	0.04	0.05	0.05	0.05	N/A	N/A	N/A	N/A



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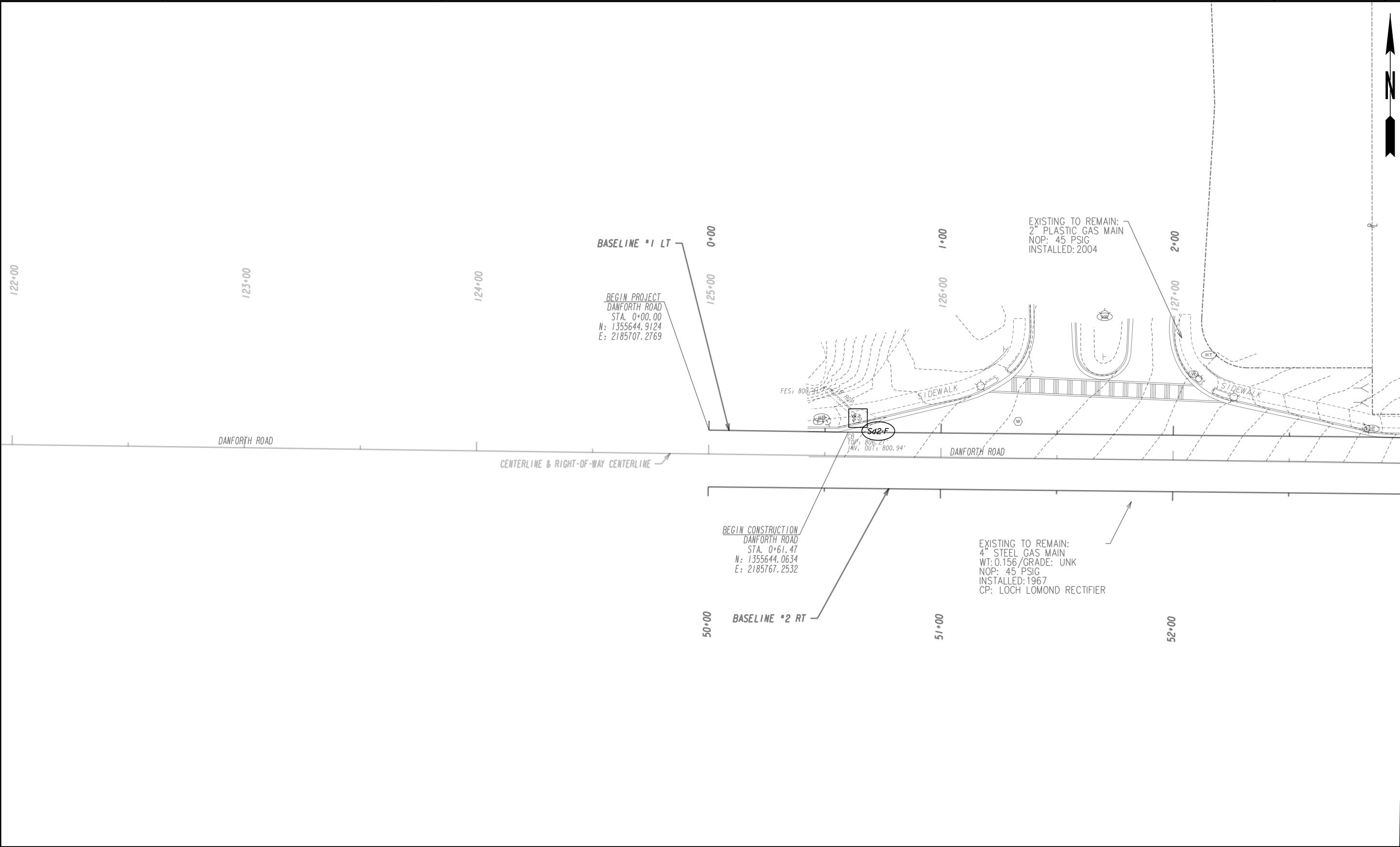
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REVISION DATES		

EROSION CONTROL DRAINAGE AREA MAP		
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	53-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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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BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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Louisville, KY 40223
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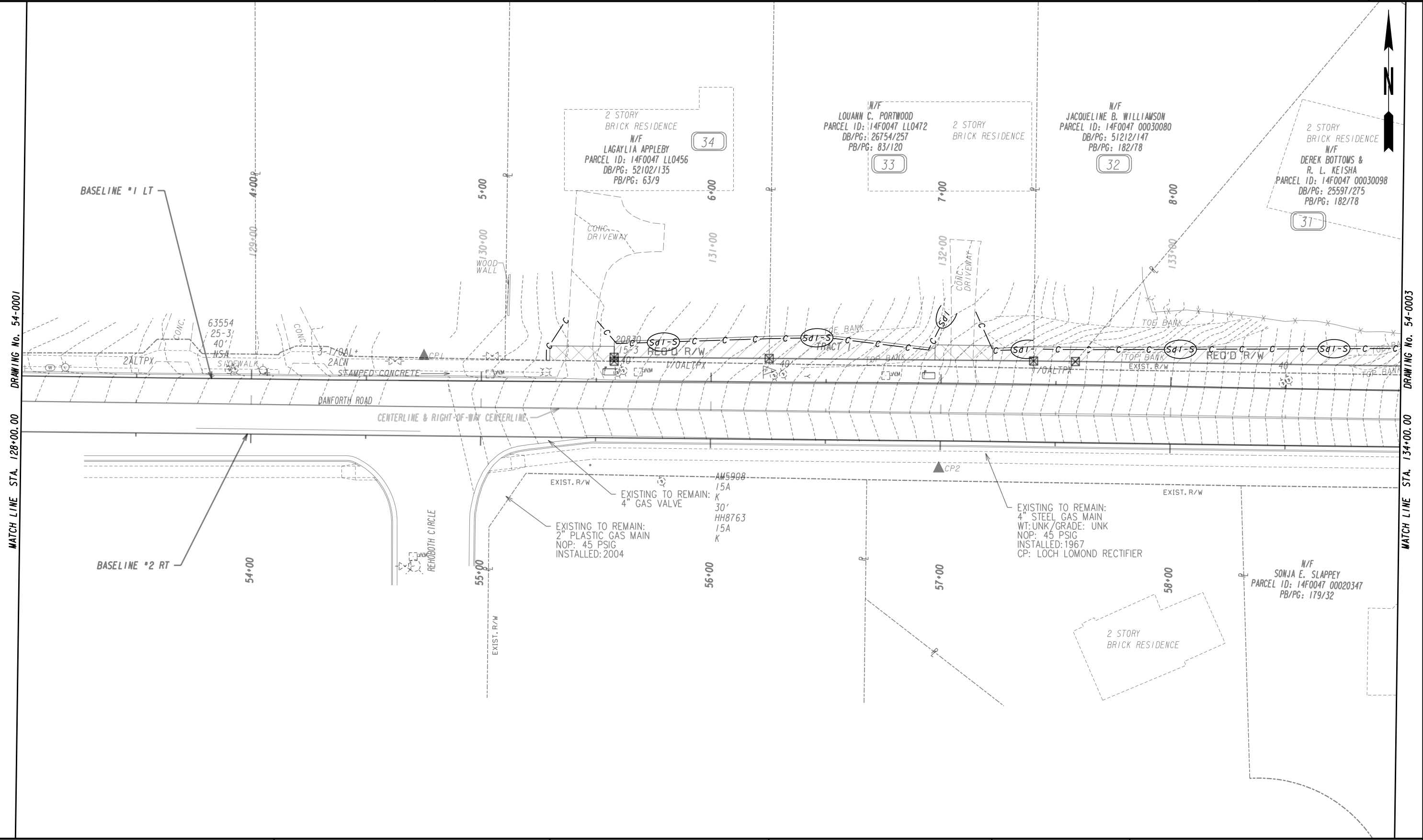
BMP LOCATION DETAILS
STAGE 1A

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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10/23/2015

GPLN



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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REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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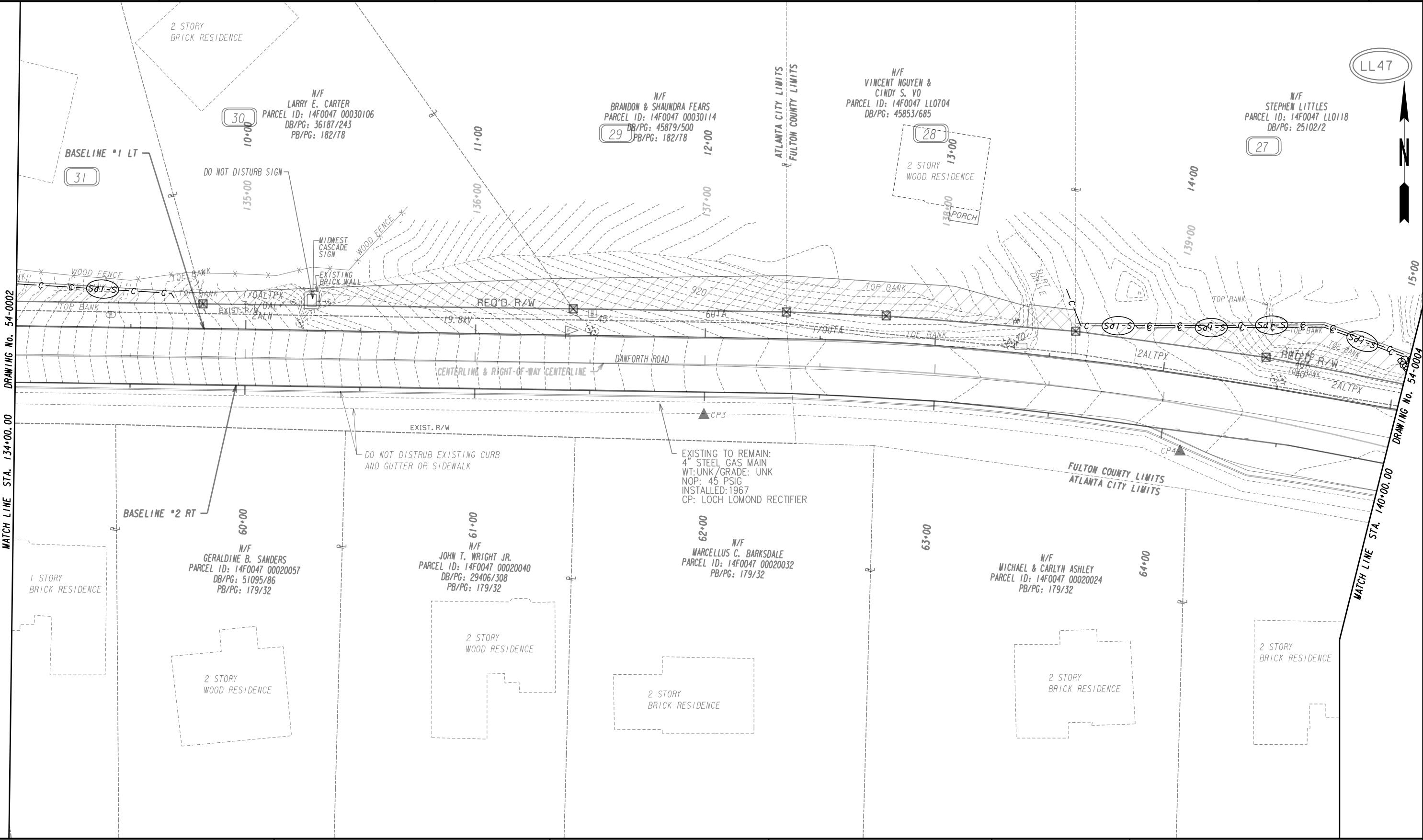
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BMP LOCATION DETAILS
STAGE 1A

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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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

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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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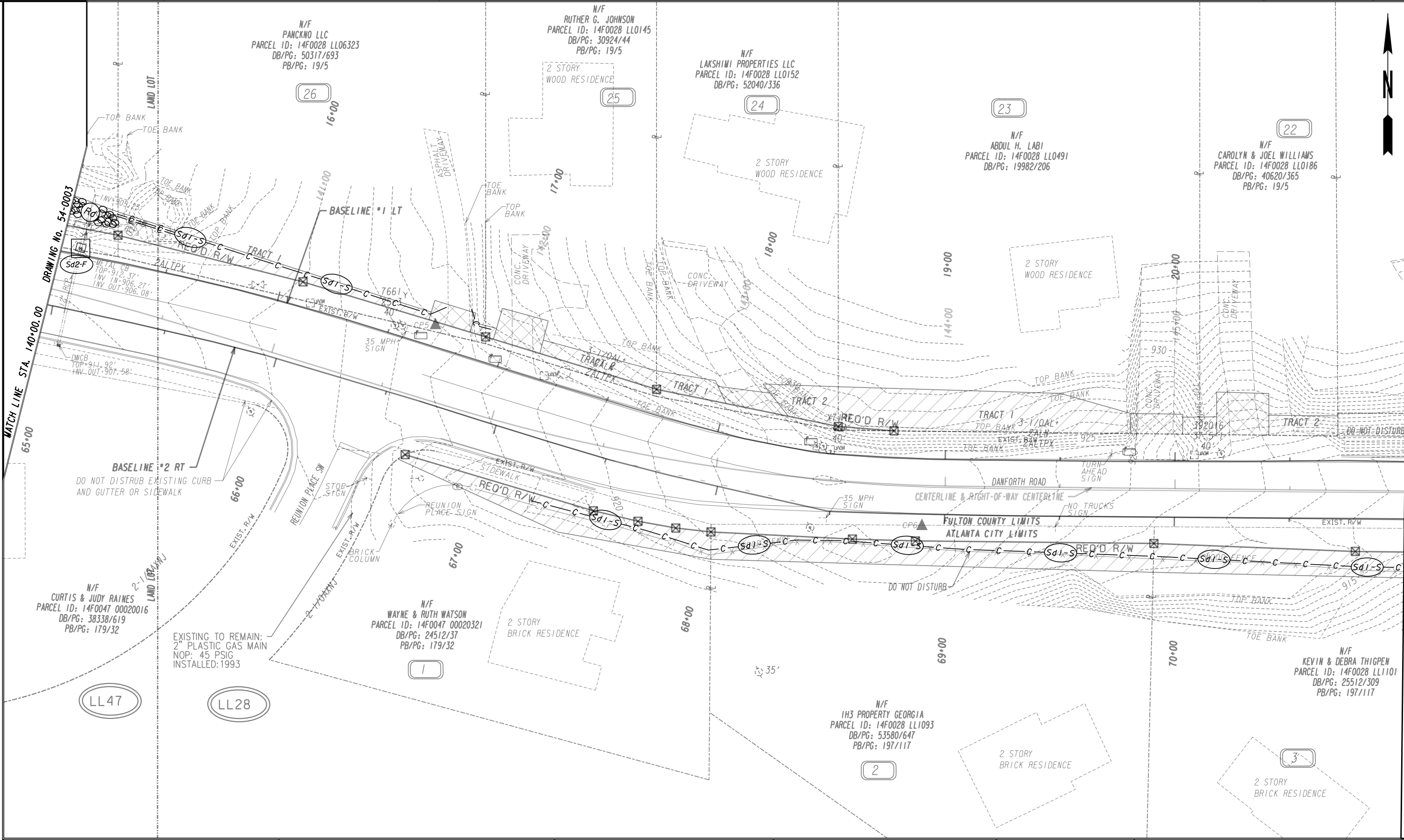
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REVISION DATES	

**BMP LOCATION DETAILS
STAGE 1A**

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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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

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REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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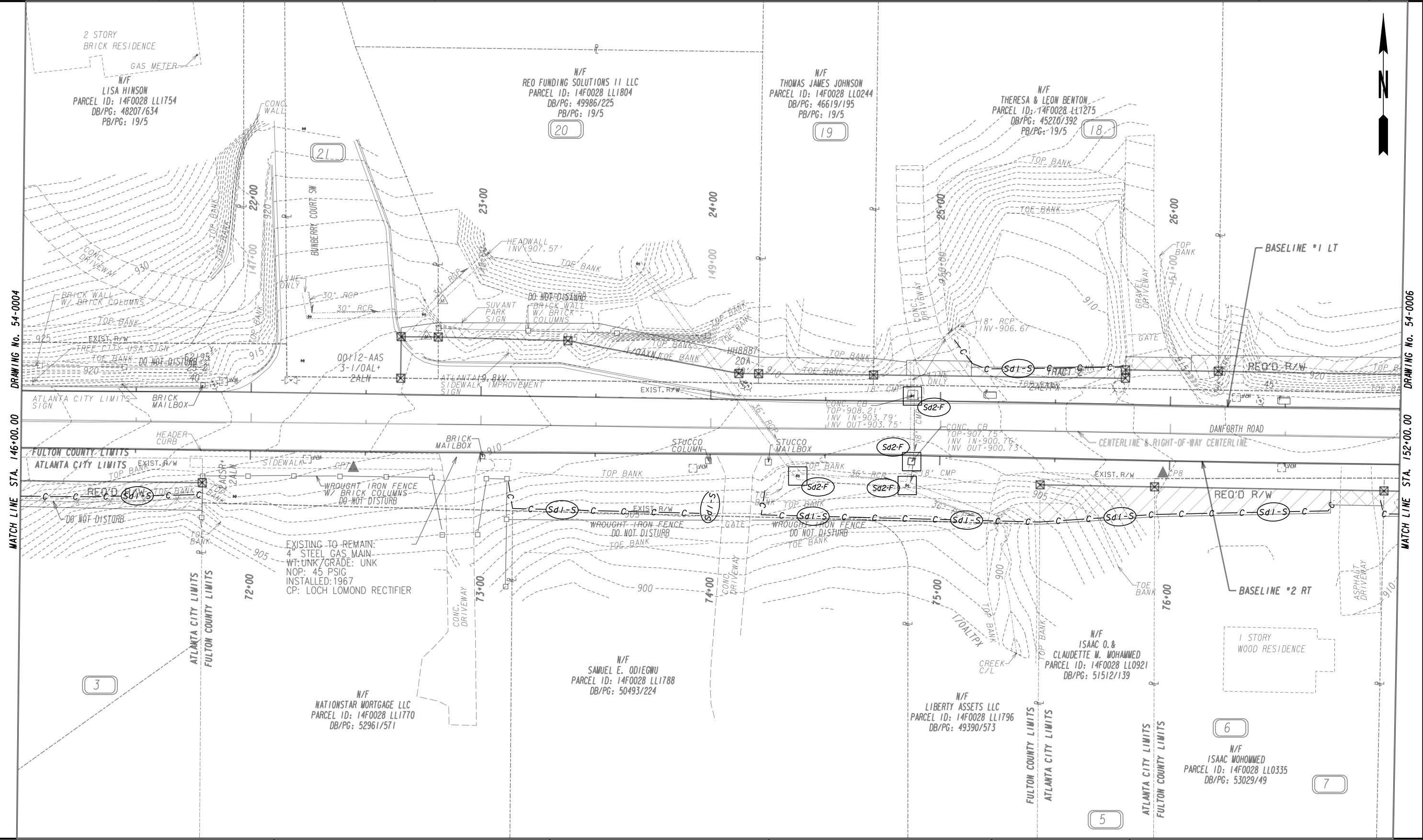
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**BMP LOCATION DETAILS
STAGE 1A**

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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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

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REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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REVISION DATES

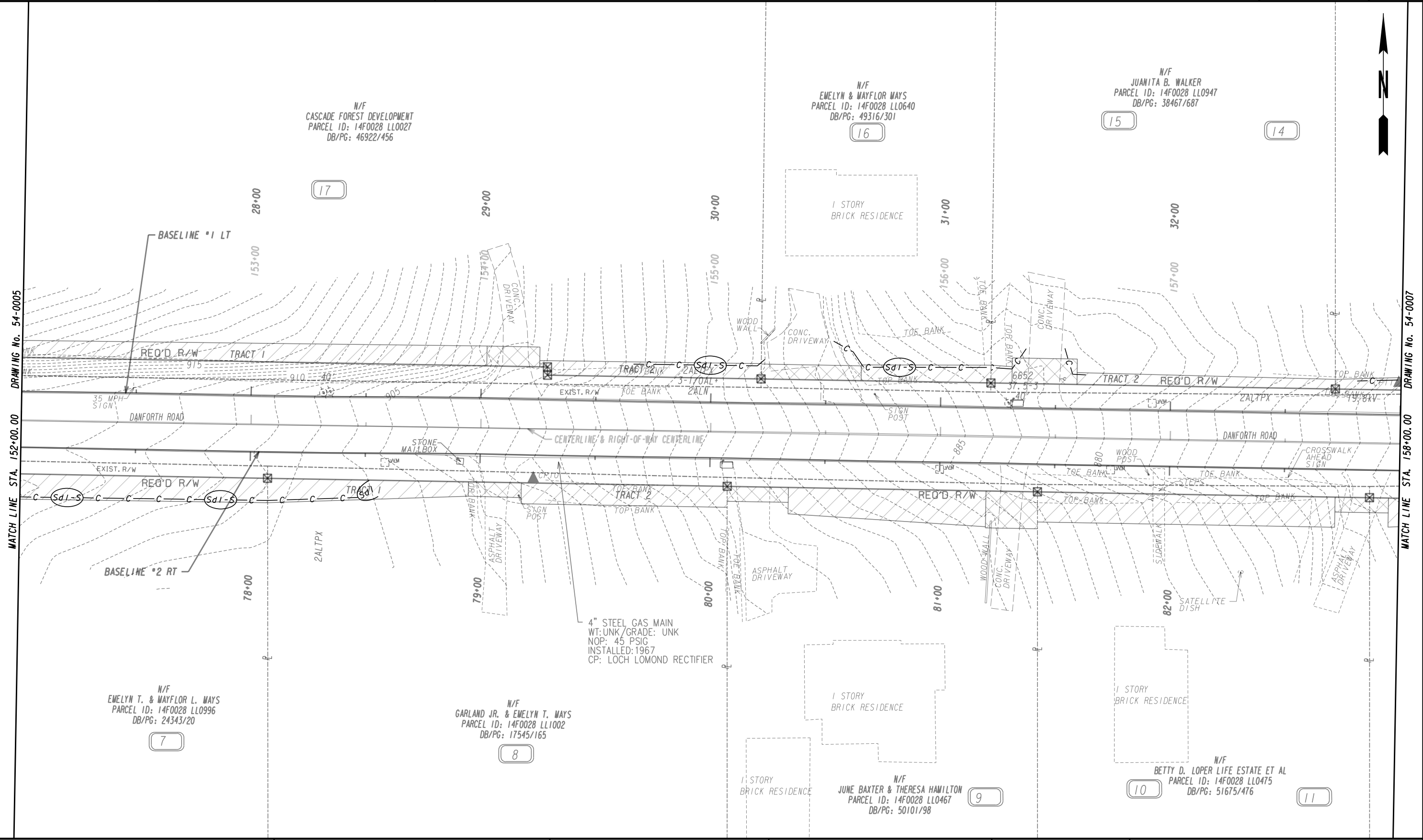
BMP LOCATION DETAILS
STAGE 1A

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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10/23/2015

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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

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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
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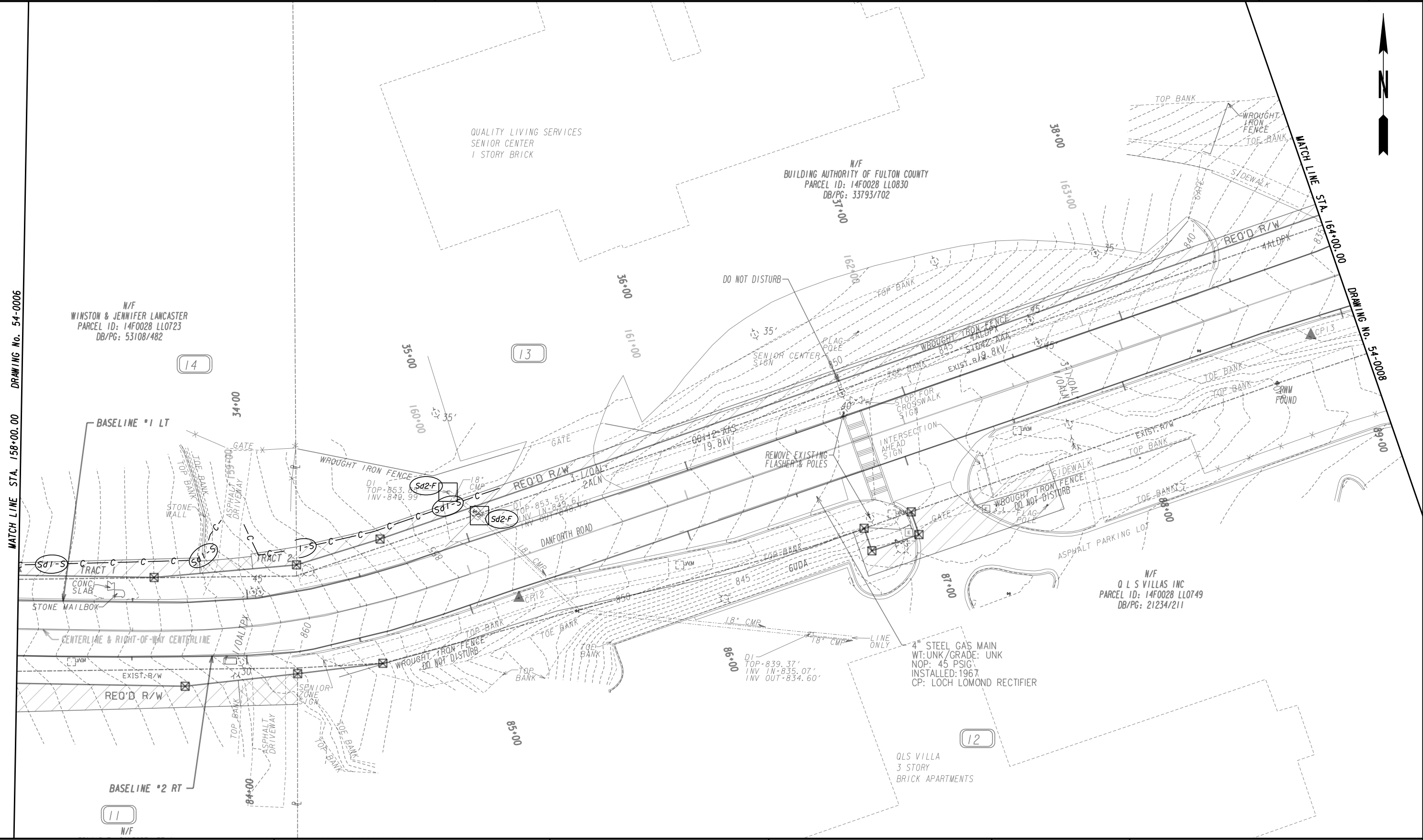
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REVISION DATES	

**BMP LOCATION DETAILS
STAGE 1A**

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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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

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REQ'D LIMIT OF ACCESS

REQ'D LIMIT OF ACCESS & R/W

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA

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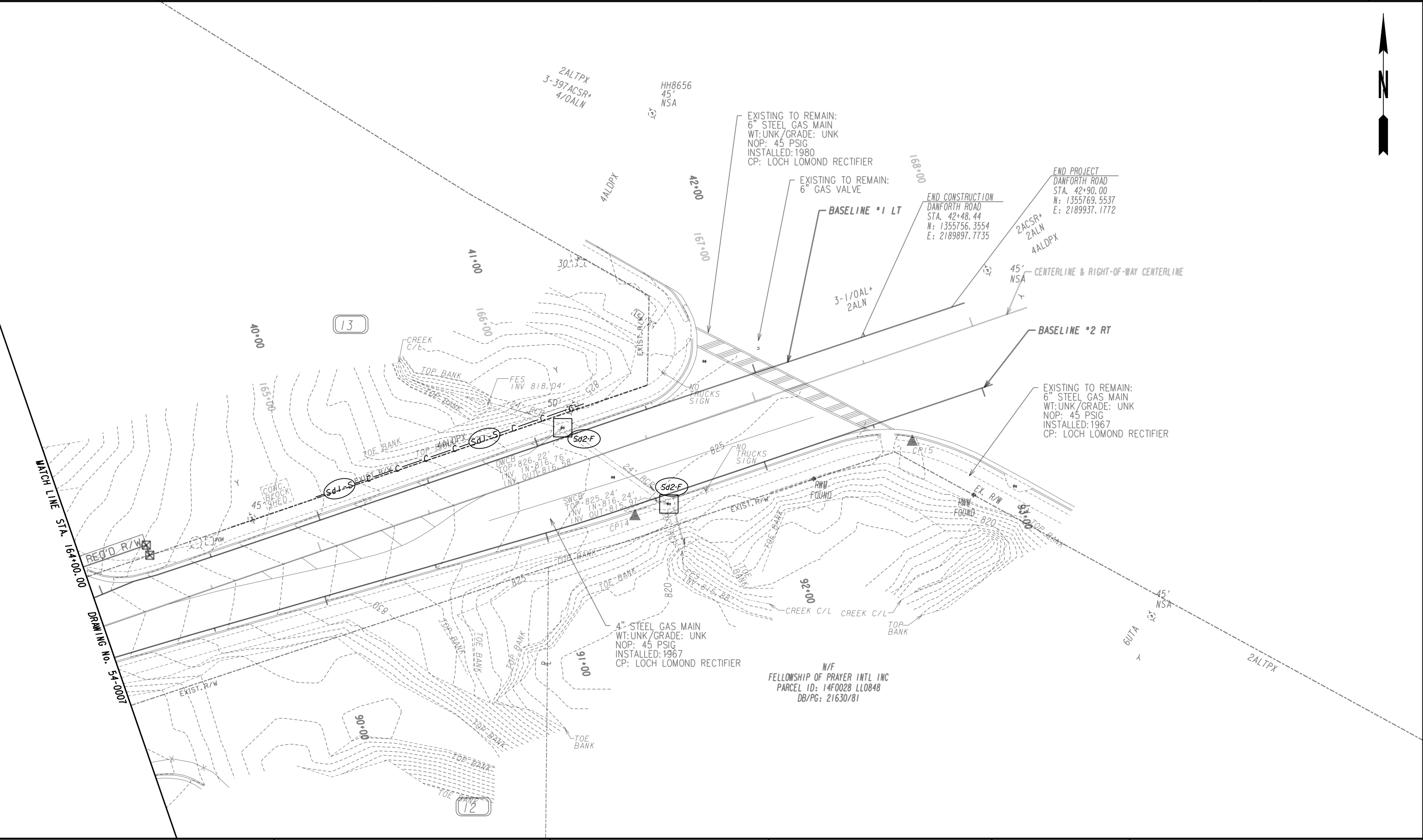
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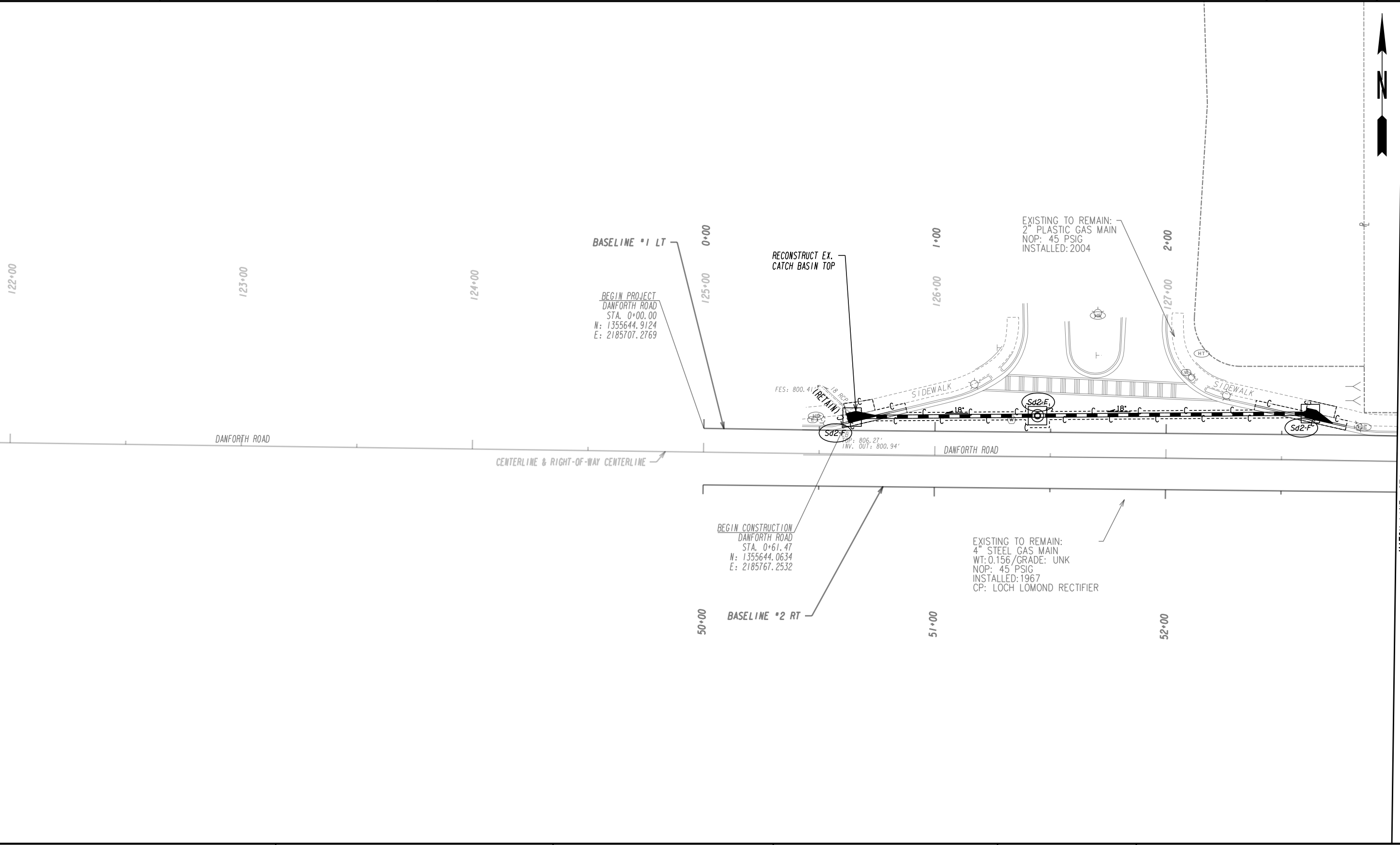
BMP LOCATION DETAILS

STAGE 1A

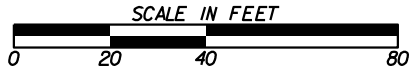
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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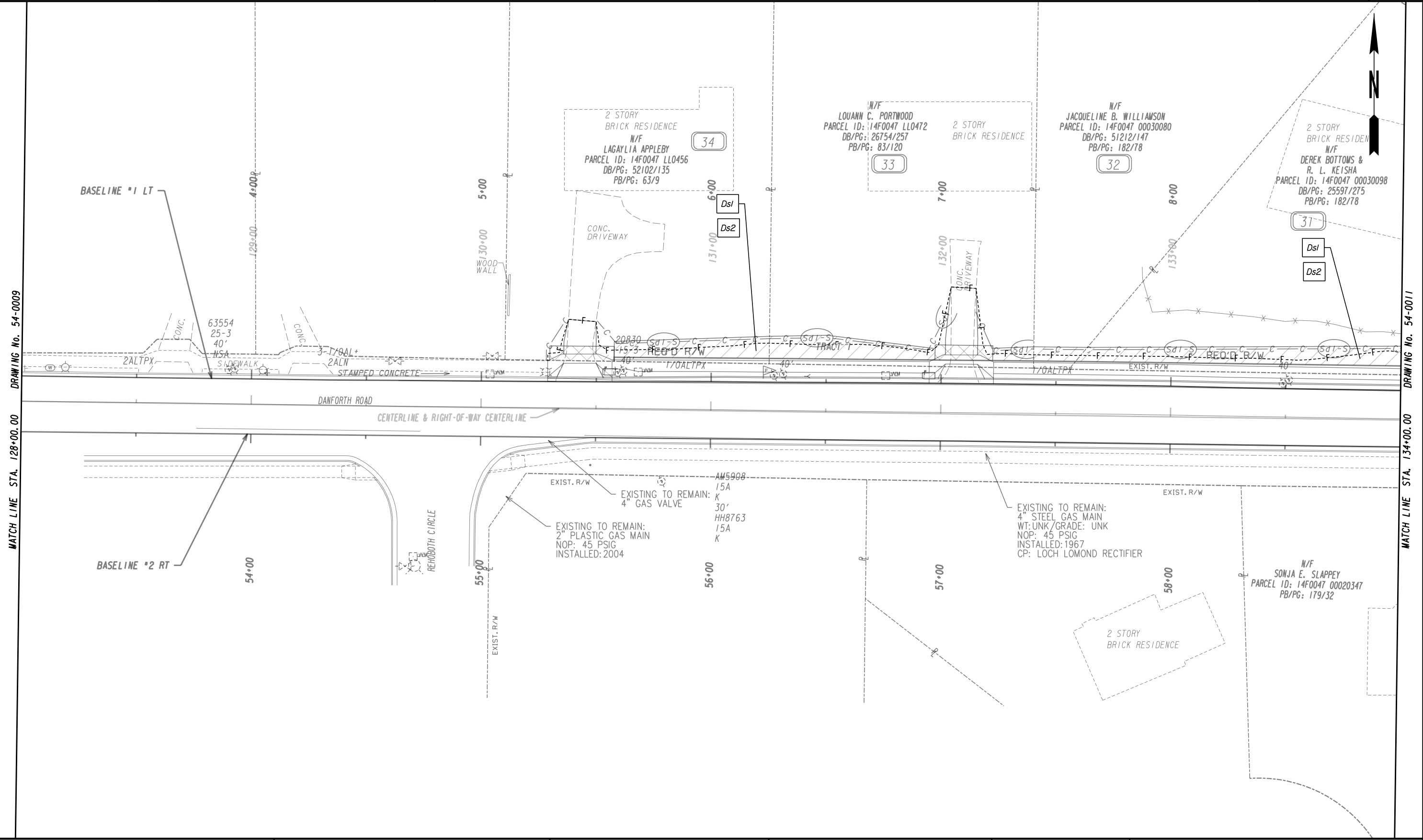


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REVISION DATES		

BMP LOCATION DETAILS STAGE I			
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD			
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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

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BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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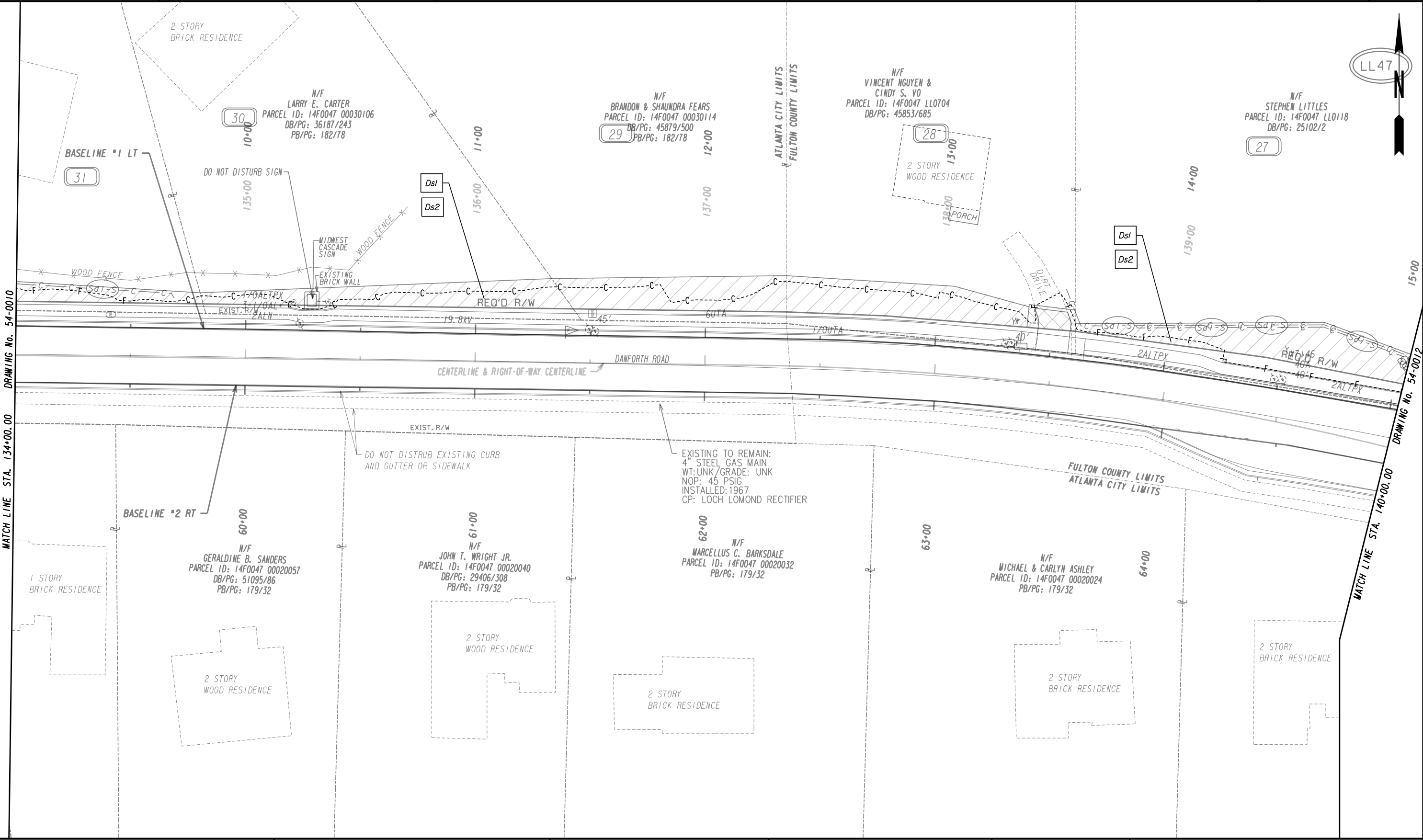
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REVISION DATES	

**BMP LOCATION DETAILS
STAGE I**

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No. 54-0010
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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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REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:

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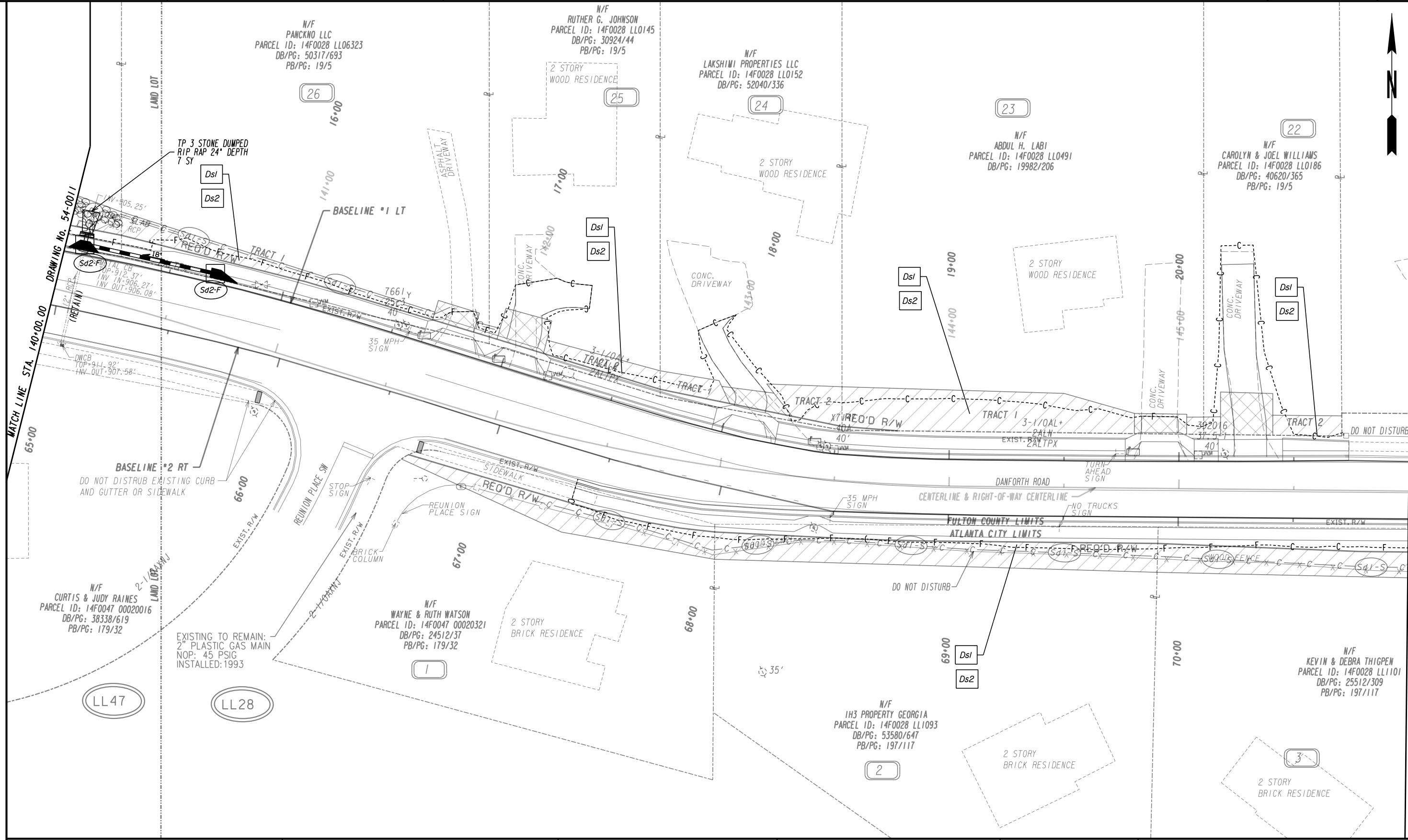
SCALE IN FEET

REVISION DATES

BMP LOCATION DETAILS
STAGE I

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:		DATE:		DRAWING No. 54-0011
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



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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-----C-----F-----

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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0 20 40 80

REVISION DATES

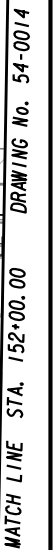
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BMP LOCATION DETAILS
STAGE I

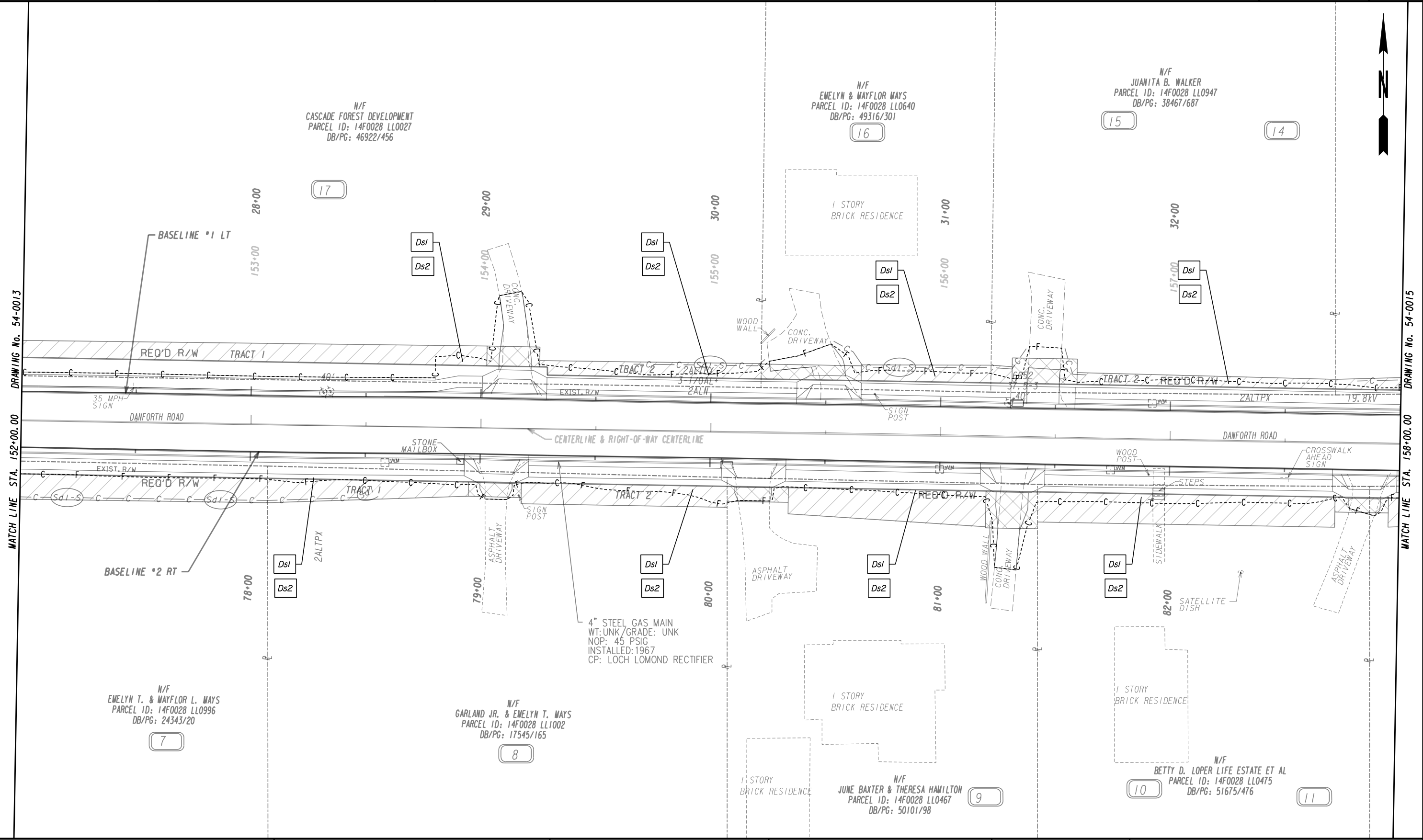
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING NO.
BACKCHECKED:	DATE:	54-0012
CORRECTED:	DATE:	
VERIFIED:	DATE:	

10/23/2015 GPLN



CHECKED:	DATE:	DRAWING No. 54-0013
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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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BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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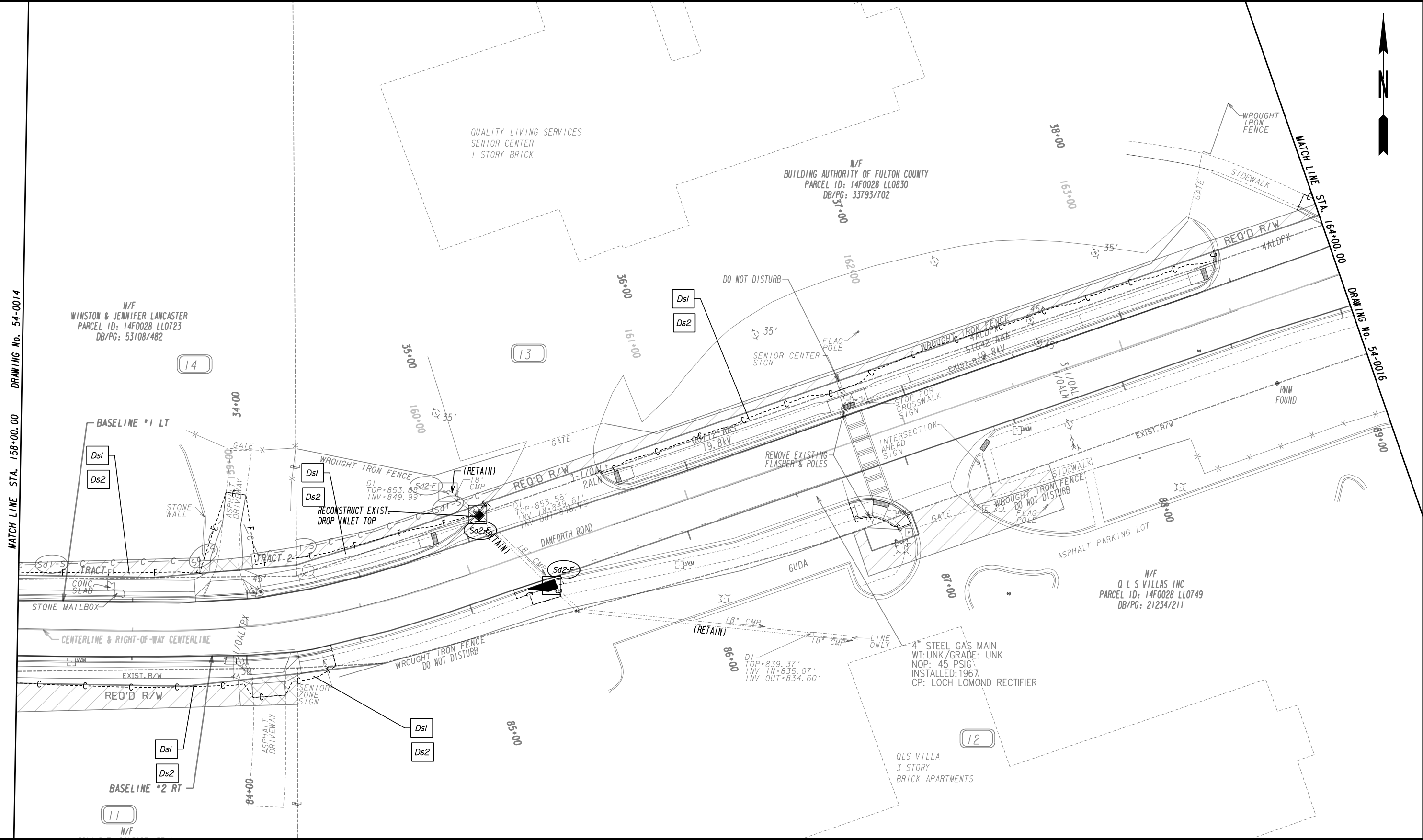
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REVISION DATES

BMP LOCATION DETAILS
STAGE I

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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



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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BEGIN LIMIT OF ACCESS.....BLA

END LIMIT OF ACCESS.....ELA

REQ'D LIMIT OF ACCESS

REQ'D LIMIT OF ACCESS & R/W

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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SCALE IN FEET

0 20 40 80

REVISION DATES

BMP LOCATION DETAILS
STAGE I

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED: DATE:

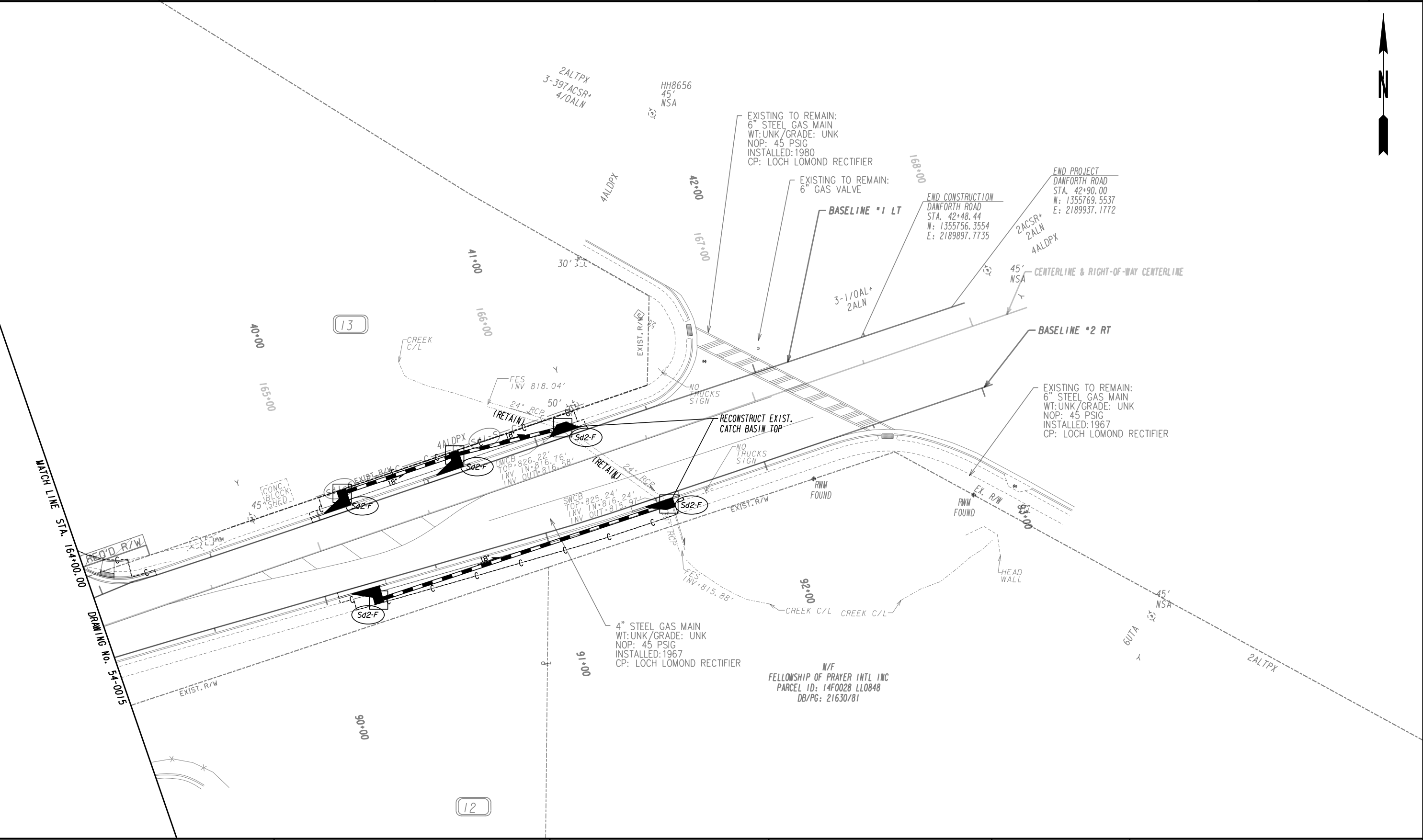
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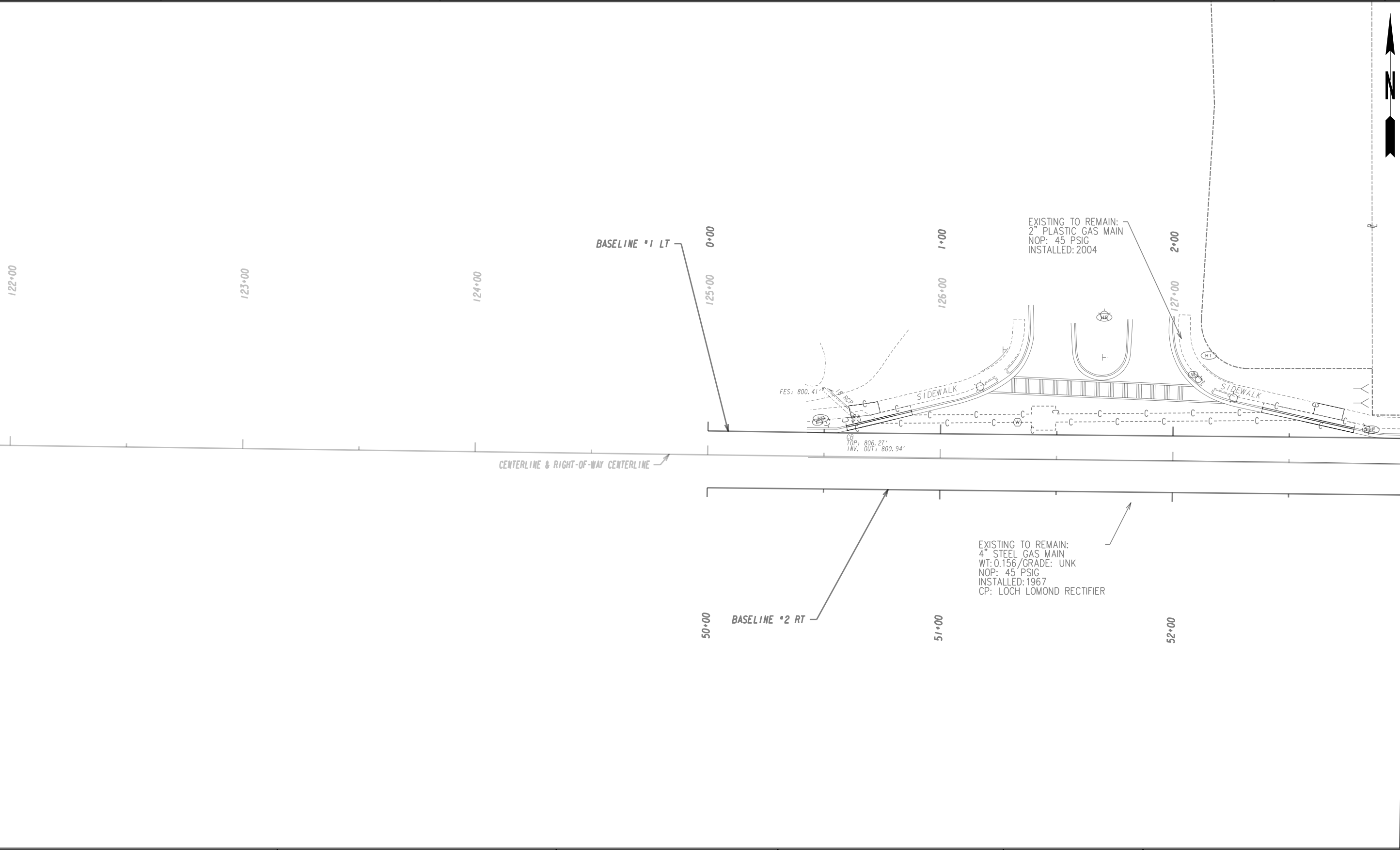
CORRECTED: DATE:

VERIFIED: DATE:

DRAWING No.
54-0015

10/23/2015 GPLN





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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BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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0 20 40 80

REVISION DATES

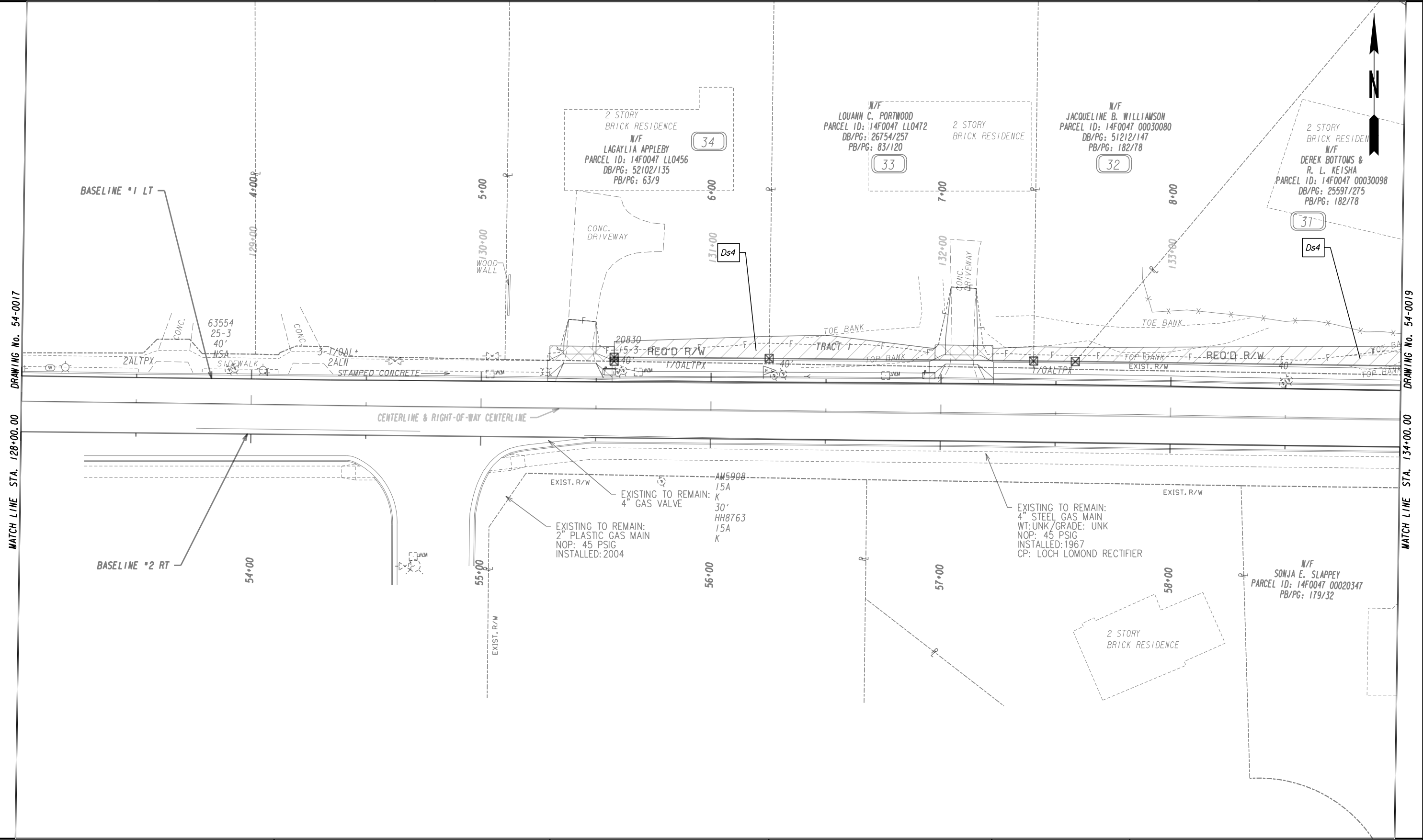
NO.	DATE	DESCRIPTION

BMP LOCATION DETAILS
STAGE 2
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0017
CORRECTED:	DATE:	
VERIFIED:	DATE:	

10/23/2015

GPLN



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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BEGIN LIMIT OF ACCESS.....BLA
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REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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SCALE IN FEET
0 20 40 80

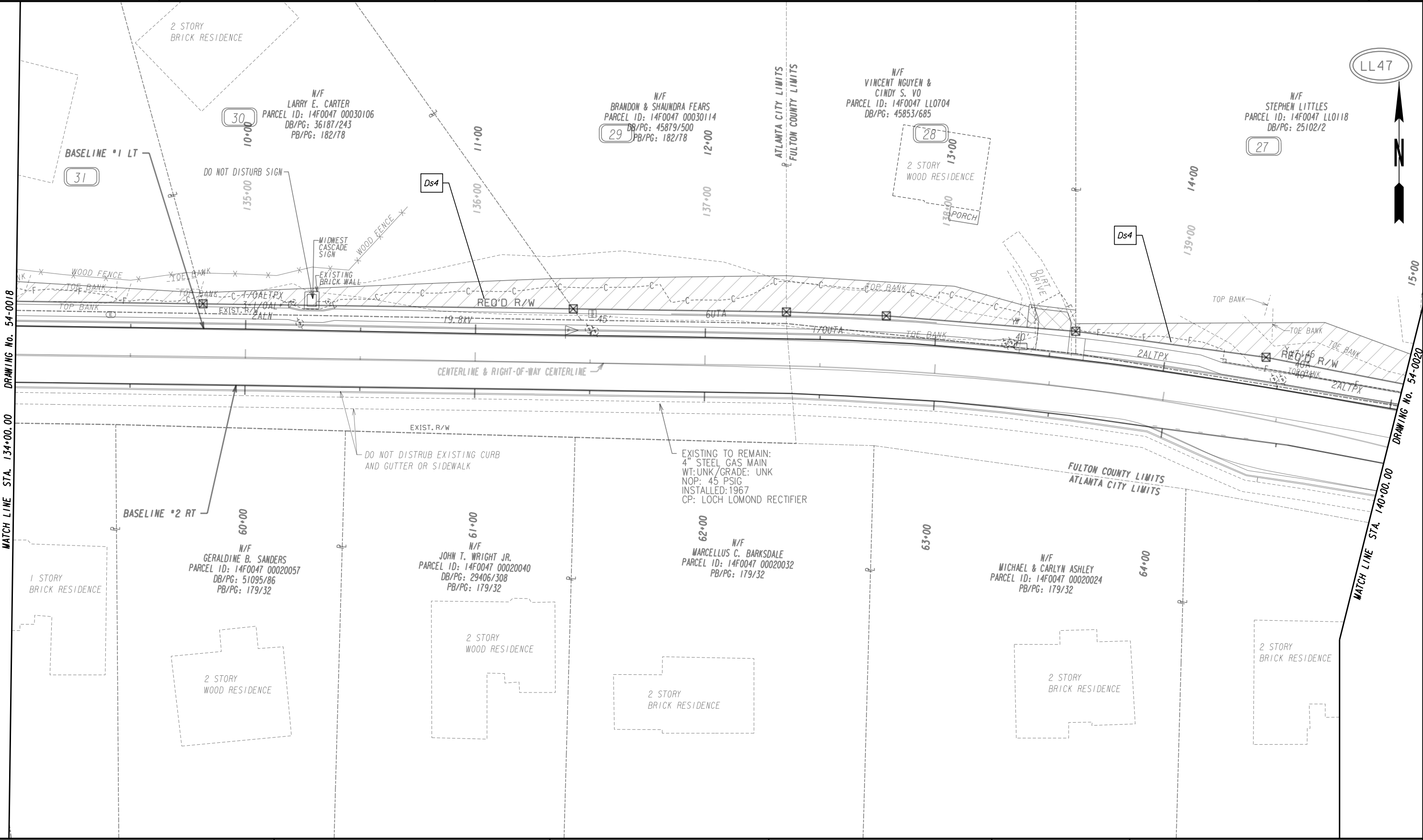
REVISION DATES

BMP LOCATION DETAILS
STAGE 2
SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0018
CORRECTED:	DATE:	
VERIFIED:	DATE:	

10/23/2015

GPLN



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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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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SCALE IN FEET

0 20 40 80

REVISION DATES

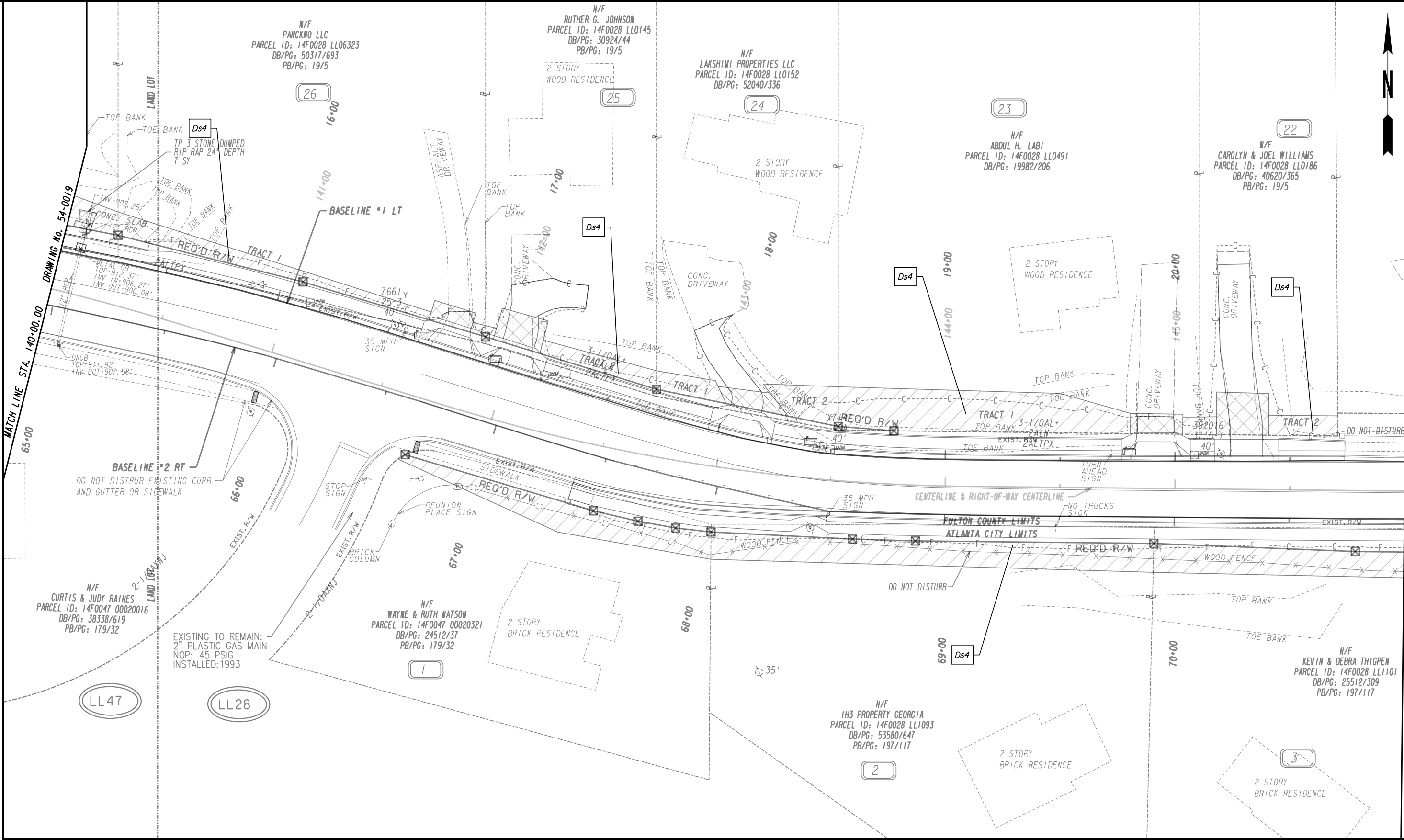
BMP LOCATION DETAILS
STAGE 2

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0019
CORRECTED:	DATE:	
VERIFIED:	DATE:	

10/23/2015

GPLN



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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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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SCALE IN FEET

0 20 40 60 80

REVISION DATES

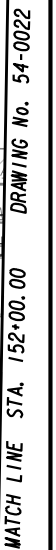
BMP LOCATION DETAILS
STAGE 2

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

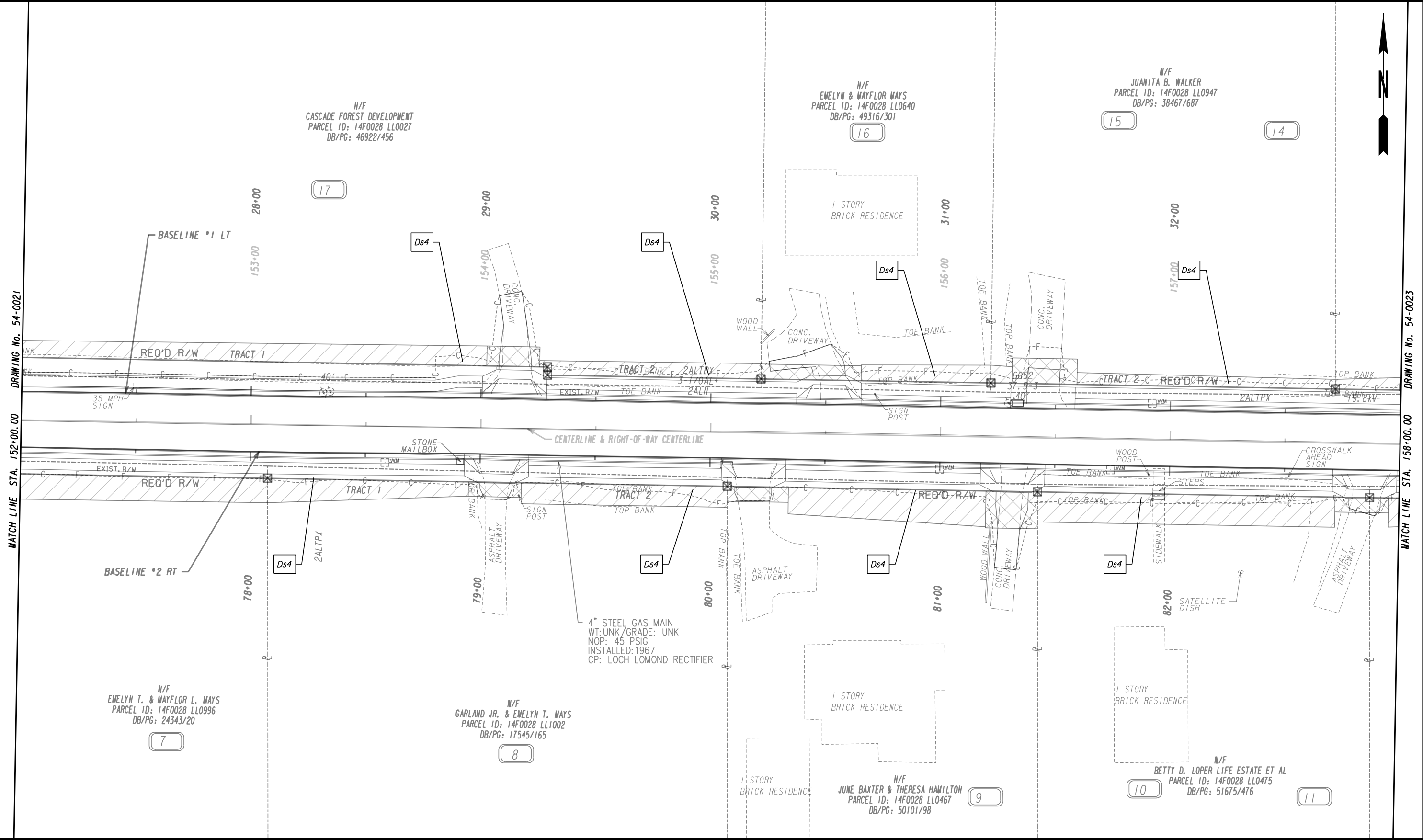
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BACKCHECKED:	DATE:	54-0020
CORRECTED:	DATE:	
VERIFIED:	DATE:	

10/23/2015

GPLN



CHECKED:	DATE:	DRAWING No. 54-0021
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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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END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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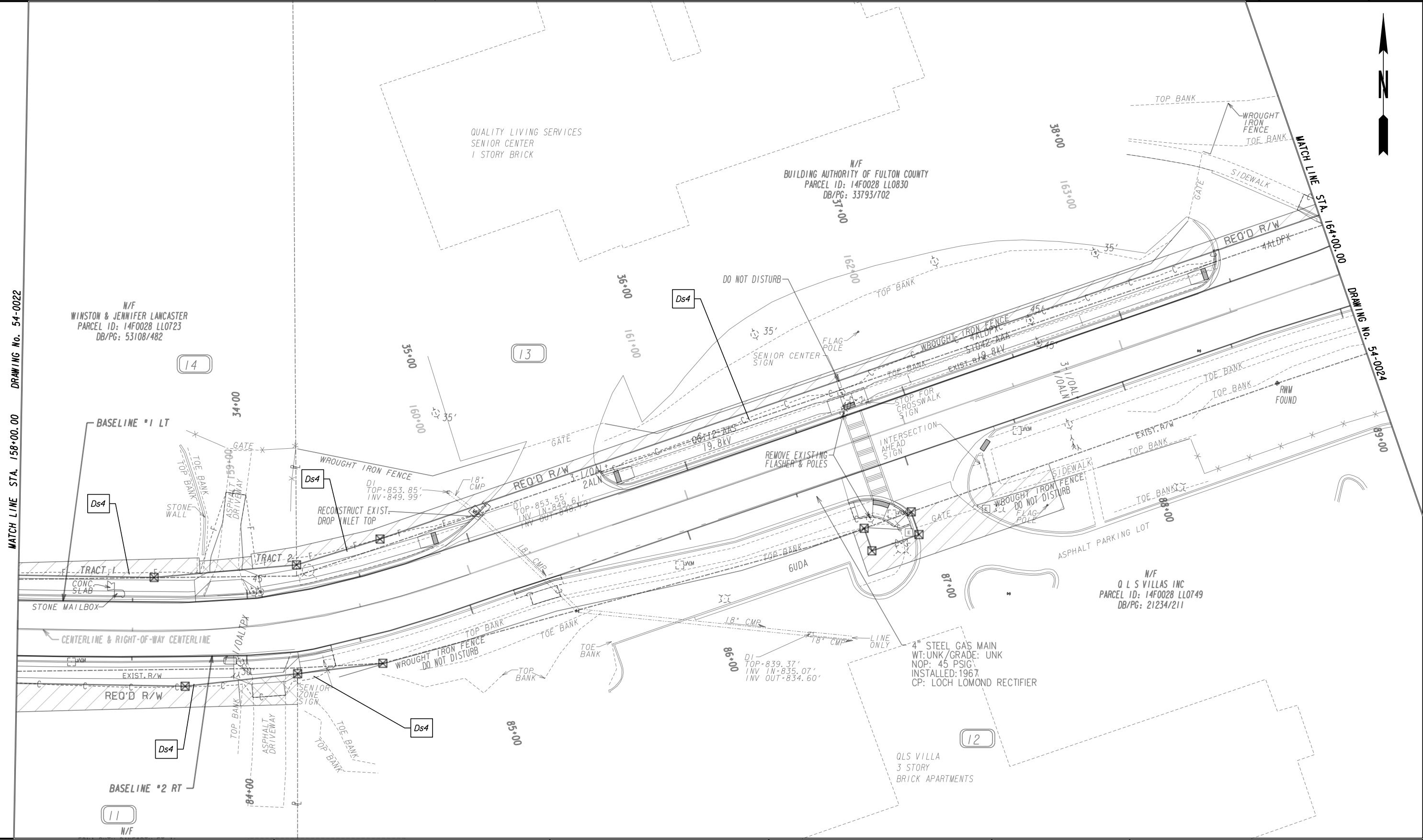
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REVISION DATES	

BMP LOCATION DETAILS
STAGE 2

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:		DATE:		DRAWING No. 54-0022
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



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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BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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SCALE IN FEET

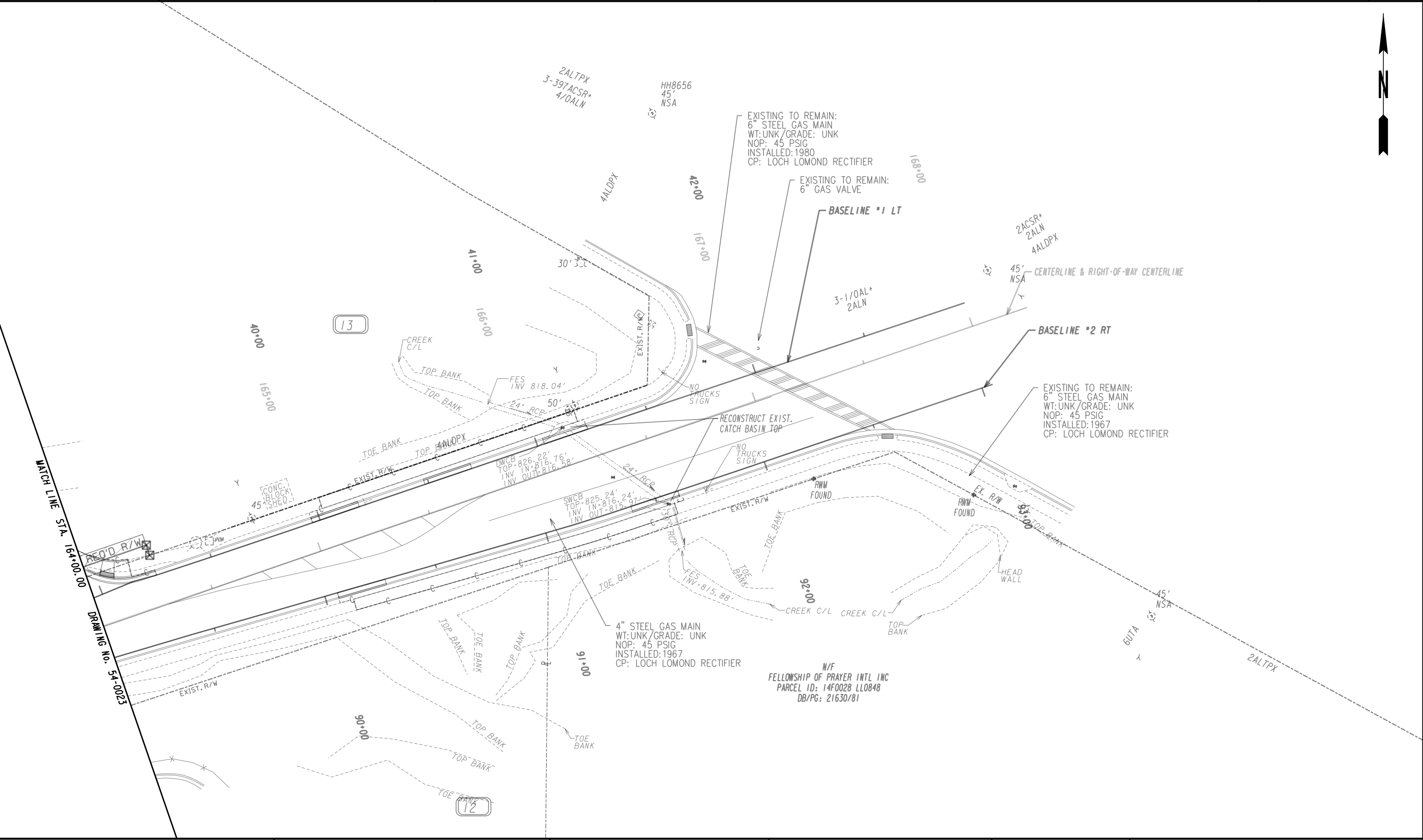
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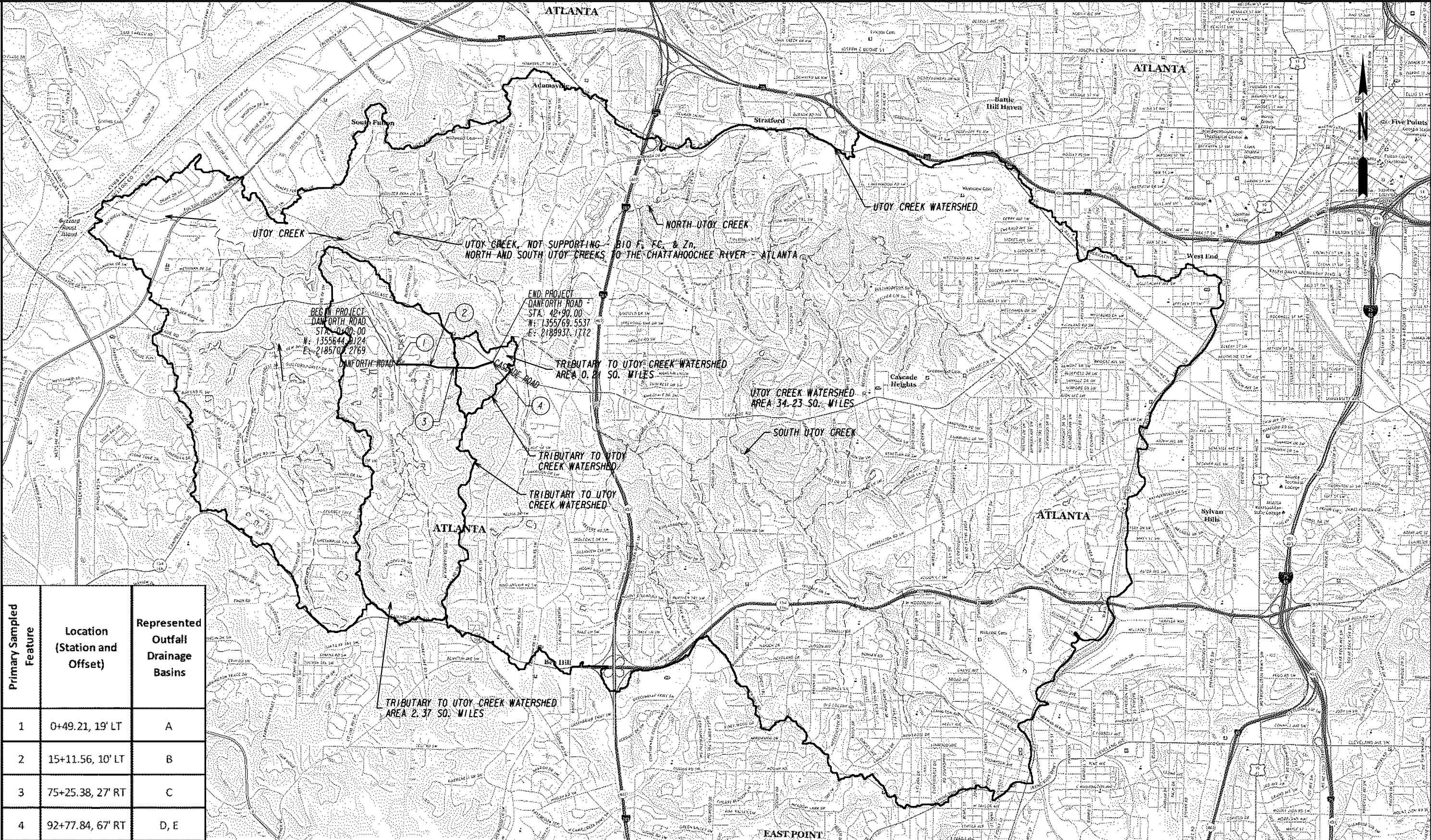
REVISION DATES	

**BMP LOCATION DETAILS
STAGE 2**

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:		DATE:		DRAWING No. 54-0023
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		





Primary Sampled Feature	Location (Station and Offset)	Represented Outfall Drainage Basins
1	0+49.21, 19' LT	A
2	15+11.56, 10' LT	B
3	75+25.38, 27' RT	C
4	92+77.84, 67' RT	D, E

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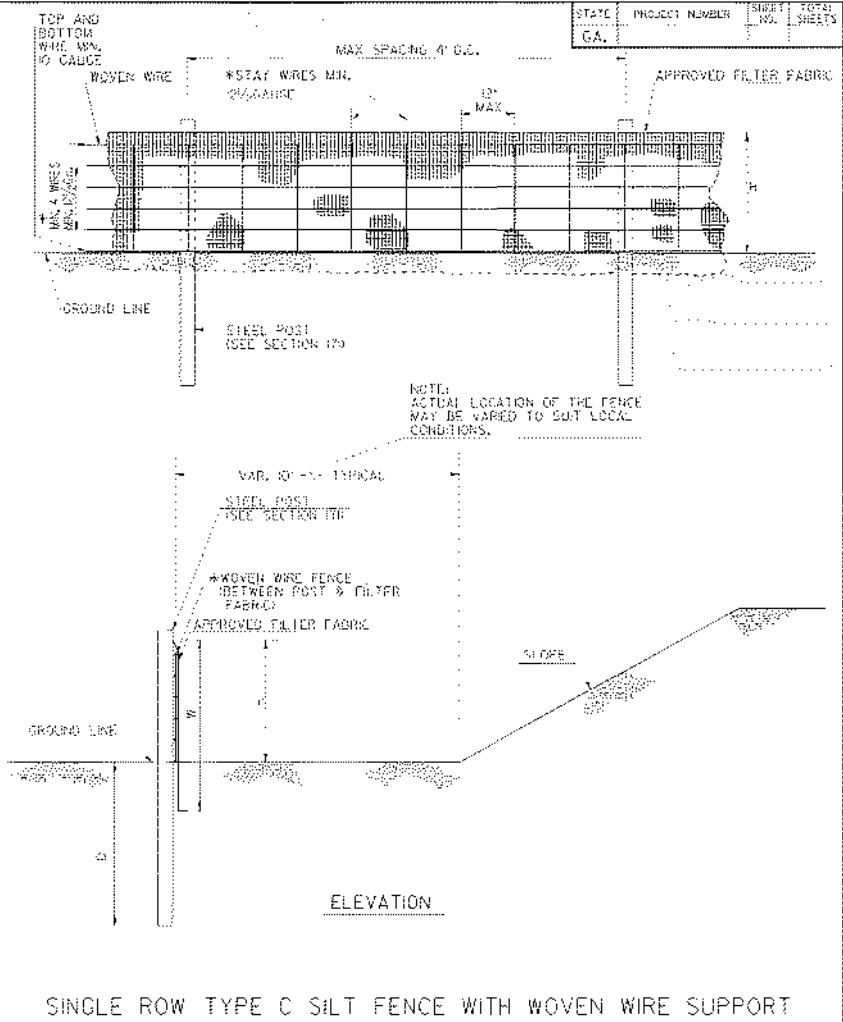
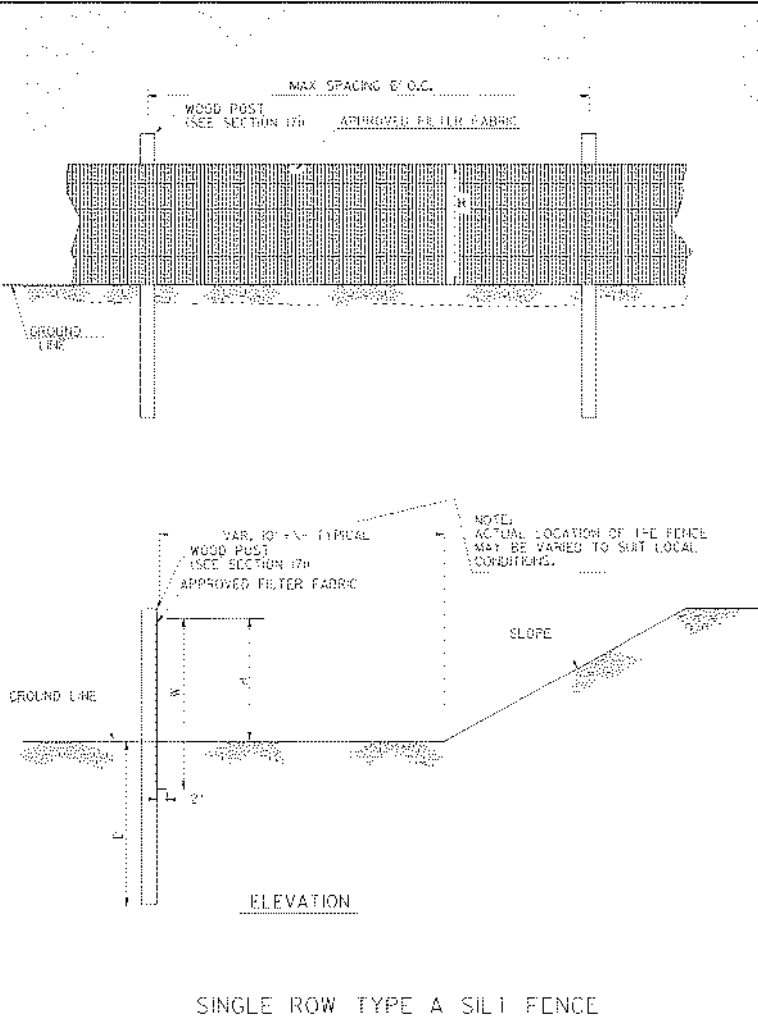
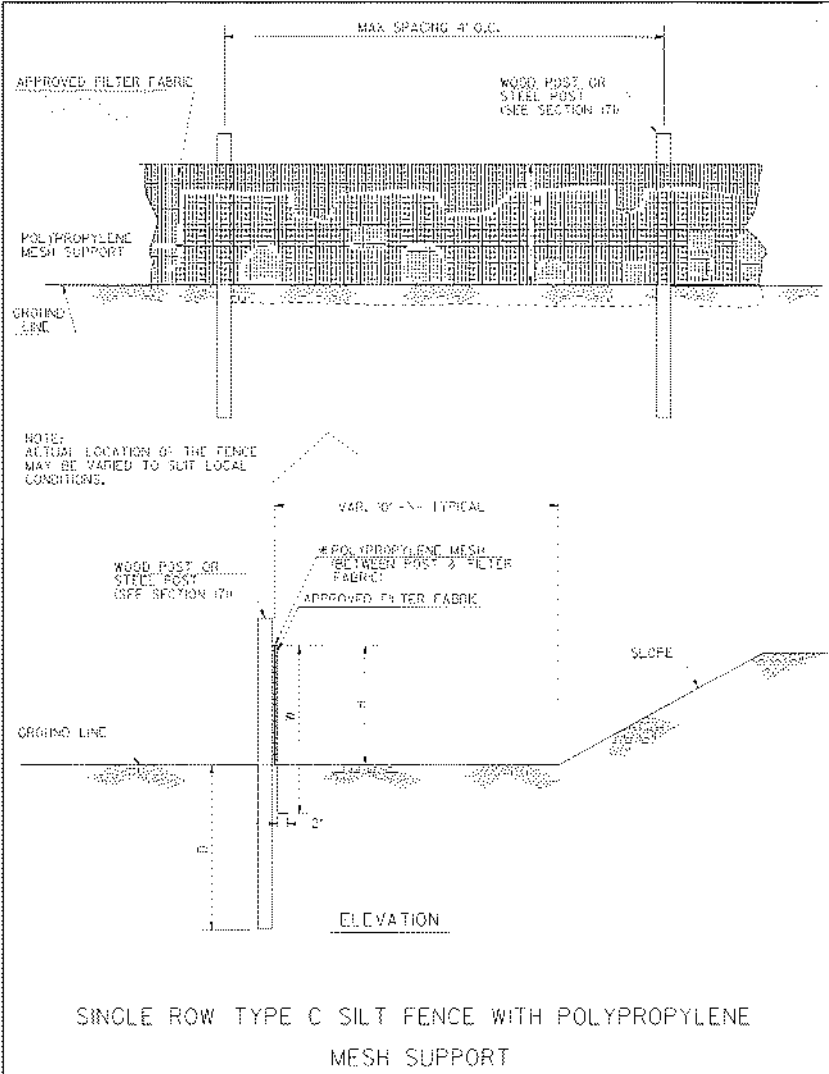


REVISION DATES

WATERSHED MAP SITE MONITORING PLAN

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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



FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2' 4"	1.5"	2'-0"	
TYPE "C"	4 FT.	2' 4"	1' 0"	2' 0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24B.

NOTES:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 3/4 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 1/2 INCH LONG, WITH BOTTOM HEADS AT LEAST 3/4 INCHES WIDE.
2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
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 12 1/2 GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION 17 FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE GPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS	
		TEMPORARY SILT FENCE	
NO SCALE		REV. AND REDRAWN JAN. 201	
AS		NUMBER D-24A (SHEET 1 OF 4)	

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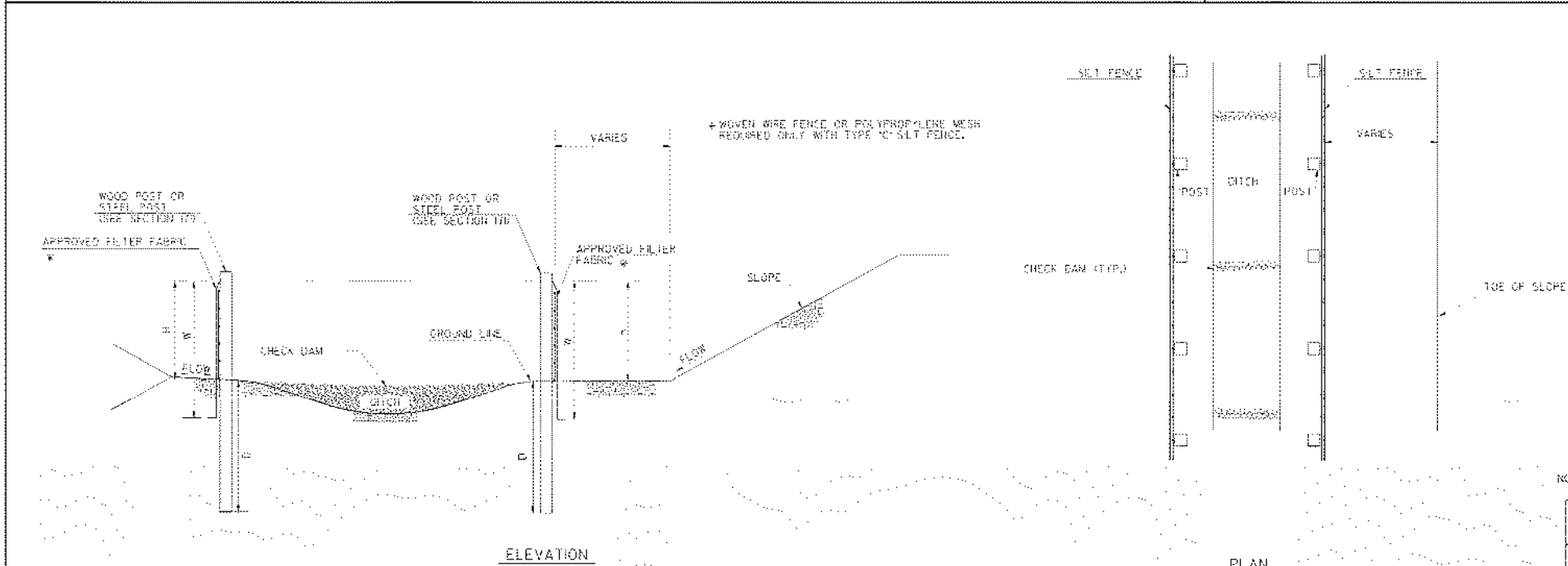
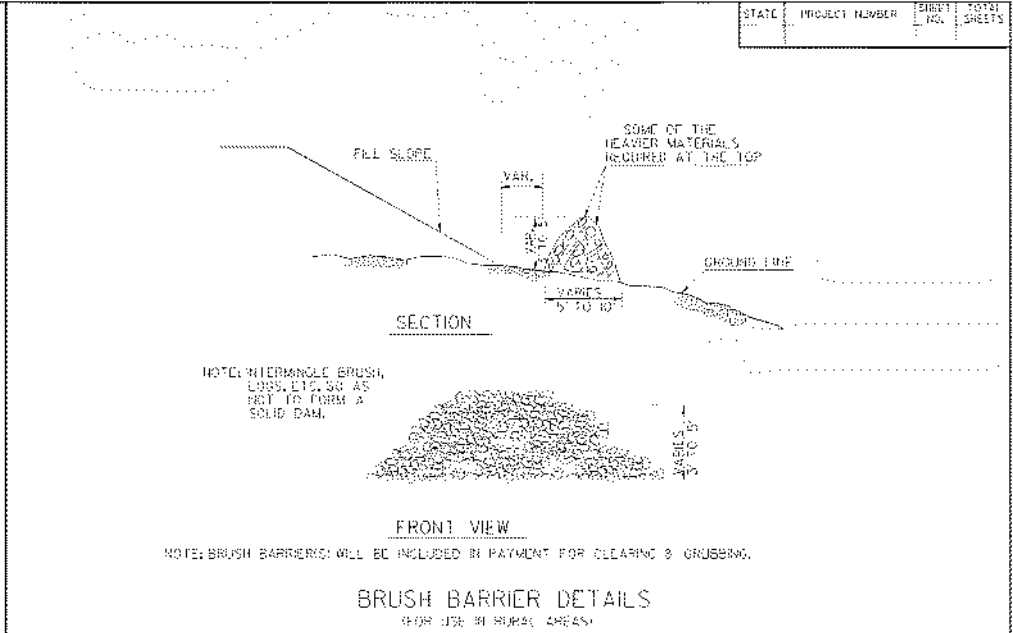
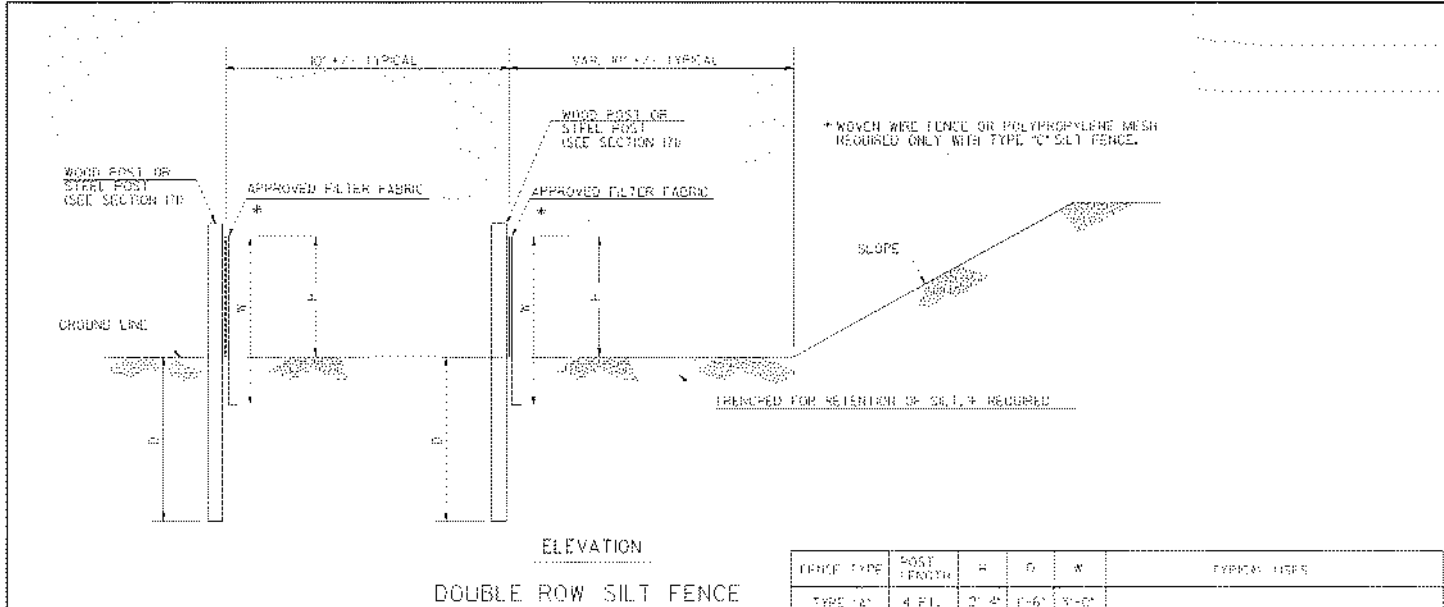
REVISION DATES

EROSION CONTROL CONTRUCTION DETAILS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

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

56-0001

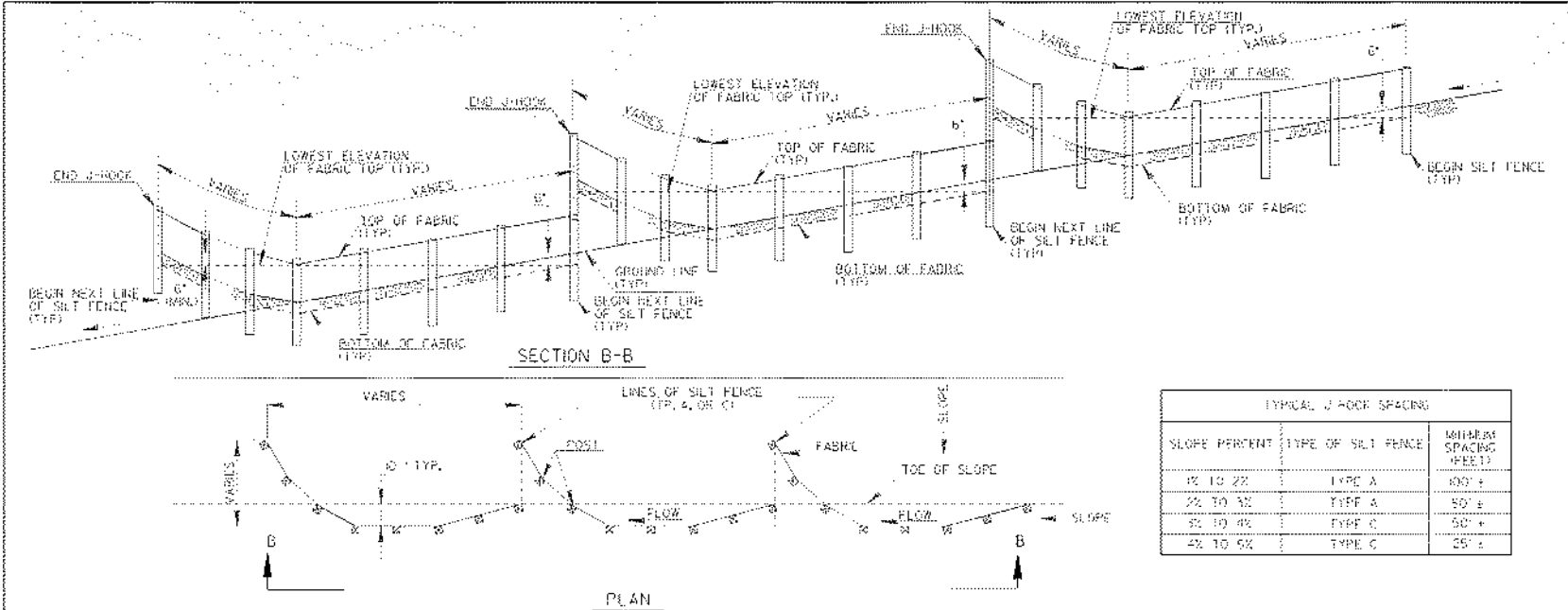


DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

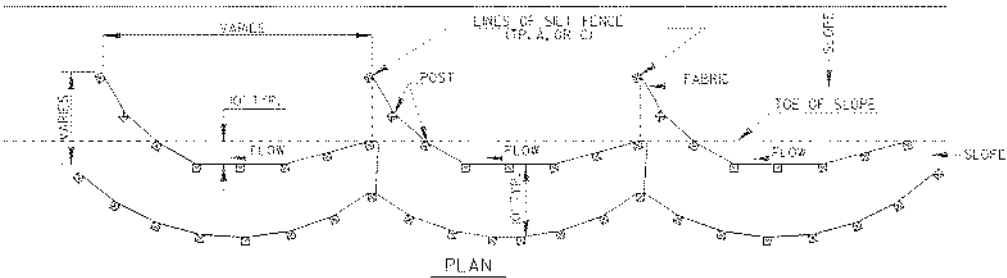
CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
BERM DITCH, INSTALLATION, BRUSH BARRIER

NO SCALE REV. AND REDRAWN JAN. 2011

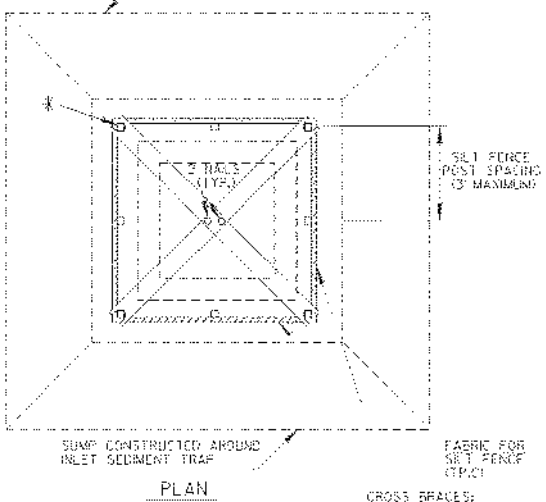
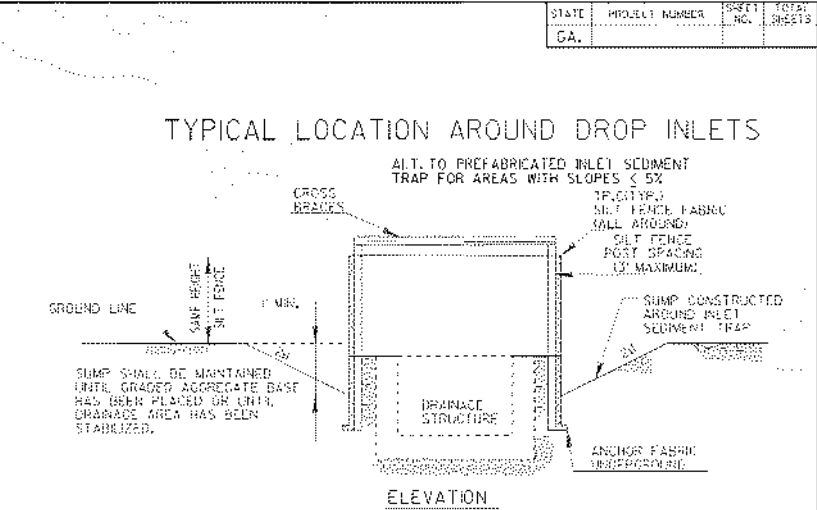
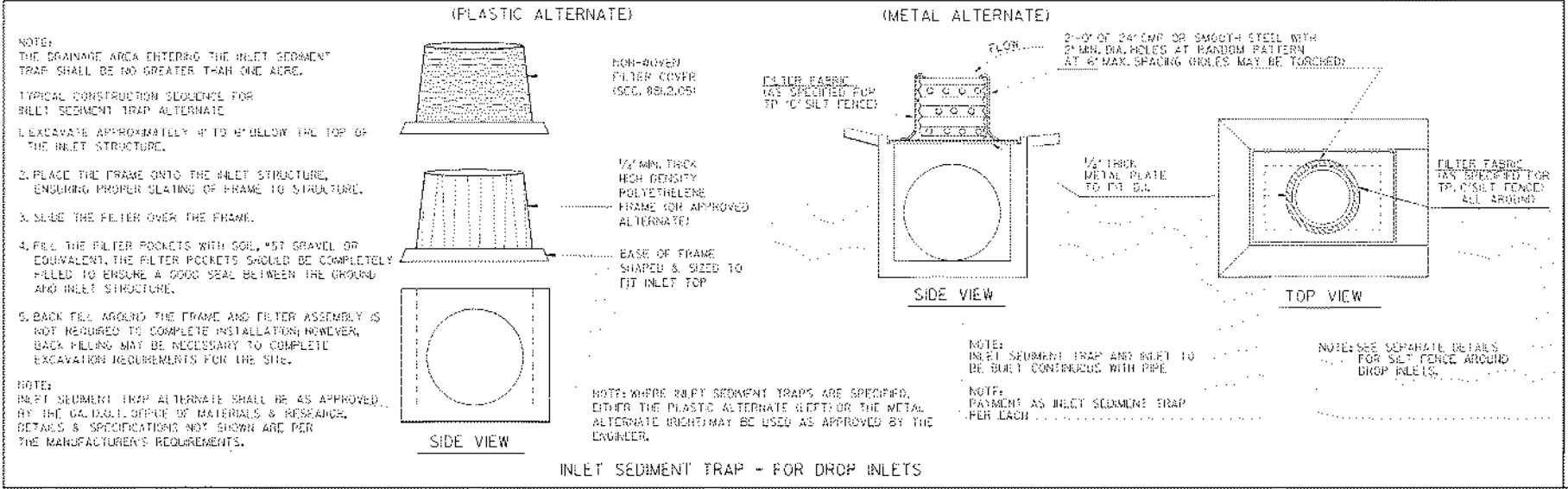
NUMBER
D-24B
(SHEET 3 OF 4)



SINGLE ROW SILT FENCE



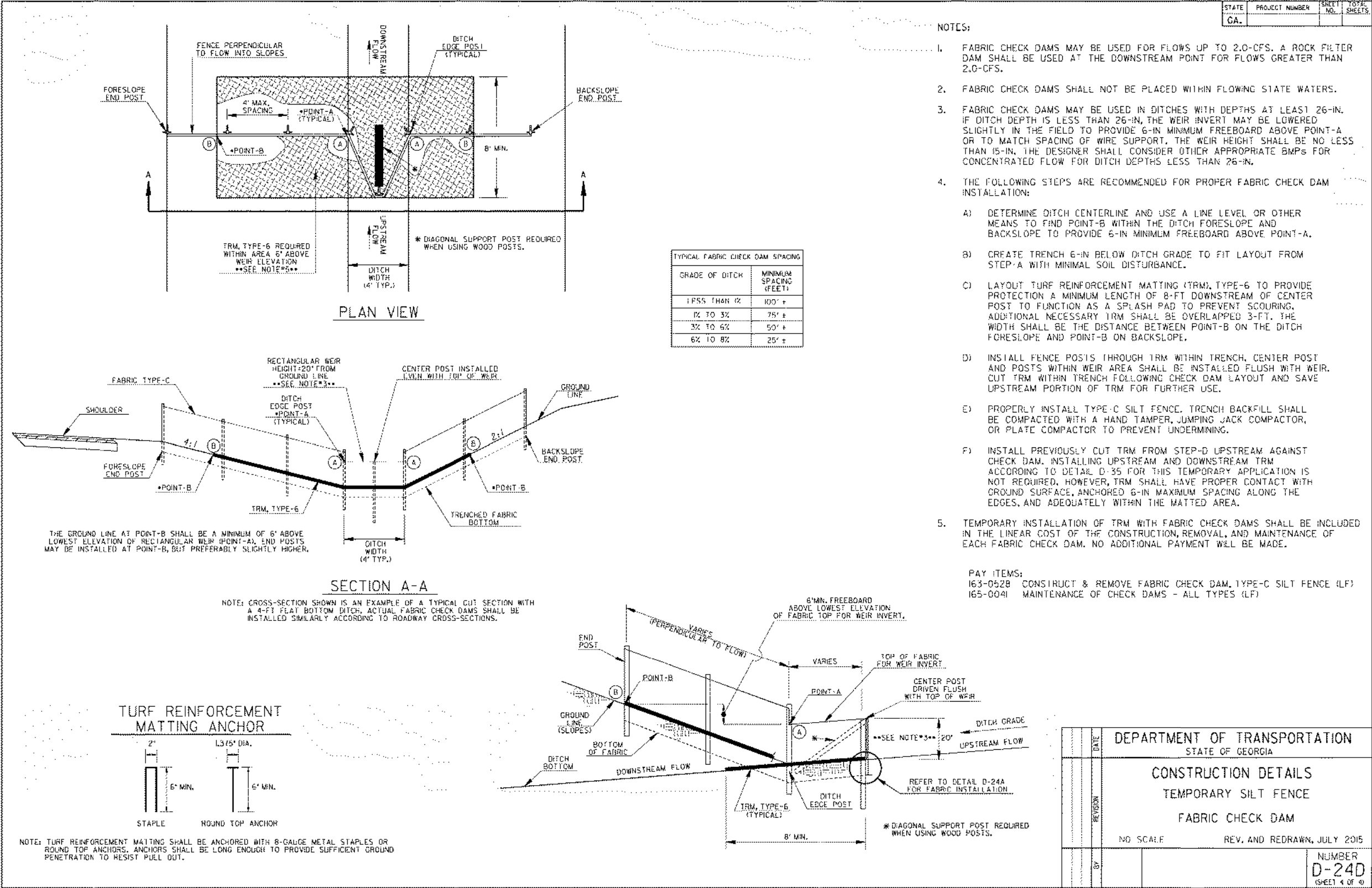
DOUBLE ROW SILT FENCE

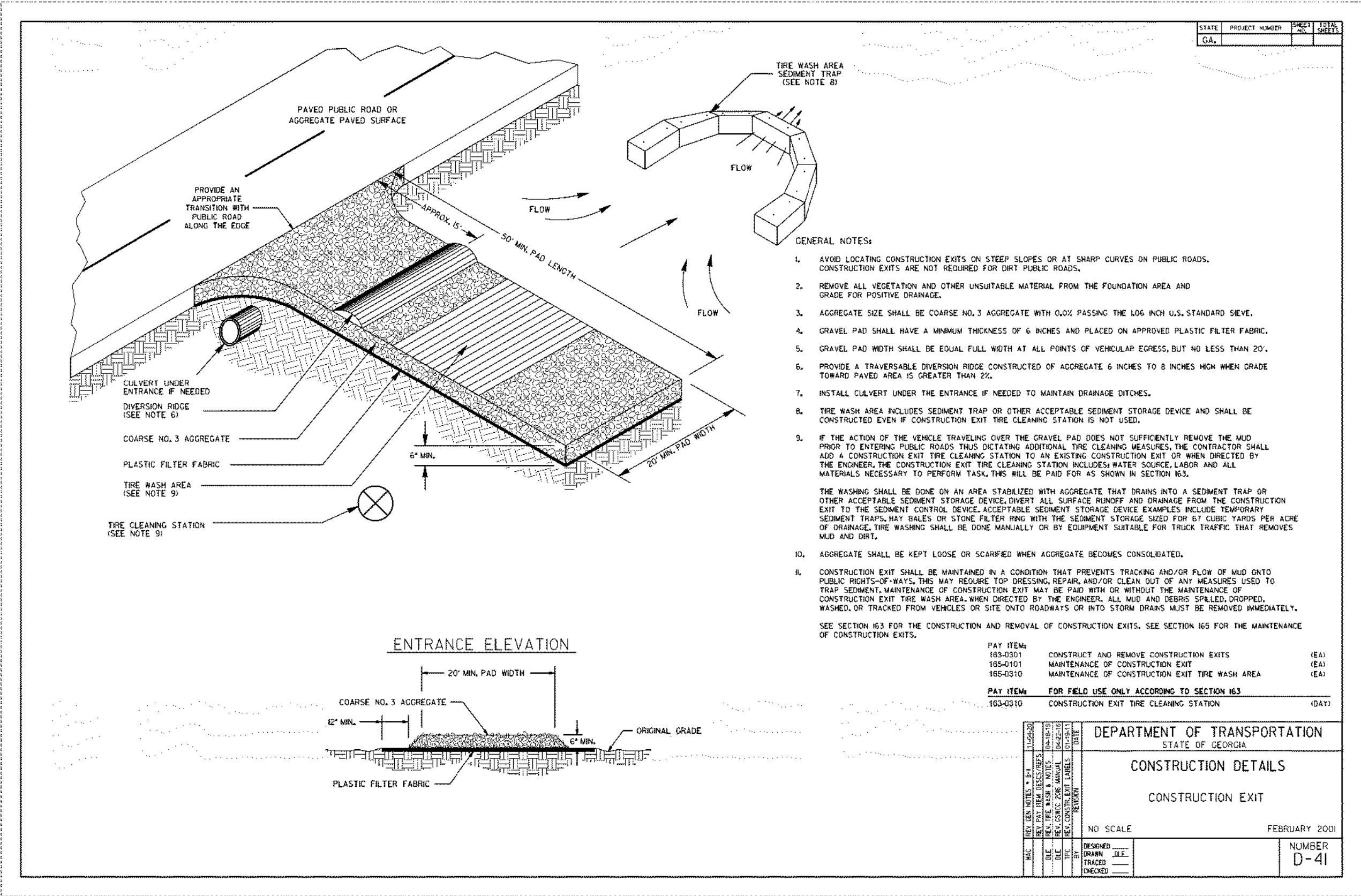


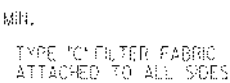
NOTE: PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE: SEE SEPARATE SUMP UNFILLED TEMPORARY SILT FENCE DETAILS FOR SILT FENCE ERECTION DETAILS.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
CONSTRUCTION DETAILS TEMPORARY SILT FENCE J-HOOK, INLET SEDIMENT TRAPS			
NO SCALE		JANUARY 2018	
NUMBER D-24C		SHEET 3 OF 4	







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.



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

DATE	DEPARTMENT OF TRANSPORTATION		
	STATE OF GEORGIA		
REVISION	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
BY			NUMBER
			D-42

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REVISION DATES

EROSION CONTROL CONSTRUCTION DETAILS

SIDEWALK IMPROVEMENTS ON DANFORTH ROAD

CHECKED:	DATE:	DRAWING No. 56-0006
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

6-0006



