

ATLANTA BELTLINE, INC.

PLAN AND PROFILE OF PROPOSED PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION FEDERAL AID PROJECT



LOCATION SKETCH (N.T.S.)

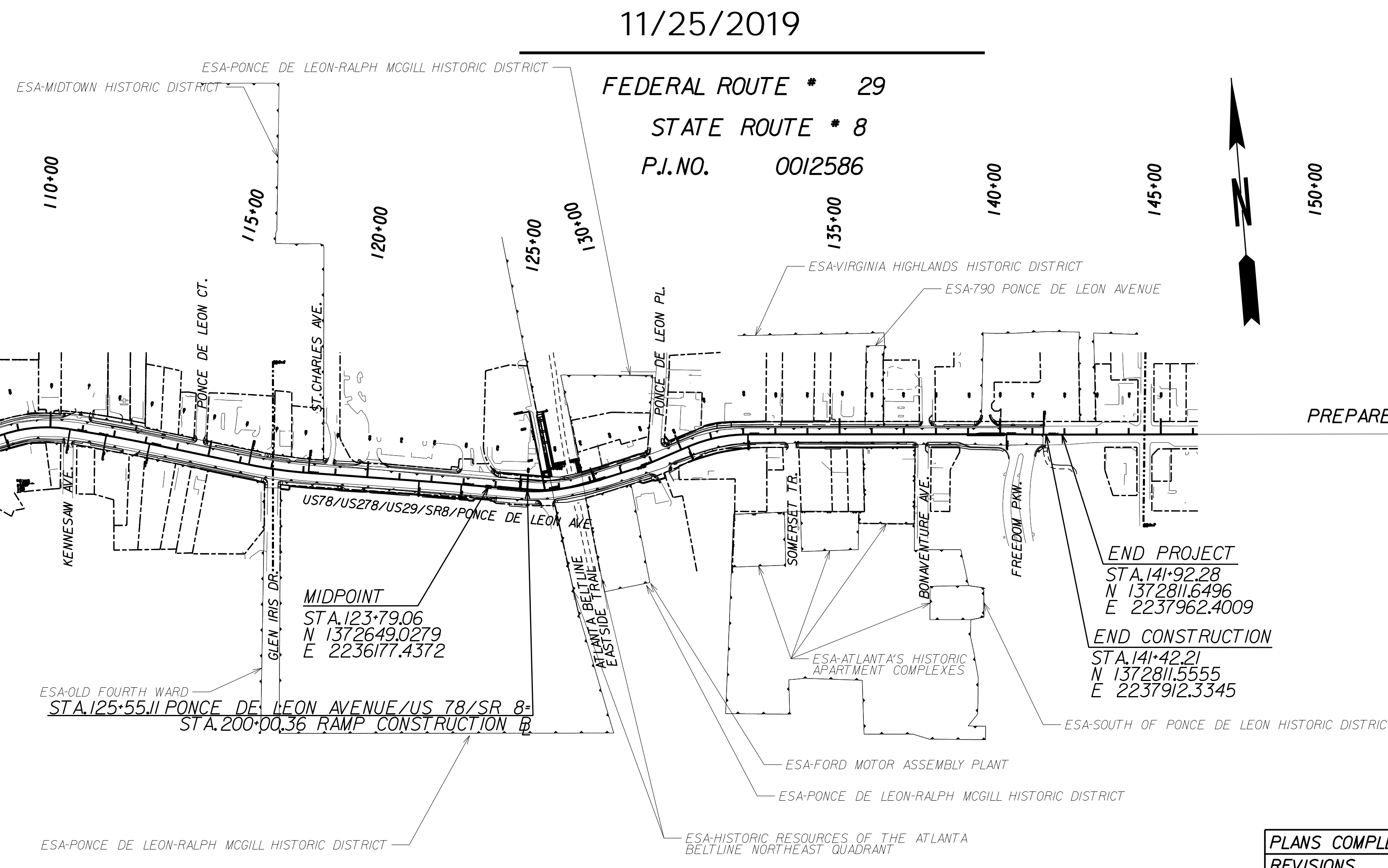
DESIGN DATA:
 TRAFFIC A.D.T.: 36,100 (2019)
 TRAFFIC A.D.T.: 46,700 (2039)
 TRAFFIC D.H.V.: N/A
 DIRECTIONAL DIST: N/A
 % TRUCKS: N/A
 24 HR. TRUCKS %: N/A
 SPEED DESIGN: 35 MPH

BEGIN CONSTRUCTION
 STA. 105+85.85
 N 1372730.2951
 E 2234414.3972
BEGIN PROJECT
 STA. 105+65.83
 N 1372724.0962
 E 2234395.3610

LOCATION & DESIGN APPROVAL DATE: 04/24/15
FUNCTIONAL CLASS:
 URBAN PRINCIPAL ARTERIAL
 THIS PROJECT IS 100% IN FULTON COUNTY AND IS 100% IN CONG. DIST. NO. 5.
PROJECT DESIGNATION: EXEMPT

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

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



11/25/2019

FEDERAL ROUTE * 29
 STATE ROUTE * 8
 P.J. NO. 0012586

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.

NOTE :
 THIS PROJECT CONTAINS POST CONSTRUCTION BMP'S.

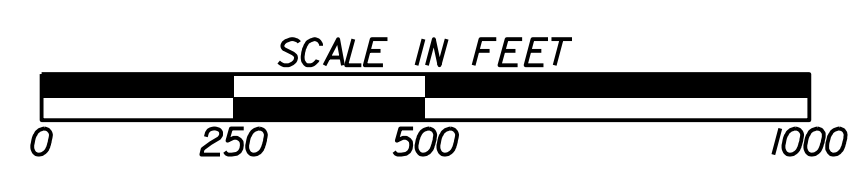
PREPARED BY: **KIMLEY-HORN AND ASSOCIATES, INC.**
 DESIGN



LENGTH OF PROJECT	FULTON CO COUNTY No. 121
	P.J. No. 0012586
	MILES
NET LENGTH OF ROADWAY	0.687
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.687
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.687

Kimley»Horn

Engineering, Planning, and Environmental Consultants
 817 W. Peachtree Street, NW
 Atlanta, Georgia 30308



PLANS COMPLETED	11-25-2019
REVISIONS	
	03/11/2020
	03/27/2020
	04/14/2020
	05/28/2021

DRAWING No.
01-001

SHEET NO.	DWG NO.	DESCRIPTION
	01-001	COVER SHEET
	02-001	INDEX SHEET
	03-001	REVISION SUMMARY SHEET
	04-001 - 04-003	GENERAL NOTES
	05-001 - 05-003	TYPICAL SECTIONS
	06-001 - 06-005	SUMMARY OF QUANTITIES
	07-001	QUANTITIES REQUIRED BY AMENDMENT SHEET
	08-001	QUANTITIES REQUIRED ON CONSTRUCTION SHEET
	11-001 - 11-003	CONSTRUCTION LAYOUT SHEET
	13-001 - 13-008	MAINLINE ROADWAY PLAN SHEETS
	15-001 - 15-004	MAINLINE ROADWAY PROFILE SHEETS
	17-001 - 17-005	DRIVEWAY PROFILE SHEETS
	18-001	GRADING AND DRAINAGE PLAN- ATLANTA BELTLINE CONNECTION
	21-001	DRAINAGE AREA MAP
	22-001 - 22-003	DRAINAGE PROFILES
	23-001 - 23-018	CROSS-SECTIONS
	24-000 - 24-007	UTILITY PLANS
	25-000 - 25-012	LIGHTING PLANS AND DETAILS
	26-001 - 26-007	SIGNING AND MARKING PLANS AND DETAILS
	27-001 - 27-009	SIGNAL PLANS
	28-001 - 28-002	ITS PLANS
	29-001 - 29-009	LANDSCAPING PLANS AND DETAILS
	29-010 - 29-016	TREE PROTECTION PLAN
	31-001	RETAINING WALL ENVELOPES
	32-001 - 32-006	WALL DETAILS
	35-001 - 35-011	ELEVATED WALKWAY LAYOUT
	38-001 - 38-004	SPECIAL PLAN DETAILS
	44-0001 - 44-0014	CITY OF ATLANTA UTILITY RELOCATION PLANS
CONSTRUCTION DETAILS		
	A-1	- DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS (7-11)
	A-2	- CONCRETE VALLEY GUTTER AT STREET INTERSECTION 6 (7-11)
	A-3	- SPECIAL DETAILS - CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS (9-16)
	A-4	- DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS (6-09)
	D-10	- 4" CONCRETE DITCH PAVING DETAILS AND QUANTITIES (1-88)
	D24A	- TEMPORARY SILT FENCE (SHEET 1 OF 4) (1-11)
	D24B	- TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER (SHEET 2 OF 4) (1-11)
	D24C	- TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (SHEET 3 OF 4) (1-11)
	D24D	- TEMPORARY SILT FENCE FABRIC CHECK DAMS (4 OF 4) (07-15)
	D41	- CONSTRUCTION EXIT (4-18)
	D42	- INLET SEDIMENT TRAPS (5-08)
	D52	- BALED STRAW (4-16)
	D54	- 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)
	T-20	- TRAFFIC CONTROL PEDESTRAIN ACCESSIBILITY AROUND WORKZONE- SIDEWALK DIVERSION (10-08)
	T-21	- TRAFFIC CONTROL PEDESTRAIN ACCESSIBILITY AROUND WORKZONE- SIDEWALK DETOUR (10-08)
	ITS-02	- ELECTRICAL COMMUNICATION BOX TYPE 5 (3-07)
	ITS-03	- TUBULAR EXTENSION DETAIL (4-16)
	ITS-04	- CCTV/VDS/IVDS ASSEMBLY AND TYPICAL ERECTION DETAIL (3-16)
	ITS-07	- CONDUIT AND CONDUIT DUCT BANK TYPE 3 INSTALLATION DETAIL (10-06)
	ITS-09	- CONDUIT INSTALLATION AT DRAINAGE STRUCTURES (9-05)
	ITS-12	- ELECTRICAL SERVICE DETAIL (9-05)
	ITS-15	- TYPE D CABINET DETAILS (5-08)
	T-01	- SIGN PLATES (1-00)

SHEET NO.	DWG NO.	DESCRIPTION
		T-02 - DETAILS FOR TYPICAL FRAMING (3-00)
		T-03A - TYPE 7, 8 AND 9 SQUARE TUBE POST INSTALLATION DETAIL (7-02)
		T-03B - DETAILS OF SQUARE TUBE POST (BREAKAWAY SUPPORT) (7-02)
		T-03C - DETAILS OF STRAIN POLE ERECTION FOR OVERHEAD SIGNS (1-03)
		T-05A - DETAILS OF REGULATORY SIGNS (SHEET 1 OF 2) (1-03)
		T-05B - DETAILS OF REGULATORY SIGNS (SHEET 2 OF 2) (1-03)
		T-05C - DETAILS OF WARNING SIGNS (1-00)
		T-06 - DETAILS OF OVERHEAD SIGNS (1-00)
		T-11A - DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY (9-16)
		T-12A - DETAILS OF PAVEMENT MARKING ARROW LOCATION (1-00)
		T-12B - DETAILS OF PAVEMENT MARKINGS - ARROWS (4-00)
		T-13A - DETAILS OF PAVEMENT MARKING WORDS (SHEET 1 OF 2) (09-16)
		T-13B - DETAILS OF PAVEMENT MARKING WORDS (SHEET 1 OF 2) (09-16)
		T-14 - DETAILS OF PAVEMENT MARKING HATCHING (11-08)
		T-15A - DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY (09-16)
		T-15C - DETAILS OF RAISED PAVEMENT MARKERS (09-11)
		T-16 - DETAILS OF BICYCLE LANE PAVEMENT MARKINGS (03-16)
		T-16A - DETAILS OF SHARED BICYCLE LANE (03-16)
		TS-01 - INDUCTIVE-LOOP DETECTOR INSTALLATION (4-10)
		TS-02 - PULLBOX ASSEMBLY AND INSTALLATION (4-10)
		TS-03 - CABINET BASE DETAIL (4-10)
		TS-03A - PEDESTRIAN FACILITIES INSTALLATION DETAILS (4-10)
		TS-04 - DETAILS OF METAL TRAFFIC SIGNAL SUPPORT STRUCTURES (4-10)
		TS-06 - DETAILS OF STRAIN POLE AND MAST ARM FOUNDATIONS (4-10)
		TS-07 - GROUNDING DETAILS FOR TRAFFIC SIGNAL SUPPORT STRUCTURES (4-10)
		TS-08 - UTILITY CLEARANCE DETAIL (4-10)
		TS-10 - FIBER OPTICS DETAILS 1 OF 2 (4-10)
		TS-11 - FIBER OPTICS DETAILS 2 OF 2 (4-10)
CONSTRUCTION STANDARDS		
		1011A - BRICK MAHOLES (10-81)
		1019A - DROP INLETS (8-99)
		1033D - CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND GUTTER) (8-92)
		9032B - CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE MEDIANS (11-11)
		9100 - TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS (3-06)
	50-001	EROSION CONTROL COVER SHEET
	51-001 - 51-003	ESPC GENERAL NOTES
	52-001	CONST. DETAIL (EC-L1) - EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 1 OF 7) (03-17)
	52-002	CONST. DETAIL (EC-L2) - EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 2 OF 7) (03-17)
	52-003	CONST. DETAIL (EC-L3) - EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 3 OF 7) (03-17)
	52-004	CONST. DETAIL (EC-L4) - EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 4 OF 7) (03-17)
	52-005	CONST. DETAIL (EC-L5) - EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 5 OF 7) (03-17)
	52-006	CONST. DETAIL (EC-L6) - EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 6 OF 7) (03-17)
	52-007	CONST. DETAIL (EC-L7) - EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 7 OF 7) (03-17)
	53-001 - 53-002	EROSION CONTROL DRAINAGE AREA MAP
	54-001 - 54-021	BMP LOCATION DETAILS
	55-001	WATERSHED MAP AND SITE MONITORING LOCATION
	56-001 - 56-002	POST CONSTRUCTION STORMWATER BMP CONSTRUCTION DETAILS
GEORGIA DOT CONSTRUCTION DETAILS AND STANDARDS ARE NOT INCLUDED IN THE PLAN SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE DRAWINGS SPECIFIED HEREIN.		



REVISION DATES

ATLANTA BELTLINE

INDEX

DRAWING No.
02-001

PROJECT NOTES

1. A NOTICE OF INTENT IS REQUIRED FOR THIS PROJECT. THE DISTURBED AREA IS 8.00 ACRES, THE PROJECT INVOLVES CONSTRUCTING SIDEWALK, INTERSECTION IMPROVEMENTS, TRAFFIC SIGNAL INSTALLATION, AN ADA ACCESSIBLE RAMP TO THE BELTLINE AND A STAIR CONNECTION TO THE ATLANTA BELTLINE CORRIDOR. NET LOSS IN IMPERVIOUS IS 0.30 ACRES.
2. THE CONTRACTOR SHALL CONTACT THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
3. THERE IS NO KNOWN SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE AS SHOWN IN GA SPECIFICATION 201 TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. 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 AS ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION. ANY CONTAMINATED SOIL EXCAVATED DURING CONSTRUCTION ACTIVITIES ALONG THE PROJECT MUST BE DISPOSED OF AT A PERMITTED LINED MUNICIPAL SOLID WASTE LANDFILL.
5. AT ALL LOCATIONS WHERE EXISTING CURB, SIDEWALK OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE, TO BE PAID FOR BY GRADING COMPLETE.
6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER PRIOR TO STARTING WORK.
7. ALL ADA RAMPS AND SIDEWALK WITHIN THE INTERSECTION RADII ARE TO BE 8 INCH CONCRETE. THE COST FOR ADA RAMPS INCLUDING DETECTABLE WARNING STRIPS SHALL BE INCLUDED IN THE PRICE BID FOR 8 INCH CONCRETE SIDEWALK.
8. ALL DETECTABLE WARNING SURFACES ARE TO BE RED MASONRY PAVERS.
9. ALL SIGNS WITHIN PROJECT LIMITS WILL BE REPLACED AS SHOWN ON THE SIGNING AND MARKING PLANS.
10. FINISH GRADES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEW SIDEWALK IS GRADED TO DRAIN, EITHER TO EXISTING OR NEW STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL ACCESSIBILITY CODES.
11. NO BURNING OF MATERIALS WILL BE ALLOWED ON SITE.
12. ALL MINOR UTILITY STRUCTURES, SUCH AS VALVES, METERS, FIRE HYDRANTS AND MANHOLES, WILL BE ADJUSTED TO FINAL GRADE AND WILL BE PAID FOR UNDER 'GRADING COMPLETE.'
13. ALL EXISTING DRAINAGE STRUCTURES ARE TO BE CLEANED OUT PRIOR TO CONSTRUCTION AND KEPT FREE OF DEBRIS. CLEANING DEBRIS OUT OF EXISTING DRAINAGE STRUCTURES WILL BE INCLUDED THE OVERALL PRICE BID FOR GRADING COMPLETE.
14. CONTRACTOR TO COORDINATE REMOVAL OR RELOCATION OF EXISTING MARTA STOPS AND SHELTERS WITH MARTA OR MARTA REPRESENTATIVE.
15. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED WILL BE PAVED BACK TO THE TIE IN POINT OR REQUIRED RIGHT OF WAY, WHICHEVER IS GREATER. ALL DRIVEWAYS OVER 11' IN GRADE SHALL BE PAVED CONCRETE. ALL OTHER DRIVEWAYS SHALL BE REPLACED AS FOLLOWS: ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE AND ASPHALT FOR EARTH/GRAVEL DRIVES. RESIDENTIAL DRIVE 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. EXISTING DRIVEWAY LOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA; THE CONTRACTOR SHALL CONSTRUCT DRIVEWAYS TO MATCH THE LOCATION OF EXISTING DRIVEWAYS AT THE TIE IN POINT. IF APPLICABLE, THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVE TO BE CONSTRUCTED. DRIVEWAY SHALL BE CONSTRUCTED USING:
 - RESIDENTIAL:
 - ASPHALT- RECYCLED ASPH. CONC. 12.5 mm SUPERPAVE, GP 2 ONLY (INCL POLY-MOD, BITUM MATL AND H LIME) (165 LB/SY), 6" GRADED AGGREGATE BASE
 - CONCRETE- DRIVEWAY CONCRETE, 6 IN THICK, CONC VALLEY GUTTER, 6 IN
 - COMMERCIAL:
 - ASPHALT- RECYCLED ASPH. CONC. 12.5 mm SUPERPAVE, GP 2 ONLY (INCL POLY-MOD, BITUM MATL AND H LIME) (165 LB/SY), RECYCLED ASPH. CONC. 19 mm SUPERPAVE, GP 1 OR 2 (INCL BITUM MATL AND H LIME) (220 LB/SY), 6" GRADED AGGREGATE BASE
 - CONCRETE- DRIVEWAY CONCRETE, 8 IN THICK, CONC VALLEY GUTTER, 8 IN
16. THIS PROJECT CONTAINS POST CONSTRUCTION STORMWATER (PERMANENT) BMP'S. REFER TO SECTION 38 FOR SPECIFIC REQUIREMENTS.
17. IF POST CONSTRUCTION BMP CANNOT BE BUILT WITHIN THE TOLERANCES ALLOWED, THE CONSTRUCTION PROJECT MANAGER SHALL NOTIFY THE OFFICE OF PROGRAM DELIVERY PROJECT MANAGER AND AREA ENGINEER. MODIFICATIONS MUST BE APPROVED BY THE GDOT OFFICE OF DESIGN POLICY AND SUPPORT PRIOR TO THE INSTALLATION.
18. EXISTING UTILITY INFORMATION IS BASED ON UTILITY OWNER MARKUPS.
19. THE CONTRACTOR SHALL ENSURE THAT PEDESTRIAN ACCESS IS MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
20. ALL TEMPORARY SHORING WILL BE CONSIDERED INCIDENTAL TO GRADING COMPLETE AND WILL NOT BE MEASURED FOR PAYMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WHAT IS SHOWN IN THE PLANS IS FOR INFORMATIONAL PURPOSES ONLY.

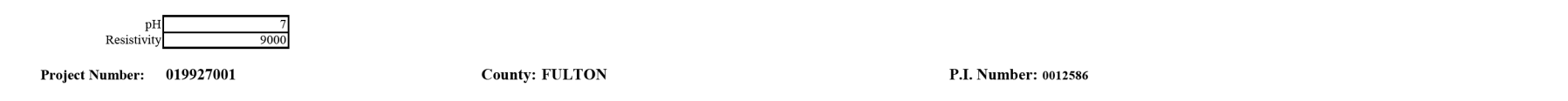
SIGNING AND MARKING NOTES

1. ALL STANDARD SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.



**Know what's below.
Call before you dig.**

UTILITY OWNERS	
FACILITY	OWNER
GAS	ATLANTA GAS LIGHT
PHONE	CENTURY LINK
PHONE	AT&T
FIBER	GOOGLE FIBER
ELECTRIC	GEORGIA POWER DISTRIBUTION
WATER	CITY OF ATLANTA
SEWER	CITY OF ATLANTA



TYPE OF INSTALLATION		PIPE TYPE												
		CONCRETE			STEEL		ALUMINUM		THERMOPLASTIC					
STORM DRAIN	NON TRAVEL BEARING (ASPHALT)	INTERSTATE	REINFORCED CONCRETE ASHTO M 476	CORRUGATED STEEL ALUMINUM COATED PIPE 7" ASHTO M 36	CORRUGATED STEEL PLAIN ZINC COATED ASHTO M 36	FRIBER COATED STEEL ASHTO M 242	CORRUGATED ALUMINUM ASHTO M 194	CORRUGATED HDPE ASHTO M 252	CORRUGATED SMOOTH LINED HDPE PIPE 7" ASHTO M 294	CORRUGATED SMOOTH LINED POLYPROPYLENE ASHTO M 336	PVC CORRUGATED SMOOTH INTERIOR ASCL 4242	PVC FIBERGLASS DRAIN PIPE ASHTO M 361		
		NON INTERSTATE	X	X	X	X	X	X	X	X	X	X	X	X
		ADT < 1,500	X	X	X	X	X	X	X	X	X	X	X	X
		1,500 - ADT < 5,000	X	X	X	X	X	X	X	X	X	X	X	X
TRAVEL BEARING (ASPHALT)	GRADE ≤ 10%	5,000 - ADT < 15,000	X	X	X	X	X	X	X	X	X	X		
		ADT ≥ 15,000 & INTERSTATES	X	X	X	X	X	X	X	X	X	X		
GRADE > 10%					X			X	X	X	X	X		
SIDE DRAIN		X	X	X	X	X	X	X	X	X	X	X		
PERMANENT SLOPE DRAIN			X	X	X	X	X		X	X	X	X		
PERFORATED UNDERDRAIN			X	X		X	X	X	X	X	X	X		

NOTES:

- 1 Allowable materials are indicated by an "X".
- 2 Structural installation, fill height and backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P and the Standard Specifications.
- 3 The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.
- 4 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.

Rev. 1-12-16 4.5.26

2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.
 3. ALL SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
 5. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
 6. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.
 7. TYPE 9 (HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
 8. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3A, R5-1, R5-1A).
 9. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE 1X (WIDE ANGLE PRISMATIC) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROXIMATE COLOR.
 10. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
 11. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
 12. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
 13. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OR MISCELLANEOUS SIGNS.
- LANDSCAPING NOTES**
- PART 1: GENERAL
- 1.1 DESCRIPTION:
 - A. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, APPLIANCES, TRANSPORTATION, ETC., REQUIRED FOR INSTALLATION OF ALL LANDSCAPING WORK AND ESTABLISHMENT OF TREES, SHRUBS, PERENNIALS, AND GROUND COVER AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST AND AS HEREIN SPECIFIED.
 - B. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THE CONTRACT UNTIL TWO YEARS AFTER FINAL ACCEPTANCE.
 - 1.2 QUALITY ASSURANCE:
 - A. PLANT QUANTITIES SHOULD BE VERIFIED AS SHOWN ON THE PLANTING PLAN. THE PLANT SCHEDULE IS PRODUCED SO THAT A SUMMARY OF THE PROPOSED PLANTINGS IS PROVIDED. THE ACTUAL DRAWING OVER RIDES THE QUANTITIES SHOWN IN THE PLANT SCHEDULE - THE CONTRACTOR SHOULD NOT RELY ON THE PLANT SCHEDULE FOR EXACT QUANTITIES.
 - B. SIZING AND GRADING OF PLANT MATERIALS SHALL COMPLY WITH THE SIZING AND GRADING OF THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN, (AAN). ANSI Z60.1-2004.

LANDSCAPING NOTES (CONTINUED)

1.3 PROJECT CONDITIONS:

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TESTING AND SOIL ANALYSIS OF BOTH EXISTING SOILS AND TOPSOIL SUPPLIED FOR PLANTING BEDS/PITS INDICATING SOIL PH, ABSENCE OR PRESENCE OF ANY TOXIC SUBSTANCES, MICRO AND MACRO NUTRIENT VALUES, CONCENTRATIONS OF SOLUBLE SALTS, ORGANIC CONTENT AND RECOMMENDED AMENDMENT.
- B. THE CONTRACTOR SHALL FIELD CHECK THE LOCATION OF UTILITIES BEFORE INSTALLATION OF ANY MATERIAL OR PLANTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DRAINAGE RESULTING FROM NEGLIGENCE OR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- C. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF SIZE AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS UNDER "REPLACEMENT PLANTING SCHEDULE."
- D. ALL ROCK, UNDERGROUND CONSTRUCTION DEBRIS, TREE ROOTS FROM ADJACENT TREES TO REMAIN, OR OBSTRUCTIONS ENCOUNTERED DURING THE EXCAVATION OF THE TREE PITS SHALL BE REMOVED FROM THE SITE.
- E. TREE PITS SHALL BE TESTED BY FILLING A ONE-FOOT HOLE AT BOTTOM OF THE PIT WITH WATER TWICE IN SUCCESSION. CONDITIONS CAUSING THE RETENTION OF WATER MORE THAN 24 HOURS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO PLANTING.
- F. THE CONTRACTOR SHALL NOTIFY THE OWNER, IN WRITING, ALL CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF THE PLANT MATERIAL.

PART 2: PRODUCTS

2.1 TOPSOIL:

- A. FOR USE IN PREPARING SOIL FOR BACK FILLING PLANT PITS. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL DRAINED ARABLE SITE. IT SHALL NOT BE SOURCED FROM LAND USED FOR FARMING. IT SHALL NOT CONTAIN SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREENED AND FREE FROM CLAY, LUMPS, STONES, ROOTS, PLANTS, OR SIMILAR SUBSTANCES 1" OR MORE IN DIAMETER, DEBRIS, OR OTHER OBJECTS WHICH MIGHT BE A HINDRANCE TO PLANTING OPERATIONS. TOPSOIL SHALL CONTAIN AT LEAST 4-6% ORGANIC MATTER BY WEIGHT AND HAVE A PH RANGE OF 5.5 TO 6.5.

IT SHALL HAVE THE FOLLOWING MECHANICAL ANALYSIS:
 SIEVE SIZE:PASSING BY WEIGHT:
 1" 99-100%
 1/2" 97-99%
 NO. 100 MESH40-60%
 NO. 200 MESH20-40%

- B. SOIL SAMPLES SHALL BE TAKEN FOR PROGRAMMED TURF AND LANDSCAPE AREAS SEPARATELY AND AT LEAST 60 DAYS PRIOR TO PLACEMENT SENT TO THE LOCAL EXTENSION SERVICE TO DETERMINE THE APPROPRIATE FERTILIZATION AND MINERAL SUPPLEMENT SCHEDULE.

2.2 WATER:

- A. CONTRACTOR REQUIRED TO PROVIDE WATER NECESSARY FOR INITIAL PLANTING AND MAINTENANCE FOR PROPER PLANT AND TURF ESTABLISHMENT (SEE SECTION 3.3.B.2.C) THROUGHOUT THE TWO YEAR WARRANTY PERIOD.

2.3 MULCH:

- A. SHALL BE ORGANIC HARDWOOD MULCH, TREATED FOR INSECTS, AND APPLIED AT DEPTH SPECIFIED PER PLANS AND SHALL CONTAIN NO EXTRANEOUS MATERIAL.
- B. CONTRACTOR SHALL PLAN ON PROVIDING ALL NEW REPLACEMENT MULCH AT LEAST ONE ADDITIONAL TIME (IN ADDITION TO THE INITIAL INSTALLATION) DURING THE TWO-YEAR WARRANTY PERIOD.

2.4 FERTILIZER:

- A. ALL GRANULAR COMMERCIAL FERTILIZERS SHALL CONFORM TO THE APPLICABLE STATE FERTILIZER LAWS. IT SHALL BE UNIFORM, IN COMPLETION, DRY AND FREE FLOWING.
- B. FERTILIZER SHALL BE TEN (10 PERCENT NITROGEN, TEN (10 PERCENT PHOSPHOROUS, TEN (10) PERCENT POTASSIUM, AND INCLUDE TRACE ELEMENTS. ONE HUNDRED (100) PERCENT BY WEIGHT OF NITROGEN CONTENT OF FERTILIZER SHALL BE DERIVED FROM ORGANIC MATERIALS. FERTILIZER ANALYSIS SHALL BE MODIFIED OR REVISED AS A RESULT OF CONTRACTOR'S SOIL TESTS, IF REQUIRED.

2.5 COMPOST:

- A. ORGANIC SOIL AMENDMENT MATERIAL (COMPOST) SHALL BE A BLEND OF COMPOSTED MANURE AND HUMUS SHALL BE SCREENED AND FREE FROM LUMPS, STONES, PLANT MATERIAL AND DEBRIS, FREE OF WEED SEED AND OTHER MATERIAL HARMFUL TO PLANT LIFE. SOIL AMENDMENT MATERIAL SHALL MEET THE FOLLOWING CHEMICAL ANALYSIS:
 ORGANIC MATTER CONTENT50-80%
 PH RANGE6.0-8.0
 AMMONIA NITROGENMAX. 500 PPM
 SALT CONTENT (STANDARD PACE EXTRACT)MAX. 5.0MMCHOS.CM
 CARBON/NITROGEN RATION15-30

2.6 PLANT MATERIAL:

- A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. ALL PLANTS SHALL BE FRESHLY DUG, FREE FROM DEFECT, SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED, AND FREE OF DISEASES, INSECTS, INSECT EGGS, AND LARVAE, AND SHALL HAVE ADEQUATE ROOT SYSTEMS.
- B. ALL PLANT MATERIAL MUST MEET ANSI Z60.1-2004 (OR MOST CURRENT EDITION) STANDARDS.
- C. PLANT MATERIAL SHALL BE TRUE TO SPECIES, CULTIVAR, OR VARIETY. ALL PLANTS OF THE SAME GENUS AND SPECIES SHALL BE THE SAME VARIETY AND/OR CULTIVAR AND COLOR, UNLESS OTHERWISE SPECIFICALLY NOTED ON DRAWINGS.
- D. PLANTS SHALL BE OBTAINED FROM LICENSED NURSERIES ONLY.
- E. ALL FEDERAL, STATE AND LOCAL CERTIFICATES OF INSPECTION, AS REQUIRED BY LAW SHALL ACCOMPANY THE INVOICE OF EACH SHIPMENT OF PLANTS.
- F. PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY.
- G. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AFTER COMPLETION FOR SIZE AND CONDITION OF ROOTS, AND ROOT BALLS, LATENT DEFECTS OR INEFFICIENCIES NOT MEETING ANSI Z60.1-2004, AAN
- H. ALL B & B STOCK SHALL BE PLANTED WITH IN 24 HOURS OR HEELED IN AND COMPLETELY COVERED WITH WOOD CHIPS

2.7 CONTAINER GROWN STOCK:

- A. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL ROOTED IN THE CONTAINERS WHICH THEY WERE SOLD, AS WELL AS FREE OF INSECTS AND DISEASE.

- B. PLANTS SHALL MEET ANSI Z60.1-2004 AAN STANDARDS.

- A. ROUNDUP, WHEN USED IT MUST BE APPLIED AS SPECIFICALLY DIRECTED ON LABEL AND BY OR UNDER SUPERVISION OF A LICENSED PROFESSIONAL.
- 2.8 HERBICIDE:
 B. WHEN WITHIN 100 FT. OF WETLAND OR STREAM AN AQUATIC GLYPHOSATE MAYBE USED WITH FOLIAR SPRAY OR SELECTIVE STEM PAINTING TECHNIQUES, AND MUST BE APPLIED AS SPECIFICALLY DIRECTED ON LABEL BY A LICENSED PROFESSIONAL.
 1. RENOVATE 3 IS AN APPROPRIATE BROADLEAF SELECTIVE HERBICIDE TO USE IN THESE AREAS.
 2. RODEO IS AN APPROPRIATE NON-SELECTIVE HERBICIDE TO USE IN THESE AREAS.

PART 3: EXECUTION:

3.1 PLANTING SEASON:

- A. THE PREFERRED PLANTING SEASON FOR B&B CONTAINER STOCK SHALL BE BETWEEN OCTOBER 15 AND MARCH 31.
- B. ADJUST WATERING SCHEDULE BASED ON WEATHER CONDITIONS AND RAINFALL.

3.2 PLANTING GRASSES:

- A. OVER SEEDING:
 1. SOW SEED WITH SPREADER OR SEEDING MACHINE. DO NOT BROADCAST OR DROP SEED WHEN WIND VELOCITY EXCEEDS 5 MPH (8 KM/H). EVENLY DISTRIBUTE SEED BY
 2. TILL AND AMEND SOIL TO A 3"-6" DEPTH. SOWING EQUAL QUANTITIES IN TWO DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.
 A. DO NOT USE WET SEED OR SEED THAT IS MOLDY OR OTHERWISE DAMAGED.
 B. DO NOT SEED AGAINST EXISTING TREES. LIMIT EXTENT OF SEED TO OUTSIDE EDGE OF PLANTING SAUCER.
 3. SOW SEED AT A TOTAL RATE OF 15 LB./1000 SQ. FT..
 4. RAKE SEED LIGHTLY INTO TOP 1/8 INCH OF SOIL, ROLL LIGHTLY, AND WATER WITH FINE SPRAY.
 5. PROTECT SEEDED AREAS WITH SLOPES EXCEEDING 3:1 WITH EROSION-CONTROL FIBER MESH INSTALLED AND STAPLED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
 6. PROTECT SEEDED AREAS WITH EROSION-CONTROL MATS WHERE SHOWN, INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
 7. PROTECT SEEDED AREAS WITH SLOPES NOT EXCEEDING 3:1 BY SPREADING STRAW MULCH. SPREAD UNIFORMLY AT A MINIMUM RATE OF 2 TONS/ACRE TO FORM A CONTINUOUS BLANKET 1-1/2 INCHES IN LOOSE DEPTH OVER SEEDED AREAS. SPREAD BY HAND, BLOWER, OR SUITABLE EQUIPMENT. STRAW SHALL BE FREE OF WEED SEEDS

- A. ANCHOR STRAW MULCH BY CRIMPING INTO SOIL WITH SUITABLE MECHANICAL EQUIPMENT.

e-016, 11.08;3.3 PLANT MAINTENANCE:

A. WARRANTY:

- 1. WARRANTY PLANT MATERIAL IS TO REMAIN ALIVE AND BE IN A HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF TWO YEARS AFTER ACCEPTANCE OF INSTALLATION.
- 2. REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE DEAD OR ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AND HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHED OR CONDITIONS DUE TO THE CONTRACTOR NEGLIGENCE. CONTRACTOR SHALL BEAR THE COST OF COMPLETE REPLACEMENT(S). REPLACEMENT MATERIAL SHALL BE WARRANTED FOR 1 YEAR FROM THE DATE OF INSTALLATION.
- 3. MATERIAL AND OPERATIONS:
 ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL FURNISH PLANTED AND MULCHED AS SPECIFIED UNDER PROJECT PLANS AND SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.
- 4. WARRANTY SHALL NOT INCLUDE DAMAGE OR LOSS OF PLANTS OR GROUND COVERS CAUSED BY FIRES, FLOODS, FREEZING RAINS, LIGHTING STORMS, WINDS OVER 75 MPH, SEVERE WINTER CONDITIONS NOT TYPICAL OF THE PLANTING REGION, AND ACTS OF VANDALISM, OR NEGLIGENCE ON THE PART OF THE OWNER.
- 5. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE MAINTENANCE, THE CONTRACTOR SHALL VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURE OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. SUCH SITE VISITS SHALL BE CONDUCTED AT A MINIMUM OF ONCE PER MONTH FOR TWELVE (12) MONTHS FROM THE DATE OF FINAL ACCEPTANCE.
- B. MAINTENANCE OF PLANT MATERIALS:
 1. MAINTAIN PLANTINGS DURING INSTALLATION UNTIL FINAL ACCEPTANCE. AFTER FINAL ACCEPTANCE, CONTRACTOR SHALL PROVIDE MAINTENANCE FOR ALL INSTALLED PLANTING MATERIAL WHICH SHALL INCLUDE WATERING, WEEDING, FERTILIZING, APPLYING INSECTICIDES, PRUNING, REPLACING DEAD PLANT MATERIAL, AND RE-MULCHING FOR A PERIOD OF ONE YEAR STARTING FROM THE DATE OF FINAL ACCEPTANCE. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FREQUENCY OF MAINTENANCE VISITS WITH THE ATLANTA BELTLINE AND ADHERING TO THE SCHEDULE SET.
 2. MAINTENANCE SHALL INCLUDE PRUNING FOLLOWING REVIEW WITH THE LANDSCAPE ARCHITECT OR DESIGNATED CERTIFIED ARBORIST, CULTIVATING, WEEDING, WATERING AND APPLICATION OF APPROPRIATE INSECTICIDES AND FUNGICIDES NECESSARY TO MAINTAIN PLANTS FREE OF INSECTS AND DISEASE.
 A. RESET SETTLED PLANTS TO PROPER GRADE AND POSITION. RESTORE PLANTING SAUCER AND ADJACENT MATERIAL, AND REMOVE DEAD MATERIAL.
 B. CORRECT DEFECTIVE WORK AS SOON AS POSSIBLE AFTER DEFICIENCIES BECOME APPARENT AND WEATHER AND SEASON PERMIT
 C. WATER PLANTS AND GROUND COVER BEDS WITHIN THE FIRST 24 HOURS OF INITIAL PLANTING. THEN WATER PLANTS NO LESS THEN TWICE PER WEEK UNTIL FINAL ACCEPTANCE WHEN IT HAS NOT RAINED OVER 1" IN THE PAST CONSECUTIVE SEVEN DAYS.
 3. REMOVE AND REPLACE SHRUBS AND GROUND COVER FOUND TO BE DEAD OR IN UNHEALTHY CONDITION DURING THE WARRANTY PERIOD. REPLACE TREES AND SHRUBS WHICH ARE IN DOUBTFUL CONDITION AT END OF WARRANTY PERIODS UNLESS, IN OPINION OF LANDSCAPE ARCHITECT, IT IS ADVISABLE TO EXTEND WARRANTY PERIOD FOR A FULL PLANTING SEASON.
 4. MAINTENANCE SHALL ALSO INCLUDE FOLLOW-UP, AT THE END OF THE WARRANTY PERIOD, PRIOR TO RETAINAGE RELEASE AS FOLLOWS:
 e-016, 10; A. REMOVE AND RENEW MULCH SAUCER.
 e-015, 19, 599;

END OF LANDSCAPE SPECIFICATION SECTION

		 <p>Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</p>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">REVISION DATES</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISION DATES																		<p>ATLANTA BELTLINE</p> <hr/> <p>GENERAL NOTES</p>
REVISION DATES																							
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">DRAWING No. 04-002</td> </tr> </table>	DRAWING No. 04-002																		
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Environmental Resources Impact Table						
These resources and the restrictions listed are governed by state and federal law.						
Resource Name (from Section A of the ECT)	Location			Permitted Construction Activity (from Section A of the ECT)	Special Provision? (from Section B of the ECT)	Comments (from Section C of the ECT, comments only)
	Beginning STA	Ending STA	Side			
History: Ford Motor Company Assembly Plant	126+69.66	128+18.04	Right	Upgrading sidewalk; construction of handicap ramps and driveways; installation of lighting and landscaping; and modification of traffic signals	No	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource. Granite curbing will be used along Ponce de Leon Avenue within the historic resource ESAs. Any granite curbing removed will be replaced in-kind at a height equal to or greater than the existing granite curbing.
History: Midtown Historic District	105+65.83	118+60.12	Left	Upgrading sidewalk, handicap ramps and driveways; installation of lighting and landscaping; and modification of traffic signals	No	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource. Granite curbing will be used along Ponce de Leon Avenue within the historic resource ESAs. Any granite curbing removed will be replaced in-kind at a height equal to or greater than the existing granite curbing.
History: Virginia Highland Historic District	136+36.44	139+44.83	Left	Upgrading sidewalk; construction of handicap ramps and driveways; and installation of lighting and landscaping	No	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource. Granite curbing will be used along Ponce de Leon Avenue within the historic resource ESAs. Any granite curbing removed will be replaced in-kind at a height equal to or greater than the existing granite curbing.
History: Railroad Resources of the Atlanta BeltLine Northeast Quadrant	125+29.71	126+72.70	Both	Construction of stair and handicap ramp connection to BeltLine; construction of retaining walls and sidewalk; and installation of landscaping	No	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource. Granite curbing will be used along Ponce de Leon Avenue within the historic resource ESAs. Any granite curbing removed will be replaced in-kind at a height equal to or greater than the existing granite curbing.
History: Atlanta's Historic Apartment Complexes	135+72.85	137+35.16	Right	Upgrading sidewalk; construction of handicap ramps and driveway; and installation of lighting and landscaping	No	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource. Granite curbing will be used along Ponce de Leon Avenue within the historic resource ESAs. Any granite curbing removed will be replaced in-kind at a height equal to or greater than the existing granite curbing.
History: South of Ponce de Leon Historic District	135+72.85	137+72.85	Right	Upgrading sidewalk; construction of handicap ramps and driveways; and installation of lighting and landscaping	No	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource. Granite curbing will be used along Ponce de Leon Avenue within the historic resource ESAs. Any granite curbing removed will be replaced in-kind at a height equal to or greater than the existing granite curbing.
History: 790 Ponce de Leon Avenue	135+79.55	136+36.44	Left	Upgrading sidewalk; construction of driveway; and installation of landscaping	No	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource. Granite curbing will be used along Ponce de Leon Avenue within the historic resource ESAs. Any granite curbing removed will be replaced in-kind at a height equal to or greater than the existing granite curbing.
History: Ponce de Leon-Ralph McGill Historic District	117+33.42	129+76.83	Both	Upgrading sidewalk; construction of handicap ramps and driveways; installation of lighting and landscaping; and modification of traffic signals	No	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource. Granite curbing will be used along Ponce de Leon Avenue within the historic resource ESAs. Any granite curbing removed will be replaced in-kind at a height equal to or greater than the existing granite curbing.
History: Old Fourth Ward Historic District	106+22.63	117+01.60	Right	Upgrading sidewalk; construction of handicap ramps and driveways; installation of lighting and landscaping; and modification of traffic signals	No	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource. Granite curbing will be used along Ponce de Leon Avenue within the historic resource ESAs. Any granite curbing removed will be replaced in-kind at a height equal to or greater than the existing granite curbing.
Resource 1	105+80.06	141+33.57	Both	Construction of medians and installation of landscaping	No	In accordance with 36 CFR 800.13(a) Planning for Discovery, the Georgia Department of Transportation will ensure that an archaeologist who meets the Secretary of Interior's Guidelines for Professional Qualification Standards supervises the monitoring of all land disturbing activities including but not limited to excavation and drilling within the project's area of potential environmental effect. The monitoring will include the recovery, recording, and reporting of all subsurface archaeological features or concentrations located during construction. If any such features or concentrations are located during monitoring, the Contractor shall halt all land disturbing activity in the immediate vicinity of the resource(s) to provide no more than seven (7) calendar days time for the project archaeologist, in consultation with the State Historic Preservation Officer, to evaluate their significance by applying National Register criteria, and allowing for their proper excavation and recovery. The work stoppage will not exceed the minimum time necessary for completion of this work for each occurrence of significant archaeological resources (see Standard Specifications 2001, Section 107.13(A), paragraphs 4 and 5). The Contractor shall notify the project archaeologist a minimum of four (4) calendar days prior to ground disturbing on the above project at (404) 631-1085.
404 Permits and Variances (from Section D of the ECT)			Expiration dates (if applicable) Contact GDOT OES 6 months prior to expiration, if work will extend beyond this date.			
Notice of Intent (NOI) for NPDES			The Office of Bidding Administration and Construction Contractor will submit a NOI to the NPDES General Permit following award of the contract but prior to construction			

If there are no resources, indicate "None" in the first row. Include this table in the General Notes section of the plans as always.

ECT = Environmental Commitments Table, AKA "Green Sheet".

NOTE:

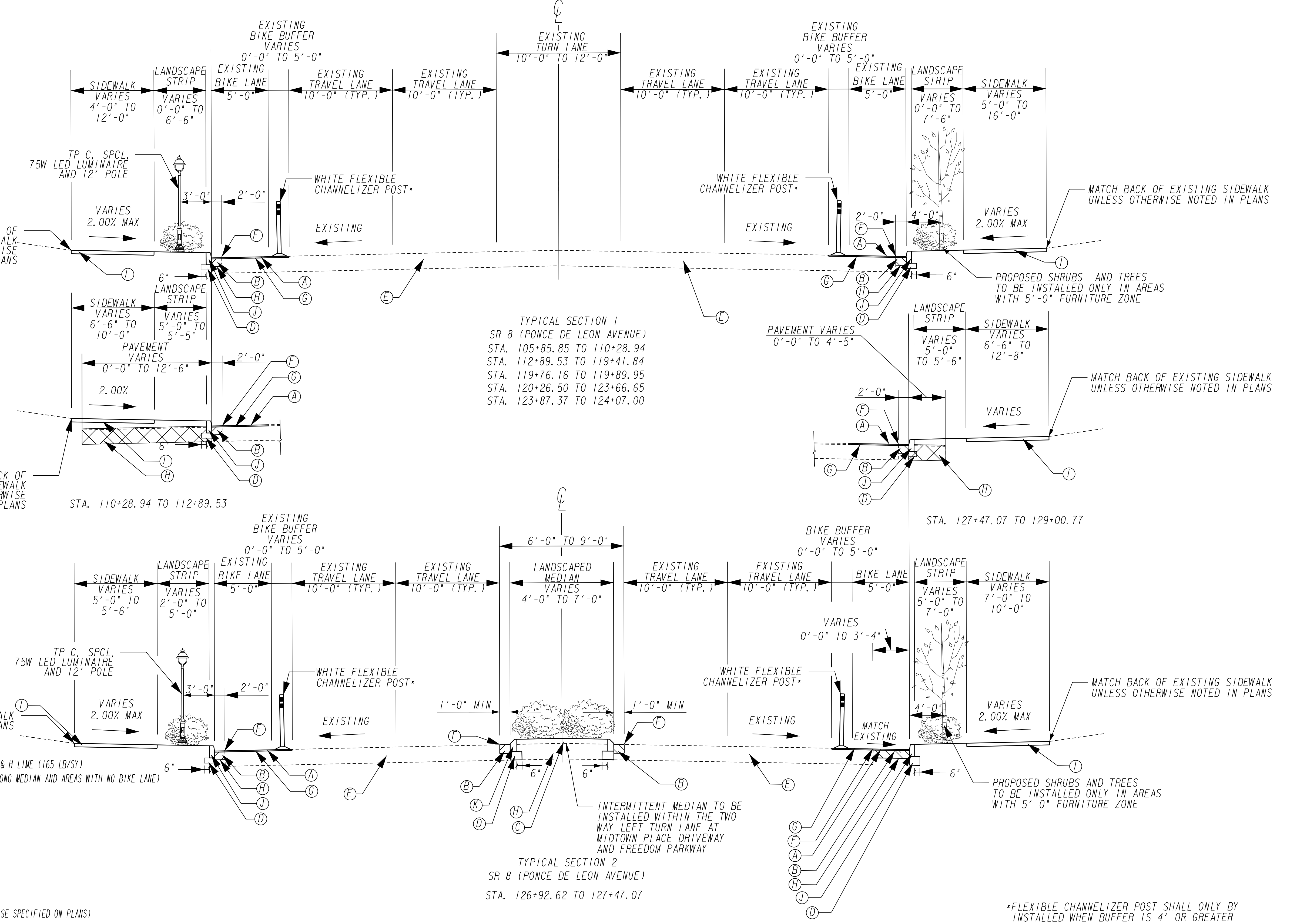
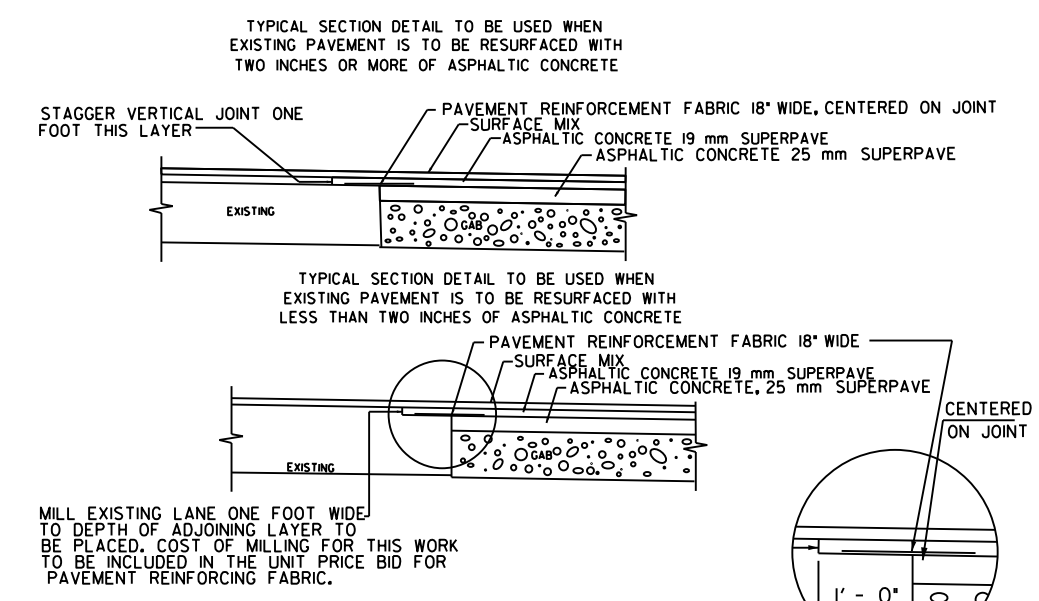
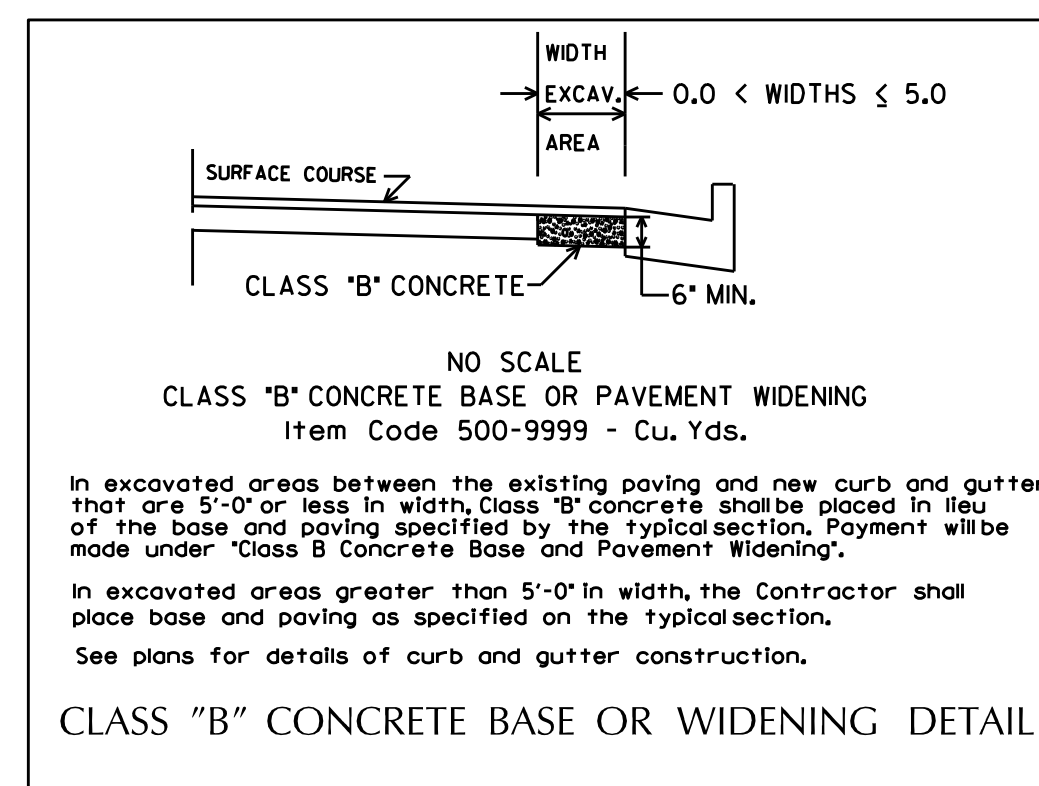
1. THE CONTRACTOR SHALL IMPLEMENT THE BEST POSSIBLE ENGINEERING AND MANAGEMENT CONTROLS TO ENSURE ADEQUATE PROTECTION OF EMPLOYEE SAFETY IN ACCORDANCE WITH GEORGIA'S RULES FOR HAZARDOUS WASTE MANAGEMENT.
2. ANY CONTAMINATED SOIL EXCAVATED DURING CONSTRUCTION ACTIVITIES MUST BE DISPOSED OF AT A PERMITTED LINED MUNICIPAL SOLID WASTE LANDFILL.
3. CONTRACTOR SHALL DIRECT ANY QUESTIONS REGARDING ELIGIBLE HISTORIC RESOURCES TO THE ENGINEER, AND THE ENGINEER SHALL CONTACT ENVIRONMENTAL SERVICES IF NECESSARY FOR RESOLUTION.



REVISION DATES

ATLANTA BELTLINE

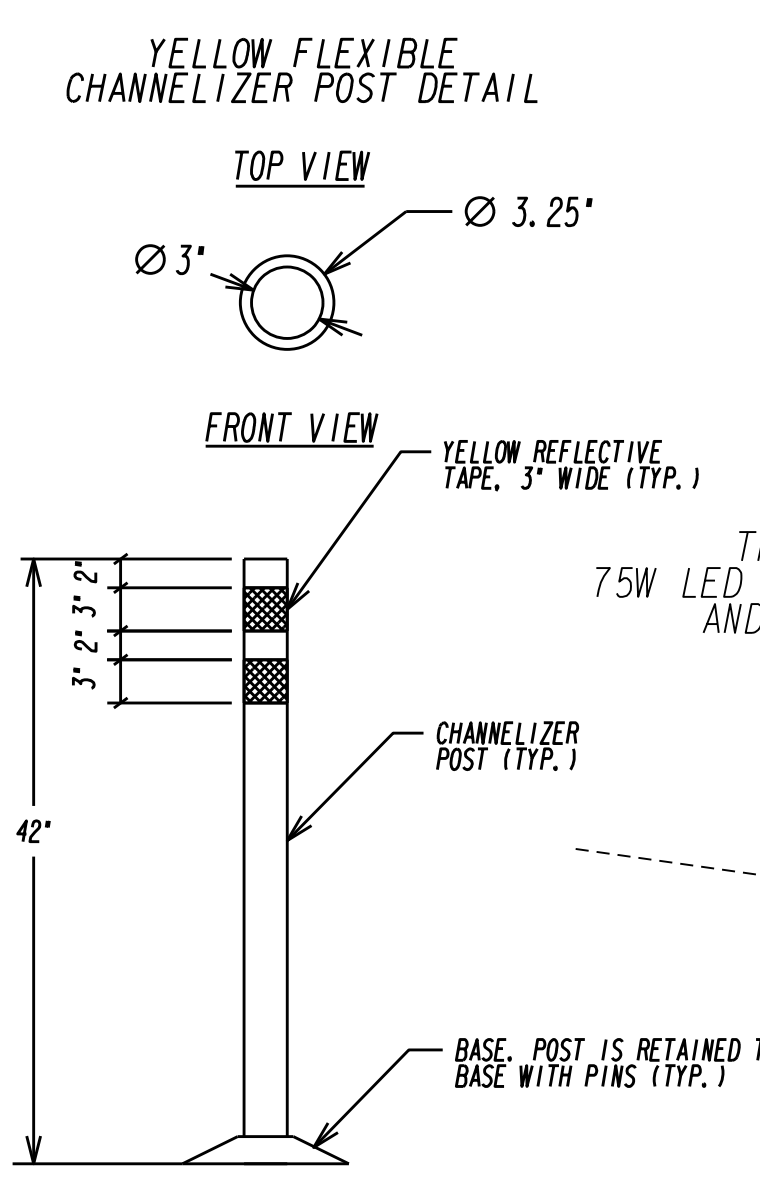
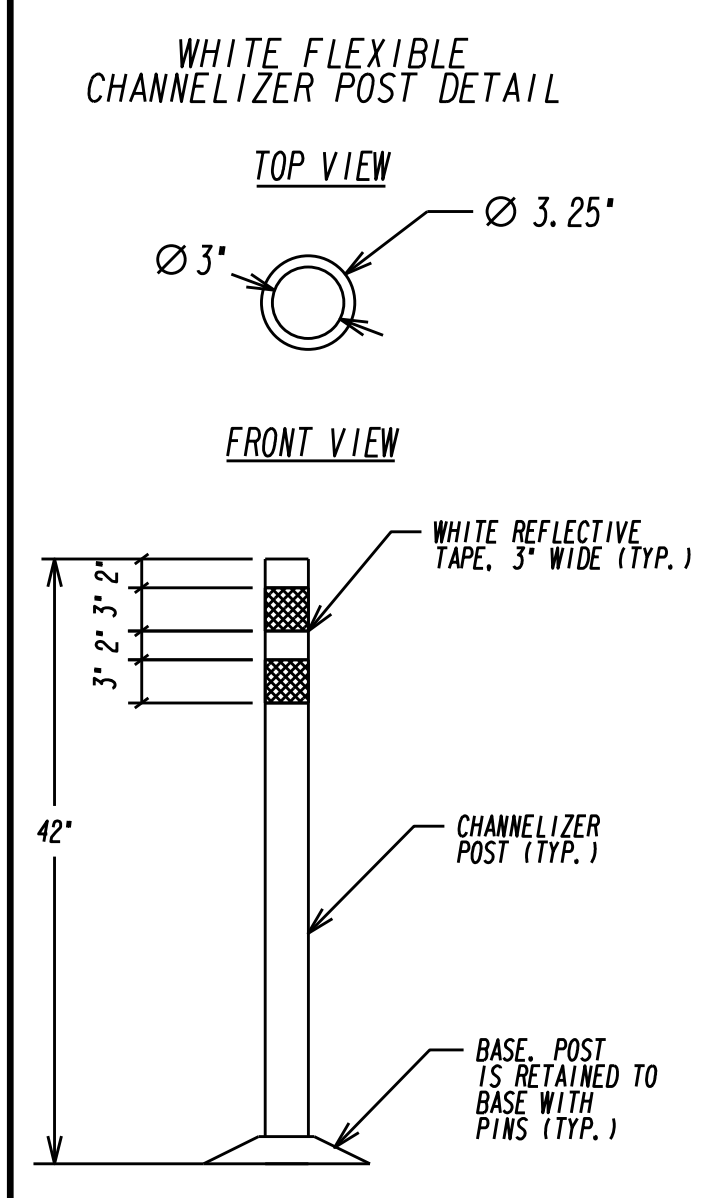
GENERAL NOTES



- REQUIRED PAVEMENT
- (A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SY)
 - (B) CLASS B CONC. BASE OR PVMT WIDENING, 6 IN (TO BE COLORED BLACK ALONG MEDIAN AND AREAS WITH NO BIKE LANE)
 - (C) TOP SOIL
 - (D) GR AGGR BASE CRS INCL MATL, 12"
 - (E) EXISTING PAVEMENT (TO BE RETAINED)
 - (F) PAVEMENT REINFORCING FABRIC STRIPS, TP 2, 18 INCH WIDTH
 - (G) MILL ASPH CONC PVMT, 1.50" IN DEPTH
 - (H) EXISTING PAVEMENT AND BASE (TO BE REMOVED)
 - (I) 4" CONC SIDEWALK
 - (J) STRAIGHT GRANITE CURB, 5IN X 17IN, TP A (6" EXPOSED UNLESS OTHERWISE SPECIFIED ON PLANS)
 - (K) STRAIGHT GRANITE CURB, 5IN X 17IN, TP A WITH TYPE 7 FACE (6" EXPOSED UNLESS OTHERWISE SPECIFIED ON PLANS)

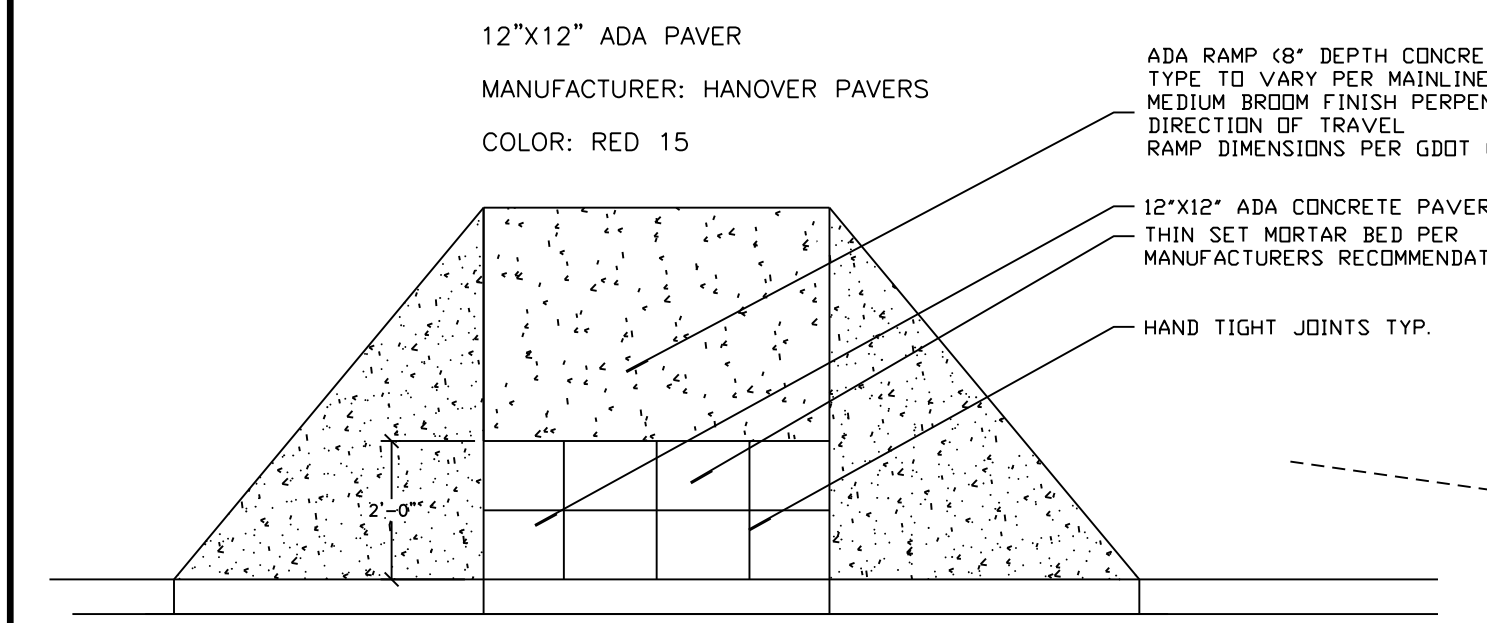
*FLEXIBLE CHANNELIZER POST SHALL ONLY BY INSTALLED WHEN BUFFER IS 4' OR GREATER

	<p>Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</p>	NO SCALE	REVISION DATES	ATLANTA BELTLINE
			TYPICAL SECTIONS	DRAWING No. 05-001

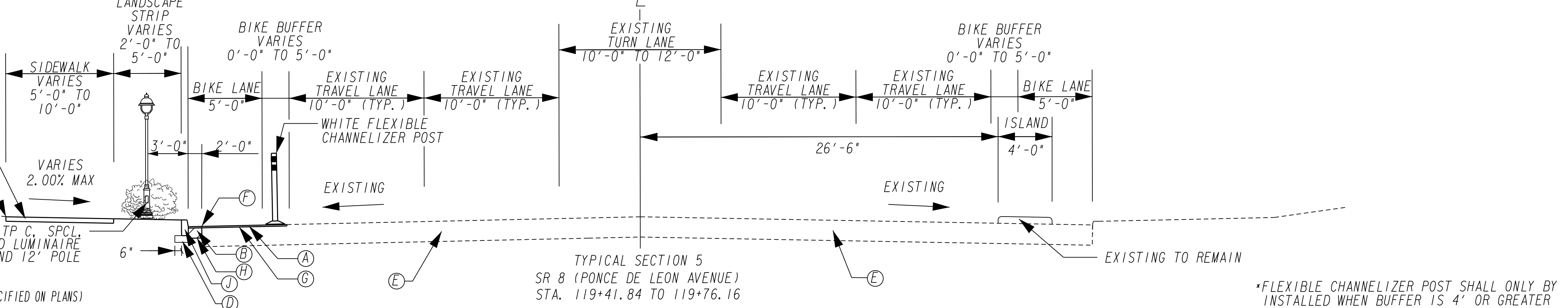
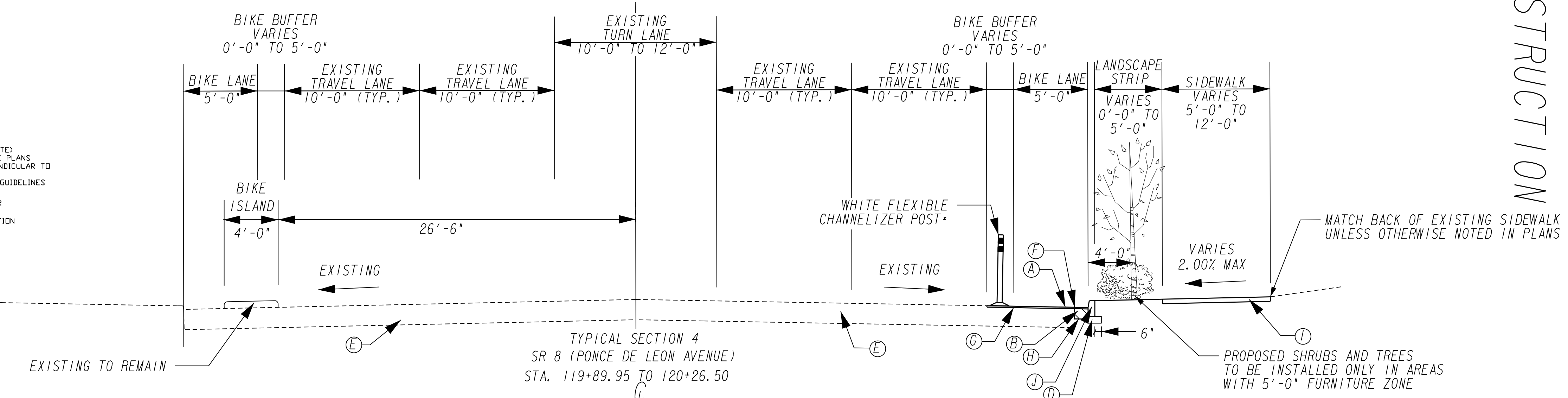
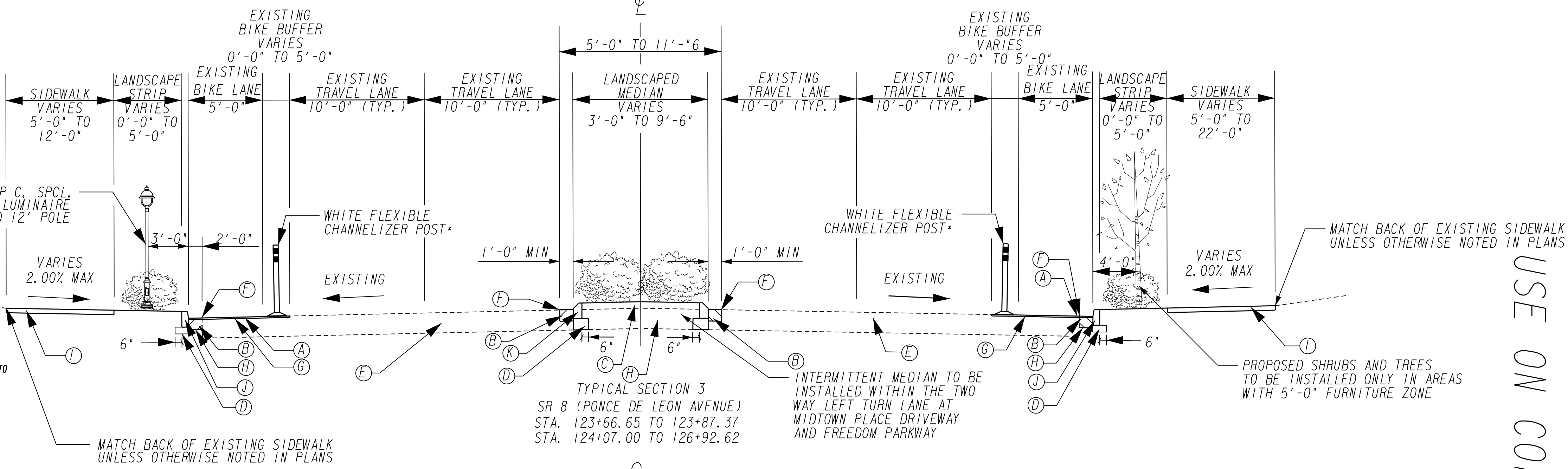


NOTES:
 1. INSTALL PER MANUFACTURERS SPECIFICATIONS.
 2. COLOR OF POST TO BE WHITE.
 3. SUGGESTED MANUFACTURERS INCLUDE: FILTRONA EXTRUSIONS, SAFE-HIT, CARSONITE COMPOSITES, OWICK KURB, BENT MANUFACTURING, OR IMPACT RECOVERY SYSTEMS.
 4. INSTALL FLEXIBLE CHANNELLIZER POSTS IN THE STRIPED BUFFER AREA 25' INTERVALS, NOT BLOCKING DRIVEWAYS, AND SET BACK 15' FROM DRIVEWAYS AND INTERSECTIONS.

NOTES:
 1. INSTALL PER MANUFACTURERS SPECIFICATIONS.
 2. COLOR OF POST TO BE YELLOW.
 3. SUGGESTED MANUFACTURERS INCLUDE: FILTRONA EXTRUSIONS, SAFE-HIT, CARSONITE COMPOSITES, OWICK KURB, BENT MANUFACTURING, OR IMPACT RECOVERY SYSTEMS.
 4. INSTALL FLEXIBLE CHANNELLIZER POSTS IN THE STRIPED BUFFER AREA 25' INTERVALS, NOT BLOCKING DRIVEWAYS, AND SET BACK 15' FROM DRIVEWAYS AND INTERSECTIONS.



- REQUIRED PAVEMENT
- (A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SY)
 - (B) CLASS B CONC. BASE OR PVMT WIDENING, 6IN (TO BE COLORED BLACK ALONG MEDIAN AND AREAS WITH NO BIKE LANE)
 - (C) TOP SOIL
 - (D) GR AGGR BASE CRS INCL MATL, 12"
 - (E) EXISTING PAVEMENT (TO BE RETAINED)
 - (F) PAVEMENT REINFORCING FABRIC STRIPS, TP 2, 18 INCH WIDTH
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 - (I) 4" CONC SIDEWALK
 - (J) STRAIGHT GRANITE CURB, 5IN X 17IN, TP A 16" EXPOSED UNLESS OTHERWISE SPECIFIED ON PLANS
 - (K) STRAIGHT GRANITE CURB, 5IN X 17IN, TP A WITH TYPE 7 FACE 16" EXPOSED UNLESS OTHERWISE SPECIFIED ON PLANS



USE ON CONSTRUCTION



Engineering, Planning, and Environmental Consultants
 817 W. Peachtree Street, NW
 Atlanta, Georgia 30308

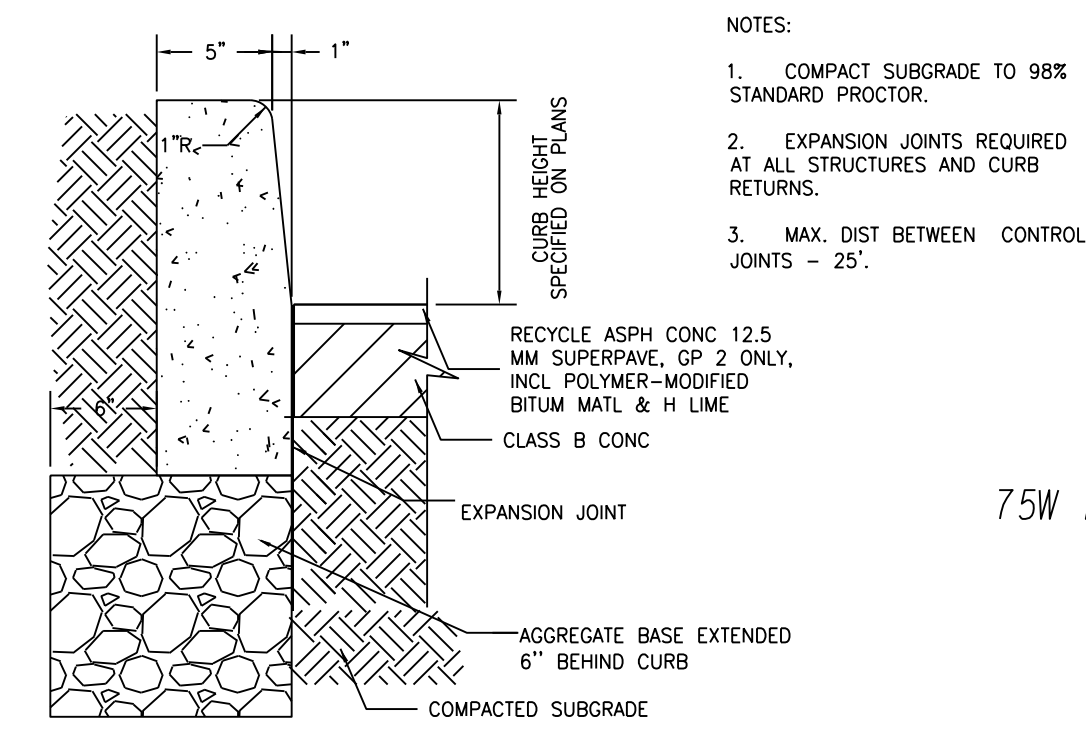
NO SCALE

REVISION DATES	
03/27/2020	

ATLANTA BELTLINE

TYPICAL SECTIONS

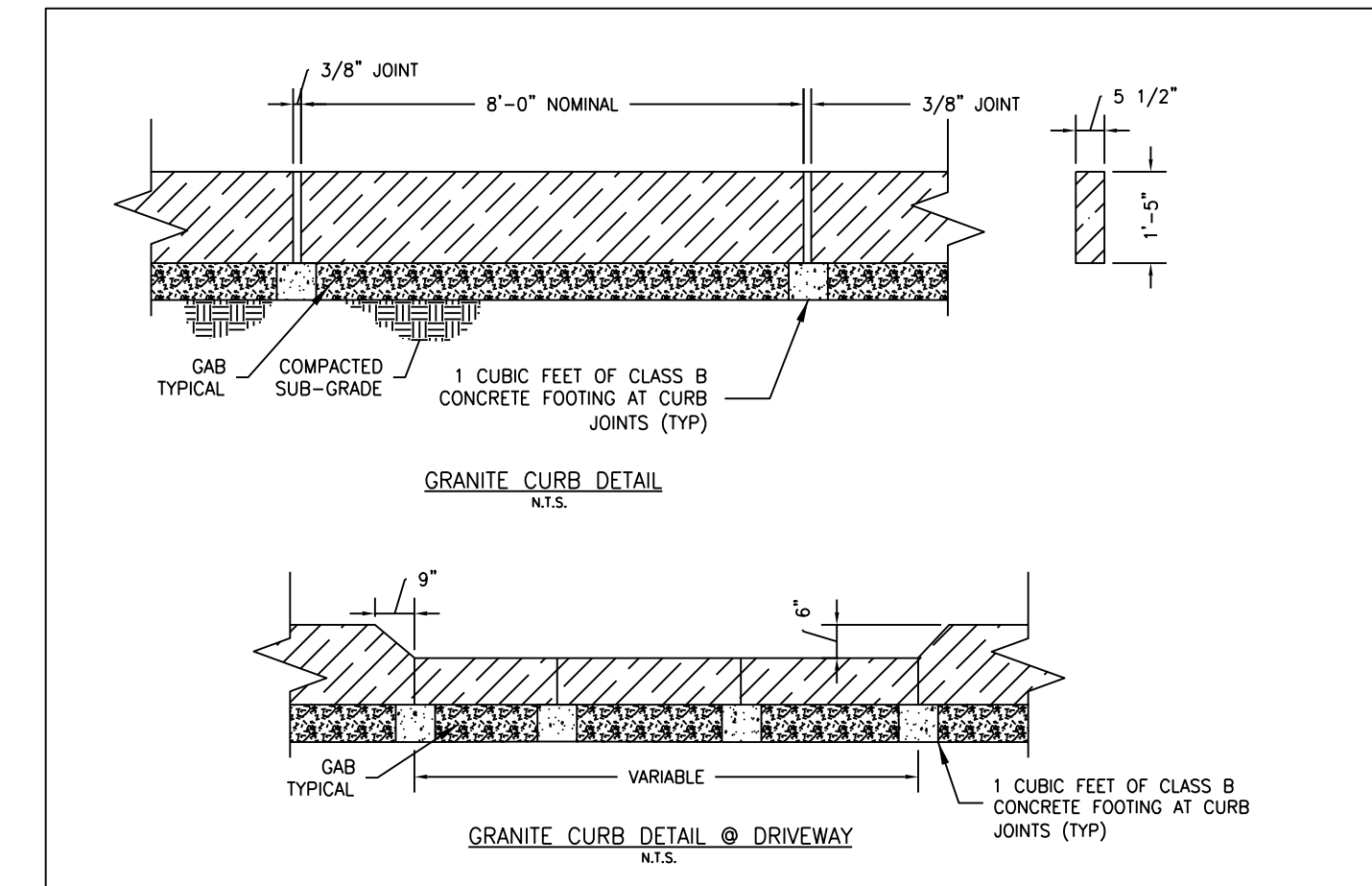
DRAWING No.
 05-002



- NOTES:
1. COMPACT SUBGRADE TO 98% STANDARD PROCTOR.
 2. EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND CURB RETURNS.
 3. MAX. DIST BETWEEN CONTROL JOINTS - 25'.

GRANITE HEADER CURB
SCALE: NTS

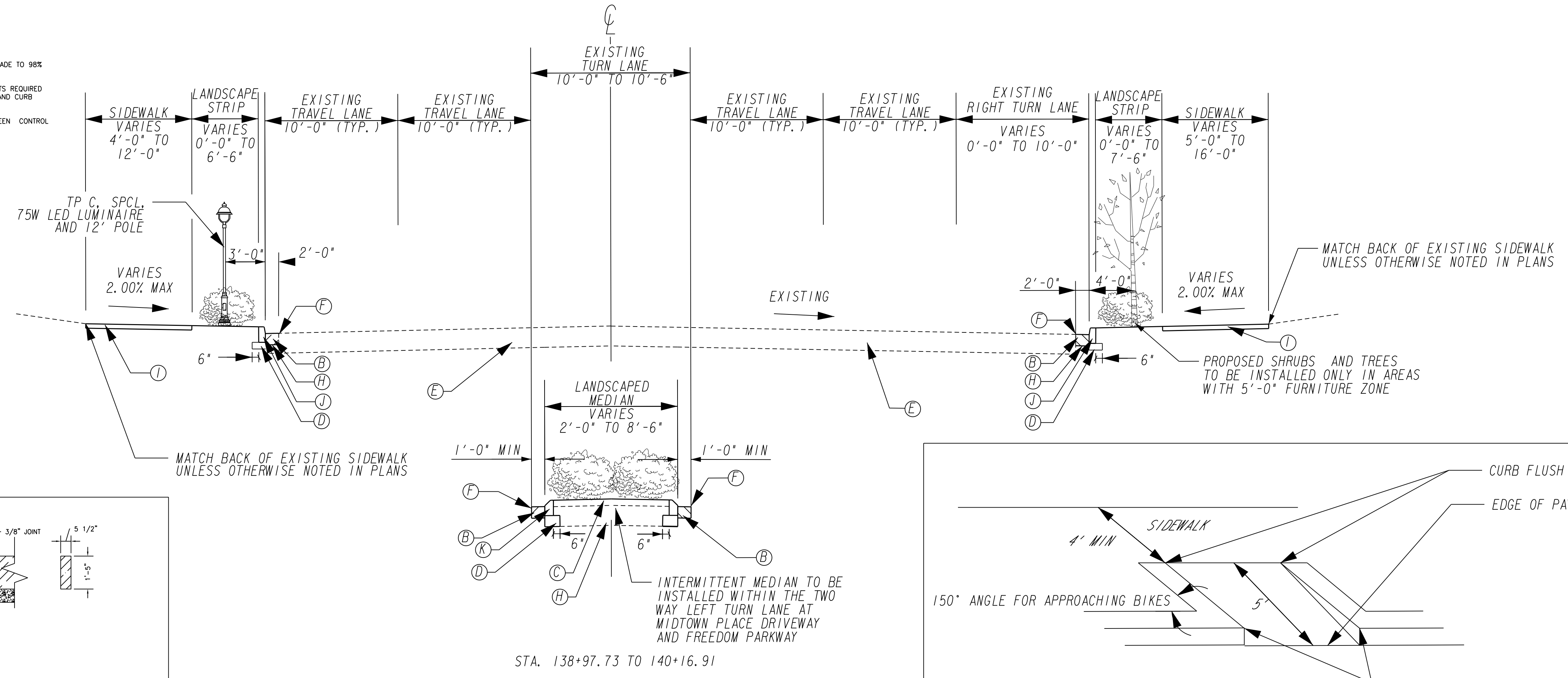
GRANITE CURB NOTES:
 SOURCE: ELBERTON, GA
 CONTRACTOR TO PROVIDE ROUGH FACE, ROUGH TOP CURBING ALONG ENTIRE STREETSCAPE EXCEPT AT HANDICAP CURB RAMP LOCATIONS WHERE THE CURBING SHALL BE SAW CUT TOP AND ROUGH FACED SIDES. ALL JOINTS TO BE GROUTED.



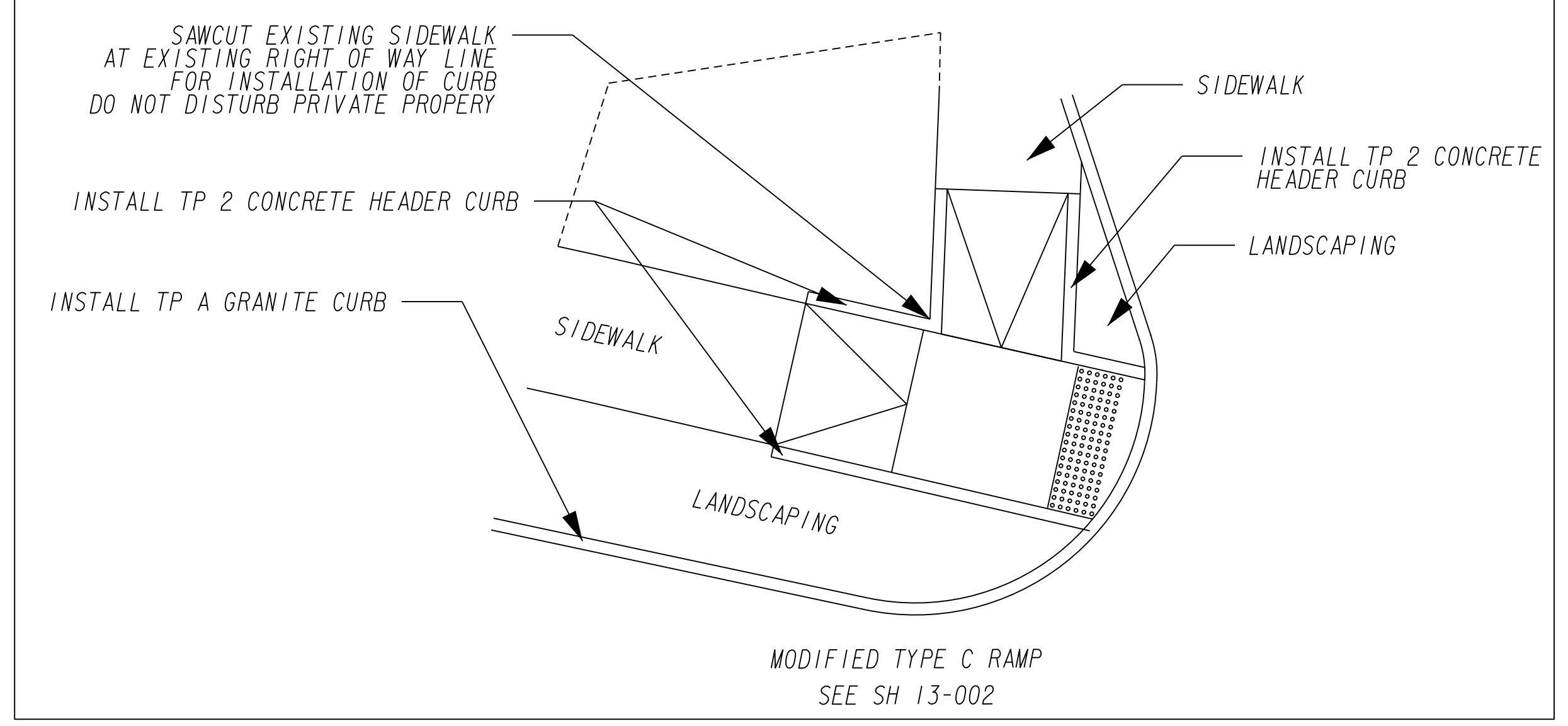
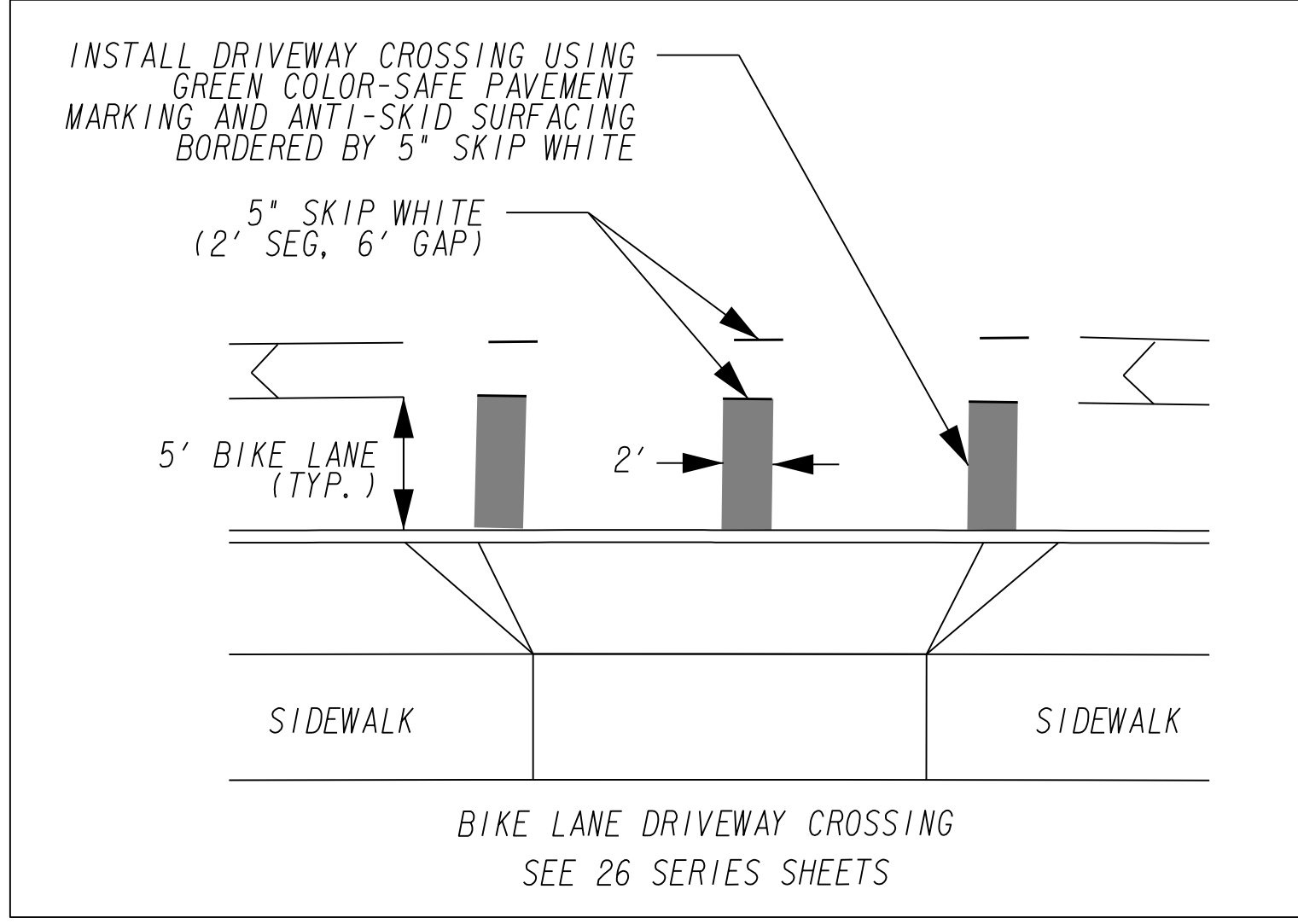
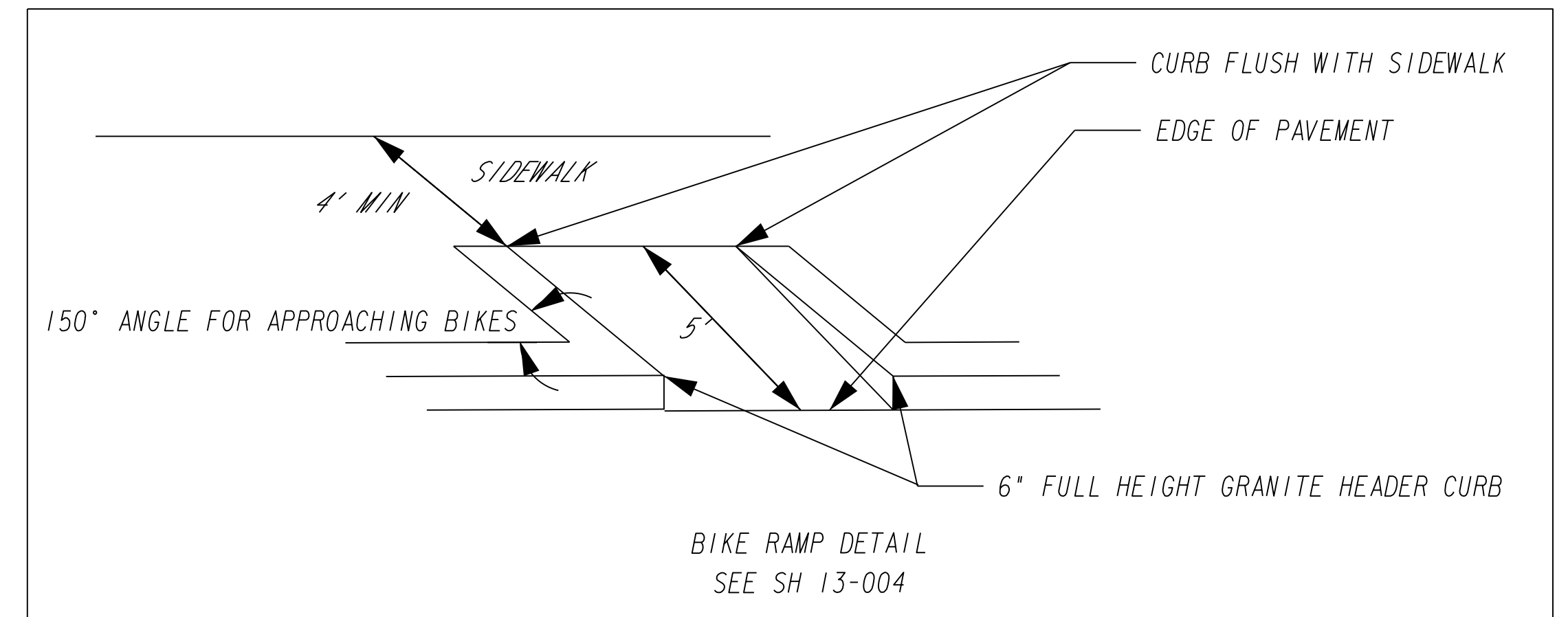
GRANITE CURB DETAIL N.T.S.
 GRANITE CURB DETAIL @ DRIVEWAY N.T.S.
 NOTE: CLASS B CONCRETE AND GRADED AGGREGATE BASE TO BE INCLUDED IN BID PRICE FOR GRANITE CURB

GRANITE CURB
SCALE: NTS

- REQUIRED PAVEMENT
- (A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SY)
 - (B) CLASS B CONC. BASE OR PYMT WIDENING, 6 IN (TO BE COLORED BLACK ALONG MEDIAN AND AREAS WITH NO BIKE LANE)
 - (C) TOP SOIL
 - (D) GR AGGR BASE CRS INCL MATL, 12"
 - (E) EXISTING PAVEMENT (TO BE RETAINED)
 - (F) PAVEMENT REINFORCING FABRIC STRIPS, TP 2, 18 INCH WIDTH
 - (G) MILL ASPH CONC PYMT, 1.50" IN DEPTH
 - (H) EXISTING PAVEMENT AND BASE (TO BE REMOVED)
 - (I) 4" CONC SIDEWALK
 - (J) STRAIGHT GRANITE CURB, 5IN X 17IN, TP A (6" EXPOSED UNLESS OTHERWISE SPECIFIED ON PLANS)
 - (K) STRAIGHT GRANITE CURB, 5IN X 17IN, TP A WITH TYPE 7 FACE (6" EXPOSED UNLESS OTHERWISE SPECIFIED ON PLANS)



TYPICAL SECTION 6
 SR 8 (PONCE DE LEON AVENUE)
 STA. 129+00.77 TO 138+97.73
 STA. 140+16.91 TO 141+42.21



NO SCALE

REVISION DATES	

ATLANTA BELTLINE

TYPICAL SECTIONS

DRAWING No.
 05-003

SUMMARY OF QUANTITIES

TRAFFIC CONTROL	
PROJECT NO. 0012586	LUMP SUM

GRADING COMPLETE	
PROJECT NO. 0012586	LUMP SUM

CONC SIDEWALK, 4 IN	
TOTAL	5803 SY

CONC SIDEWALK, 8 IN	
TOTAL	631 SY

CONCRETE HEADER CURB, 6 IN, TP 2	
TOTAL	356 LF

CONC CURB & GUTTER, 6 IN X 24 IN, TP 2	
TOTAL	492 LF

STRAIGHT GRANITE CURB, 5 IN X 17 IN, TP A	
TOTAL	5536 LF

CIRCULAR GRANITE CURB, 5 IN X 17 IN, TP A	
TOTAL	1989 LF

PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	
TOTAL	5312 LF

RIGHT OF WAY MARKERS	
TOTAL	105 EA

BICYCLE RACK-INVERTED "U" BIKE RACKS	
TOTAL	17 EA

BOLLARDS FLEXIBLE DELINEATOR POSTS	
TOTAL	71 EA

BOLLARD	
TOTAL	11 EA

GRANITE PAVERS	
TOTAL	107 SF

CONCRETE MEDIAN, 6 IN	
TOTAL	534 SY

GPS DATA COLLECTION AND SUBMITTAL	
LUMP SUM	

SURFACING QUANTITIES		
ITEMS	UNIT	TOTALS
RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	334
RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	26
GR AGGR BASE CRS, INCL MATL	TN	177
TACK COAT (0.05 GAL/SY SPREAD RATE)	GL	267
MILL ASPH CONC PVMT, 1 1/2 IN DEPTH	SY	2815
CLASS B CONC, BASE OR PVMT WIDENING	CY	304
RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME	TN	100
CONCRETE VALLEY GUTTER, 8 IN	SY	1021
DRIVEWAY CONCRETE, 8 IN	SY	1330
AGGR SURF CRS	TN	1200

DRIVEWAY QUANTITIES								
STATION	TYPE	MATERIAL	1/2 IN RECYCLED ASPH CONC 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (TN)	2 IN RECYCLED ASPH CONC 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (TN)	GR AGGR BASE CRS, INCL MATL (TN)	TACK COAT (GL)	CONCRETE VALLEY GUTTER, 8 IN (SY)	DRIVEWAY CONCRETE 8 IN (SY)
STA. 107+61 RT	COMMERCIAL	CONC					34	3
STA. 108+51 RT	COMMERCIAL	CONC					49	5
STA. 109+47 LT	COMMERCIAL	CONC					34	23
STA. 109+97 LT	COMMERCIAL	CONC					33	52
STA. 111+00 LT	COMMERCIAL	CONC						212
STA. 111+61 RT	COMMERCIAL	CONC					23	
STA. 112+30 LT	COMMERCIAL	CONC					50	56
STA. 112+56 RT	COMMERCIAL	CONC						59
STA. 113+14 LT	COMMERCIAL	CONC					45	48
STA. 113+97 RT	COMMERCIAL	CONC					21	
STA. 114+18 LT	COMMERCIAL	CONC					36	41
STA. 114+66 RT	COMMERCIAL	CONC					31	72
STA. 115+32 RT	COMMERCIAL	CONC					32	33
STA. 117+30 LT	COMMERCIAL	CONC					56	
STA. 117+83 LT	COMMERCIAL	CONC					20	
STA. 127+82 LT	COMMERCIAL	CONC					21	69
STA. 128+56 LT	COMMERCIAL	CONC					27	96
STA. 130+40 RT	COMMERCIAL	CONC					27	16
STA. 130+63 LT	COMMERCIAL	CONC					22	65
STA. 131+28 RT	COMMERCIAL	CONC					43	30
STA. 131+95 LT	COMMERCIAL	CONC					9	71
STA. 132+40 LT	COMMERCIAL	CONC					25	31
STA. 132+52 RT	COMMERCIAL	CONC					41	
STA. 132+94 RT	COMMERCIAL	CONC					67	96
STA. 133+02 LT	COMMERCIAL	CONC					26	
STA. 133+38 LT	COMMERCIAL	CONC					26	
STA. 134+08 LT	COMMERCIAL	CONC					26	17
STA. 134+64 LT	COMMERCIAL	CONC					24	
STA. 134+97 LT	COMMERCIAL	CONC					25	66
STA. 135+47 RT	COMMERCIAL	CONC					27	
STA. 135+52 LT	COMMERCIAL	CONC					25	
STA. 135+85 LT	COMMERCIAL	CONC					25	
STA. 136+06 RT	COMMERCIAL	CONC					29	30
STA. 136+63 LT	COMMERCIAL	CONC					42	
STA. 139+56 LT	COMMERCIAL	CONC						146
STA. 119+50 RT	COMMERCIAL	ASPH	5	8	32	10		
STA. 123+50 LT	COMMERCIAL	ASPH	11	18	74	24		
TOTAL			16	26	106	35	1021	1330

* THESE QUANTITIES ARE ADDED INTO THE SURFACING TABLE



REVISION DATES

ATLANTA BELTLINE

SUMMARY QUANTITIES

DRAWING No.
 06-001

SUMMARY OF DRAINAGE QUANTITIES

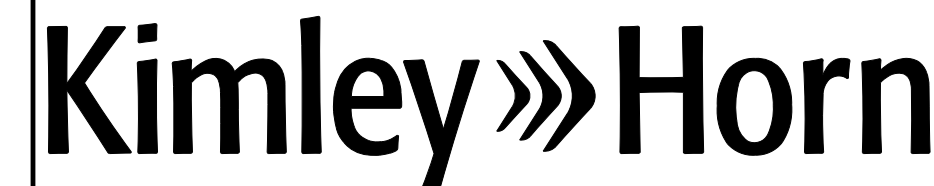
STRUCTURE NUMBER	LOCATION	ALLOWABLE PIPE MATERIALS SEE SHEET 4-003	DROP INLETS, GP 1						CATCH BASINS, GP 1			RECONSTRUCT MANHOLE	ADJUST CATCH BASIN TO GRADE	ADJUST DROP INLET TO GRADE	STN DUMPED RIP RAP, TP 1, 12 IN	STONE BLANKET PROTECTION, 6 INCHES	STN DUMPED RIP RAP, TP 3, 18 IN	FILTER FABRIC
			6A. STD. 1019 A TYPE 'E'	6A. STD. 1019 A DBL - TYPE 'E'	6A. STD. 1019 A	RECONSTR DROP INLET, GROUP 1	RECONSTR DROP INLET, GROUP 1	RECONSTR DROP INLET, DBL TP E	6A. STD. 1033 D	6A. STD. 1033 D	RECONSTRUCT CATCH BASIN							
			6'-0" OR LESS	6'-0" OR LESS	ADDL. DEPTH	EA	EA	EA	EA	EA	EA							
		H 1-10																
		STORM DRAIN (FEET)																
		18" 24"	EA	EA	LF	EA	EA	EA	LF	EA	EA	EA	EA	EA	SY	SY	SY	SY
B6	Sta. 110+98.83, 32.00' RT	13																
EX6	Sta. 110+82.23, 33.88' RT																	
EX7	Sta. 115+40.68, 32.06' LT																	
C4	Sta. 116+67.12, 32.75' RT	121																
EX8	Sta. 117+86.67, 34.00' RT																	
EX9	Sta. 120+22.32, 32.26' RT																	
EX10	Sta. 120+59.17, 32.00' RT	37																
EX11	Sta. 121+01.22, 32.00' RT																	
EX12	Sta. 121+39.57, 32.00' RT																	
EX13	Sta. 121+59.86, 32.00' RT																	
EX14	Sta. 121+90.57, 32.00' RT																	
EX23	Sta. 122+12.65, 31.71' RT																	
EX28	Sta. 138+18.58, 25.50' RT																	
EX29	Sta. 138+54.90, 27.22' RT																	
F25	Sta. 124+16.47, 29.13' LT	106																
EX22	Sta. 123+13.37, 28.84' LT																	
F24	Sta. 127+58.88, 26.38' RT	5																
EX25	Sta. 127+58.88, 30.00' RT																	
EX15	Sta. 120+61.57, 34.63' LT																	
EX24	Sta. 126+86.21, 27.68' LT																	
EX26	Sta. 133+70.75, 21.87' RT																	
EX27	Sta. 133+81.38, 21.88' LT																	
TOTAL		282						3	11	1	2	1	3	5	5	3648	3653	

LANDSCAPING

LAGERSTROEMIA FAURIEI 'SARA'S FAVORITE'	TOTAL	2	EA
MULLENBERGIA CAPILLARIS-'AUTUMN GLOW' TM	TOTAL	53	EA
LAGERSTROEMIA INDICA 'SIOUX'	TOTAL	5	EA
PENNISETUM SP- ALOPECUROIDES 'LITTLE BUNNY'	TOTAL	120	EA
LAGERSTROEMIA S 'MIAMI'	TOTAL	13	EA
AC NATIVE RESTORATION AND RIPARIAN SEEDING	TOTAL	1	AC
QUERCUS PHELLOS 'HIGHTOWER'	TOTAL	8	EA
PHLOX SUBULATA 'MCDANIELS CUSHION'	TOTAL	69	EA
ULMUS AMERICANA 'PRINCETON'	TOTAL	13	EA
SCHIZACHYRIUM SCOPARIUM 'LITTLE BLUESTEM GRASS'	TOTAL	836	EA
ULMUS PARVIFOLIA 'EMER II'	TOTAL	19	EA
SISYRINCHIUM ANGUSTIFOLIUM 'NARROWLEAF BLUESTEM GRASS'	TOTAL	3684	EA
ITEA VIRGINICA 'HENRY'S GARNET'	TOTAL	6	EA
GELSEMIUM SEMPERVIRENS 'JESSAMINE'	TOTAL	19	EA
RHODOENDRON MINUS	TOTAL	8	EA
SOD	TOTAL	525	SY
RHUS AROMATICA 'GRO-LOW'	TOTAL	23	EA
ITS	PULLBOX, TYPE 2	2	EA
IIEX VOMITORIA 'STOKES DWARF'	TOTAL	348	EA
CONDUIT, RIGID, 2 IN, WITH WEATHERHEAD	TOTAL	120	LF
JUNIPERUS CONFERTA 'BLUE PACIFIC'	TOTAL	52	EA
CONDUIT, NONMETAL, TP 2, 2"	TOTAL	80	LF
PITTIOSPORUM TOBIRA 'WHEELERS DWARF'	TOTAL	193	EA
OSP FIBER OPTIC CABLE, DROP, SINGLE MODE, 12 FIBER	TOTAL	870	LF
RHAPHIOLEPIS INDICA 'GEORGIA PETITE'	TOTAL	386	EA
FIBER OPTIC SPLICE, FUSION	TOTAL	16	EA
ROSA 'MEIGALPIO' PLANT PATENT *17,877	TOTAL	256	EA
DRYOPTERIS CARTHUSIANA	TOTAL	556	EA
ERAGROSTIS ELLIOTTI 'WIND DANCER'	TOTAL	19	EA

LIGHTING

ITEM	UNIT	TOTAL
TYPE C, SPCL, 75W LED LUMINAIRE AND 12' POLE COMPLETE	EA	74
ELECTRICAL JUNCTION BOX, CONC GROUND MOUNTED	EA	74
SVC POLE RISER - 100A/2P, 1/2" V/I φ SWITCHED LOAD CENTER WITH METER, LOAD CENTER AND CONCRETE BASE	EA	1
CABLE, TP XHHW, AWG NO 1/0	LF	600
CONDUIT, NONMETAL, TP 2, 2 1/2 IN	LF	200
CABLE, TP XHHW, AWG NO 6	LF	22500
CONDUIT, NONMETAL, TP 2, 2 IN	LF	7500



Engineering, Planning, and Environmental Consultants
 817 W. Peachtree Street, NW
 Atlanta, Georgia 30308

REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE

SUMMARY QUANTITIES

DRAWING No.
06-002

SUMMARY OF QUANTITIES - STANDARD SIGNS

STATION	INSTL. NO.	SIGN CODE	HIGHWAY SIGNS						POST											
			TP 1 MATL. REFL SHEETING TP 9			TP 1 MATL. REFL SHEETING TP 11			TP 2 MATL. REFL SHEETING TP 11			TYPE 7			TYPE 8			TYPE 9		
			SIZE	QUANTITY	SQUARE FEET	SIZE	QUANTITY	SQUARE FEET	SIZE	QUANTITY	SQUARE FEET	LENGTH (FEET)	QUANTITY	TOTAL LENGTH	LENGTH (FEET)	QUANTITY	TOTAL LENGTH	LENGTH (FEET)	QUANTITY	TOTAL LENGTH
STA. 107+42.00	1	R5-1	36X36	1	9								13	1	13					
STA. 107+49.81	2	R1-2				36 TRI	1	4					13	1	13					
STA. 107+84.57	3	R560-5	18X24	1	3						12	1	12							
STA. 107+76.00	4	R1-1				36-OCT	1	9					14.5	1	14.5					
	5	R3-2	24X24	1	4															
STA. 108+10.00	6	R4-4	36X30	1	7.5						12.5	1	12.5							
STA. 108+76.00	7	R1-1				36-OCT	1	9					13	1	13					
STA. 109+33.98	8	R1-1				36-OCT	1	9					13	1	13					
STA. 109+84.00	9	R1-1				36-OCT	1	9					13	1	13					
STA. 110+61.92	10	R1-1				36-OCT	1	9					13	1	13					
STA. 110+86.06	11	R1-1				36-OCT	1	9					13	1	13					
STA. 112+12.50	12	R1-1				36-OCT	1	9					13	1	13					
STA. 112+71.31	13	R1-1				36-OCT	1	9					13	1	13					
STA. 112+87.48	14	R1-1				36-OCT	1	9					13	1	13					
STA. 113+20.00	15	R10-6	24X30	1	5						12.5	1	12.5							
STA. 113+80.00	16	R10-6	24X30	1	5						12.5	1	12.5							
STA. 114+04.93	17	R1-1				36-OCT	1	9					13	1	13					
STA. 114+42.96	18	R1-1				36-OCT	1	9					13	1	13					
STA. 114+79.91	19	R1-1				36-OCT	1	9					13	1	13					
STA. 115+50.00	20	R1-1				36-OCT	1	9					13	1	13					
STA. 116+51.00	21	R10-15	30X30	1	6.25						12.5	1	12.5							
STA. 118+72.42	22	R1-1				36-OCT	1	9					15	1	15					
	23	R3-2	24X24	1	4															
	24	R5-1	36X36	1	9															
STA. 118+98.00	25	R5-1	36X36	1	9								13	1	13					
STA. 119+00.00	26	R3-1	24X24	1	4						12	1	12							
STA. 119+04.00	27	R10-15	30X30	1	6.25						12.5	1	12.5							
STA. 119+32.00	28	R5-1	36X36	1	9								13	1	13					
STA. 119+68.24	29	R3-2	36X36	1	9								13	1	13					
STA. 119+59.04	30	R1-1				36-OCT	1	9					13	1	13					
STA. 119+82.87	31	R1-1				36-OCT	1	9					13	1	13					
STA. 120+13.50	32	R1-1	36X36	1	9	36-OCT	1	9					13	1	13					
STA. 120+23.26	33	R5-1	36X36	1	9	36-OCT	1	9					13	1	13					
STA. 120+76.00	34	R10-15	30X30	1	9						12.5	1	12.5							
STA. 123+22.00	35	R4-7	24X30	1	5						12.5	1	12.5							
STA. 124+12.00	36	R5-1	36X36	1	9								13	1	13					
STA. 125+70.00	37	R6-2R	18X24	1	3						12	1	12							
STA. 125+82.85	38	R1-1				36-OCT	1	9					15	1	15					
	39	R3-2	24X24	1	4															
STA. 127+37.50	40	R4-7	24X30	1	5						12.5	1	12.5							
STA. 127+50.00	41	R3-17	24X18	1	3						12.5	1	12.5							
	42	R3-17BP	24X8	1	2															
STA. 127+72.58	43	R1-1				36-OCT	1	9					13	1	13					
STA. 128+77.70	44	QUEUE	18X24	1	3						12	1	12							
STA. 129+77.50	45	R4-11	30X30	1	6.25						12.5	1	12.5							
STA. 130+53.41	46	ENTER ONLY	24X30	1	5						12.5	1	12.5							
	47	ENTER ONLY	24X30	1	5															
STA. 131+00.00	48	R3-17	24X18	1	3						12.5	1	12.5							
	49	R3-17A9	24X8	1	2															
STA. 131+40.17	50	R1-1				36-OCT	1	9					15	1	15					
	51	EXIT ONLY	24X30	1	5															
	52	EXIT ONLY	24X30	1	5															
STA. 132+10.00	53	R1-1				36-OCT	1	9					15	1	15					
	54	EXIT ONLY	24X30	1	5															
	55	EXIT ONLY	24X30	1	5															
STA. 132+54.00	56	ENTER ONLY	24X30	1	5						12.5	1	12.5							
	57	ENTER ONLY	24X30	1	5															



REVISION DATES

ATLANTA BELTLINE

SUMMARY QUANTITIES

DRAWING No. 06-003

SUMMARY OF QUANTITIES - STANDARD SIGNS (CONT'D)

STATION	INSTL. NO.	SIGN CODE	HIGHWAY SIGNS										POST							
			TP 1 MATL. REFL SHEETING TP 9			TP 1 MATL. REFL SHEETING TP 11			TP 2 MATL. REFL SHEETING TP 11			TYPE 7		TYPE 8		TYPE 9				
			SIZE	QUANTITY	SQUARE FEET	SIZE	QUANTITY	SQUARE FEET	SIZE	QUANTITY	SQUARE FEET	LENGTH (FEET)	QUANTITY	TOTAL LENGTH	LENGTH (FEET)	QUANTITY	TOTAL LENGTH	LENGTH (FEET)	QUANTITY	TOTAL LENGTH
STA. 133+21.00	58	R1-1				36-OCT	1	9								13	1	13		
STA. 133+77.74	59	R1-1				36-OCT	1	9								13	1	13		
STA. 134+85.00	60	R1-1				36-OCT	1	9								13	1	13		
STA. 135+57.00	61	R1-1				36-OCT	1	9								15	1	15		
STA. 137+54.50	62	R1-1				36-OCT	1	9								13	1	13		
STA. 137+72.87	63	R1-1				36-OCT	1	9								13	1	13		
STA. 139+10.00	64	R4-7	24X30	1	5							12.5	1	12.5						
STA. 139+33.29	65	R1-1				36-OCT	1	9								13	1	13		
STA. 139+00.00	66	R6-2R	24X30	1	5							12.5	1	12.5						
STA. 137+76.00	67	R5-1	36X36	1	9											13	1	13		
STA. 140+05.00	68	R4-7	24X30	1	5							12.5	1	12.5						
PONCE DE LEON	69	D3-1 *1									114X18	4	24							
MONROE DR	70	D3-1 *2									180X18	1	22.5							
	71	D3-1 *3									180X18	1	22.5							
BOULEVARD	72	D3-1 *4									90X18	1	11.25							
	73	D3-1 *5									90X18	1	11.25							
GLEN IRIIS DR	74	D3-1 *2									108X18	1	22.5							
	75	D3-1 *3									108X18	1	22.5							
PONCE PLACE	76	D3-1 *2									108X18	1	22.5							
	77	D3-1 *3									108X18	1	22.5							
TOTAL					227			265					182		248			480		

SIGNING AND MARKING

THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE		
TOTAL	4616	GLF
THERMOPLASTIC TRAF STRIPING, WHITE		
QUANTITY	590	SY
THERMOPLASTIC TRAF STRIPING, YELLOW		
QUANTITY	23	SY
TRAFFIC STRIPE, GREEN		
TOTAL	468	SY
THERMOPLASTIC PVMT MARKING, ARROW, TP 1		
TOTAL	36	EA
THERMOPLASTIC PVMT MARKING, ARROW, TP 2		
TOTAL	2	EA
THERMOPLASTIC PVMT MARKING, SYMBOL, TP 4		
TOTAL	28	EA

THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE		
QUANTITY	1518	LF
THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW		
QUANTITY	2104	LF
THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE		
QUANTITY	650	LF
THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE		
QUANTITY	6794	LF
PREFORMED PLASTIC SOLID PVMT MKG, 11 IN, CONTRAST (BLACK-WHITE), TP PB		
QUANTITY	1771	LF
PREFORMED PLASTIC SOLID PVMT MKG, 24 IN, WHITE, TP PB		
QUANTITY	186	LF
PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-YELLOW), TP PB		
QUANTITY	139	LF
PREFORMED PLASTIC SOLID PVMT MKG, CONTRAST (BLACK-YELLOW), TP PB		
QUANTITY	10	SY
PREFORMED PLASTIC SOLID PVMT MKG, CONTRAST (BLACK-WHITE), TP PB		
QUANTITY	5	SY

EROSION CONTROL

CONSTRUCT AND REMOVE TEMPORARY SEDIMENT BARRIER OR BALED STRAW CHECK DAM		
TOTAL	9	EA
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP		
TOTAL	31	EA
MAINTENANCE OF TEMPORARY SILT FENCE, TP C		
TOTAL	1875	LF
MAINTENANCE OF CHECK DAMS- ALL TYPES		
TOTAL	9	EA
MAINTENANCE OF INLET SEDIMENT TRAP		
TOTAL	31	EA
WATER QUALITY MONITORING, SAMPLING AND REPORTING		
TOTAL	12	EA
WATER QUALITY INSPECTIONS		
TOTAL	12	MO
TEMPORARY SILT FENCE, TYPE C		
TOTAL	3750	LF
BARRIER FENCE, ORANGE (4 FT)		
TOTAL	3923	LF

REVISION DATES

ATLANTA BELTLINE

SUMMARY QUANTITIES



EROSION CONTROL (CONT'D)

WOOD FIBER BLANKET (4:1 SLOPES)		
TOTAL	120	SY

GRASSING

ITEM	UNIT	TOTAL
TEMPORARY GRASSING	ACRES	3
PERMANENT GRASSING	ACRES	3
MULCH	TN	85
AGRICULTURAL LIME	TN	2
FERTILIZER MIXED GRADE	TN	1
FERTILIZER NITROGEN CONTENT	LBS	50

TRAFFIC SIGNALS

STEEL STRAIN POLE, TP IV, w/ 25' MAST ARM (BLACK POWDER COATED)		
TOTAL	1	EA
STEEL STRAIN POLE, TP IV, w/ 40' MAST ARM (BLACK POWDER COATED)		
TOTAL	1	EA
STEEL STRAIN POLE, TP IV, w/ 45' MAST ARM (BLACK POWDER COATED)		
TOTAL	3	EA
STEEL STRAIN POLE, TP IV, w/ 50' MAST ARM (BLACK POWDER COATED)		
TOTAL	3	EA
STEEL STRAIN POLE, TP IV, w/ 55' MAST ARM (BLACK POWDER COATED)		
TOTAL	1	EA
STEEL STRAIN POLE, TP IV, w/ 60' AND 65' MAST ARMS (BLACK POWDER COATED)		
TOTAL	1	EA
STEEL STRAIN POLE, TP IV, w/ 30' MAST ARM w/ LUMINAIRE ARM (BLACK POWDER COATED)		
TOTAL	1	EA
STEEL STRAIN POLE, TP IV, w/ 50' MAST ARM w/ LUMINAIRE ARM (BLACK POWDER COATED)		
TOTAL	1	EA
STEEL STRAIN POLE, TP IV, w/ 55' AND 65' MAST ARMS w/ LUMINAIRE ARM (BLACK POWDER COATED)		
TOTAL	1	EA

TRAFFIC SIGNAL INSTALLATION - NO. 1	
LUMP SUM	
TRAFFIC SIGNAL INSTALLATION - NO. 2	
LUMP SUM	
TRAFFIC SIGNAL INSTALLATION - NO. 3	
LUMP SUM	
TRAFFIC SIGNAL INSTALLATION - NO. 4	
LUMP SUM	
DIRECTIONAL BORE- 3 IN	
TOTAL	1480 LF
DIRECTIONAL BORE- 5 IN	
TOTAL	790 LF
DIRECTIONAL BORE- 7 IN	
TOTAL	180 LF
DIRECTIONAL BORE- 9 IN	
TOTAL	295 LF
PULL BOX, PB-5	
TOTAL	4 EA
MICROWAVE RADAR DETECTION ASSEMBLY	
TOTAL	6 EA
UTILITY ADJUSTMENTS	
CLASS B CONCRETE (FOR THRUST RESTRAINTS)	
TOTAL	1.8 CY
REMOVE WATER METER	
TOTAL	2 EA
ADJUST HYDRANT TO GRADE	
TOTAL	1 EA
ADJUST WATER METER BOX TO GRADE	
TOTAL	43 EA
ADJUST WATER VALVE BOX TO GRADE	
TOTAL	16 EA
ADJUST WATER METER VAULT TO GRADE	
TOTAL	1 EA
WATER MAIN, 6 IN	
TOTAL	150 LF
8 IN WATER MAIN REALIGNMENT	
TOTAL	20 LF

WATER METER	
TOTAL	2 EA
GATE VALVE, 6 IN	
TOTAL	9 EA
ABANDONMENT OF WATER VALVES	
TOTAL	9 EA
FIRE HYDRANT	
TOTAL	9 EA
WATER SERVICE LINE, ¾ IN	
TOTAL	420 LF
RELOCATE EXISTING WATER METER, INCL BOX	
TOTAL	11 EA
REMOVE EXISTING FIRE HYDRANT	
TOTAL	9 EA
ADJUST MANHOLE TO GRADE	
TOTAL	3 EA
ADJUST MINOR STRUCTURE TO GRADE (SANITARY SEWER CLEANOUT)	
TOTAL	5 EA

ATLANTA BELTLINE CONNECTION

SUMMARY OF QUANTITIES- SEATWALL

ITEMS	QUANTITY	UNIT	AS DIRECTED	TOTAL
CLASS A CONCRETE, RETAINING WALL	1.5	CY	1.5	3
GRANITE FACING	46.5	SF	5.5	52

*SEE SHEET 13-008 AND 38-002 FOR DETAIL

SUMMARY OF QUANTITIES- LOW WALL

ITEMS	QUANTITY	UNIT	AS DIRECTED	TOTAL
CLASS A CONCRETE, RETAINING WALL	5.5	CY	1	5
GRANITE FACING	52	SF	5	102

*SEE SHEET 13-008 AND 38-002 FOR DETAIL

SUMMARY OF QUANTITIES- CONCRETE STEPS

ITEMS	QUANTITY	UNIT	AS DIRECTED	TOTAL
CLASS A CONCRETE, INCL REINF STEEL	3	CY	1	4

*SEE SHEET 13-008 AND 38-002 FOR DETAIL

CONCRETE CURB, 4"	
TOTAL	124 LF
PLAIN CONC DITCH PAVING, 4 IN	
TOTAL	50 SY
HANDRAIL SPECIAL DESIGN	
TOTAL	743 LF

SUMMARY OF QUANTITIES- ATLANTA BELTLINE RAMP CONNECTION

ITEMS	ELEVATED WALKWAY NO. 1	STAIRS NO. 1	UNIT	TOTAL
BRIDGE EXCAVATION, GRADE SEPARATION	153	21	CY	174
CLASS AA CONCRETE	44	6	CY	50
STR STEEL, BR. NO 1 - ELEVATED WALKWAY	LUMP (74910 LBS)		LS	LUMP
STR STEEL, BR. NO 2 - STAIRS		LUMP (8140 LBS)		LUMP
BAR REINF STEEL	11743	1334	LB	13077
42" METAL SAFETY RAIL	577	73	LF	650

SUMMARY OF QUANTITIES- WALL NO. 1

ITEMS	QUANTITY	UNIT
CLASS B CONCRETE, RETAINING WALL	10	CY
GRANITE FACING	80	SF

SUMMARY OF QUANTITIES- WALL NO. 2

ITEMS	QUANTITY	UNIT
CLASS A CONCRETE, INCL REINF STEEL	16	CY
PILOT HOLES	620	LF
42" METAL SAFETY RAIL	174	LF
PERMANENTLY ANCHORED WALL, NO. 2	1	LS
GRANITE FACING	3604	SF

SUMMARY OF QUANTITIES- WALL NO. 3

ITEMS	QUANTITY	UNIT
PERMANENTLY ANCHORED WALL, NO. 3	1	LS
PILOT HOLES	220	LF
42" METAL SAFETY RAIL	36	LF

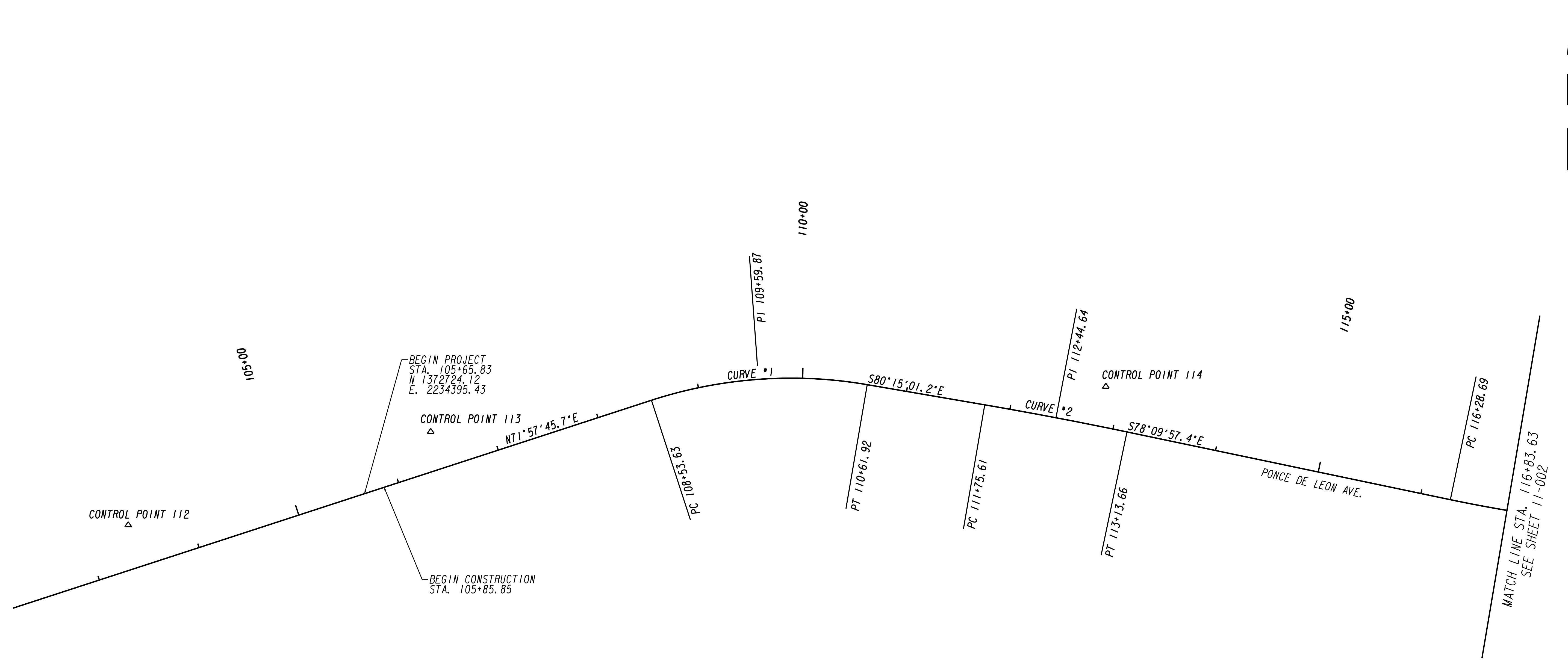
SUMMARY OF QUANTITIES- WALL NO. 4

ITEMS	QUANTITY	UNIT
PERMANENTLY ANCHORED WALL, NO. 4	1	LS
PILOT HOLES	60	LF
42" METAL SAFETY RAIL	15	LF

SUMMARY OF QUANTITIES- WALL NO. 5

ITEMS	QUANTITY	UNIT
PERMANENTLY ANCHORED WALL, NO. 5	1	LS
PILOT HOLES	60	LF

	 <p>Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</p>	REVISION DATES _____ _____ _____ _____ _____ _____	ATLANTA BELTLINE SUMMARY QUANTITIES
		DRAWING No. 06-005	

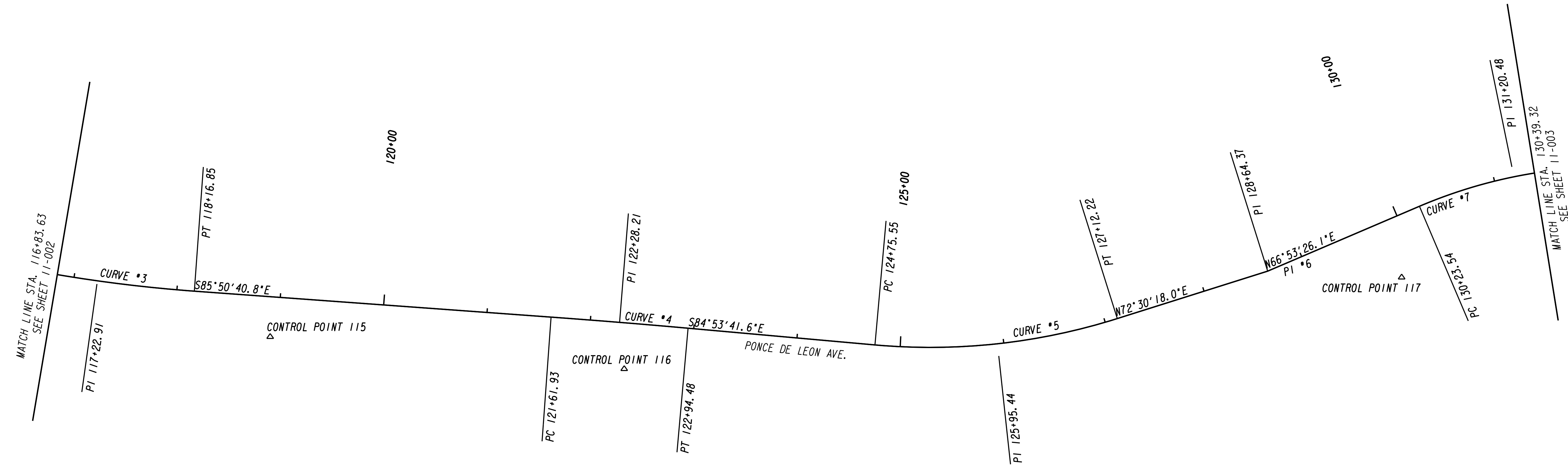


CONTROL POINTS						
PT. #	NORTH	EAST	ELEVATION	STATION	OFFSET	DESCRIPTION
112	1372695.0612	2234170.0719	962.015	103+42.62	42.15'	PK NAIL SET
113	1372783.8590	2234458.5200	951.525	106+44.39	37.27'	NGS PAN AM
114	1372826.9043	2235102.1785	932.393	112+85.15	38.92'	PK NAIL SET

<p>Curve # 1 PI Sta: 109+59.87 N: 1372846.10 E: 2234770.03 DELTA: 27°47'13.1" (RT) D: 13°20'24.40" T: 106.24 L: 208.30 R: 429.50 E: 12.94</p>	<p>Curve # 2 PI Sta: 112+44.64 N: 1372797.17 E: 2235054.82 DELTA: 02°05'03.8" (RT) D: 01°30'35.89" T: 69.03 L: 138.04 R: 3794.50 E: 0.63</p>
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PI* 6
 PI Sta* 128+64.37
 N* 1372711.56
 E* 2236652.43
 DELTA* 05°36'51.9" (LT)

Curve* 7
 PI Sta* 131+20.48
 N* 1372812.08
 E* 2236887.98
 DELTA* 23°04'03.1" (RT)
 D* 12°03'44.17"
 T* 96.93
 L* 191.24
 R* 475.00
 E* 9.79

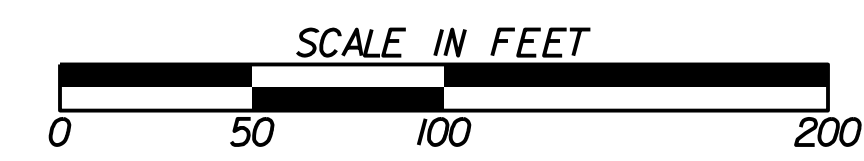


CONTROL POINTS						
PT. #	NORTH	EAST	ELEVATION	STATION	OFFSET	DESCRIPTION
115	1372649.1316	2235690.0399	898.689	118+92.91	37.71'	PK NAIL SET
116	1372617.9690	2236031.6152	893.018	122+36.26	43.70'	NGS SEARS
117	1372706.2054	2236871.6227	922.451	129+81.10	55.63'	PK NAIL SET

Curve* 3
 PI Sta* 117+22.91
 N* 1372699.09
 E* 2235522.93
 DELTA* 07°40'43.4" (LT)
 D* 04°04'51.23"
 T* 94.22
 L* 188.16
 R* 1404.00
 E* 3.16

Curve* 4
 PI Sta* 122+28.21
 N* 1372662.45
 E* 2236027.19
 DELTA* 00°56'59.2" (RT)
 D* 00°42'59.60"
 T* 66.28
 L* 132.55
 R* 7996.00
 E* 0.27

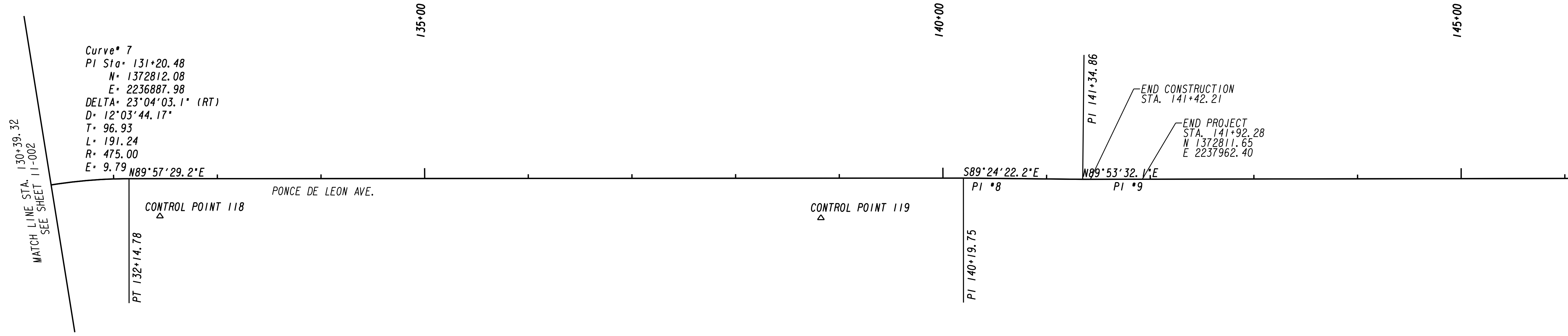
Curve* 5
 PI Sta* 125+95.44
 N* 1372629.77
 E* 2236392.96
 DELTA* 22°36'00.5" (LT)
 D* 09°32'57.47"
 T* 119.89
 L* 236.67
 R* 600.00
 E* 11.86



REVISION DATES		

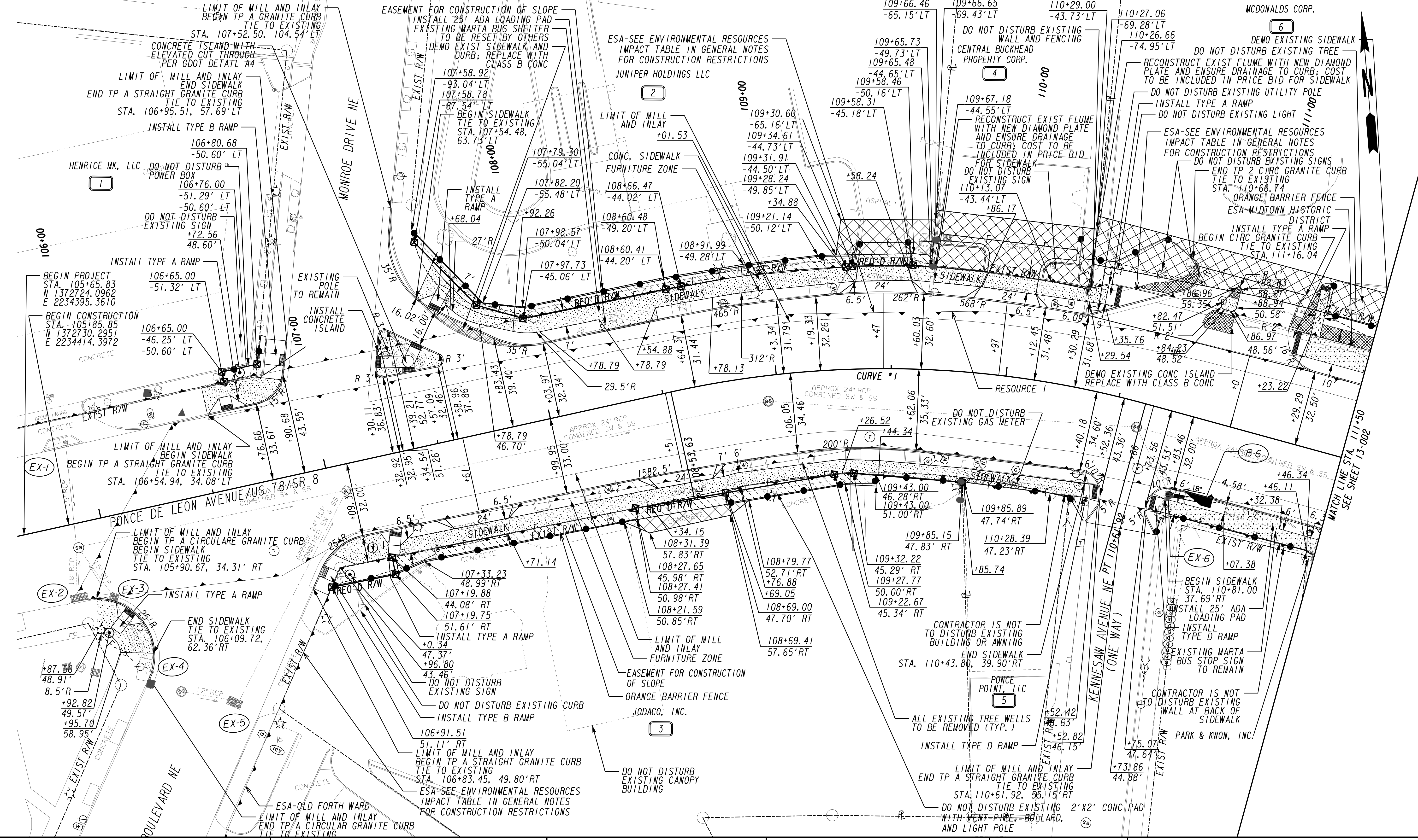
ATLANTA BELTLINE
CONSTRUCTION LAYOUT

DRAWING No.
11-002



PI #8
 PI Sta 140+19.75
 N= 1372812.73
 E= 2237789.88
 DELTA= 00°38'08.6" (RT)

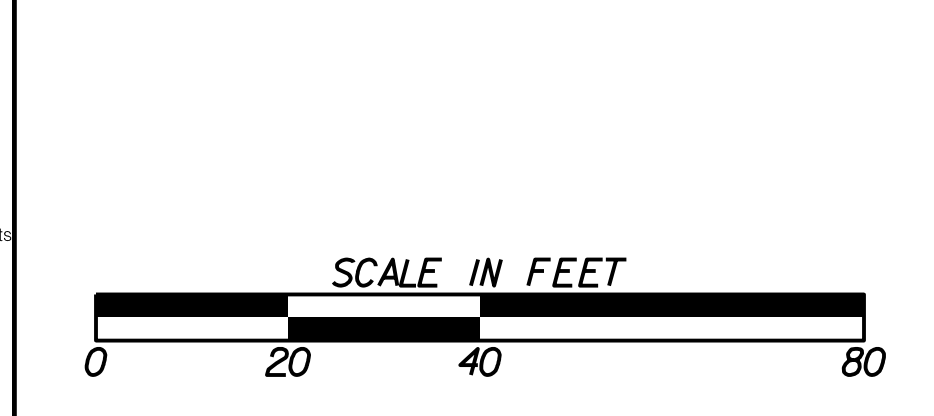
PI #9
 PI Sta 141+34.86
 N= 1372811.54
 E= 2237904.68
 DELTA= 00°42'05.7" (LT)



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	---

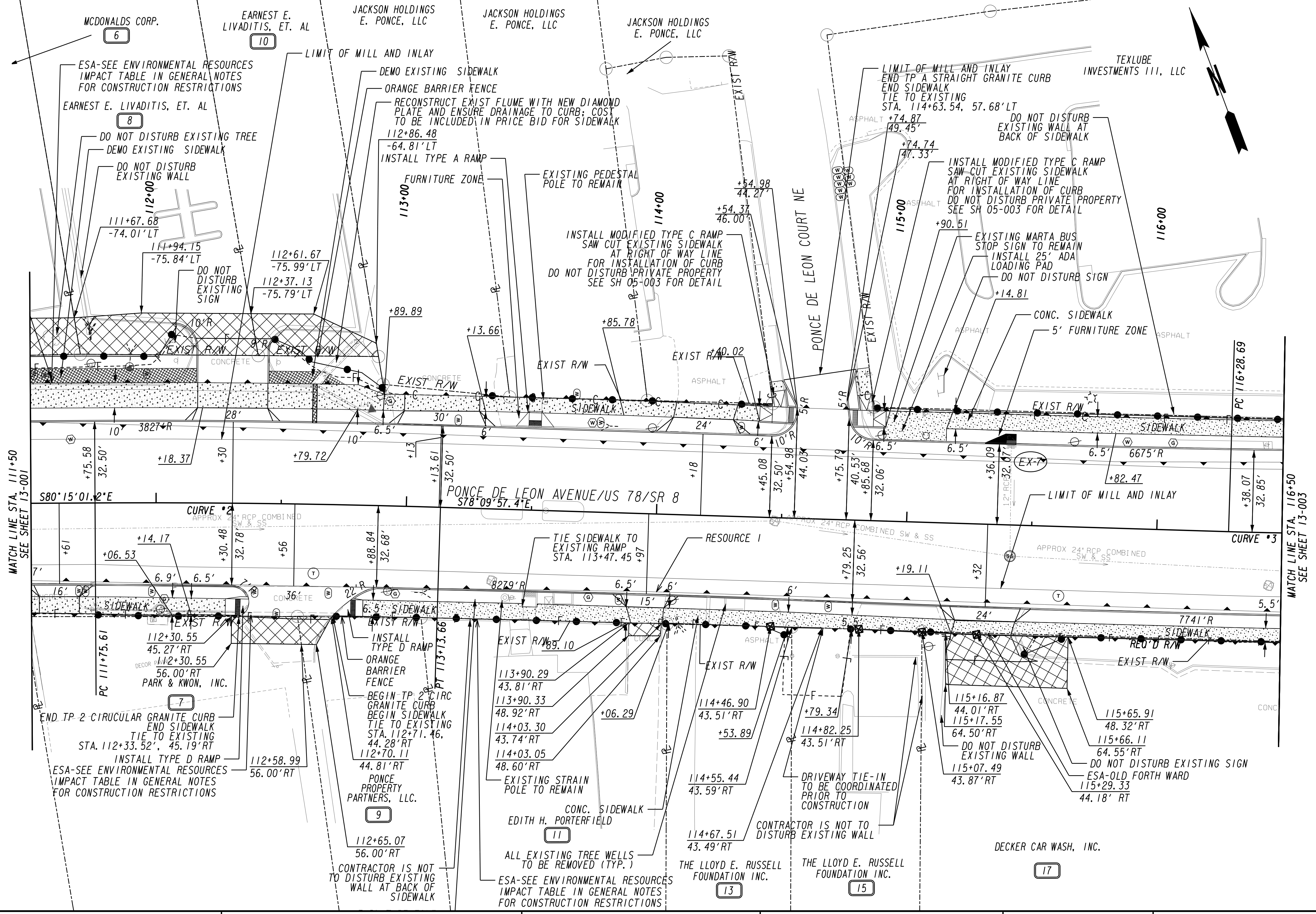
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REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

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REVISION DATES

ATLANTA BELTLINE
 OFFICE:
MAINLINE PLAN
 DRAWING No. 13-001



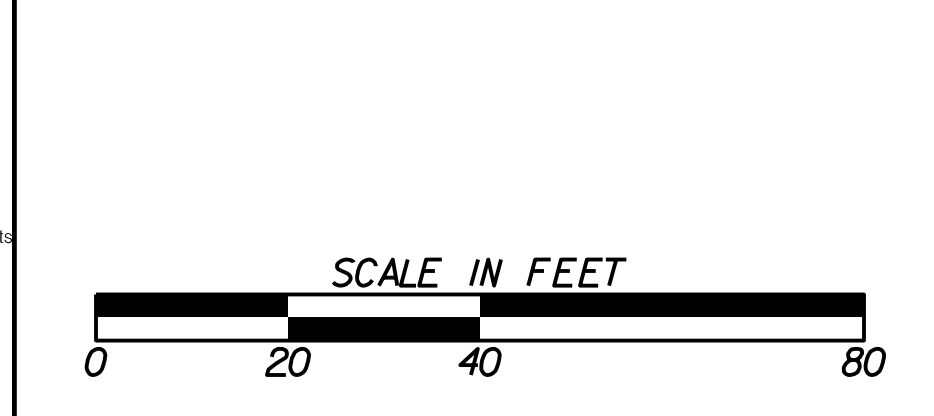
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 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
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 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

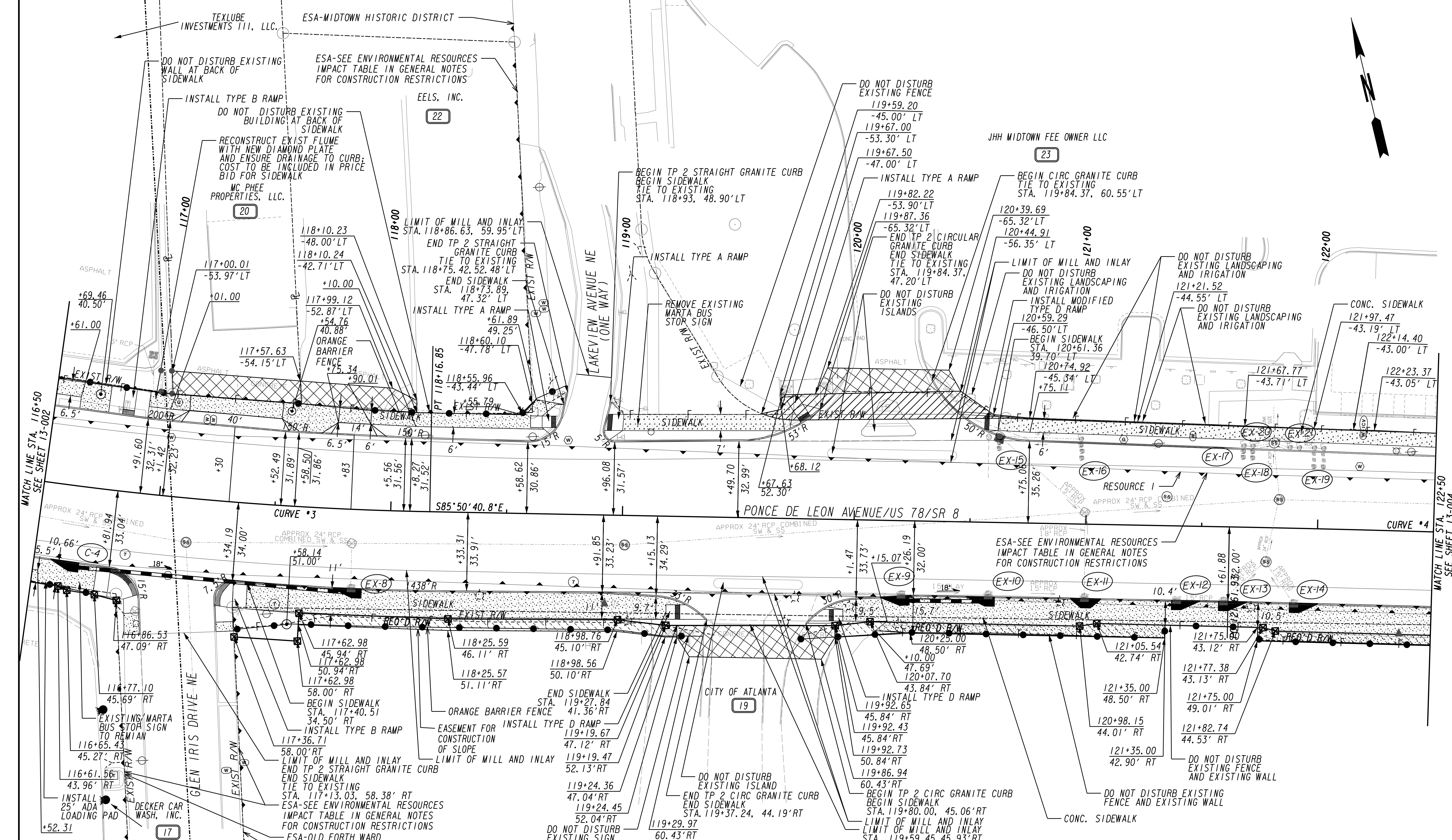
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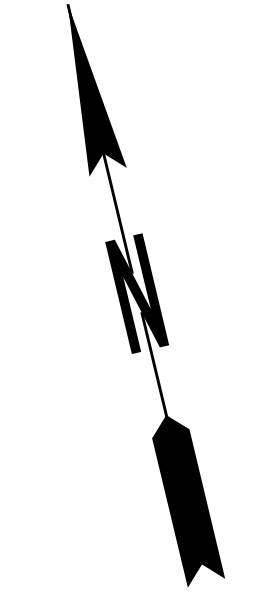
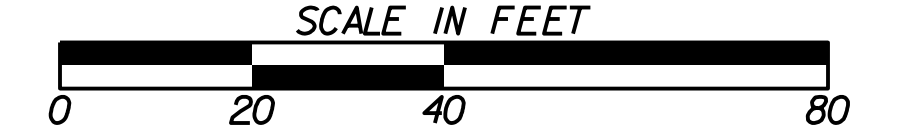


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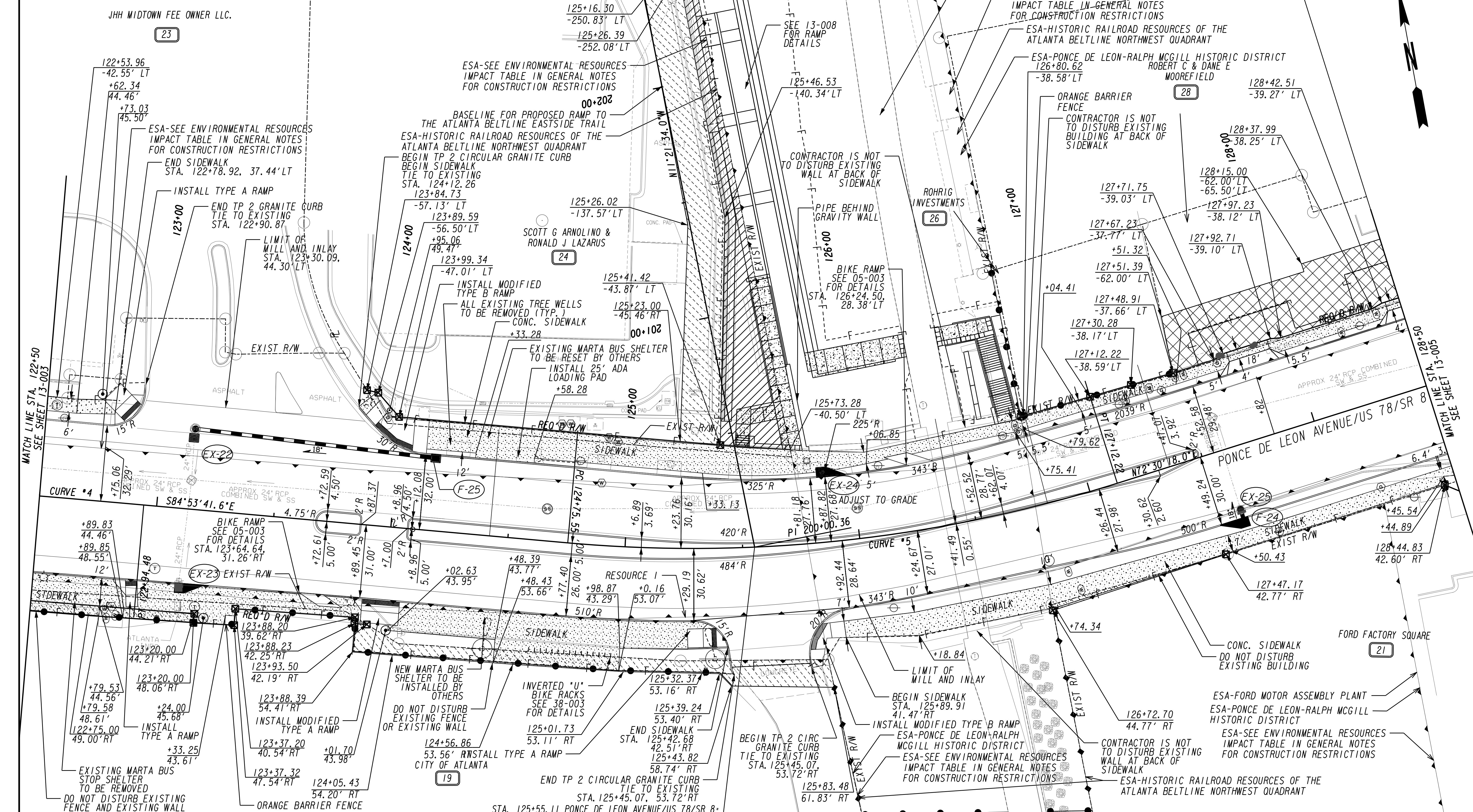
ATLANTA BELTLINE
MAINLINE PLAN
 DRAWING No. 13-002



<p>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>	<p>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)</p>	<p>Atlanta BeltLine Kimley»Horn Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</p>	<p>REVISION DATES</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>									<p>ATLANTA BELTLINE MAINLINE PLAN DRAWING No. 13-003</p>

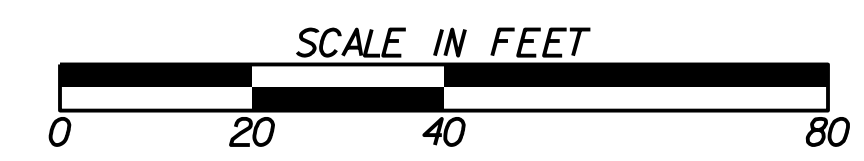


NOTE:
 1. SEE SHEET 13-008 FOR SPECIFIC DETAILS REGARDING RAMP SURROUNDINGS



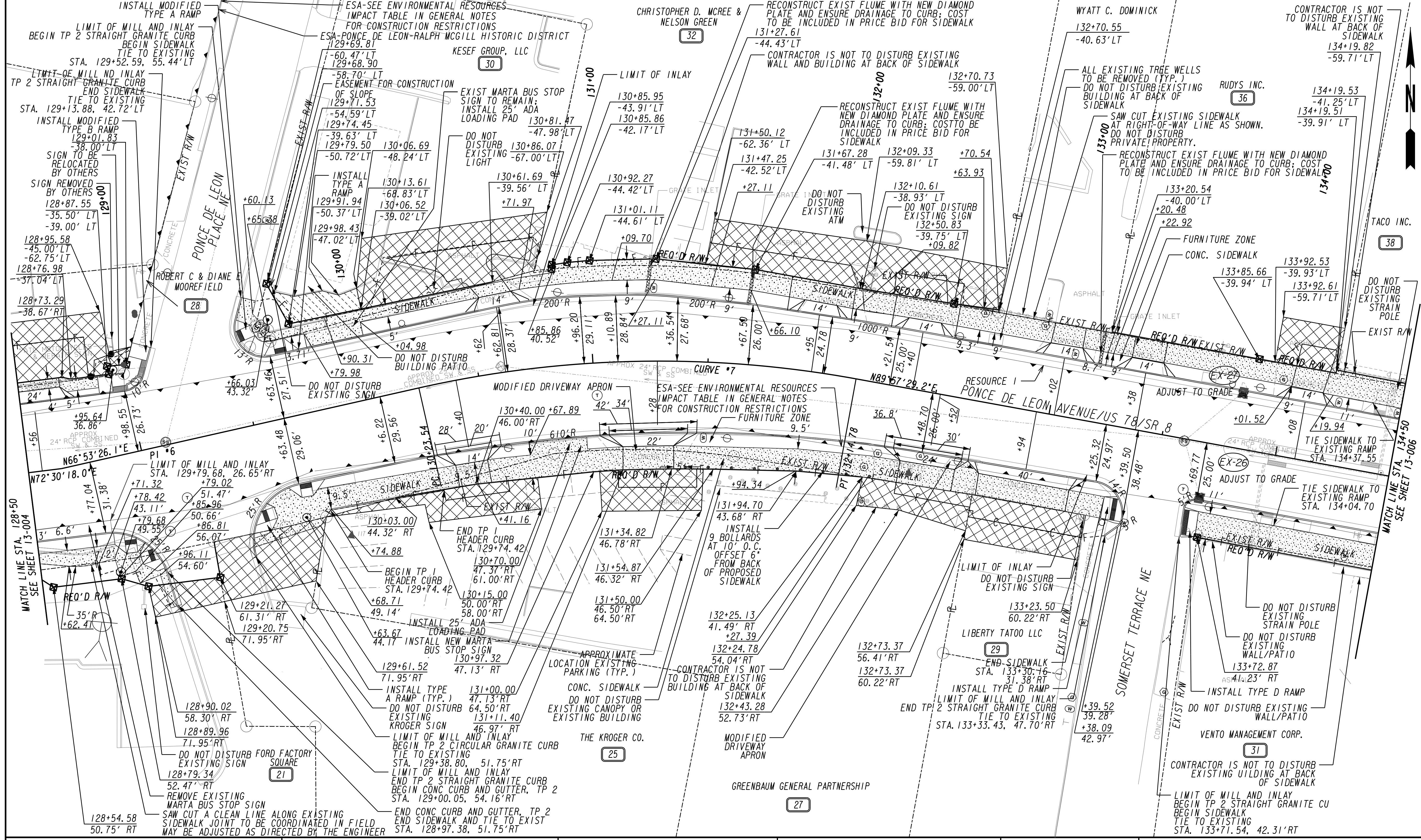
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REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

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



REVISION DATES

ATLANTA BELTLINE
MAINLINE PLAN
DRAWING No. 13-004



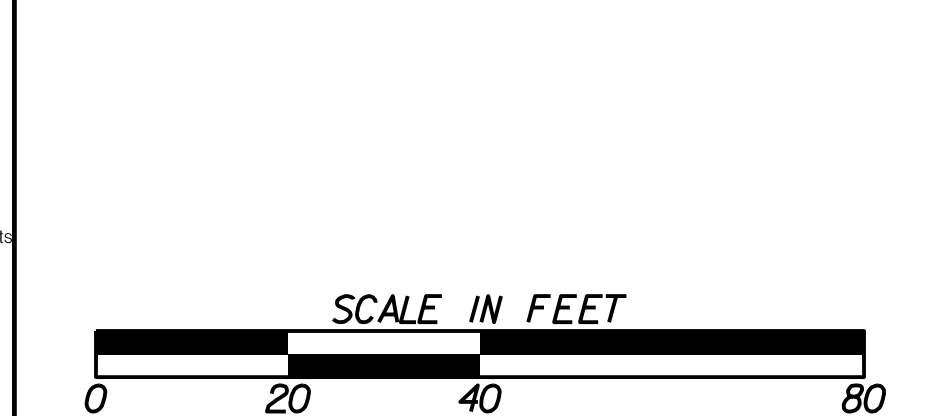
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 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

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

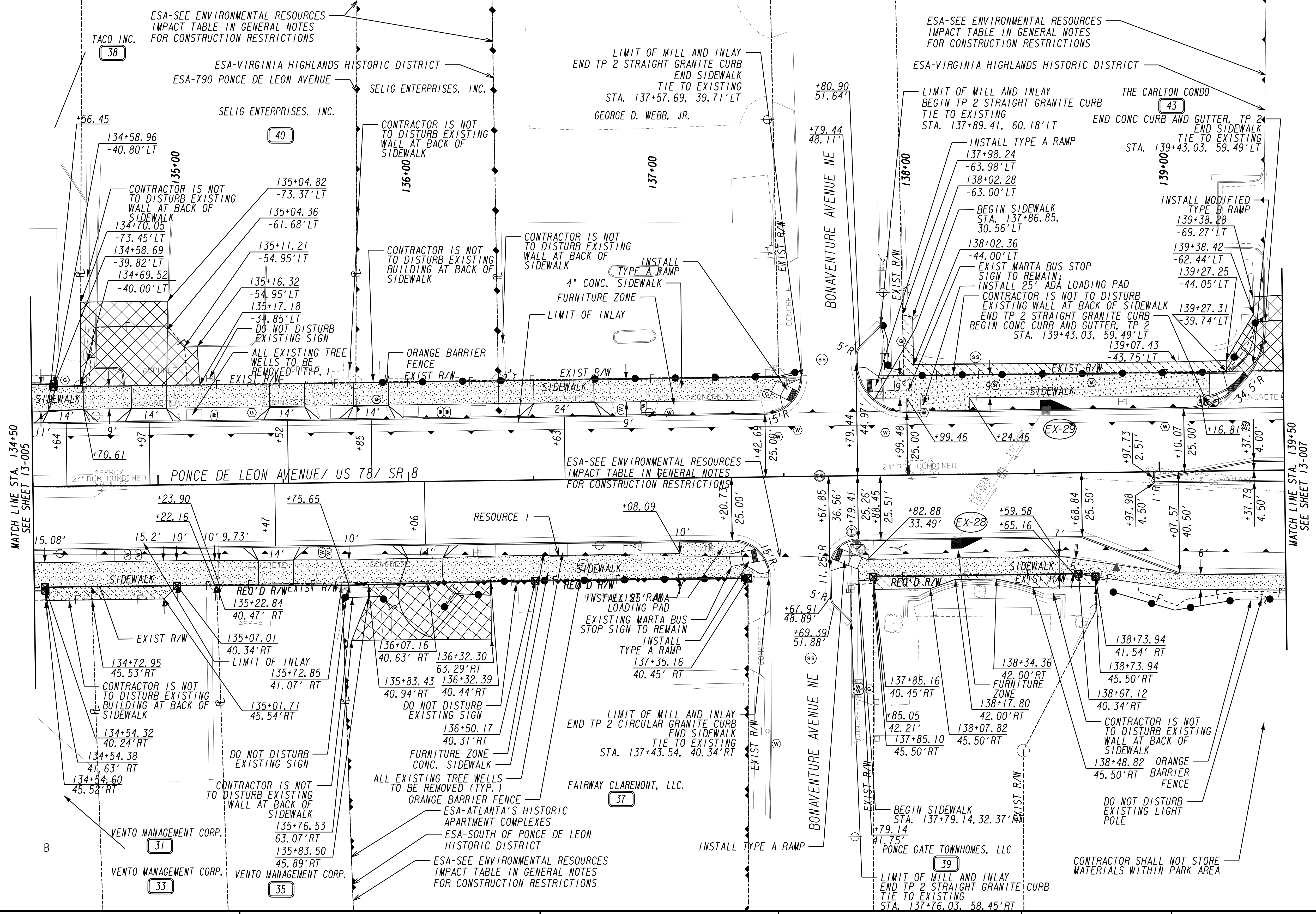
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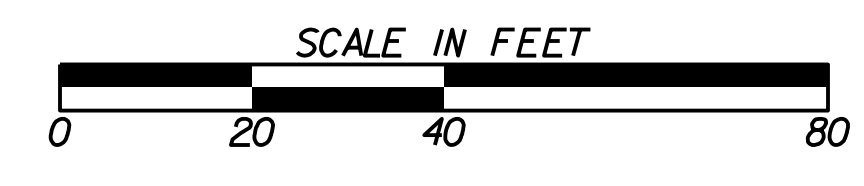
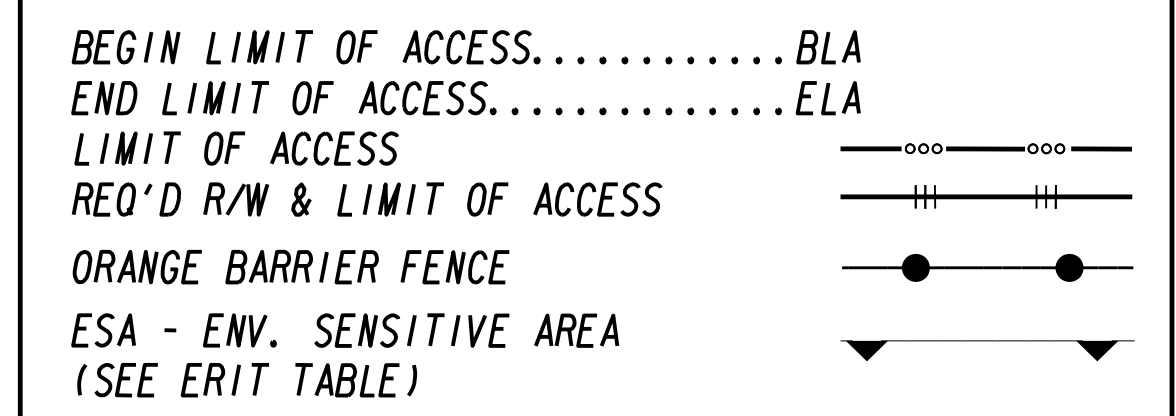
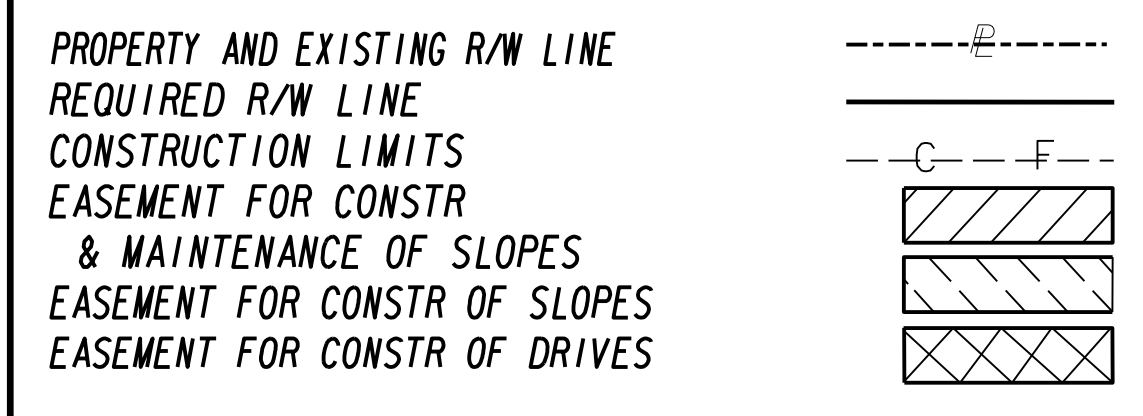
REVISION DATES

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MAINLINE PLAN
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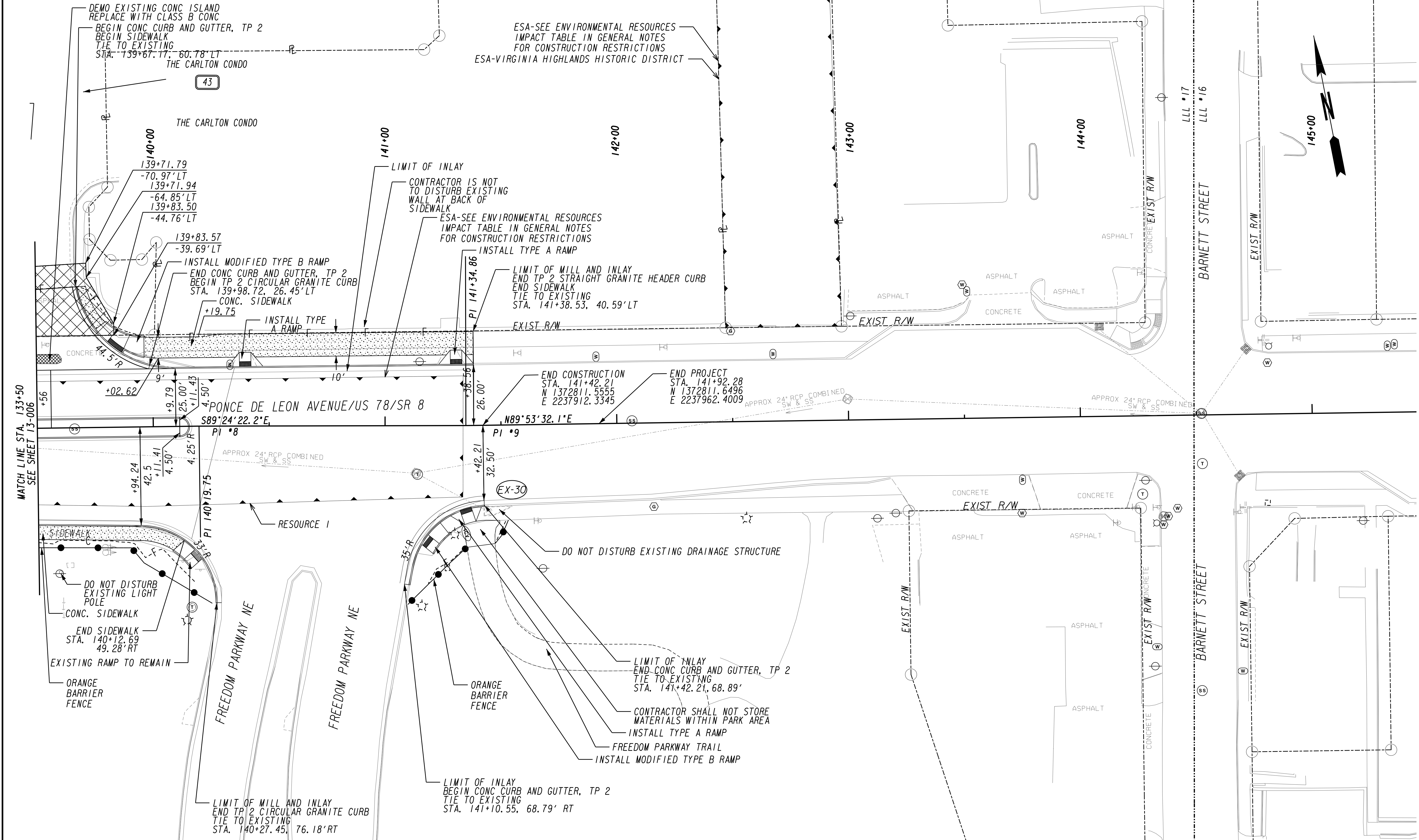
MATCH LINE STA. 134+50
SEE SHEET 13-005

MATCH LINE STA. 139+50
SEE SHEET 13-007



NO.	REVISION DATES

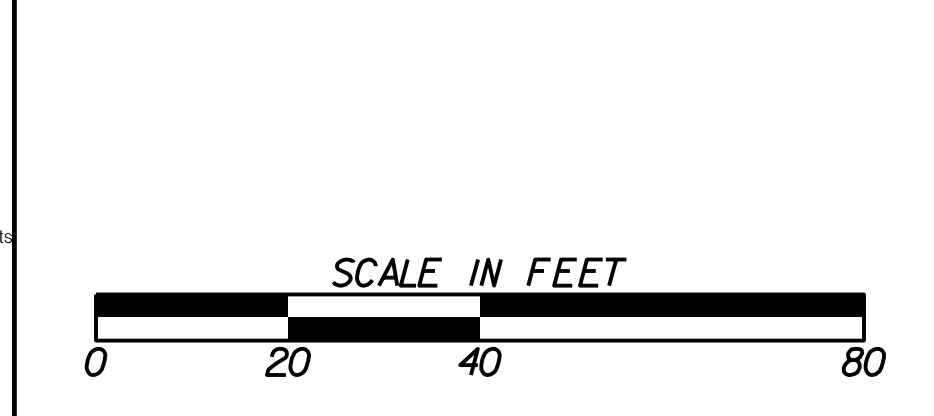
ATLANTA BELTLINE	
MAINLINE PLAN	
DRAWING No.	13-006



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

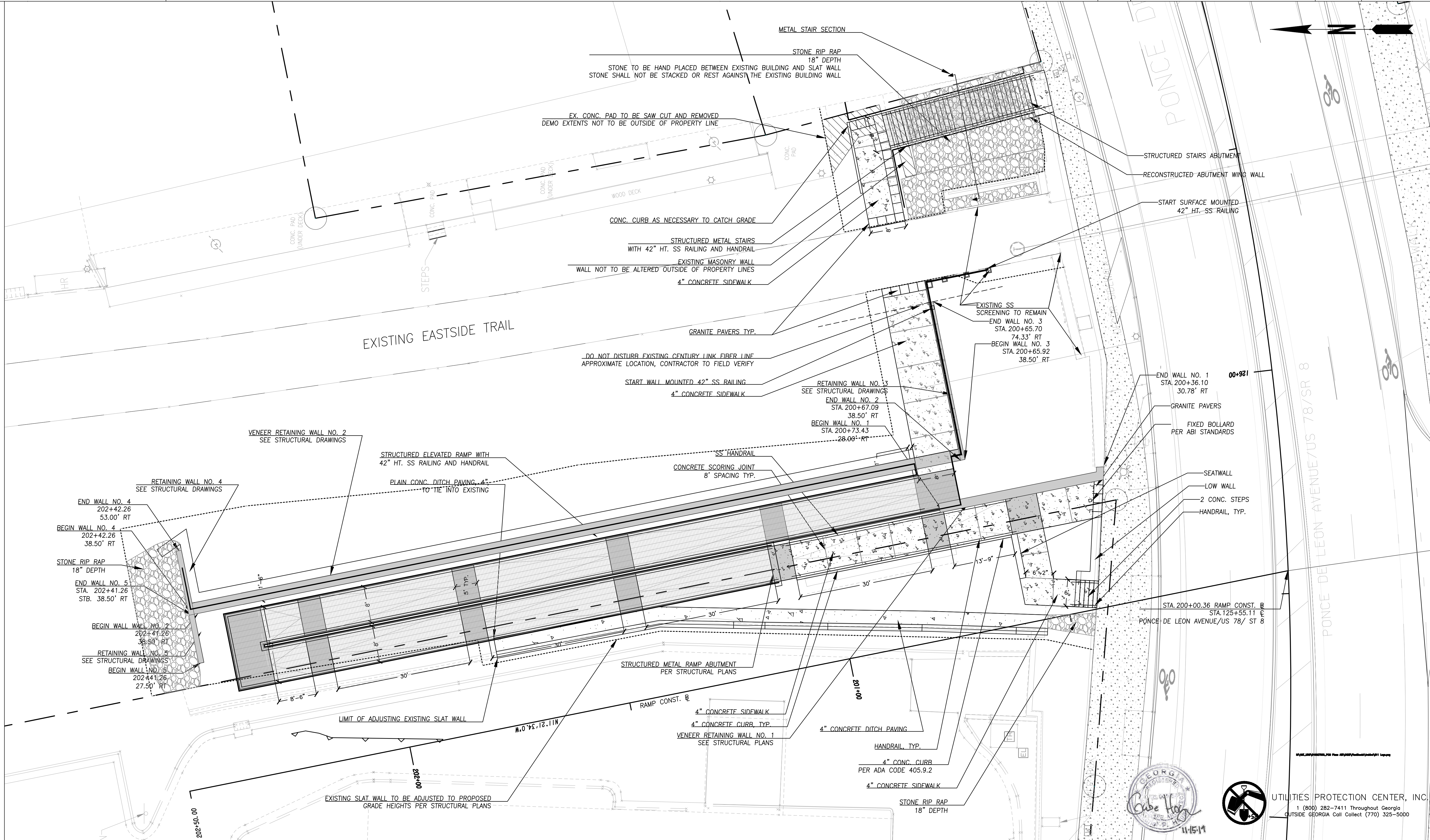
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ORANGE BARRIER FENCE	---
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REVISION DATES		

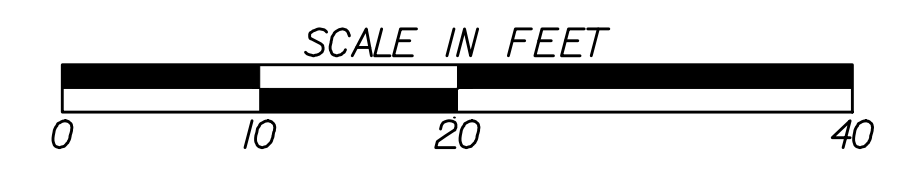
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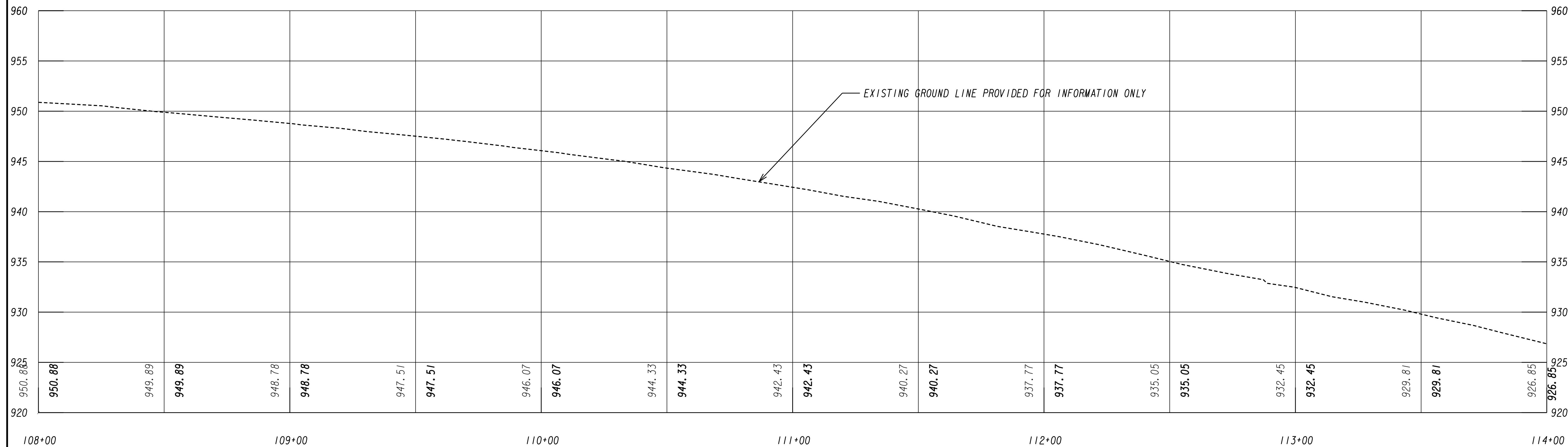
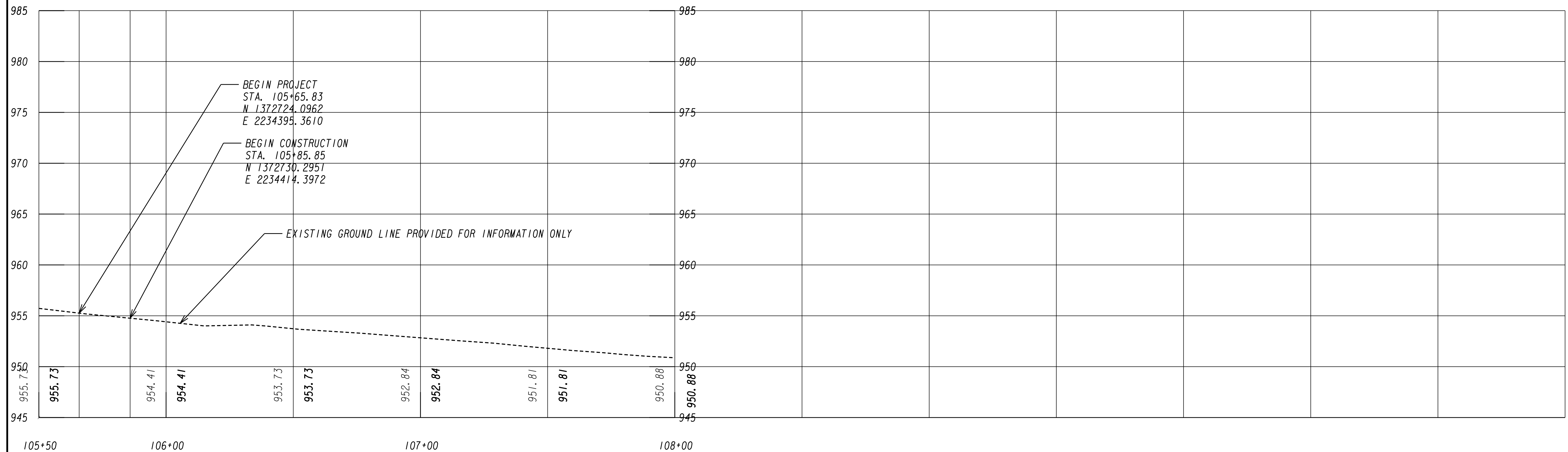
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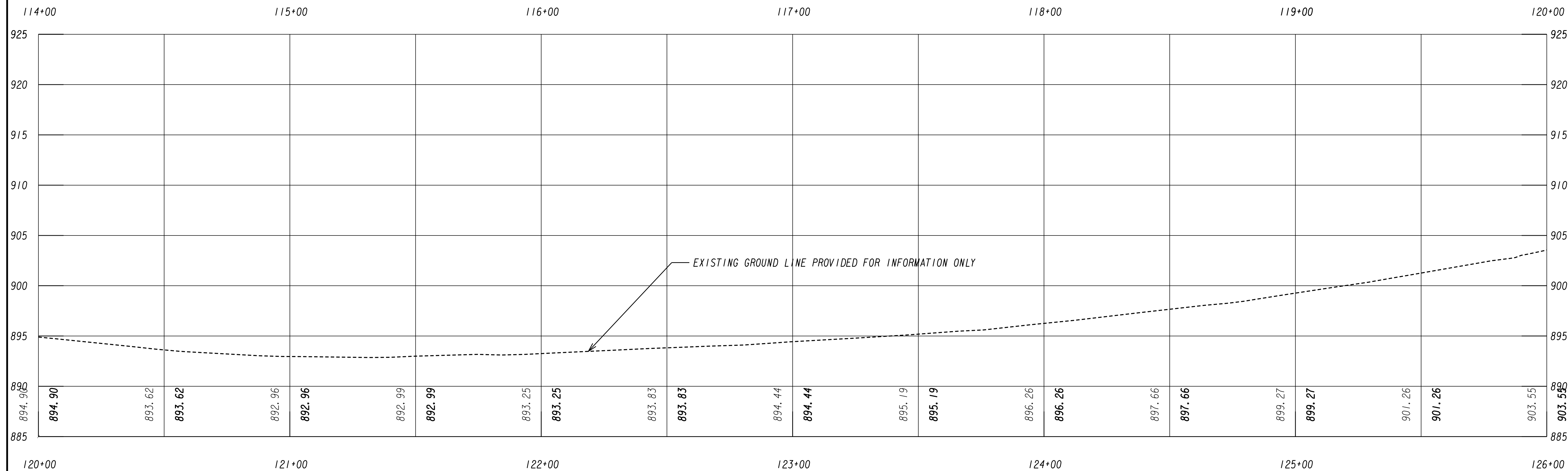
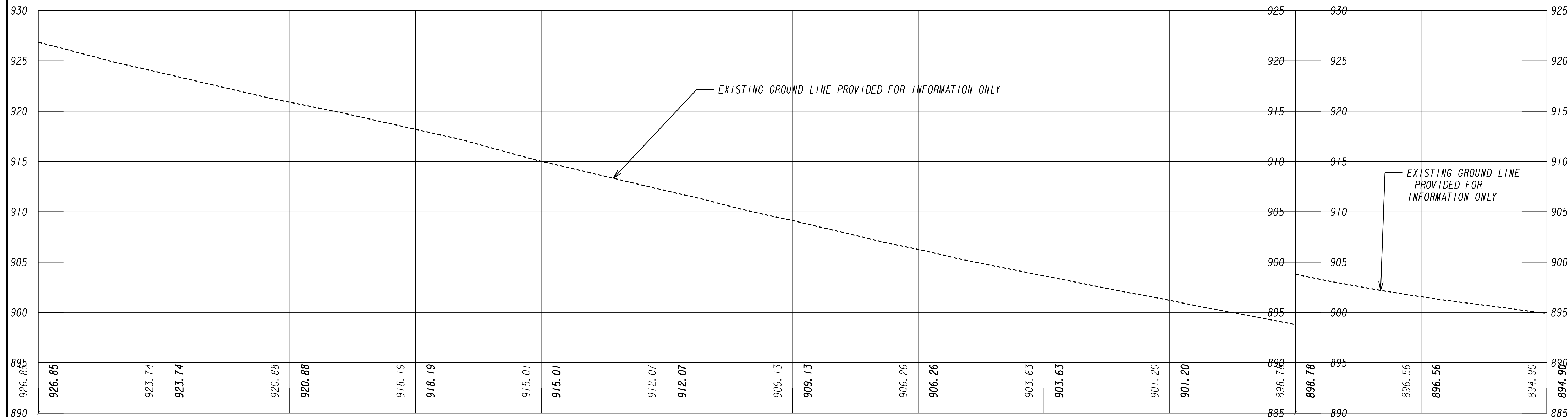


REVISION DATES		ATLANTA BELTLINE INC.

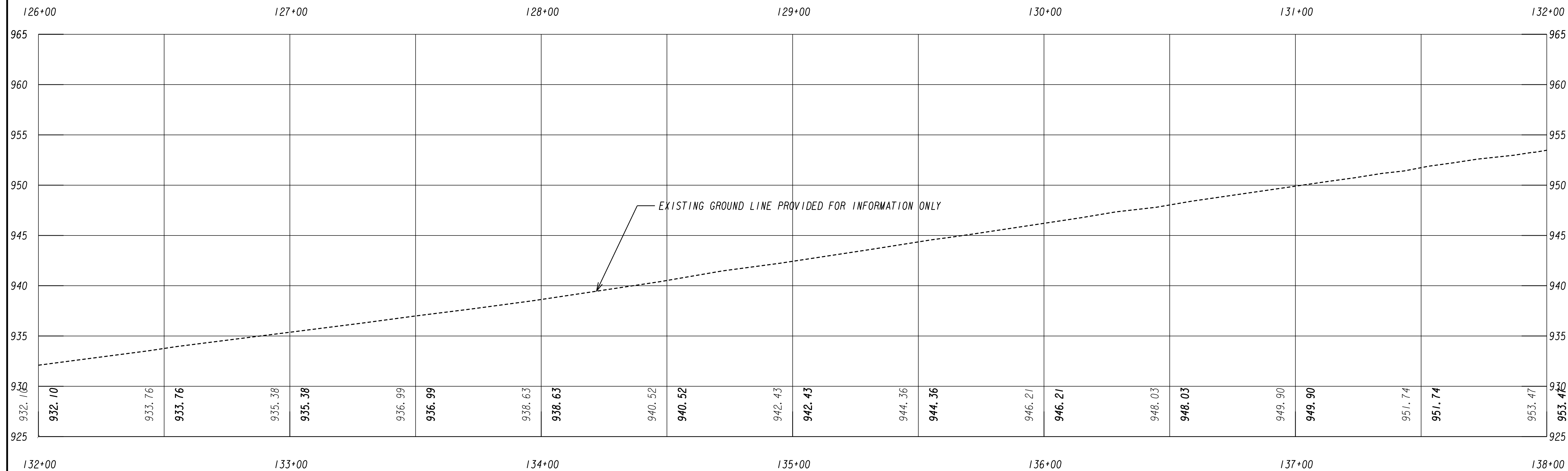
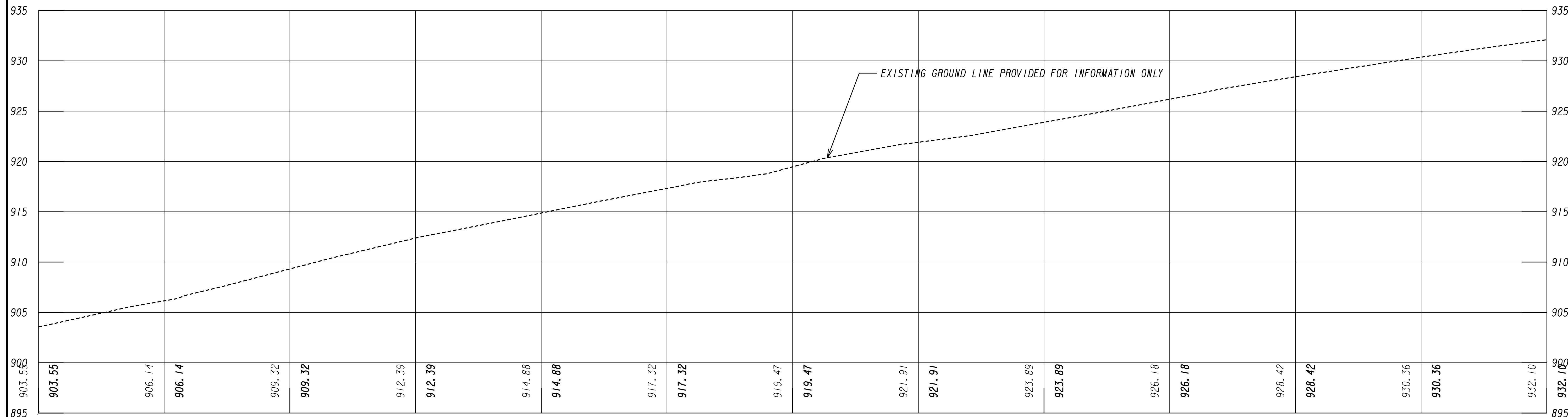
MAINLINE PLAN
 PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION

DRAWING No.
 13-008

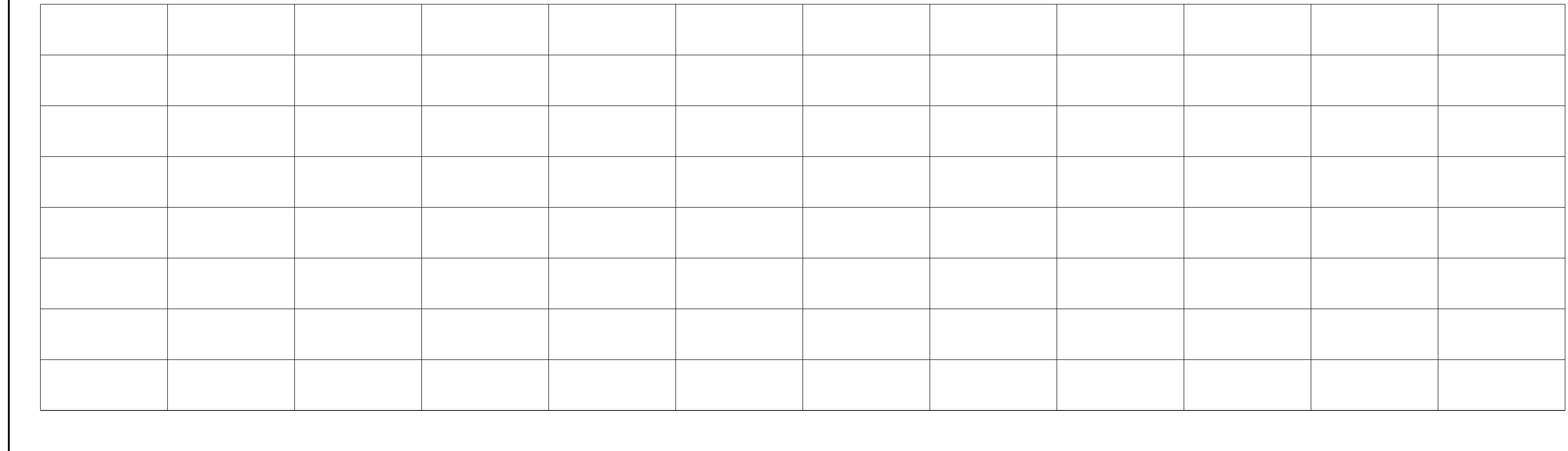
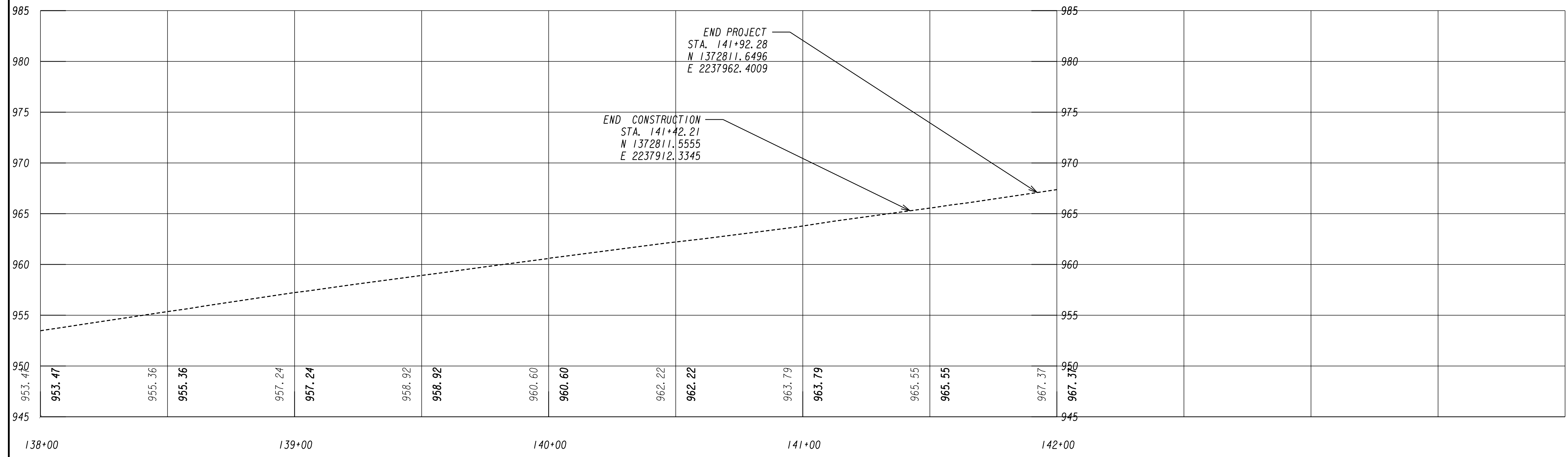




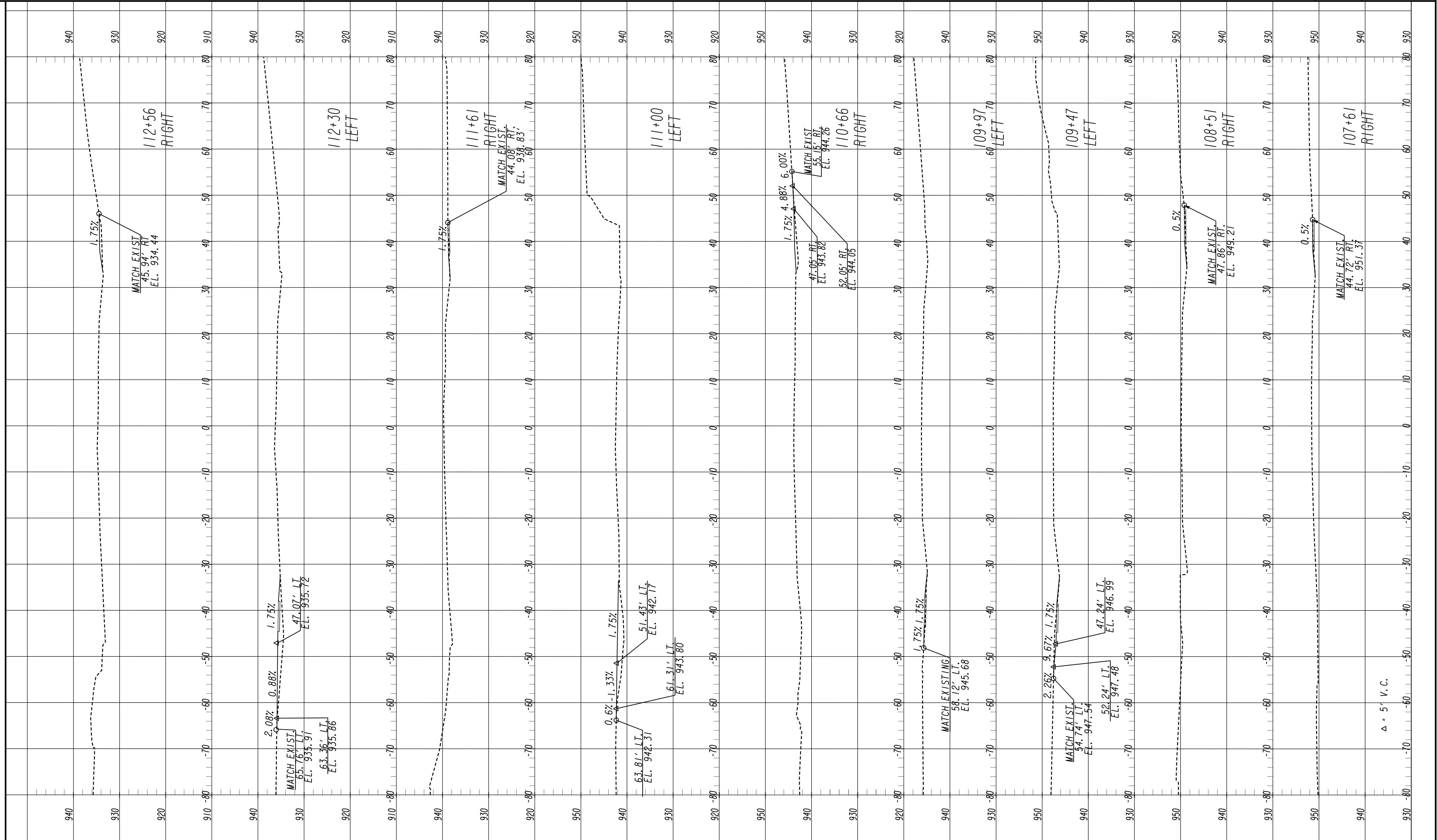
	Kimley»Horn Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308	SCALE: 1" = 20' HORIZ. 1" = 5' VERT.	REVISION DATES <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>																ATLANTA BELTLINE MAINLINE PROFILE DRAWING No. 15-002



	Kimley»Horn Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308	SCALE: 1" = 20' HORIZ. 1" = 5' VERT.	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">REVISION DATES</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISION DATES												ATLANTA BELTLINE MAINLINE PROFILE	DRAWING No. 15-003
REVISION DATES																	



		Kimley»Horn <small>Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</small>	SCALE: 1" = 20' HORIZ. 1" = 5' VERT.	REVISION DATES <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>											ATLANTA BELTLINE MAINLINE PROFILE	DRAWING No. 15-004



Δ = 5' V.C.



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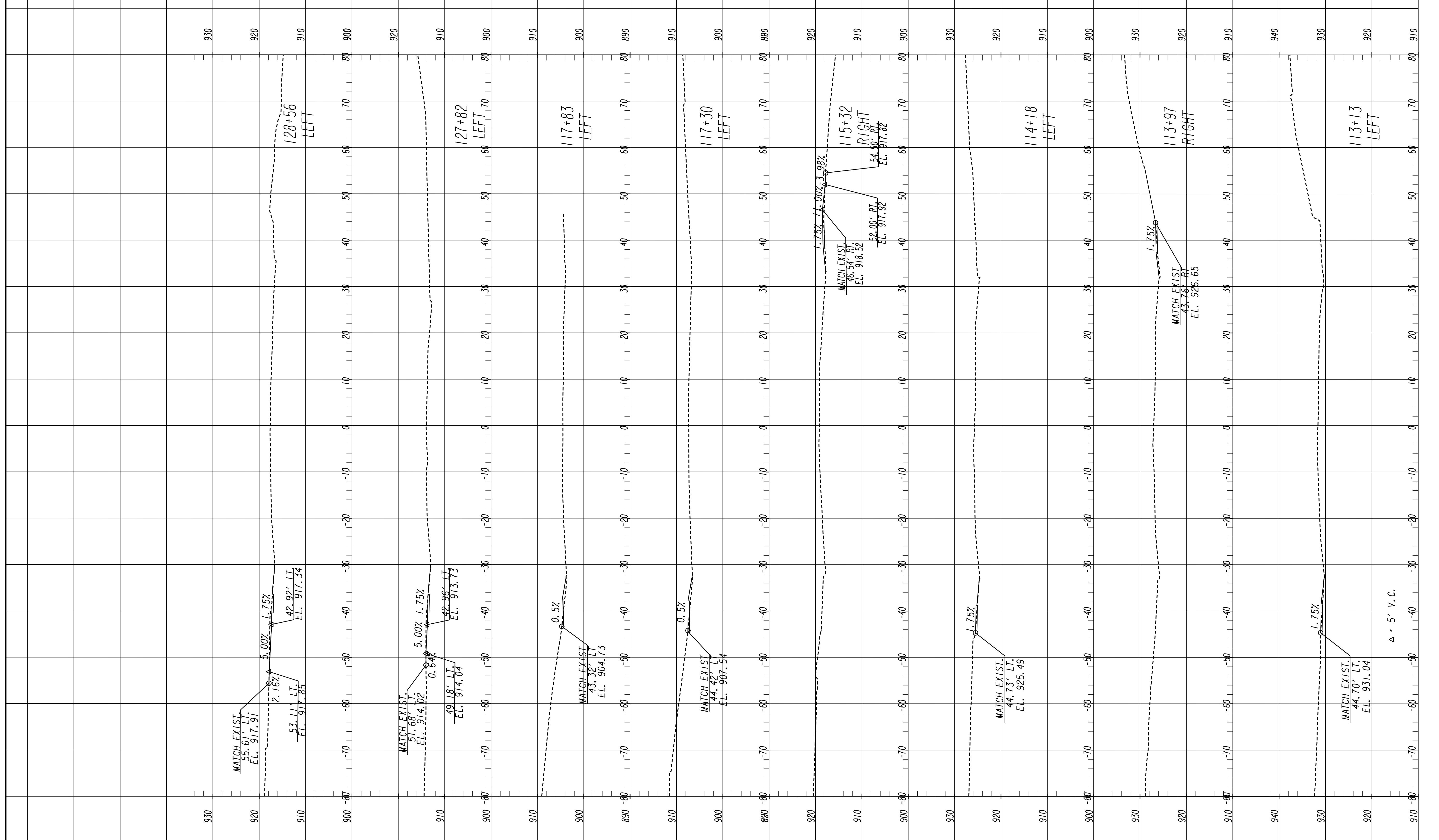


REVISION DATES

ATLANTA BELTLINE

DRIVEWAY PROFILES

DRAWING No.
 17-001



Δ = 5' V.C.



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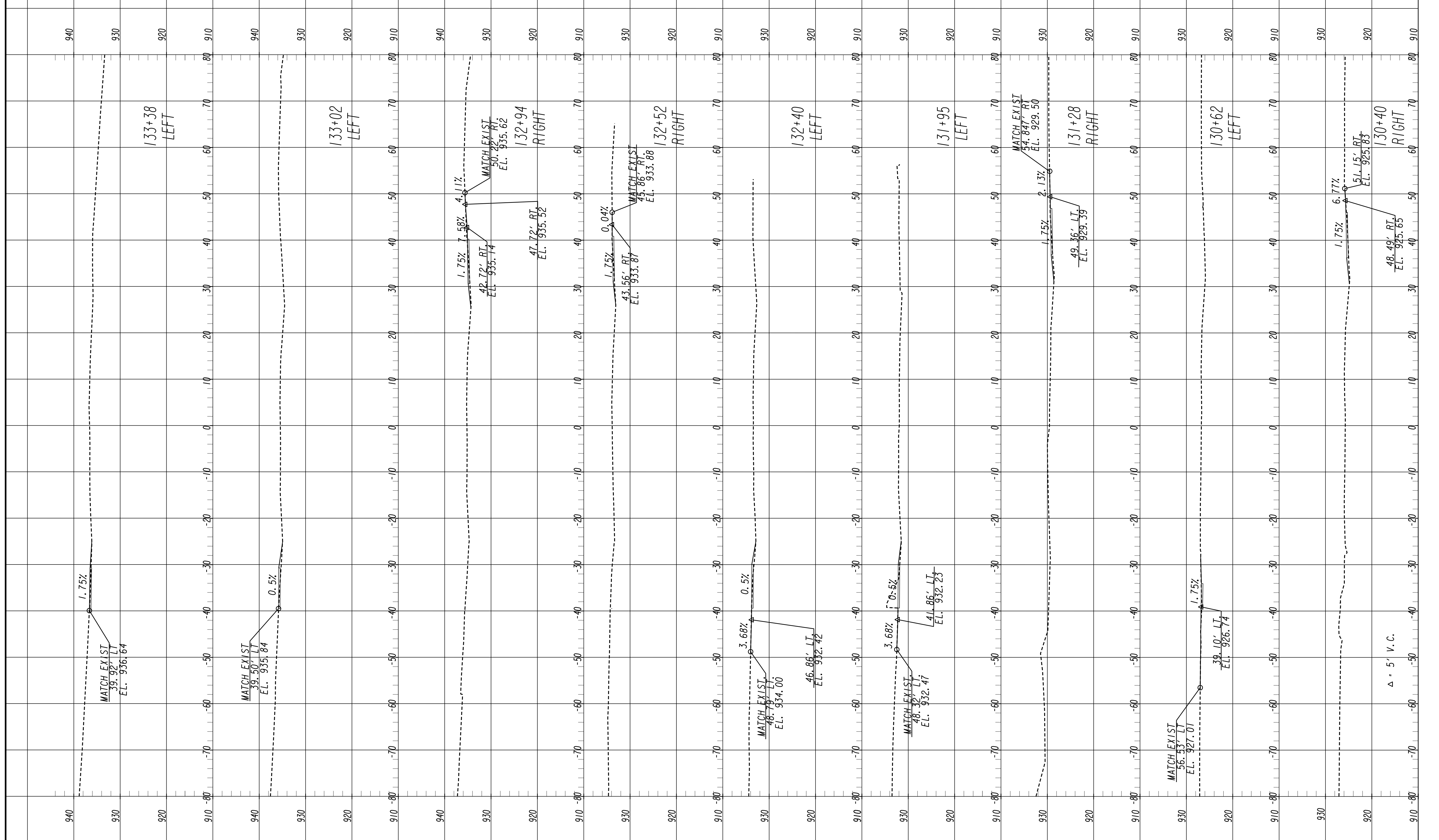
REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE

DRIVEWAY PROFILES

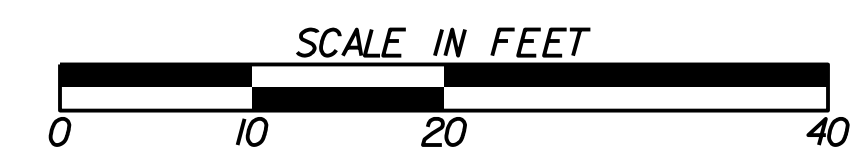
DRAWING No.
 17-002



Δ = 5' V.C.



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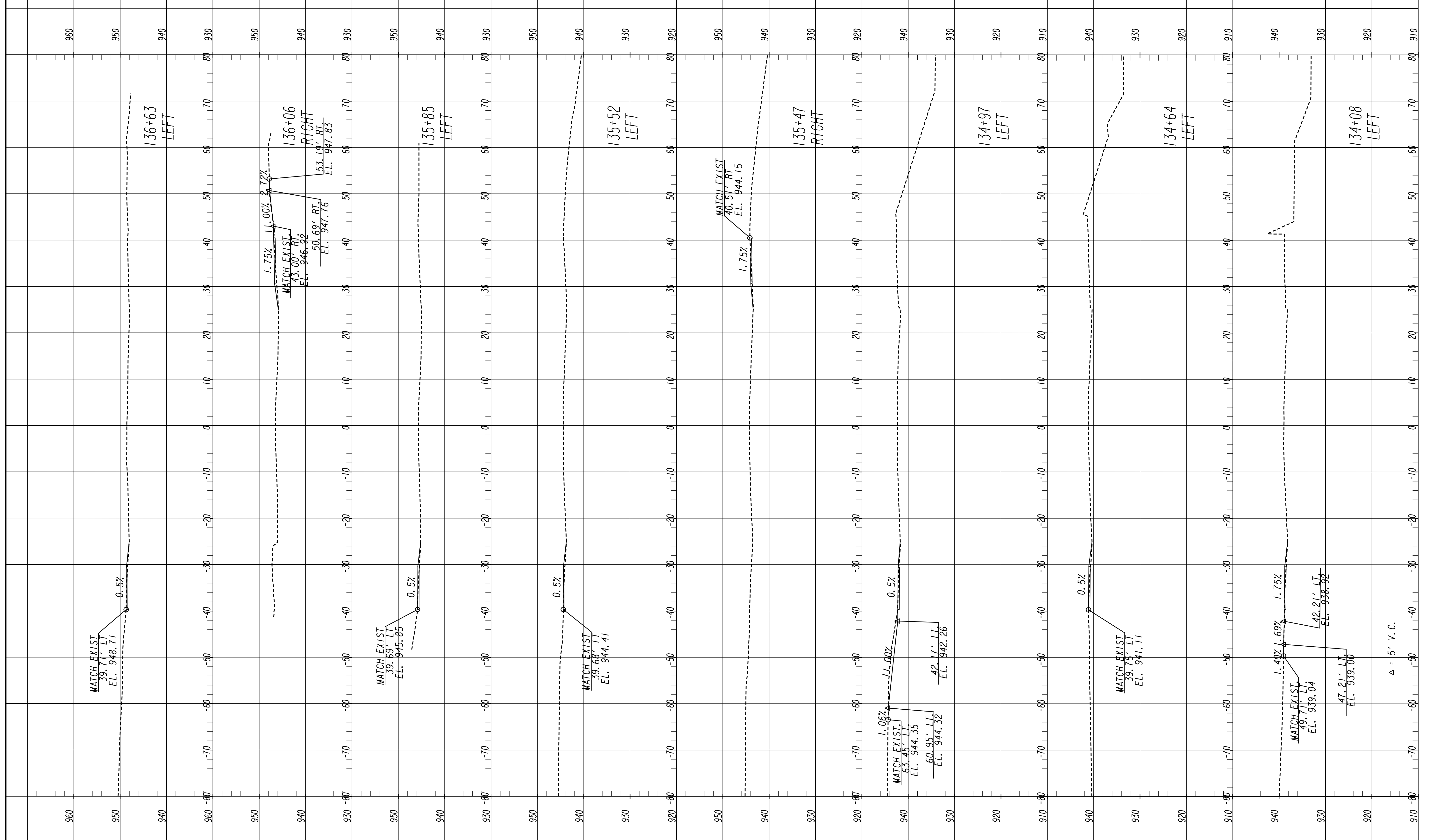
REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE

DRIVEWAY PROFILES

DRAWING No.
17-003



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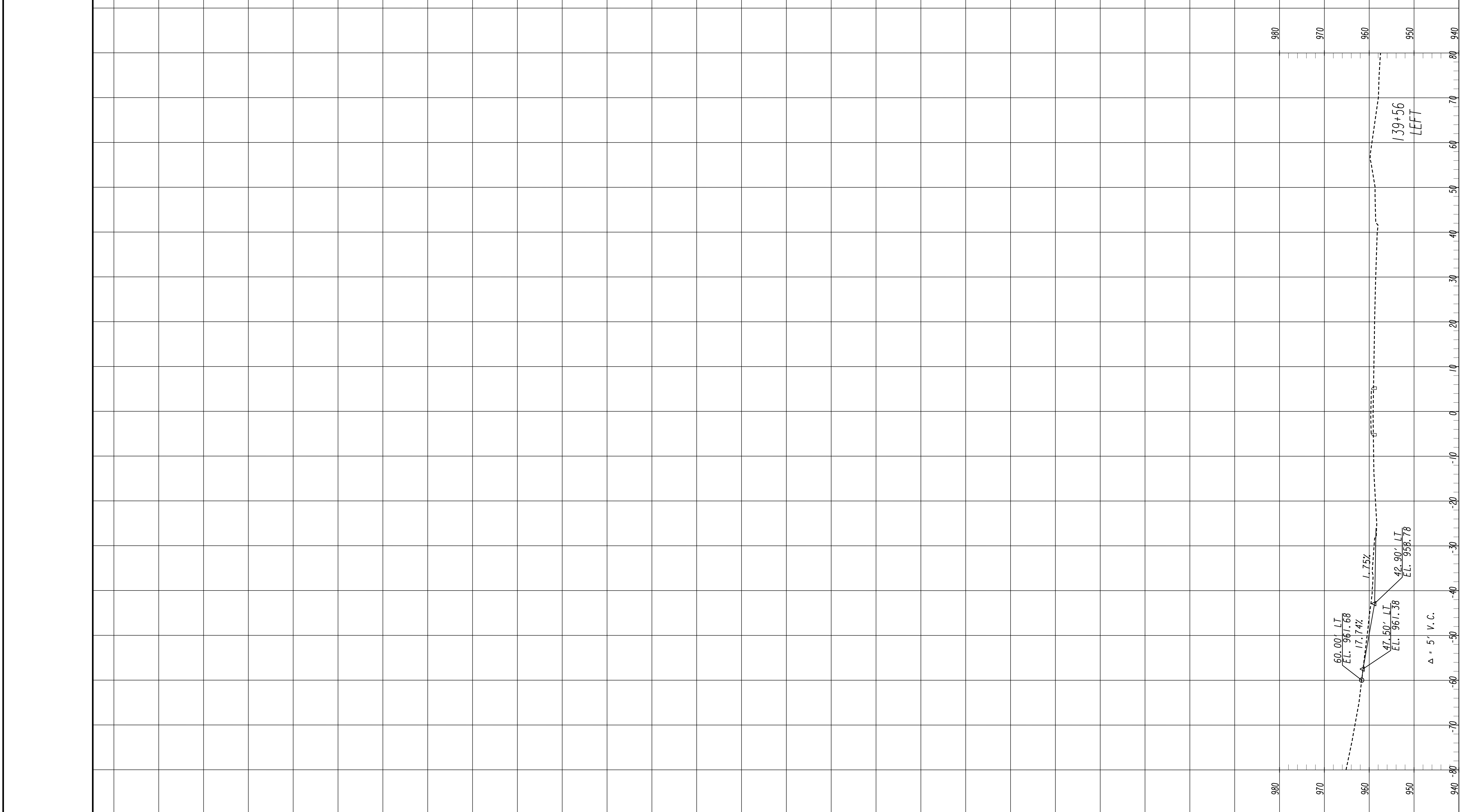


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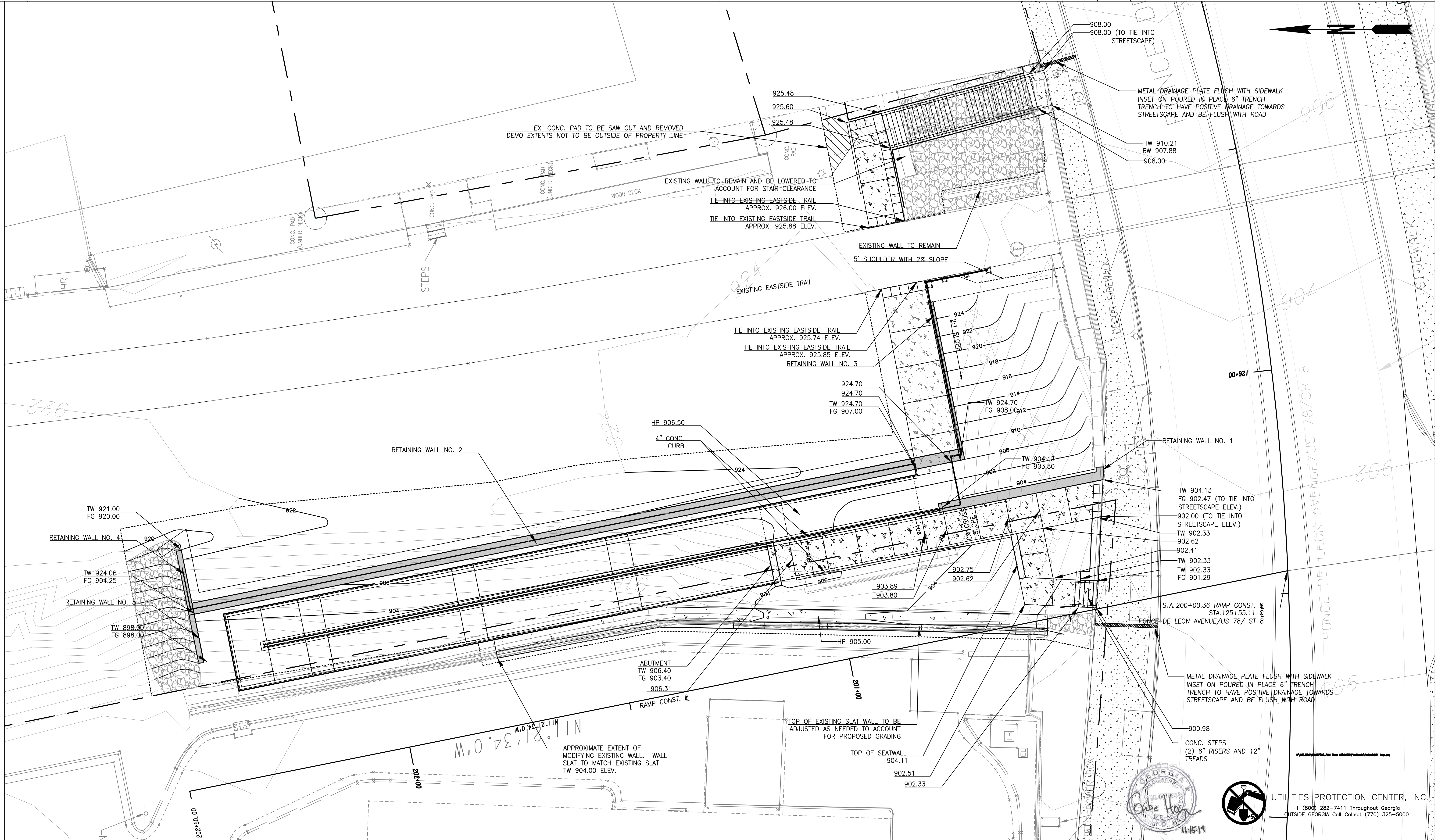
ATLANTA BELTLINE

DRIVEWAY PROFILES

DRAWING No.
17-004



	Kimley»Horn <small>Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</small>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">REVISION</th> <th style="width: 50%;">DATES</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISION	DATES													ATLANTA BELTLINE OFFICE: DRIVEWAY PROFILES	DRAWING No. 17-005
REVISION	DATES																		



LEGEND
 TW.....TOP OF WALL ELEVATION
 BW.....BOTTOM OF WALL ELEVATION
 FG.....FINAL GROUND ELEVATION IN FRONT OF WALL
 TC.....TOP OF CURB
 BC.....BOTTOM OF CURB



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REVISION DATES

UTILITIES PROTECTION CENTER, INC.
 1 (800) 282-7411 Throughout Georgia
 OUTSIDE GEORGIA Call Collect (770) 325-5000

ATLANTA BELTLINE INC.
GRADING AND DRAINAGE PLAN
 PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
 DRAWING No. 18-001



BEGIN PROJECT
 STA. 105+65.83
 N 1372724.0962
 E 2234395.3610

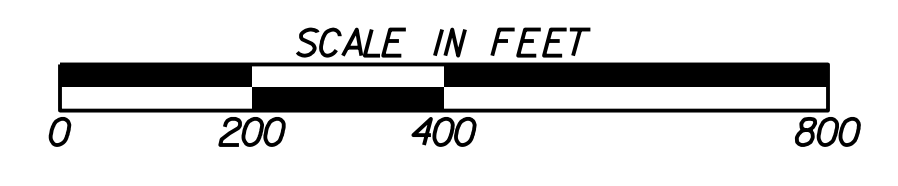
END PROJECT
 STA. 141+91.00
 N 1372811.6475
 E 2237961.2835

OUTFALL STATION	SIZE	SLOPE (FT/FT)	Q10 PRE (CFS)	V10 PRE (FT/S)	Q25 PRE (CFS)	V25 PRE (FT/S)	Q10 POST (CFS)	V10 POST (FT/S)	Q25 POST (CFS)	V25 POST (FT/S)	DRAINAGE AREA (AC)	DISTURBED AREA (AC)	C-PRE	C-POST	RECEIVING WATERS
A 121+79.36' LT. PIPE	18" PIPE	0.003	47.28	26.75	61.11	34.58	26.61	15.06	36.78	20.82	0.093	0.021	0.90	0.86	PIEDMONT LAKE
B 121+81.35' LT. PIPE	24" PIPE	0.024	87.05	27.71	95.57	30.42	108.64	34.58	119.03	37.89	48.45	1.84	0.86	0.86	PIEDMONT LAKE
C 121+82.36' LT. PIPE	30" PIPE	0.010	10.35	14.04	8.81	13.39	11.54	14.50	11.17	37.89	0.13	0.023	0.90	0.87	PIEDMONT LAKE

PROJECT AREA = 8.07 ACRES
 DISTURBED AREA = 2.09 ACRES
 RECEIVING WATERS
 PIEDMONT LAKE
 PIEDMONT LAKE
 PIEDMONT LAKE



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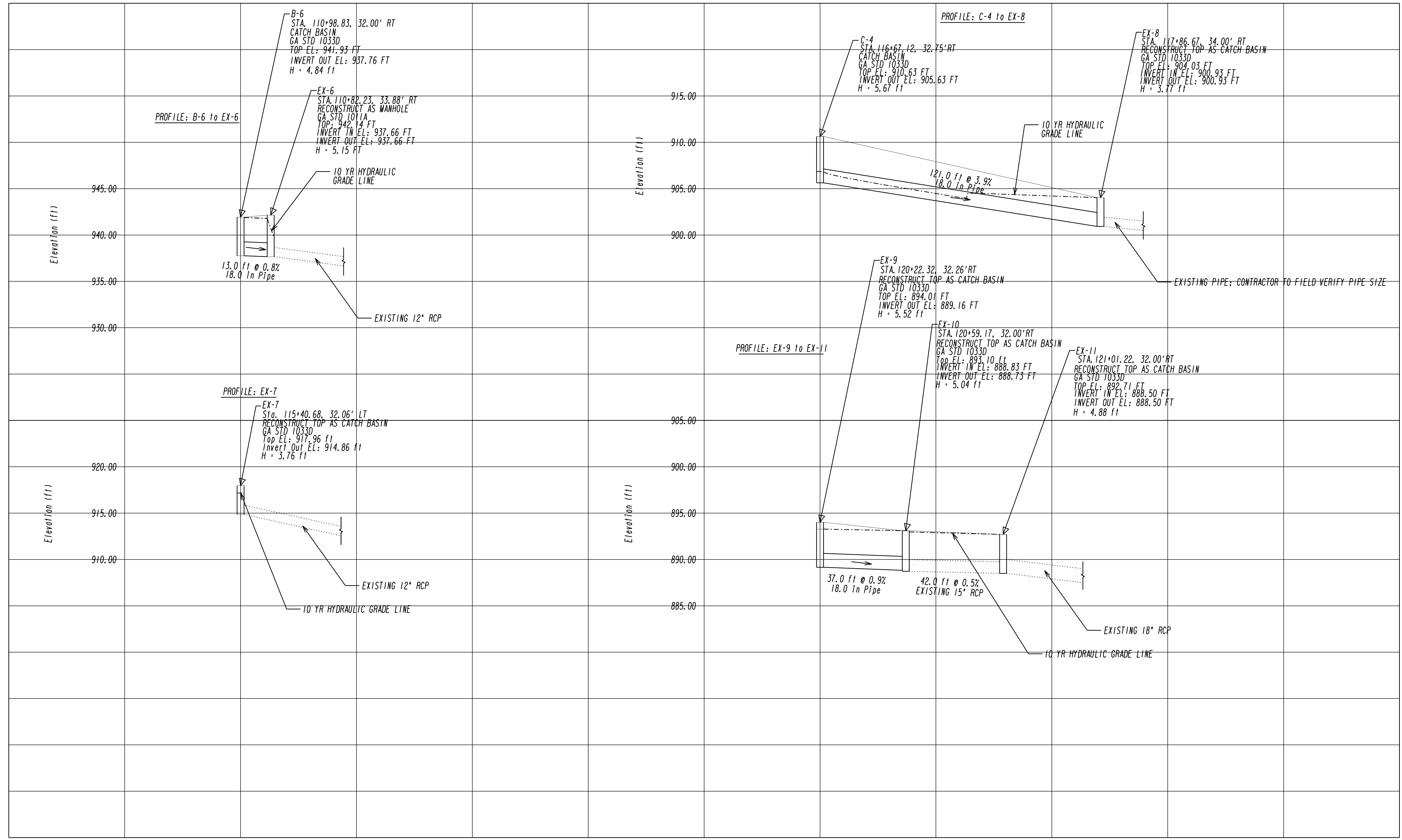


REVISION DATES

ATLANTA BELTLINE

DRAINAGE AREA MAP

DRAWING No.
21-0001



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SCALE: 1" = 50' HORIZ.
 1" = 10' VERT.

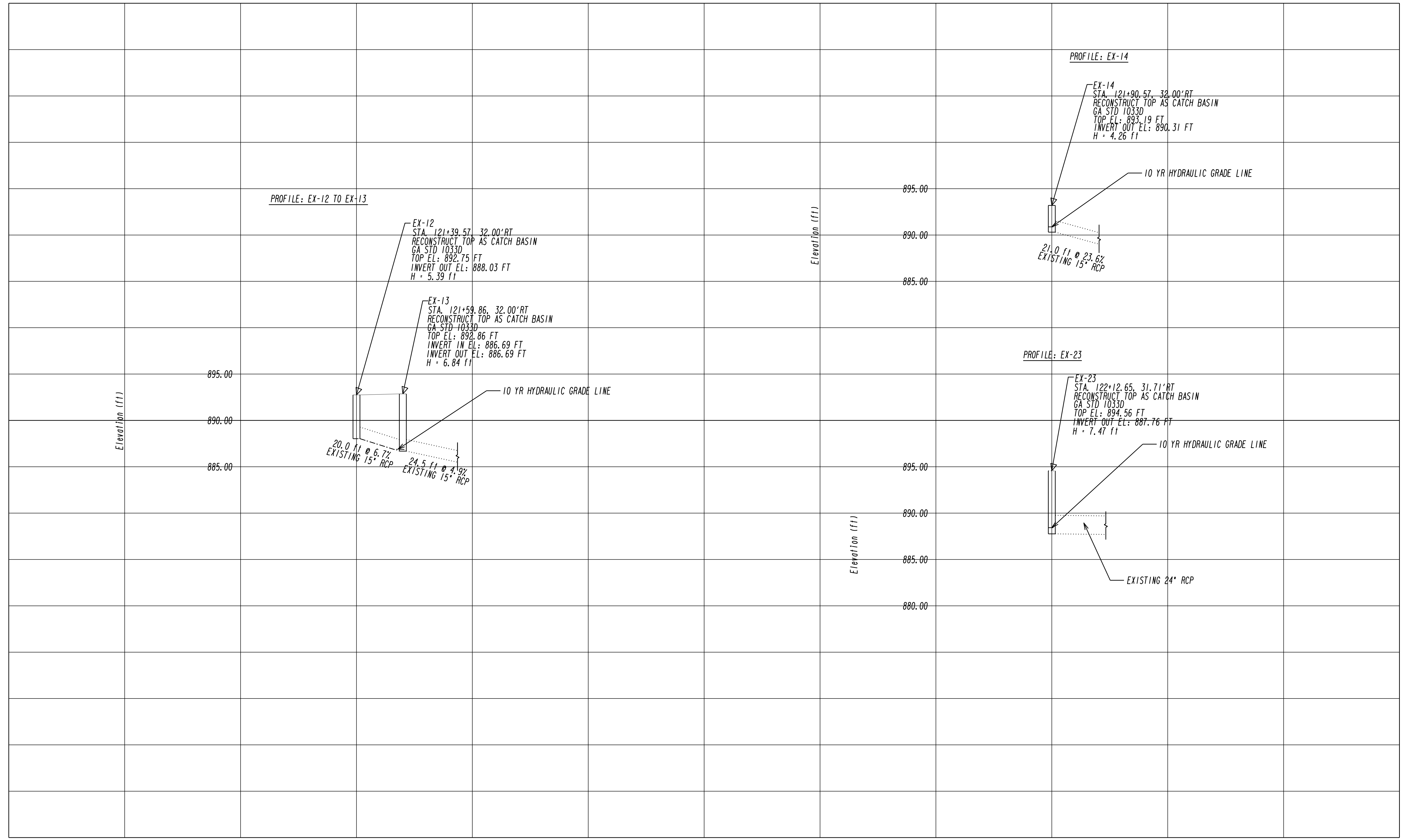
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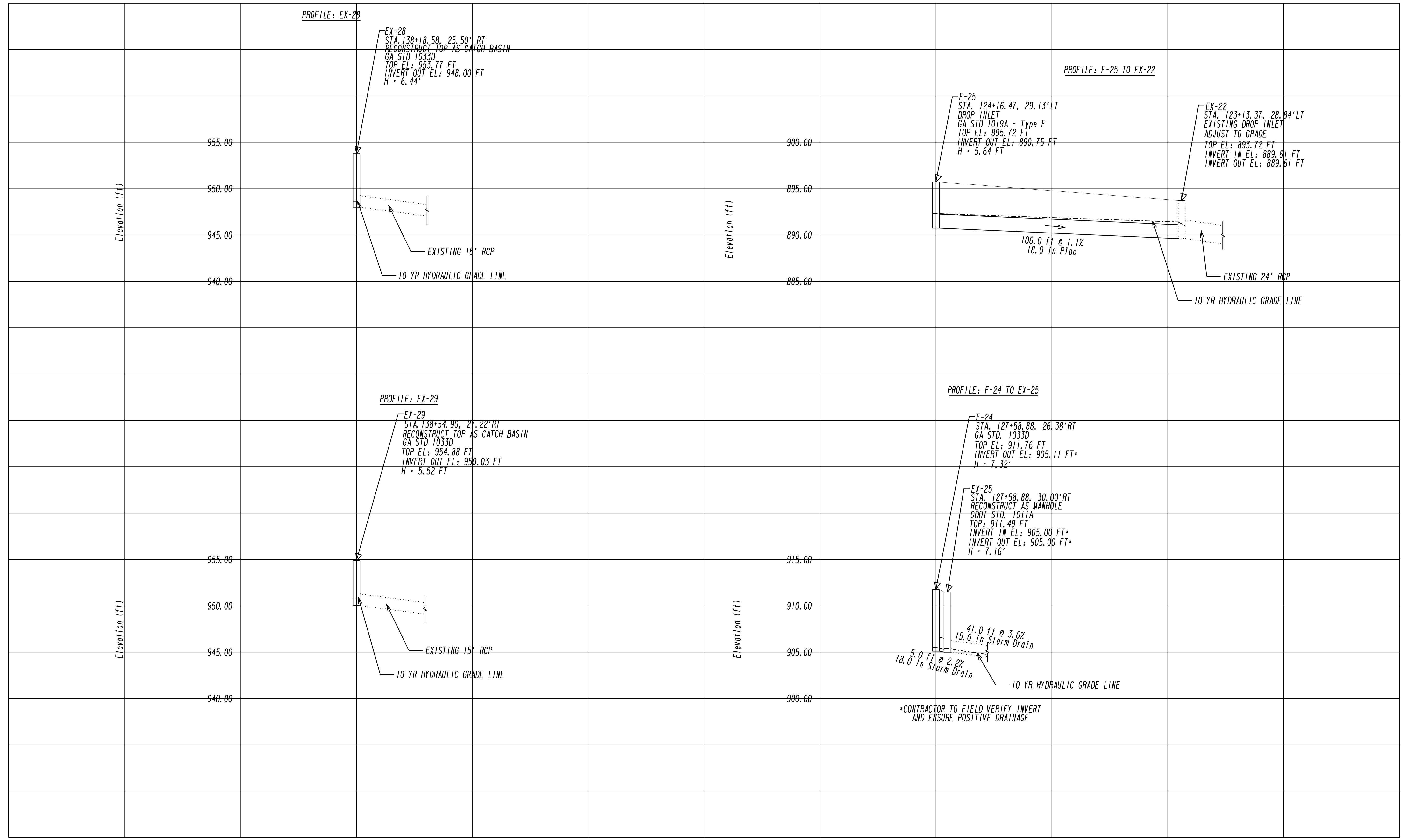
ATLANTA BELTLINE

DRAINAGE PROFILE

DRAWING No.
22-001



REVISION DATES	



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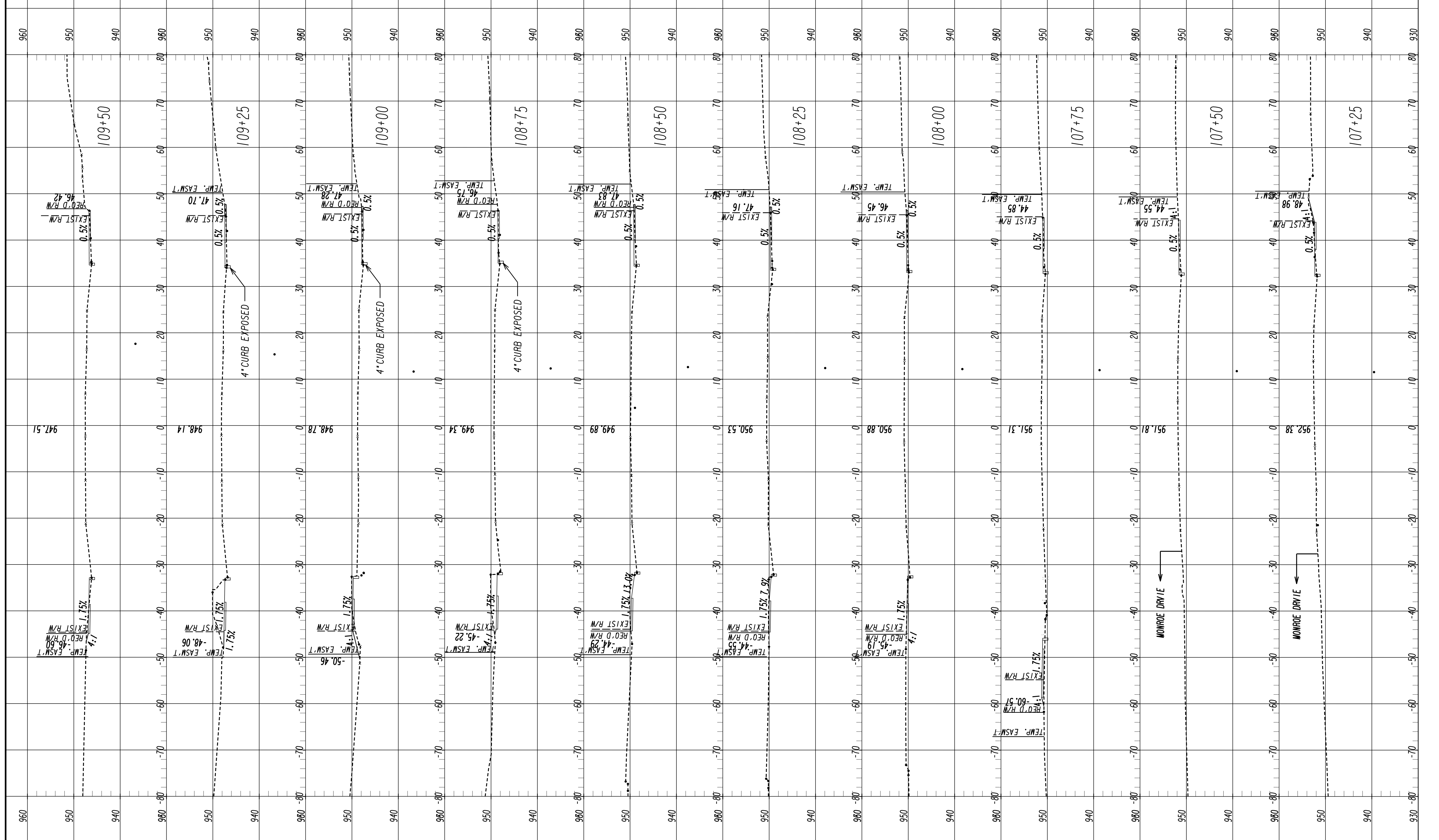
REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE

DRAINAGE PROFILE

DRAWING No.
22-003



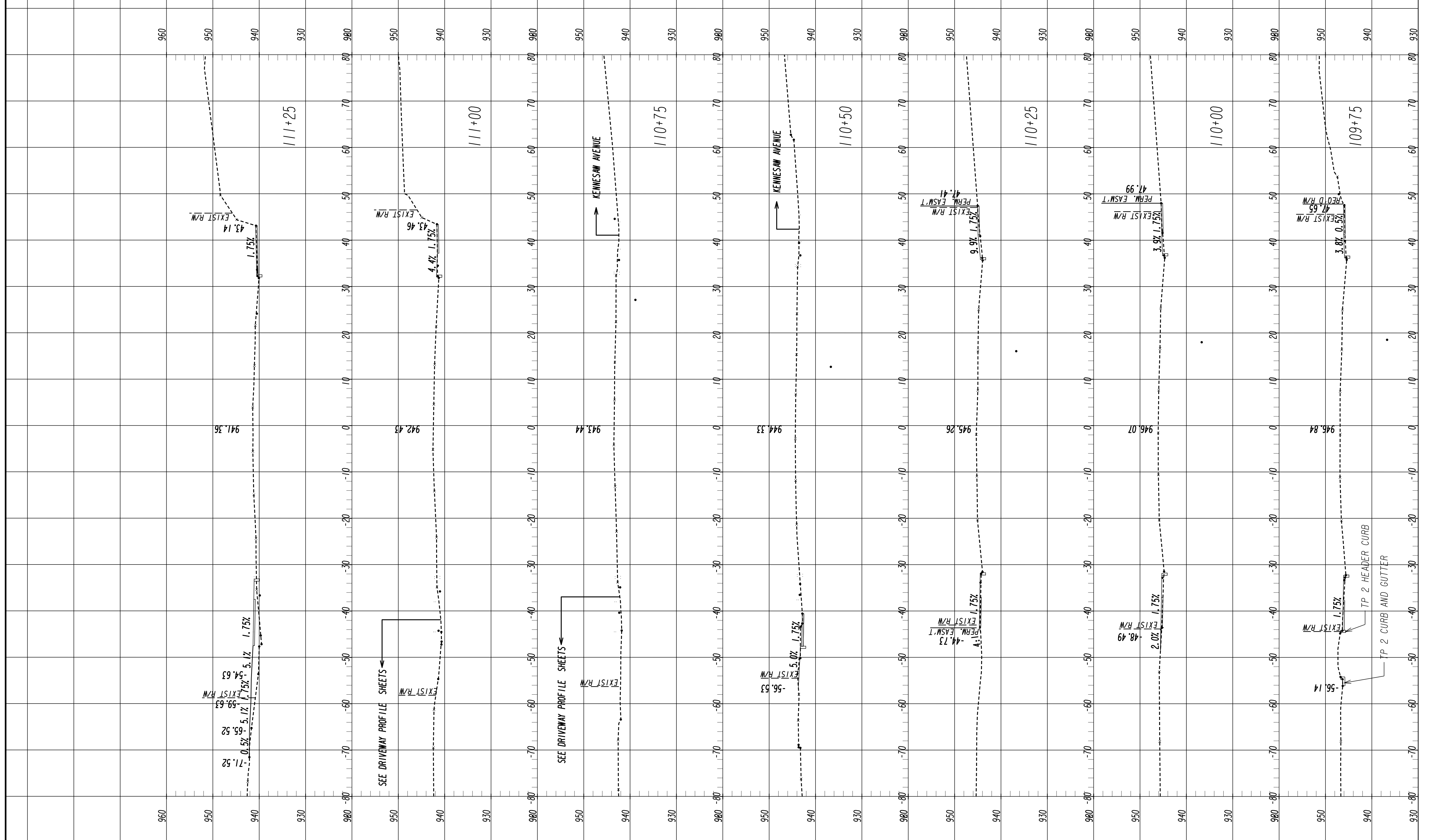
REVISION DATES		ATLANTA BELTLINE	
		CROSS SECTIONS	



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DRAWING No.
23-001



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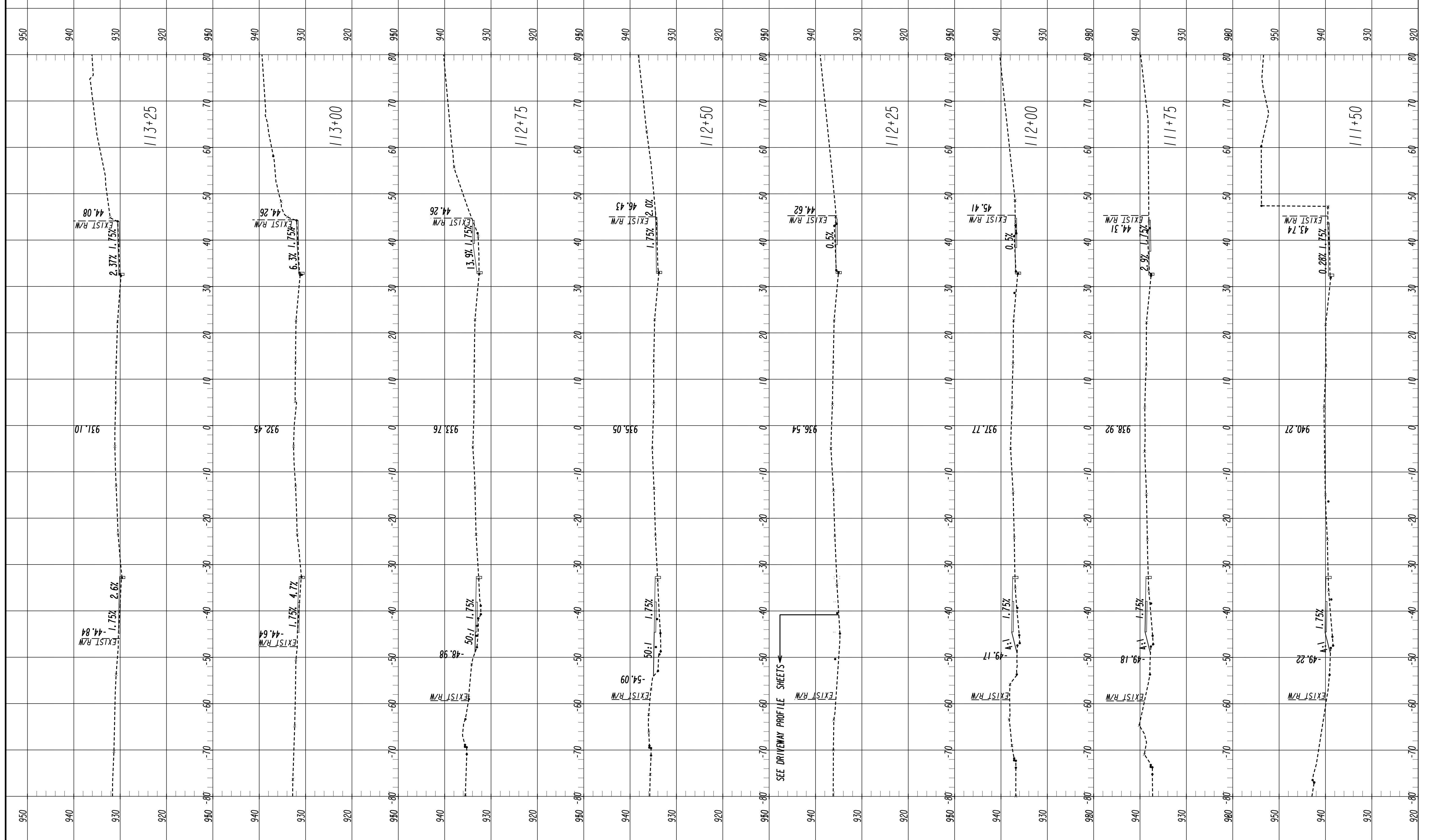
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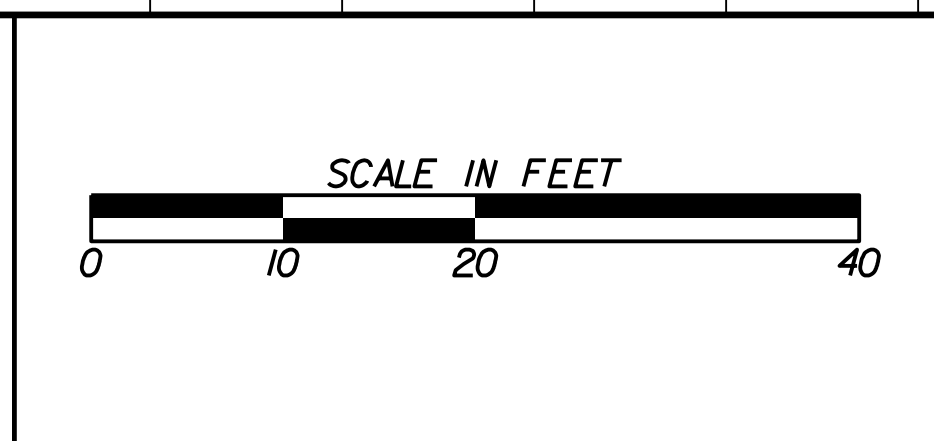
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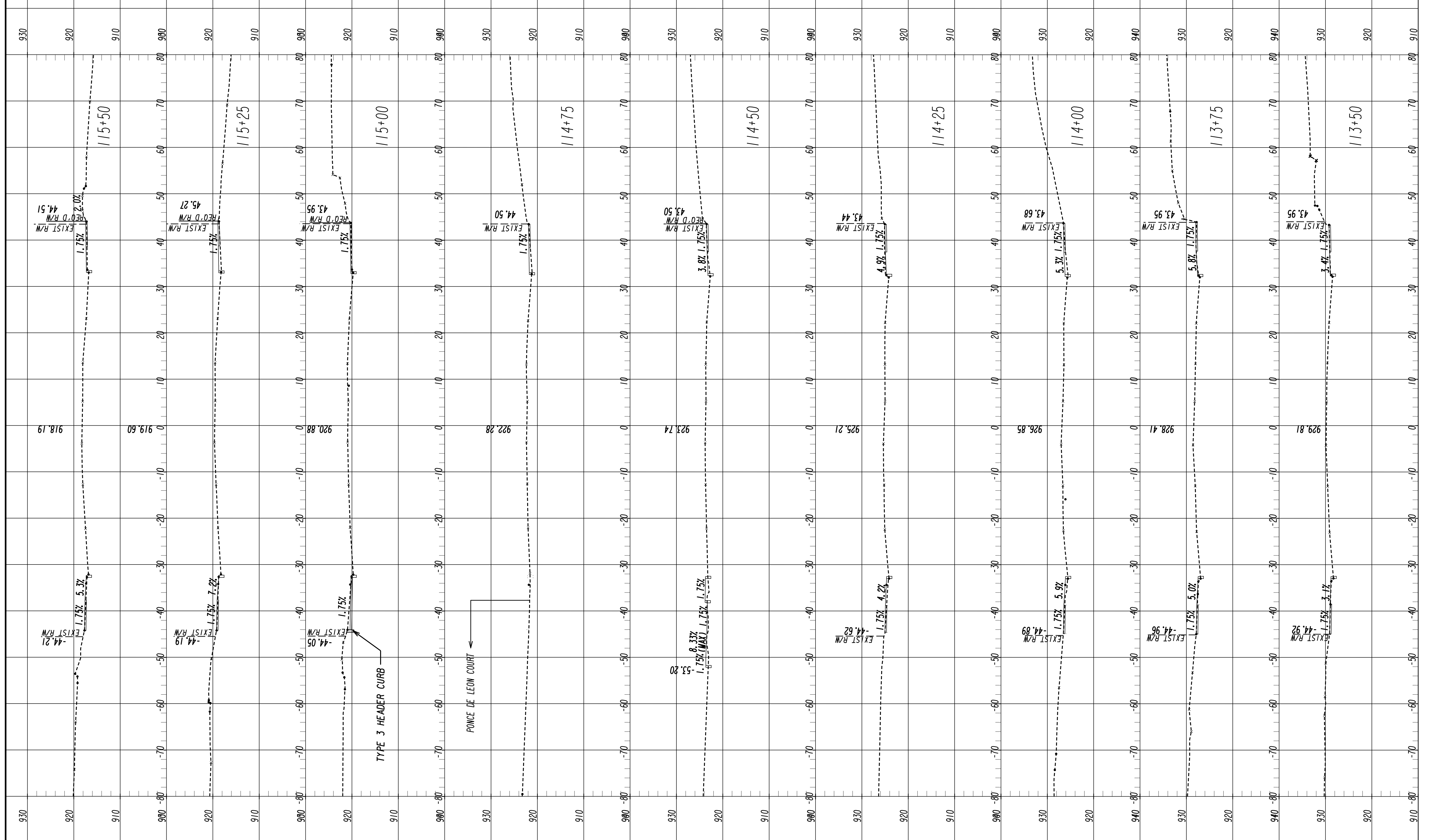
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REVISION DATES	



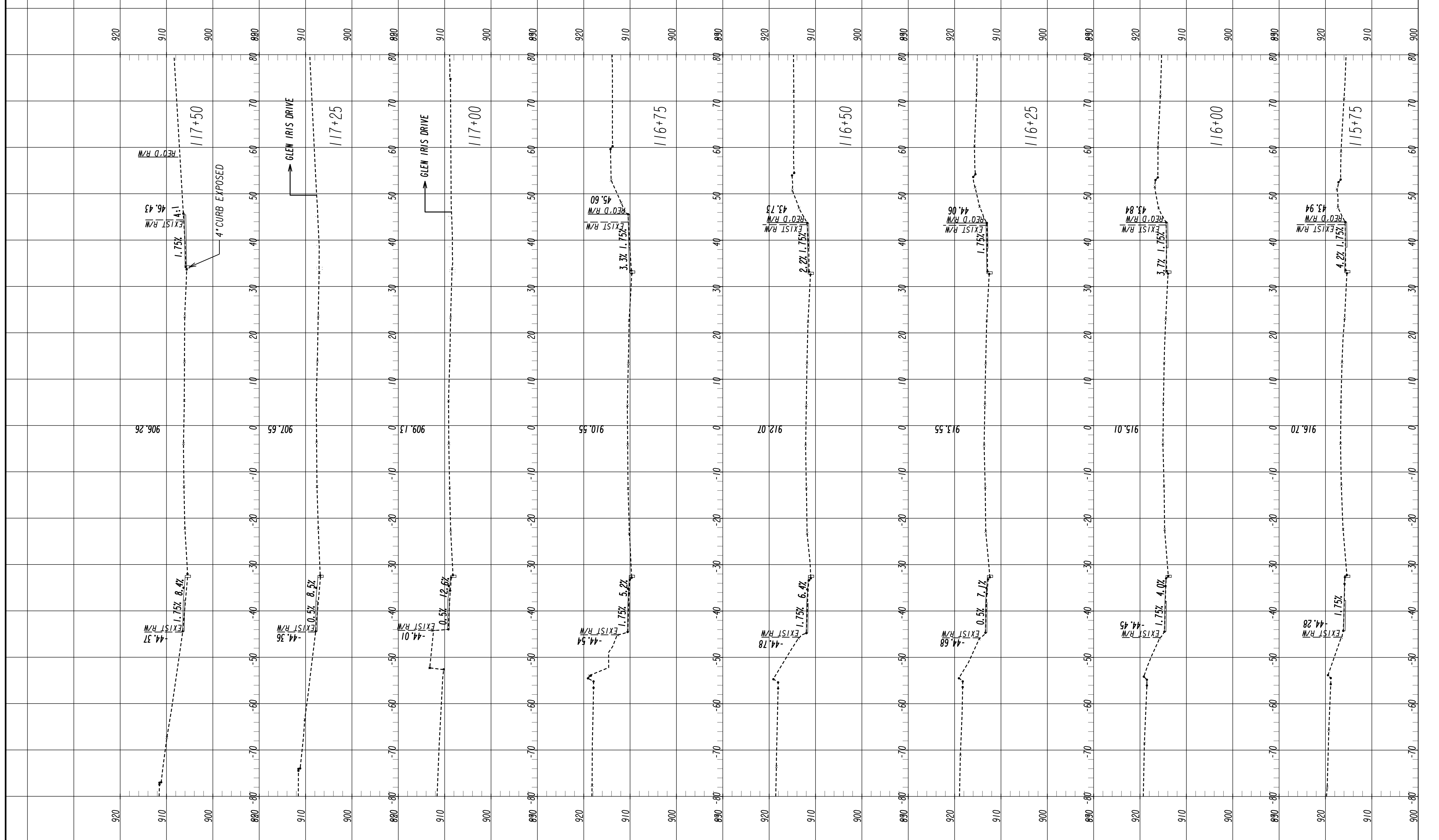
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REVISION DATES	

ATLANTA BELTLINE
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23-004



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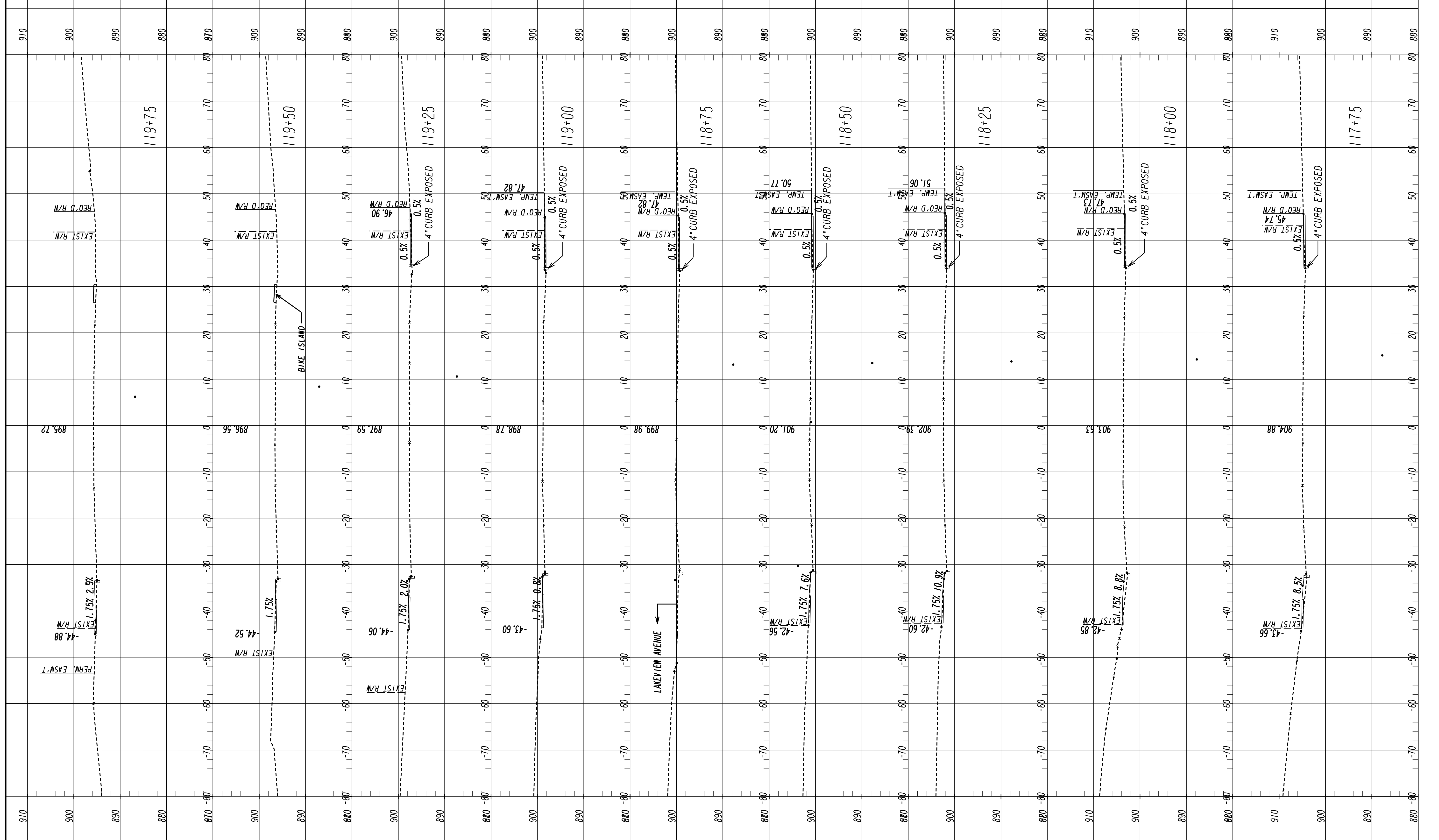
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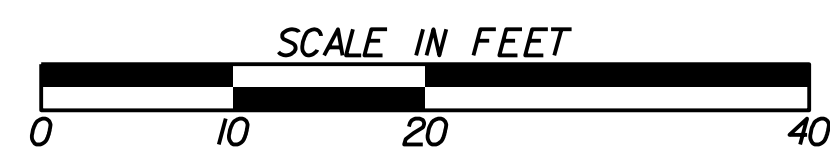
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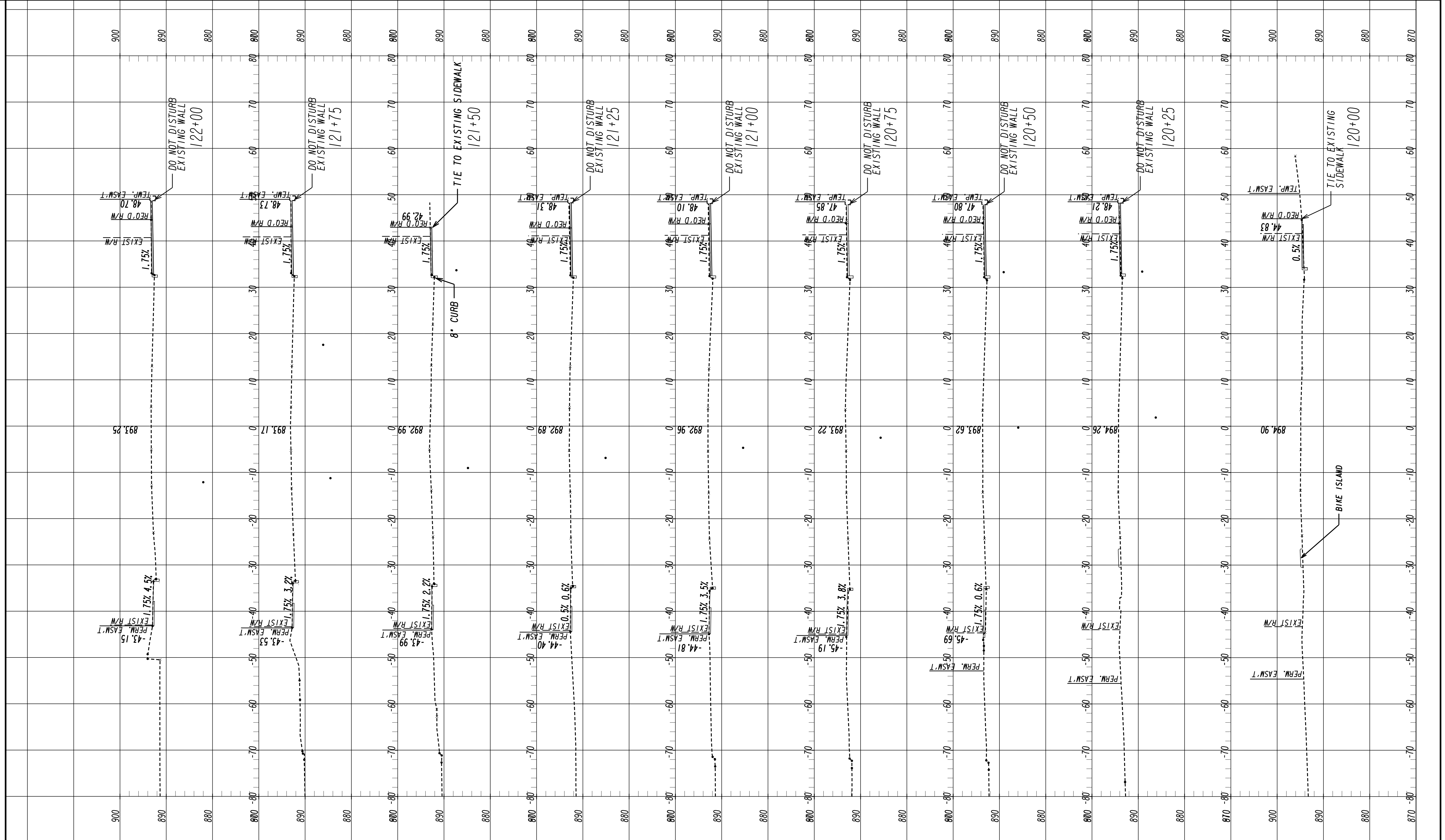


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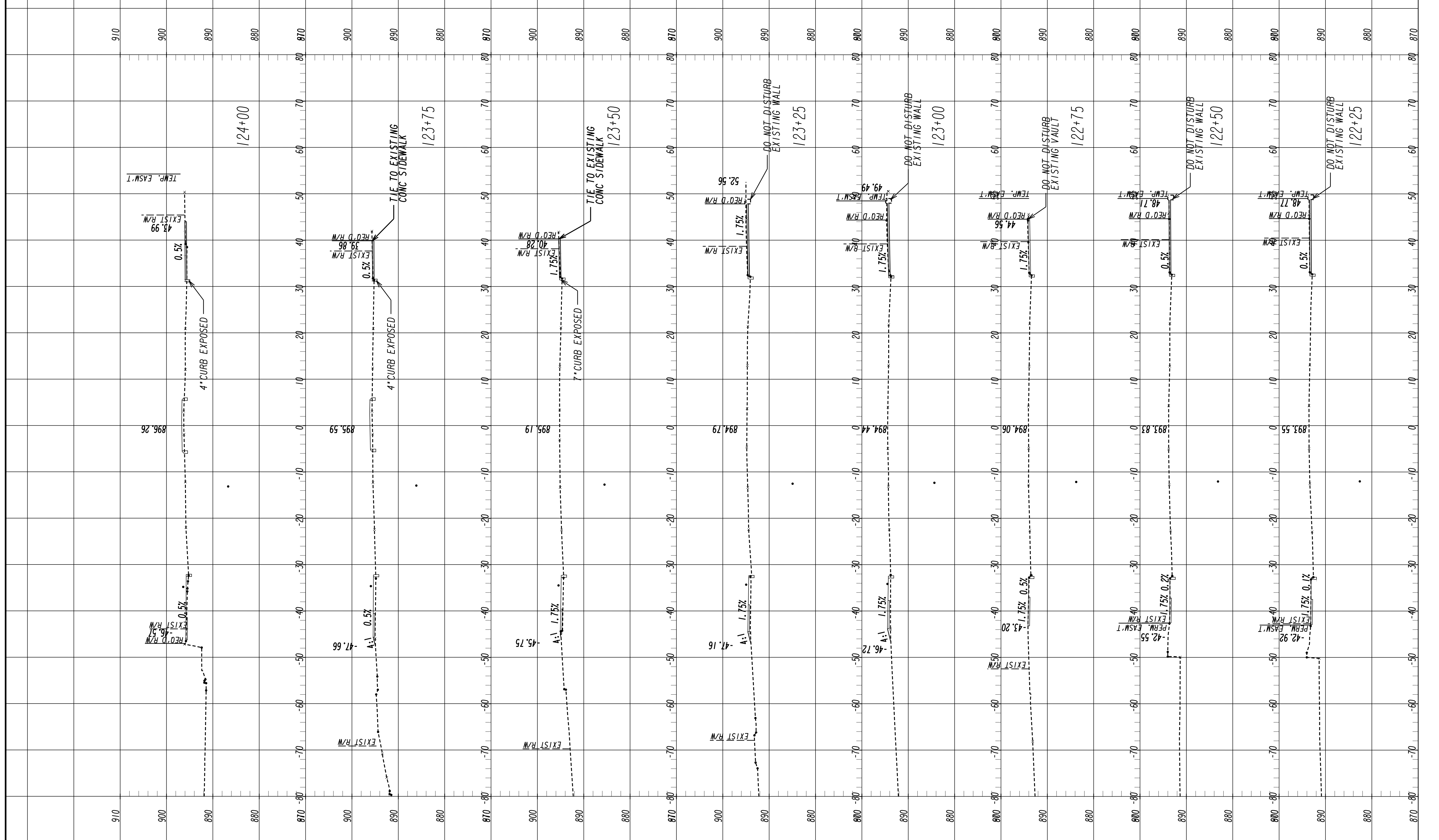
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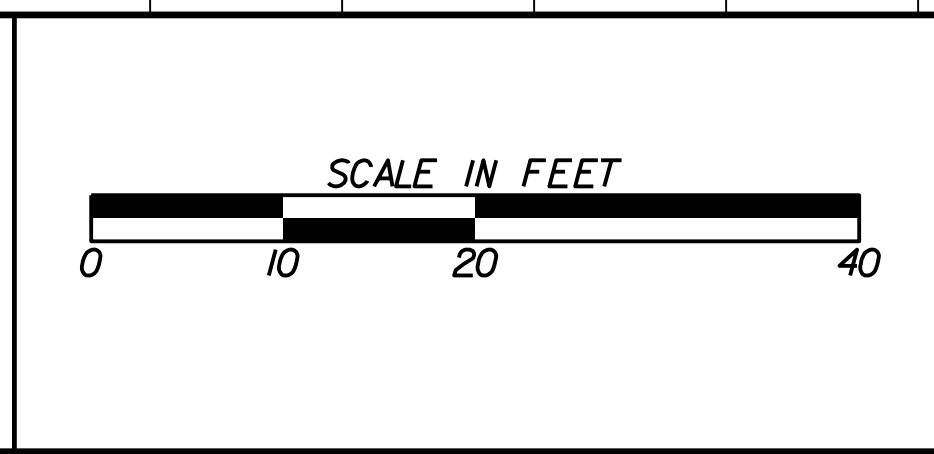
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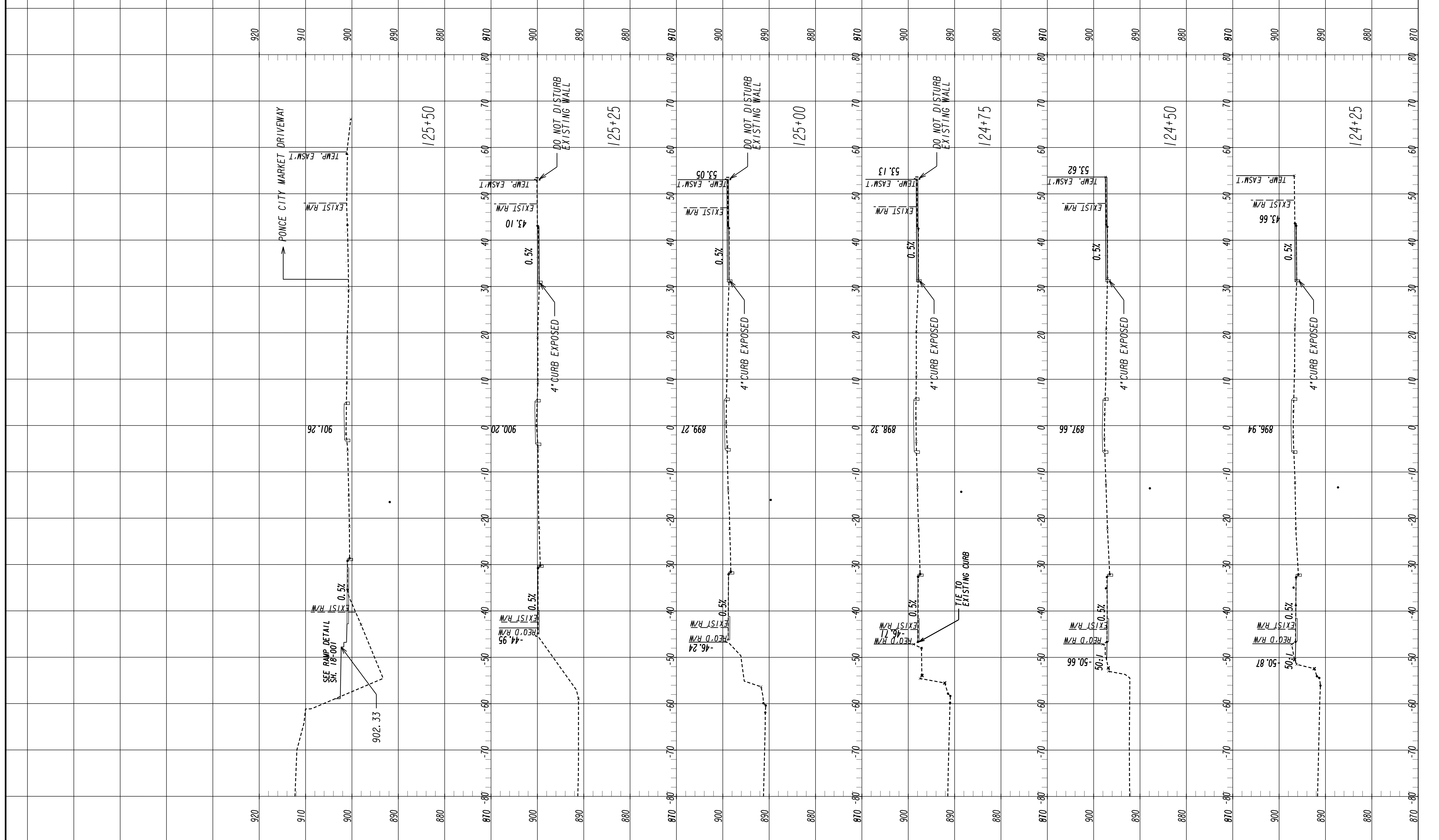


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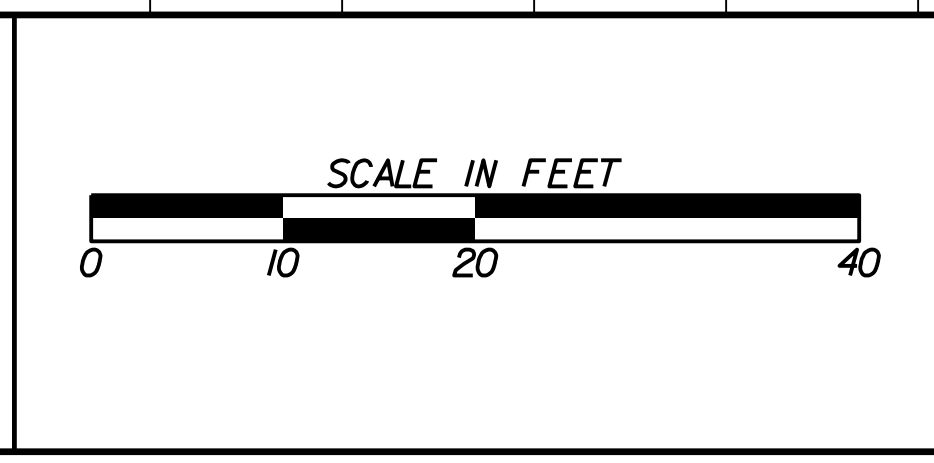


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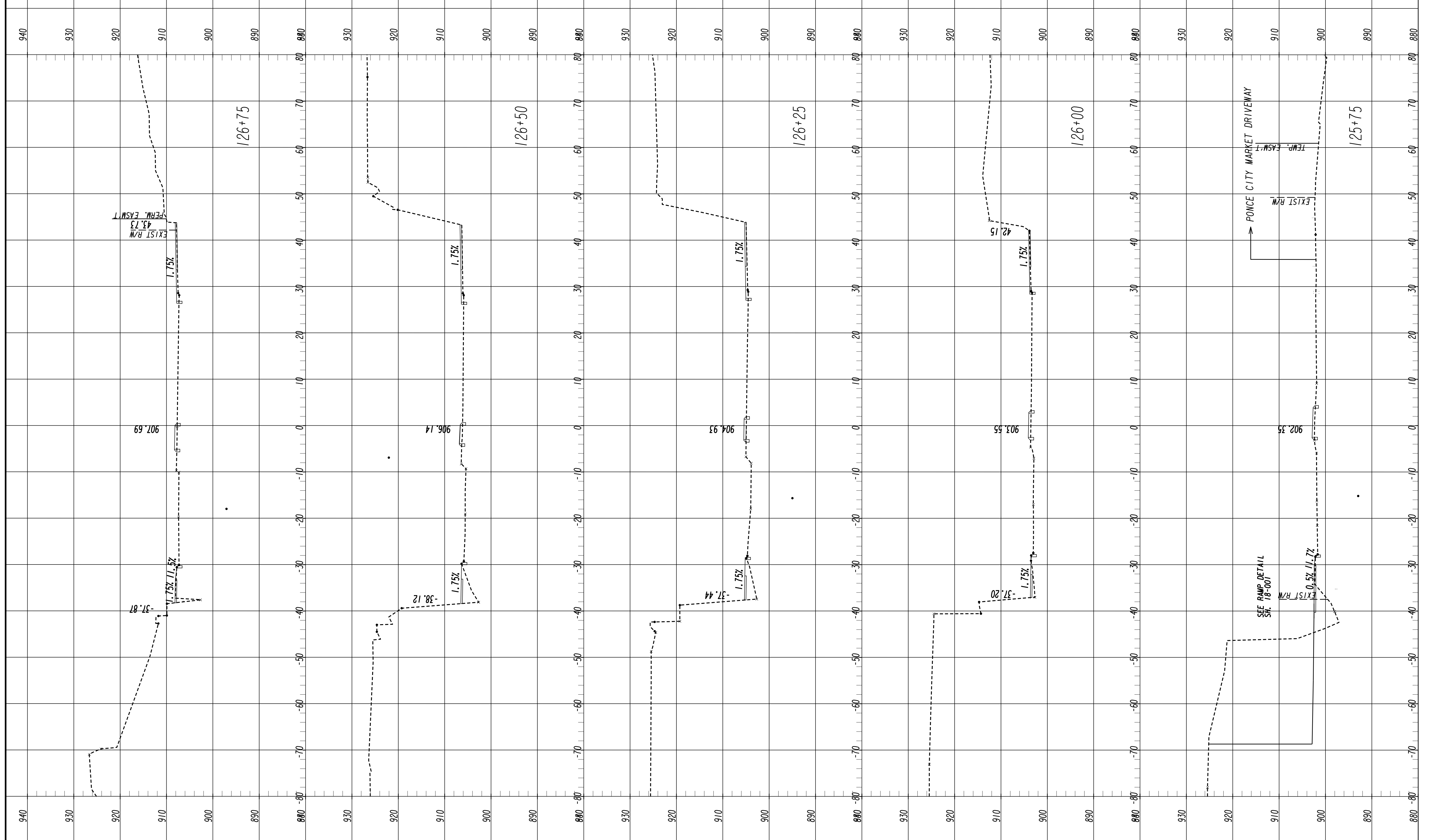


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REVISION	DATE	DESCRIPTION

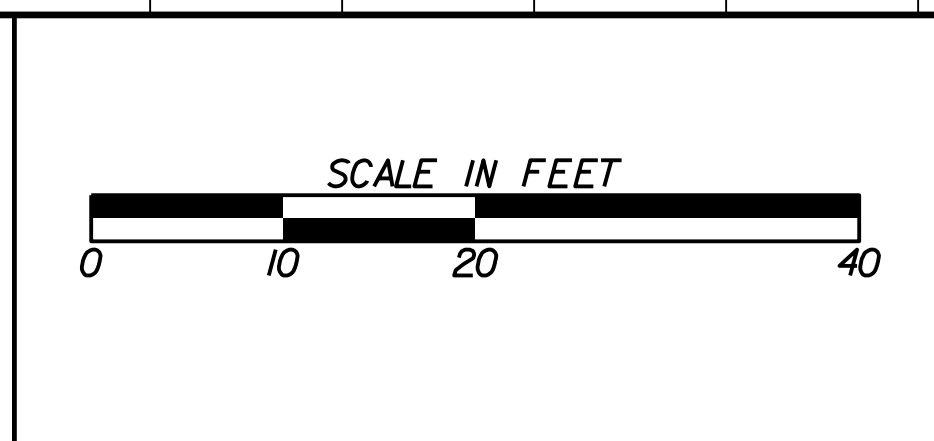
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6/30/2011 SUXEN

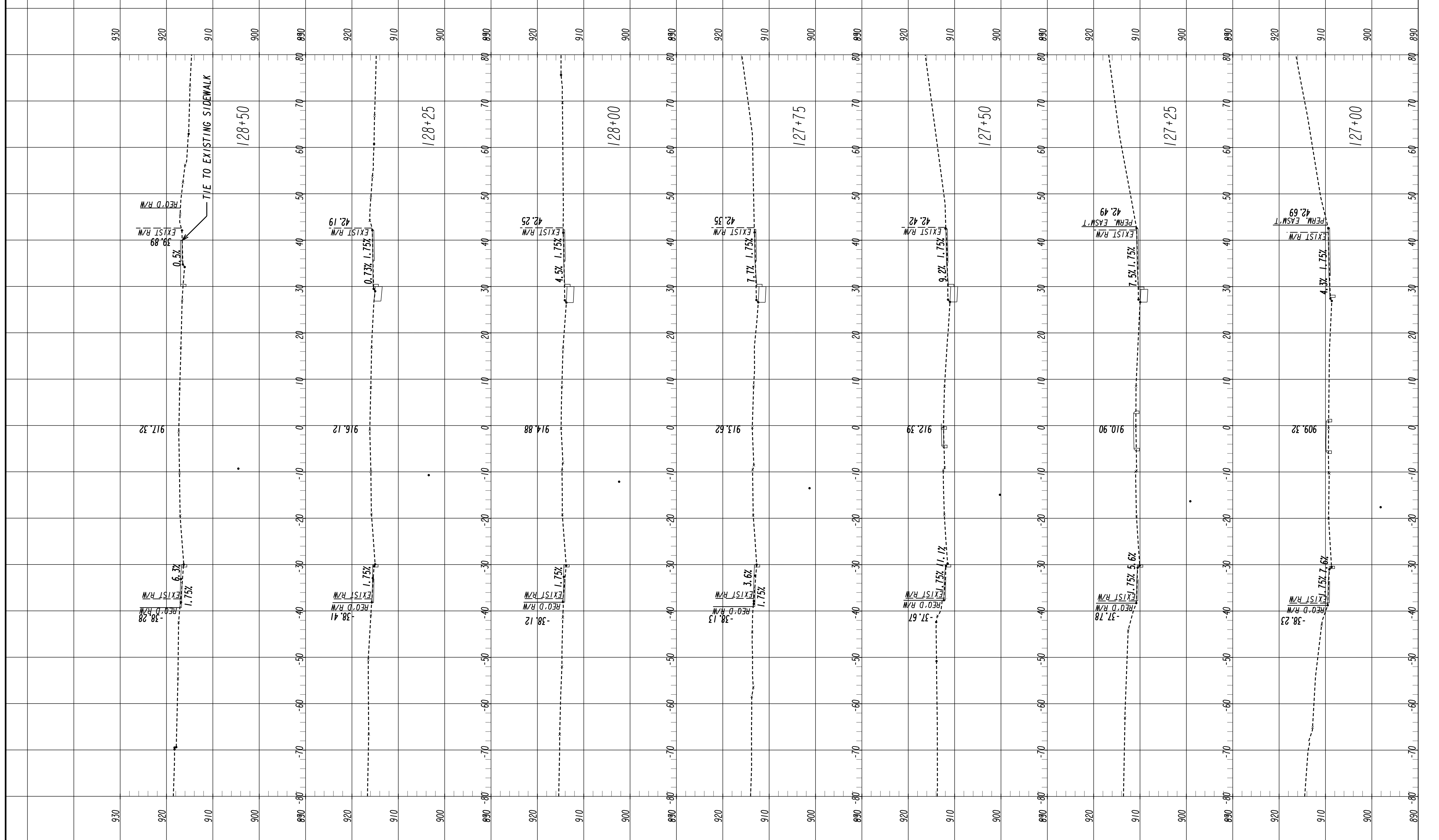


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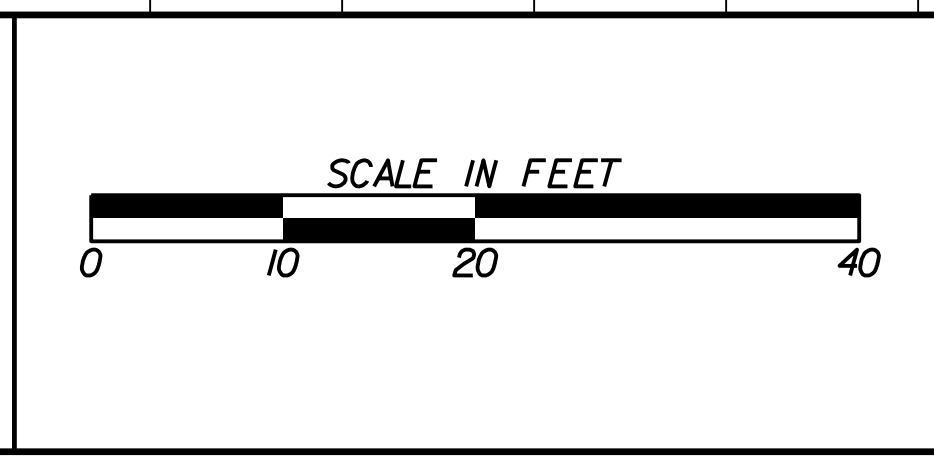
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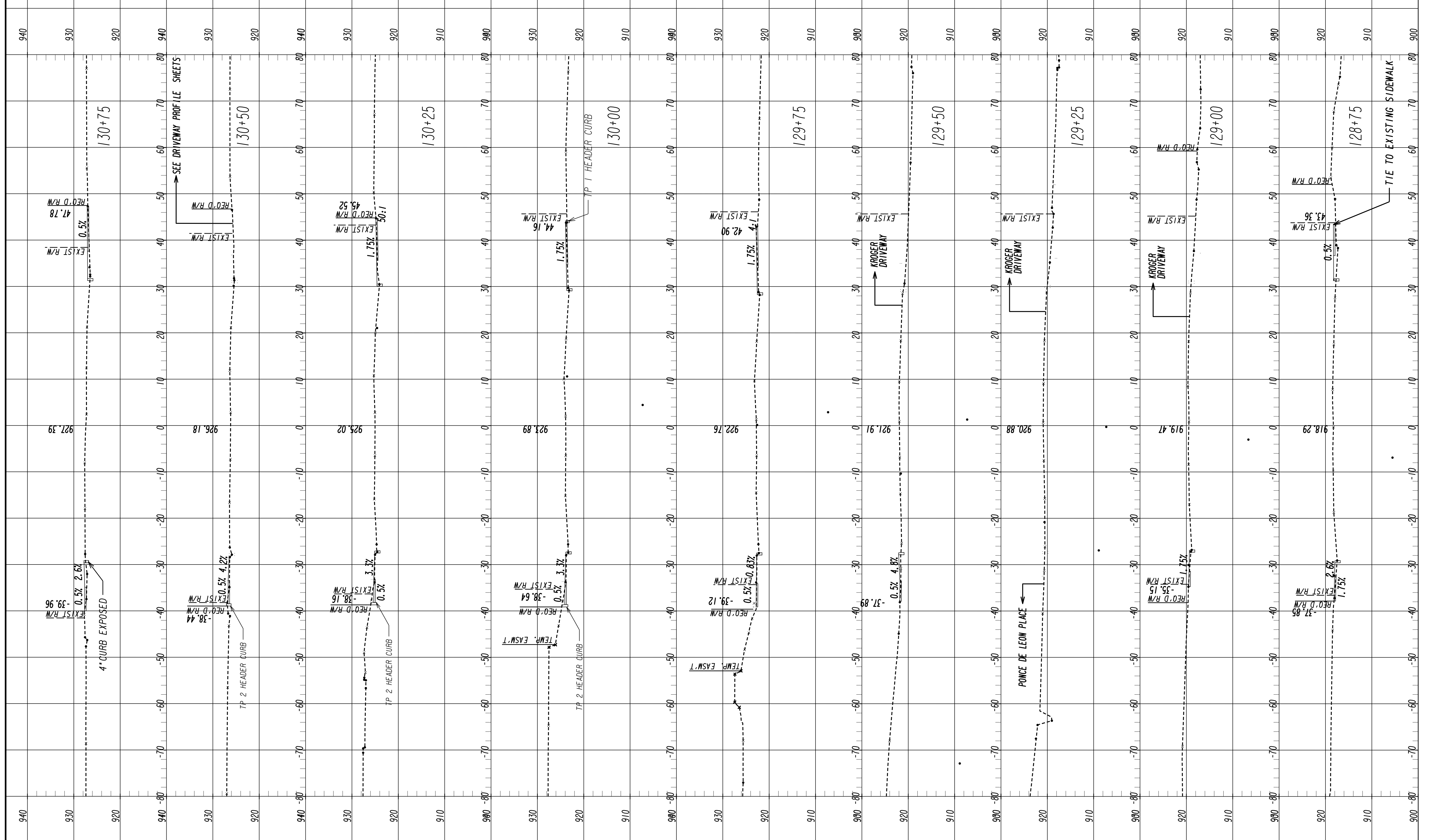


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 DRAWING No. 23-011



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Atlanta BeltLine

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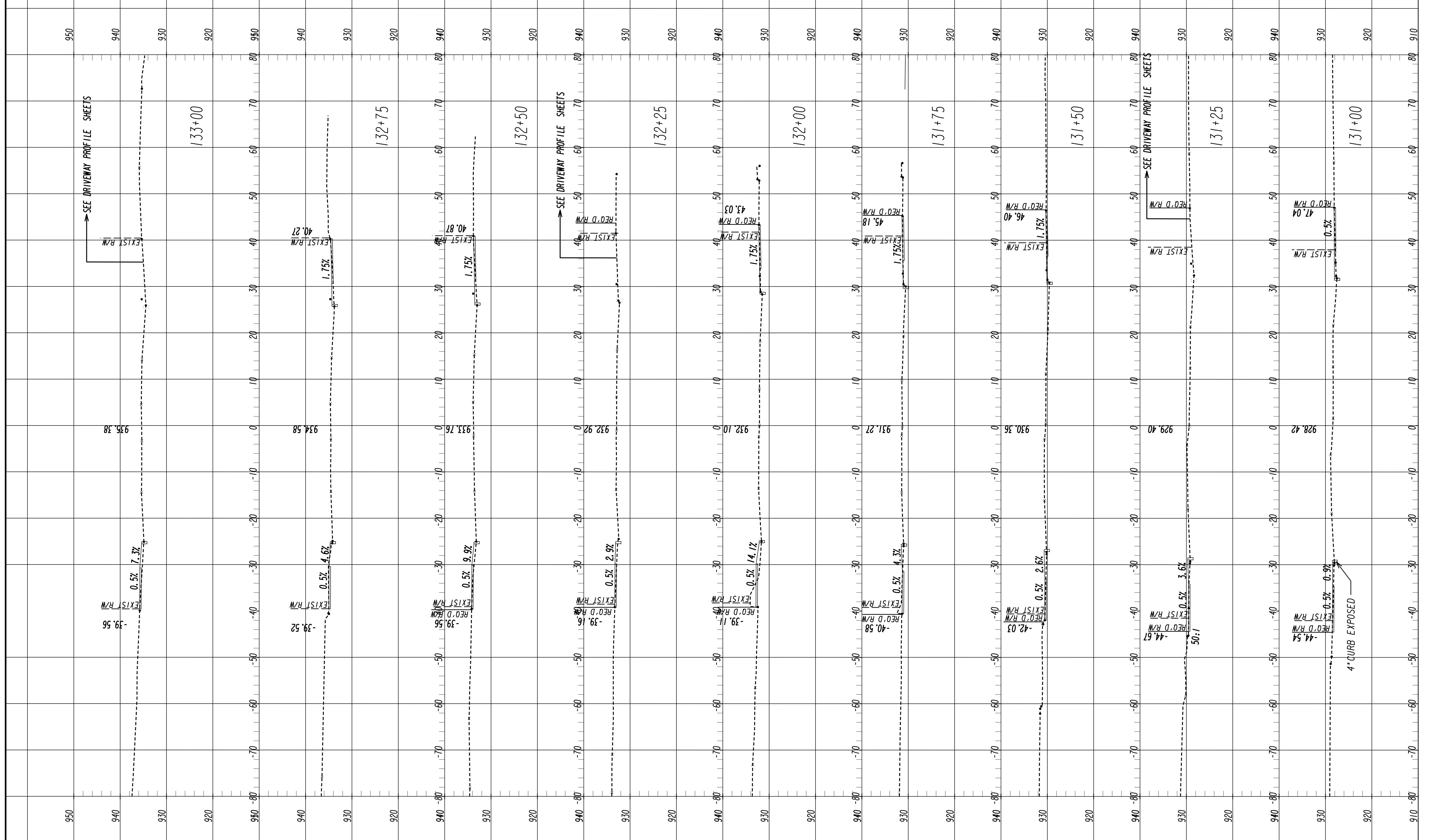
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REVISION	DATE	DESCRIPTION

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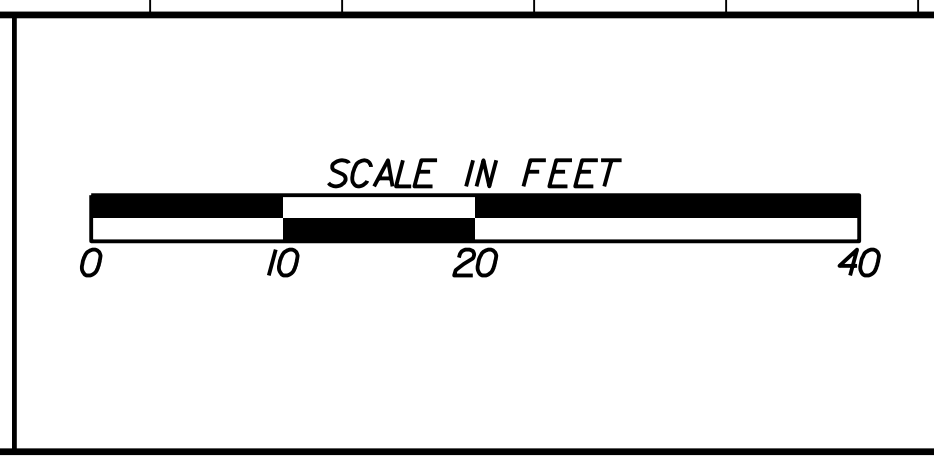
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6/30/2001 SUXEN

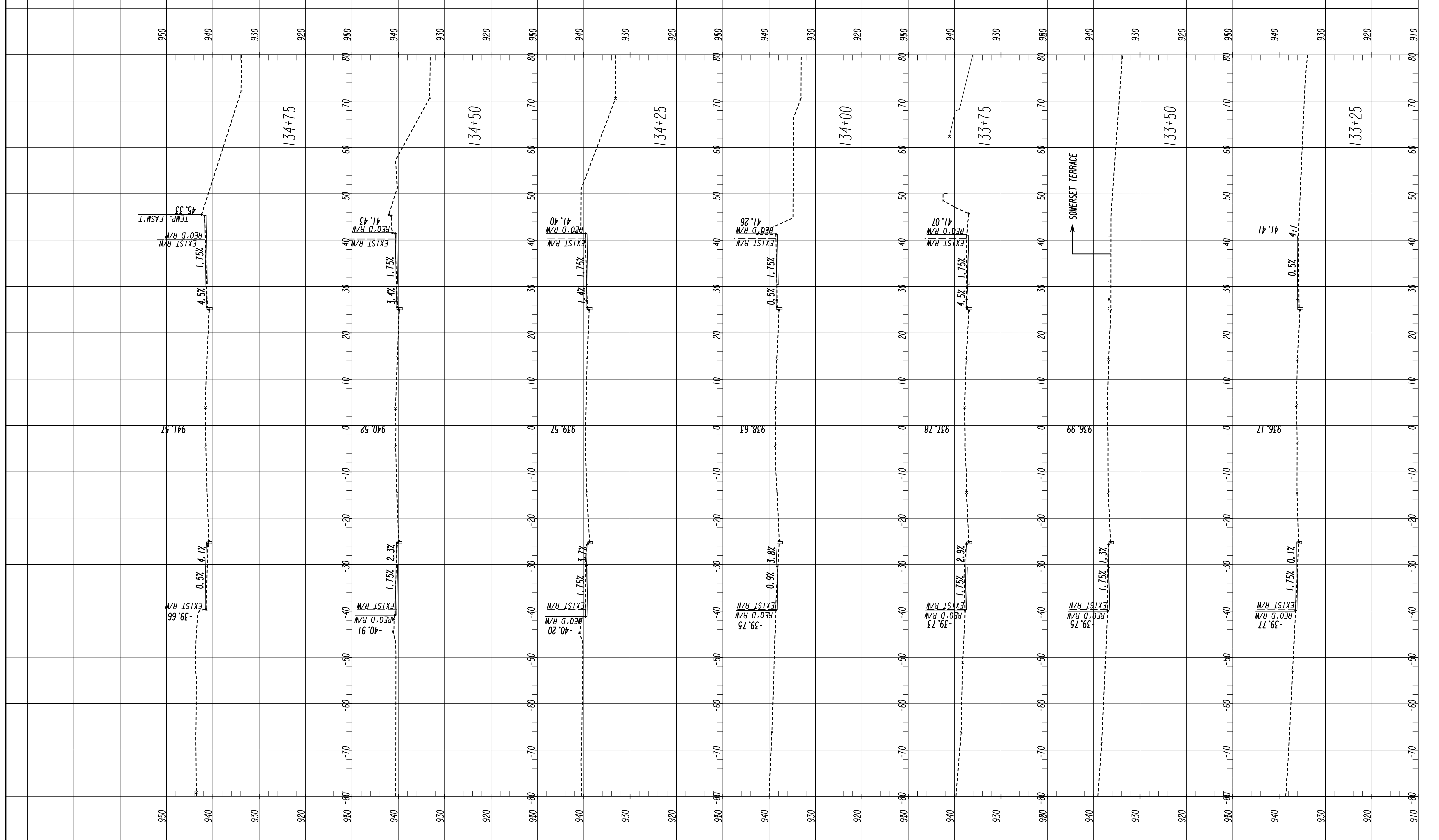


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REVISION	DATE	DESCRIPTION

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CROSS SECTIONS
 DRAWING No. 23-013



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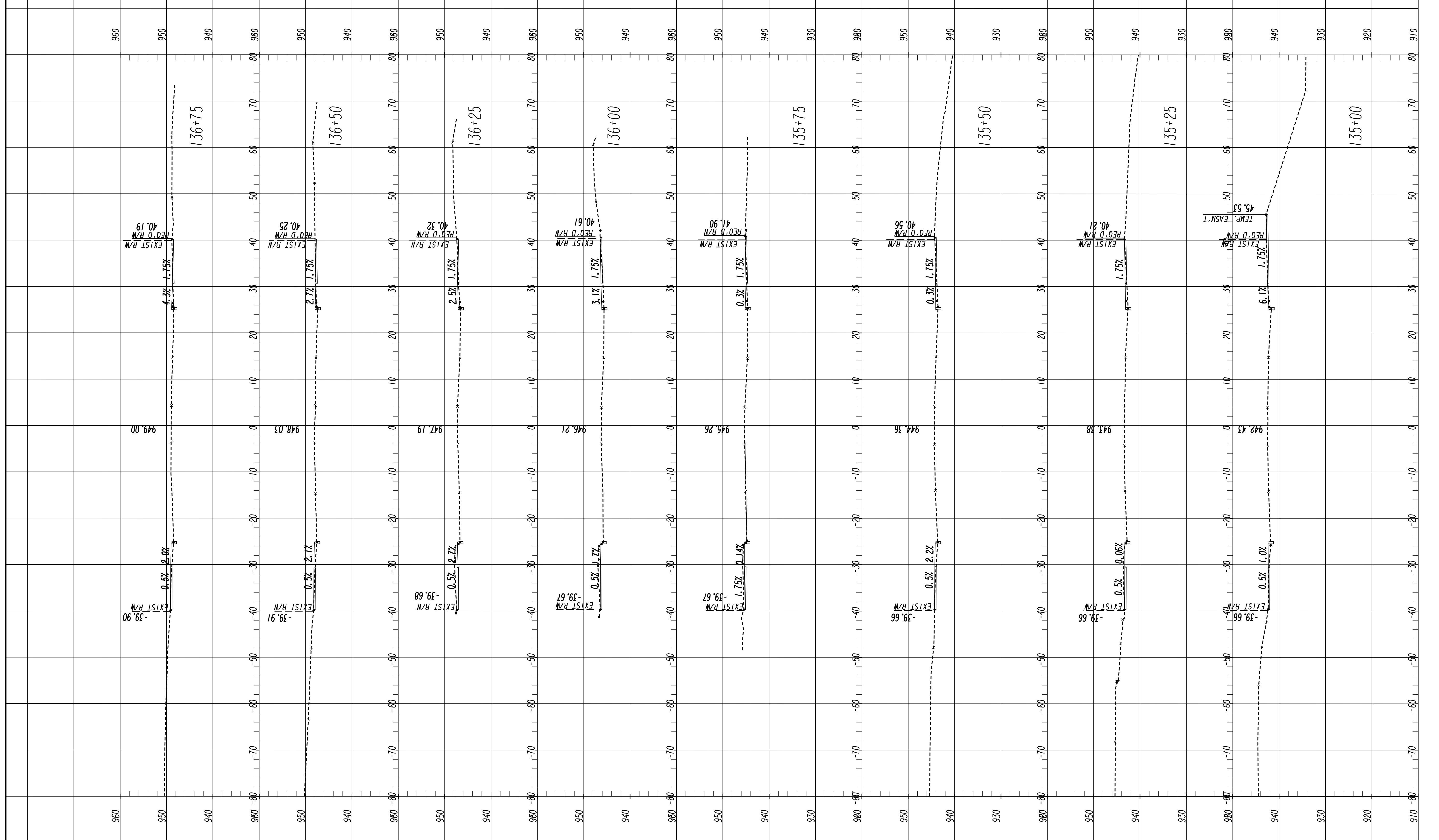
REVISION DATES

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CROSS SECTIONS

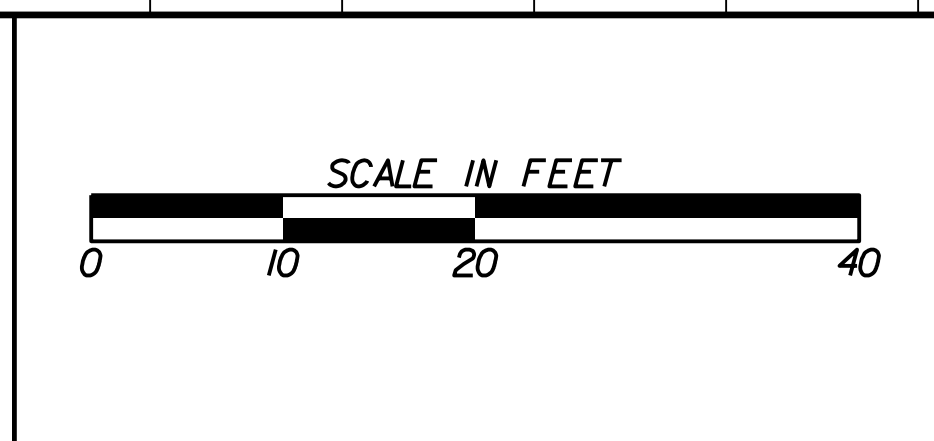
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6/30/2021 SUXEN

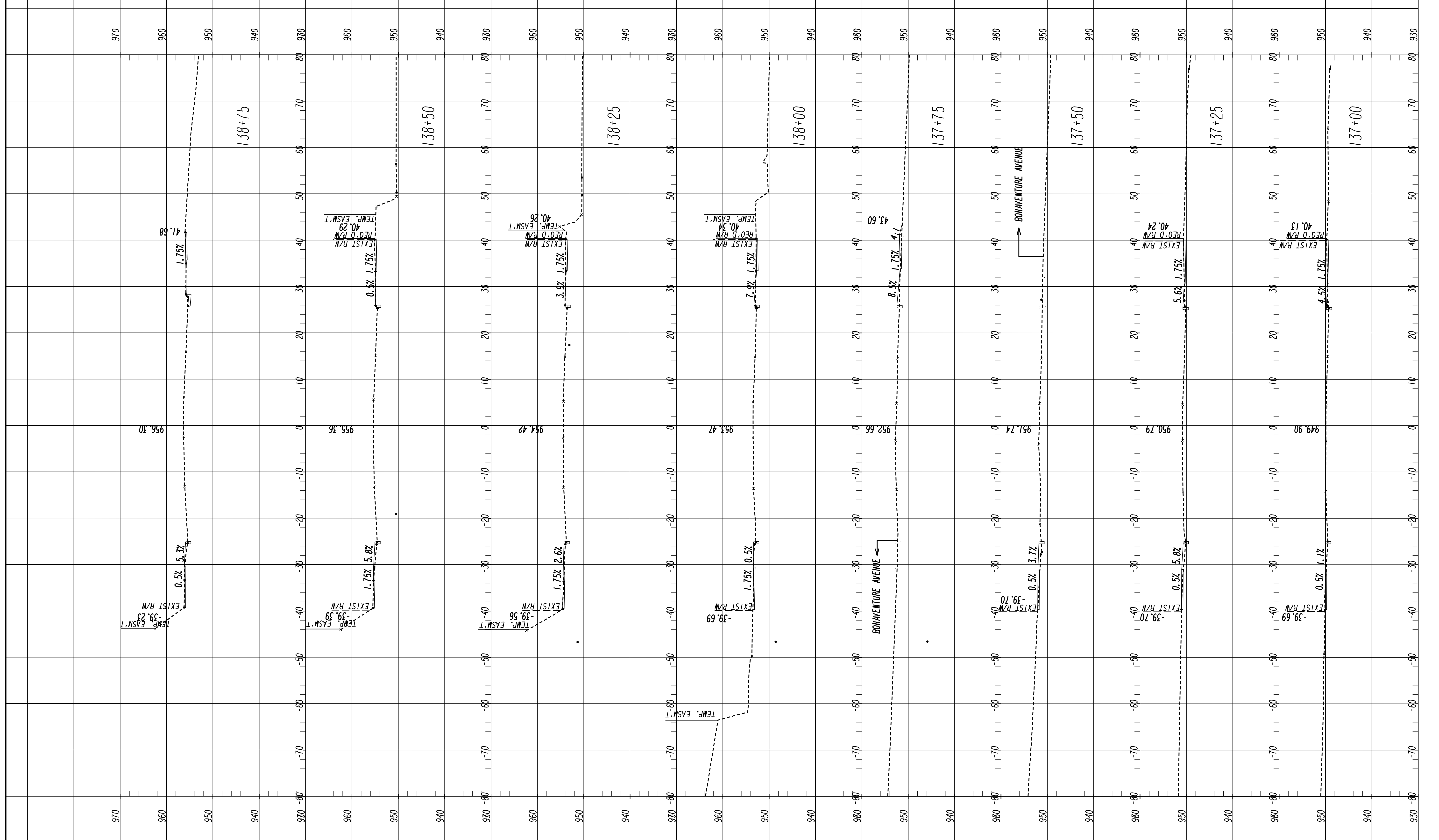


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REVISION DATES	

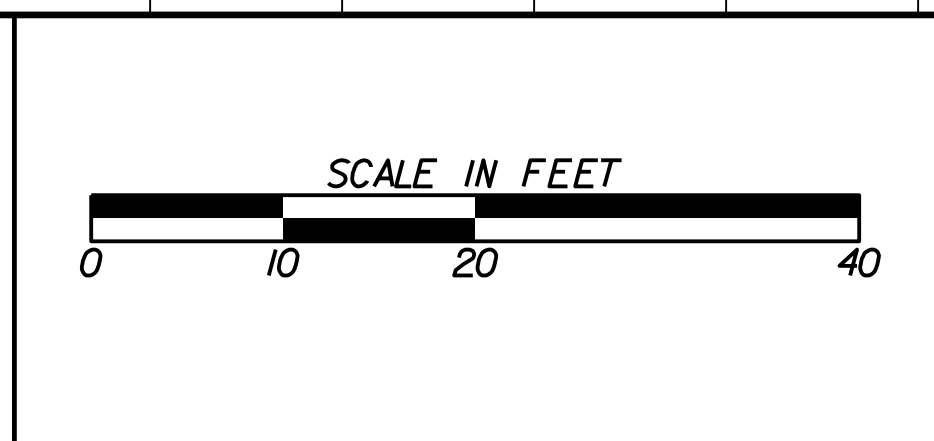
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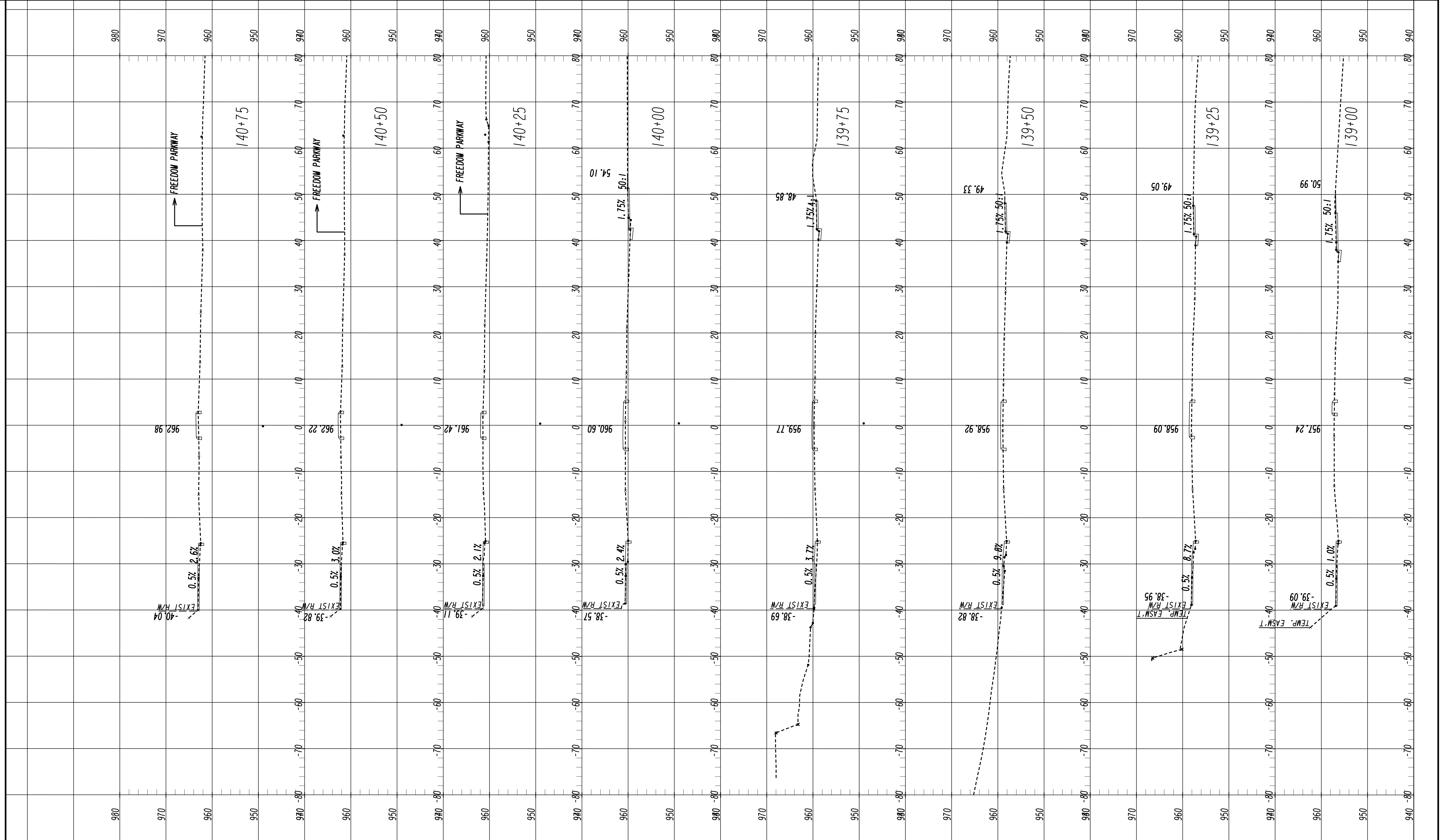


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REVISION DATES	

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CROSS SECTIONS
 DRAWING No. 23-016

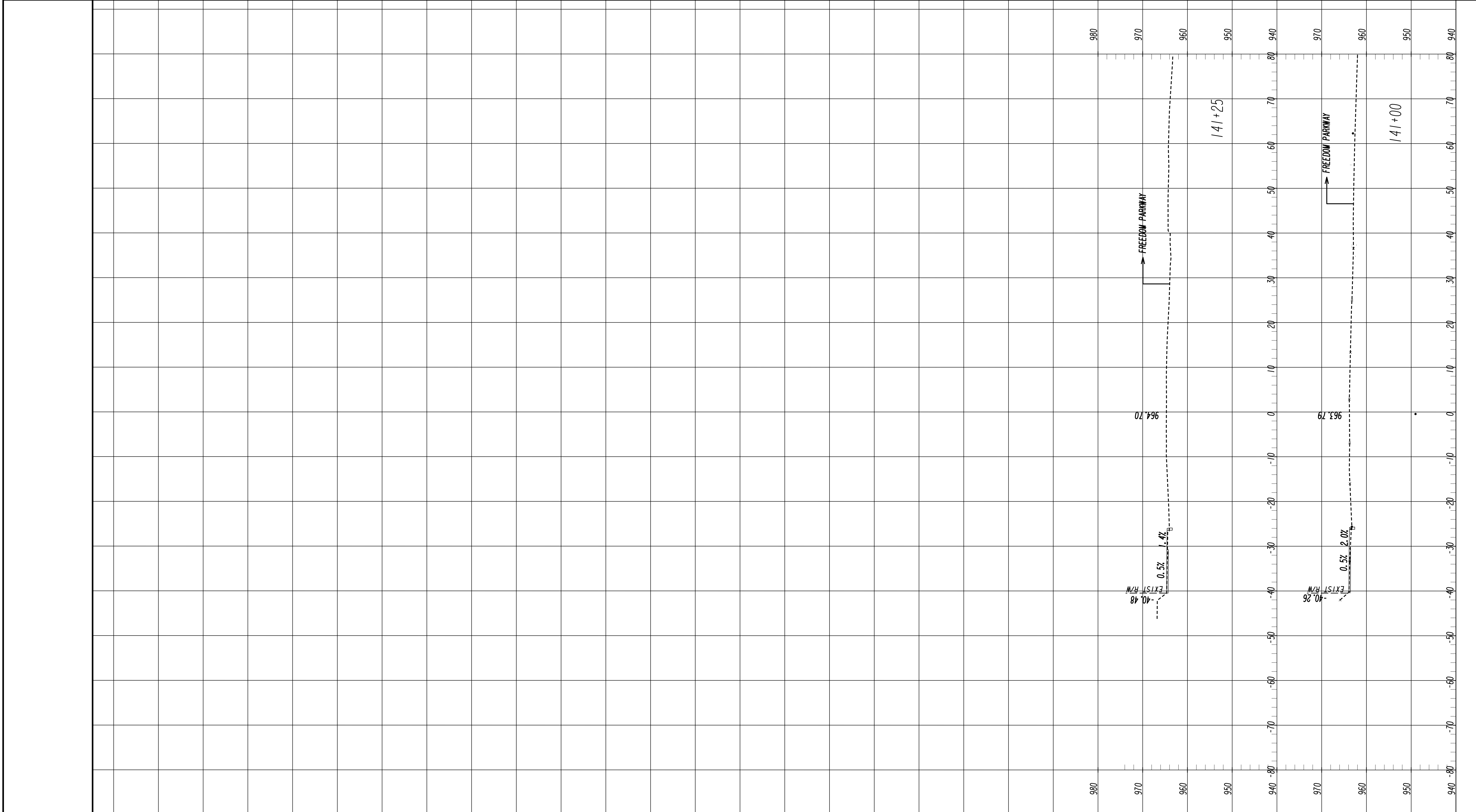


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REVISION	DATE	DESCRIPTION

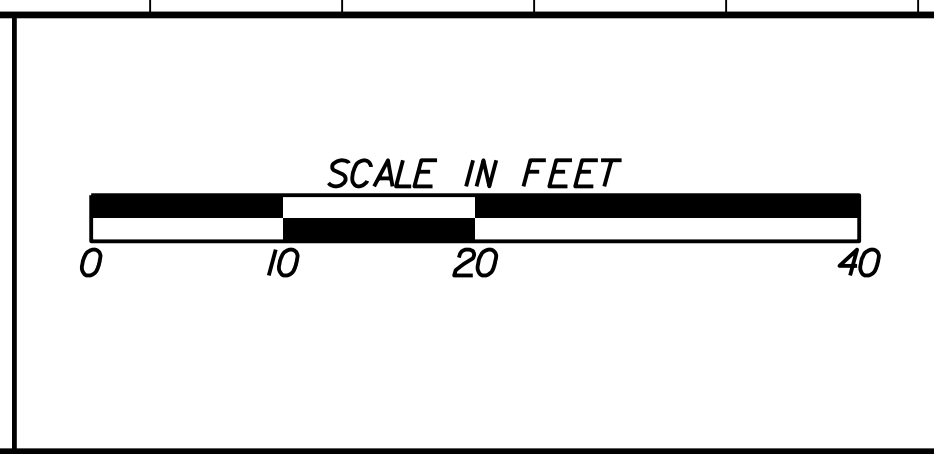
ATLANTA BELTLINE
 CROSS SECTIONS



6/30/2011 SUXEN



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REVISION	DATE

ATLANTA BELTLINE
CROSS SECTIONS
 DRAWING No.
23-018

UTILITY LINECODES

EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
			ELECTRIC
			ELECTRIC/TELECOMMUNICATIONS
			ELECTRIC/CABLE TV
			ELECTRIC/TRAFFIC CONTROL
			ELECTRIC/TELECOMMUNICATIONS/CABLE TV
			ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
			ELECTRIC/CABLE TV/TRAFFIC CONTROL
			ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
			GUY WIRE
			TELECOMMUNICATIONS
			TELECOMMUNICATIONS/TRAFFIC CONTROL
			TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
			TELECOMMUNICATIONS/CABLE TV
			CABLE TV
			CABLE TV/TRAFFIC CONTROL
			TRAFFIC CONTROL
			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)

FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS

UTILITY SYMBOLS

EXISTING	PROPOSED	TEMPORARY	EXISTING	PROPOSED	TEMPORARY	DESCRIPTION
						UTILITY POLE/GUY POLE
						CLEANOUT
						SANITARY SEWER MANHOLE
						AIR RELEASE VALVE
						GREASE TRAP
						SANITARY SEWER FORCE MAIN VALVE
						GAS VALVE
						GAS METER
						GAS MANHOLE
						GAS PRESSURE REGULATOR
						GAS VAULT
						GAS TEST STATION
						PETROLEUM VALVE
						TRAFFIC CONTROL MANHOLE/ ELECTRIC COMMUNICATIONS BOX
						TRAFFIC CONTROL PEDESTRIAN SIGNAL/BUTTON POST
						FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS
						SUBSCRIBER LOOP CARRIER (aka "SLICK")
						PHONE BOOTH
						CABLE TV PEDESTAL
						CABLE TV MANHOLE
						WATER 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

QUALITY LEVELS AND DEFINITIONS

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

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

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

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

TELEPHONE PAIR SIZE TABLE

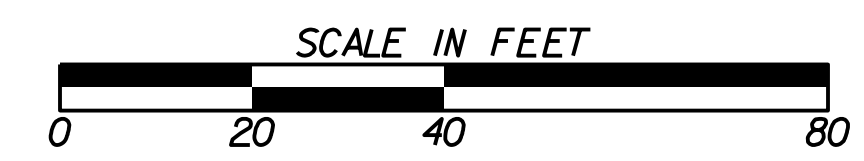
TELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 IN



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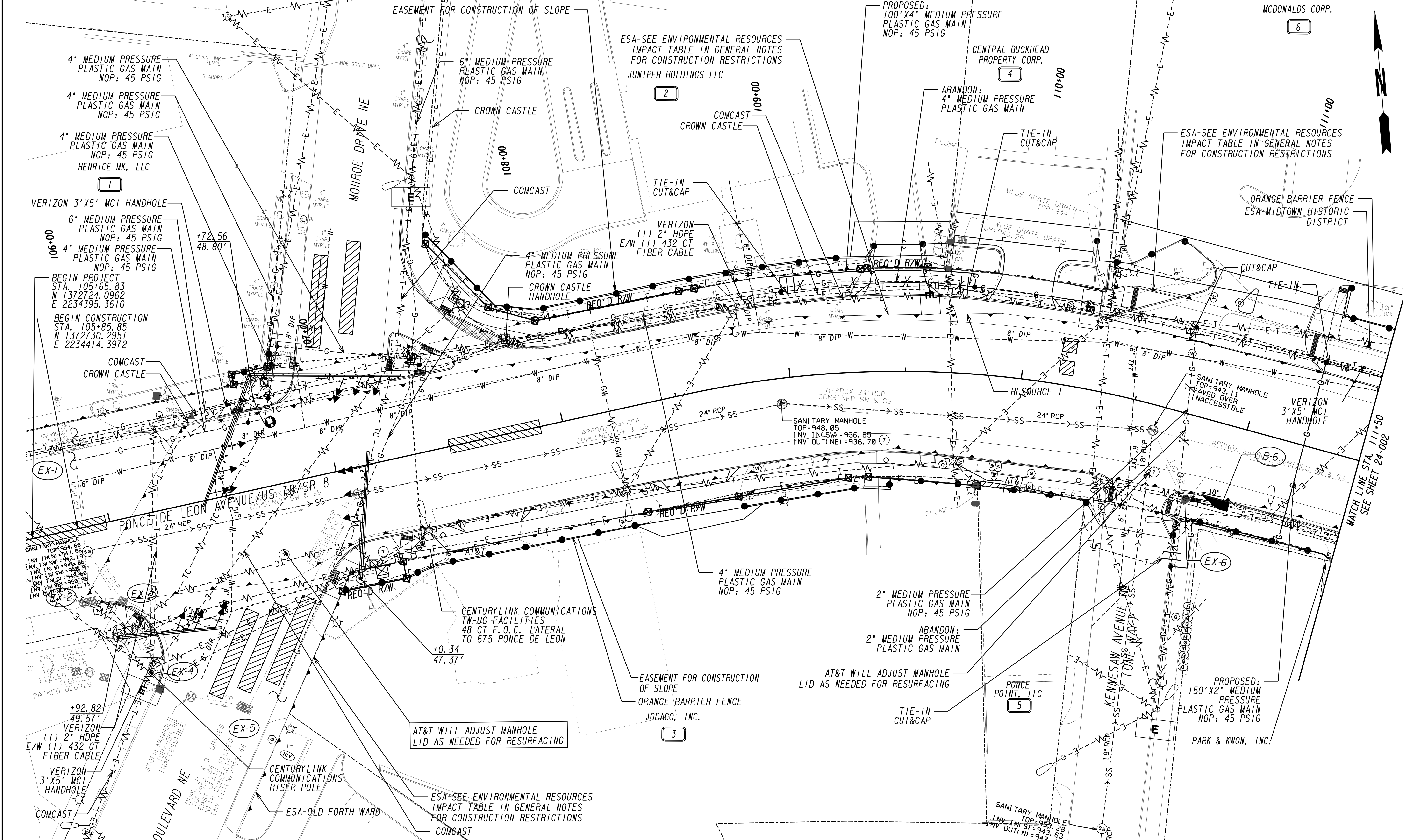
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UTILITY PLANS

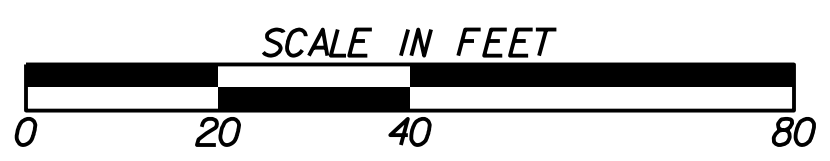
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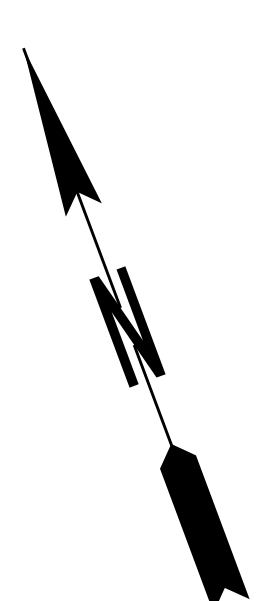
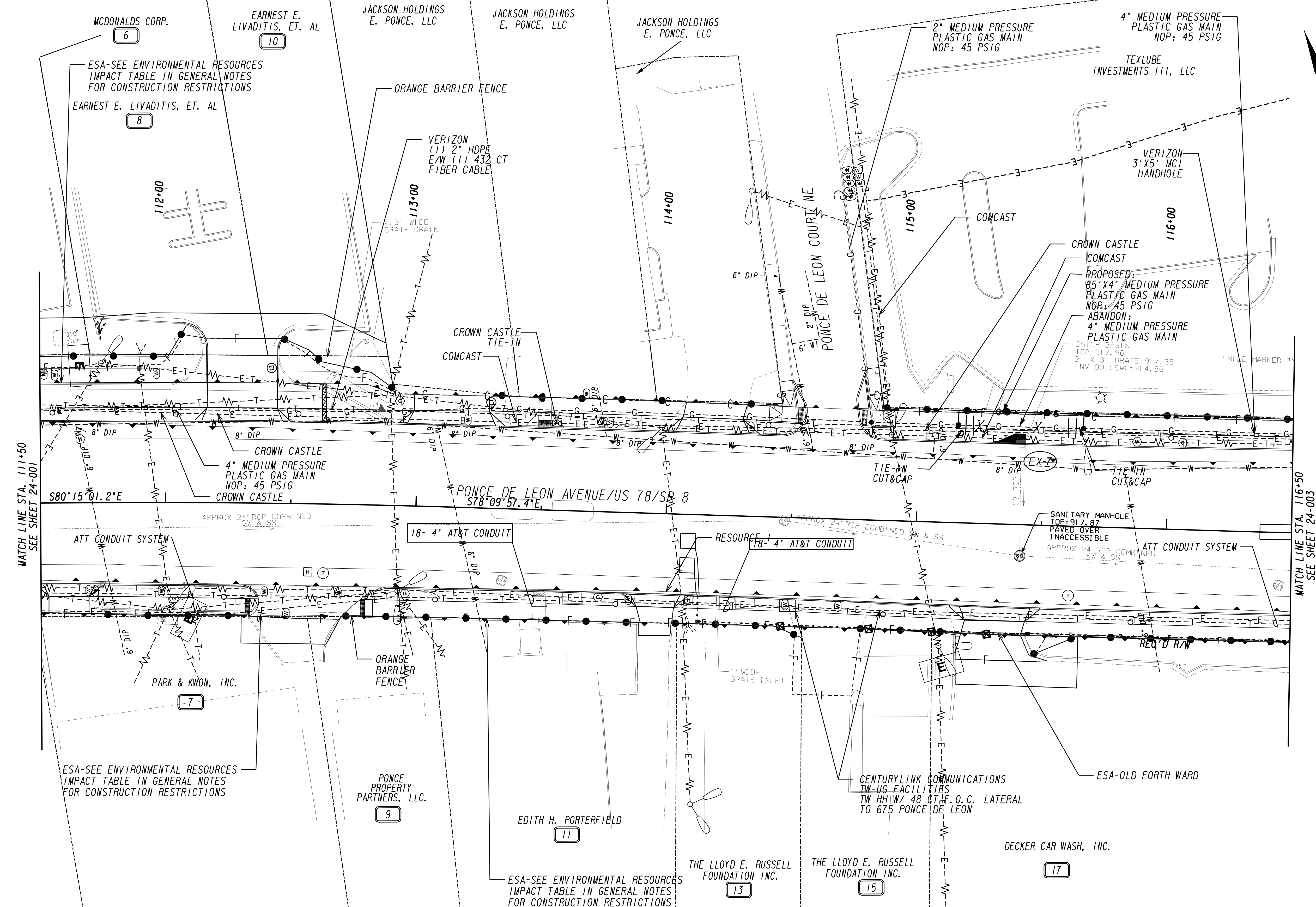
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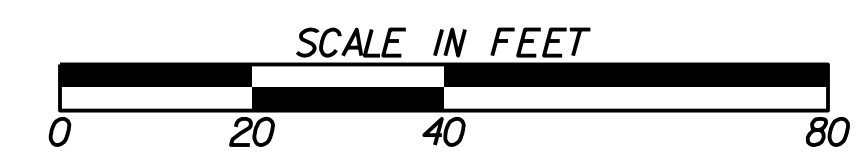
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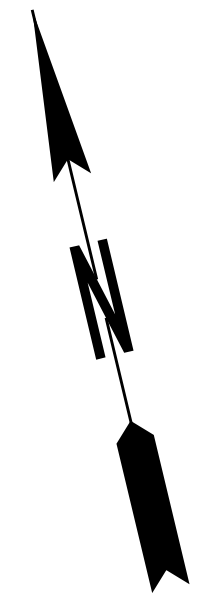
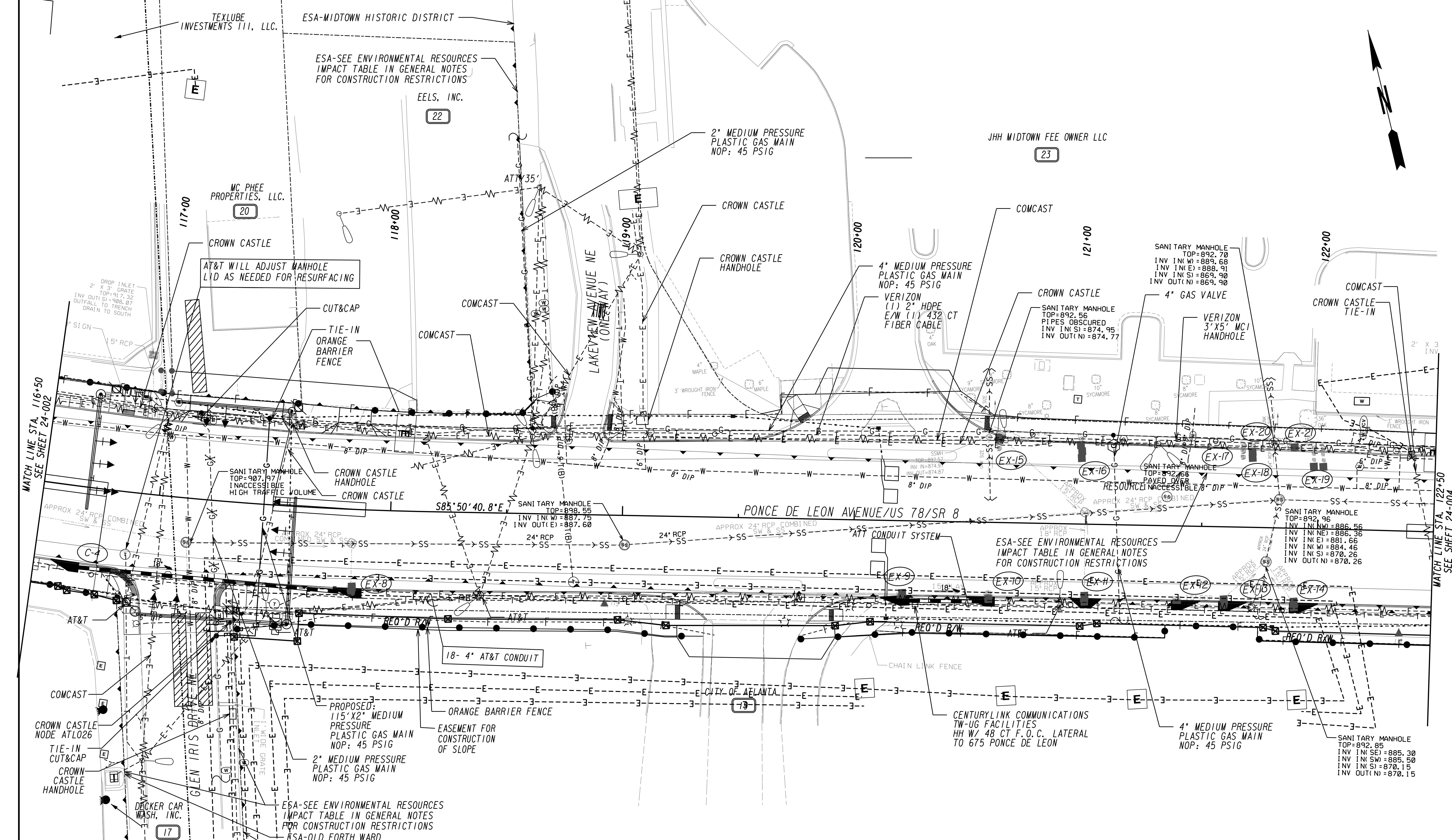
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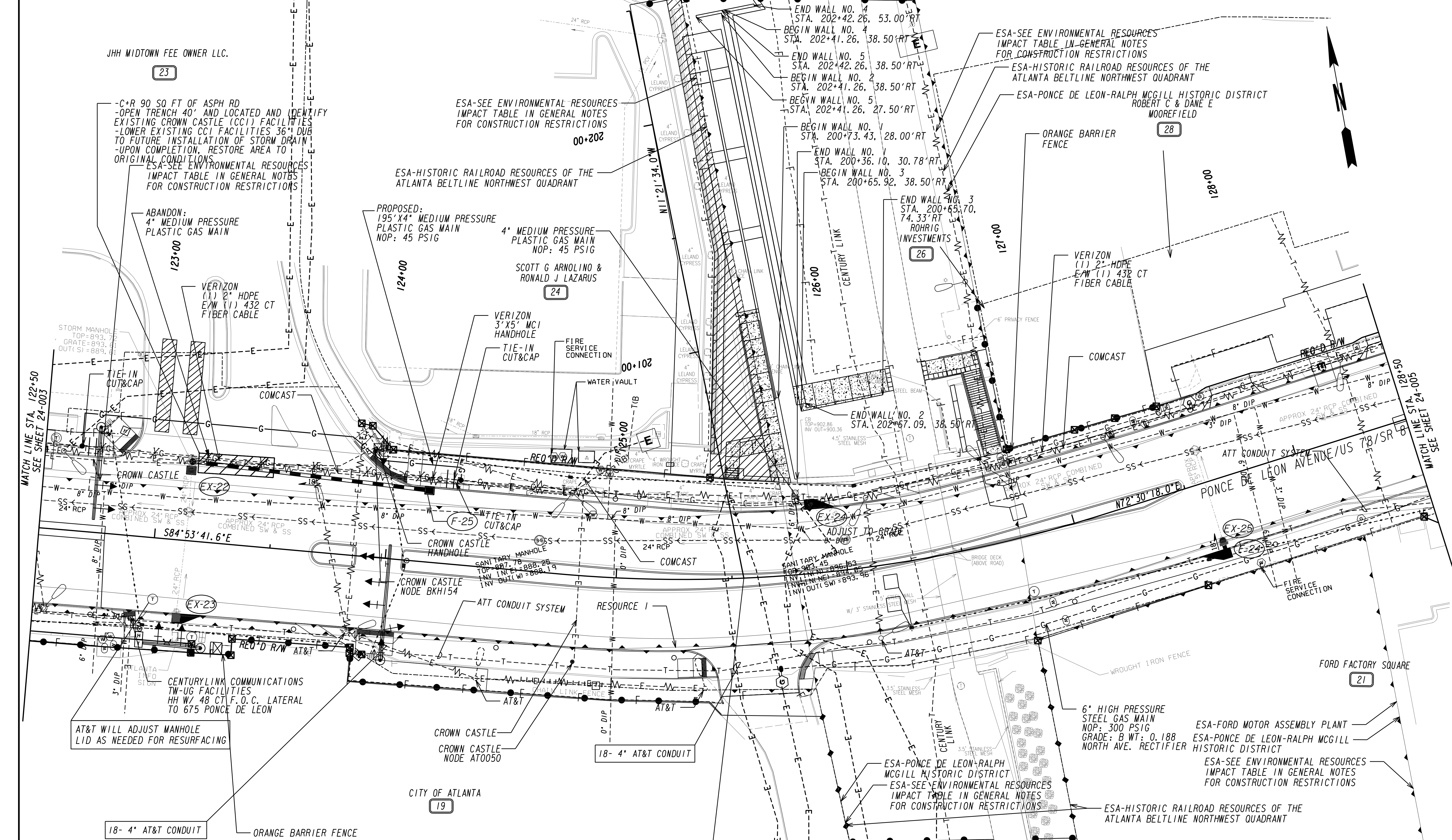
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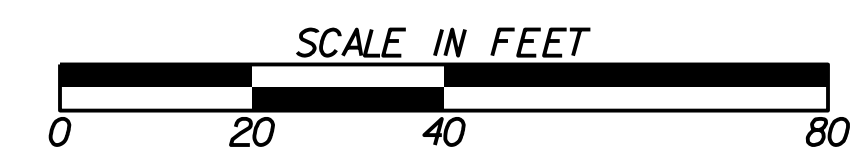
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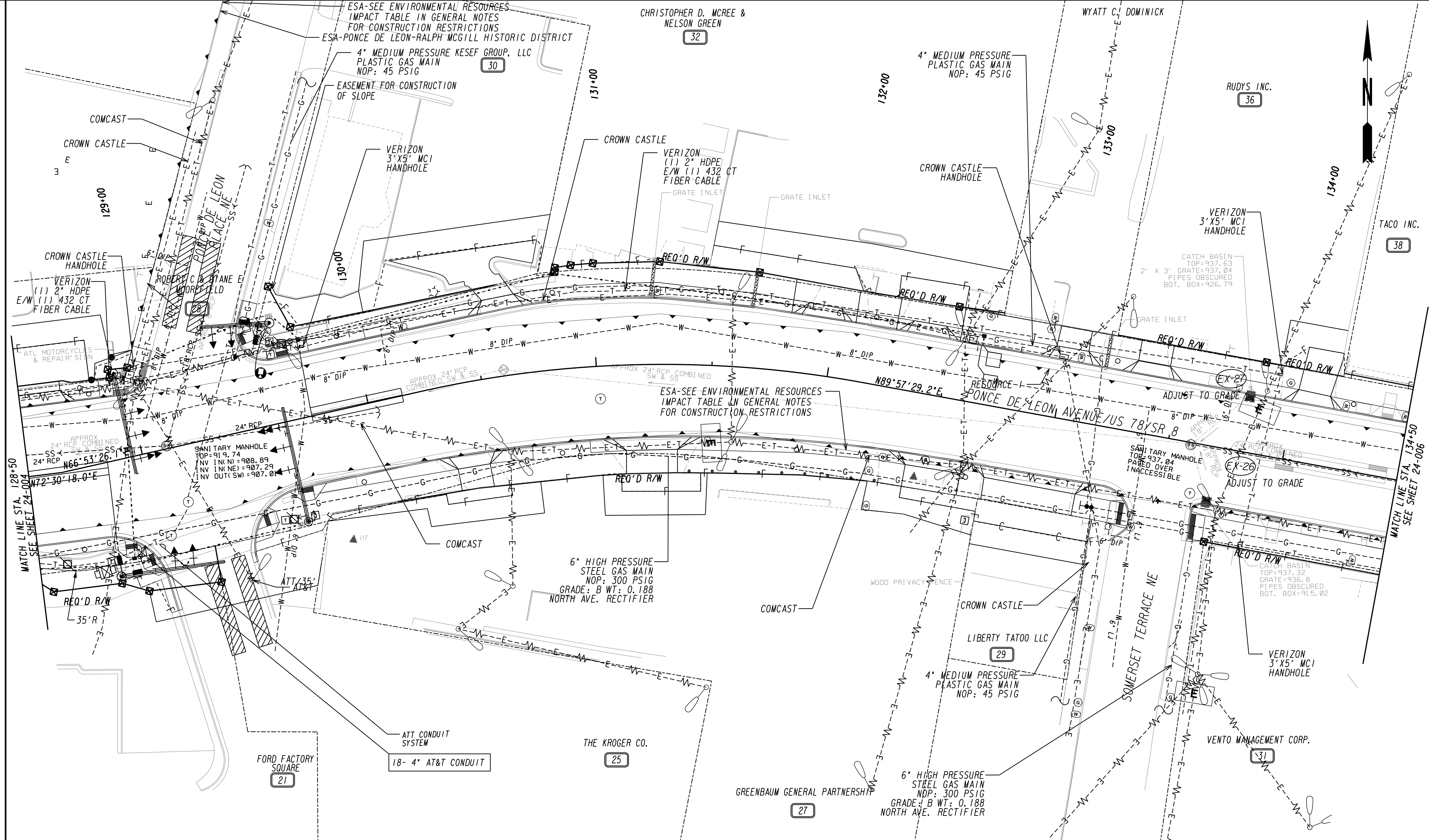
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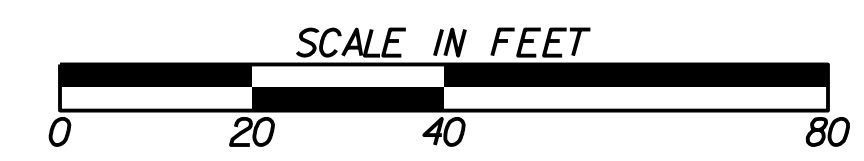
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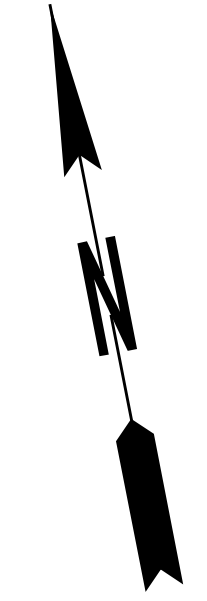
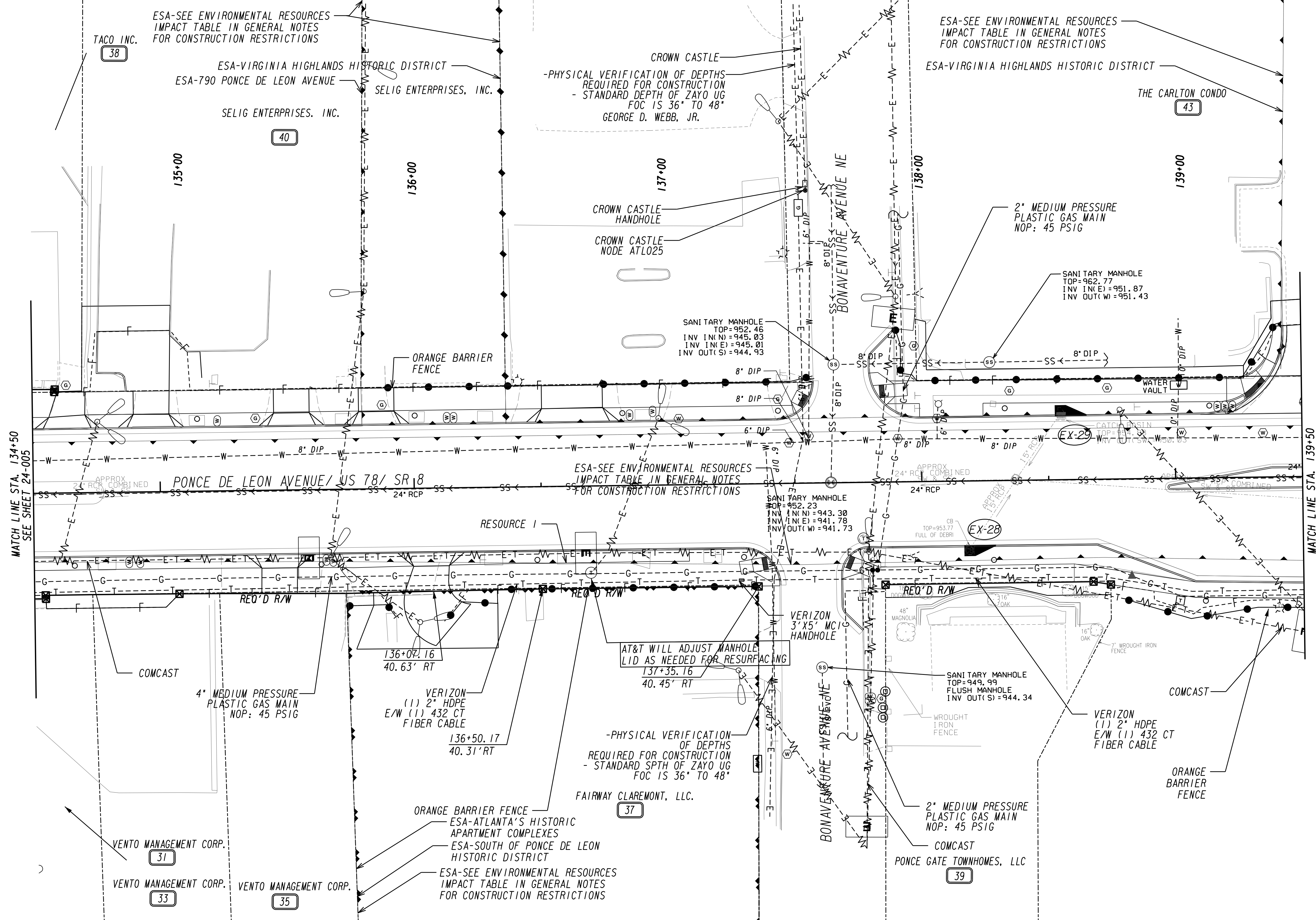
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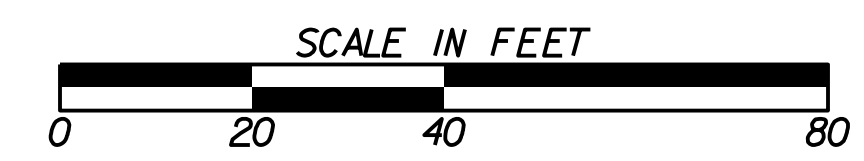
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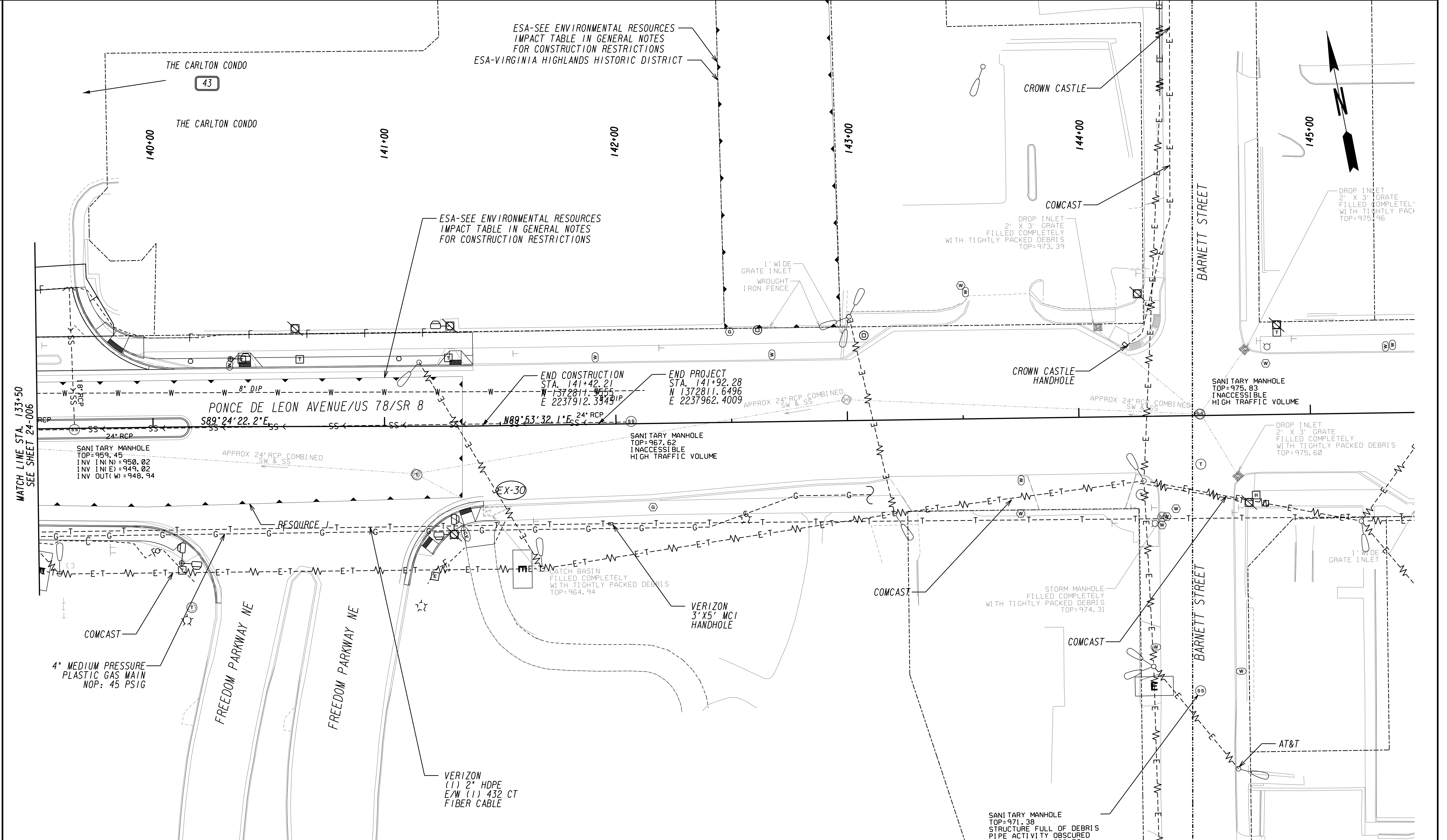
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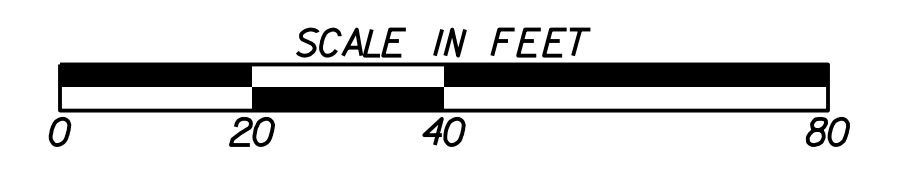
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 OFFICE:
UTILITY PLANS

DRAWING No.
24-007

ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

1.01 SCOPE:

THESE SPECIFICATIONS AND THE ELECTRICAL DRAWINGS COVER FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF COMPLETE ELECTRICAL SYSTEMS AS SPECIFIED HEREIN AND AS SHOWN.

1.02 CODES AND REGULATIONS:

- A. ALL WORK SHALL COMPLY WITH LOCAL LAWS, ORDINANCES AND REGULATIONS APPLICABLE TO THE ELECTRICAL INSTALLATION AND WITH THE REQUIREMENTS OF THE 2014 NATIONAL ELECTRICAL CODE AND APPLICABLE AMENDMENTS.
- B. OBTAIN ALL PERMITS AND LICENSES. AND PAY ALL FEES AS REQUIRED FOR EXECUTION OF THE CONTRACT. ARRANGE FOR NECESSARY INSPECTIONS AND PRESENT CERTIFICATES OF APPROVAL TO THE OWNER.

1.03 DRAWINGS:

- A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT. COORDINATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL SYSTEMS AND THE OWNER'S REPRESENTATIVE IN ORDER TO DETERMINE EXACT LOCATIONS.

1.04- STANDARDS FOR MATERIALS AND WORKMANSHIP:

- A. ALL MATERIAL SHALL BE NEW (UNLESS SPECIFICALLY INDICATED TO BE REUSED) AND SHALL BEAR THE INSPECTION LABEL OF UNDERWRITER'S LABORATORIES, INC. (UL).
- B. THE PUBLISHED STANDARDS AND REQUIREMENTS OF THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATIONS, THE AMERICAN NATIONAL STANDARDS INSTITUTE, THE INSTITUTES OF ELECTRICAL AND ELECTRONIC ENGINEERS AND THE AMERICAN SOCIETY OF TESTING MATERIALS SHALL APPLY WHERE APPLICABLE.
- C. SPECIFIED CATALOG NUMBERS AND TRADE NAMES ARE INTENDED TO DESCRIBE THE MATERIAL, DEVICES OR APPARATUS DESIRED. SIMILAR MATERIALS OF OTHER MANUFACTURERS. IF OF EQUAL QUALITY, CAPACITY OR CHARACTER, MAY BE USED UPON OWNER'S APPROVAL.
- D. THE INSTALLATION SHALL COMPLY WITH THE BASE BUILDING STANDARDS.

1.05 BUILD-OUT:

- A. ELECTRICAL WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER WHICH WOULD ADVERSELY AFFECT THE NORMAL OPERATION OF ANY PORTION OF THE OWNER'S PROPERTY SHALL BE DONE AT A TIME OTHER THAN NORMAL WORKING HOURS. SCHEDULE ALL OUTAGES WITH THE OWNER'S REPRESENTATIVE PRIOR TO SHUTDOWN.
- B. PRIOR TO SUBMITTING BIDS ON THE PROJECT, VISIT THE SITE OF THE WORK TO BECOME AWARE OF THE EXISTING CONDITIONS WHICH MAY AFFECT THE COST OF THE WORK. REVIEW THE SCOPE OF DEMOLITION AND NEW CONSTRUCTION. NO ADDITIONAL COSTS SHALL BE BROUGHT UPON THE OWNER FOR LACK OF THIS REVIEW.
- C. WHERE WORK UNDER THIS PROJECT REQUIRES EXTENSION, RELOCATION, RECONNECTION OR MODIFICATIONS TO THE EXISTING EQUIPMENT OR WIRING SYSTEMS, THE EXISTING SYSTEMS OR EQUIPMENT SHALL BE RESTORED TO THEIR ORIGINAL AND FULLY OPERABLE CONDITION. EXTEND NEW HOMERUNS OR CIRCUIT EXTENSIONS WHERE REQUIRED. DISCONNECT AND REMOVE ALL EQUIPMENT INDICATED TO BE DEMOLISHED, INCLUDING OUTLETS, DEVICES. RACEWAY, SUPPORTS AND CONDUCTORS BACK TO THE BRANCH CIRCUIT BREAKER.
- D. CARE SHALL BE EXERCISED IN THE REMOVAL AND STORAGE OF ELECTRICAL EQUIPMENT TO BE RELOCATED OR REMOVED AND REUSED. PRIOR TO REINSTALLATION, EQUIPMENT SHALL BE CLEANED. RELAMPED. AND MARRED OR CHIPPED FINISHES AND ACCESSORIES SHALL BE RESTORED. PROVIDE NEW REPLACEMENT EQUIPMENT FOR ANY ITEM DEEMED UNSALVAGEABLE BY THE OWNER DUE TO MISHANDLING OR ABUSE DURING STORAGE PERIOD, AT NO ADDITIONAL COSTS TO THE OWNER.
- E. PROVIDE ALL CORING. CUTTING AND PATCHING TO EXISTING WALLS, FLOORS. ETC. REQUIRED FOR ACCESS, REMOVAL OF EXISTING WORK OR INSTALLATION OF NEW WORK.

PART 2 PRODUCTS

2.01 GENERAL:

- A. THE COMPONENTS OF THE ELECTRICAL SYSTEM SHALL BE WARRANTED FOR A PERIOD OF FIVE YEARS FROM THE DATE OF ACCEPTANCE THEREOF EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP.
- B. MATERIALS OF THE SAME TYPE SHALL BE THE PRODUCT OF ONE MANUFACTURER.

2.02 CONDUIT:

- A. CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) OR PVC.
- B. RGS SHALL BE USED ABOVE GRADE, PVC BELOW GRADE.
- C. PVC CONDUIT SHALL BE SCHEDULE 40.
- D. RGS CONDUIT SHALL BE PAINTED ABOVE GRADE WHERE EXPOSED TO PEDESTRIAN VIEW. PAINT TO MATCH THE MEDIUM THE CONDUIT IS MOUNTED ON.

2.03 CONDUCTORS:

- A. CONDUCTORS SHALL BE COPPER OF 98% CONDUCTIVITY. NO.12 MINIMUM. 600 VOLTS. UNLESS DESIGNATED OTHERWISE.
- B. CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID WITH TYPE XHHW-2 INSULATION; NO.8 AND LARGER SHALL BE STRANDED WITH TYPE XHHW-2 INSULATION.
- C. CONDUCTORS SHALL BE COLOR CODED, PER PARAGRAPH 3.04 OF THIS SPECIFICATION.

2.04 SWITCHED LOAD CENTER:

- A. SWITCHED LOAD CENTERS SHALL BE OF THE AUTOMATIC CIRCUIT BREAKER TYPE, SINGLE PHASE, THREE WIRE. 120/240V SOLID NEUTRAL AS SCHEDULED. THE NEUTRAL BUS SHALL BE 100% RATED AND UTILIZE SET-SCREWS TO BOND THE NEUTRAL WIRE TO THE NEUTRAL BUS THROUGH HOLES DRILLED IN THE NEUTRAL BAR. BUSSING SHALL BE TIN PLATED COPPER.
- B. ALL CIRCUIT BREAKERS SHALL BE UL LABELED AND SHALL BE THERMAL AND MAGNETIC MOLDED CASE TYPE, BOLT-ON TYPE, QUICK-MAKE AND QUICK-BREAK, BOTH ON MANUAL AND ON MAGNETIC OPERATION. BREAKERS SHALL BE OF THE OVER-THE-CENTER TOGGLE OPERATING TYPE, WITH THE HANDLE GOING TO A POSITION BETWEEN "ON" AND "OFF" TO INDICATE AUTOMATIC TRIPPING. ALL MULTIPOLE BREAKERS SHALL BE INTERNAL COMMON TRIP. BREAKERS SHALL NOT BE RATED AT LESS THAN 30,000 RMS SYMMETRICAL AMPERES INTERRUPTING CAPACITY.
- C. SWITCHED LOAD CENTERS SHALL BE PEDESTAL MOUNTED AS SHOWN ON PLANS, WITH BAKED-ON ENAMEL TRIM, ADJUSTABLE TRIM CLAMPS AND DOOR WITH LOCK AND CATCH. PROVIDE TYPEWRITTEN UPDATED DIRECTORIES UNDER PLASTIC, WITH ALL SPARES MARKED IN PENCIL FOR ALL PANELS AFFECTED BY THIS BUILD-OUT.

PART 3 EXECUTION

3.01 COORDINATION:

- A. BEFORE ANY PIPING, CONDUIT, OUTLETS, EQUIPMENT OR LIGHTING FIXTURES ARE LOCATED IN ANY AREA, COORDINATE THE SPACE REQUIREMENTS OF ALL TRADES. SUCH SHALL BE ARRANGED SO THAT SPACE CONDITIONS WILL ALLOW ALL TRADES TO INSTALL THEIR WORK. AND WILL ALSO PERMIT ACCESS FOR FUTURE MAINTENANCE AND REPAIR.
- B. COORDINATION OF SPACE REQUIREMENTS WITH ALL TRADES SHALL BE PERFORMED SO THAT:
 - 1. NO PIPING OR DUCTWORK, OTHER THAN ELECTRICAL, SHALL BE RUN WITHIN 42" OF SWITCHED LOAD CENTERS.
 - 2. NO PIPES OR DUCTS SHALL BE RUN WITHIN DEDICATED SPACES, PER NEC 384-4.

3.02 PROTECTION OF MATERIALS:

- A. ALL CONDUIT AND OTHER OPENINGS SHALL BE KEPT PROTECTED TO PREVENT ENTRY OF FOREIGN MATTER. FIXTURES, EQUIPMENT AND APPARATUS SHALL BE KEPT COVERED FOR PROTECTION AGAINST DIRT, WATER, CHEMICAL OR MECHANICAL DAMAGE BEFORE AND DURING CONSTRUCTION.
- B. THE ORIGINAL FINISH, INCLUDING SHOP COAT OF PAINT OF FIXTURE, APPARATUS OR EQUIPMENT THAT HAS BEEN DAMAGED, SHALL BE RESTORED.

3.03 CONDUIT:

- A. ALL CONDUIT SHALL BE INSTALLED CONCEALED EXCEPT IN UNFINISHED SPACES OR WHERE SHOWN OTHERWISE.
- B. MINIMUM CONDUIT SIZE SHALL BE 1 INCH.

3.04 CONDUCTORS:

- A. CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS SHALL HAVE COLOR CODED JACKETS. THE WIRING SHALL BE COLOR CODED WITH THE SAME COLOR USED WITH ITS RESPECTIVE PHASE THROUGH THE ENTIRE JOB AS FOLLOWS:
 120/240V 1Ø
 PHASE A - BLACK
 PHASE B - RED
 NEUTRAL - WHITE
 GROUND - GREEN
- B. SWITCHED LOAD CENTER FEEDER FROM UTILITY SERVICE SHALL BE NO. 1/0 AND BRANCH CIRCUIT CONDUCTORS FEEDING LIGHT POLES SHALL BE NO. 8, OR NO. 6 AS SHOWN ON PLANS.
- C. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT.

3.05 GROUNDING:

- A. RACEWAYS, BOXES, OUTLETS AND CABINETS SHALL BE BOUND TOGETHER TO FORM A CONTINUOUS METALLIC GROUNDING CIRCUIT IN ACCORDANCE WITH NEC ART. 250.
- B. SIZE OF GROUNDING CONDUCTOR TO BE PER NEC UNLESS NOTED AS LARGER ON DRAWINGS.
- C. A SEPARATE GROUND CONDUCTOR SHALL BE PROVIDED IN EACH CONDUIT TO A PANELBOARD, DISTRIBUTION PANEL, SWITCHBOARD, ETC. AND EXTENDED TO CONNECT TO EACH DEVICE.
- D. DOCUMENTATION AND GUARANTEES:
 - A. CONTRACTOR SHALL CONFIRM THAT EQUIPMENT BEING PURCHASED AND INSTALLED IS NEW AND OPERATIONAL.
 - B. PROVIDE AS-BUILT DRAWINGS OF COMPLETE INSTALLATION FOR OWNER'S FACILITIES DEPARTMENT.
 - C. PROVIDE COMPLETE TYPEWRITTEN SWITCHED LOAD CENTER DIRECTORIES INDICATING LOAD TYPE AND LOCATION WITH FIELD CHANGES RECORDED.
 - D. PROVIDE SUBMITTALS ON SWITCHED LOAD CENTERS, DEVICES, TRANSFORMERS, AND LIGHT POLE FIXTURES FOR ARCHITECT/ENGINEER APPROVAL PRIOR TO PURCHASE. SUBMIT ELECTRICAL SWITCHED LOAD CENTER LOCATIONS WITH CLEARANCES REQUIRED PER NEC ARTICLE 110.
 - E. UPON COMPLETION OF ELECTRICAL WORK, TEST FOR GROUNDS AND SHORTS, TO INSURE PROPER OPERATION OF THE ELECTRICAL SYSTEM AND CONTROLS. REPAIR OR REPLACE FAULTY EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
 - F. THE WORKMANSHIP AND MATERIALS FURNISHED SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF FIVE YEARS AFTER FINAL ACCEPTANCE. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF MANUFACTURER WARRANTY FOR PURCHASED AND INSTALLED EQUIPMENT WHICH EXCEEDS THIS FIVE YEAR PERIOD.

SUPPLEMENTAL NOTES:

1. ALL WIRING SHALL BE COPPER.
2. ALL WIRING SHALL MEET THE CITY OF ATLANTA WIRING PROCEDURES.
3. ALTERNATE LUMINAIRES AND POLES SHALL MEET THE CURRENT CITY OF ATLANTA ACCEPTABLE MANUFACTURER'S LIST.
4. CONDUIT AND WIRING SHALL BE DIRECT BORE UNDER EXISTING ROADWAYS THAT WILL NOT BE DISTURBED BY NEW CONSTRUCTION WHERE APPLICABLE.
5. ALL WORK SHALL BE DONE WITHIN THE PROJECT BOUNDARIES. CONDUIT INSTALLATION SHALL REMAIN INSIDE THE RIGHT OF WAY AND OFF OF PRIVATE PROPERTY.
6. VERIFY EXISTING AVAILABLE FAULT CURRENT FOR PANELBOARD SERVICES WITH GEORGIA POWER PRIOR TO ORDERING EQUIPMENT.
7. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) UNLESS OTHERWISE NOTED. CONDUIT UNDER ROADWAYS AND DRIVEWAYS SHALL BE RGS. INSTALL CONDUITS UNDER NEW ROADWAYS AND DRIVES PRIOR TO NEW PAVING. ALL OTHER UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.
8. PROVIDE A NYLON PULL CORD IN ALL EMPTY CONDUITS.
9. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING FOR ANY ELECTRICAL WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE FIXED BY CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT.
10. ALL NEW ELECTRICAL EQUIPMENT AND MATERIAL SHALL BE NEW AND UL LISTED, MEET THE REQUIREMENTS OF THE APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE, AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). ALL NEW ELECTRICAL EQUIPMENT AND MATERIAL SHALL MEET THE GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARD SPECIFICATIONS AND SHALL BE IN ACCORDANCE WITH GDOT'S QUALIFIED PRODUCTS LIST.
11. THE CONTRACTOR SHALL FURNISH A FIVE YEAR WRITTEN WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON THE LUMINAIRES.
12. FOR ALL LIGHT POLES A MINIMUM OF 1' 6" MUST BE MAINTAINED AT ALL TIMES FROM THE FACE OF THE CURB (OR EDGE OF PAVEMENT) TO THE OUTSIDE EDGE OF THE LIGHT POLE.

SUMMARY ESTIMATE		
CATEGORY	DESCRIPTION	QUANTITY/UNITS
681-3600	TYPE C, SPC, 75W LED LUMINAIRE AND 12' POLE COMPLETE	74 EA
682-9021	ELECTRICAL JUNCTION BOX, CONC GROUND MOUNTED	74 EA
682-9010	SVC PEDESTAL RISER - 100A/2P, 120/240V/1Ø SWITCHED LOAD CENTER WITH METER, LOAD CENTER AND CONCRETE BASE	1 EA
682-1413	CABLE, TP XHHW, AWG NO 1/0	600 LF
682-6225	CONDUIT, NONMETL, TP 2, 2 1/2 IN	200 LF
682-1406	CABLE, TP XHHW, AWG NO 6	22500 LF
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	7500 LF

LEGEND AND ABBREVIATIONS:

- # ○ LIGHT POLE: SEE DETAILS ON SHEET 25-010
- 3P-1 □ SWITCHED LOAD CENTER (PEDESTAL MOUNTED): SEE DETAILS 2, 3 & 6 ON SHEET 25-008
- LIGHT POLE BRANCH CIRCUIT: 2#8 & 1#8 GROUND OR 2#6 & 1#6 GROUND IN 2" CONDUITS AS NOTED ON LIGHTING PLANS AND DETAILS.
- 20/2 ◀ HOMERUN CIRCUIT (2#8 & 1#8 GROUND OR 2#6 & 1#6 GROUND IN 2" CONDUITS, AS SHOWN ON PLANS) TO SWITCHED LOAD CENTERS (20=AMPS, 2=POLES OF BRANCH CIRCUIT BREAKER).

1. SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING. THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
2. SEE 25-008 AND 25-010 FOR ELECTRICAL AND LIGHTING DETAILS.
3. SEE 25-009 FOR FIXTURE TABLE.



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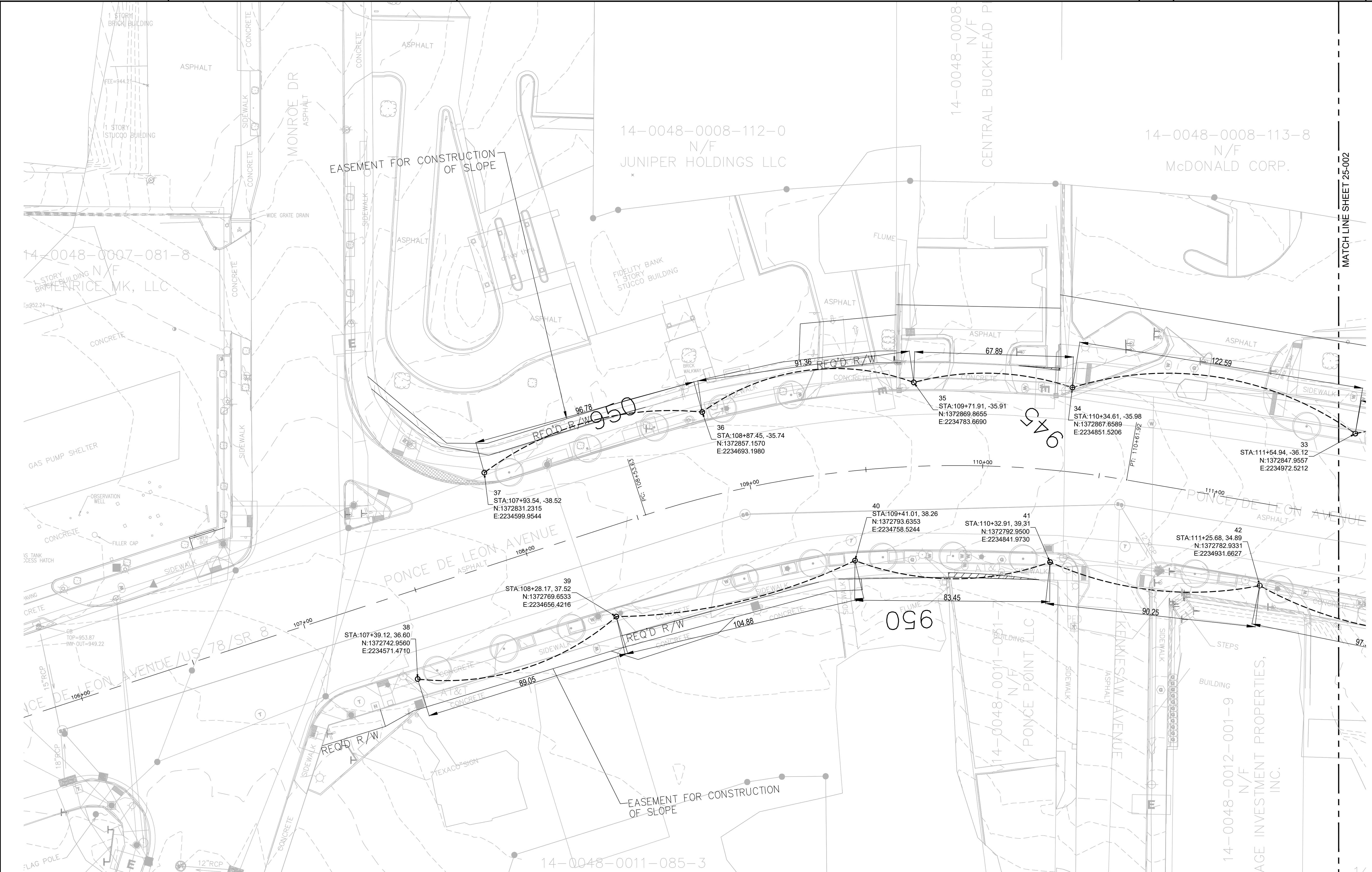
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ELECTRICAL LEGEND, NOTES, AND SPECS

PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

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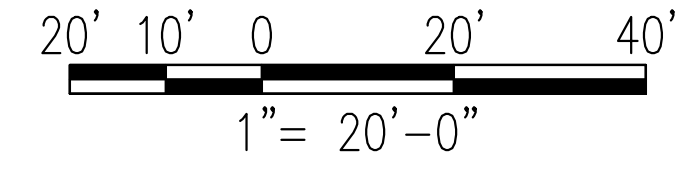


MATCH LINE SHEET 25-002

1. SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING. THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
2. SEE 25-008 AND 25-010 FOR ELECTRICAL AND LIGHTING DETAILS.
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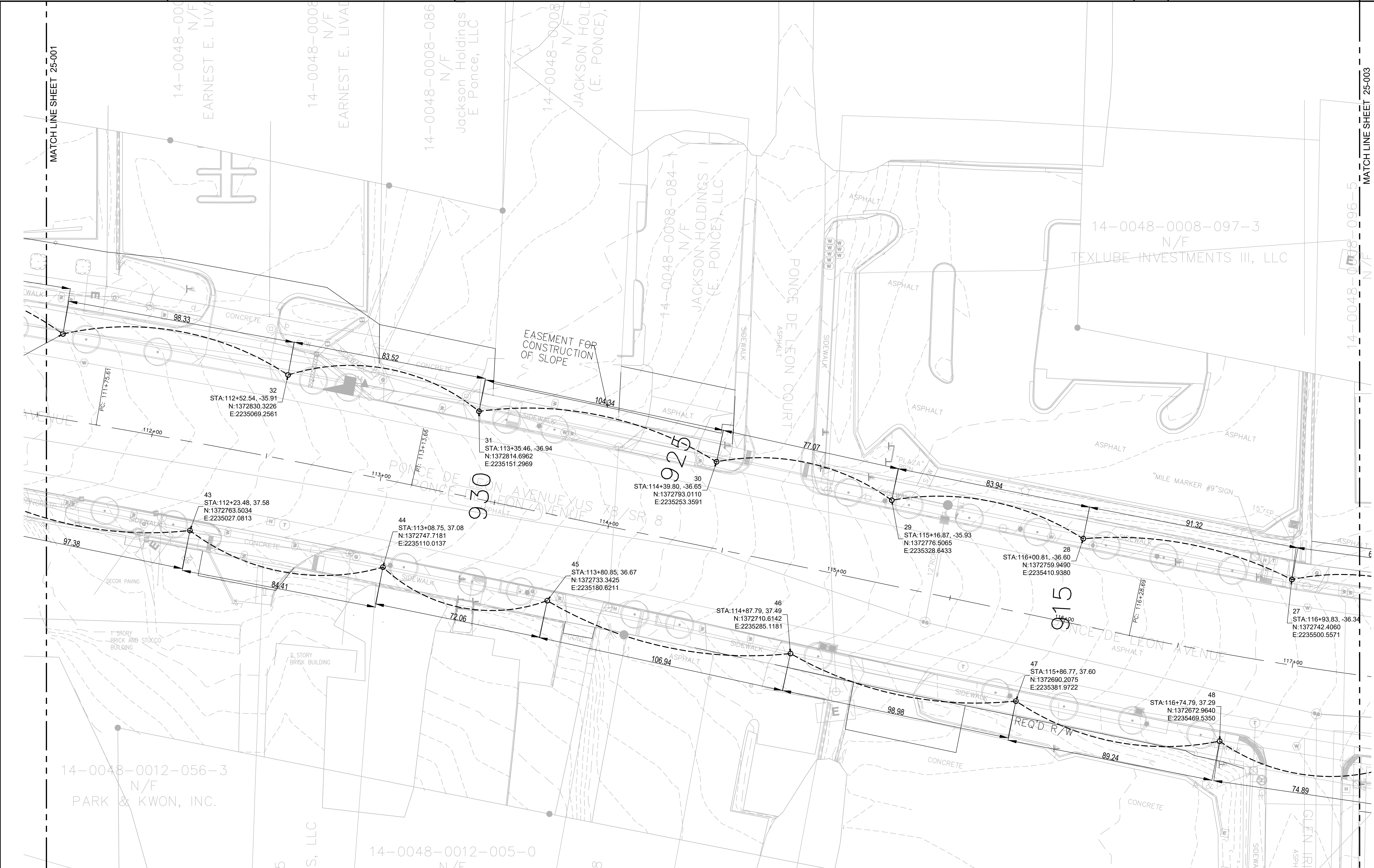
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LIGHTING LAYOUT

PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

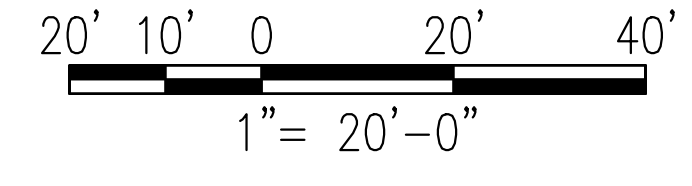
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25-001



1. SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING. THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
2. SEE 25-008 AND 25-010 FOR ELECTRICAL AND LIGHTING DETAILS.
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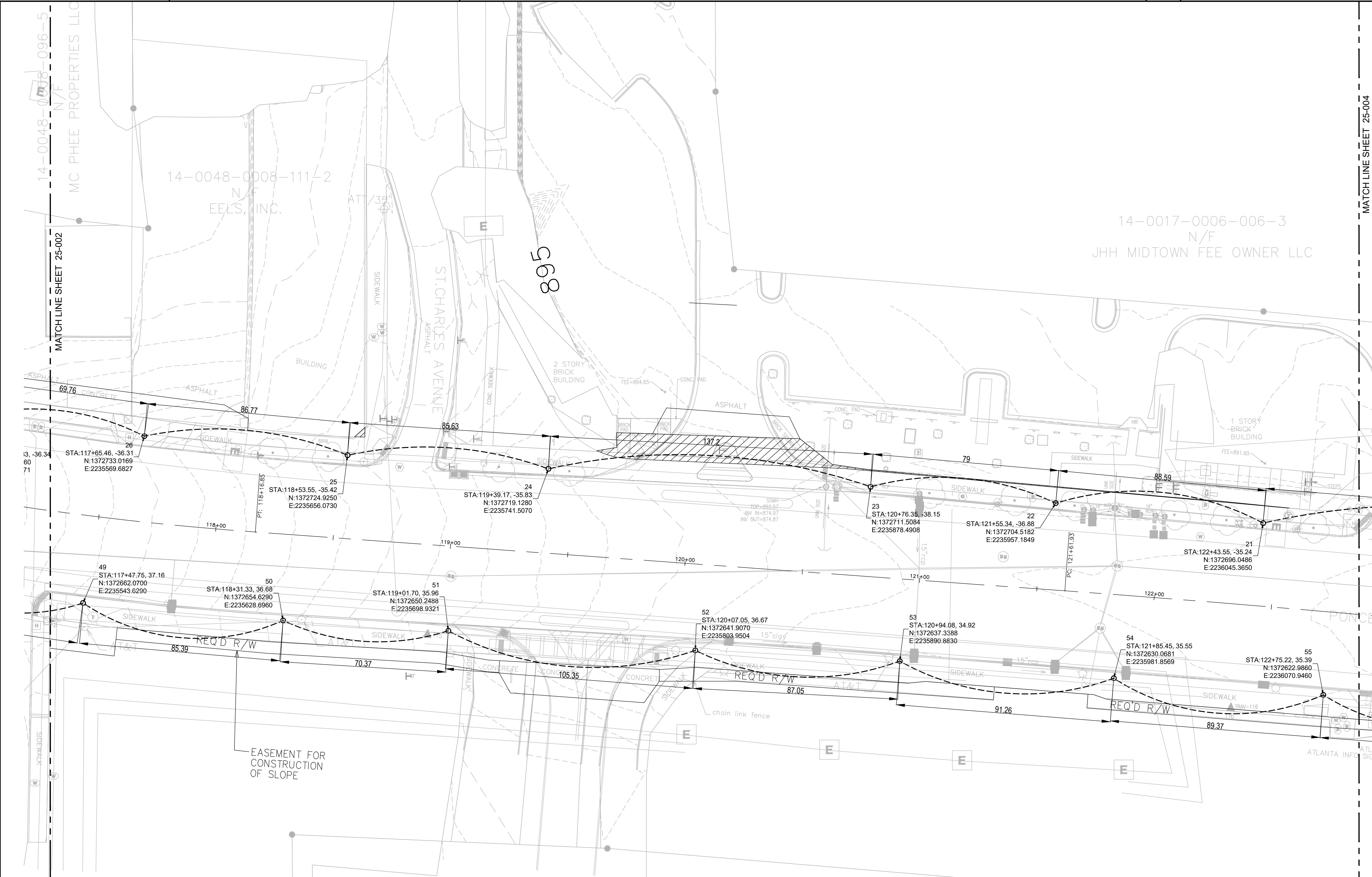
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LIGHTING LAYOUT

PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

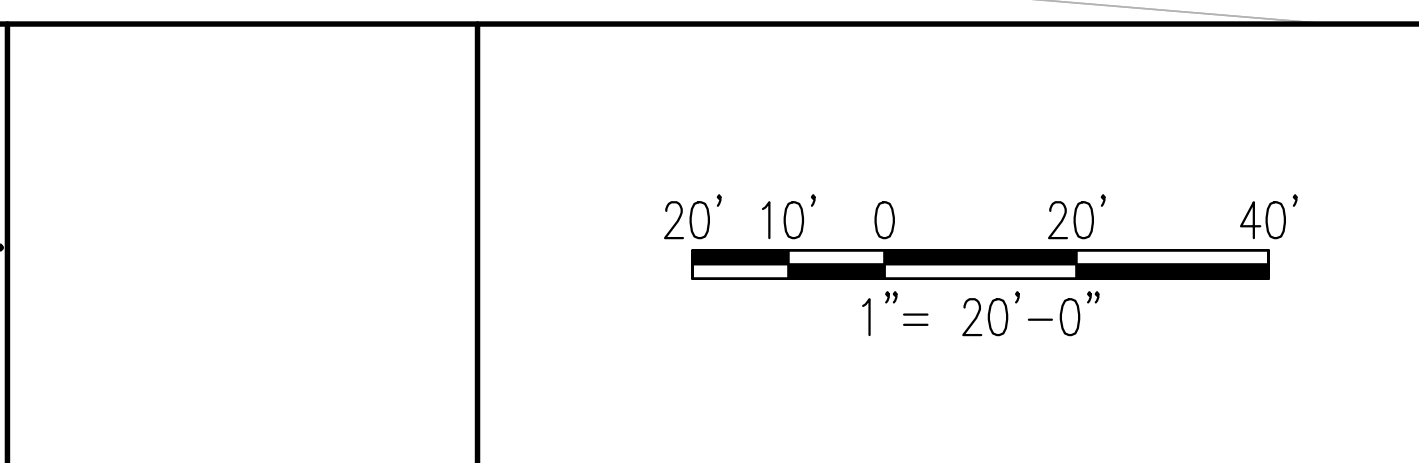
DRAWING No.
25-002



1. SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING. THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
2. SEE 25-008 AND 25-010 FOR ELECTRICAL AND LIGHTING DETAILS.
3. SEE 25-009 FOR FIXTURE TABLE.

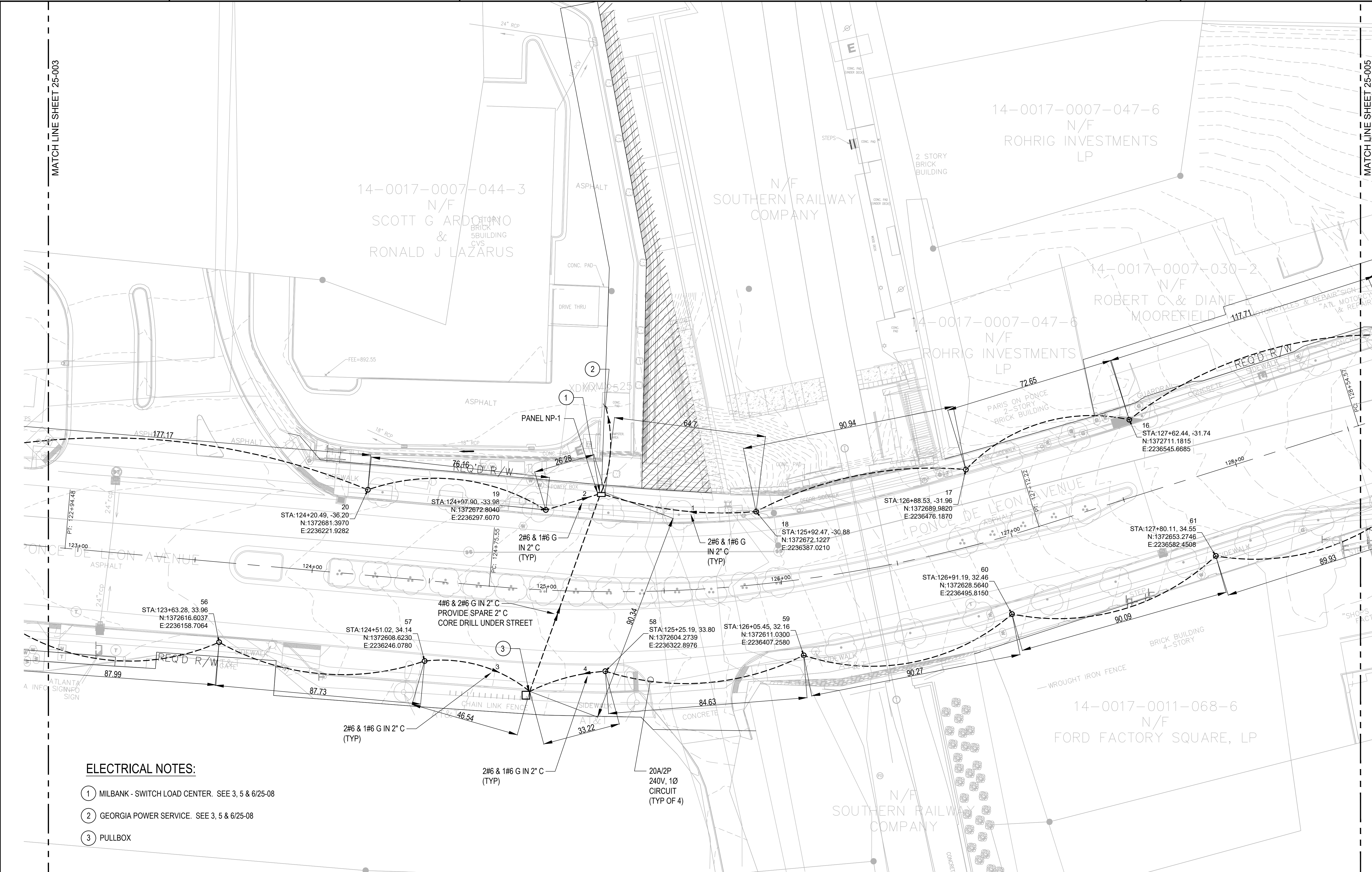
Robert and Company
 Engineers, Architects, Planners
 229 Peachtree Street, N.E. International Tower
 Suite 2000. Atlanta, Georgia 30303-1629
 404 577-4000 FAX: 404 577-7119
 www.robertandcompany.com

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3806



REVISION DATES	

ATLANTA BELTLINE
 OFFICE:
LIGHTING LAYOUT
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION
 DRAWING No.
25-003



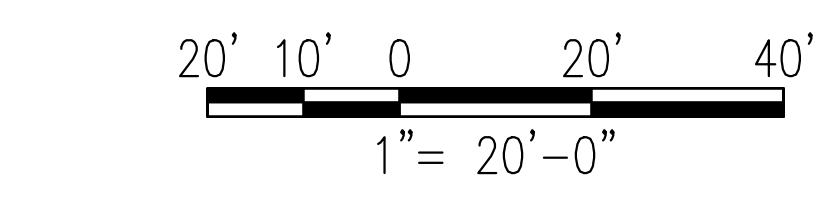
- ELECTRICAL NOTES:**
- ① MILBANK - SWITCH LOAD CENTER. SEE 3, 5 & 6/25-08
 - ② GEORGIA POWER SERVICE. SEE 3, 5 & 6/25-08
 - ③ PULLBOX



1. SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING. THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
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REVISION DATES

ATLANTA BELTLINE

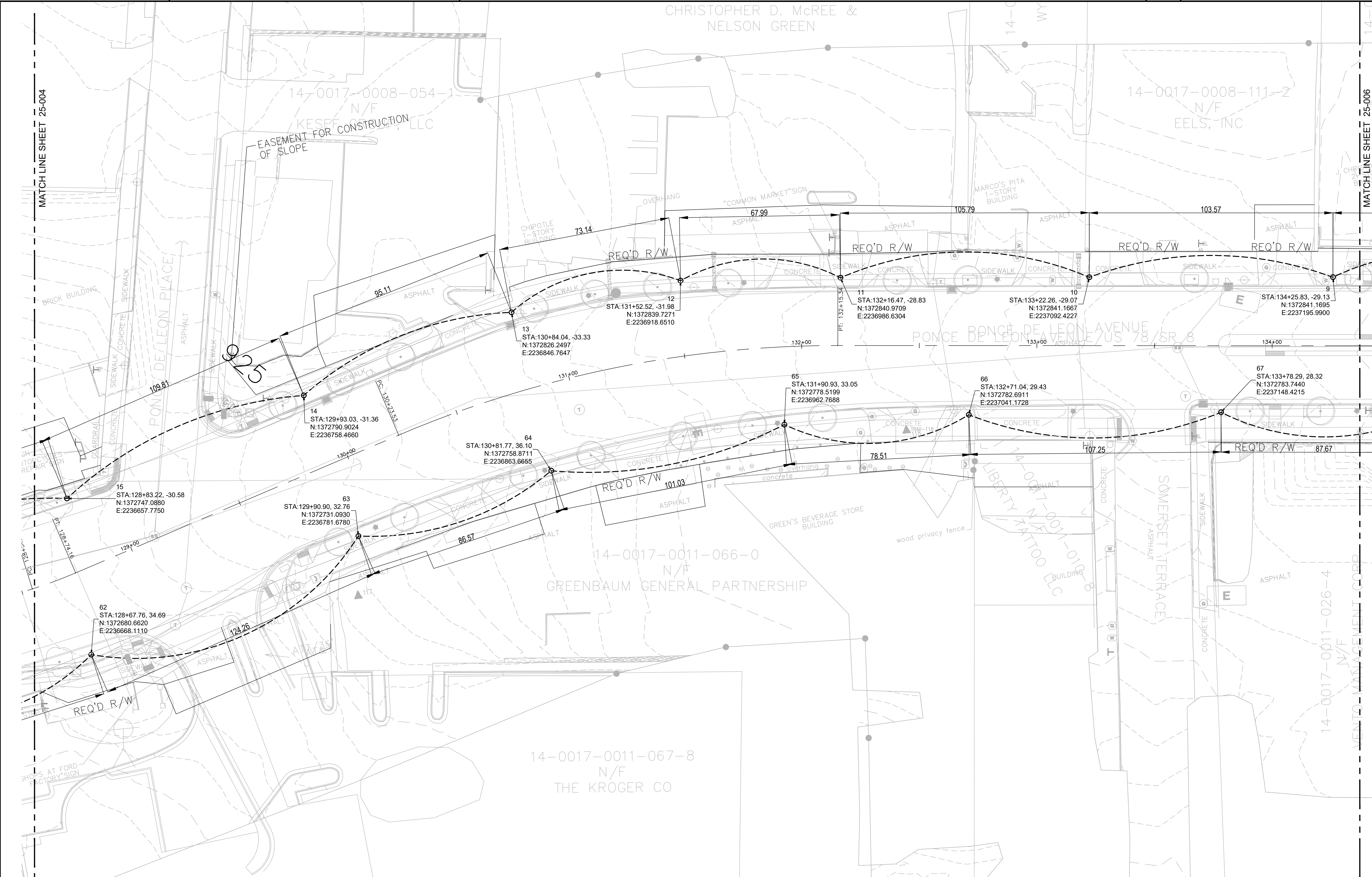
OFFICE:

LIGHTING LAYOUT

PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No.

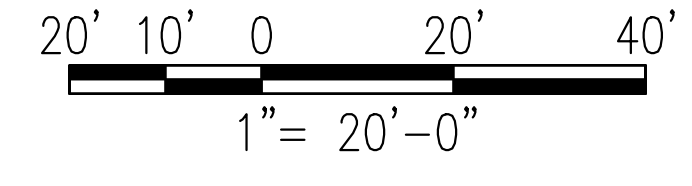
25-004



1. SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING. THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
2. SEE 25-008 AND 25-010 FOR ELECTRICAL AND LIGHTING DETAILS.
3. SEE 25-009 FOR FIXTURE TABLE.

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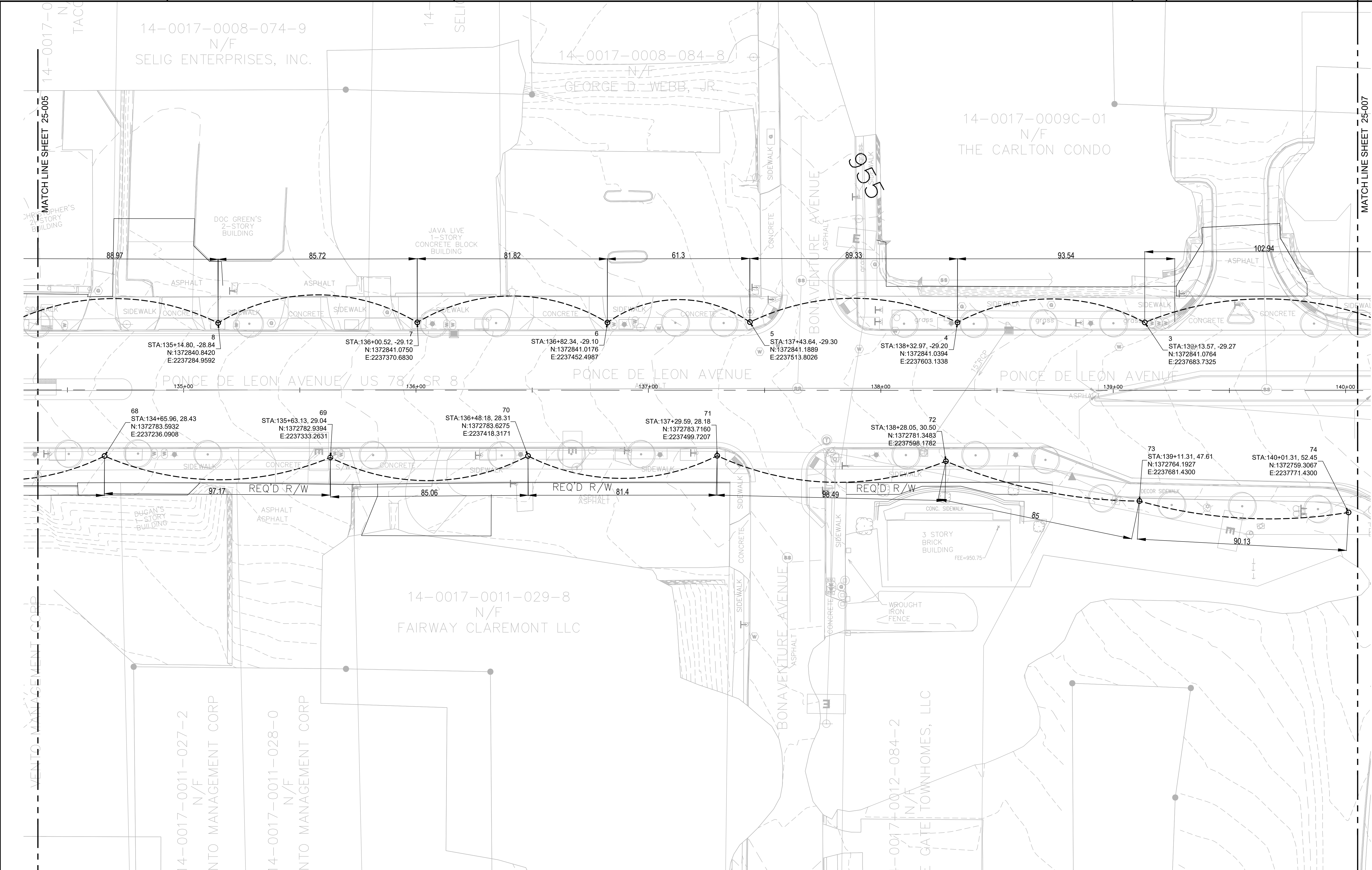
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LIGHTING LAYOUT

PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No.
25-005



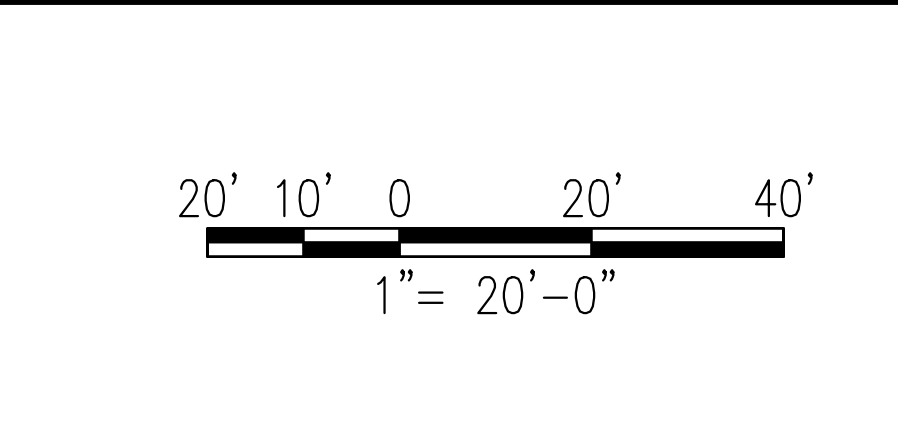
1. SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING. THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
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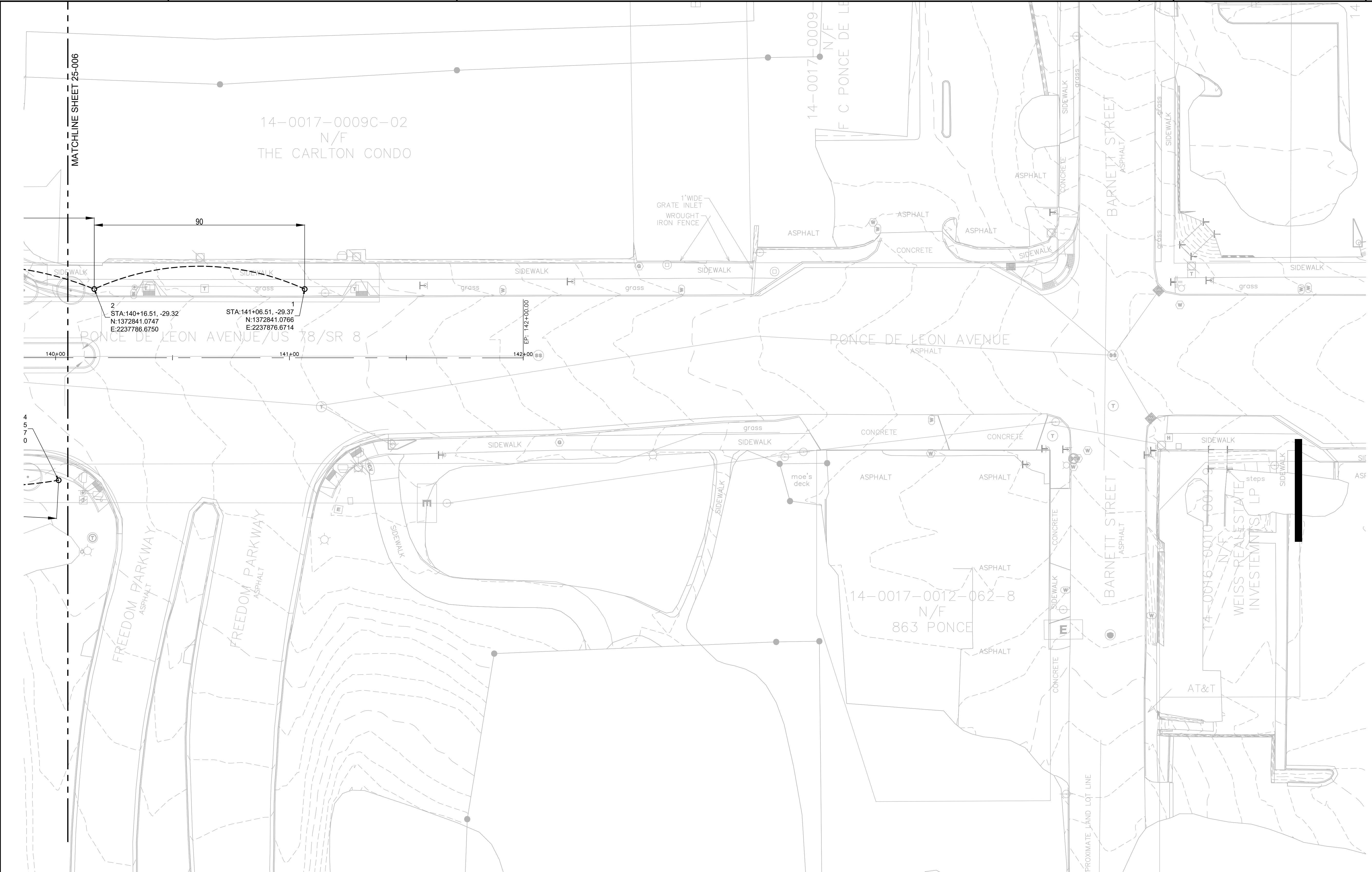
ATLANTA BELTLINE

OFFICE:

LIGHTING LAYOUT

PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

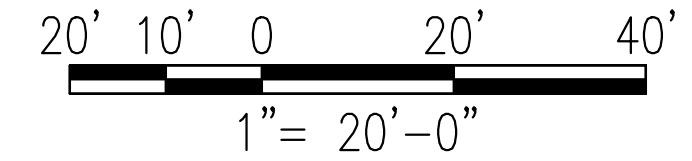
DRAWING No.
25-006



1. SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING. THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
2. SEE 25-008 AND 25-010 FOR ELECTRICAL AND LIGHTING DETAILS.
3. SEE 25-009 FOR FIXTURE TABLE.

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REVISION DATES	

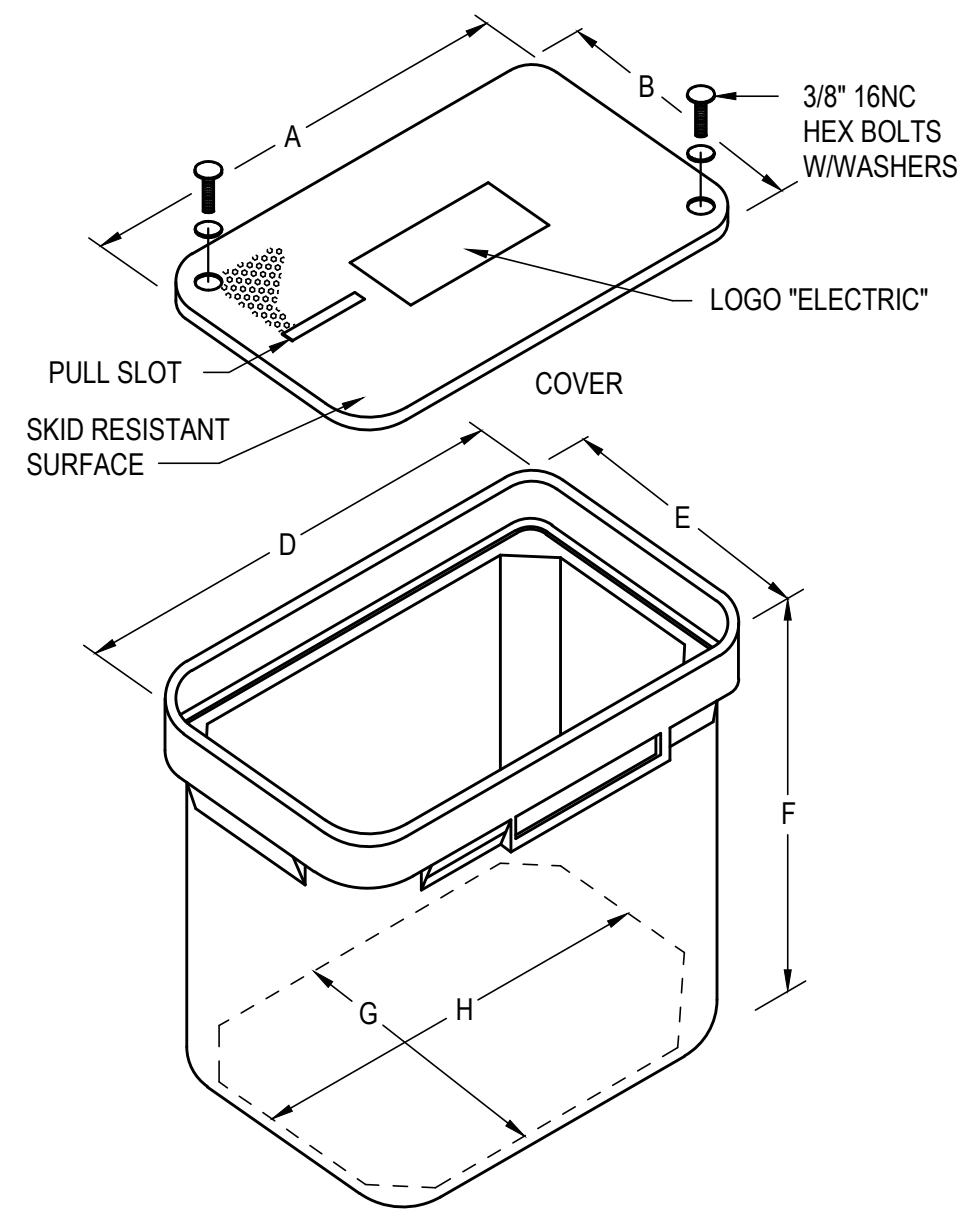
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OFFICE:

LIGHTING LAYOUT

PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No.
25-007

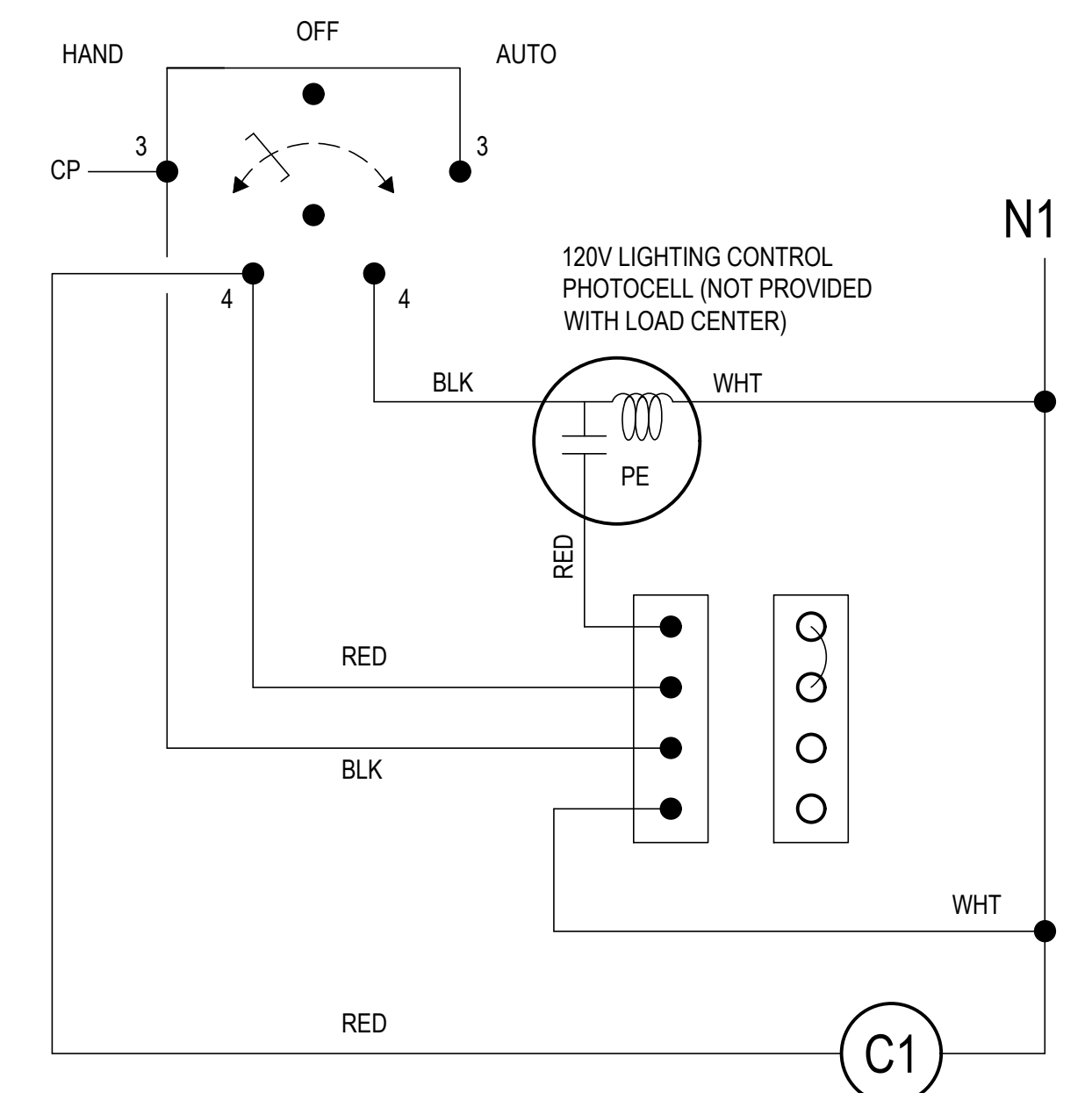


DESCRIPTION	PART NO. *	DIMENSIONS (IN.)				WT. LBS
		A	B	C		
LOCKING COVER		23 1/4	13 3/4	2		32
		30 1/2	17 1/2	2		47

DESCRIPTION	PART NO. *	DIMENSIONS (IN.)							WT. LBS
		D	E	F	G	H	J	K	
STANDARD BOX		27	15 1/2	18	11 1/4	20 1/2	1 1/4	16	74
		32 1/4	19 1/4	18	13 1/2	26 1/2	1 1/4	16	94

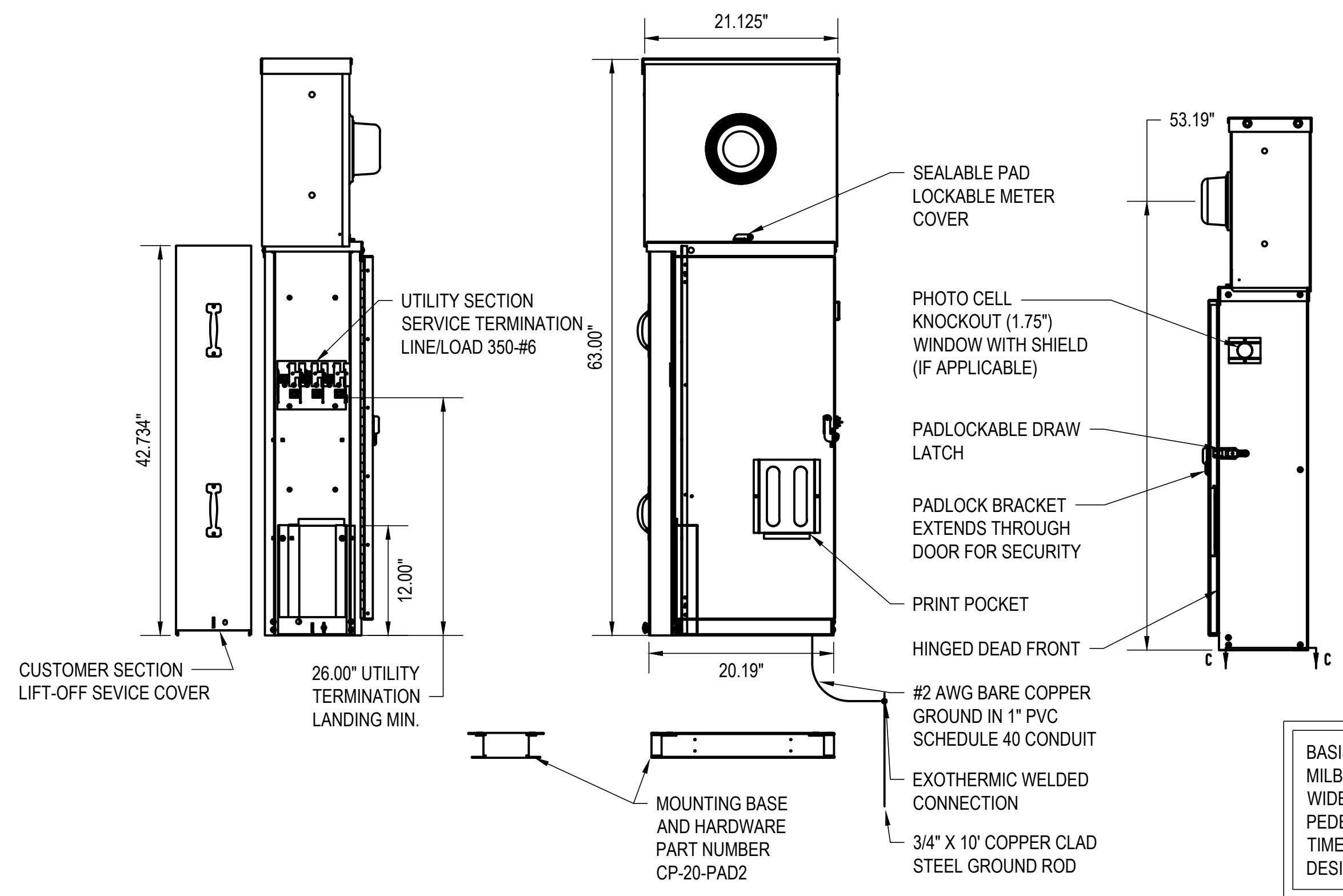
* - HEAVY DUTY ANSI TIER 8 WITH MOUSEHOLER GASKETED COVER.

1 SIDEWALK PULLBOX DETAIL (TYPICAL)
Scale: NTS



C1: CONTACTOR, 100-AMP, 3-POLE, ELECTRICALLY HELD (120V COIL)

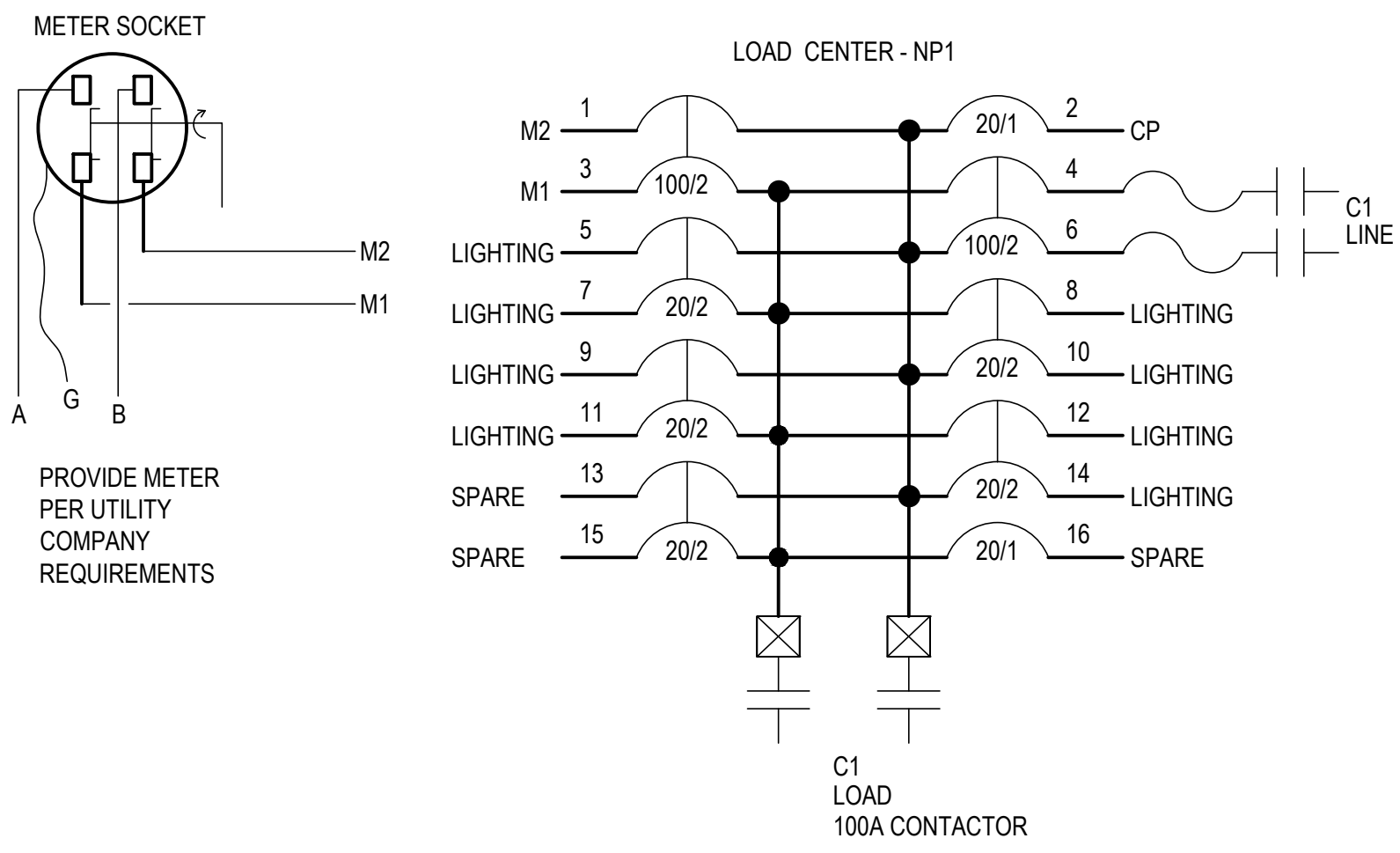
5 SWITCHED LOAD CENTER CONTROL DETAIL (TYPICAL)
Scale: NTS



BASIS OF DESIGN:
MILBANK L-SIZE, 63T X 20W X 8.25D 20\"/>

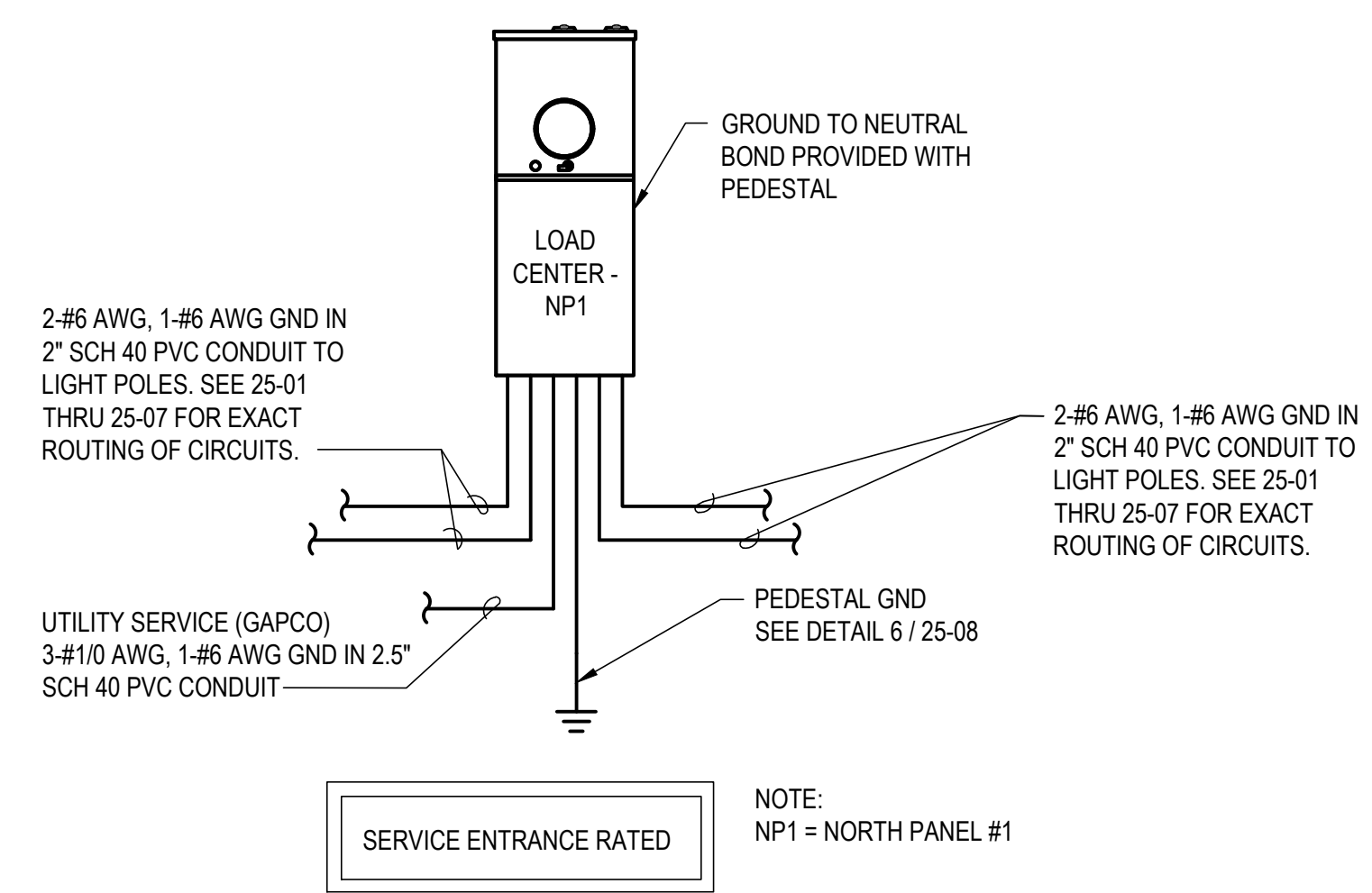
6 20\"/>

FINAL EQUIPMENT AIC RATING DEPENDANT UPON FINAL UTILITY COMPANY FAULT CURRENT COORDINATION
 NOTE: NP1 = NORTH PANEL #1
 SEE SITE LIGHTING CIRCUITING PLANS FOR EXACT NUMBER OF 20A/2P LIGHTING CIRCUITS (TYPICAL)

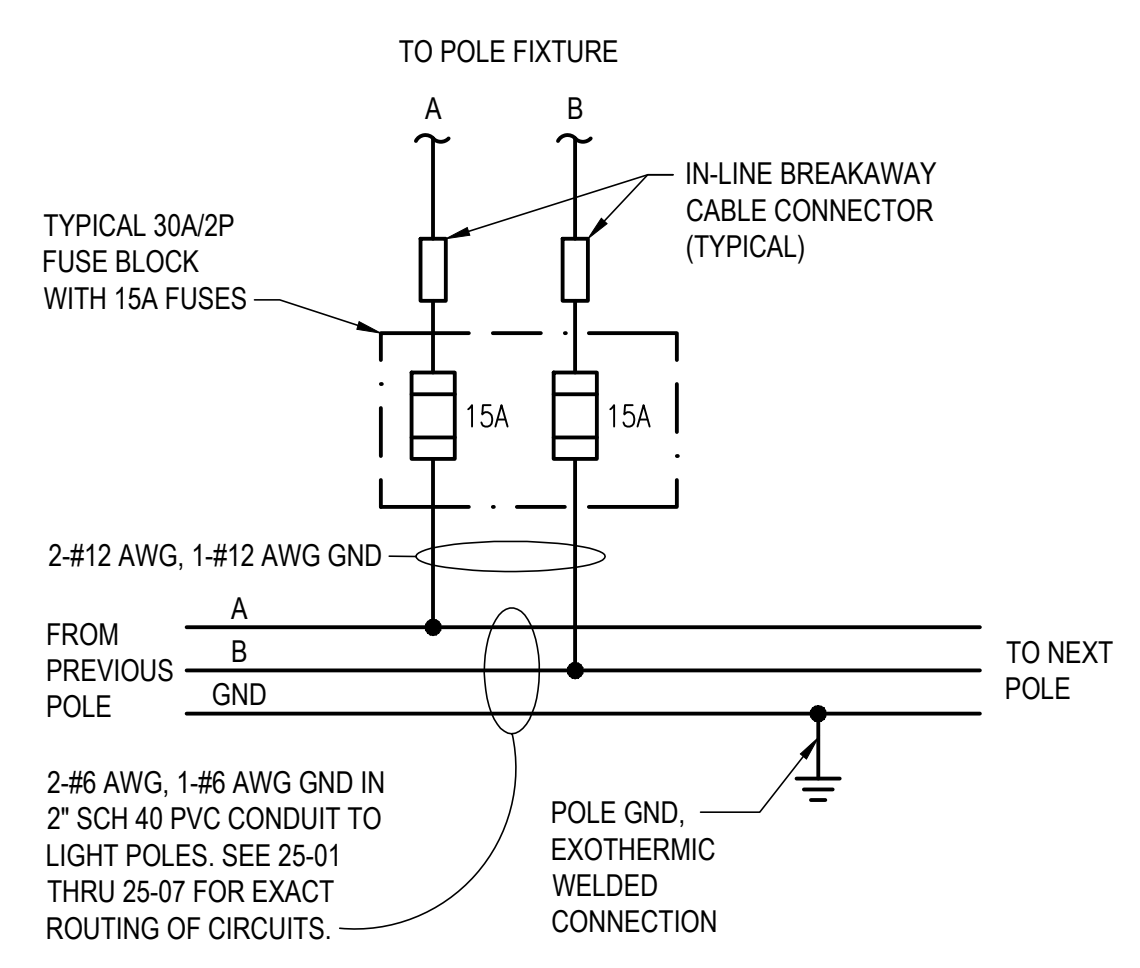


2 SWITCHED LOAD CENTER METER AND CIRCUIT DETAIL (TYPICAL)
Scale: NTS

SEE SITE LIGHTING CIRCUITING PLANS FOR EXACT NUMBER OF 20A/2P LIGHTING CIRCUITS (TYPICAL)



3 SWITCHED LOAD CENTER WIRING DETAIL (TYPICAL)
Scale: NTS



4 POLE WIRING DETAIL (TYPICAL)
Scale: NTS

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- SEE 25-009 FOR FIXTURE TABLE.

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REVISION DATES

ATLANTA BELTLINE
 OFFICE:
ELECTRICAL DETAILS
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION
 DRAWING No.
25-008

FIXTURE TABLE - TYPE "C"					
POLE NO.	STATION NO.	OFFSET	CIRCUIT	VOLTAGE	TILT
1	141+06.51	-29.37	1	240	0
2	140+16.51	-29.32	1	240	0
3	139+13.57	-29.27	1	240	0
4	138+32.97	-29.20	1	240	0
5	137+43.64	-29.30	1	240	0
6	136+82.34	-29.10	1	240	0
7	136+00.52	-29.12	1	240	0
8	135+14.80	-28.84	1	240	0
9	134+25.83	-29.13	1	240	0
10	133+20.32	-29.07	1	240	0
11	132+33.24	-28.94	1	240	0
12	131+52.45	-31.38	1	240	0
13	130+84.04	-33.33	1	240	0
14	129+92.94	-32.02	1	240	0
15	128+83.22	-30.58	1	240	0
16	127+70.04	-31.75	1	240	0
17	126+88.53	-31.96	1	240	0
18	125+92.60	-32.03	1	240	0
19	124+97.90	-33.98	2	240	0
20	124+20.49	-36.20	2	240	0
21	122+49.21	-36.13	2	240	0
22	121+55.34	-36.88	2	240	0
23	120+76.35	-38.15	2	240	0
24	119+39.17	-35.83	2	240	0
25	118+53.55	-35.42	2	240	0
26	117+69.08	-36.25	2	240	0
27	116+93.83	-36.34	2	240	0
28	116+00.81	-36.60	2	240	0
29	115+16.87	-35.93	2	240	0
30	114+39.80	-36.65	2	240	0
31	113+35.46	-36.94	2	240	0
32	112+52.60	-36.44	2	240	0
33	111+54.97	-36.55	2	240	0
34	110+35.28	-37.47	2	240	0
35	109+64.13	-36.32	2	240	0
36	108+87.45	-35.74	2	240	0
37	107+93.54	-38.52	2	240	0

FIXTURE TABLE - TYPE "C"					
POLE NO.	STATION NO.	OFFSET	CIRCUIT	VOLTAGE	TILT
38	107+39.12	36.60	3	240	0
39	108+28.17	37.52	3	240	0
40	109+41.01	38.26	3	240	0
41	110+32.91	39.31	3	240	0
42	111+25.68	35.57	3	240	0
43	112+23.42	37.18	3	240	0
44	113+08.64	37.42	3	240	0
45	113+80.95	35.62	3	240	0
46	114+87.86	36.60	3	240	0
47	115+86.72	36.78	3	240	0
48	116+74.79	37.29	3	240	0
49	117+47.75	37.16	3	240	0
50	118+31.33	36.68	3	240	0
51	119+01.73	36.35	3	240	0
52	120+06.98	35.67	3	240	0
53	120+96.98	36.32	3	240	0
54	121+87.09	36.93	3	240	0
55	122+75.31	36.39	3	240	0
56	123+63.39	35.16	3	240	0
57	124+51.02	34.14	3	240	0
58	125+33.56	34.61	4	240	0
59	126+05.40	32.56	4	240	0
60	126+91.19	32.46	4	240	0
61	127+80.05	33.13	4	240	0
62	128+67.76	34.69	4	240	0
63	129+90.90	32.76	4	240	0
64	130+81.77	36.10	4	240	0
65	131+90.94	33.71	4	240	0
66	132+71.04	29.43	4	240	0
67	133+72.19	28.32	4	240	0
68	134+65.96	28.43	4	240	0
69	135+62.13	28.25	4	240	0
70	136+48.18	28.31	4	240	0
71	137+31.30	28.18	4	240	0
72	138+28.05	28.14	4	240	0
73	139+11.31	47.61	4	240	0
74	140+01.31	52.45	4	240	0

1 FIXTURE TABLE
Scale: NTS

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REVISION DATES		

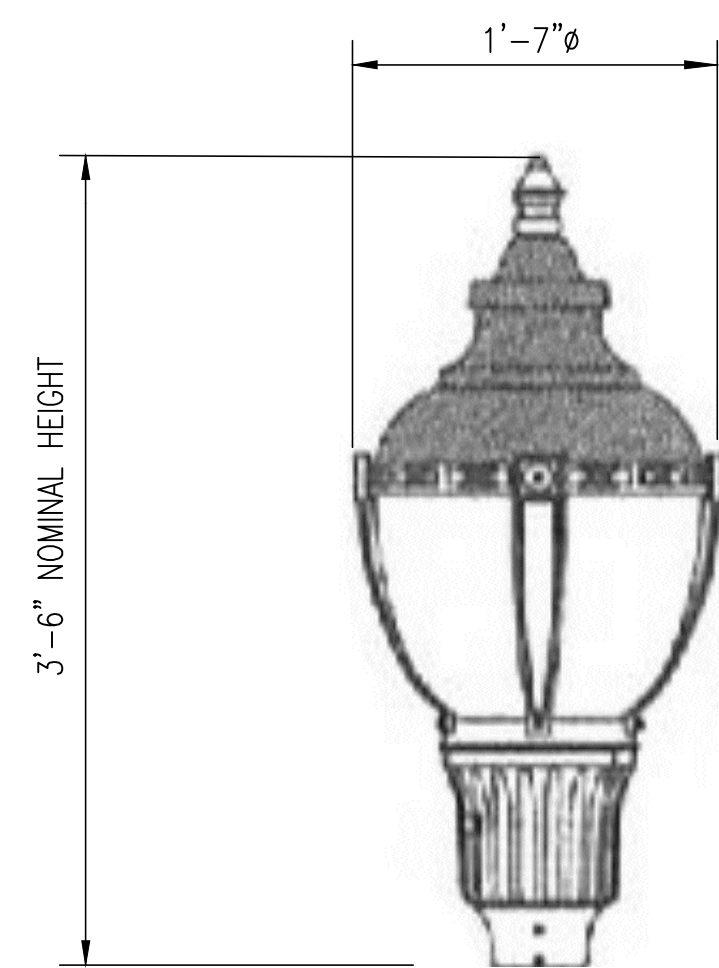
ATLANTA BELTLINE

OFFICE:

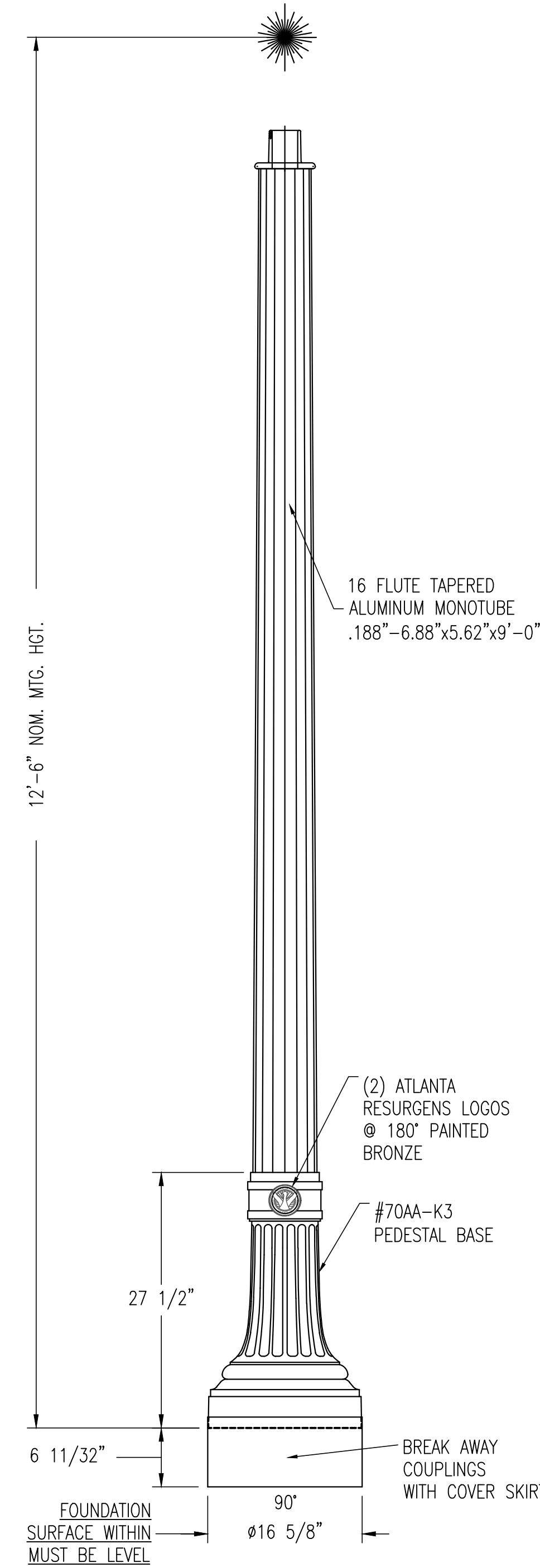
LIGHTING SCHEDULES

PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No. 25-009

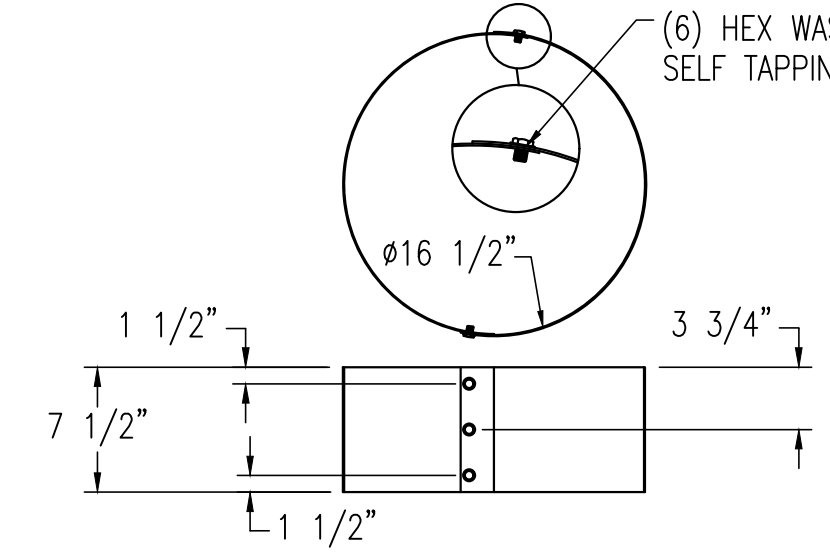


1 FIXTURE TYPE 'C' DETAIL
Scale: NTS

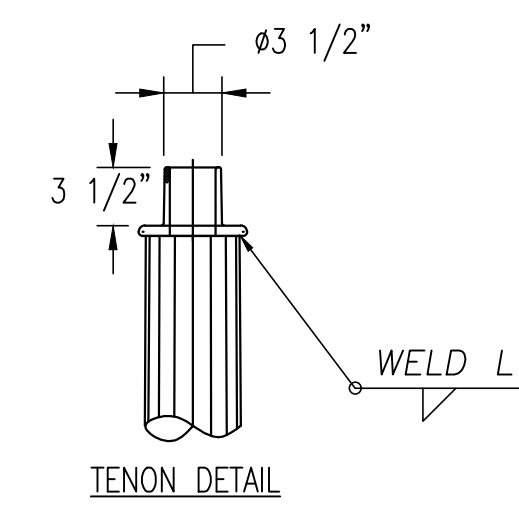


2 POLE TYPE 'C' DETAIL (ONE PIECE ALUMINUM)
Scale: NTS

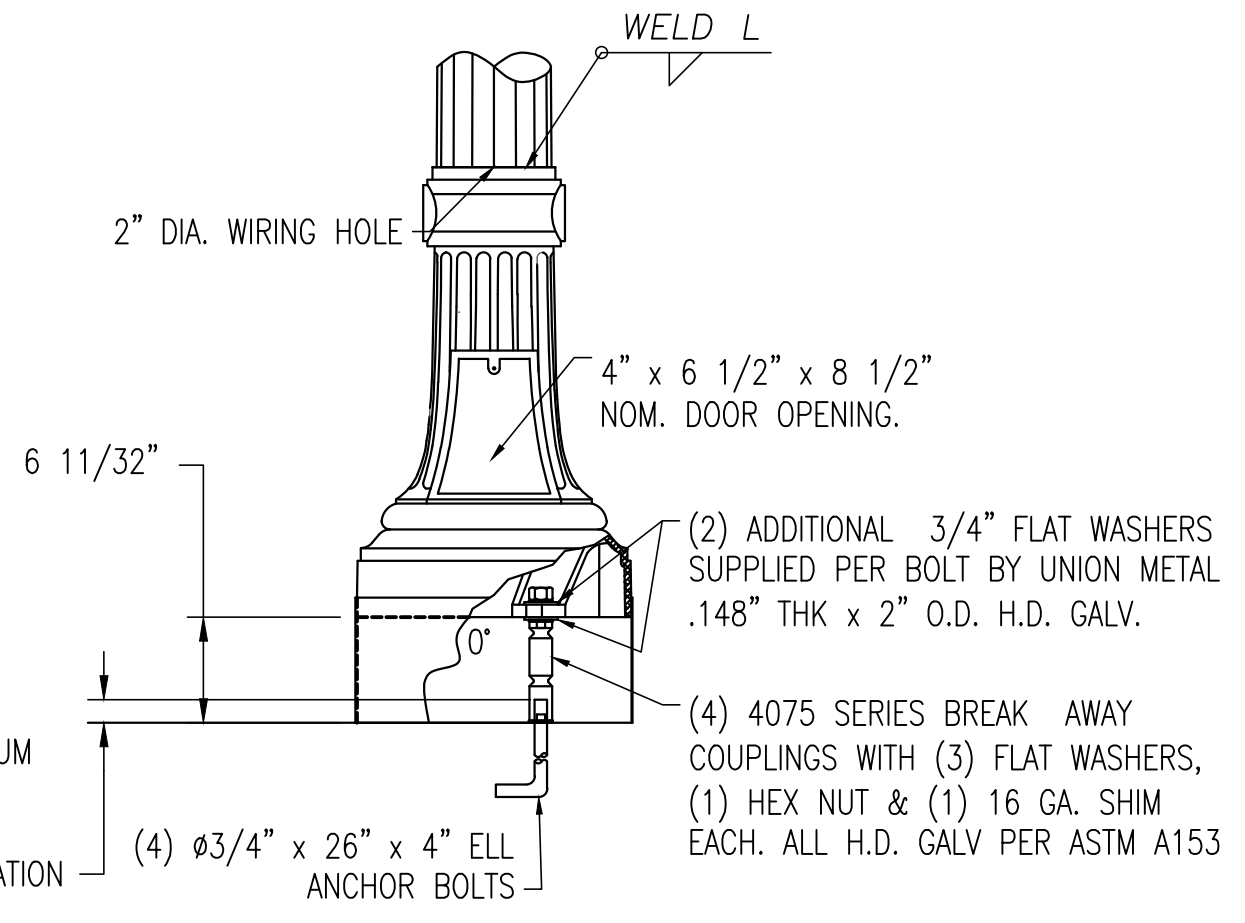
MATERIAL SPECIFICATIONS
 TUBES: AA6063-T4
 ANCHOR BOLTS: AASHTO M314 GR. 55 GALV. TO ASTM A153
 ANCHOR BOLT NUTS: ASTM A563 GR. A GALV. TO ASTM A153
 MISC. HARDWARE: (STN. STL.) AISI 300 SERIES (18-8)
 MISC. STL. HARDWARE: ASTM A307 GALV. TO ASTM A153
 PEDESTAL BASE: CAST ALUMINUM 356.0F
 FINISH: PER SALES ORDER



COVER SKIRT DETAIL
16 GA ALUMINUM

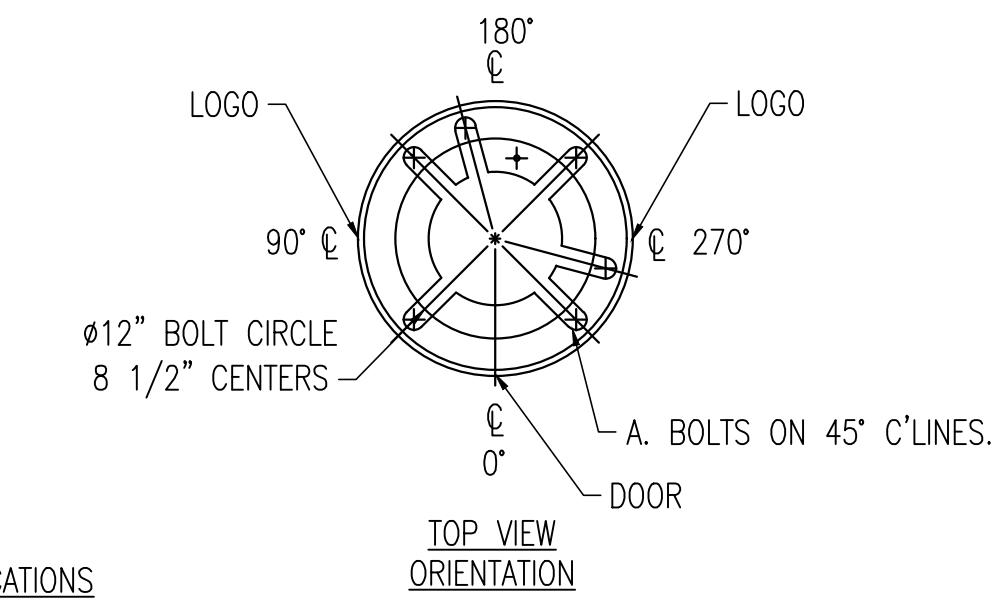


TENON DETAIL

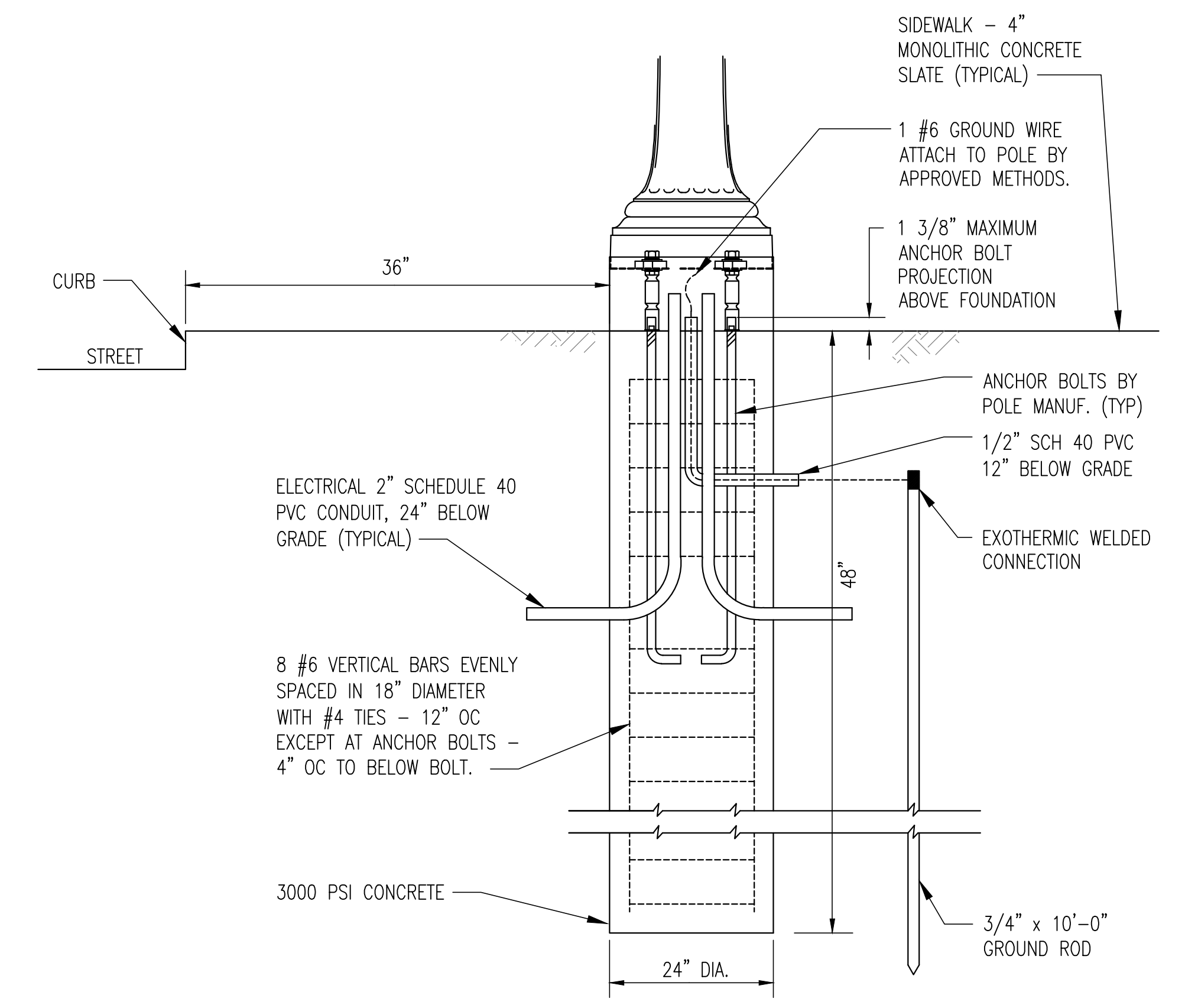


1 3/8" MAXIMUM ANCHOR BOLT PROJECTION ABOVE FOUNDATION

(2) ADDITIONAL 3/4" FLAT WASHERS SUPPLIED PER BOLT BY UNION METAL .148" THK X 2" O.D. H.D. GALV.
 (4) 4075 SERIES BREAK AWAY COUPLINGS WITH (3) FLAT WASHERS, (1) HEX NUT & (1) 16 GA. SHIM EACH. ALL H.D. GALV PER ASTM A153



TOP VIEW ORIENTATION



3 POLE FOUNDATION TYPE 'C' DETAIL
Scale: NTS

FIXTURE OPTION TABLE	
ANTIQUE	AL25 32 LED 525 MA 4K ACT MVOLT DCP N 5 ANDG (ON PX NY17 12' F5 CAST CITY LOGO 12 FLUTE EXTRUDED ALUMINUM SHAFT-POLE)
ELA	ELA IMP/18B/V3/100W LED/LENS/FINISH (ON ELA P3046-MOD/H/12'-6"/LOGO/FINISH-POLE)
HOLOPHANE	AS SHOWN ON REFERENCE DRAWING #2

4 FIXTURE TYPE 'C' OPTIONS TABLE
Scale: NTS


1. SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING. THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
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REVISION DATES		

ATLANTA BELTLINE
 OFFICE:
ELECTRICAL DETAILS
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION
 DRAWING No. 25-010



CITY OF ATLANTA
 DEPARTMENT OF PUBLIC WORKS
 STREET LIGHT DIVISION

Street Light Checklist

- Permit Process:** The street light plans must be approved through the permit process or before the street lights are installed. An electrical permit is required from the Bureau of Buildings for the metered pedestal and must be approved before the Street Light Division will inspect the lights.
- Review & Approval Process:** Street Lights plans must be approved by the Street Light Division. To assist with review, photometric plans may be required at the request of the Street Light Engineer. *Street Light approvals are not to be confused with other site plan approval or right-of-way approvals (including SAP approval). Street Light Approval must have Street Lights above the approval. Street Light locations must follow approved plans. If changes are to be made to the plans, then the changes must be re-approved.*
- Location, Layout & Type:** Street Lights must be installed as follows:
 - A minimum of 15 feet from the center of the pole to the center of a tree based on the "street light and tree spacing alignment".
 - A minimum of 6 feet on center (OC) driveway apron flare, parking space and street intersection to the center of the pole.
 - A minimum of 3 feet OC from American Disability Act (ADA) ramps flares, metered pedestal, benches, fire hydrants and bicycle ramps.
 - A minimum of four feet (4') from the back of the curb to the center of the pole except in certain zoning districts (MFC, MFC, NC, LW, SFI, BellLine Overlay) where a minimum of two feet six inches (2'6") from the back of the curb to the center of the pole is required.
 - Layouts must begin with a Cobra head (CH) or Type A light at intersections and driveways depending on City of Atlanta codes and/or nearby existing lights. The layout follows CH/A C CH/A unless otherwise noted in City codes.
 - Street lights shall only be installed on hardscape materials or landscaping of a grass or linoleum species. No other landscaping can surround street lights.
 - Metered pedestals maintained, repaired and serviced by the City of Atlanta must be in the City of Atlanta's Right-of-Way.
 - Specifications and details must include luminaire and pole, cut sheets will not be accepted.
 - All lights must be code green.

Please take into consideration that street lights cannot be installed within 10 feet of overhead power lines and behind down guides.

- Anchoring:** All Street Lights must use poles with breakaway bolts (Type A and Type C) or bases (for Cobra head only).
- Emblem:** The City of Atlanta emblem must be gold and facing the direction of oncoming traffic.

- Wiring:** All wiring must be individually fused and follow City of Atlanta standards as established by the Department of Public Works, Office of Transportation. *All wiring must be aluminum.*
- Luminaires:** All lights must be City of Atlanta standard LEDs and Holophane. If specifications are needed please contact the City of Atlanta Street Light Division.
- Meters:** New installations must be metered and an account established with Georgia Power for the contractor / developer at least 30 days before the inspection occurs and remain active until the lights are transferred. All meters must have commercial breakers and rated 10% lower than Georgia Power's breaker to be approved with street light plans. *New street light installations cannot be added to any existing circuit, connection or metered pedestal.*
- Pre-Construction:** Pre-construction meeting must be scheduled with the Street Light Engineer, Street Light Supervisor and/or Street Light Inspector. *Exact details of the manufacturer of the street lights, color, model number and necessary materials for installation of the lights and type will be discussed. Any changes to the street lights including but not limited to the type of lights, number of lights and location must be discussed; no changes will be accepted after this meeting. A calendar-based email must be sent for confirmation of the preconstruction meeting.*
- Installation:** The contractor/developer must provide the City of Atlanta 10% of each light type to be installed or at least a minimum of one light of each type for locations installing below a total number of 10 street lights. *If you are installing more than one type of light, you must provide 10% of each or at least one of each type. Please note that the City of Atlanta does not provide any materials for installation. We will only provide specifications and details as needed. Please contact the persons listed below concerning the requirements. A form will be sent and a time must be scheduled to drop off the attic stock.*
- Inspections:** The Street Light Engineer, Street Light Supervisor and for Street Light Inspector must complete at least 2 inspections: (1) Before installation (conducts), (2) during installation (before and after) and (3) before the lights are connected to the City circuit or Georgia Power. An actual inspection must be completed after the lights are powered. The lights should always operate in normal operation except during the last inspection, they are turned on and placed back into normal operation for the 30 Days Burn. Inspections are scheduled between 9 am and 2 pm Tuesdays and Thursday only. Schedule inspections 48-72 hours in advance. *A calendar-based email must be sent for confirmation of the scheduled inspection.*

The following must be submitted before inspections are scheduled (30 days after the account is established):

- Copy of the Georgia Power bill
- Date account was established
- Contractor and Electrician Information:
 - General Contractor Name
Company Name
Company Address
Contact Number
Email Address
 - Electrician Name
Company Name

1-Jan-18 Page | 2

Company Address
Contact Number
Email Address

- The attic stock (required 10%) must be delivered to 124 Claire Drive, SW before the 30 Days Burn begins.
- A final wiring diagram and street light plan (if changed from the original approval) must be submitted before the transfer is completed.
- The Street Light Division can be contacted for inspections or questions at the following:
 - Dionne Benton: dbenton@atlantaga.gov 404-656-7662
 - Rawle Gibbs: rgibbs@atlantaga.gov 404-677-0064
 - Walli Bashir: wbashir@atlantaga.gov 404-831-3607

The completion of the inspection will result in a letter of approval to begin the 30 days burn or a punch list. Please allow time for the lights to be transferred over to the City of Atlanta after the 30 days burn period ends. If the lights are turned nonoperation or account closed before the end of the 30 days burn period and/or before the lights are transferred, a new inspection will be required once the lights are operational. This will begin another 30 days burn.

Please note that if during the burn period there are any damages or malfunctioning to the street light equipment including wires, poles knock down and any other issues within in the system; the burn period will start over from the date of an approved re-inspection.

Inspections will include but may not be limited:

- Pre-construction site visit/meeting**
- Before installation - existing street lights and possible conduit (Conduits cannot be cover before inspection) - *No pictures will be accepted.*
- During installation - conduit, positions, rafter and cages
- After installation - to complete the following:
 - Wiring;
 - Quantity and types of lights (including City of Atlanta gold emblem);
 - Spacing and layout of the lights (Light vs. tree & driveway spacing);
 - Poles and luminaire fixtures for proper installation, functionality and type of light;
 - The service points for location and wiring;
 - Account and contractor information must be sent to Dionne E. Benton.

Lack of Inspection or Approval: Any street lights not inspected and/or approved will not be transferred to the City of Atlanta for energy, maintenance and/or servicing. The contractor / developer is responsible for the maintenance, energy and servicing of lights until the new lights will be inspected and approved for service by the City's Street Light Engineer. *Any street lights not inspected, approved or powered from the building cannot contain the City of Atlanta emblem(s). The emblem(s) must be removed immediately.*

The following lights will not be accepted:

- Stenberg
- Power from the building
- Conduit and lights on private property

1-Jan-18 Page | 3

***Inspections are required for relocating lights. Please contact the Street Light Division to schedule an inspection. A calendar-based email must be sent for confirmation. ** The wiring procedures must be followed and plans approved.*

Removal of Lights and Transfer: *Any street lights that need to be removed must be approved by the City of Atlanta Street Light Engineer before removal. The approval of plans does not authorize removals. Authorization for removal must be in writing. This will occur with a letter from the Street Light Engineer. All City of Atlanta Street Lights that are removed must be returned to 124 Claire Drive, SW, even if you are installing new street lights. The accurate return street light return form must be completed and submitted with accurate information. The form must be signed upon returning. Please schedule at least 48-72 hours in advance. Equipment (Street Lights) that is damaged and/or broken will not be accepted. This will require replacements must be delivered before the lights are accepted or transferred to the City of Atlanta. Please do not remove or relocate any City of Atlanta or Georgia Power lights without written authorization of notice to proceed (NTP). A schedule for removal, plan for temporary lighting and schedule for replacement will be required. Please contact the Street Light Engineer immediately at 404-656-7662 (office), 404-677-0964 (cell) and dbenton@atlantaga.gov (email).*

1-Jan-18 Page | 4

NOTE
 THIS IS A REFERENCE DRAWING. REQUIREMENTS SHOWN HERE THAT ARE APPLICABLE TO THIS PROJECT SHALL BE MET. WHERE CONFLICTS MAY EXIST BETWEEN THE PROJECT SPECIFICATIONS OR DRAWINGS AND THE REQUIREMENTS SHOWN ON THIS REFERENCE DRAWING, THE PROJECT SPECIFICATIONS AND DRAWING REQUIREMENTS SHALL PREVAIL.

- SEE 25-001 THRU 25-007 FOR LIGHTING LAYOUT AND CIRCUIT ROUTING, THE SERVICE POINT, POWER PANEL LOCATION, AND HOMERUNS ARE SHOWN ON 25-004.
- SEE 25-008 AND 25-010 FOR ELECTRICAL AND LIGHTING DETAILS.
- SEE 25-009 FOR FIXTURE TABLE.

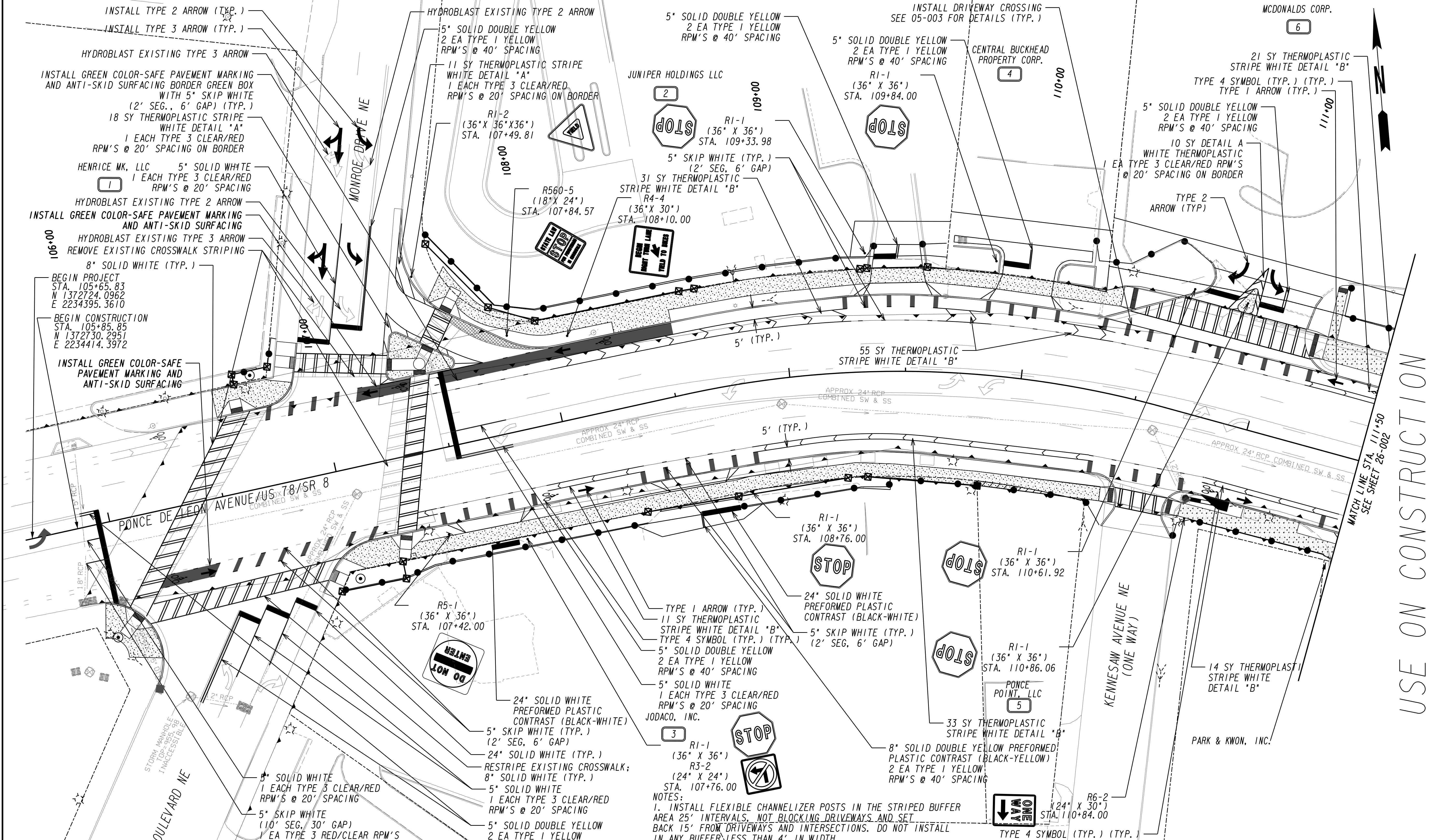


Robert and Company
 Engineers, Architects, Planners
 229 Peachtree Street, N.E. International Tower
 Suite 2000, Atlanta, Georgia 30303-1629
 404 577-4000 FAX: 404 577-7119
www.robertandcompany.com



Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

REVISION DATES		ATLANTA BELTLINE	
		OFFICE:	
			REFERENCE DRAWING #1
			PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION
			DRAWING No. 25-011



INSTALL TYPE 2 ARROW (TYP.)
 INSTALL TYPE 3 ARROW (TYP.)
 HYDROBLAST EXISTING TYPE 3 ARROW
 INSTALL GREEN COLOR-SAFE PAVEMENT MARKING AND ANTI-SKID SURFACING BORDER GREEN BOX WITH 5' SKIP WHITE (2' SEG., 6' GAP) (TYP.)
 18 SY THERMOPLASTIC STRIPE WHITE DETAIL 'A'
 1 EACH TYPE 3 CLEAR/RED RPM'S @ 20' SPACING ON BORDER
 HENRICE MK, LLC
 5' SOLID WHITE
 1 EACH TYPE 3 CLEAR/RED RPM'S @ 20' SPACING
 HYDROBLAST EXISTING TYPE 2 ARROW
 INSTALL GREEN COLOR-SAFE PAVEMENT MARKING AND ANTI-SKID SURFACING
 HYDROBLAST EXISTING TYPE 3 ARROW
 REMOVE EXISTING CROSSWALK STRIPING
 8" SOLID WHITE (TYP.)
 BEGIN PROJECT
 STA. 105+65.83
 N 1372724.0962
 E 2234395.3610
 BEGIN CONSTRUCTION
 STA. 105+85.85
 N 1372730.2951
 E 2234414.3972
 INSTALL GREEN COLOR-SAFE PAVEMENT MARKING AND ANTI-SKID SURFACING

HYDROBLAST EXISTING TYPE 2 ARROW
 5" SOLID DOUBLE YELLOW
 2 EA TYPE 1 YELLOW
 RPM'S @ 40' SPACING
 11 SY THERMOPLASTIC STRIPE WHITE DETAIL 'A'
 1 EACH TYPE 3 CLEAR/RED RPM'S @ 20' SPACING ON BORDER
 R1-2
 (36" X 36" X 36")
 STA. 107+49.81
 R560-5
 (18" X 24")
 STA. 107+84.57
 JUNIPER HOLDINGS LLC
 R1-1
 (36" X 36")
 STA. 109+33.98
 5" SKIP WHITE (TYP.)
 (2' SEG., 6' GAP)
 31 SY THERMOPLASTIC STRIPE WHITE DETAIL 'B'
 R4-4
 (36" X 30")
 STA. 108+10.00
 R5-1
 (36" X 36")
 STA. 107+42.00
 24" SOLID WHITE PREFORMED PLASTIC CONTRAST (BLACK-WHITE)
 5" SKIP WHITE (TYP.)
 (2' SEG., 6' GAP)
 24" SOLID WHITE (TYP.)
 RESTRIPE EXISTING CROSSWALK;
 8" SOLID WHITE (TYP.)
 5" SOLID WHITE
 1 EACH TYPE 3 CLEAR/RED RPM'S @ 20' SPACING
 5" SKIP WHITE
 (10' SEG., 30' GAP)
 1 EA TYPE 3 RED/CLEAR RPM'S

INSTALL DRIVEWAY CROSSING
 SEE 05-003 FOR DETAILS (TYP.)
 5" SOLID DOUBLE YELLOW
 2 EA TYPE 1 YELLOW
 RPM'S @ 40' SPACING
 5" SOLID DOUBLE YELLOW
 2 EA TYPE 1 YELLOW
 RPM'S @ 40' SPACING
 R1-1
 (36" X 36")
 STA. 109+84.00
 CENTRAL BUCKHEAD PROPERTY CORP.
 21 SY THERMOPLASTIC STRIPE WHITE DETAIL 'B'
 TYPE 4 SYMBOL (TYP.) (TYP.)
 TYPE 1 ARROW (TYP.)
 5" SOLID DOUBLE YELLOW
 2 EA TYPE 1 YELLOW
 RPM'S @ 40' SPACING
 10 SY DETAIL A WHITE THERMOPLASTIC
 1 EA TYPE 3 CLEAR/RED RPM'S @ 20' SPACING ON BORDER
 TYPE 2 ARROW (TYP.)
 APPROX 24" RCP COMBINED SW & SS
 5' (TYP.)
 55 SY THERMOPLASTIC STRIPE WHITE DETAIL 'B'
 APPROX 24" RCP COMBINED SW & SS
 5' (TYP.)
 MATCH LINE STA. 111+50
 SEE SHEET 26-002
 USE ON CONSTRUCTION

MONROE DRIVE NE
 PONCE DE LEON AVENUE/US 78/SR 8
 APPROX 24" RCP COMBINED SW & SS
 5' (TYP.)
 APPROX 24" RCP COMBINED SW & SS
 5' (TYP.)
 APPROX 24" RCP COMBINED SW & SS
 5' (TYP.)
 R1-1
 (36" X 36")
 STA. 108+76.00
 24" SOLID WHITE PREFORMED PLASTIC CONTRAST (BLACK-WHITE)
 5" SKIP WHITE (TYP.)
 (2' SEG., 6' GAP)
 R1-1
 (36" X 36")
 STA. 110+61.92
 R1-1
 (36" X 36")
 STA. 110+86.06
 PONCE POINT, LLC
 33 SY THERMOPLASTIC STRIPE WHITE DETAIL 'B'
 8" SOLID DOUBLE YELLOW PREFORMED PLASTIC CONTRAST (BLACK-YELLOW)
 2 EA TYPE 1 YELLOW RPM'S @ 40' SPACING
 R1-1
 (36" X 36")
 STA. 107+76.00
 R3-2
 (24" X 24")
 STA. 107+76.00
 NOTES:
 1. INSTALL FLEXIBLE CHANNELIZER POSTS IN THE STRIPED BUFFER AREA 25' INTERVALS, NOT BLOCKING DRIVEWAYS AND SET BACK 15' FROM DRIVEWAYS AND INTERSECTIONS. DO NOT INSTALL IN ANY BUFFER LESS THAN 4' IN WIDTH.
 R6-2
 (24" X 30")
 STA. 110+84.00
 TYPE 4 SYMBOL (TYP.) (TYP.)

REVISION DATES	
03/27/2020	

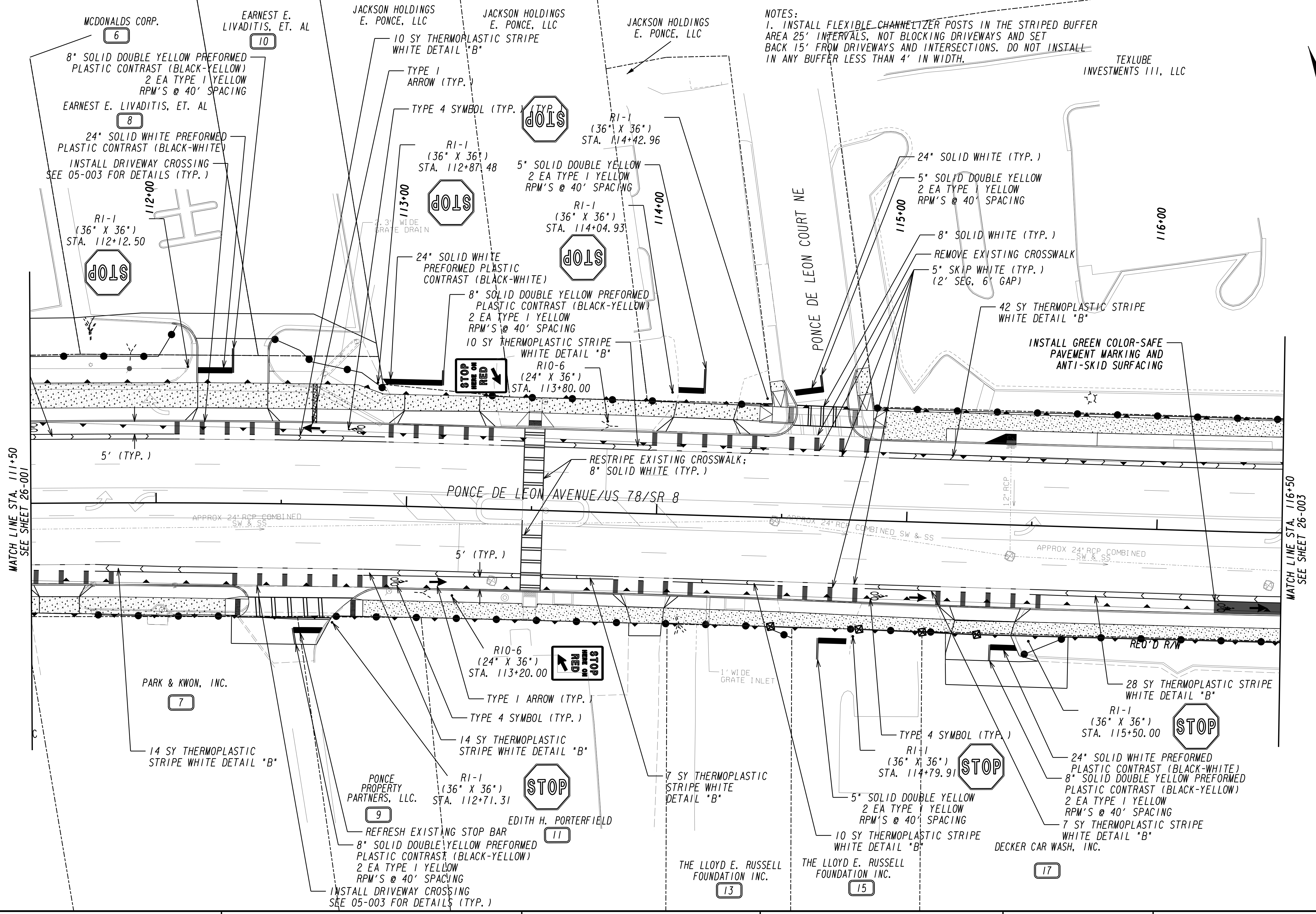
ATLANTA BeltLine

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 817 W. Peachtree Street, NW
 Atlanta, Georgia 30308

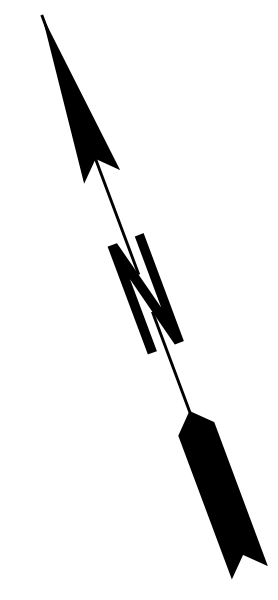
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SIGNING AND MARKING PLANS

DRAWING No. 26-001



NOTES:
 1. INSTALL FLEXIBLE CHANNELIZER POSTS IN THE STRIPED BUFFER AREA 25' INTERVALS, NOT BLOCKING DRIVEWAYS AND SET BACK 15' FROM DRIVEWAYS AND INTERSECTIONS. DO NOT INSTALL IN ANY BUFFER LESS THAN 4' IN WIDTH.

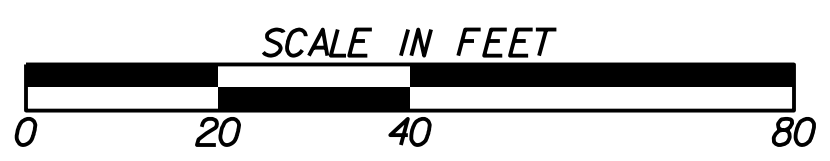


MATCH LINE STA. 111+50
SEE SHEET 26-001

MATCH LINE STA. 116+50
SEE SHEET 26-003

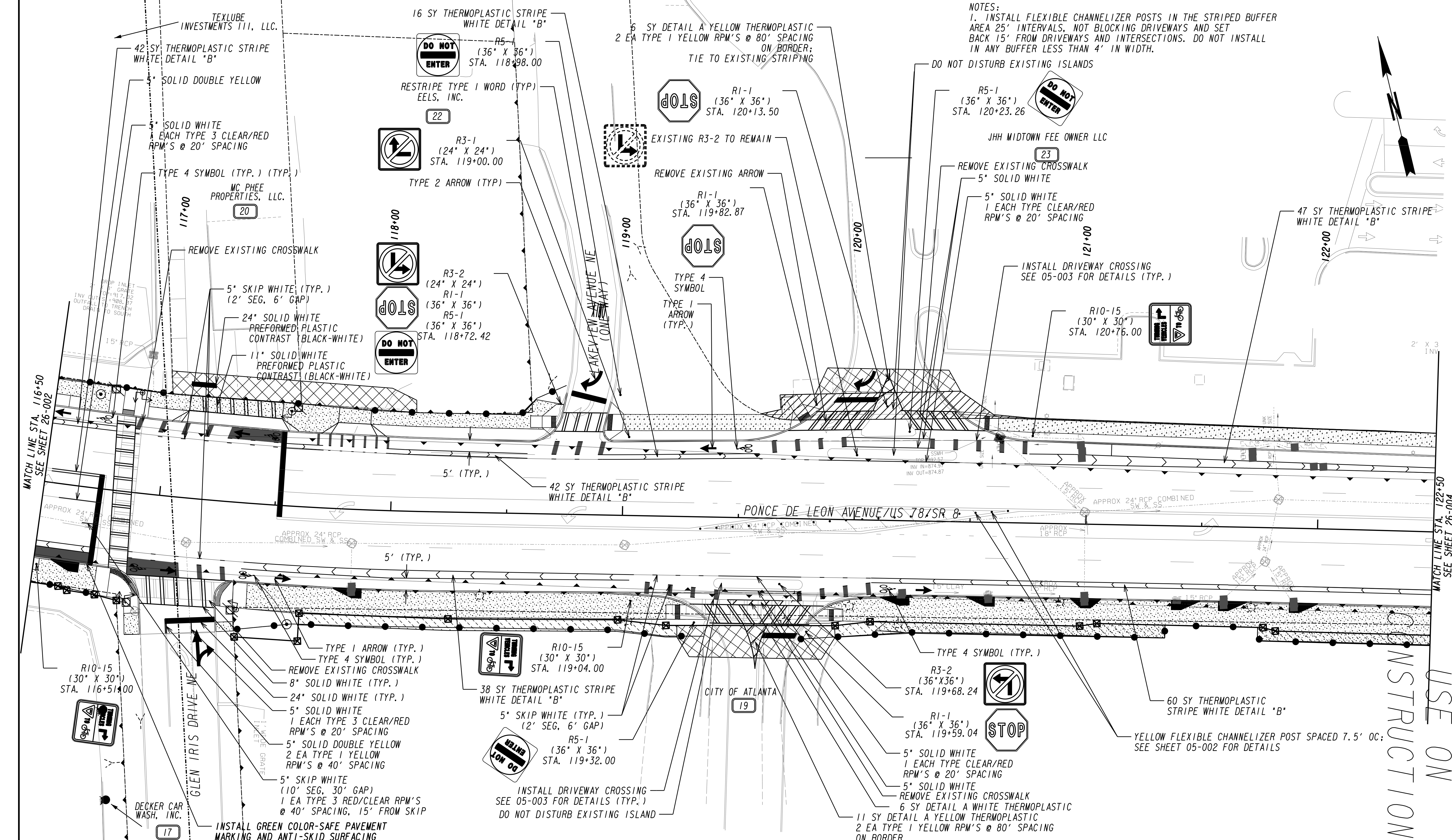


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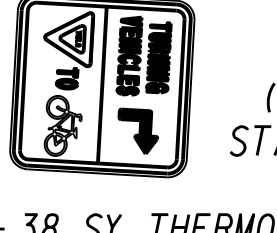
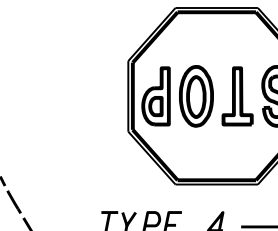
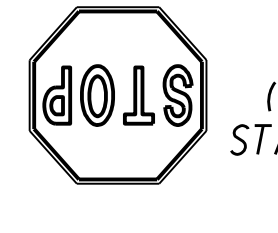
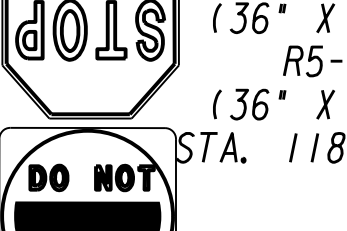
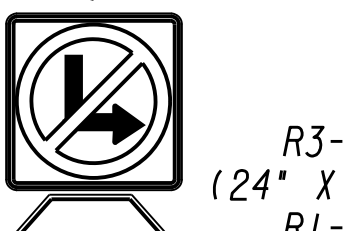
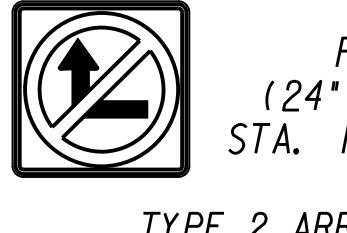
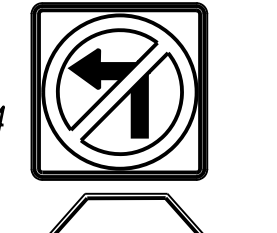
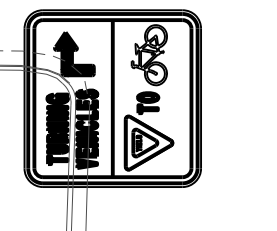


REVISION DATES

ATLANTA BELTLINE
SIGNING AND MARKING PLANS
 DRAWING No. 26-002



NOTES:
 1. INSTALL FLEXIBLE CHANNELIZER POSTS IN THE STRIPED BUFFER AREA 25' INTERVALS, NOT BLOCKING DRIVEWAYS AND SET BACK 15' FROM DRIVEWAYS AND INTERSECTIONS. DO NOT INSTALL IN ANY BUFFER LESS THAN 4' IN WIDTH.



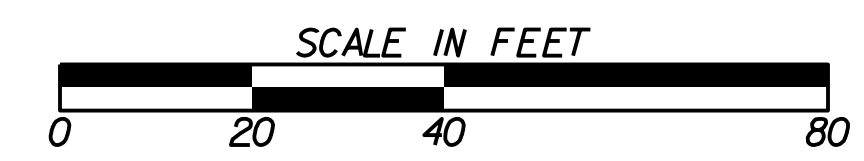
MATCH LINE STA. 116+50
 SEE SHEET 26-002

MATCH LINE STA. 122+50
 SEE SHEET 26-004

CONSTRUCTION
 USE ON



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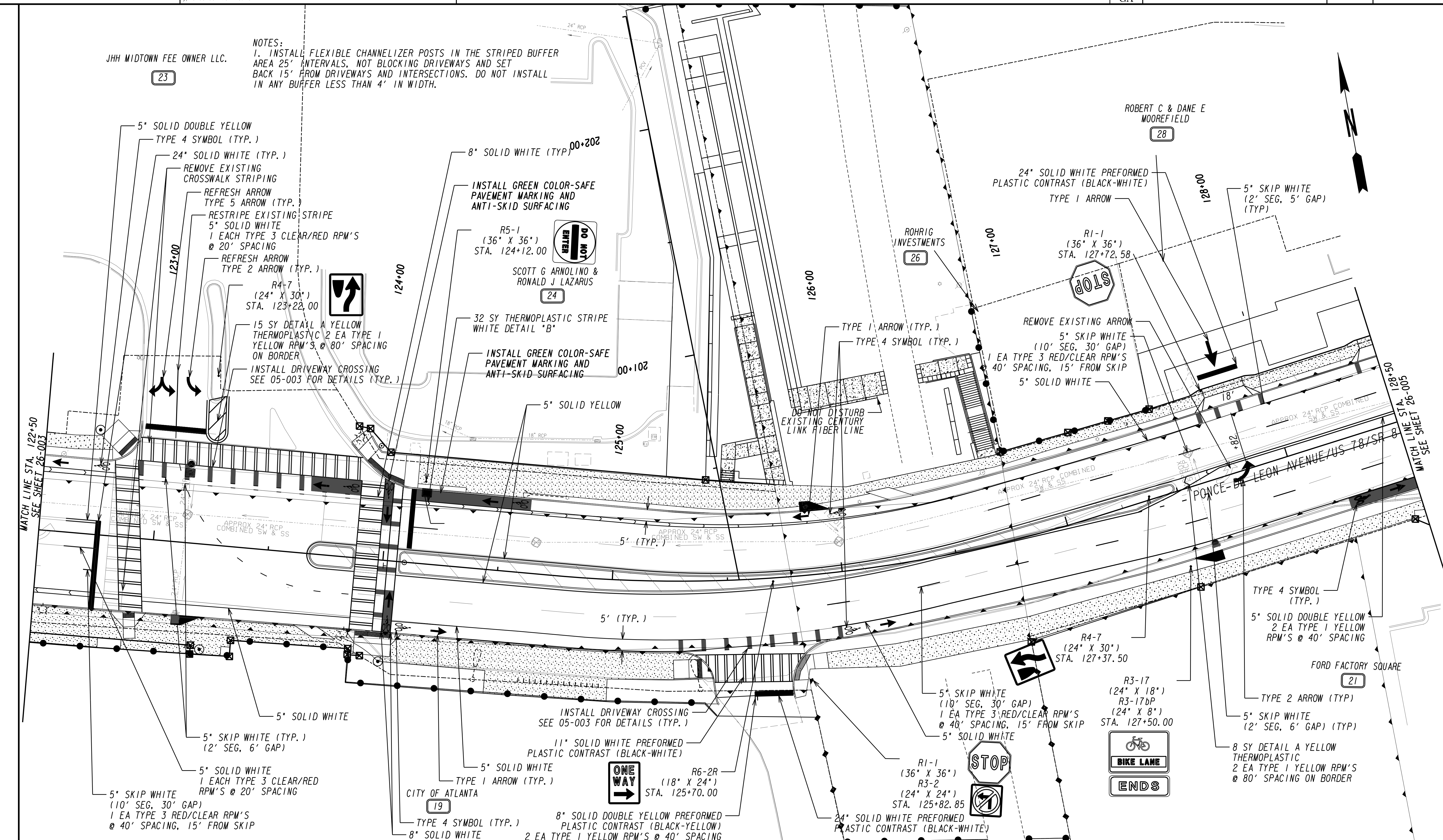


REVISION DATES	
03/27/2020	

ATLANTA BELTLINE
SIGNING AND MARKING PLANS
 DRAWING No. 26-003

JHH MIDTOWN FEE OWNER LLC.
 (23)

NOTES:
 1. INSTALL FLEXIBLE CHANNELIZER POSTS IN THE STRIPED BUFFER AREA 25' INTERVALS. NOT BLOCKING DRIVEWAYS AND SET BACK 15' FROM DRIVEWAYS AND INTERSECTIONS. DO NOT INSTALL IN ANY BUFFER LESS THAN 4' IN WIDTH.



MATCH LINE STA. 122+50
 SEE SHEET 26-003

MATCH LINE STA. 128+50
 SEE SHEET 26-005

5' SOLID DOUBLE YELLOW
 TYPE 4 SYMBOL (TYP.)
 24' SOLID WHITE (TYP.)
 REMOVE EXISTING
 CROSSWALK STRIPING
 REFRESH ARROW
 TYPE 5 ARROW (TYP.)
 RESTRIPE EXISTING STRIPE
 5' SOLID WHITE
 1 EACH TYPE 3 CLEAR/RED RPM'S
 @ 20' SPACING
 REFRESH ARROW
 TYPE 2 ARROW (TYP.)
 R4-7
 (24" X 30")
 STA. 123+22.00

8' SOLID WHITE (TYP.)
 00+202
 INSTALL GREEN COLOR-SAFE
 PAVEMENT MARKING AND
 ANTI-SKID SURFACING
 R5-1
 (36" X 36")
 STA. 124+12.00
 NO NOT ENTER
 (24)

SCOTT G. ARNOLINO &
 RONALD J. LAZARUS
 (24)

32 SY THERMOPLASTIC STRIPE
 WHITE DETAIL "B"

INSTALL GREEN COLOR-SAFE
 PAVEMENT MARKING AND
 ANTI-SKID SURFACING

5' SOLID YELLOW
 125+00

24' SOLID WHITE PREFORMED
 PLASTIC CONTRAST (BLACK-WHITE)
 TYPE 1 ARROW
 128+00

R1-1
 (36" X 36")
 STA. 127+72.58

STOP
 (26)

REMOVE EXISTING ARROW
 5' SKIP WHITE
 (10' SEG, 30' GAP)
 1 EA TYPE 3 RED/CLEAR RPM'S
 @ 40' SPACING, 15' FROM SKIP
 5' SOLID WHITE

5' SKIP WHITE
 (2' SEG, 5' GAP)
 (TYP.)

ROHRIG
 INVESTMENTS
 (26)

ROHRIG INVESTMENTS
 (26)

ROHRIG INVESTMENTS
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ROHRIG INVESTMENTS
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ROHRIG INVESTMENTS
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ROHRIG INVESTMENTS
 (26)

ROHRIG INVESTMENTS
 (26)

5' SOLID WHITE
 5' SKIP WHITE (TYP.)
 (2' SEG, 6' GAP)

5' SOLID WHITE
 1 EACH TYPE 3 CLEAR/RED
 RPM'S @ 20' SPACING

5' SKIP WHITE
 (10' SEG, 30' GAP)
 1 EA TYPE 3 RED/CLEAR RPM'S
 @ 40' SPACING, 15' FROM SKIP

5' SOLID WHITE
 TYPE 1 ARROW (TYP.)

11' SOLID WHITE PREFORMED
 PLASTIC CONTRAST (BLACK-WHITE)

5' SOLID WHITE
 TYPE 4 SYMBOL (TYP.)

8' SOLID DOUBLE YELLOW PREFORMED
 PLASTIC CONTRAST (BLACK-YELLOW)
 2 EA TYPE 1 YELLOW RPM'S @ 40' SPACING

INSTALL DRIVEWAY CROSSING
 SEE 05-003 FOR DETAILS (TYP.)

CITY OF ATLANTA
 (19)

ONE WAY
 (18" X 24")
 STA. 125+70.00

5' SOLID WHITE
 TYPE 1 ARROW (TYP.)

R4-7
 (24" X 30")
 STA. 127+37.50

5' SKIP WHITE
 (10' SEG, 30' GAP)
 1 EA TYPE 3 RED/CLEAR RPM'S
 @ 40' SPACING, 15' FROM SKIP
 5' SOLID WHITE

R1-1
 (36" X 36")
 R3-2
 (24" X 24")
 STA. 125+82.85

STOP
 (26)

24' SOLID WHITE PREFORMED
 PLASTIC CONTRAST (BLACK-WHITE)

TYPE 4 SYMBOL (TYP.)

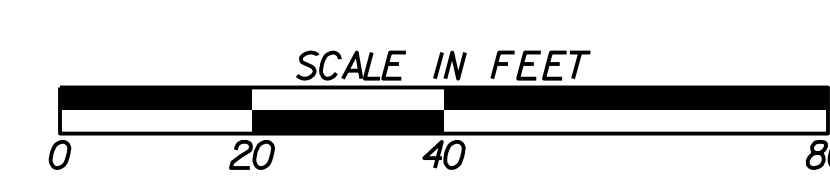
5' SOLID DOUBLE YELLOW
 2 EA TYPE 1 YELLOW
 RPM'S @ 40' SPACING

FORD FACTORY SQUARE
 (21)

TYPE 2 ARROW (TYP.)

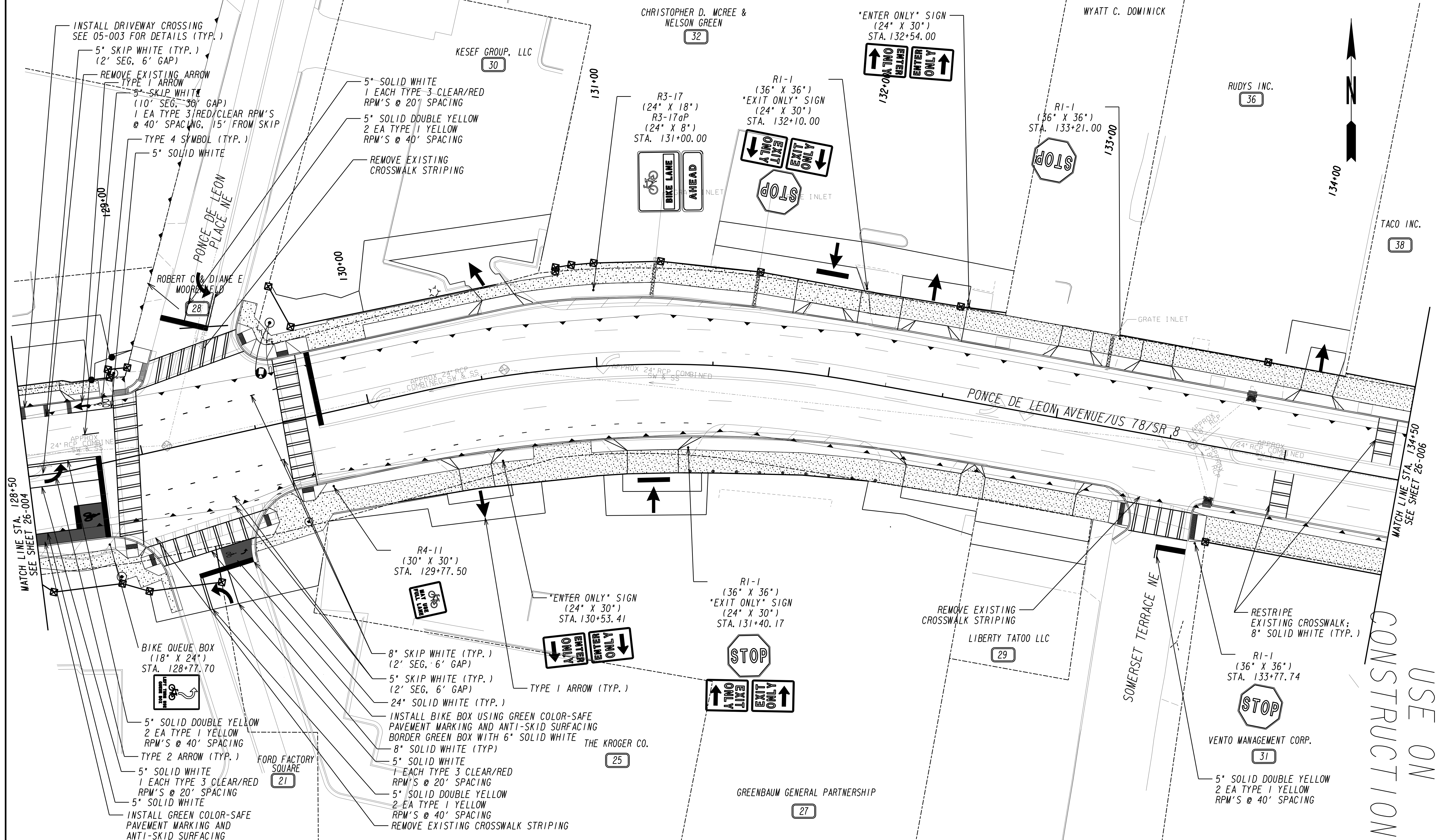
5' SKIP WHITE
 (2' SEG, 6' GAP) (TYP.)

8 SY DETAIL A YELLOW
 THERMOPLASTIC
 2 EA TYPE 1 YELLOW RPM'S
 @ 80' SPACING ON BORDER



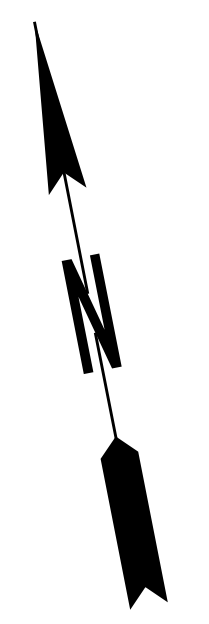
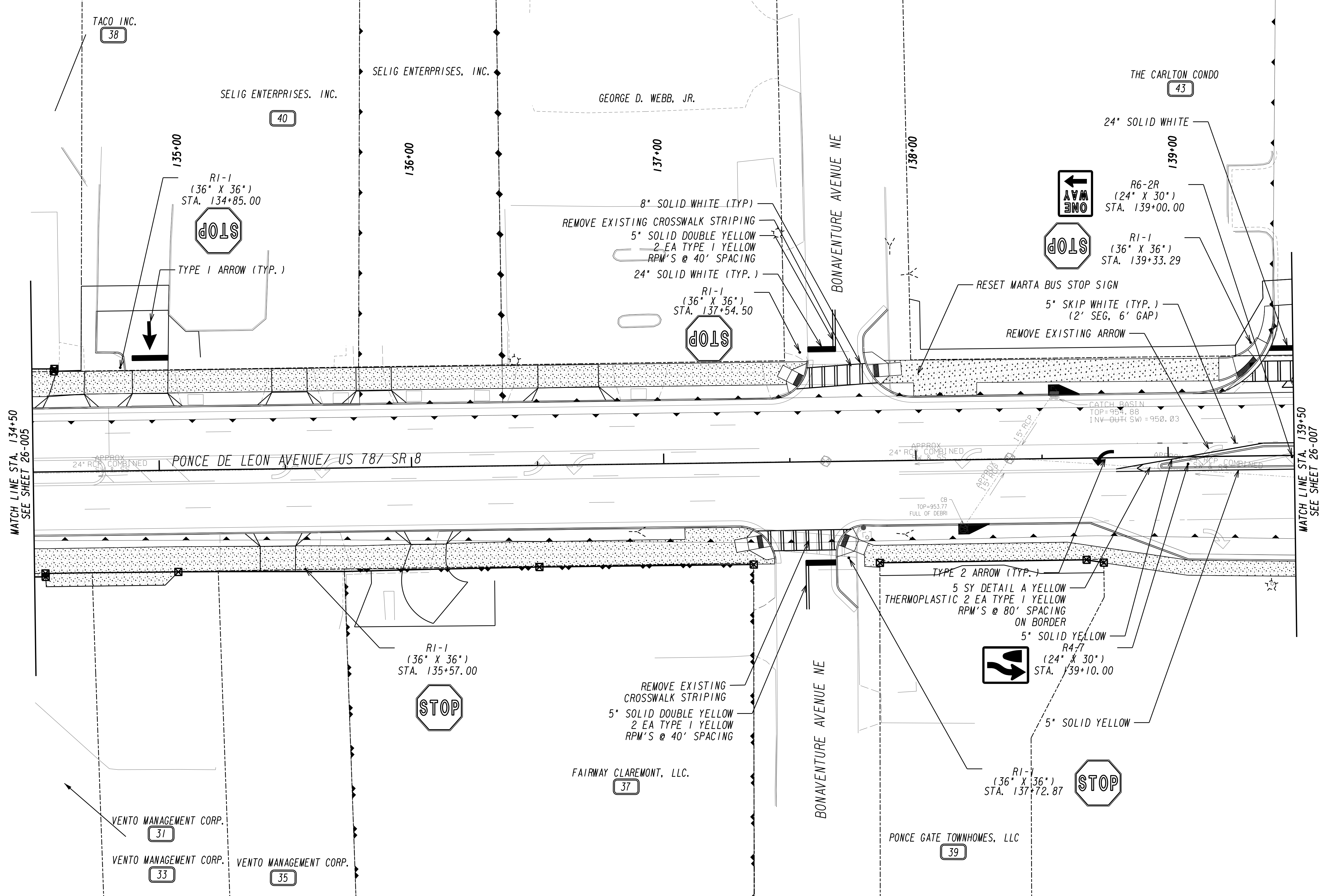
REVISION DATES

ATLANTA BELTLINE
SIGNING AND MARKING PLANS
 DRAWING No. 26-004



USE ON CONSTRUCTION

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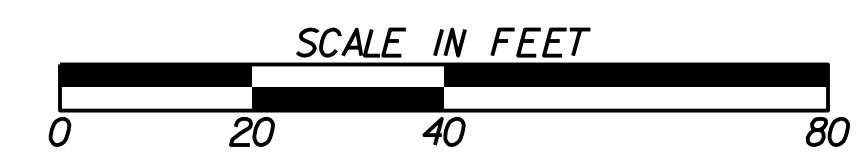


MATCH LINE STA. 134+50
SEE SHEET 26-005

MATCH LINE STA. 139+50
SEE SHEET 26-007



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 Engineering, Planning, and Environmental Consultants
 817 W. Peachtree Street, NW
 Atlanta, Georgia 30308

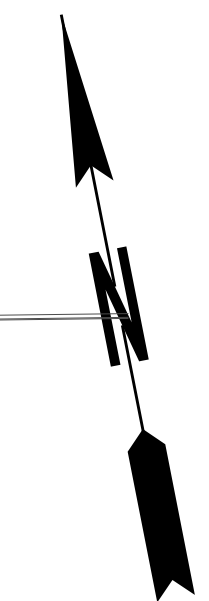
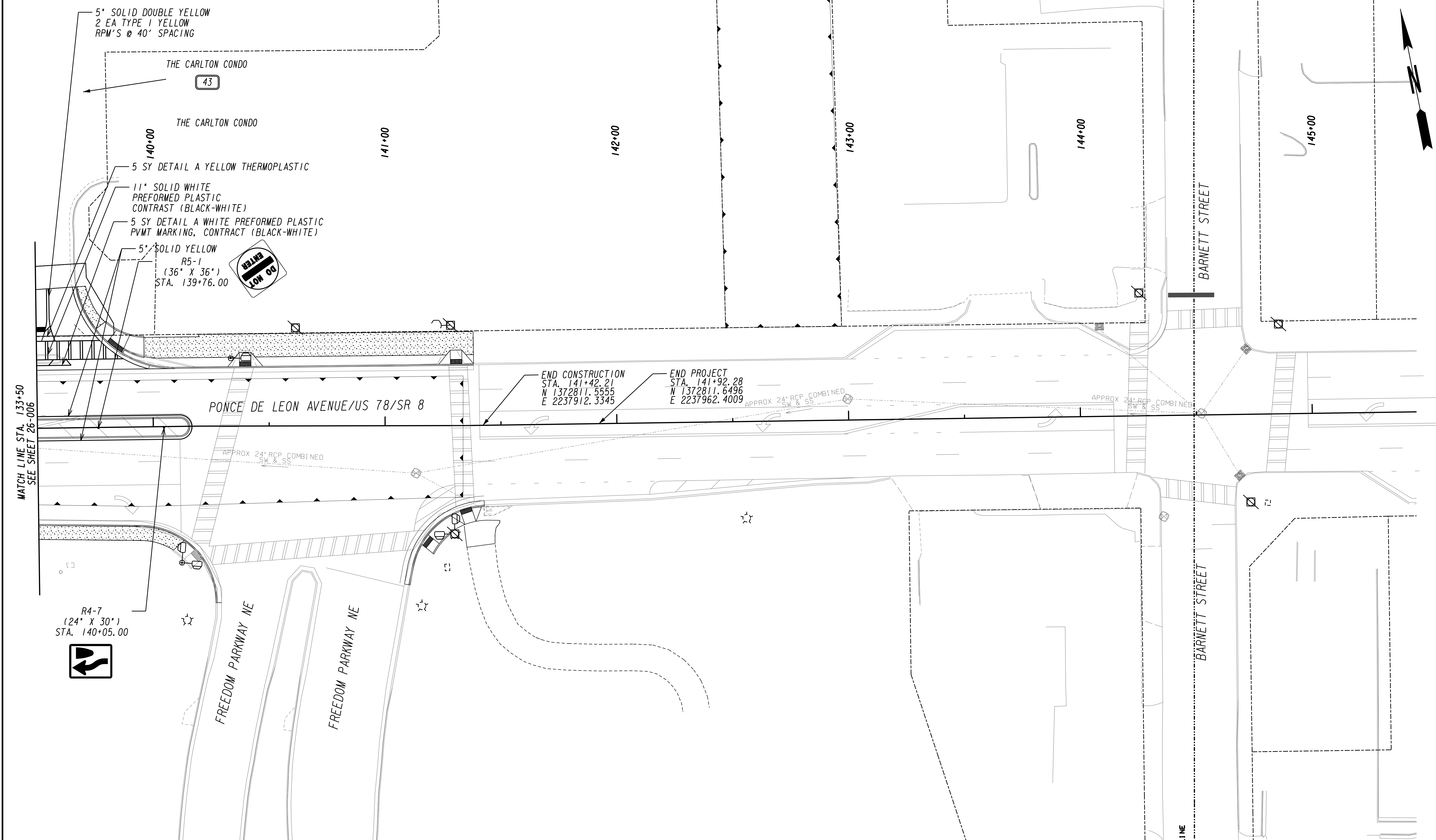


REVISION DATES

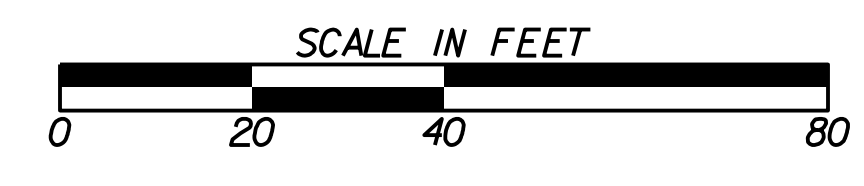
ATLANTA BELTLINE

SIGNING AND MARKING PLANS

DRAWING No. **26-006**



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 817 W. Peachtree Street, NW
 Atlanta, Georgia 30308



REVISION DATES

ATLANTA BELTLINE

SIGNING AND MARKING PLANS

DRAWING No. 26-007

SIGNAL NOTES

1. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION, INCLUDING SUBSEQUENT PUBLISHED RULINGS AND GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
2. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.
3. SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET. DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CONTROL CABINET.
4. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN VICINITY OF NEW TRAFFIC SIGNAL EQUIPMENT BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF 5 FEET) IN LOCATION OF NEW SIGNAL POLES, AT THE DISCRETION OF THE ENGINEER, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINOR ADJUSTMENTS OF PULLBOXES AND CONDUIT, AT THE DISCRETION OF THE ENGINEER, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS MUST BE RETAINED AS SHOWN ON THE PLANS.
5. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATION(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.
6. NEW SIGNAL POLES AND MAST ARMS SHALL MEET REQUIRED CITY OF ATLANTA SPECIFICATIONS.
7. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE CITY TRAFFIC ENGINEER PRIOR TO FINAL ACCEPTANCE. A COMPLETE SET OF WIRING DIAGRAMS SHALL BE FURNISHED TO THE OFFICE OF TRAFFIC & TRANSPORTATION, 68 MITCHELL STREET, SW, ATLANTA, GA 30303, BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE.
8. WHEN REMOVED, EXISTING EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR TO THE CITY OF ATLANTA AS DIRECTED BY THE CITY TRAFFIC ENGINEER. DELIVERY OF EQUIPMENT SHALL BE COORDINATED WITH CITY OF ATLANTA, TRAFFIC OPERATIONS, 404-330-6501.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING POLE FOUNDATION DESIGNS TO THE CITY TRAFFIC ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
10. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE SPECIFICATION.
11. IF A GRASSED AREA OR FURNITURE ZONE IS PROVIDED BEHIND THE BACK OF CURB, THE CONTRACTOR SHALL LOCATE SIGNAL AND LIGHT POLES AT THE BACK OF THE GRASSED AREA OR FURNITURE ZONE. IF THESE ZONES DO NOT EXIST, THE CONTRACTOR SHALL LOCATE THE POLES AT THE BACK OF THE SIDEWALK.
12. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE CITY OF ATLANTA DEPARTMENT OF PUBLIC WORKS PRIOR TO START OF CONSTRUCTION.
13. THE CONTRACTOR IS TO COORDINATE WITH POWER COMPANY FOR UNDERGROUND SERVICE FEED FOR TRAFFIC SIGNALS.
14. ALL POLES AND MAST ARMS SHALL BE MONOTUBE CODA GREEN, TP IV STEEL STRAIN POLES.
15. RADAR DETECTOR UNIT LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT BY CONTRACTOR WITH MANUFACTURER'S GUIDANCE.
16. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL VERTICAL AND HORIZONTAL AERIAL CLEARANCE PER NEC AND GDOT SPECIFICATIONS.
17. ALL SIGNAL POLES AND CONTROLLERS SHALL BE GROUNDED SEPARATELY.

TRAFFIC SIGNAL LEGEND

EXISTING SIGNAL

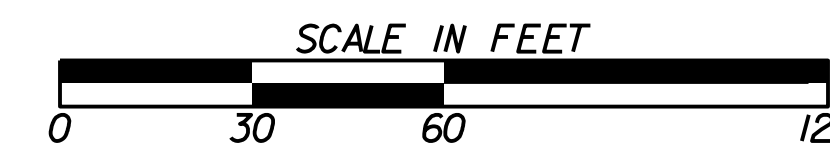
- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 4 SECTION HEAD
- 5 SECTION HEAD
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP
- PULLBOX, TP 1
- PULLBOX, TP 2
- PULLBOX, TP 4
- PULLBOX, TP 5
- 6x6 PULSE LOOP
- 6x18 CALL LOOP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

PROPOSED SIGNAL

- CONTROLLER CABINET WITH BATTERY BACKUP
- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 3 SECTION HEAD W/ BACKPLATE
- 4 SECTION HEAD
- 4 SECTION HEAD W/ BACKPLATE
- 5 SECTION HEAD
- 5 SECTION HEAD W/ BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP - (See ADA Detail)
- PULLBOX, TP 2
- PULLBOX, TP 3
- PULLBOX, TP 5
- 6x6 PULSE LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- DIRECTIONAL BORE CONDUIT
- DIRECT BURY CONDUIT
- RAILROAD CONTROLLER
- SIGN POST
- RADAR DETECTION UNIT
- CCTV CAMERA PTZ ZOOM, TP C, POE

18. CONTRACTOR SHALL LABEL CONDUIT IN PULLBOXES WITH WEATHERPROOF TAGS AS TO DIRECTION OF OF CONDUIT RUNS, EXAMPLE, TO NW, TO SE, ETC.

19. INSTALL ALL CONDUIT UNDER PROPOSED SIDEWALK PRIOR TO INSTALLATION OF SIDEWALK.



REVISION DATES

No.	Date	Description

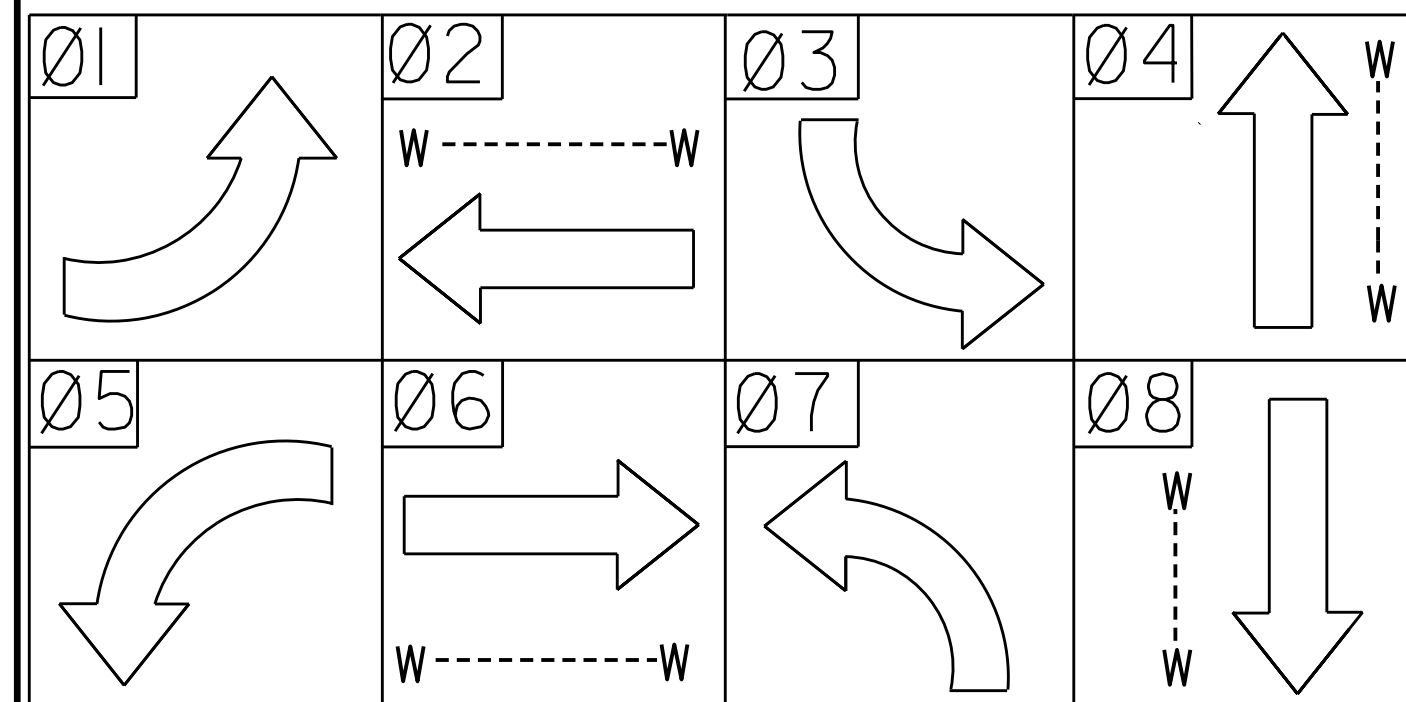
ATLANTA BELTLINE

OFFICE:

SIGNAL PLANS

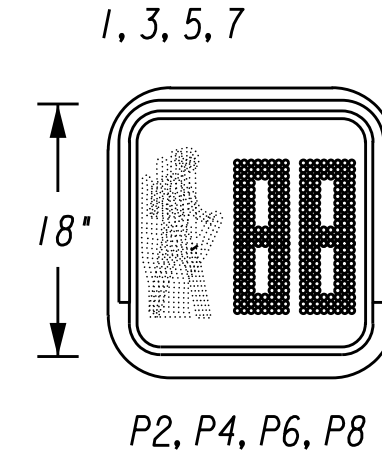
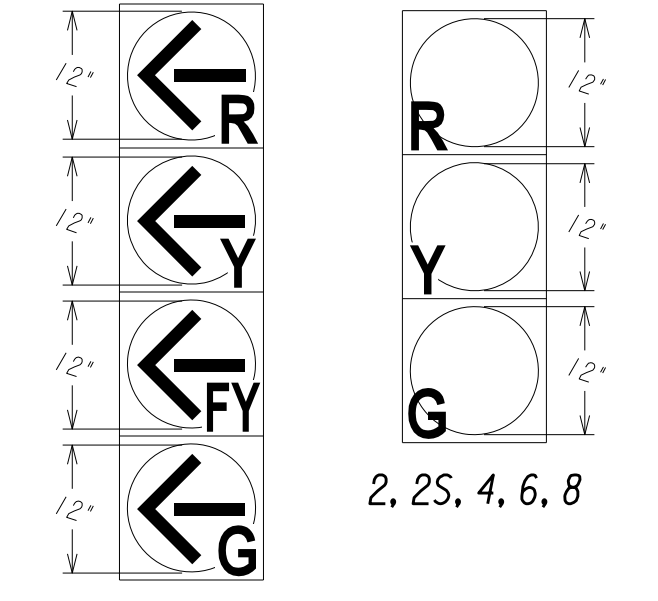
DRAWING No.
27-001

PHASING DIAGRAM

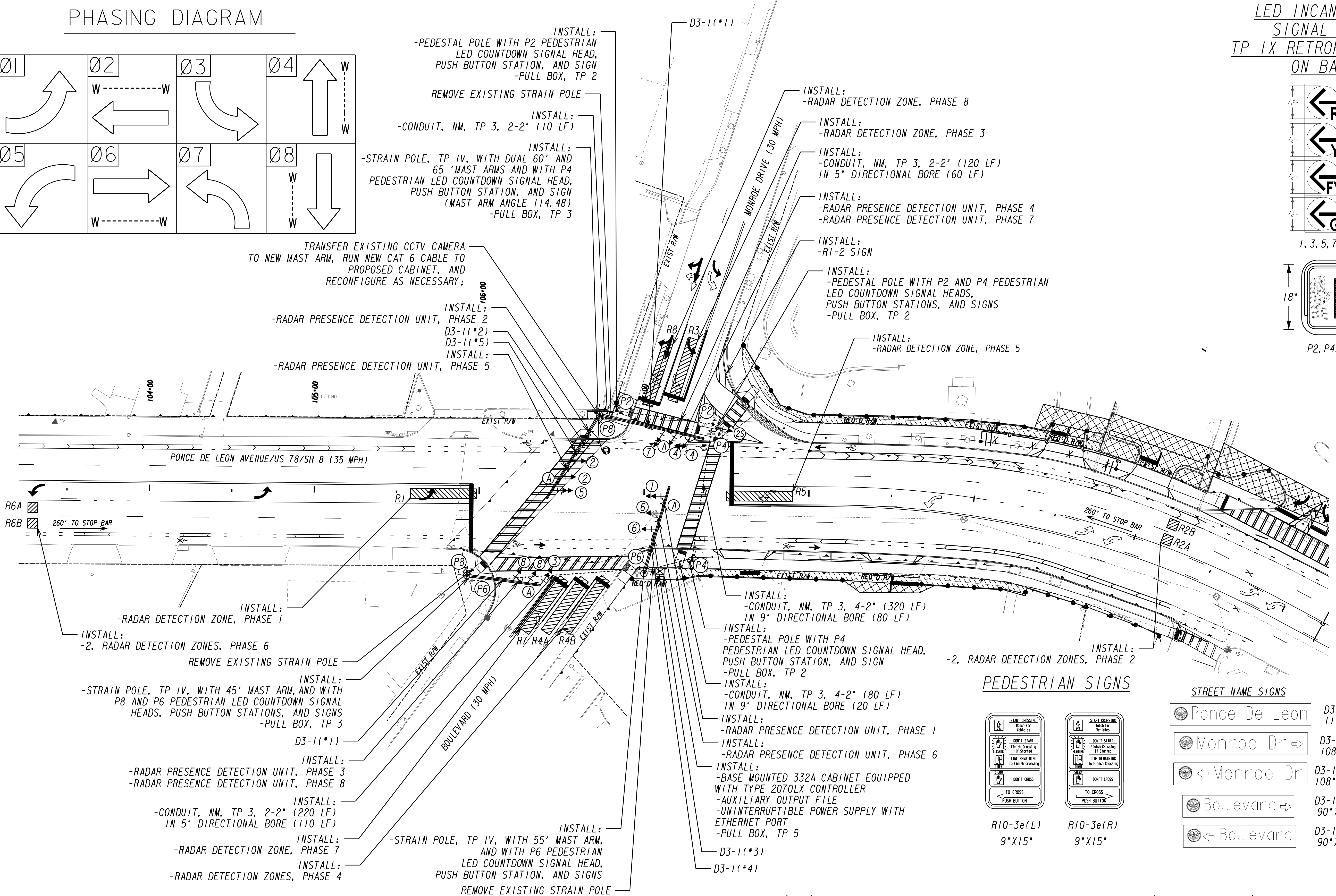


INSTALL:
 -PEDESTAL POLE WITH P2 PEDESTRIAN LED COUNTDOWN SIGNAL HEAD, PUSH BUTTON STATION, AND SIGN
 -PULL BOX, TP 2
 REMOVE EXISTING STRAIN POLE
 INSTALL:
 -CONDUIT, NM, TP 3, 2-2' (10 LF)
 INSTALL:
 -STRAIN POLE, TP IV, WITH DUAL 60' AND 65' MAST ARMS AND WITH P4 PEDESTRIAN LED COUNTDOWN SIGNAL HEAD, PUSH BUTTON STATION, AND SIGN (MAST ARM ANGLE 114.48)
 -PULL BOX, TP 3

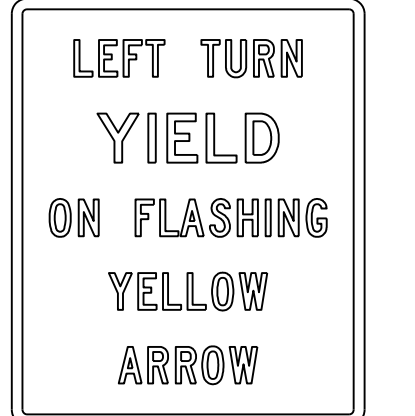
LED INCANDESCENT LOOK SIGNAL HEADS WITH TP IX RETROREFLECTIVE TAPE ON BACKPLATES



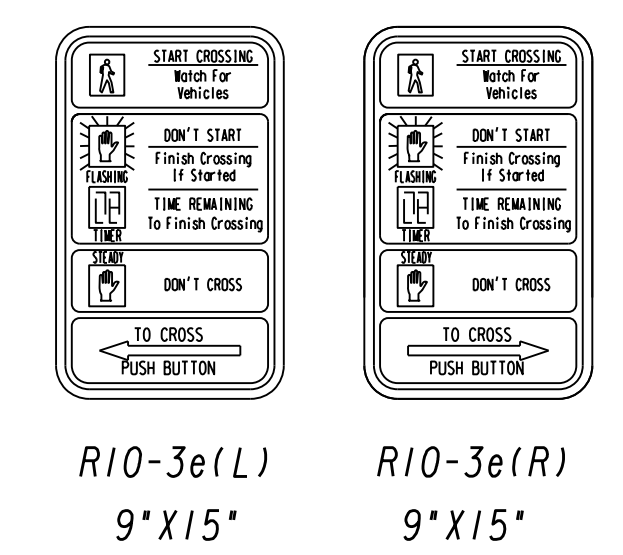
USE ON CONSTRUCTION



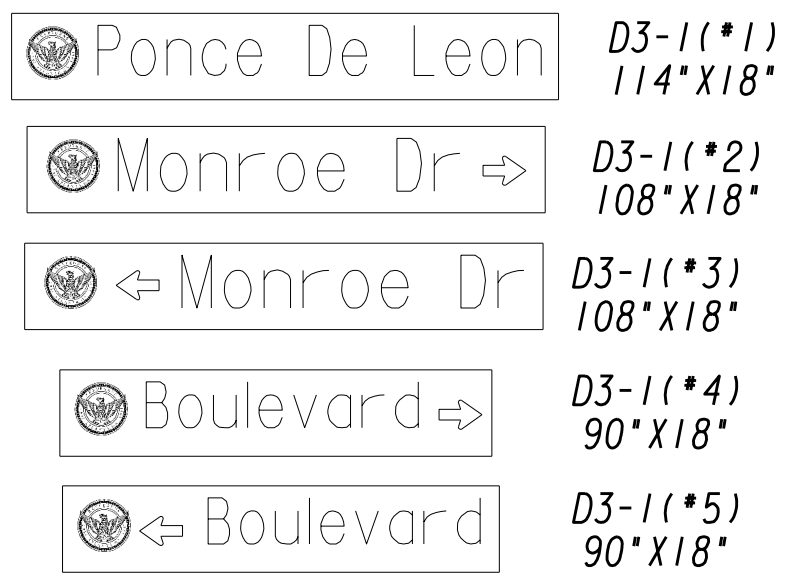
REGULATORY SIGNS



PEDESTRIAN SIGNS



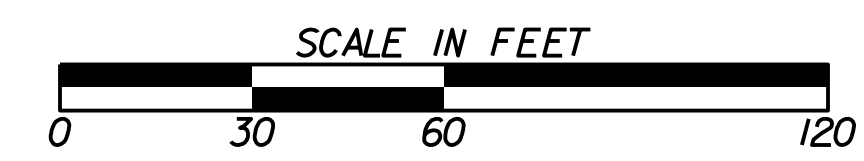
STREET NAME SIGNS



R10-5A (30" X 36")
 R10-3e(L) 9'X15"
 R10-3e(R) 9'X15"
 R1-2 (36" X 36" X 36")



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 817 W. Peachtree Street, NW
 Atlanta, Georgia 30308



REVISION DATES	
03/27/2020	

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 OFFICE:
SIGNAL PLANS
 SIGNAL INSTALLATION #1
 PONCE DE LEON AVE AND MONROE DR/BOULEVARD
 DRAWING No. 27-002

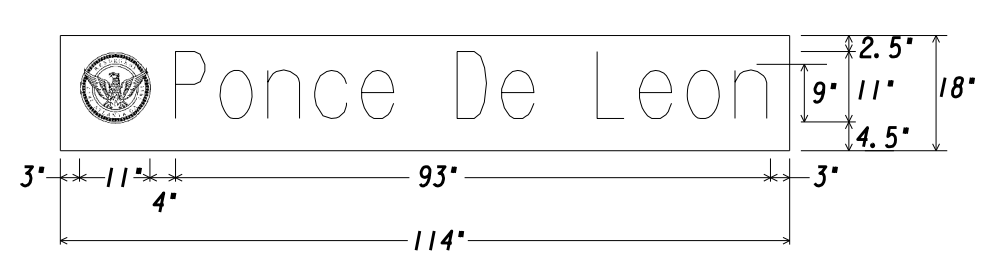
332 Cabinet Input Assignment

Upper Input File (I)	Slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Channel 1	Type	CC	CC			CC	CC						DC	DC	DC	
	CI Pin	56	39	63	47	58	41	65	49	60		80	67	68	81	
	Function	Ph1	Ph2	Ph2	Ph2	Ph3	Ph4	Ph4	Ph4	Ph1		INT ADV	Ph2 PED	Ph6 PED	FLASH	
	Field Term	TB- 2 1,2	TB- 2 5,6	TB- 2 9,10	TB- 4 1,2	TB- 4 5,6	TB- 4 9,10	TB- 6 1,2	TB- 6 5,6	TB- 6 9,10			NC	TB- 8 4,6	TB- 8 7,9	NC
	Channel 2	CI Pin	56	43	76	47	58	45	78	49	62		53	69	70	82
	Function	Ph1	Ph2	Ph2	Ph2	Ph3	Ph4	Ph4	Ph4	Ph3			MCE	Ph4 PED	Ph8 PED	STOP TIME
Field Term	TB- 2 3,4	TB- 2 7,8	TB- 2 11,12	TB- 4 3,4	TB- 4 7,8	TB- 4 11,12	TB- 6 3,4	TB- 6 7,8	TB- 6 11,12			NC	TB- 8 5,6	TB- 8 8,9	NC	
Lower Input File (J)	Slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Type	CC	CC			CC	CC						TBA	TBA	DC	
	Channel 1	CI Pin	55	40	64	48	57	42	66	50	59		54	71	72	51
	Function	Ph5	Ph6	Ph6	Ph6	Ph7	Ph8	Ph8	Ph8	Ph8	Ph5			EVA	EVB	R/R
	Field Term	TB- 3 1,2	TB- 3 5,6	TB- 3 9,10	TB- 5 1,2	TB- 5 5,6	TB- 5 9,10	TB- 7 1,2	TB- 7 5,6	TB- 7 9,10				TB- 9 4,6	TB- 9 7,9	TB- 9 10,12
	Channel 2	CI Pin	55	44	77	48	57	46	79	50	61		75	73	74	52
Function	Ph5	Ph6	Ph6	Ph6 CALL	Ph7	Ph8	Ph8	Ph8	Ph7				EVC	EVD		
Field Term	TB- 3 3,4	TB- 3 7,8	TB- 3 11,12	TB- 5 3,4	TB- 5 7,8	TB- 5 11,12	TB- 7 3,4	TB- 7 7,8	TB- 7 11,12				TB- 9 5,6	TB- 9 8,9	TB- 9 11,12	

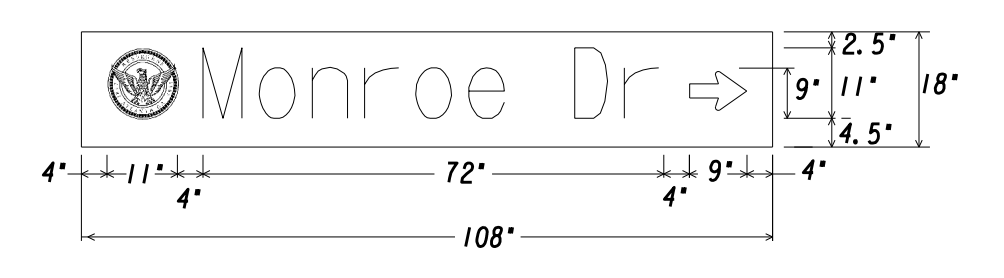
LIST OF MATERIALS
 TRAFFIC SIGNAL INSTALLATION NO. 1
 LOCATION: PONCE DE LEON AVE AT MONROE DR/ BOULEVARD
 FULTON COUNTY

MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX	EA	1
D. CABINET ASSEMBLY, MODEL 332A	EA	1
E. SWITCH PACK	EA	16
F. DC ISOLATOR	EA	3
J. 2010 CONFLICT MONITOR, EXTENDED FEATURES, ETHERNET	EA	1
K. UNINTERRUPTIBLE POWER SUPPLY, ETHERNET		
1. EXTERNAL MOUNTED, (per GDOT specs)	EA	1
L. AUXILIARY OUTPUT FILE, MODEL 332A	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT)		
A. 3 PAIR, 14 AWG	REEL	1
SIGNAL CABLE (14 AWG)		
B. 7 CONDUCTOR, PER 1000 FT.	REEL	3
ONE-WAY, 3-SECTION (R, Y, G), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	9
ONE-WAY, 4-SECTION (R, Y, G, G), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	4
ONE-WAY, 1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/WAN OVERLAP	EA	8
PEDESTRIAN PUSH BUTTON AND SIGN, w/ADAPTER FOR 9" x 15" SIGNS	EA	8
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD	EA	9
BACK PLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD	EA	4
HARDWARE FOR MASTARM MOUNTING	EA	13
HARDWARE FOR PEDESTAL POLE, TOP OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	2
HARDWARE FOR PEDESTAL POLE, TOP OF POLE MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	1
HARDWARE FOR STRAIN POLE, SIDE OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	4
CONDUIT, NONMETL, TP 3, 2 IN	LF	750
PEDESTAL POLE 10 FT	EA	3
PULL BOX, PB-2	EA	3
PULL BOX, PB-3	EA	2
R10-5A SIGN	EA	4
CAT 6 CABLE	LF	210
COMPOSITE CABLE, 6 CONDUCTOR FOR RADAR DETECTION UNITS	LF	1070
MISC MATL TO COMPLETE INSTALLATION	LUMP	LS

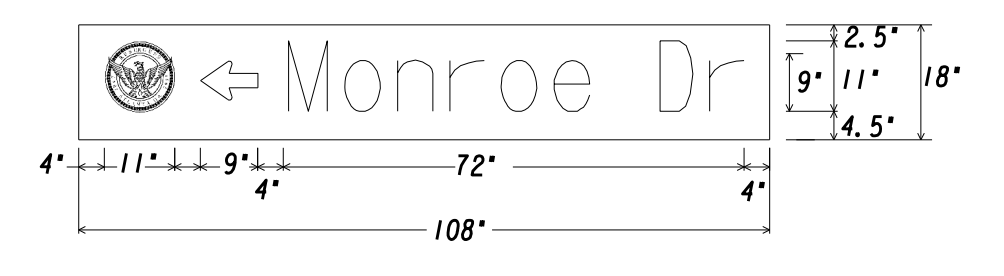
* FOR PAY ITEMS SEE 6-SERIES QUANTITY SHEETS



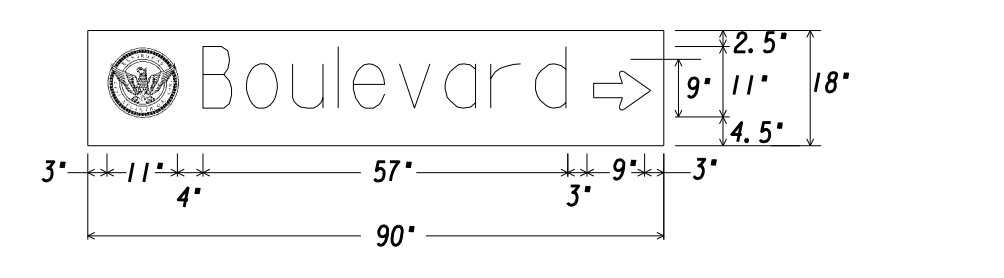
D3-1 (*1)
 114" X 18"
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED



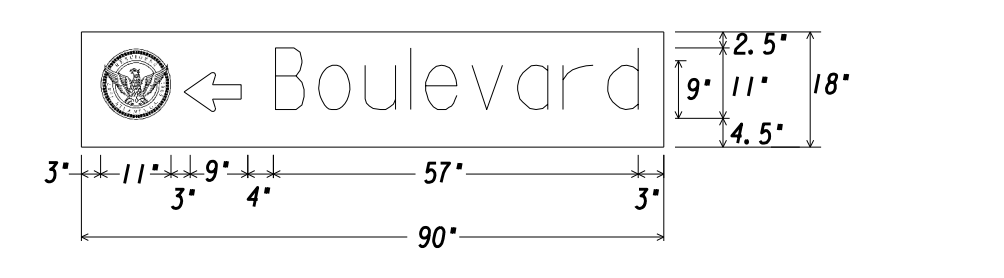
D3-1 (*2)
 108" X 18"
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED



D3-1 (*3)
 108" X 18"
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED



D3-1 (*4)
 90" X 18"
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED



D3-1 (*5)
 90" X 18"
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED

USE ON CONSTRUCTION



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 817 W. Peachtree Street, NW
 Atlanta, Georgia 30308

REVISION DATES

03/27/2020		

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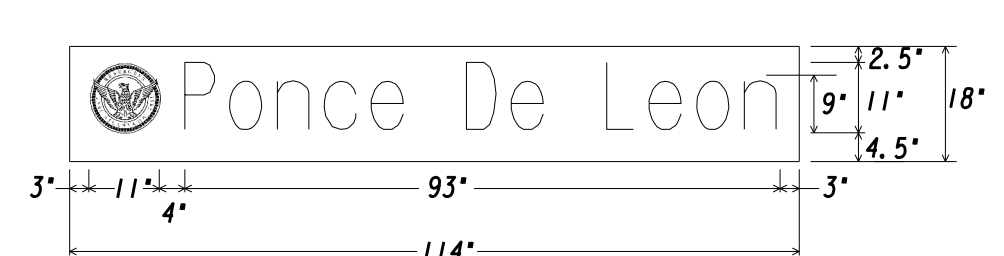
SIGNAL PLANS
 SIGNAL INSTALLATION *1
 PONCE DE LEON AVE AND MONROE DR/BOULEVARD

DRAWING No. 27-003

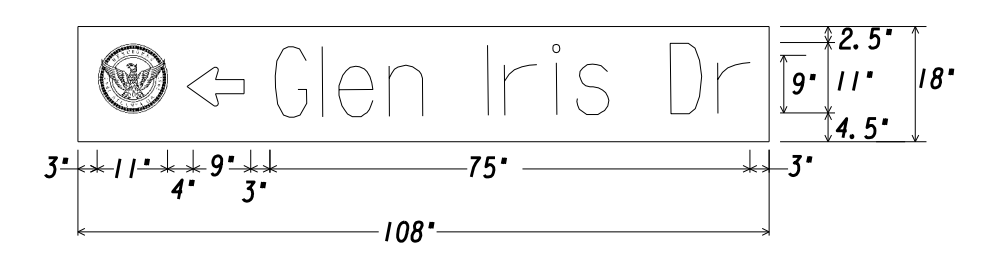
Upper Input File (I)	Slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Channel 1	Type	Det				CC						DC		DC		
	CI Pin	56	39	63	47	58	41	65	49	60		80	67	68	81	
	Function	Ph1	Ph2	Ph2	Ph2	Ph3	Ph4	Ph4	Ph4	Ph1		INT ADV	Ph2	Ph6	FLASH	
	Field Term	TB- 2 1,2	TB- 2 5,6	TB- 2 9,10	TB- 4 1,2	TB- 4 5,6	TB- 4 9,10	TB- 6 1,2	TB- 6 5,6	TB- 6 9,10		NC	TB- 8 4,6	TB- 8 7,9	NC	
	Channel 2	CI Pin	56	43	76	47	58	45	78	49	62		53	69	70	82
	Function	Ph1	Ph2	Ph2	Ph2	Ph3	Ph4	Ph4	Ph4	Ph3			MCE	Ph4	Ph8	STOP TIME
Field Term	TB- 2 3,4	TB- 2 7,8	TB- 2 11,12	TB- 4 3,4	TB- 4 7,8	TB- 4 11,12	TB- 6 3,4	TB- 6 7,8	TB- 6 11,12		NC	TB- 8 5,6	TB- 8 8,9	NC		
Lower Input File (J)	Slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Type	Det		Det		Det						TBA		DC		
	Channel 1	CI Pin	55	40	64	48	57	42	66	50	59		54	71	72	51
	Function	Ph5	Ph6	Ph6	Ph6	Ph7	Ph8	Ph8	Ph8	Ph8	Ph5			EVA	EVB	R/R
	Field Term	TB- 3 1,2	TB- 3 5,6	TB- 3 9,10	TB- 5 1,2	TB- 5 5,6	TB- 5 9,10	TB- 7 1,2	TB- 7 5,6	TB- 7 9,10				TB- 9 4,6	TB- 9 7,9	TB- 9 10,12
	Channel 2	CI Pin	55	44	77	48	57	46	79	50	61		75	73	74	52
Function	Ph5	Ph6	Ph6	Ph6	Ph7	Ph8	Ph8	Ph8	Ph7				EVC	EVD		
Field Term	TB- 3 3,4	TB- 3 7,8	TB- 3 11,12	TB- 5 3,4	TB- 5 7,8	TB- 5 11,12	TB- 7 3,4	TB- 7 7,8	TB- 7 11,12				TB- 9 5,6	TB- 9 8,9	TB- 9 11,12	

LIST OF MATERIALS
 TRAFFIC SIGNAL INSTALLATION NO. 2
 LOCATION: PONCE DE LEON AVE AT GLEN IRIS DRIVE
 FULTON COUNTY

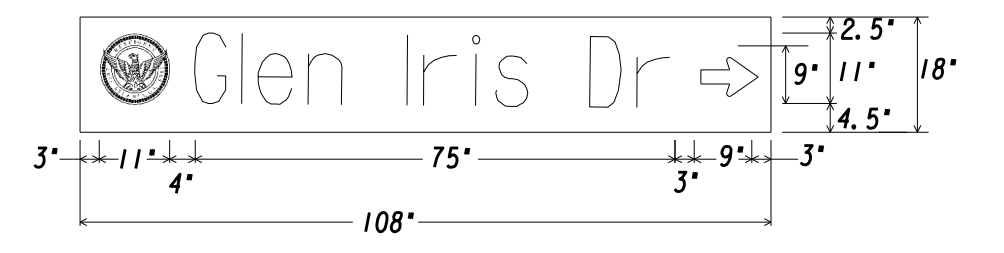
MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX	EA	1
D. CABINET ASSEMBLY, MODEL 332A	EA	1
E. SWITCH PACK	EA	11
F. DC ISOLATOR	EA	3
G. LOOP DETECTOR, 2 CHANNEL	EA	5
J. 2010 CONFLICT MONITOR, EXTENDED FEATURES, ETHERNET	EA	1
K. UNINTERRUPTIBLE POWER SUPPLY, ETHERNET		
I. EXTERNAL MOUNTED, (per GDOT specs)	EA	1
L. AUXILIARY OUTPUT FILE, MODEL 332A	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT)		
A. 3 PAIR, 14 AWG	REEL	2
SIGNAL CABLE (14 AWG)		
B. 7 CONDUCTOR, PER 1000 FT.	REEL	3
LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)	REEL	2
ONE-WAY, 3-SECTION (R, Y, G), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	8
ONE-WAY, 3-SECTION (Ra, Ya, Fya), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	2
ONE-WAY, 4-SECTION (Ra, Ya, Fya, Ga), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	1
ONE-WAY, 1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP	EA	6
PEDESTRIAN PUSH BUTTON AND SIGN, w/ADAPTER FOR 9" x 15" SIGNS	EA	6
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD	EA	10
BACK PLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD	EA	1
HARDWARE FOR MASTARM MOUNTING	EA	11
HARDWARE FOR PEDESTAL POLE, TOP OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	1
HARDWARE FOR PEDESTAL POLE, TOP OF POLE MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	1
HARDWARE FOR STRAIN POLE, SIDE OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	3
PEDESTAL POLE 10 FT	EA	2
LOOP SAW CUT	LF	545
PULL BOX, PB-2	EA	8
PULL BOX, PB-3	EA	3
CONDUIT, NONMETL, TP 3, 2 IN	LF	1380
R9-3 SIGN	EA	2
R9-3A (R) SIGN	EA	1
R9-3A (L) SIGN	EA	1
R10-5A SIGN	EA	2
MISC MATL TO COMPLETE INSTALLATION	LUMP	LS



D3-1 (*1)
 114' X 18'
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED



D3-1 (*2)
 108' X 18'
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED



D3-1 (*3)
 108' X 18'
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED

USE ON CONSTRUCTION

*FOR PAY ITEMS SEE 6-SERIES QUANTITY SHEETS

	<p>Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</p>	REVISION DATES 03/27/2020	ATLANTA BELTLINE
		OFFICE:	SIGNAL PLANS SIGNAL INSTALLATION #2 PONCE DE LEON AVE AND GLEN IRIS DRIVE
			DRAWING No. 27-005

332 Cabinet Input Assignment																
Upper Input File (I)	Slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Type	Det	Det										DC	DC	DC	
Channel 1	CI Pin	56	39	63	47	58	41	65	49	68		80	67	68	81	
	Function	Ph1	Ph2	Ph2	Ph2	Ph3	Ph4	Ph4	Ph4	Ph1		INT ADV	Ph2 PED	Ph6 PED	FLASH	
	Field Term	TB- 2 1,2	TB- 2 5,6	TB- 2 9,10	TB- 4 1,2	TB- 4 5,6	TB- 4 9,10	TB- 6 1,2	TB- 6 5,6	TB- 6 9,10		NC	TB- 8 4,6	TB- 8 7,9	NC	
Channel 2	CI Pin	56	43	76	47	58	45	78	49	62		53	69	70	82	
	Function	Ph1	Ph2	Ph2	Ph2	Ph3	Ph4	Ph4	Ph4	Ph3		MCE	Ph4 PED	Ph8 PED	STOP TIME	
	Field Term	TB- 2 3,4	TB- 2 7,8	TB- 2 11,12	TB- 4 3,4	TB- 4 7,8	TB- 4 11,12	TB- 6 3,4	TB- 6 7,8	TB- 6 11,12		NC	TB- 8 5,6	TB- 8 8,9	NC	
Lower Input File (J)	Slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Type		Det			CC							TBA	TBA	DC	
	Channel 1	CI Pin	55	48	64	48	57	42	66	50	59		54	71	72	51
	Function	Ph5	Ph6	Ph6	Ph6	Ph7	Ph8	Ph8	Ph8	Ph8	Ph5			EVA	EVB	R/R
Channel 2	CI Pin	55	44	77	48	57	46	79	50	61		75	73	74	52	
	Function	Ph5	Ph6	Ph6	Ph6	Ph7	Ph8	Ph8	Ph8	Ph7				EVC	EVD	
	Field Term	TB- 3 1,2	TB- 3 5,6	TB- 3 9,10	TB- 5 1,2	TB- 5 5,6	TB- 5 9,10	TB- 7 1,2	TB- 7 5,6	TB- 7 9,10			TB- 9 4,6	TB- 9 7,9	TB- 9 10,12	

LIST OF MATERIALS
TRAFFIC SIGNAL INSTALLATION NO. 3
LOCATION: PONCE DE LEON AVE AT MIDTOWN PLACE
FULTON COUNTY

MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX	EA	1
D. CABINET ASSEMBLY, MODEL 332A	EA	1
E. SWITCH PACK	EA	8
F. DC ISOLATOR	EA	3
G. LOOP DETECTOR, 2 CHANNEL	EA	3
J. 2010 CONFLICT MONITOR, EXTENDED FEATURES, ETHERNET	EA	1
K. UNINTERRUPTIBLE POWER SUPPLY, ETHERNET	EA	1
1. EXTERNAL MOUNTED, (per GDOT specs)	EA	1
L. AUXILIARY OUTPUT FILE, MODEL 332A	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT)		
A. 3 PAIR, 14 AWG	REEL	2
SIGNAL CABLE (14 AWG)		
B. 7 CONDUCTOR, PER 1000 FT.	REEL	3
LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)	REEL	1
ONE-WAY, 3-SECTION (R,Y,G), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	5
ONE-WAY, 3-SECTION (R,Y,G), 12" EXPANDED VIEW LED BIKE SIGNAL HEAD, PLASTIC	EA	2
ONE-WAY, 3-SECTION (R,Y,G), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	1
ONE-WAY, 3-SECTION (R,Y,G), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	1
ONE-WAY, 4-SECTION (R,Y,G,G), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	1
ONE-WAY, 5-SECTION (R,Y,G,G,G), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	1
ONE-WAY, 1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP	EA	6
PEDESTRIAN PUSH BUTTON AND SIGN, w/ADAPTER FOR 9" x 15" SIGNS	EA	6
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD	EA	9
BACK PLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD	EA	1
BACK PLATE FOR ONE-WAY, 5-SECTION, 12" SIGNAL HEAD	EA	1
HARDWARE FOR MASTARM MOUNTING	EA	11
HARDWARE FOR PEDESTAL POLE, TOP OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	1
HARDWARE FOR PEDESTAL POLE, TOP OF POLE MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	1
HARDWARE FOR STRAIN POLE, SIDE OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	3
PEDESTAL POLE 10 FT	EA	2
PULL BOX, PB-2	EA	8
PULL BOX, PB-3	EA	3
LOOP SAW CUT	LF	320
CONDUIT, NONMETL, TP 3, 2 IN	LF	1215
R10-5A SIGNS	EA	1
R10-11B SIGNS	EA	1
MISC. MATL TO COMPLETE INSTALLATION	LUMP	LS

*FOR PAY ITEMS SEE 6-SERIES QUANTITY SHEETS

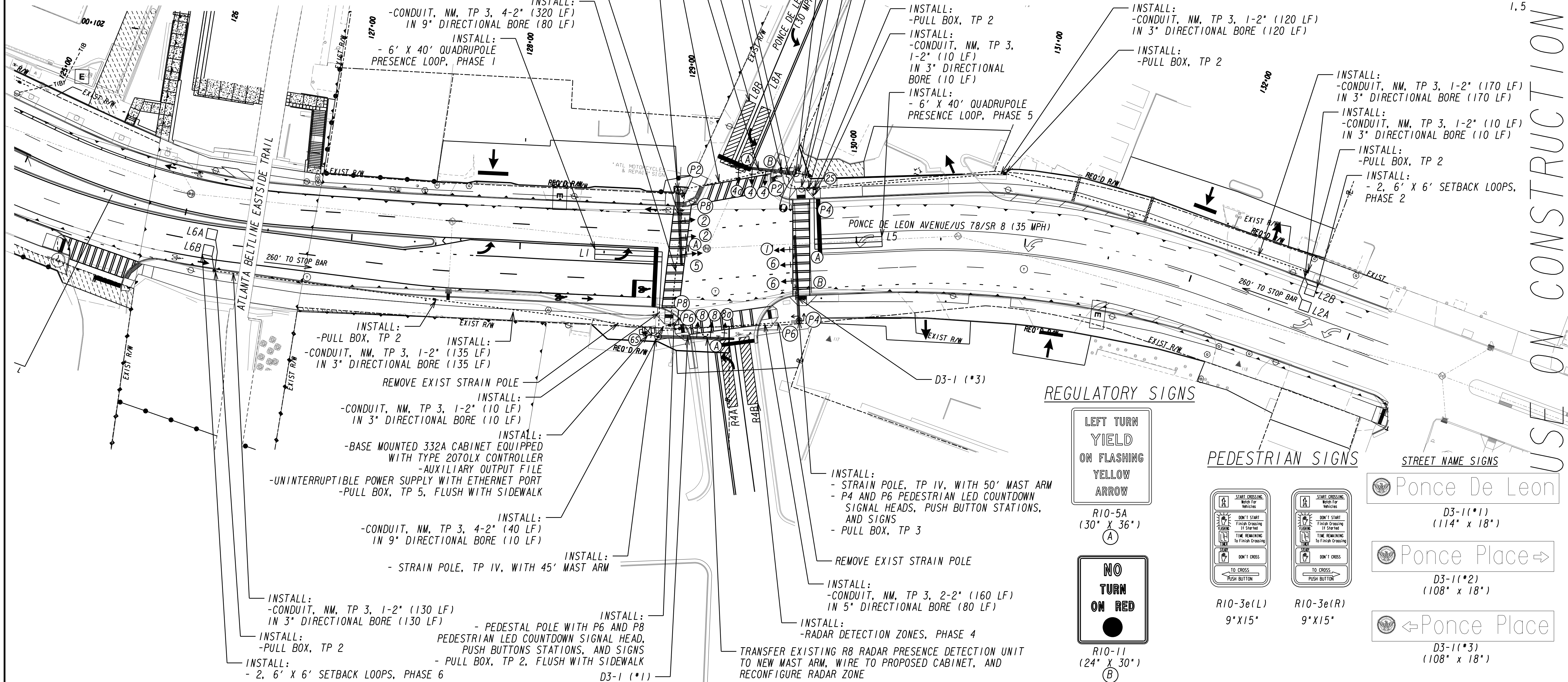
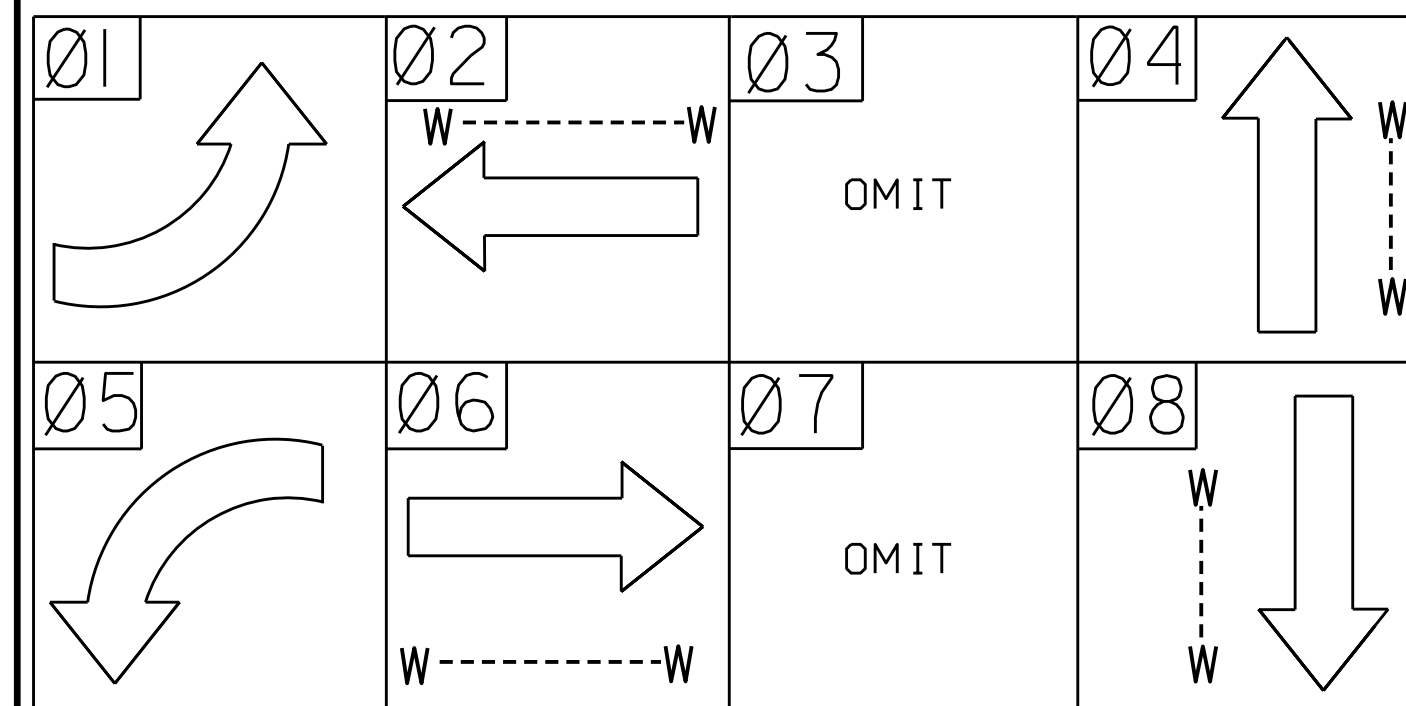
USE ON CONSTRUCTION



D3-1 (*1)
114" X 18"
WHITE ON GREEN
SER B HWY FONT
1 REQUIRED

	<p>Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</p>	REVISION DATES 03/27/2020 04/14/2020	ATLANTA BELTLINE OFFICE:
		SIGNAL PLANS SIGNAL INSTALLATION #3 PONCE DE LEON AVE AT MIDTOWN PLACE	DRAWING No. 27-007

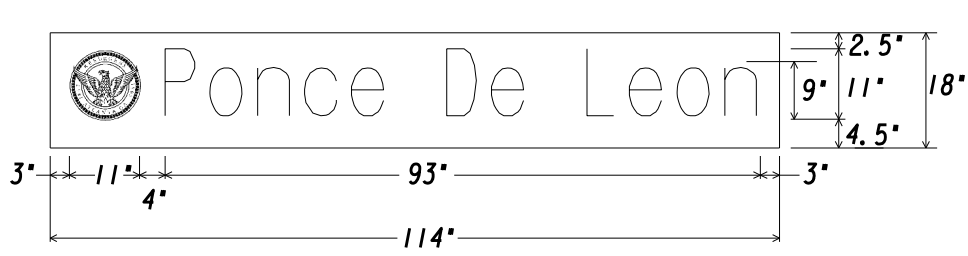
PHASING DIAGRAM



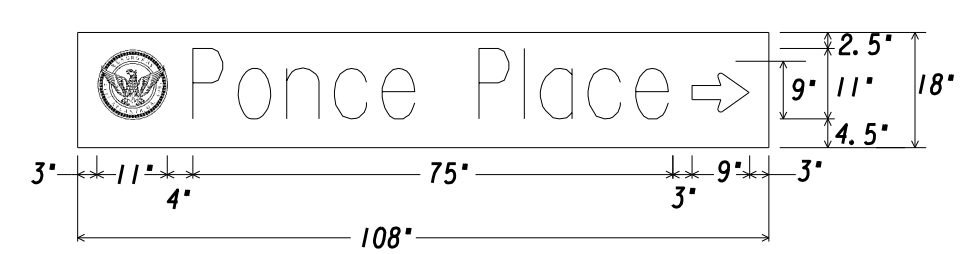
332 Cabinet Input Assignment																
Upper Input File (I)	Slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Type	Det	Det				Det						DC	DC	DC	
Channel 1	CI Pin	56	39	63	47	58	41	65	49	60		80	67	68	81	
	Function	Ph1	Ph2	Ph2	Ph2	Ph3	Ph4	Ph4	Ph4	Ph1		INT	Ph2	Ph6	FLASH	
	Field Term	TB- 2 1,2	TB- 2 5,6	TB- 2 9,10	TB- 4 1,2	TB- 4 5,6	TB- 4 9,10	TB- 6 1,2	TB- 6 5,6	TB- 6 9,10		NC	TB- 8 4,6	TB- 8 7,9	NC	
	Channel 2	CI Pin	56	43	76	47	58	45	78	49	62		53	69	70	82
	Function	Ph1	Ph2	Ph2	Ph2	Ph3	Ph4	Ph4	Ph4	Ph3		MCE	Ph4	Ph8	STOP TIME	
	Field Term	TB- 2 3,4	TB- 2 7,8	TB- 2 11,12	TB- 4 3,4	TB- 4 7,8	TB- 4 11,12	TB- 6 3,4	TB- 6 7,8	TB- 6 11,12		NC	TB- 8 5,6	TB- 8 8,9	NC	
Lower Input File (J)	Slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Type	Det	Det				CC						TBA	TBA	DC	
	Channel 1	CI Pin	55	48	64	48	57	42	66	50	59		54	71	72	51
		Function	Ph5	Ph6	Ph6	Ph6	Ph7	Ph8	Ph8	Ph8	Ph5			EVA	EV8	R/R
	Channel 2	CI Pin	55	44	77	48	57	46	79	50	61		75	73	74	52
		Function	Ph5	Ph6	Ph6	Ph6	Ph7	Ph8	Ph8	Ph8	Ph7			EVC	EVD	
Field Term	TB- 3 1,2	TB- 3 5,6	TB- 3 9,10	TB- 5 1,2	TB- 5 5,6	TB- 5 9,10	TB- 7 1,2	TB- 7 5,6	TB- 7 9,10			TB- 9 4,6	TB- 9 7,9	TB- 9 10,12		
	TB- 3 3,4	TB- 3 7,8	TB- 3 11,12	TB- 5 3,4	TB- 5 7,8	TB- 5 11,12	TB- 7 3,4	TB- 7 7,8	TB- 7 11,12			TB- 9 5,6	TB- 9 8,9	TB- 9 11,12		

LIST OF MATERIALS
 TRAFFIC SIGNAL INSTALLATION NO.4
 LOCATION: PONCE DE LEON AVE AND PONCE DE LEON PL
 FULTON COUNTY

MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX	EA	1
D. CABINET ASSEMBLY, MODEL 332A	EA	1
E. SWITCH PACK	EA	12
F. DC ISOLATOR	EA	3
G. LOOP DETECTOR, 2 CHANNEL	EA	5
J. 2010 CONFLICT MONITOR, EXTENDED FEATURES, ETHERNET	EA	1
K. UNINTERRUPTIBLE POWER SUPPLY, ETHERNET		
I. EXTERNAL MOUNTED, (per GDOT specs)	EA	1
L. AUXILIARY OUTPUT FILE, MODEL 332A	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT)		
A. 3 PAIR, 14 AWG	REEL	2
SIGNAL CABLE (14 AWG)		
B. 7 CONDUCTOR, PER 1000 FT.	REEL	3
LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)		
ONE-WAY, 3-SECTION (R,Y,G), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	10
ONE-WAY, 3-SECTION (R,Y,FYo), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	2
ONE-WAY, 4-SECTION (Rg, Yg, Fyg, Gg), 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC	EA	2
ONE-WAY, 1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP	EA	8
PEDESTRIAN PUSH BUTTON AND SIGN, w/ADAPTER FOR 9" x 15" SIGNS	EA	8
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD	EA	10
BACK PLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD	EA	2
HARDWARE FOR MASTARM MOUNTING		
HARDWARE FOR PEDESTAL POLE, TOP OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	10
HARDWARE FOR PEDESTAL POLE, TOP OF POLE MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	2
HARDWARE FOR STRAIN POLE, SIDE OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	1
PEDESTAL POLE 10 FT	EA	2
PULL BOX, PB-2	EA	3
PULL BOX, PB-3	EA	8
LOOP SAW CUT	LF	3
CONDUIT, NONMETL, TP 3, 2 IN	LF	620
R10-5A SIGNS	EA	1315
R10-11 SIGNS	EA	4
CAT 6 CABLE	EA	2
MISC MATL TO COMPLETE INSTALLATION	LF	200
	LUMP	15



D3-1 (*1)
 114" X 18"
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED



D3-1 (*2)
 108" X 18"
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED

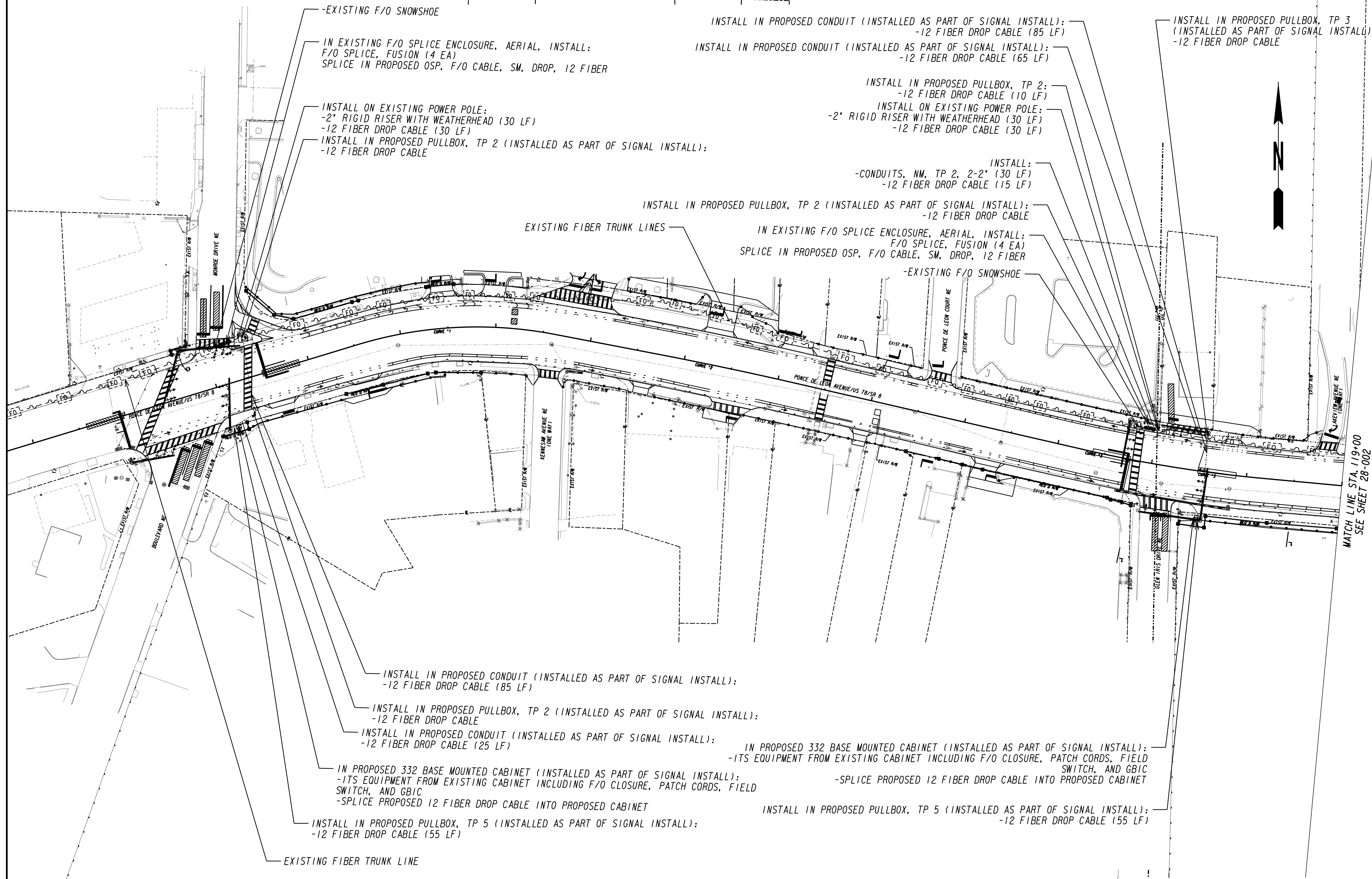


D3-1 (*3)
 108" X 18"
 WHITE ON GREEN
 SER B HWY FONT
 1 REQUIRED

USE ON CONSTRUCTION

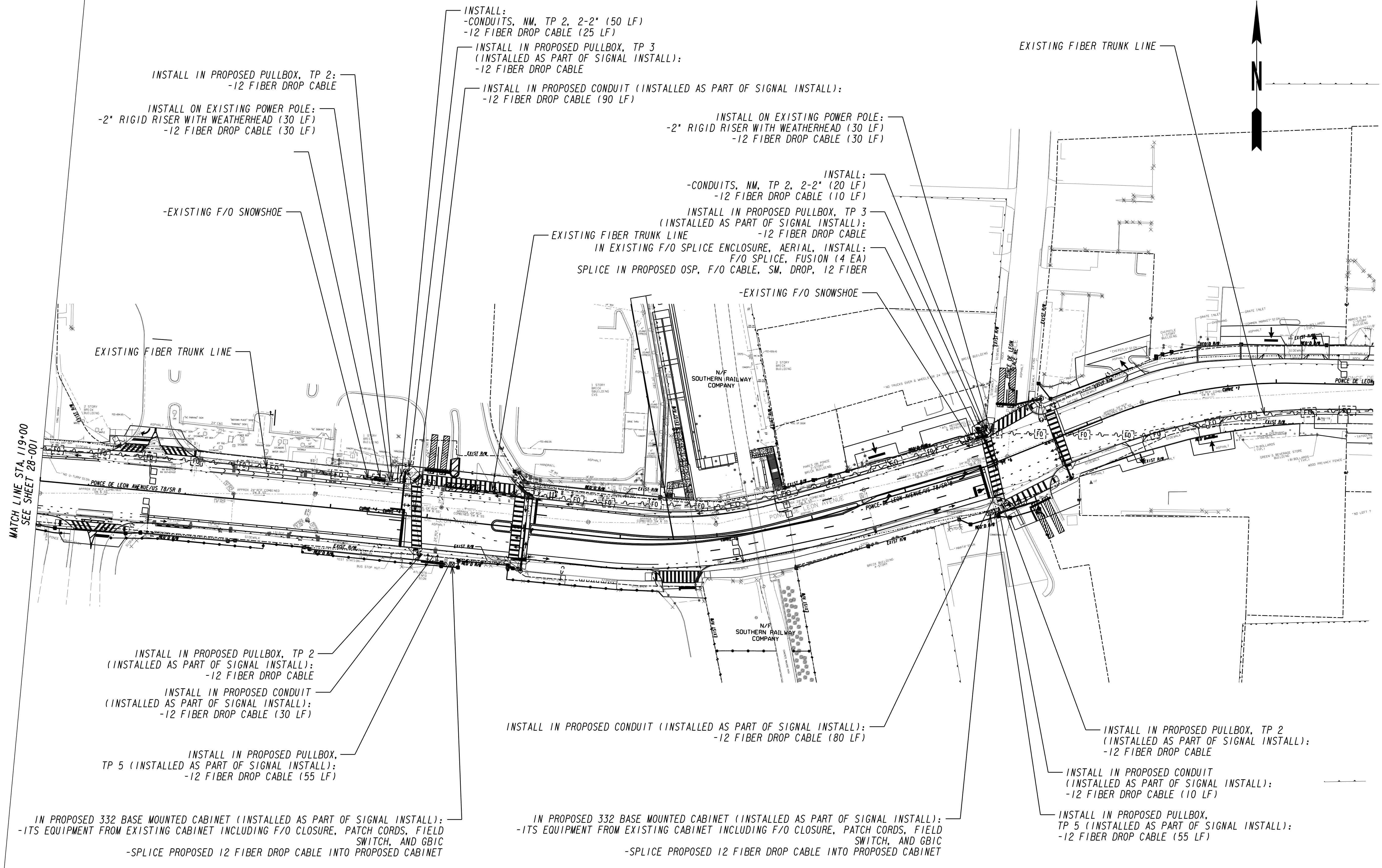
*FOR PAY ITEMS SEE 6-SERIES QUANTITY SHEETS

	<p>Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</p>	REVISION DATES 03/27/2020	ATLANTA BELTLINE
		OFFICE:	SIGNAL PLANS SIGNAL INSTALLATION #4 PONCE DE LEON AVE AND PONCE DE LEON PLACE
			DRAWING No. 27-009



MATCH LINE STA. 119+00
SEE SHEET 28-002

	<p>Engineering, Planning, and Environmental Consultants 817 W. Peachtree Street, NW Atlanta, Georgia 30308</p>	<p>SCALE IN FEET</p>	<p>REVISION DATES</p> <table border="1"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>																<p>ATLANTA BELTLINE</p> <p>OFFICE:</p> <p>ITS PLANS</p>
<p>5/20/2011 620EDG</p>	<p>DRAWING No.</p> <p>28-001</p>																		



MATCH LINE STA. 119+00
SEE SHEET 28-001

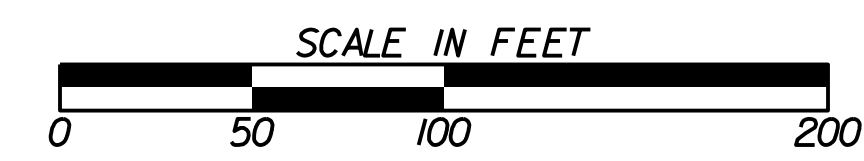
IN PROPOSED 332 BASE MOUNTED CABINET (INSTALLED AS PART OF SIGNAL INSTALL):
 -ITS EQUIPMENT FROM EXISTING CABINET INCLUDING F/O CLOSURE, PATCH CORDS, FIELD SWITCH, AND GBIC
 -SPlice PROPOSED 12 FIBER DROP CABLE INTO PROPOSED CABINET

IN PROPOSED 332 BASE MOUNTED CABINET (INSTALLED AS PART OF SIGNAL INSTALL):
 -ITS EQUIPMENT FROM EXISTING CABINET INCLUDING F/O CLOSURE, PATCH CORDS, FIELD SWITCH, AND GBIC
 -SPlice PROPOSED 12 FIBER DROP CABLE INTO PROPOSED CABINET

INSTALL IN PROPOSED PULLBOX, TP 5 (INSTALLED AS PART OF SIGNAL INSTALL):
 -12 FIBER DROP CABLE (55 LF)



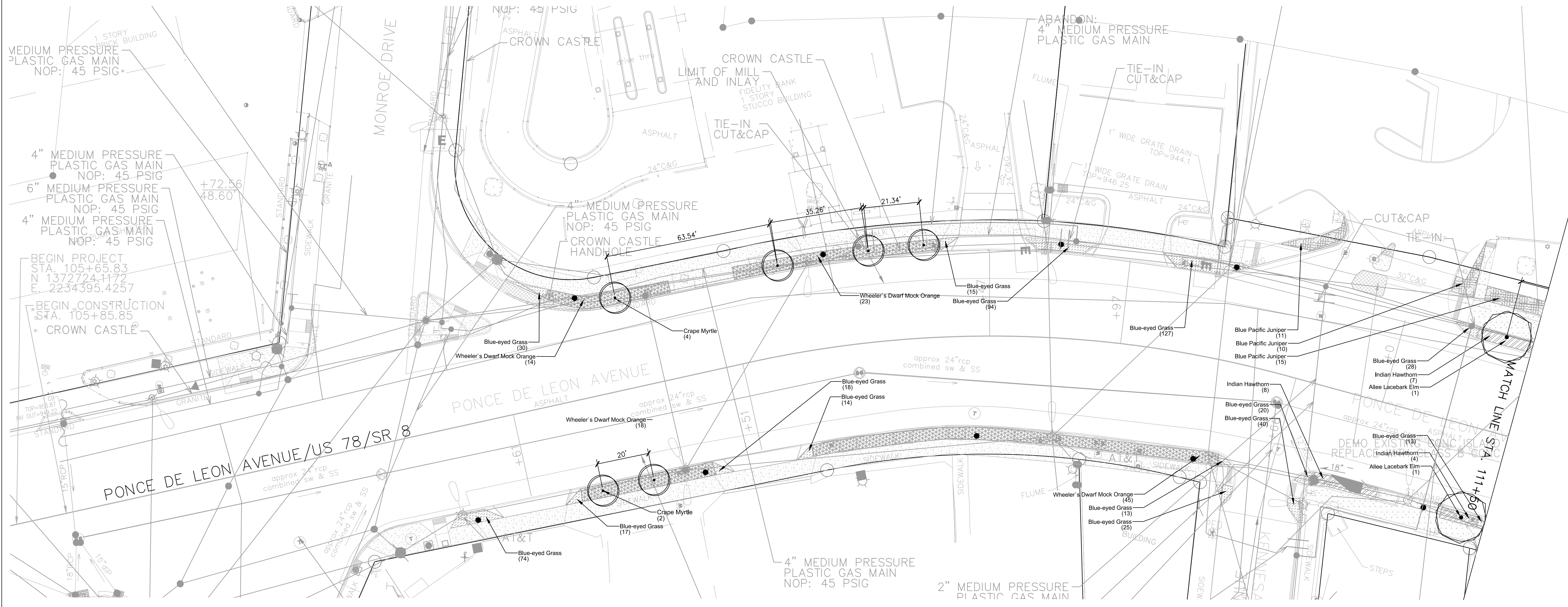
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REVISION DATES

ATLANTA BELTLINE
 OFFICE:
ITS PLANS

DRAWING No.
28-002

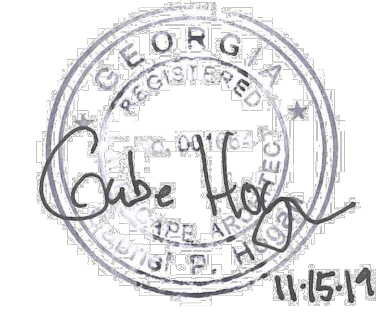


PLANT SCHEDULE 29-001

TREES	QTY	BOTANICAL NAME	COMMON NAME	CAL	CONTAINER	HEIGHT	REMARKS
	6	LAGERSTROEMIA X MIAMI	CRAPE MYRTLE	8 & 8	4" CAL	12-14' HT	STANDARD
	2	ULMUS PARVIFOLIA 'EMER II'	ALLEE LACEBARK ELM	8 & 8	4" CAL	16-18' HT	7' MIN. CLEAR

SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
	36	JUNIPERUS CONFERTA 'BLUE PACIFIC'	BLUE PACIFIC JUNIPER	3 GAL		36" o.c.	
	100	PITOSPORUM TOBIRA 'WHEELERS DWARF'	WHEELER'S DWARF MOCK ORANGE	3 GAL		48" o.c.	
	19	RHAPHIOLEPIS INDICA 'GEORGIA PETITE'	INDIAN HAWTHORN	3 GAL	1'-2' HT.	48" o.c.	

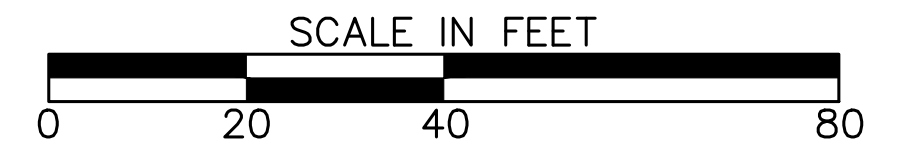
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	SPREAD	SPACING	REMARKS
	528	SISYRINCHIUM ANGSTIFOLIUM	BLUE-EYED GRASS	4" POT			12" o.c.	



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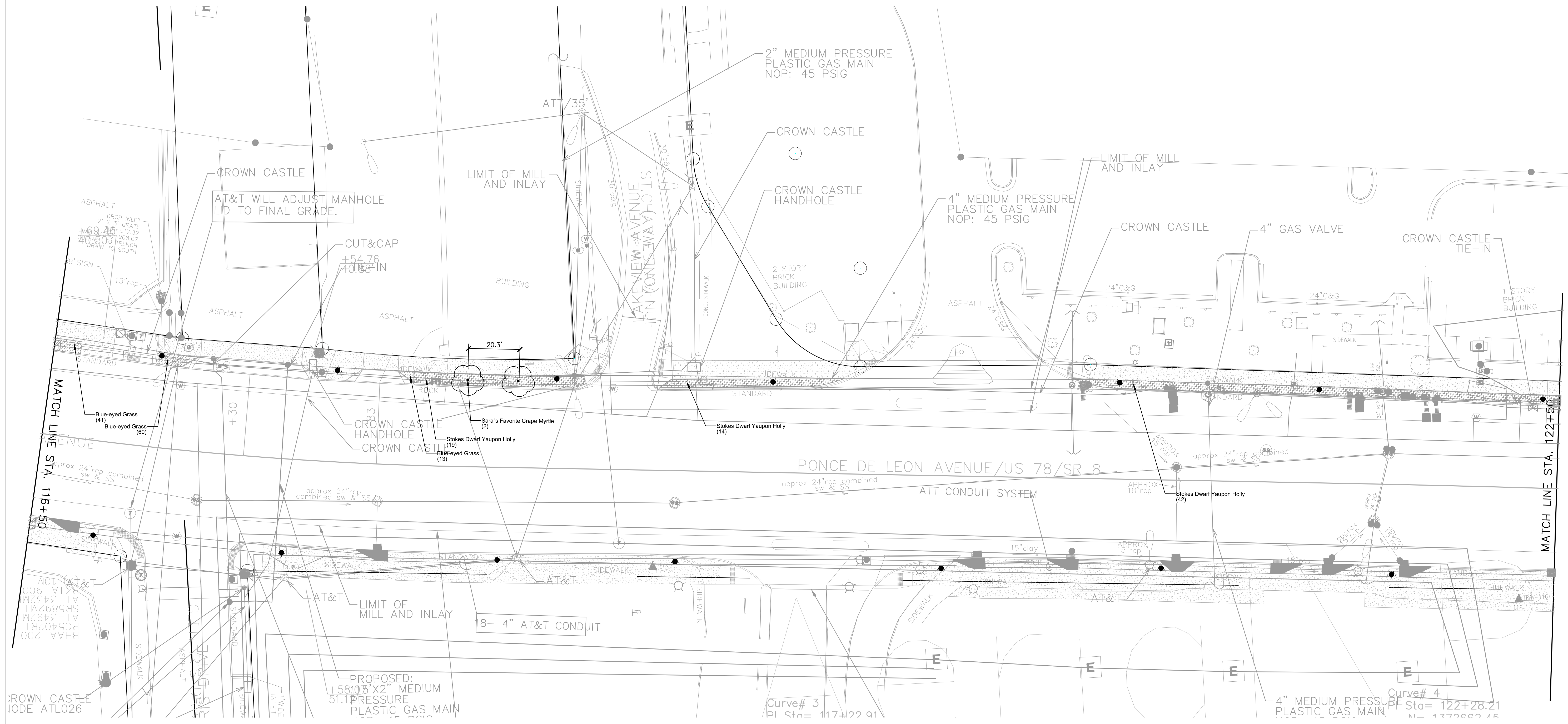


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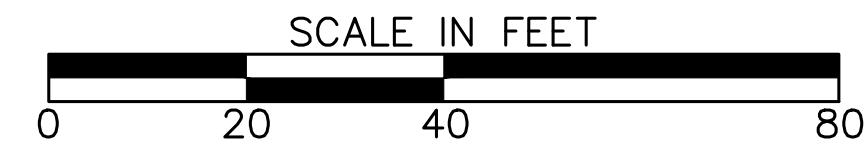
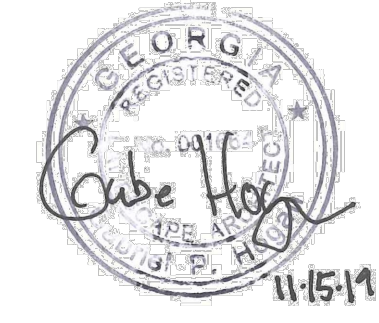
REVISION DATES

ATLANTA BELTLINE INC.
 LANDSCAPE PLAN
 PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
 DRAWING No. 29-001



PLANT SCHEDULE 29-003

TREES	QTY	BOTANICAL NAME	COMMON NAME	CAL	CONTAINER	HEIGHT	REMARKS	
	2	LAGERSTROEMIA FAURIEI 'SARA'S FAVORITE'	SARA'S FAVORITE CRAPE MYRTLE	B & B	4" CAL	12-14' HT	STANDARD, 7' IV	
SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS	
	75	ILEX VOMITORIA 'STOKES DWARF'	STOKES DWARF YAUPON HOLLY	3 GAL		48" o.c.		
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	SPREAD	SPACING	REMARKS
	114	SIBYRINCHUM ANGUSTIFOLIUM	BLUE-EYED GRASS	4" POT			12" o.c.	



REVISION DATES

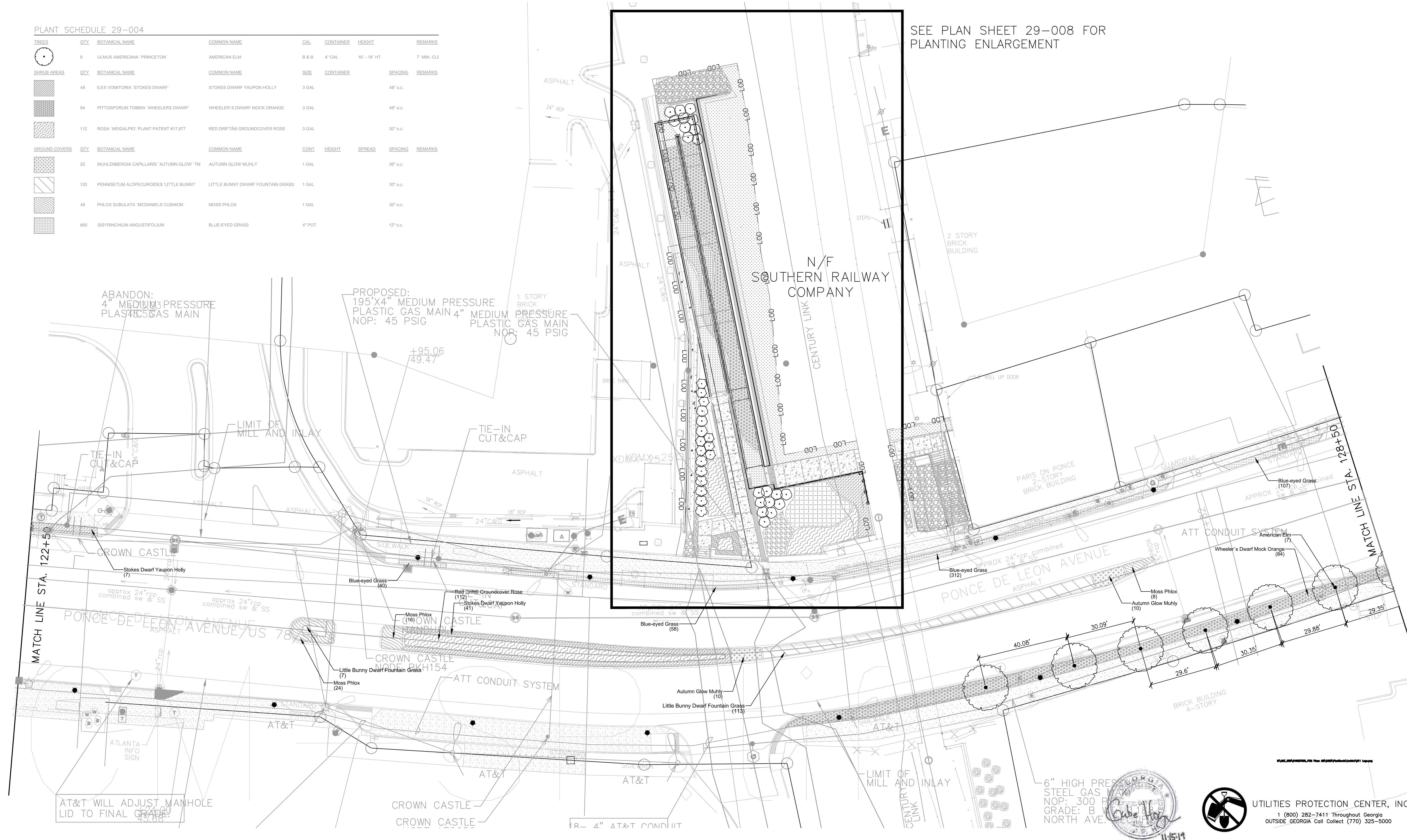
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LANDSCAPE PLAN
PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
DRAWING No. 29-003

PLANT SCHEDULE 29-004

TREES	QTY	BOTANICAL NAME	COMMON NAME	GAL	CONTAINER	HEIGHT	REMARKS
	6	ULMUS AMERICANA 'PRINCETON'	AMERICAN ELM	8 & 8	4" CAL	16' - 18' HT	7' MIN. CLR

SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
	48	ILEX VOMITORIA 'STOKES DWARF'	STOKES DWARF YAUPON HOLLY	3 GAL		48" o.c.	
	84	PHYTOSPORUM TOBIRA 'WHEELERS DWARF'	WHEELER'S DWARF MOCK ORANGE	3 GAL		48" o.c.	
	112	ROSA 'MEIGALPIO' PLANT PATENT #17,877	RED DRIFT® GROUNDCOVER ROSE	3 GAL		30" o.c.	

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	SPREAD	SPACING	REMARKS
	20	MUHLENBERGIA CAPILLARIS 'AUTUMN GLOW'™	AUTUMN GLOW MUHLY	1 GAL		36" o.c.		
	120	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	LITTLE BUNNY DWARF FOUNTAIN GRASS	1 GAL		30" o.c.		
	48	PHLOX SUBULATA 'MCDANIELS CUSHION'	MOSS PHLOX	1 GAL		30" o.c.		
	660	SISYRINCHIUM ANGUSTIFOLIUM	BLUE-EYED GRASS	4" POT		12" o.c.		



SEE PLAN SHEET 29-008 FOR PLANTING ENLARGEMENT

AT&T WILL ADJUST MANHOLE LID TO FINAL GRADE 45.88'



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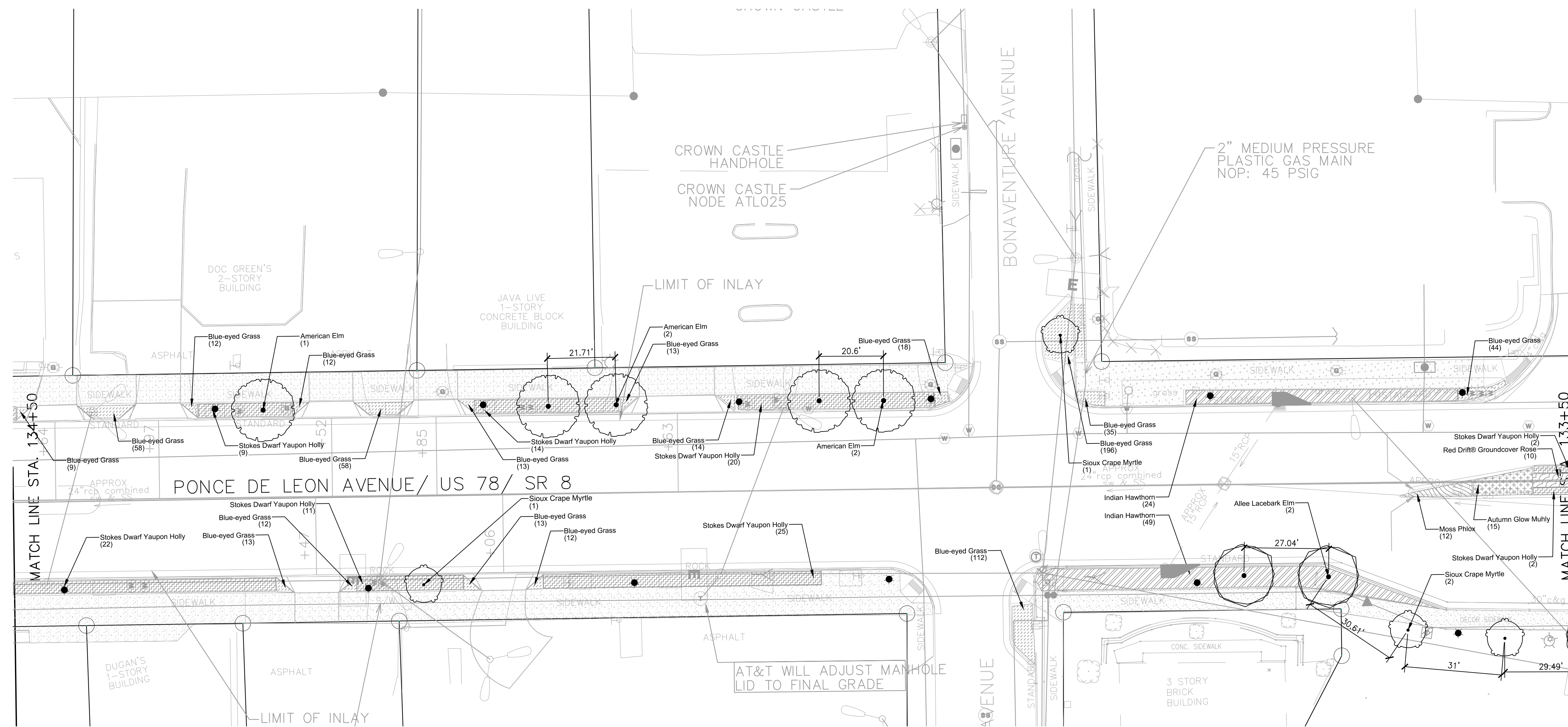


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LANDSCAPE PLAN
PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
DRAWING No. 29-004

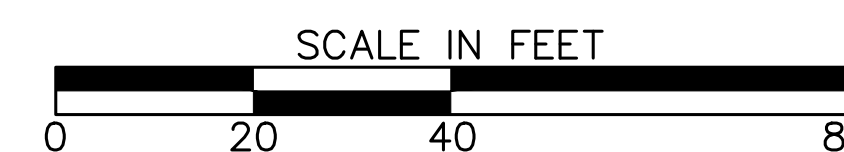


PLANT SCHEDULE 29-006

TREES	QTY	BOTANICAL NAME	COMMON NAME	GAL	CONTAINER	HEIGHT	REMARKS
	4	LAGERSTROEMIA INDICA 'SILOX'	SILOX CRAPE MYRTLE	B & B	4" CAL	12-14 HT	STANDARD, 7
	5	ULMUS AMERICANA 'PRINCETON'	AMERICAN ELM	B & B	4" CAL	16' - 18' HT	7' MIN. CLEAR
	2	ULMUS PARVIFOLIA 'EMER II'	ALLEE LACEBARK ELM	B & B	4" CAL	16'-18' HT	7' MIN. CLEAR
SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
	105	ILEX VOMITORIA 'STOKES DWARF'	STOKES DWARF YAUPON HOLLY	3 GAL		48" o.c.	
	73	RHAPHOLEPIS INDICA 'GEORGIA PETITE'	INDIAN HAWTHORN	3 GAL	1'-2' HT.	48" o.c.	
	10	ROSA 'MEIGALPIO' PLANT PATENT #17,877	RED DRIFT® GROUNDCOVER ROSE	3 GAL		30" o.c.	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	SPREAD	REMARKS
	15	MUHLLENBERGIA CAPILLARIS 'AUTUMN GLOW' TM	AUTUMN GLOW MUHLY	1 GAL		36" o.c.	
	12	PHLOX SUBULATA 'MCDANIELS CUSHION'	MOSS PHLOX	1 GAL		30" o.c.	
	644	SISYRINCHIUM ANGSTUFOLIUM	BLUE-EYED GRASS	4" POT		12" o.c.	



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REVISION DATES

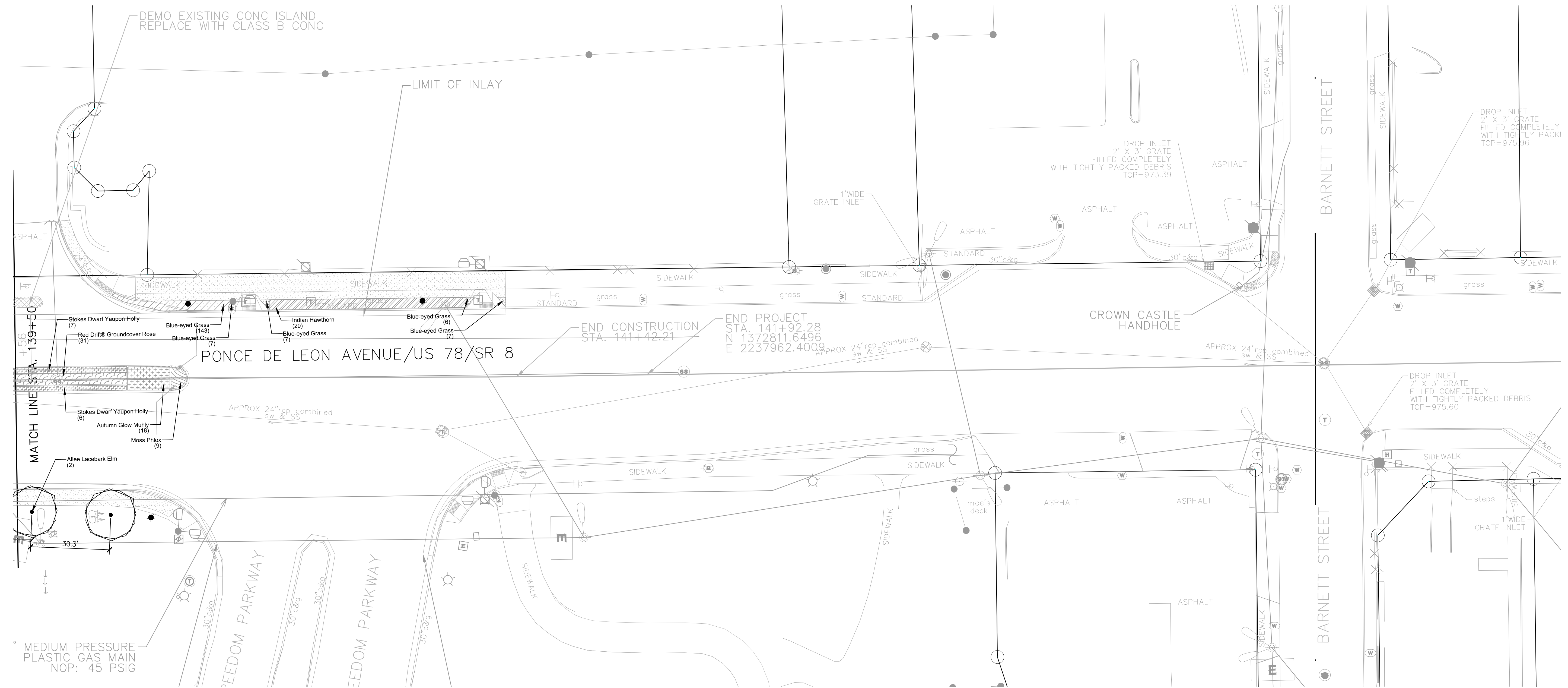
NO.	DATE	DESCRIPTION

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LANDSCAPE PLAN

PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION

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29-006



PLANT SCHEDULE 29-007

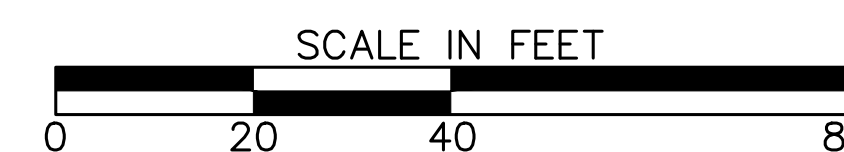
TREES	QTY	BOTANICAL NAME	COMMON NAME	CAL	CONTAINER	HEIGHT	REMARKS	
	2	ULMUS PARVIFOLIA 'EMER II'	ALLEE LACEBARK ELM	8 & 8	4" CAL	16'-18" HT	7' MIN. CLEAR	
SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS	
	17	ILEX VOMITORIA 'STOKES DWARF'	STOKES DWARF YAUPON HOLLY	3 GAL			48" o.c.	
	20	RHAPHIOLEPIS INDICA 'GEORGIA PETITE'	INDIAN HAWTHORN	3 GAL	1'-2" HT.		48" o.c.	
	41	ROSA 'MEIGALPIO' PLANT PATENT #17,877	RED DRIFT® GROUND COVER ROSE	3 GAL			30" o.c.	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	SPREAD	SPACING	REMARKS
	18	MUHLENBERGIA CAPILLARIS 'AUTUMN GLOW™'	AUTUMN GLOW MUHLY	1 GAL				36" o.c.
	9	PHLOX SUBULATA 'MCDANIELS CUSHION'	MOSS PHLOX	1 GAL				30" o.c.
	143	SISYRINCHUM ANGSTIFOLIUM	BLUE-EYED GRASS	4" POT				12" o.c.
	27	SISYRINCHUM ANGSTIFOLIUM	BLUE-EYED GRASS	4" POT				12" o.c.



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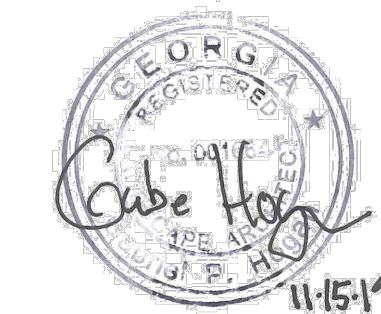
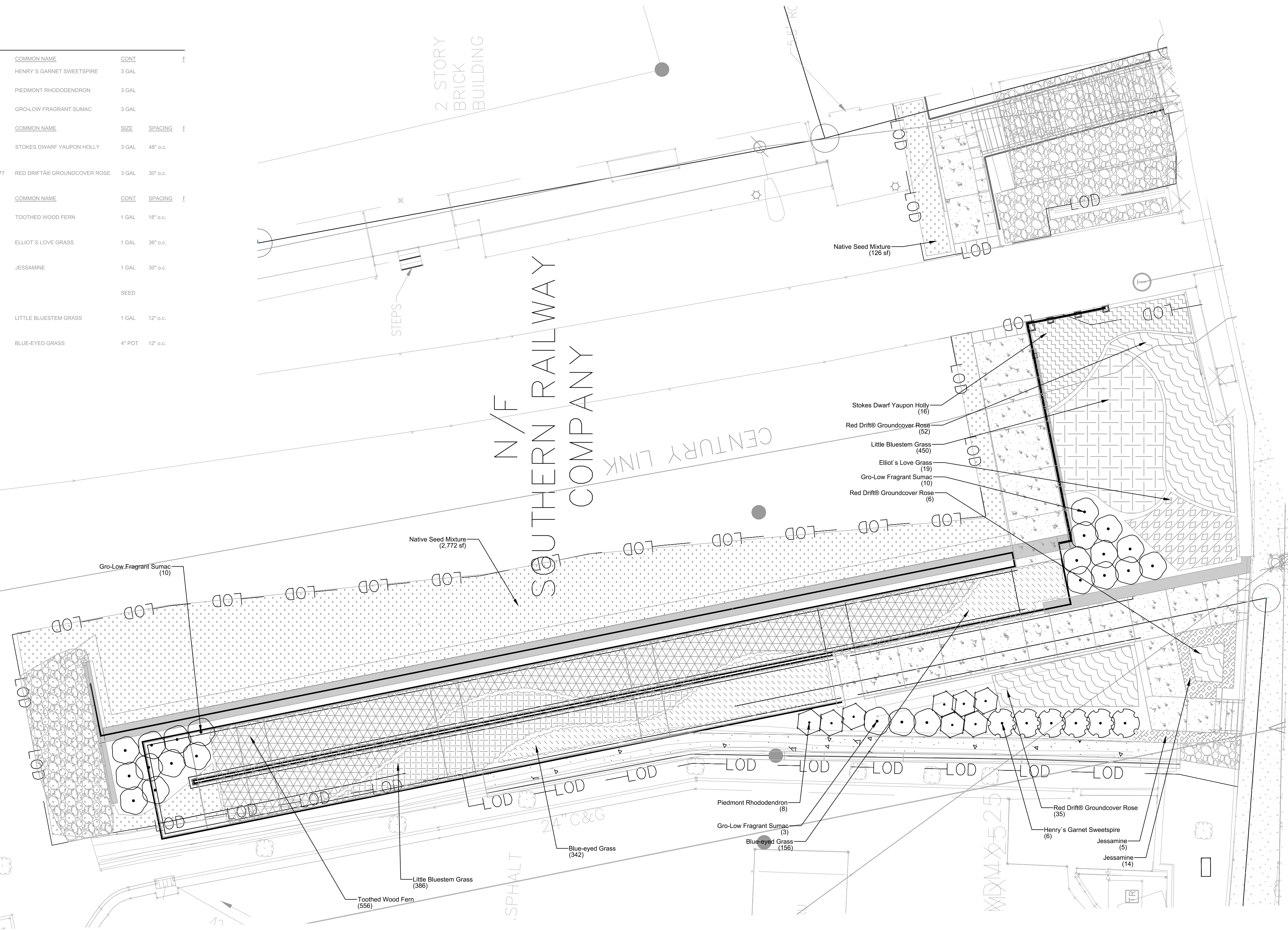
LANDSCAPE PLAN

PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION

DRAWING No.
 29-007

PLANT SCHEDULE 29-008

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	E	
	6	ITEA VIRGINICA 'HENRY'S GARNET'	HENRY'S GARNET SWEETSPIRE	3 GAL		
	8	RHODODENDRON MINUS	PIEDMONT RHODODENDRON	3 GAL		
	23	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	3 GAL		
SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	E
	16	ILEX VOMITORIA 'STOKES DWARF'	STOKES DWARF YAUPOH HOLLY	3 GAL	48" o.c.	
	93	ROSA 'MEIGALPIO' PLANT PATENT #17,877	RED DRIFT® GROUNDCOVER ROSE	3 GAL	30" o.c.	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	E
	556	DRYOPTERIS CARTHUSIANA	TOOTHED WOOD FERN	1 GAL	18" o.c.	
	19	ERAGROSTIS ELLIOTTII 'WIND DANCER'	ELLIOT'S LOVE GRASS	1 GAL	36" o.c.	
	19	GELESEMUM SEMPERVIRENS	JESSAMINE	1 GAL	30" o.c.	
	2,898 SF	NATIVE SEED MIXTURE		SEED		
	836	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM GRASS	1 GAL	12" o.c.	
	498	SISYRINCHUM ANGUSTIFOLIUM	BLUE-EYED GRASS	4" POT	12" o.c.	



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REVISION DATES

NO.	DATE	DESCRIPTION

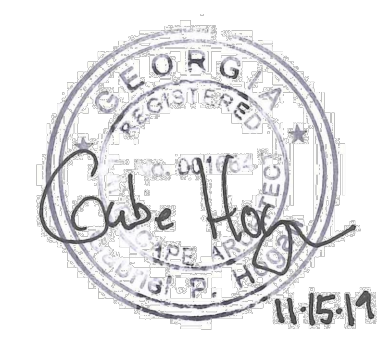
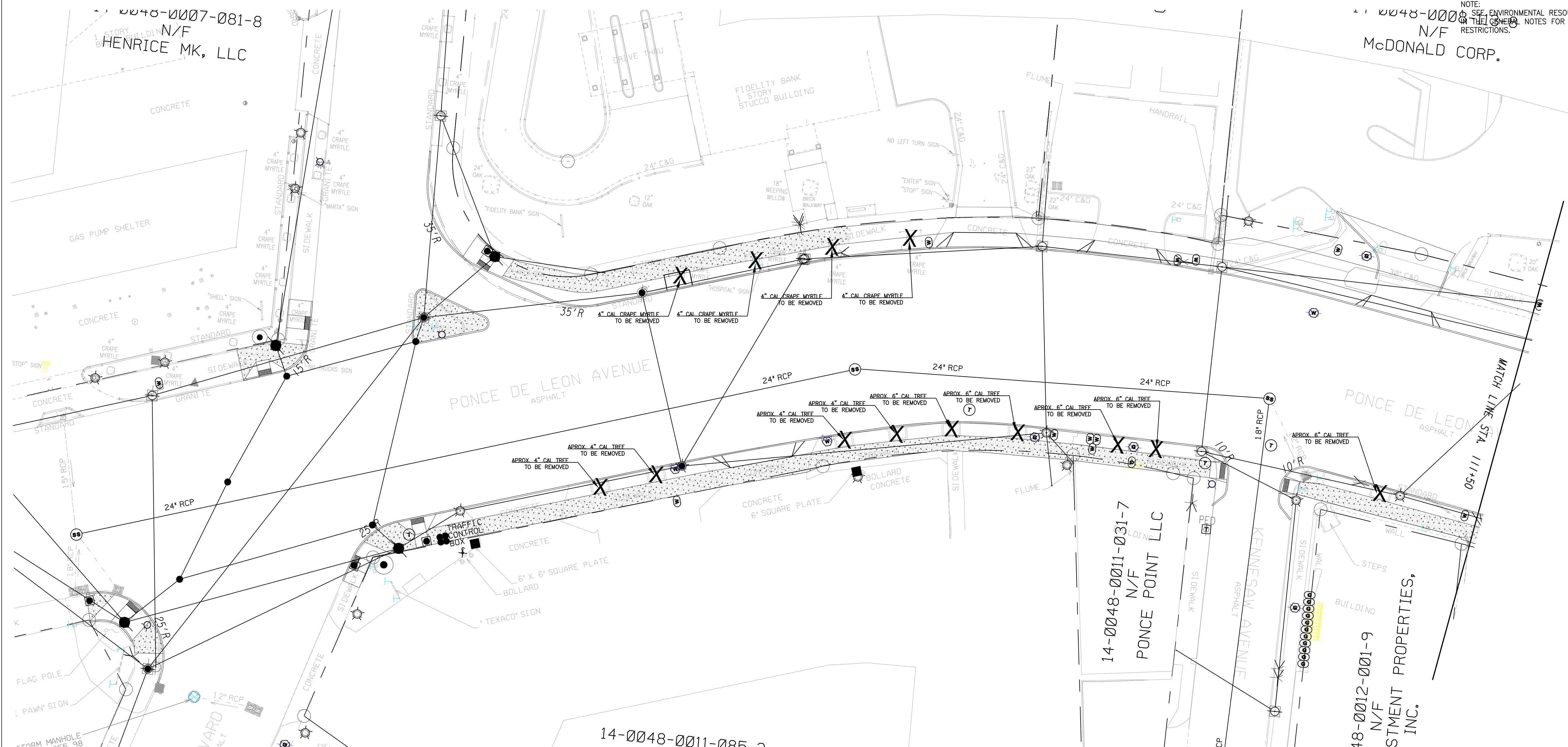
ATLANTA BELTLINE INC.

LANDSCAPE PLAN

PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND
BELTLINE CONNECTION

DRAWING No.
29-008

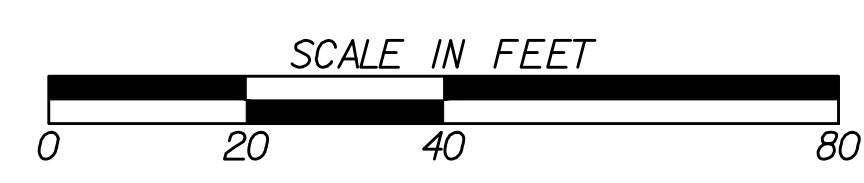
NOTE:
SEE ENVIRONMENTAL RESOURCES IMPACT TABLE
OR THE NOTES FOR CONSTRUCTION
RESTRICTIONS.



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ATLANTA BELTLINE INC.
TREE PROTECTION PLAN
PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND
BELTLINE CONNECTION
DRAWING No.
29-010

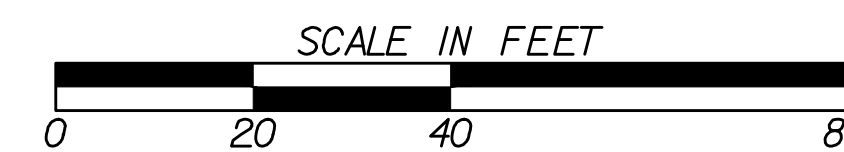
NOTE:
1. SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN THE GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.



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REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE INC.

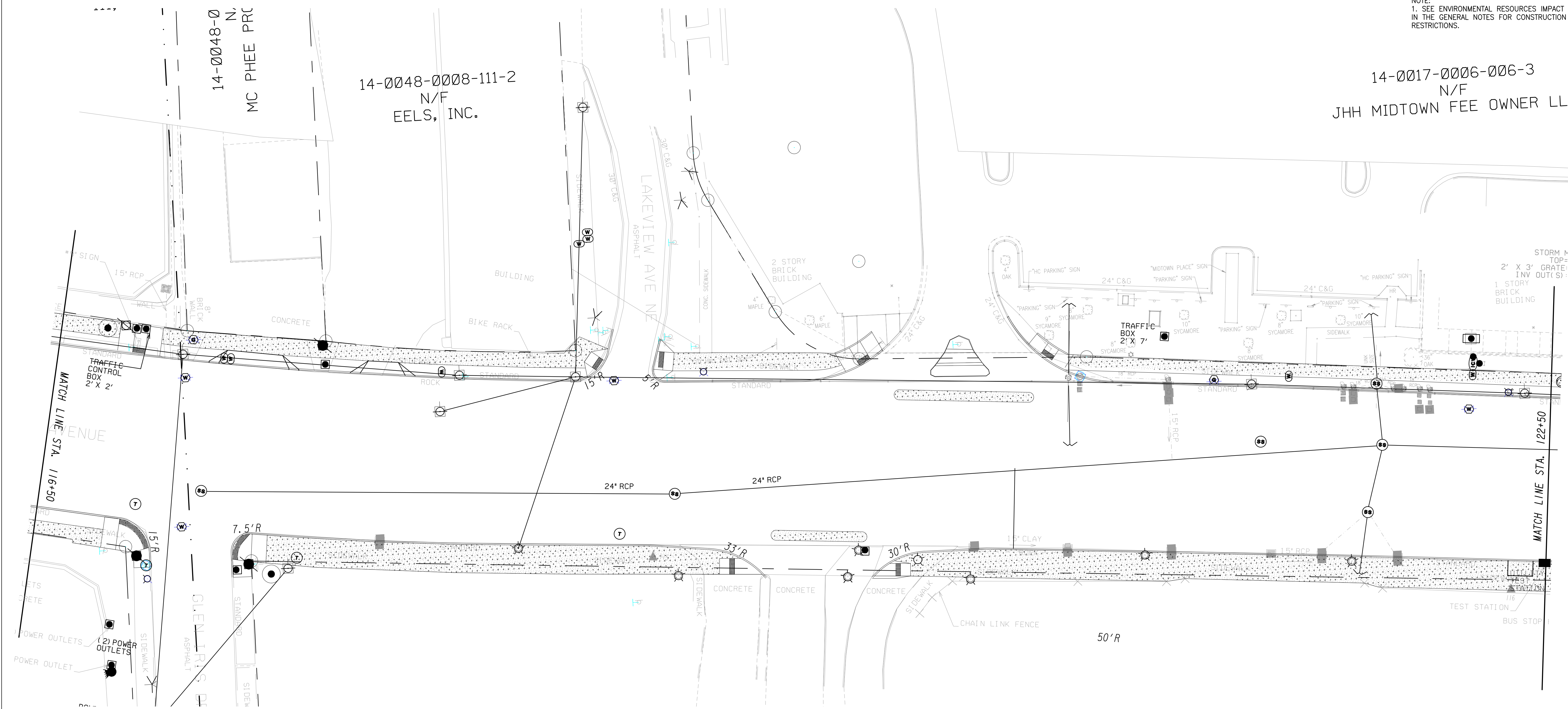
TREE PROTECTION PLAN

PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION

DRAWING No.
29-011

NOTE:
1. SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN THE GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

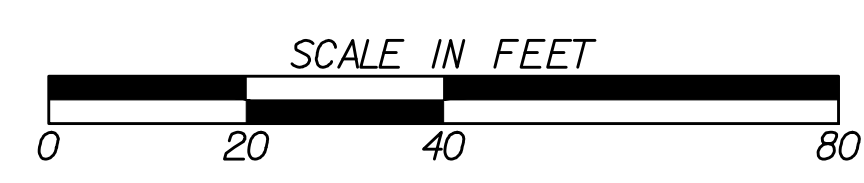
14-0017-0006-006-3
N/F
JHH MIDTOWN FEE OWNER LLC



UTILITIES PROTECTION CENTER, INC.
1 (800) 282-7411 Throughout Georgia
OUTSIDE GEORGIA Call Collect (770) 325-5000



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Atlanta, Georgia 30308



REVISION DATES	

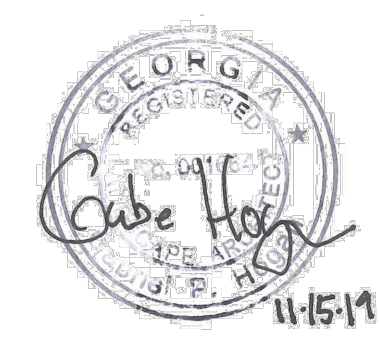
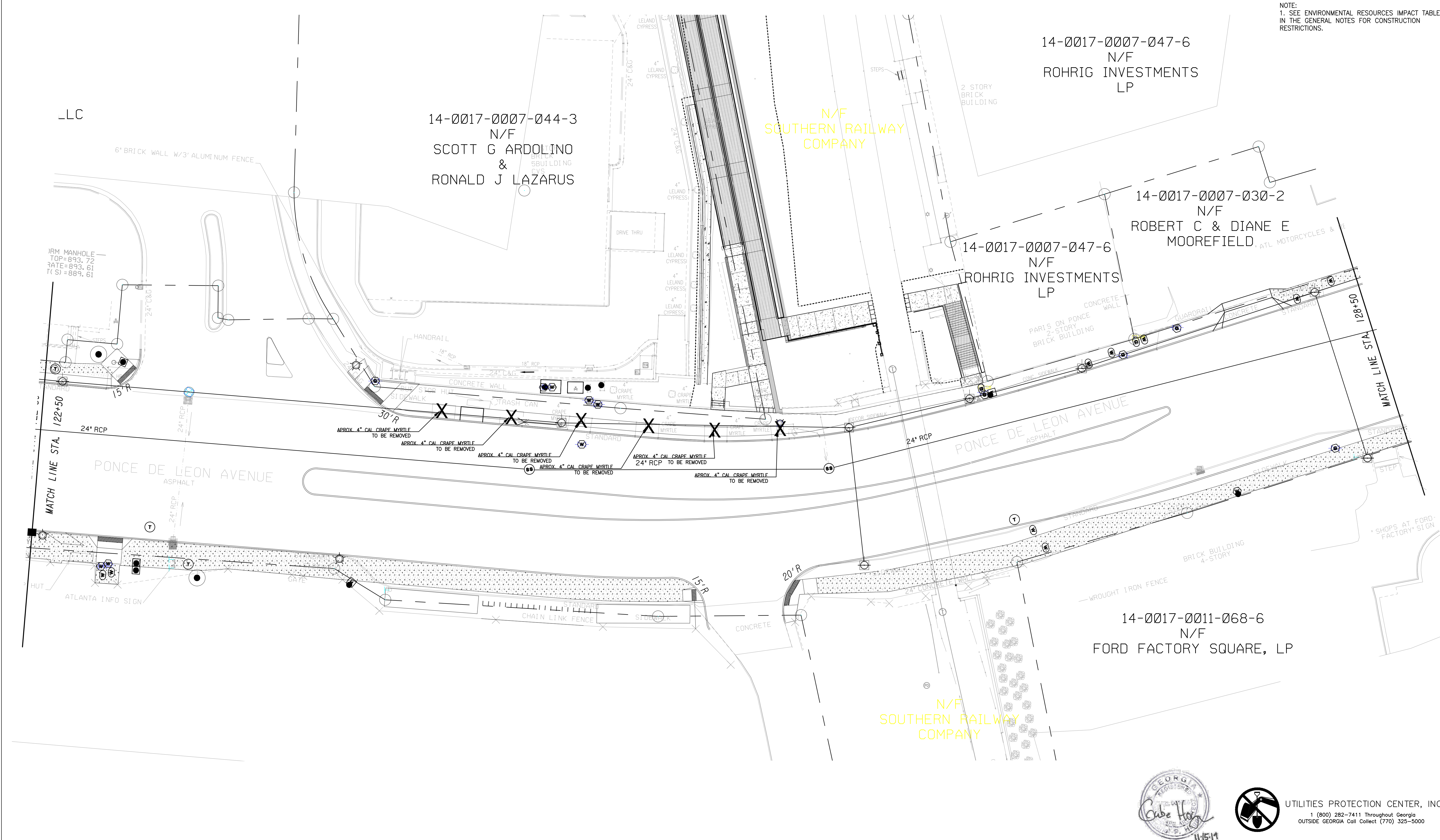
ATLANTA BELTLINE INC.

TREE PROTECTION PLAN

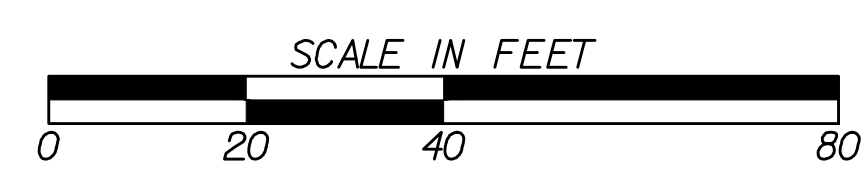
PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION

DRAWING No.
29-012

NOTE:
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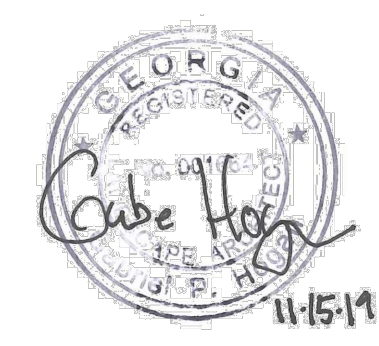
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REVISION	DATE	DESCRIPTION

ATLANTA BELTLINE INC.
TREE PROTECTION PLAN
PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
DRAWING No. **29-013**

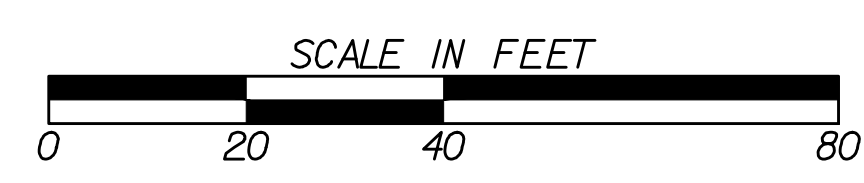
NOTE:
1. SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN THE GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.



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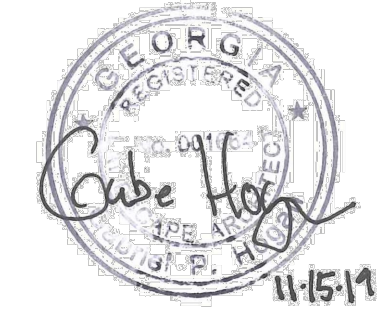
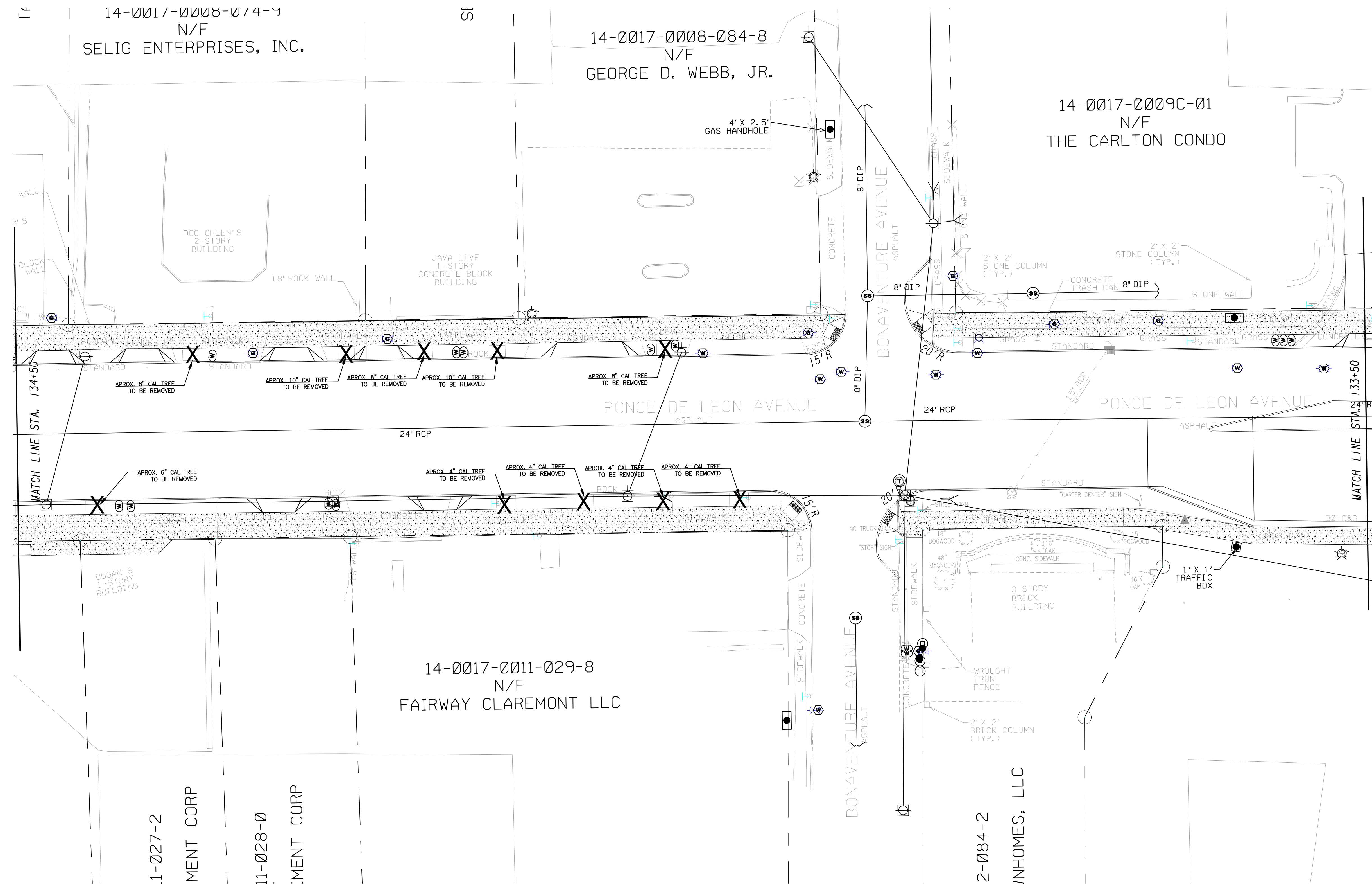
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REVISION DATES	

ATLANTA BELTLINE INC.
TREE PROTECTION PLAN
PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
DRAWING No. **29-014**

NOTE:
1. SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN THE GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

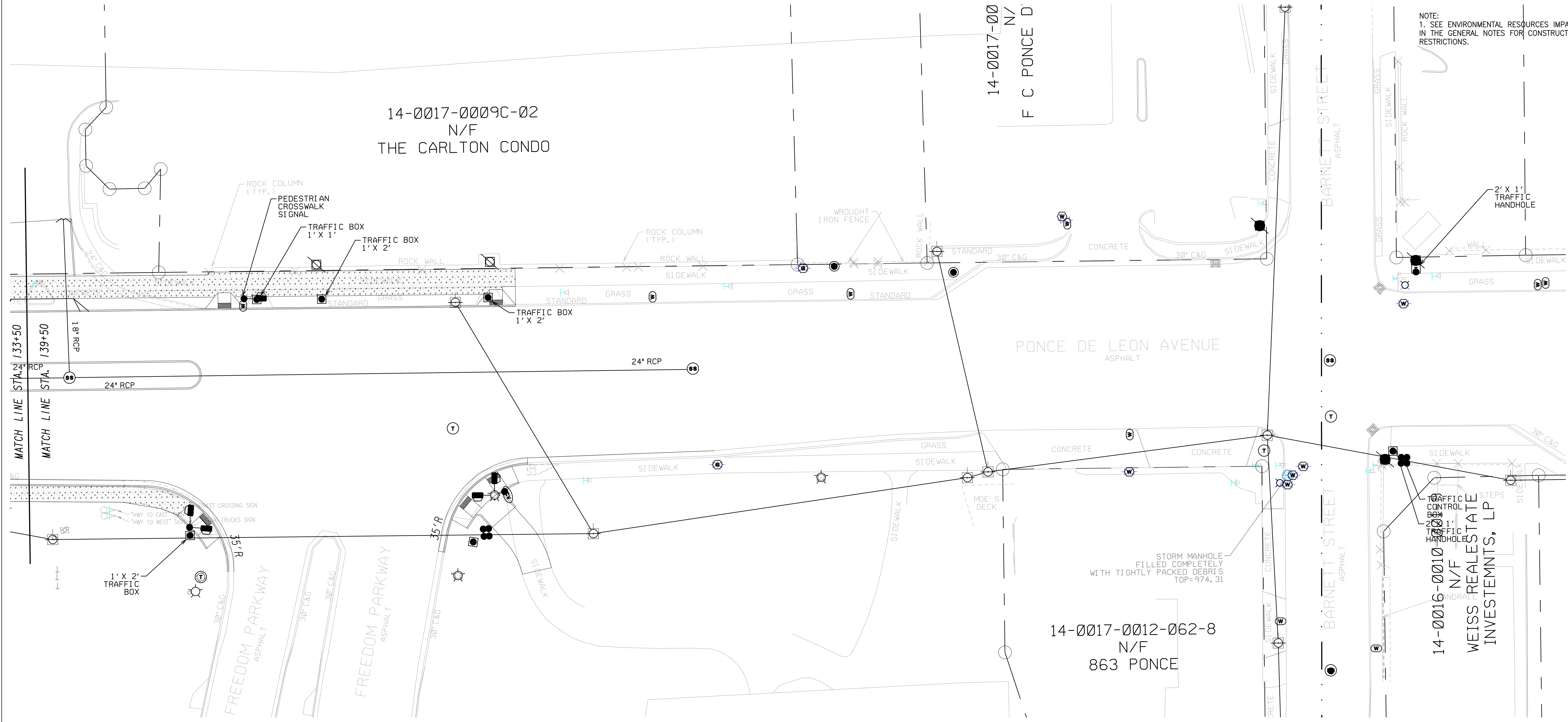


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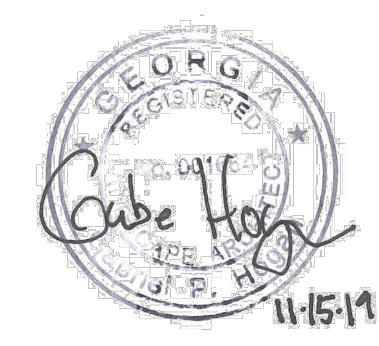
REVISION DATES	

ATLANTA BELTLINE INC.
TREE PROTECTION PLAN
PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
DRAWING No. **29-015**



NOTE:
1. SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN THE GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

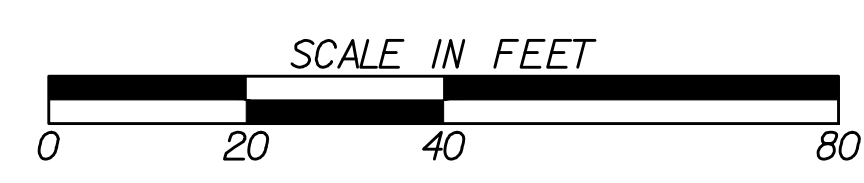
14-0016-0010
N/F
WEISS REALESTATE INVESTMENTS, LP



UTILITIES PROTECTION CENTER, INC.
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OUTSIDE GEORGIA Call Collect (770) 325-5000

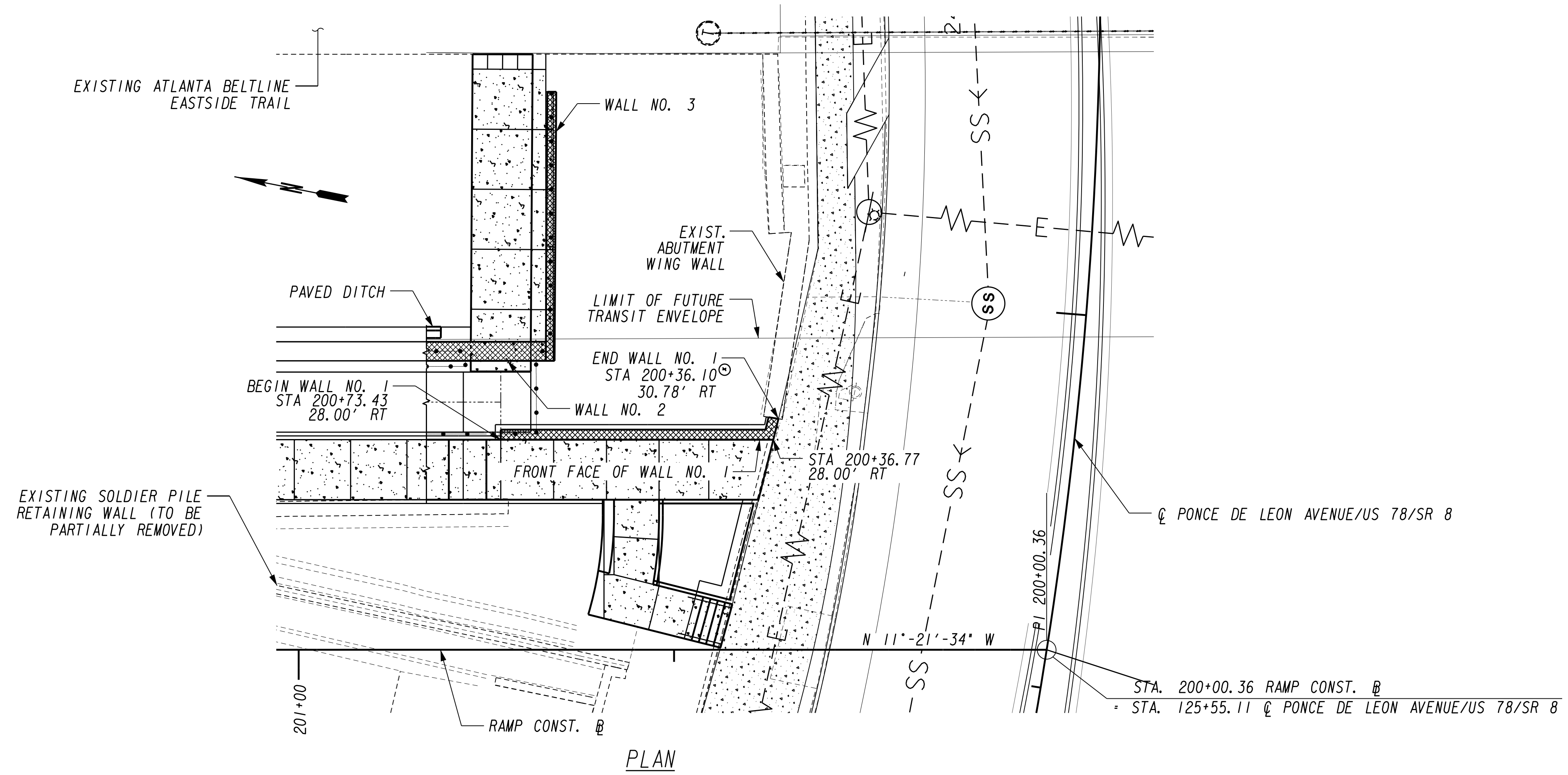


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REVISION DATES	

ATLANTA BELTLINE INC.
TREE PROTECTION PLAN
PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
DRAWING No. **29-016**

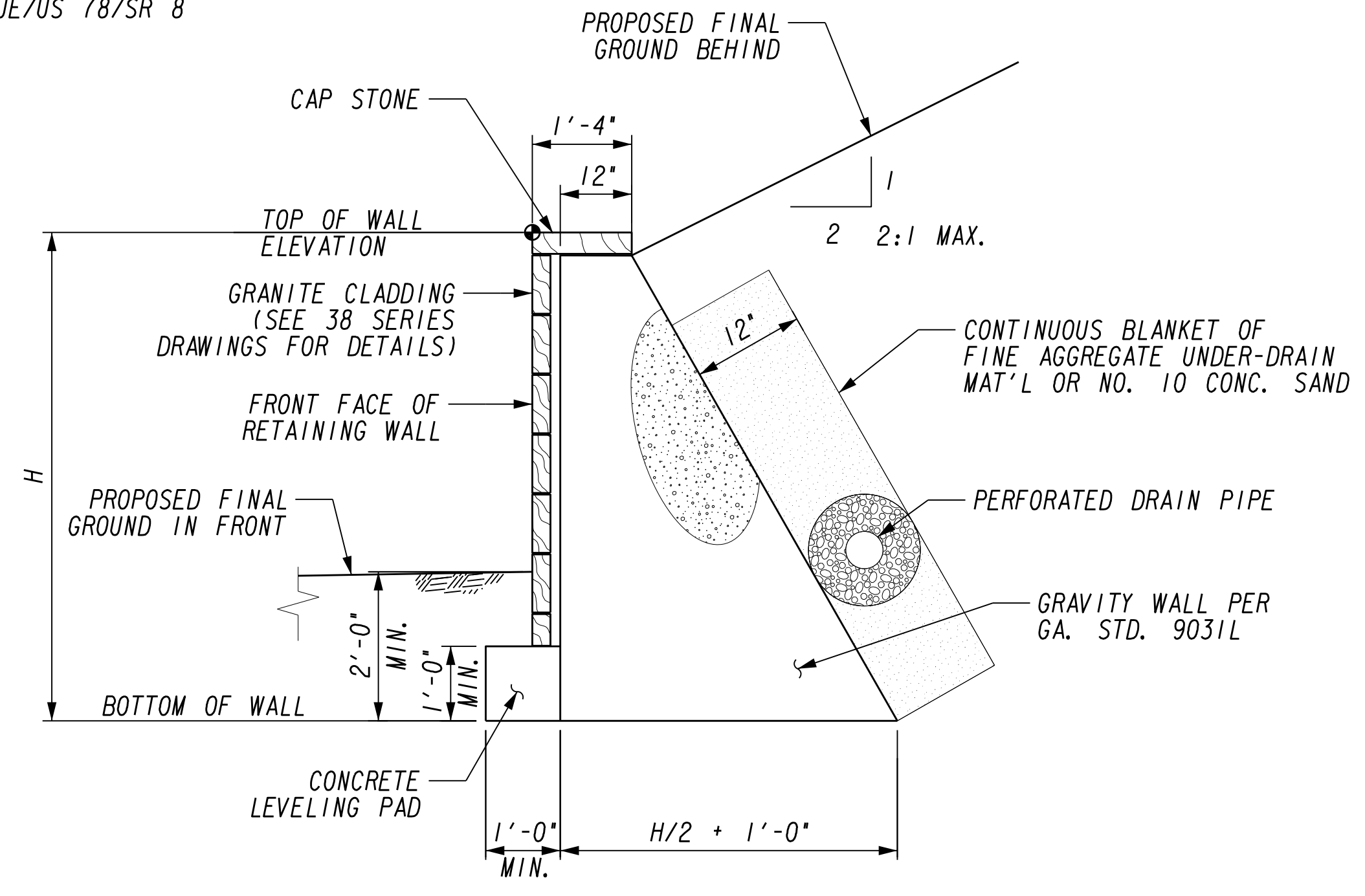
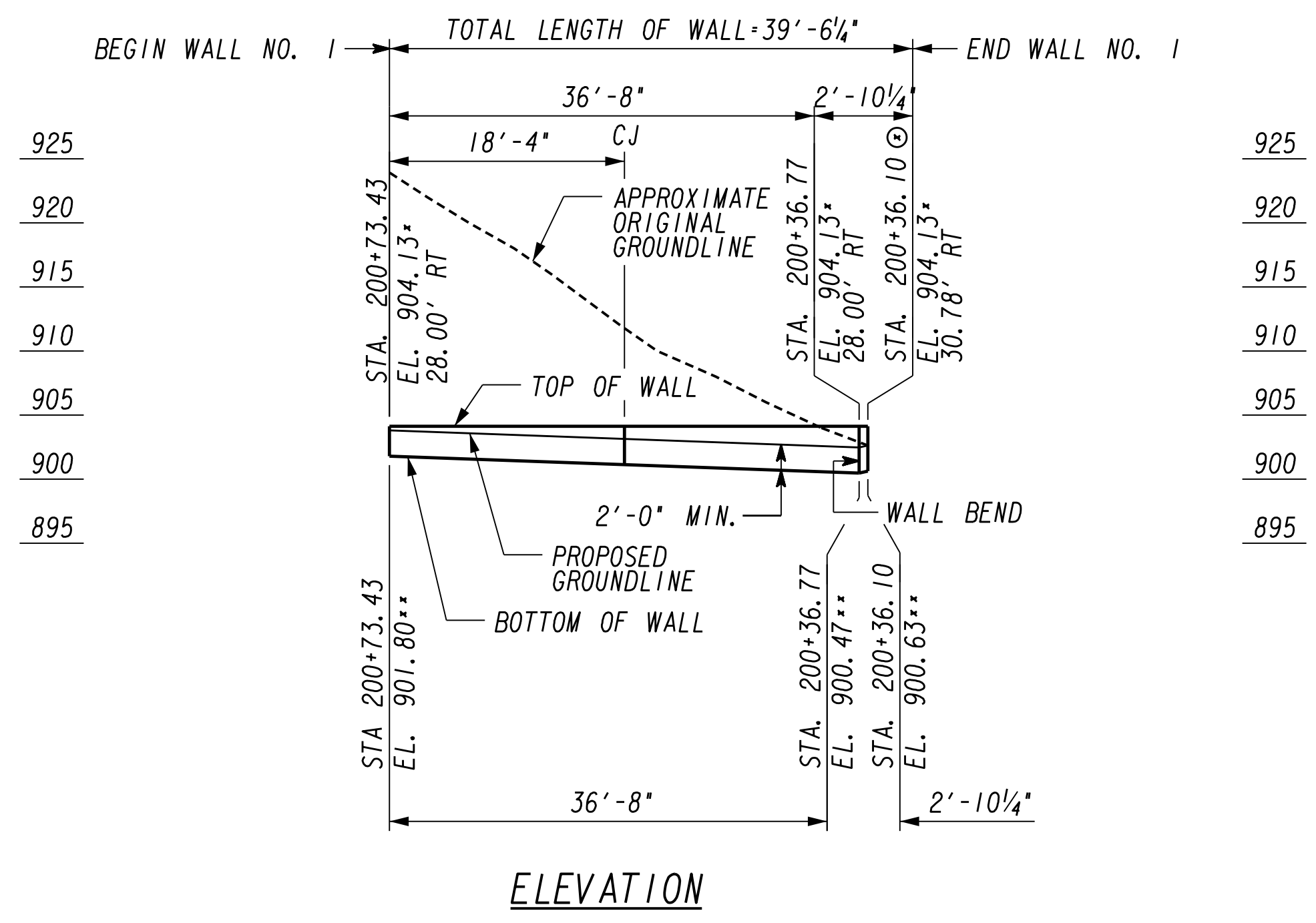


SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3201	10	CY	CLASS B CONCRETE, RETAINING WALL
999-9000	80	SF	GRANITE FACING

NOTES:

1. STATIONS ARE ALONG RAMP CONST. @. OFFSETS GIVEN TO FRONT FACE OF WALL.
2. * ELEVATIONS SHOWN ARE AT TOP OF GRAVITY WALL - TOP OF CAPSTONE.
3. ** ELEVATIONS SHOWN ARE MAXIMUM BOTTOM OF GRAVITY WALL.
4. ⊙ TIE END WALL NO. 1 TO EXISTING ABUTMENT WING WALL.
5. WALL LENGTHS INCLUDE GRANITE VENEER.
6. CJ INDICATES CONTRACTION JOINT IN VENEER.
7. JOINT SPACINGS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE COORDINATED WITH STONE VENEER JOINT SPACING BY THE CONTRACTOR.
8. OUTFALL PERFORATED DRAIN PIPE BY CONNECTING TO EXISTING ADJACENT CATCH BASIN.



WALL 1 TYPICAL SECTION
(GRAVITY)

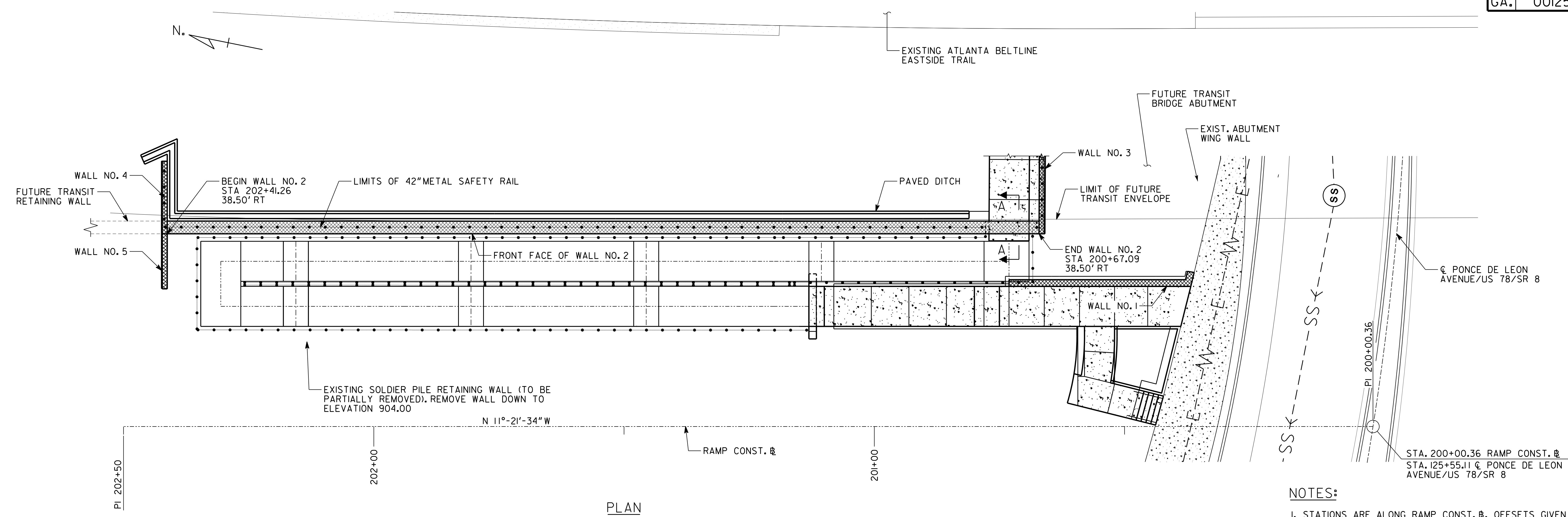


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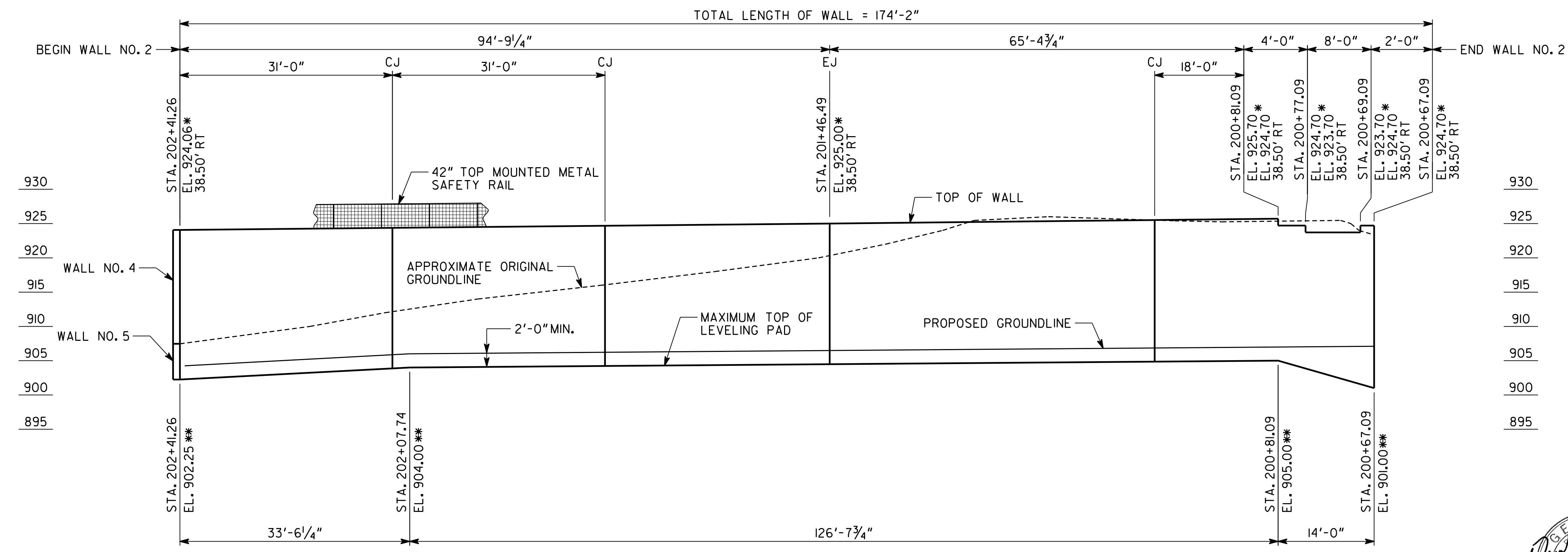


REVISION	DATE	DESCRIPTION

ATLANTA BELTLINE
 OFFICE:
RETAINING WALL ENVELOPES
 WALL NO. 1
 DRAWING No. 31-0001



PLAN



ELEVATION
LOOKING AT FRONT FACE OF WALL

- NOTES:**
1. STATIONS ARE ALONG RAMP CONST. \mathbb{B} . OFFSETS GIVEN TO FRONT FACE OF WALL.
 2. * ELEVATIONS SHOWN ARE AT TOP OF WALL = TOP OF CAPSTONE.
 3. ** ELEVATIONS SHOWN ARE THE MAXIMUM ELEVATION AT THE TOP OF LEVELING PAD.
 4. FOR STANDARD NOTES AND DESIGN DATA, SEE DRAWING NO. 32-0004.
 5. FOR SECTIONS AND DETAILS, SEE DRAWING NOS. 32-0005 AND 32-0006.
 6. WALL LENGTHS INCLUDE GRANITE VENEER.
 7. GRANITE VENEER NOT SHOWN FOR CLARITY.
 8. CJ INDICATES CONTRACTION JOINT IN VENEER.
 9. EJ INDICATES EXPANSION JOINT IN WALL AND VENEER.
 10. JOINT SPACINGS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE COORDINATED WITH STONE VENEER JOINT SPACING BY THE CONTRACTOR.

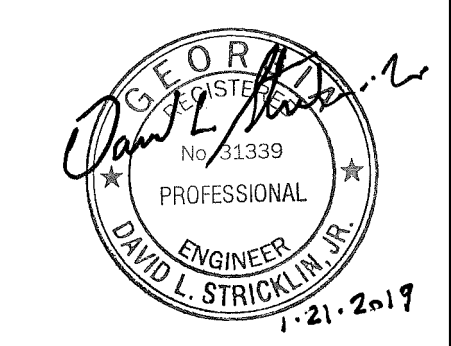
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ATLANTA BELTLINE

WALL PLAN AND ELEVATION - WALL NO. 2
PONCE DE LEON COMPLETE STREET
RETROFIT AND BELTLINE CONNECTION
FULTON COUNTY 0012586

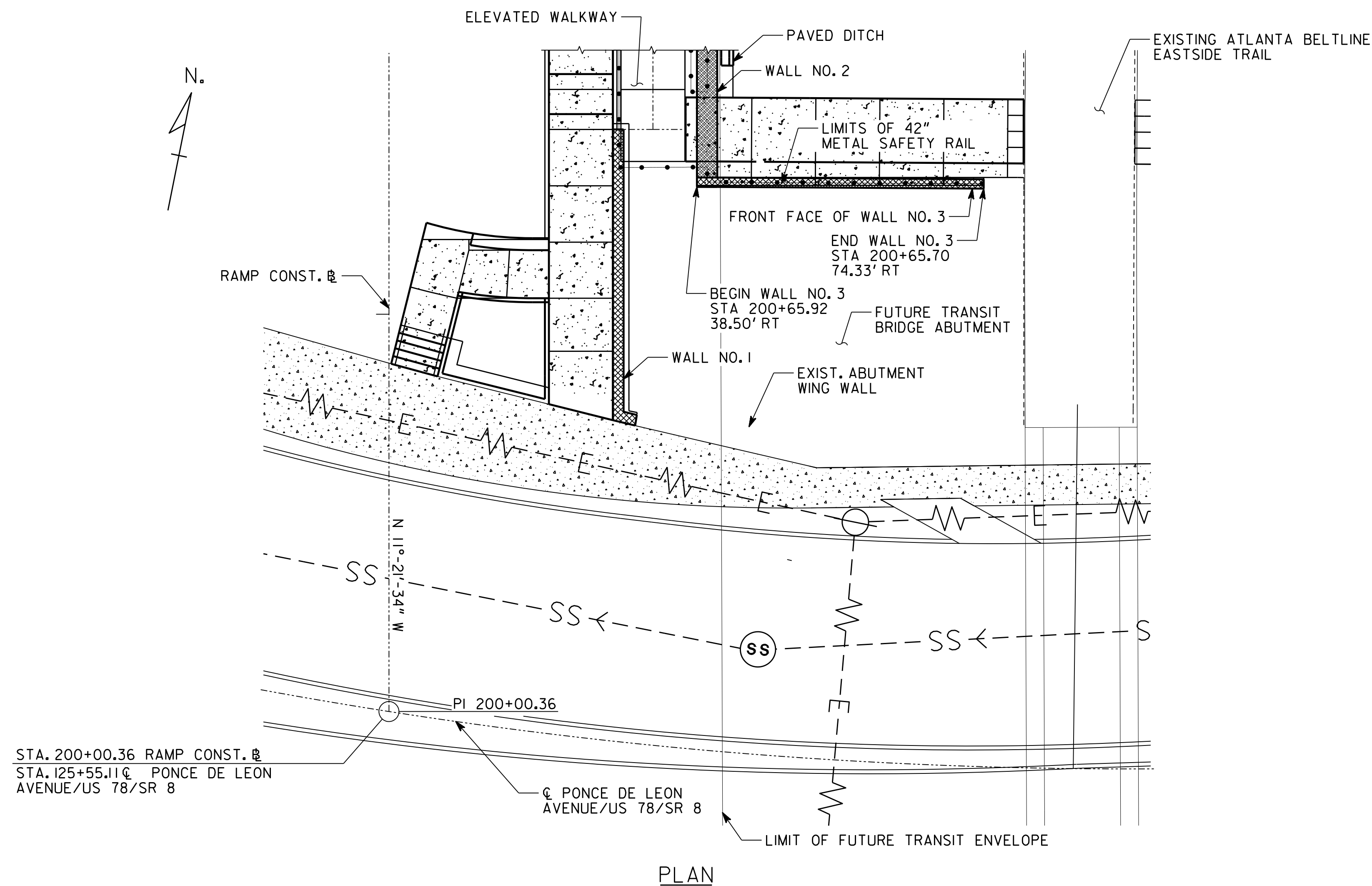
SCALE: 1" = 10'-0" JANUARY 2019

DESIGNED GAG	CHECKED DLS	REVIEWED SKG
DRAWN GAG	DESIGN GROUP	APPROVED WMD



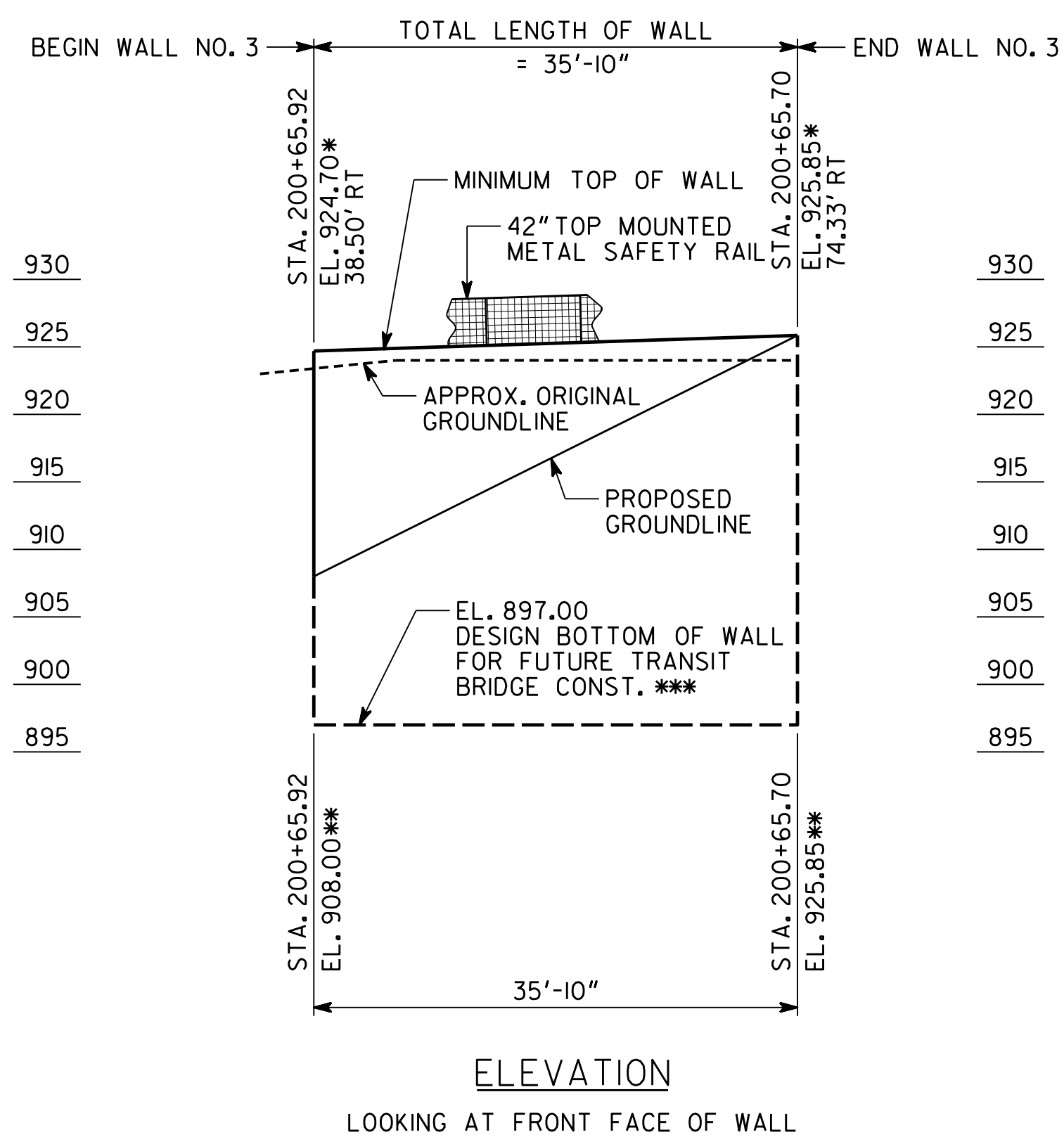
DRAWING NO. 32 - 0001
WALL SHEET 1 OF 6

REVISIONS	DATE



NOTES:

1. STATIONS ARE ALONG RAMP CONST. \mathbb{E} . STATIONS AND OFFSETS GIVEN TO FRONT FACE OF WALL.
2. * MINIMUM TOP OF WALL ELEVATIONS SHOWN ARE AT PROPOSED FINISHED GRADE ELEVATION AT BACK FACE OF WALL.
3. ** ELEVATIONS SHOWN ARE AT PROPOSED FINISHED GRADE ELEVATION AT FRONT FACE OF WALL.
4. *** WALL NO. 3 SHALL BE DESIGNED FOR A FUTURE BOTTOM OF WALL ELEVATION OF 897.00 TO ACCOMMODATE CONSTRUCTION OF A FUTURE TRANSIT BRIDGE ABUTMENT. THE SUBMITTED DESIGN CALCULATIONS SHALL CLEARLY INCLUDE BOTH CONDITIONS. THE SHOP DRAWINGS SHALL SHOW THE PROPOSED AND FUTURE CONDITIONS AND INDICATE FUTURE ELEMENTS REQUIRED TO ALLOW THE FUTURE EXCAVATION DOWN TO ELEVATION 897.00.
5. FOR STANDARD NOTES AND DESIGN DATA, SEE DRAWING NO. 32-0004.
6. FOR SECTIONS AND DETAILS, SEE DRAWING NOS. 32-0005 AND 32-0006.



WALL NO. 3

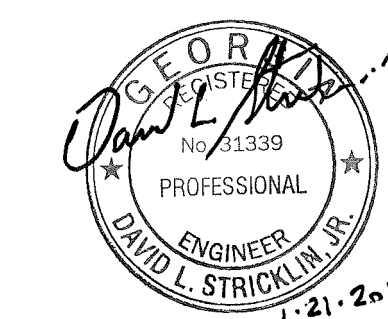
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ATLANTA BELTLINE

WALL PLAN AND ELEVATION - WALL NO. 3
PONCE DE LEON COMPLETE STREET
RETROFIT AND BELTLINE CONNECTION
FULTON COUNTY 0012586

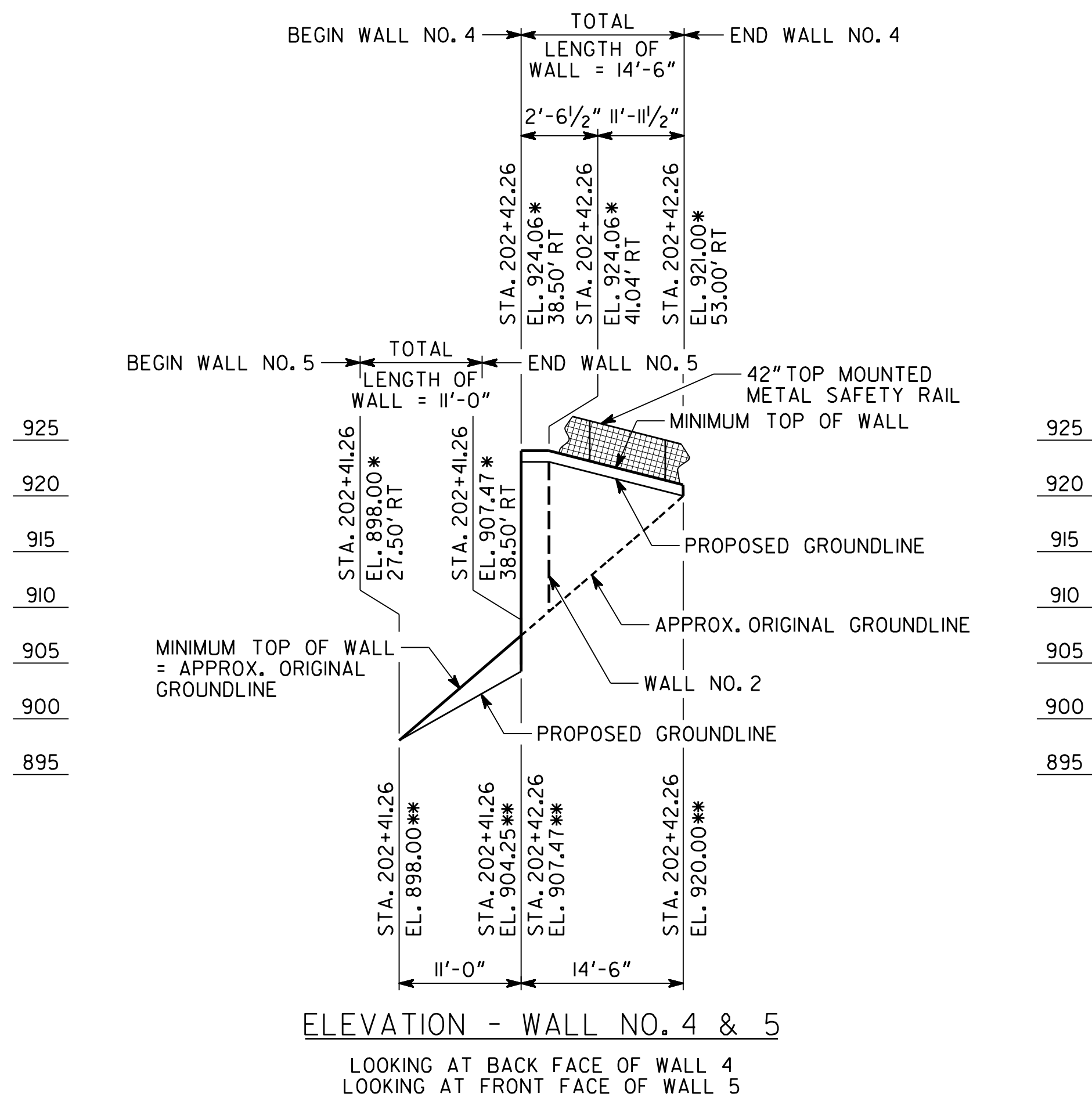
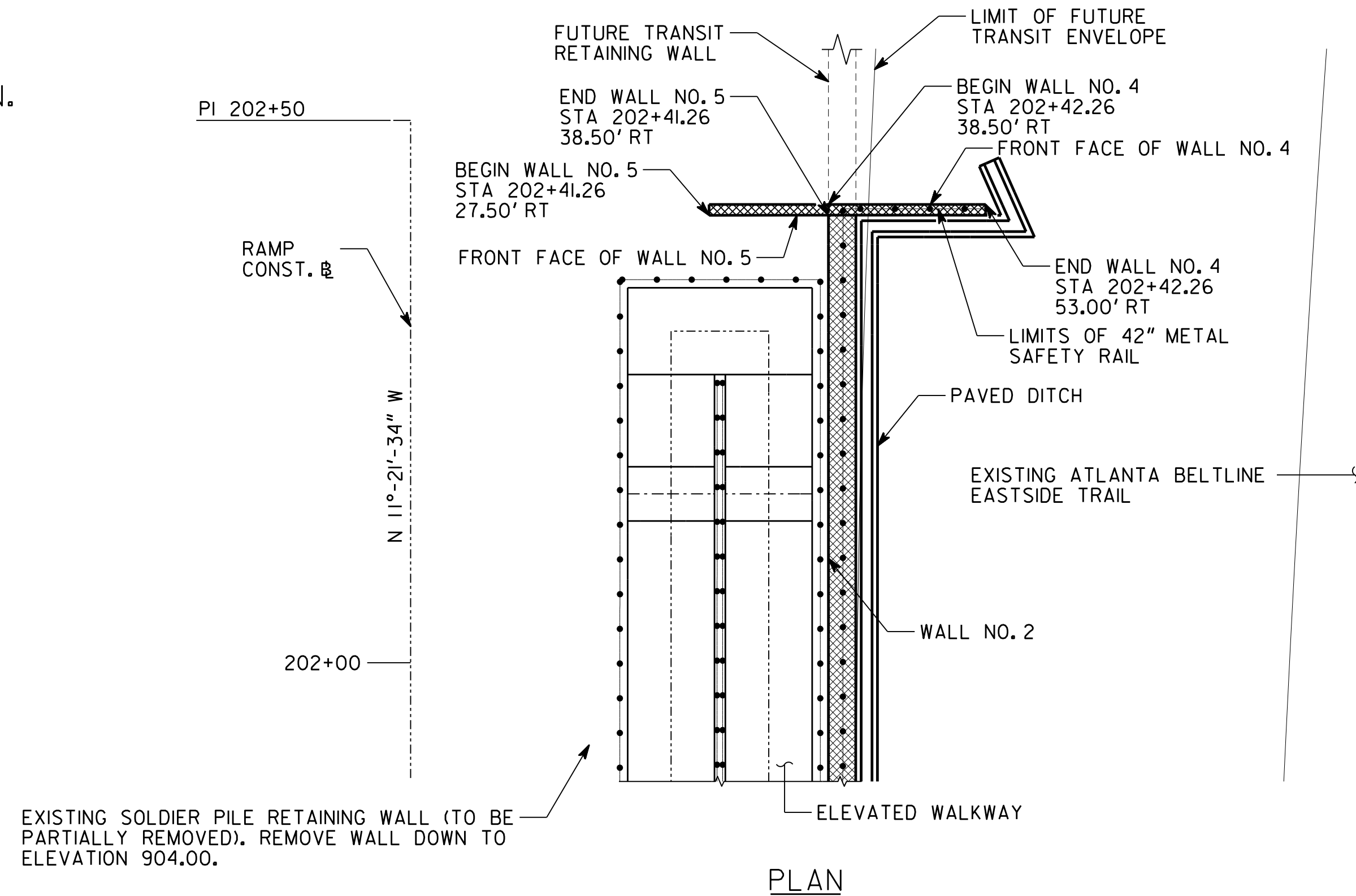
SCALE: 1" = 10'-0" JANUARY 2019



DRAWING NO.
32 - 0002
WALL SHEET
2 OF 6

BY	REVISIONS	DATE

DESIGNED GAG	CHECKED DLS	REVIEWED SKG
DRAWN GAG	DESIGN GROUP	APPROVED WMD



NOTES:

1. STATIONS ARE ALONG RAMP CONST. \mathbb{E} . OFFSETS GIVEN TO FRONT FACE OF WALL.
2. * MINIMUM TOP OF WALL ELEVATIONS.
3. ** ELEVATIONS SHOWN ARE AT FINISHED GRADE ELEVATION AT FRONT FACE OF WALL.
4. FOR STANDARD NOTES AND DESIGN DATA, SEE DRAWING NO. 32-0004.
5. FOR SECTIONS AND DETAILS, SEE DRAWING NOS. 32-0005 AND 32-0006.

WALL NO. 4 & 5

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ATLANTA BELTLINE

WALL PLAN AND ELEVATION - WALL NO. 4 & 5
PONCE DE LEON COMPLETE STREET
RETROFIT AND BELTLINE CONNECTION
FULTON COUNTY 0012586

SCALE: 1" = 10'-0" JANUARY 2019



1-21-2019

DRAWING NO.	32 - 0003
WALL SHEET	3 OF 6

REVISIONS	DATE

DESIGNED GAG	CHECKED DLS	REVIEWED SKG
DRAWN GAG	DESIGN GROUP	APPROVED WMD

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 EDITION AND 2016 SUPPLEMENTAL SPECIFICATIONS, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. MAINTAIN 2" MINIMUM CLEARANCE ON ALL REINFORCING UNLESS OTHERWISE NOTED.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

JOINTS IN WALL FORMS - JOINTS IN WALL FORMS SHALL BE SUPPORTED WITH BACKING STRIPS TO PROVIDE A FLUSH SURFACE IN THE FINISHED WALL FACE.

CLEARANCE - MAINTAIN 3" CLEARANCE OF ALL LEVELING PAD REINFORCING STEEL. MAINTAIN 2" CLEARANCE AT ALL OTHER REINFORCING STEEL.

SOLDIER PILES - SOLDIER PILES ARE REQUIRED FOR TIE-BACK WALLS. SOLDIER PILES SHALL EXTEND A MINIMUM OF 10'-0" BELOW THE BOTTOM OF THE WALL IN SOIL OR 5'-0" BELOW BOTTOM OF WALL WITH A MINIMUM 2'-0" EMBEDMENT INTO HARD ROCK.

CONCRETE FACING - FACING SHALL BE CAST-IN-PLACE CONCRETE. PNEUMATICALLY APPLIED CONCRETE (SHOTCRETE) WILL NOT BE ALLOWED.

FINISH - FINISH EXPOSED SURFACES OF WALLS 3-5 WITH A TYPE III FINISH. FINISH WALL 2 WITH AN ARCHITECTURAL STONE FINISH AS SHOWN IN DETAILS AND 38 SERIES DRAWINGS.

PERMANENTLY ANCHORED WALL - FOR DETAILS OF PERMANENTLY ANCHORED WALL, SEE SECTION 617 OF THE GEORGIA DOT SPECIFICATIONS.

ROADWAY PLANS - SEE ROADWAY PLANS FOR ROADWAY CROSS SECTIONS, DRAINAGE PLANS, AND OTHER INFORMATION NECESSARY TO CONSTRUCT WALL.

WALL PLANS - THESE PLANS ARE CONCEPTUAL AND ARE FOR ILLUSTRATIVE PURPOSES ONLY. EXACT NUMBER OF ANCHORS, THEIR LOCATIONS, AND DESIGN LOADS SHALL BE PROVIDED BY THE CONTRACTOR FOR THE WALL SYSTEM BID. THE WALL IS CONSIDERED A CONTRACTOR PROPOSED ALTERNATE. THE PRESENCE OF THE CONCEPTUAL PLANS IN THE CONTRACT DOCUMENTS IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING A WALL SYSTEM WHICH PROVIDES STRUCTURAL ADEQUACY, INCLUDING ANCHOR TESTING, IN ACCORDANCE WITH SECTION 617 OF THE GEORGIA DOT SPECIFICATIONS, AT THE BID PRICE.

PILOT HOLES - INSTALL SOLDIER PILES IN MINIMUM 30-INCH DIAMETER PILOT HOLES. BACKFILL PILOT HOLES WITH CLASS A CONCRETE FROM THE BOTTOM OF PILOT HOLES/ SOLDIER PILES TO THE BOTTOM OF WALL. REINFORCE PORTIONS OF PILOT HOLE AS INDICATED IN THE WALL DETAILS. BACKFILL PORTIONS OF PILOT HOLE ABOVE BOTTOM OF WALL WITH CONTROLLED LOW STRENGTH FLOWABLE FILL AS NEEDED.

DESIGN DATA - WALL NO. 2-5

UNDISTURBED RESIDUAL FOUNDATION SOILS

ANGLE OF INTERNAL FRICTION..... 40 DEGREES
 COHESION..... 0 PSF
 SOIL UNIT WEIGHT..... 120 PCF
 DESIGN BEARING PRESSURE..... 8,000 PSF

UNDISTURBED RESIDUAL RETAINED SOILS

ANGLE OF INTERNAL FRICTION..... 30 DEGREES
 COHESION..... 0 PSF
 SOIL UNIT WEIGHT..... 120 PCF

EXISTING SOIL FILL RETAINED SOILS

ANGLE OF INTERNAL FRICTION..... 28 DEGREES
 COHESION..... 0 PSF
 SOIL UNIT WEIGHT..... 124 PCF

NOTE:
 WALL NO. 2 SHALL BE DESIGNED FOR THE EFFECTS OF THE FUTURE LIGHT RAIL TRANSIT LOADING. THE RAIL TRANSIT LIVE LOADING MAY BE ASSUMED AS A UNIFORM SURCHARGE EQUAL TO THREE (3) ADDITIONAL FEET OF EARTH.

SUMMARY OF QUANTITIES - WALL NO. 2

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3800	16	CY	CLASS A CONCRETE, INCL REINF STEEL
515-2105	174	LF	42 IN METAL SAFETY RAIL
520-5000	620	LF	PILOT HOLES
617-0510	1	LS	PERMANENTLY ANCHORED WALL, NO-2
999-9000	3604	SF	GRANITE FACING

SUMMARY OF QUANTITIES - WALL NO. 3

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
515-2105	36	LF	42 IN METAL SAFETY RAIL
520-5000	220	LF	PILOT HOLES
617-0510	1	LS	PERMANENTLY ANCHORED WALL, NO-3

SUMMARY OF QUANTITIES - WALL NO. 4

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
515-2105	15	LF	42 IN METAL SAFETY RAIL
520-5000	60	LF	PILOT HOLES
617-0510	1	LS	PERMANENTLY ANCHORED WALL, NO-4

SUMMARY OF QUANTITIES - WALL NO. 5

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
520-5000	60	LF	PILOT HOLES
617-0510	1	LS	PERMANENTLY ANCHORED WALL, NO-5

WALL NO. 2-5

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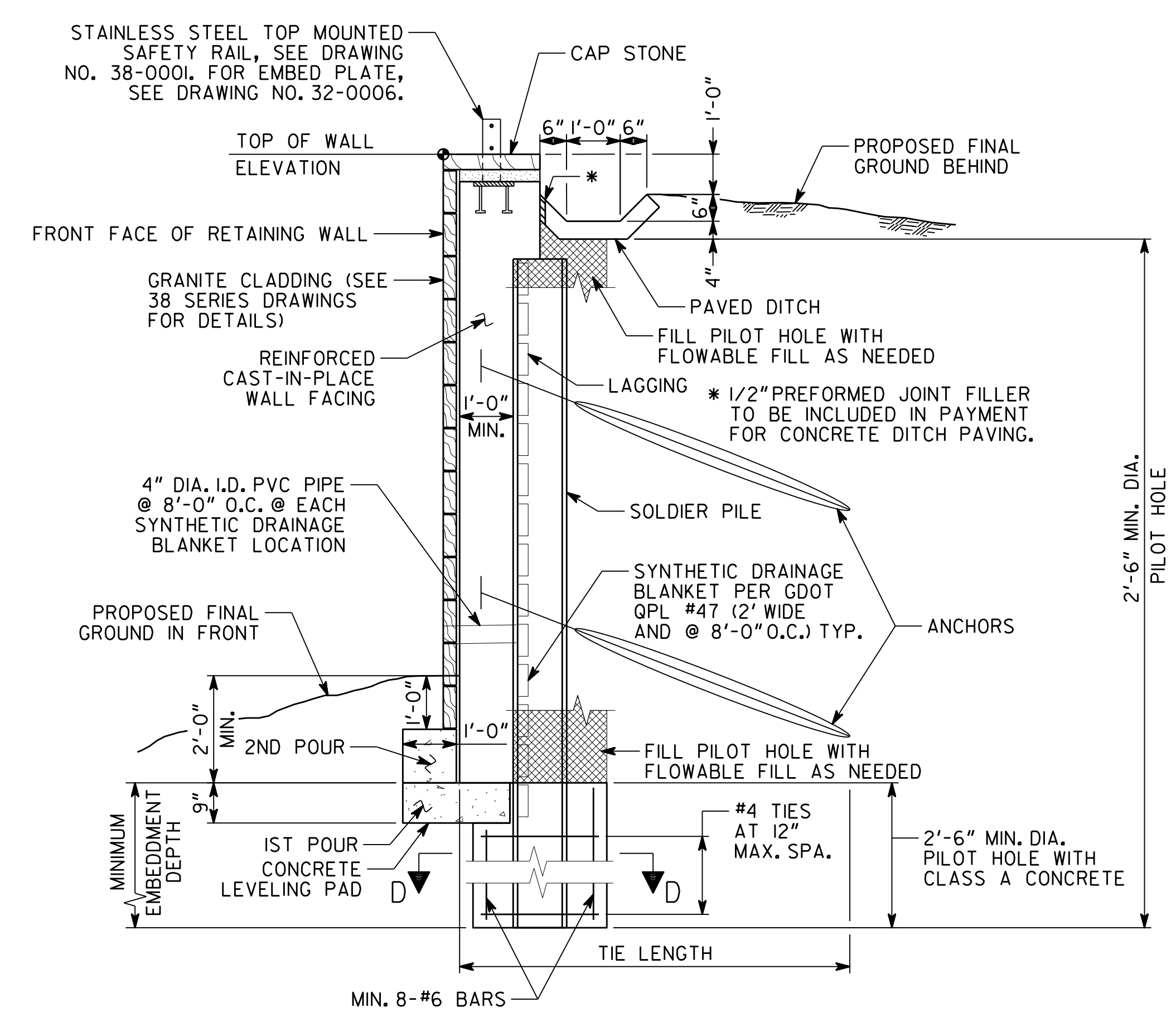
Engineering, Planning, and Environmental Consultants
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ATLANTA BELTLINE

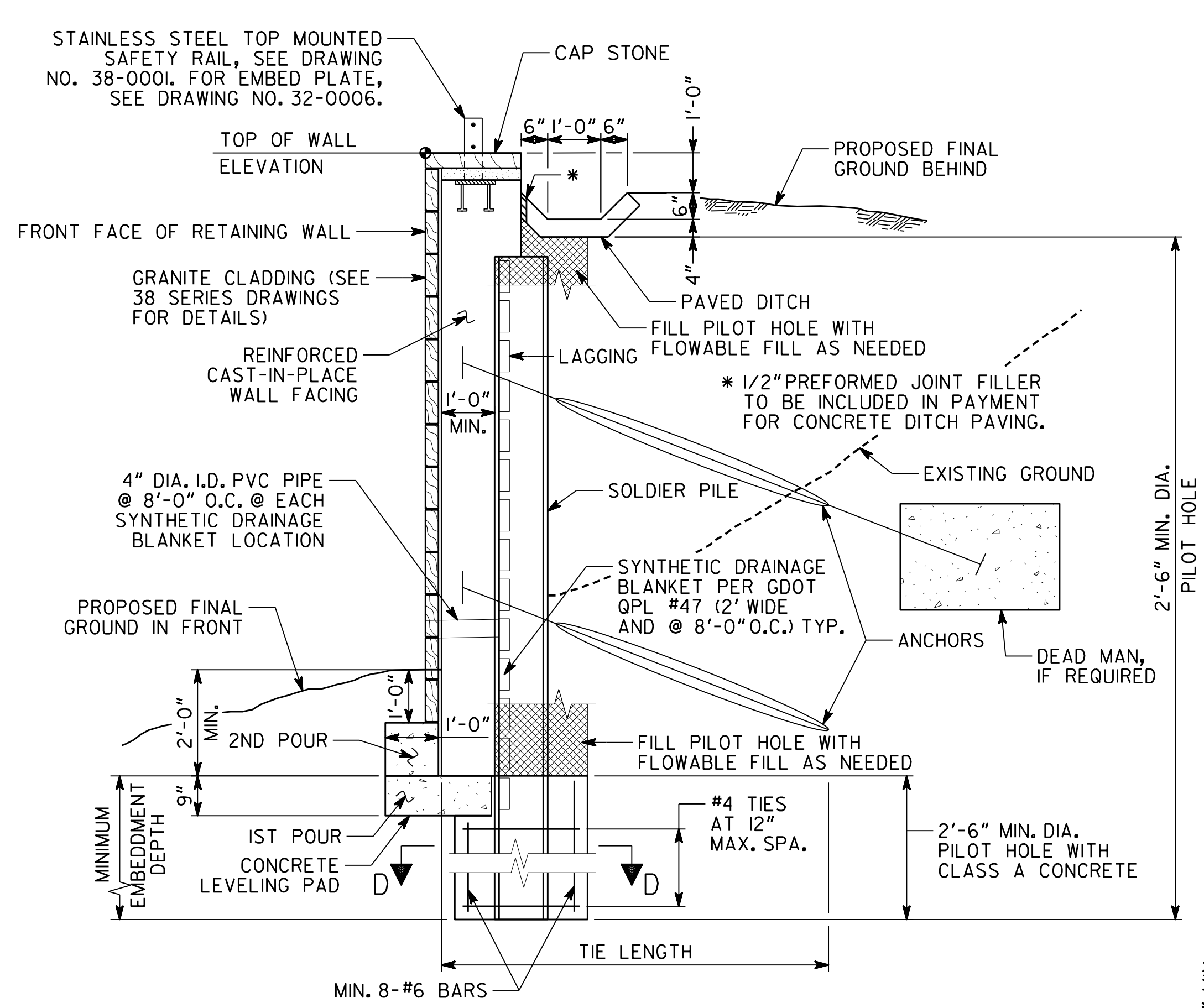
WALL GENERAL NOTES
 PONCE DE LEON COMPLETE STREET
 RETROFIT AND BELTLINE CONNECTION
 FULTON COUNTY 0012586

NO SCALE JANUARY 2019

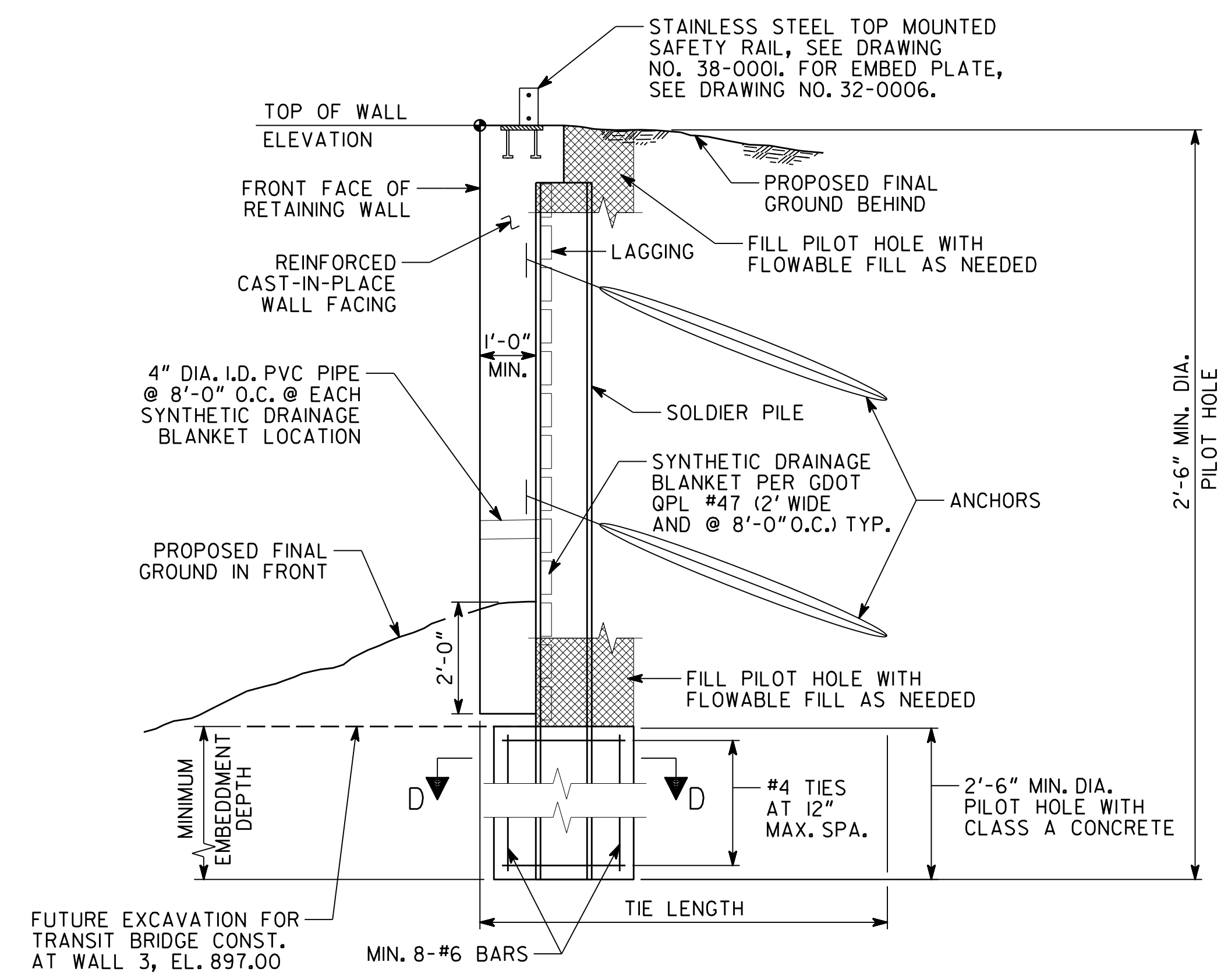
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WALL SHEET 4 OF 6			DRAWN GAG	DESIGN GROUP	APPROVED WMD



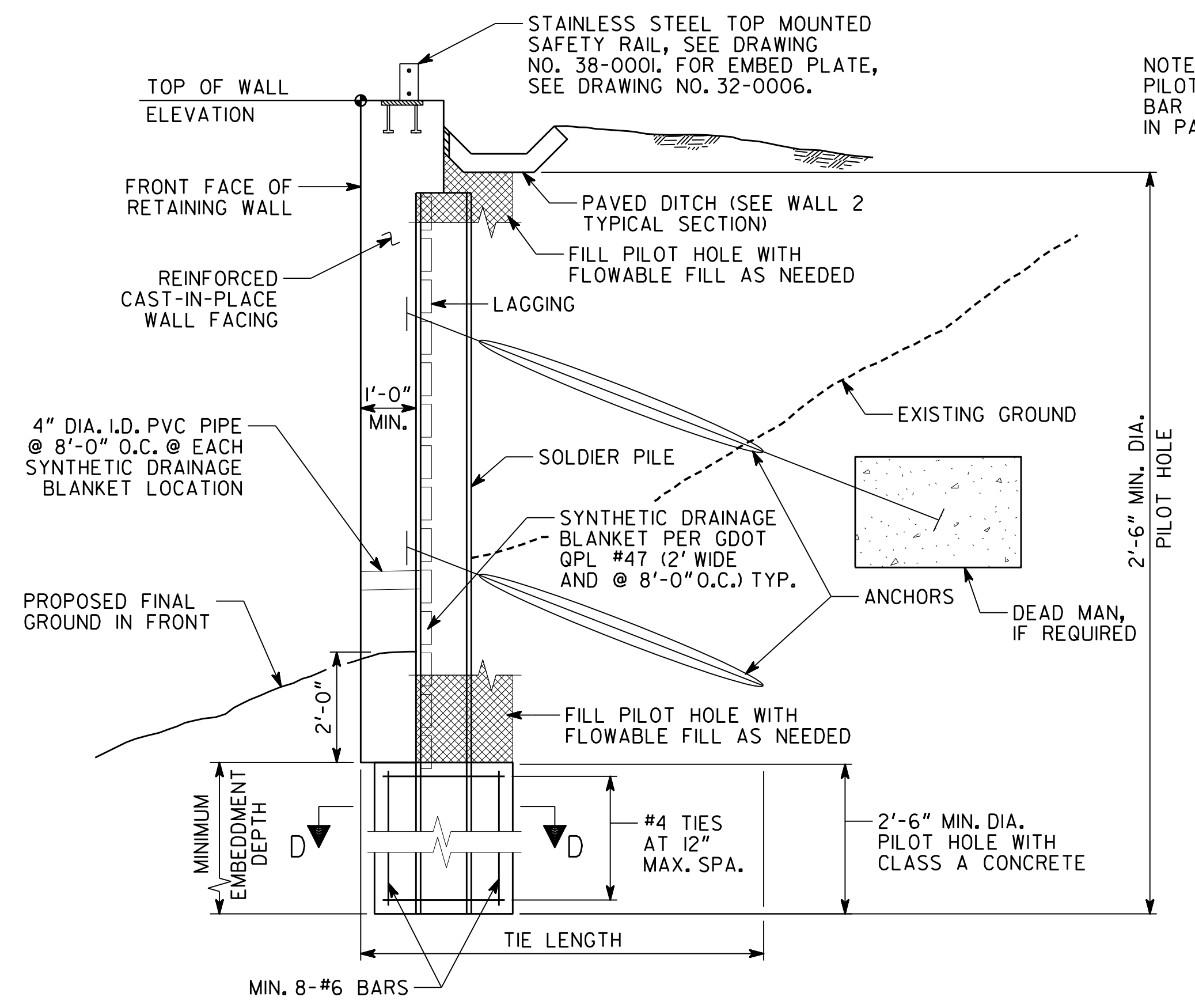
WALL 2 TYPICAL SECTION
(WALL IN CUT, PERMANENT TIE-BACK)



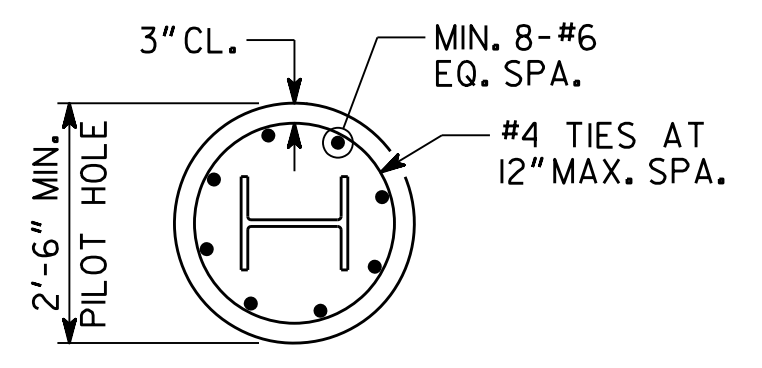
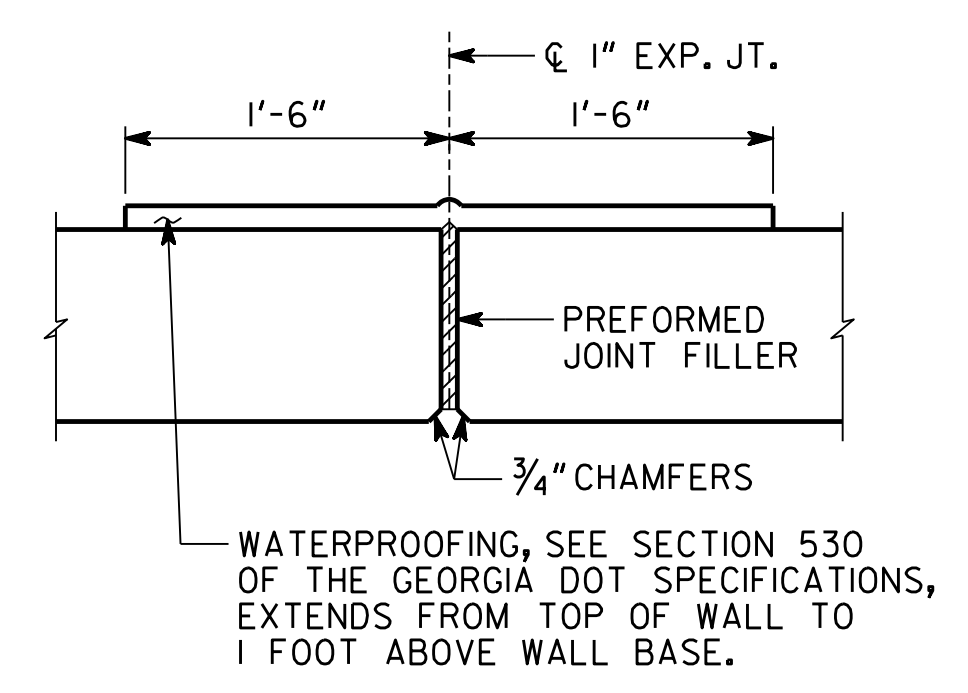
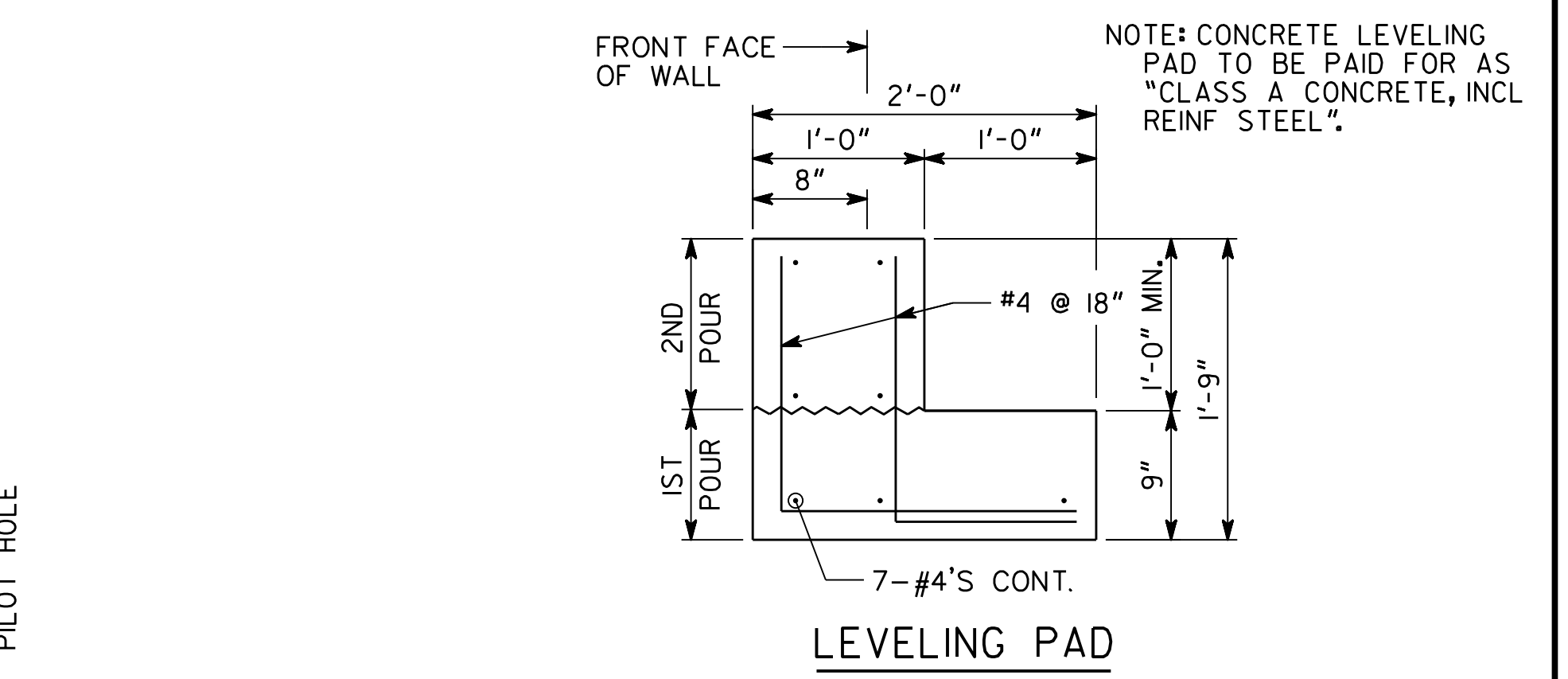
WALL 2 TYPICAL SECTION
(WALL IN FILL, PERMANENT TIE-BACK)



WALL 3 AND 5 TYPICAL SECTION
(INTERIM TIE-BACK WALL IN CUT)

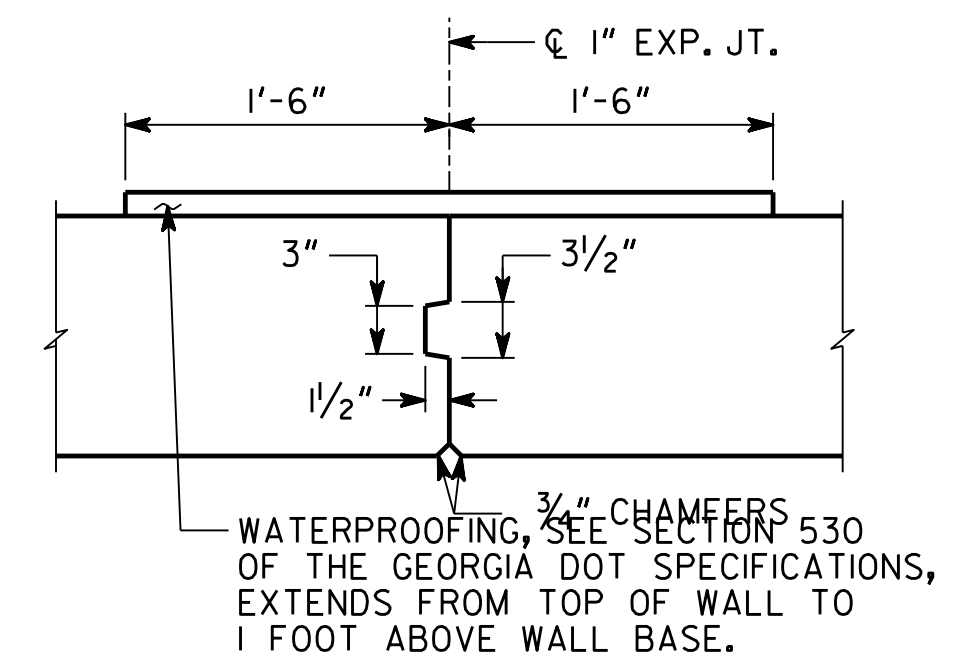


WALL 4 TYPICAL SECTION
(INTERIM TIE-BACK WALL IN FILL)



SECTION D-D

NO SCALE
NOTE: PILOT HOLE CLASS A CONCRETE AND BAR REINF. STEEL TO BE INCLUDED IN PAYMENT FOR PILOT HOLES.



DETAIL OF CONTRACTION OR CONSTRUCTION JOINT

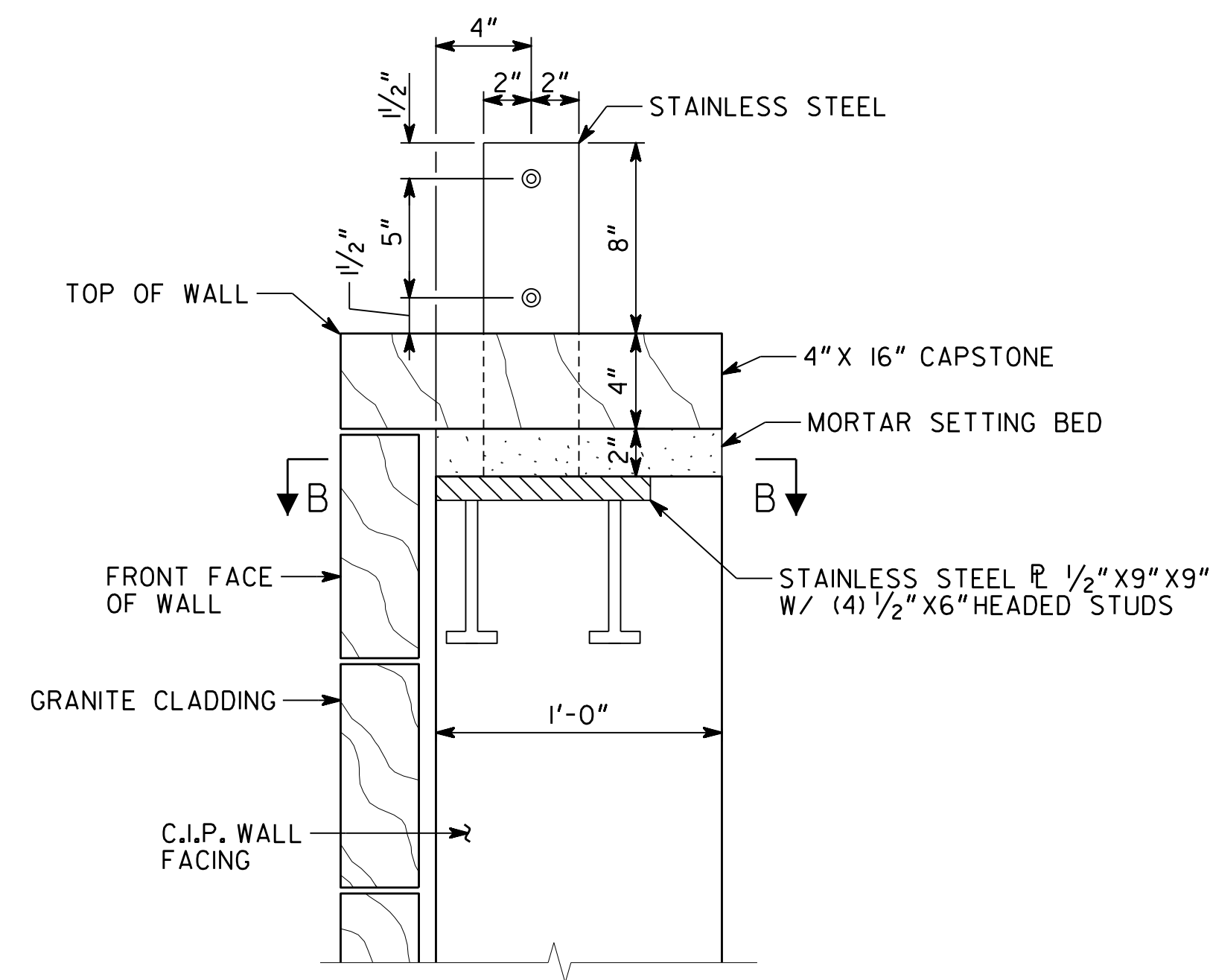
WALL NO. 2 - 5

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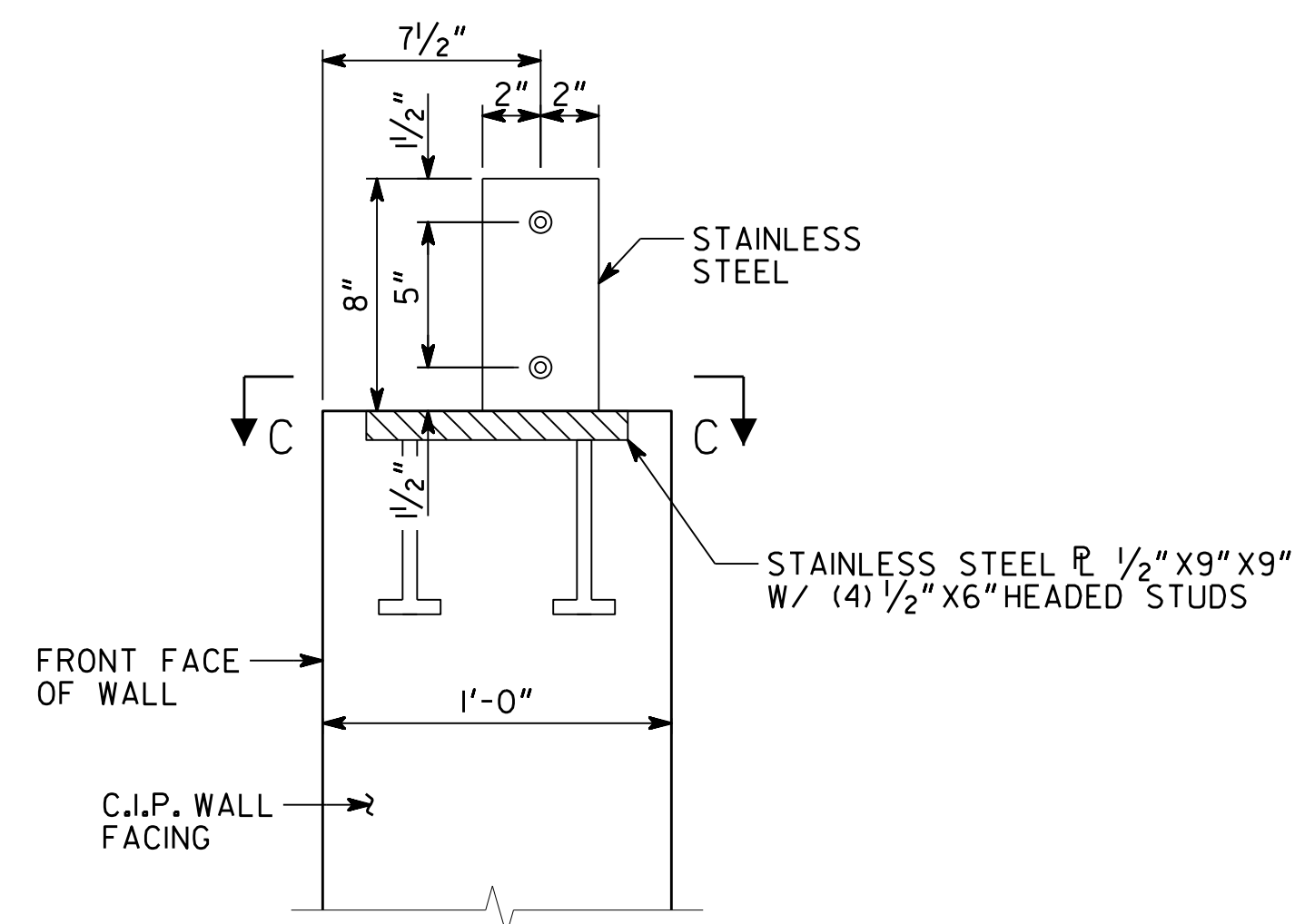
ATLANTA BELTLINE	
WALL DETAILS PONCE DE LEON COMPLETE STREET RETROFIT AND BELTLINE CONNECTION FULTON COUNTY	
0012586	
NO SCALE	
JANUARY 2019	
DESIGNED GAG	CHECKED DLS
DRAWN GAG	DESIGN GROUP
REVIEWED SKG	APPROVED WMD

DRAWING NO.	32 - 0005
WALL SHEET	5 OF 6

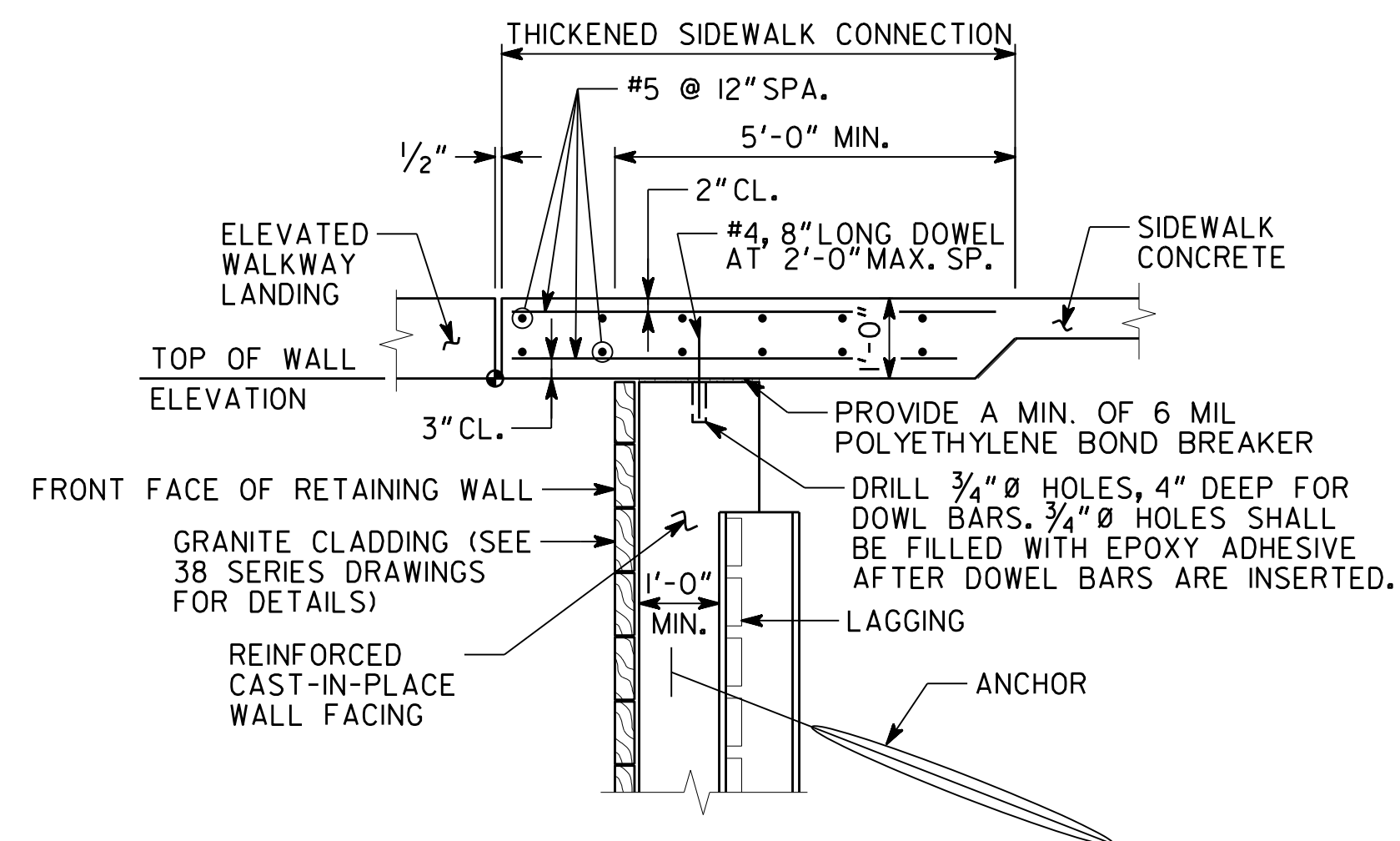


TOP-MOUNTED EMBED PLATE
(WALL 2)

- NOTES:
1. ALL STAINLESS STEEL FOR EMBED PLATES SHALL CONFORM TO ASTM A240 TYPE 304 OR ASTM A276 TYPE 304.
 2. INCLUDE THE COST FOR THE TOP MOUNTED EMBED PLATES IN PRICE BID FOR "42 IN METAL SAFETY RAIL."

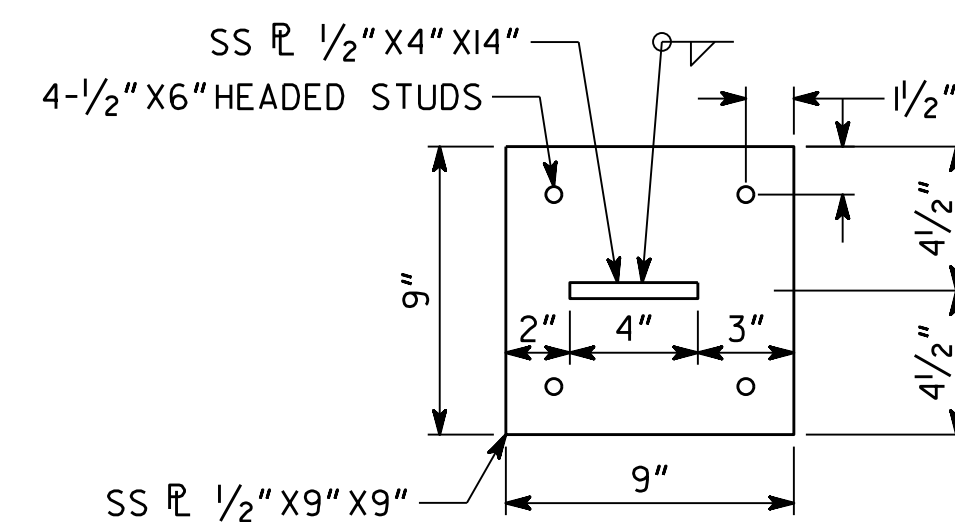


TOP-MOUNTED EMBED PLATE
(WALLS 3 AND 4)

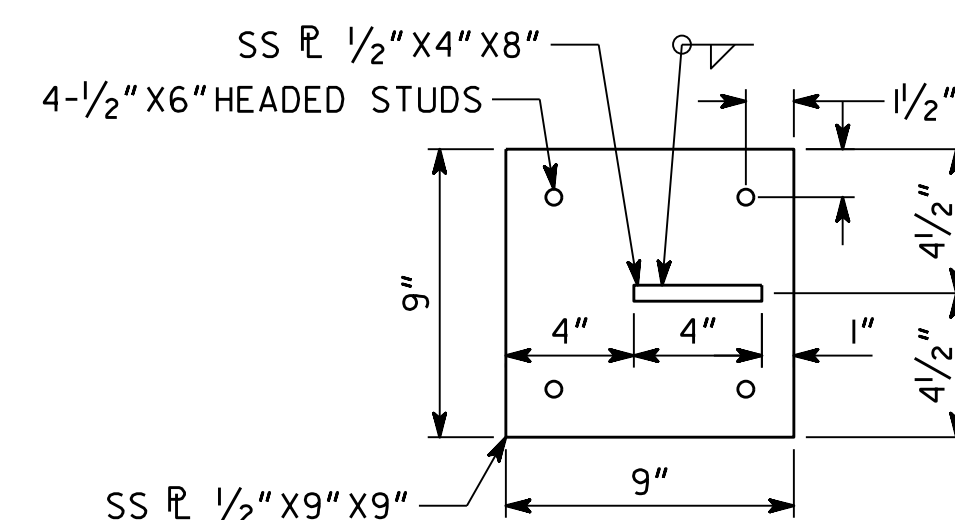


- NOTES:
1. THICKENED SIDEWALK SHALL BE CLASS AA, $f'_c = 3,500$ PSI.
 2. INCLUDE COST FOR THICKENED SIDEWALK IN PRICE BID FOR "PERMANENTLY ANCHORED WALL, NO. 2."

SECTION A-A



SECTION B-B



SECTION C-C

WALL NO. 2 - 5

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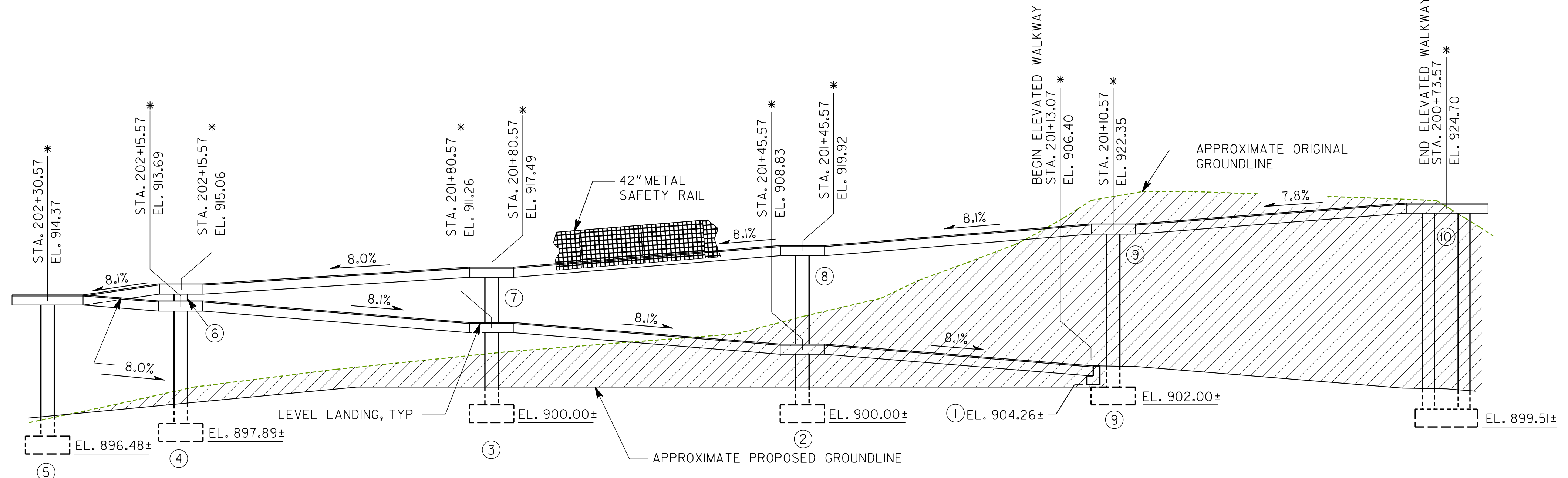
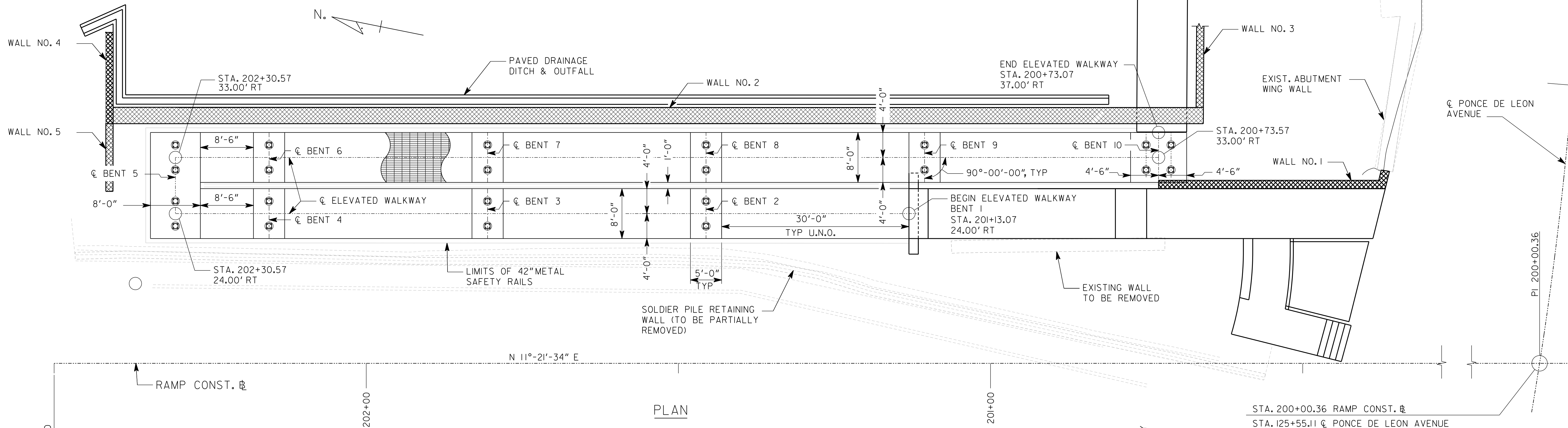
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ATLANTA BELTLINE

WALL DETAILS
PONCE DE LEON COMPLETE STREET
RETROFIT AND BELTLINE CONNECTION
FULTON COUNTY 0012586

NO SCALE JANUARY 2019

DRAWING NO. 32 - 0006	DESIGNED GAG	CHECKED DLS	REVIEWED SKG
WALL SHEET 6 OF 6	DRAWN GAG	DESIGN GROUP	APPROVED WMD



ELEVATION

* STATIONS ARE ALONG RAMP CONST. @ AT INTERSECTION OF BEGIN/END ELEVATED STRUCTURE OR @ BENT AND @ ELEVATED WALKWAY. ELEVATIONS ARE ALONG @ ELEVATED WALKWAY.

EXISTING FILL TO BE REMOVED

ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1

ATLANTA BELTLINE

PLAN AND ELEVATION - RAMPS
PONCE DE LEON AVENUE/ATLANTA
BELTLINE CONNECTION RAMP
FULTON COUNTY

0012586

SCALE: 1/8" = 1'-0"

JANUARY 2019



01-18-2019

DATE	REVISIONS	BY

S&A SASTRY & ASSOCIATES, INC.
11030 JONES BRIDGE ROAD, SUITE 201
ALPHARETTA, GA 30022
PHONE: 678-366-9375

DRAWING NO.
35 - 0001
BRIDGE SHEET
1 OF 11

DESIGNED AP/UP	CHECKED AS	REVIEWED SKG
DRAWN PS	DESIGN GROUP	APPROVED WMD

1 INCH WHEN PRINTED FULL SIZE

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0012586		

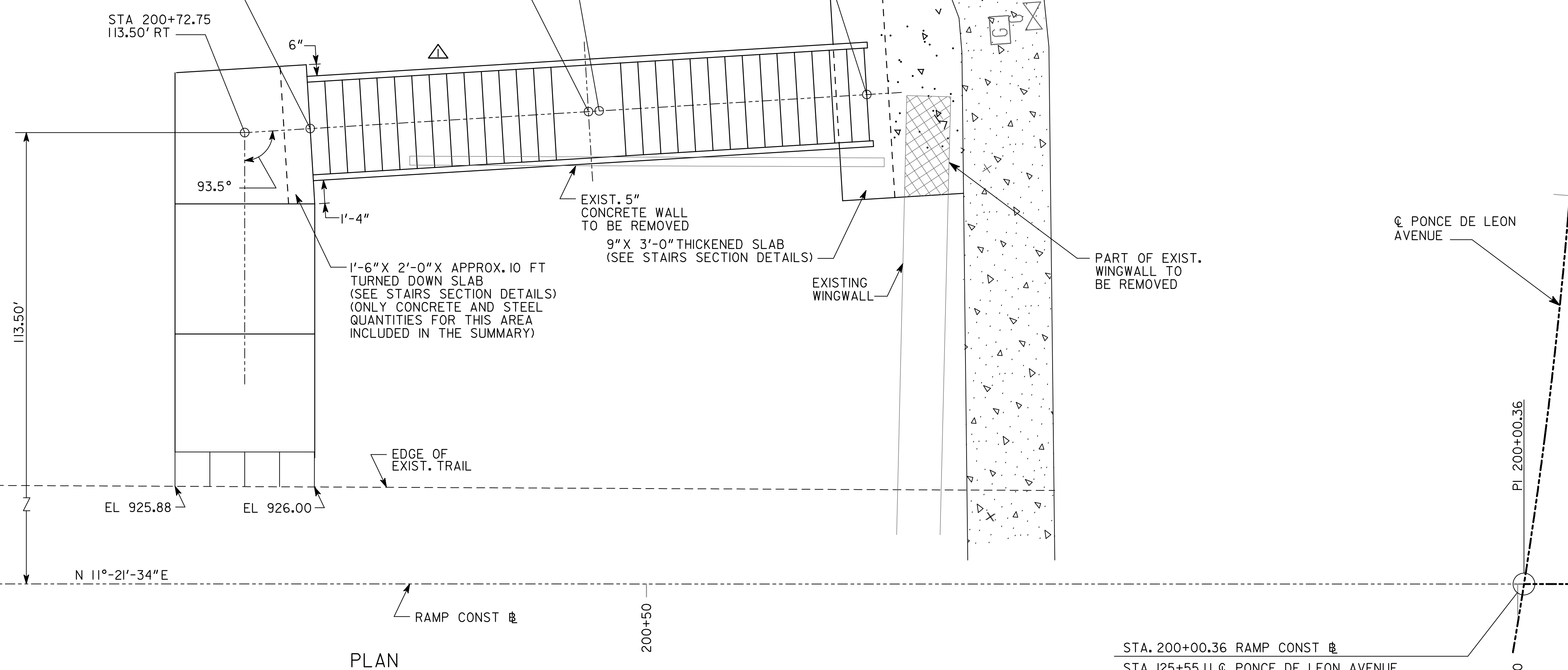
USE ON CONSTRUCTION

END STAIRS
STA 200+68.99
113.73' RT
EL 925.25
(TOP OF CONC.)

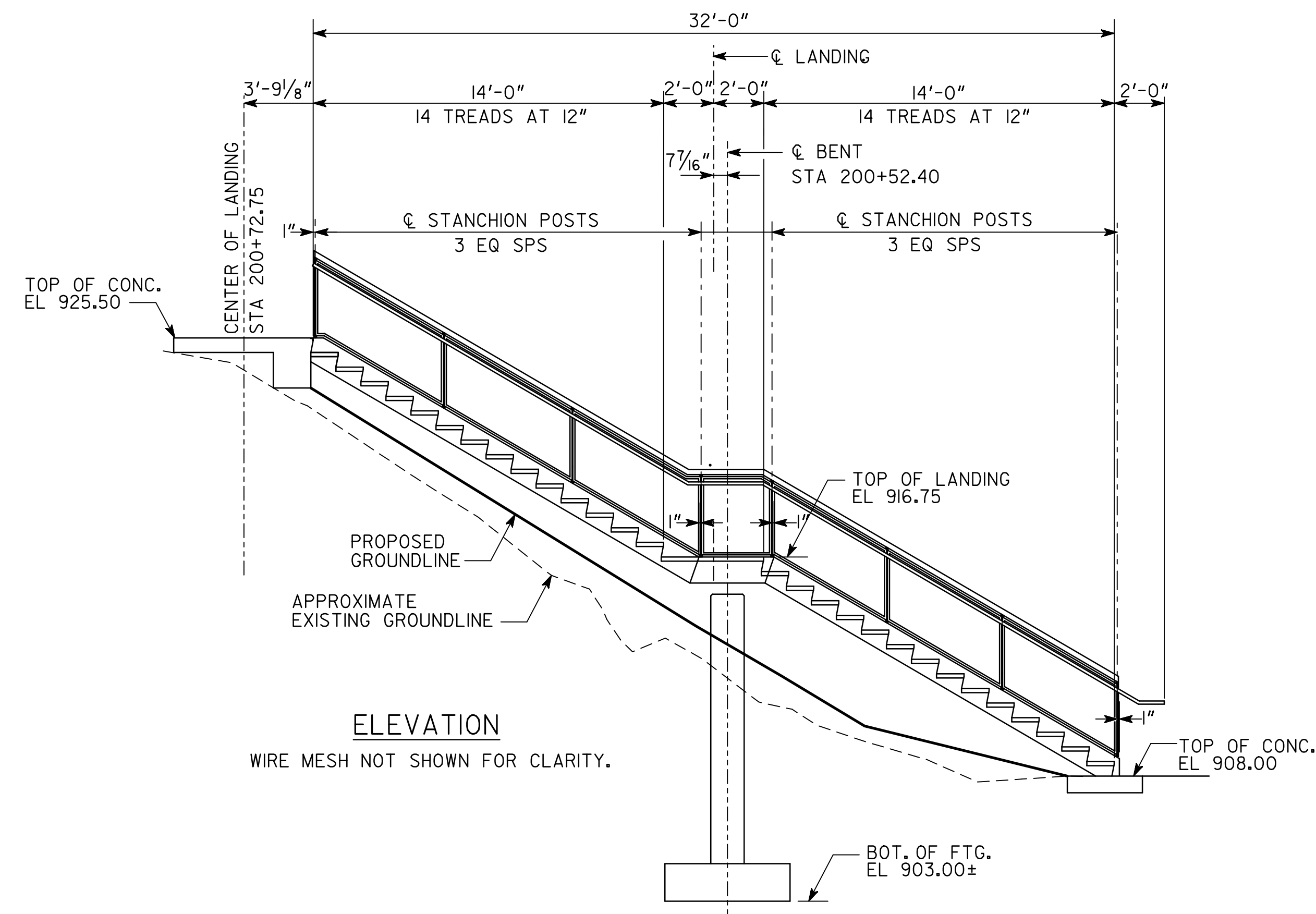
☉ LANDING =
STA 200+53.02
114.70' RT
EL 916.75

☉ BENT
STA. 200+52.40
114.74 RT.

BEGIN STAIRS
STA 200+37.05
115.68' RT
EL 908.00
(TOP OF CONC.)

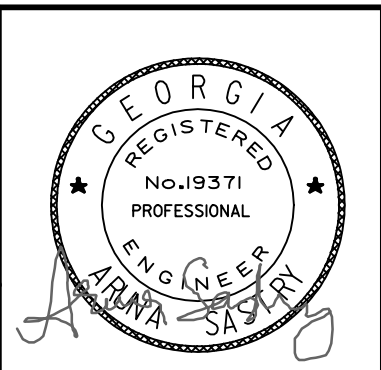


PLAN



ELEVATION

STA. 200+00.36 RAMP CONST ☉
STA. 125+55.11 ☉ PONCE DE LEON AVENUE



01-18-2019

REVISIONS	DATE
AS	05/28/21

ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1		
ATLANTA BELTLINE		
PLAN AND ELEVATION - STAIRS PONCE DE LEON AVENUE/ATLANTA BELTLINE CONNECTION RAMP FULTON COUNTY		
0012586		JANUARY 2019
SCALE 1" = 4'-0"		
DESIGNED AP/UP	CHECKED AS	REVIEWED SKG
DRAWN PS	DESIGN GROUP	APPROVED WMD

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DRAWING NO.
35 - 0002
BRIDGE SHEET
2 OF 11

1 INCH WHEN PRINTED FULL SIZE

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0012586		

USE ON CONSTRUCTION

ELEVATED WALKWAY CONSISTS OF

- 7 - 30'-0" STEEL BEAM RAMP SPANS ----- SPECIAL DESIGN
- 2 - 8'-6" STEEL BEAM RAMP SPANS ----- SPECIAL DESIGN
- 1 - 3'-0" END BENT SLAB ----- SPECIAL DESIGN
- 9 - 5'-0" CONCRETE COLUMN/STEEL BEAM INTERMEDIATE BENTS --- SPECIAL DESIGN
- 1 - 7'-0" CONCRETE COLUMN/STEEL BEAM END BENT ----- SPECIAL DESIGN
- 42" METAL SAFETY RAIL ----- SPECIAL DESIGN

STAIRS CONSISTS OF

- 1 - 32'-0" LONG STEEL STAIRS ----- SPECIAL DESIGN
- 1 - 5'-0" CONCRETE COLUMN/STEEL BEAM INTERMEDIATE BENT ---- SPECIAL DESIGN
- 42" METAL SAFETY RAIL ----- SPECIAL DESIGN

GEOTECHNICAL NOTES

SPREAD FOOTING FOUNDATION BEARING STRESSES

ELEVATED WALKWAY:		(PER BFI REPORT)	
BENTS	SERVICE I LIMIT STATE	STRENGTH II LIMIT STATE	AVAILABLE FACTORED BEARING RESISTANCE
1	2.1 KSF	2.7 KSF	19.7 KSF
2 - 9	9.0 KSF	11.8 KSF	32.7 KSF
10	8.8 KSF	11.3 KSF	37.3 KSF

METAL STAIRS:		AVAILABLE FACTORED BEARING RESISTANCE	
LANDING BENT	SERVICE I LIMIT STATE	STRENGTH II LIMIT STATE	AVAILABLE FACTORED BEARING RESISTANCE
	5.2 KSF	6.8 KSF	32.7 KSF

NOTES:

- SERVICE I LIMIT STATE AND STRENGTH II LIMIT STATE ARE THE CONTROLLING LIMIT STATES FOR BEARING STRESSES AND HAVE THE 55 MPH WIND LOAD.
- THE ABOVE VALUES ARE VALID FOR PWR OR DENSE SILTY SAND WITH AN SPT VALUE OF 30 BLOWS PER FOOT OR GREATER.
- THE GEOTECHNICAL ENGINEER SHALL INSPECT THE STAIRS FOOTING EXCAVATIONS IMMEDIATELY FOLLOWING REMOVAL OF THE RUBBLE DEBRIS AND EXISTING CONCRETE SLAB. UNSUITABLE FILL MATERIALS SHALL BE UNDERCUT AND REPLACED WITH COMPACTED NO. 57 STONE TO ACHIEVE ADEQUATE FOUNDATION BEARING, AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

GENERAL NOTES

- SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 EDITION, AND 2016 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.
 - REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. MAINTAIN 2" MINIMUM CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
 - CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
 - WAITING PERIOD - NONE REQUIRED.
 - FOOTING ELEVATIONS - DO NOT LOWER FOOTING ELEVATIONS, AS SHOWN ON THE PLANS, MORE THAN 3'-0" WITHOUT THE APPROVAL OF THE STATE BRIDGE ENGINEER.
 - CHARPY V-NOTCH TEST - ALL W-BEAMS (EXCEPT THE DIAPHRAGMS) AND CHANNELS ARE MAIN LOAD-CARRYING MEMBERS SUBJECT TO TENSILE STRESS AND SHALL MEET THE CHARPY V-NOTCH TEST REQUIREMENTS AS SPECIFIED BY SECTION 851 OF THE GEORGIA DOT SPECIFICATIONS.
 - WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW-HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.
 - METAL SAFETY RAIL - INCLUDE THE COST OF THE INTEGRALLY-MOUNTED STAINLESS STEEL HANDRAIL IN THE PRICE BID FOR "42 IN METAL SAFETY RAIL".
 - PAINT - CLEAN AND PAINT ALL NEW STRUCTURAL STEEL WITH SYSTEM VI AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS. COLOR OF THE FINAL COAT SHALL BE DECIDED ON AND APPROVED BY THE OWNER. INCLUDE THE COST IN THE PRICE BID FOR "LUMP - STR STEEL".
- △△ ALUMINUM GRATING - THE COST OF ALUMINUM ALLOY GRATING SHALL BE INCLUDED IN THE PRICE BID OF "501-3000 STR STEEL" FOR EACH STRUCTURE.

DESIGN DATA

- SPECIFICATIONS ----- AASHTO LRFD 7TH EDITION, 2014 (DESIGNED FOR SEISMIC PERFORMANCE ZONE I, SDI = 0.130)
- LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (DEC. 2009 ED. WITH 2015 INTERIMS)
- IBC INTERNATIONAL BUILDING CODE, CURRENT EDITION
- AISC STEEL CONSTRUCTION MANUAL, 14TH ED., 2010
- ADA STANDARDS FOR ACCESSIBLE DESIGN, 2010
- RAMP LIVE LOAD (MINIMUM) ----- 100 PSF
- SUBSTRUCTURE CONCRETE ----- CLASS AA, f'c = 3,500 PSI
- REINFORCEMENT STEEL ----- GRADE 60, f's = 60,000 PSI
- STRUCTURAL STEEL:
- WIDE FLANGES AND MISC CHANNEL ----- ASTM 709 GR 50, f'y = 50,000 PSI
- OTHER STRUCTURAL STEEL ----- ASTM 709 GR 36, f'y = 36,000 PSI
- BEARING ANCHOR BOLTS, NUTS, AND WASHERS ----- ASTM A276 TYPE 304
- CONNECTION BOLTS ----- ASTM F 3125, GRADE A 325, TYPE 1
- CONNECTION NUTS ----- ASTM A563
- CONNECTION WASHERS ----- ASTM F436
- △ ALUMINUM GRATING ----- ASTM B-221, 6063-T6

SUMMARY OF QUANTITIES

ELEVATED WALKWAY NO. I

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211 - 0200	153	CY	BRIDGE EXCAVATION, GRADE SEPARATION
500 - 3002	44	CY	CLASS AA CONCRETE
△ 501 - 3000	LUMP	LS	STR STEEL, BR NO I - ELEVATED WALKWAY (25890)
511 - 1000	11743	LB	BAR REINF STEEL
515 - 2105	577	LF	42 IN METAL SAFETY RAIL

STAIRS NO. I

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211 - 0200	21	CY	BRIDGE EXCAVATION, GRADE SEPARATION
500 - 3002	6	CY	CLASS AA CONCRETE
△ 501 - 3000	LUMP	LS	STR STEEL, STAIRS NO I (3010)
511 - 1000	1334	LB	BAR REINF STEEL
515 - 2105	73	LF	42 IN METAL SAFETY RAIL



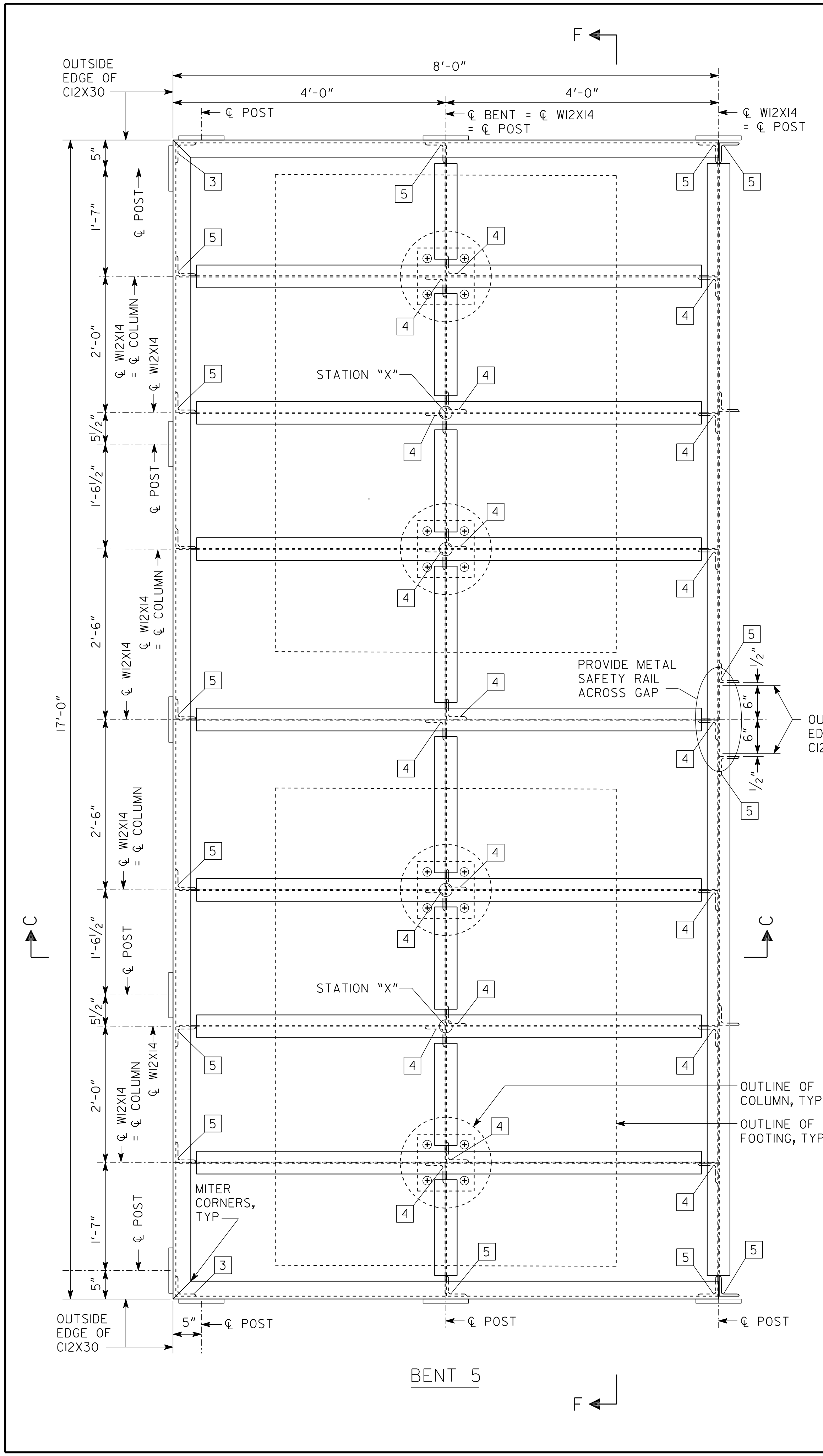
ELEVATED WALKWAY NO. I AND STAIRS NO. I

01-18-2019

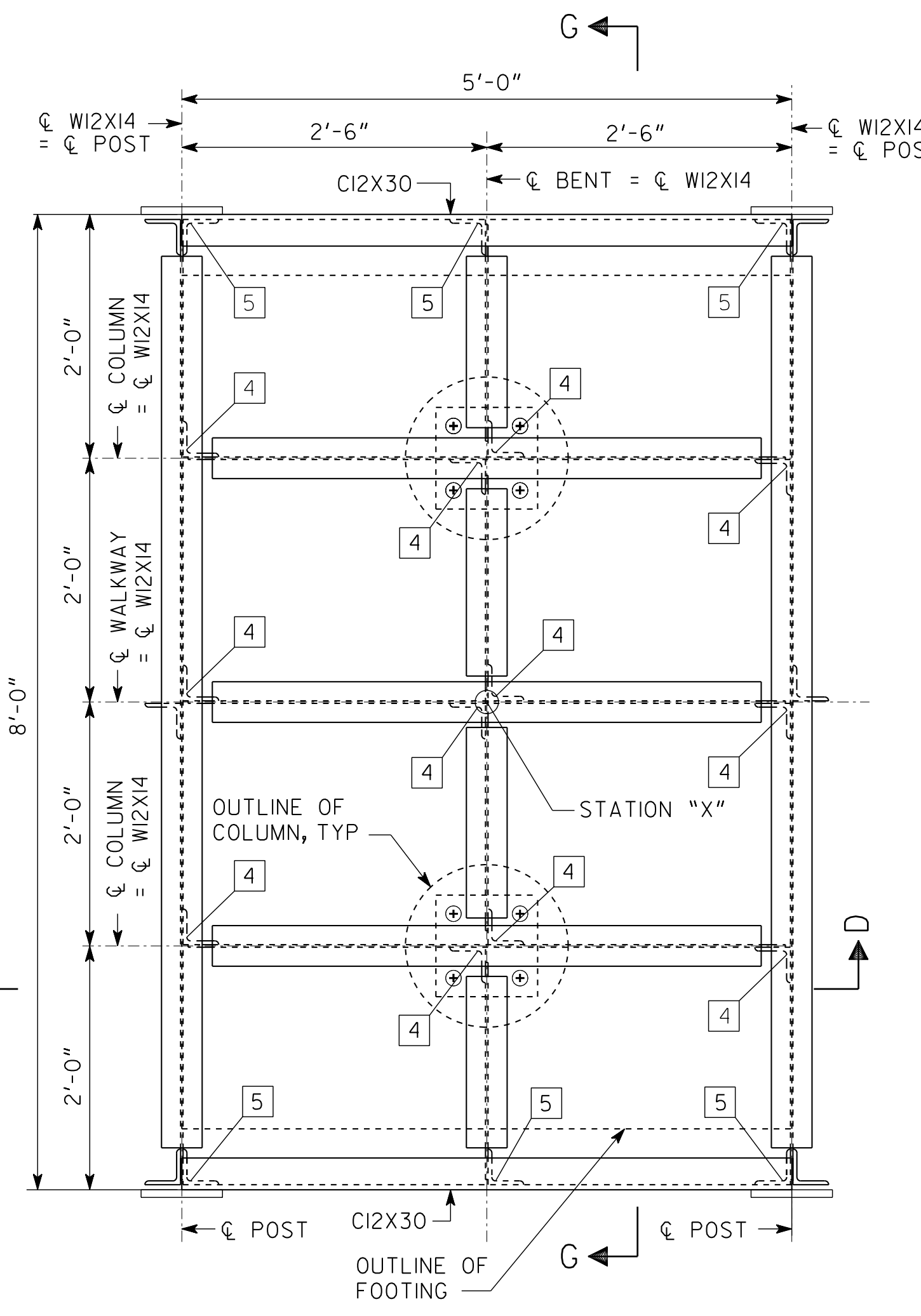
ATLANTA BELTLINE		
GENERAL NOTES PONCE DE LEON AVENUE/ATLANTA BELTLINE CONNECTION RAMP FULTON COUNTY		
0012586		
SCALE: NO SCALE		JANUARY 2019
DESIGNED AP/UP	CHECKED AS	REVIEWED SKG
DRAWN PS	DESIGN GROUP	APPROVED WMD

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11030 JONES BRIDGE ROAD, SUITE 201
ALPHARETTA, GA 30022
PHONE: 678-366-9375

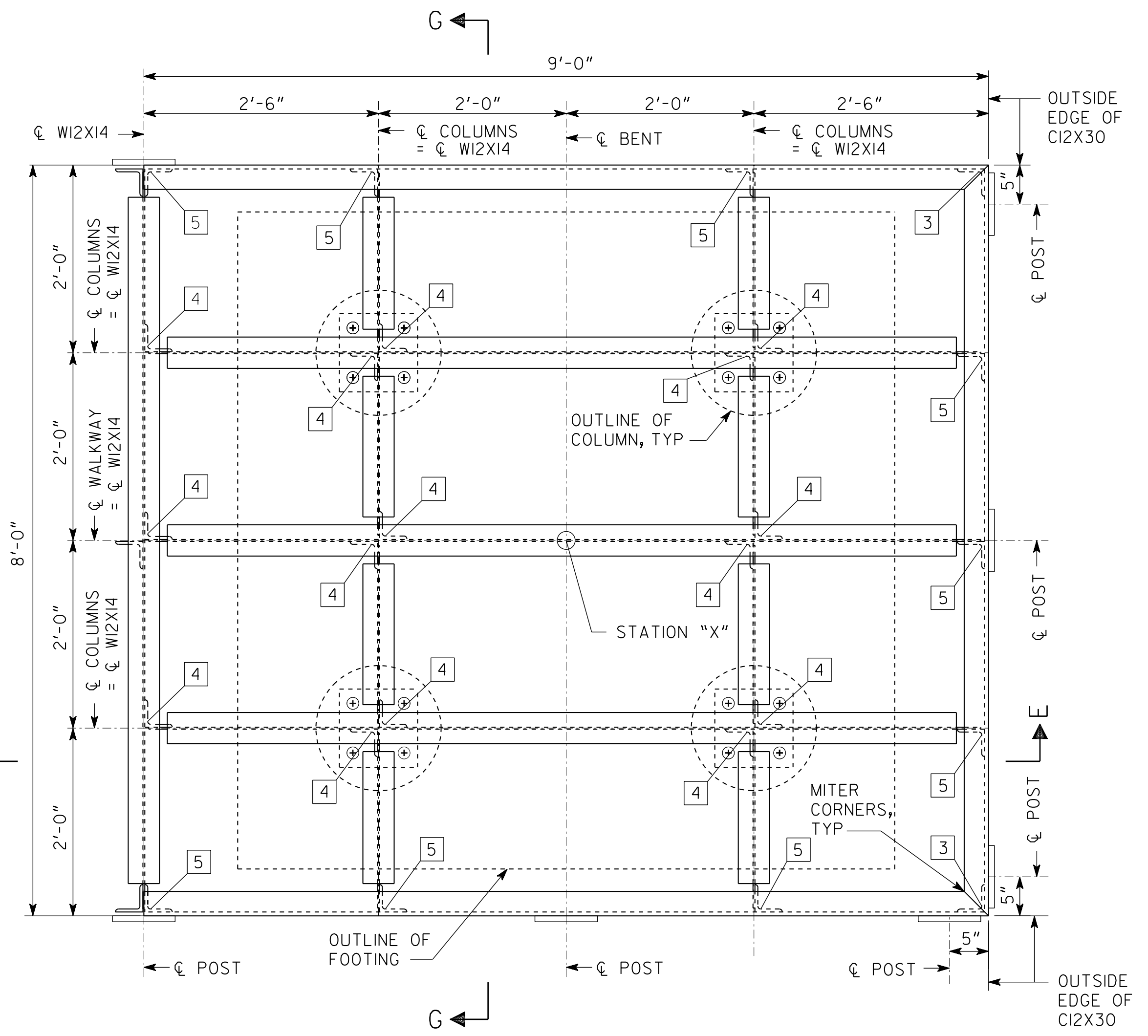
1 INCH WHEN PRINTED FULL SIZE



BENT 5



BENTS 2 THRU 4 AND 6 THRU 9



BENT 10

- NOTES:
1. FOR SECTIONS, SEE SHEET 6.
 2. [X] = CONNECTION IDENTIFICATION. SEE CONNECTION DETAILS SHEET.
 3. ALL MOUNTING PLATES ARE VERTICAL.
 4. FOR TABLE OF STATION "X", SEE SUBSTRUCTURE DETAILS SHEET.

ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1

ATLANTA BELTLINE

FRAMING PLANS - LANDINGS
 PONCE DE LEON AVENUE/ATLANTA
 BELTLINE CONNECTION RAMP
 FULTON COUNTY

0012586

SCALE: 1" = 1'-0" JANUARY 2019

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01-18-2019

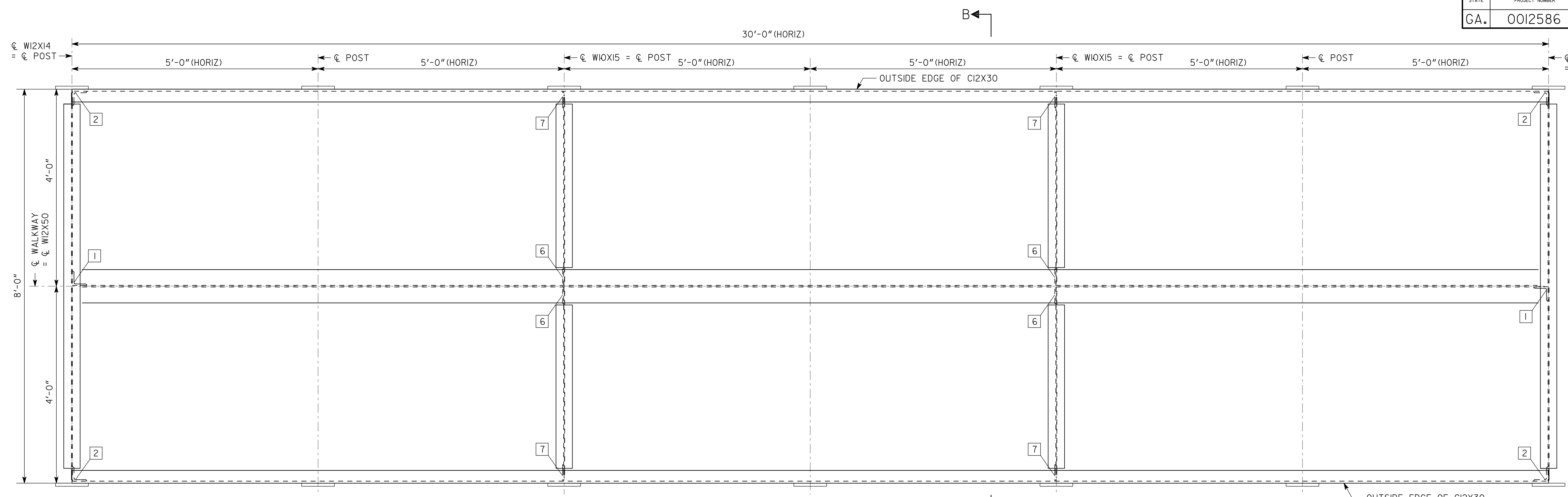
DRAWING NO. 35 - 0004
 BRIDGE SHEET 4 OF 11

REVISIONS	DATE

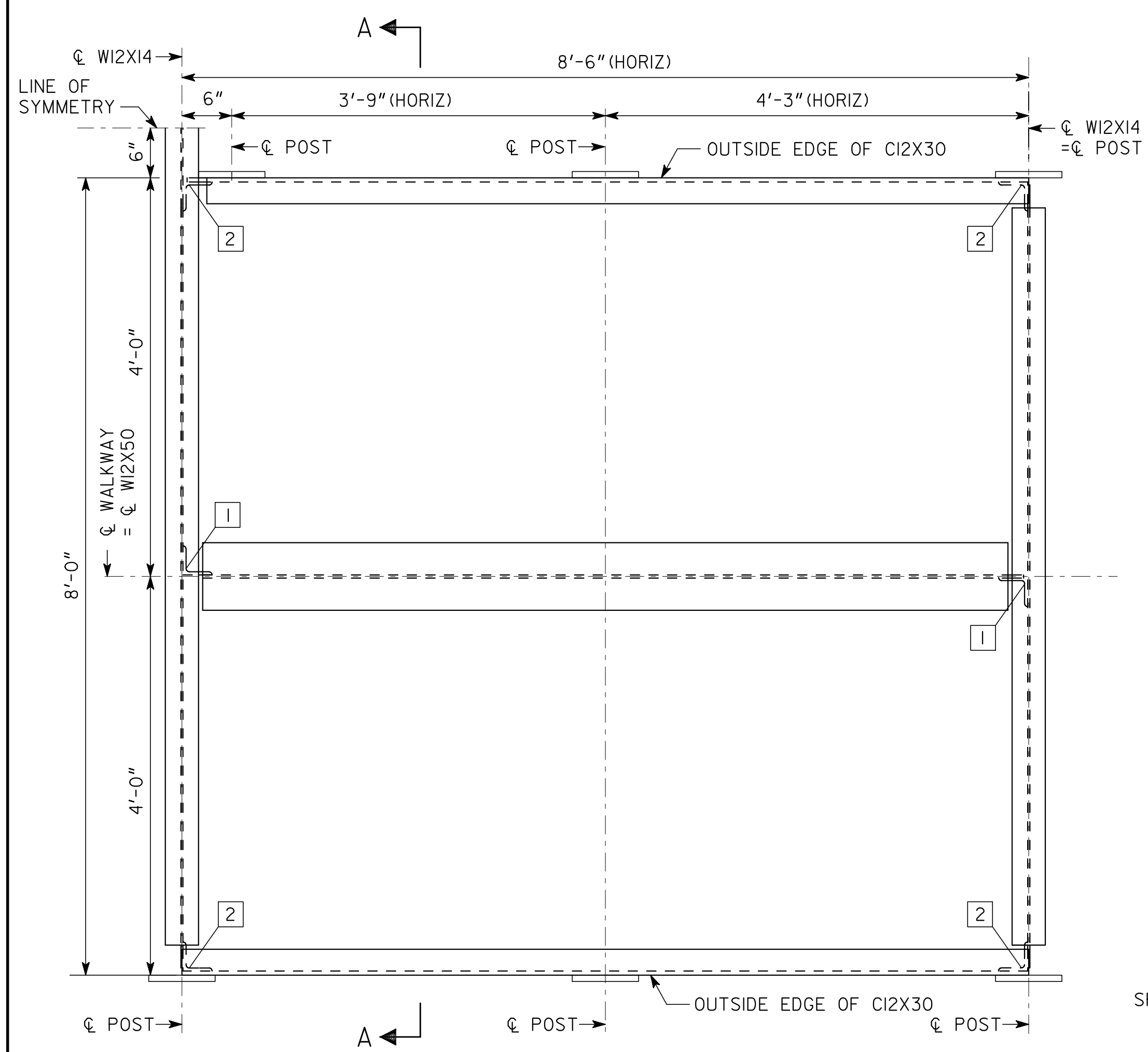
DESIGNED AP/UP	CHECKED AS	REVIEWED SKG
DRAWN PS	DESIGN GROUP	APPROVED WMD

1/4" = 1" WHEN PRINTED FULL SIZE

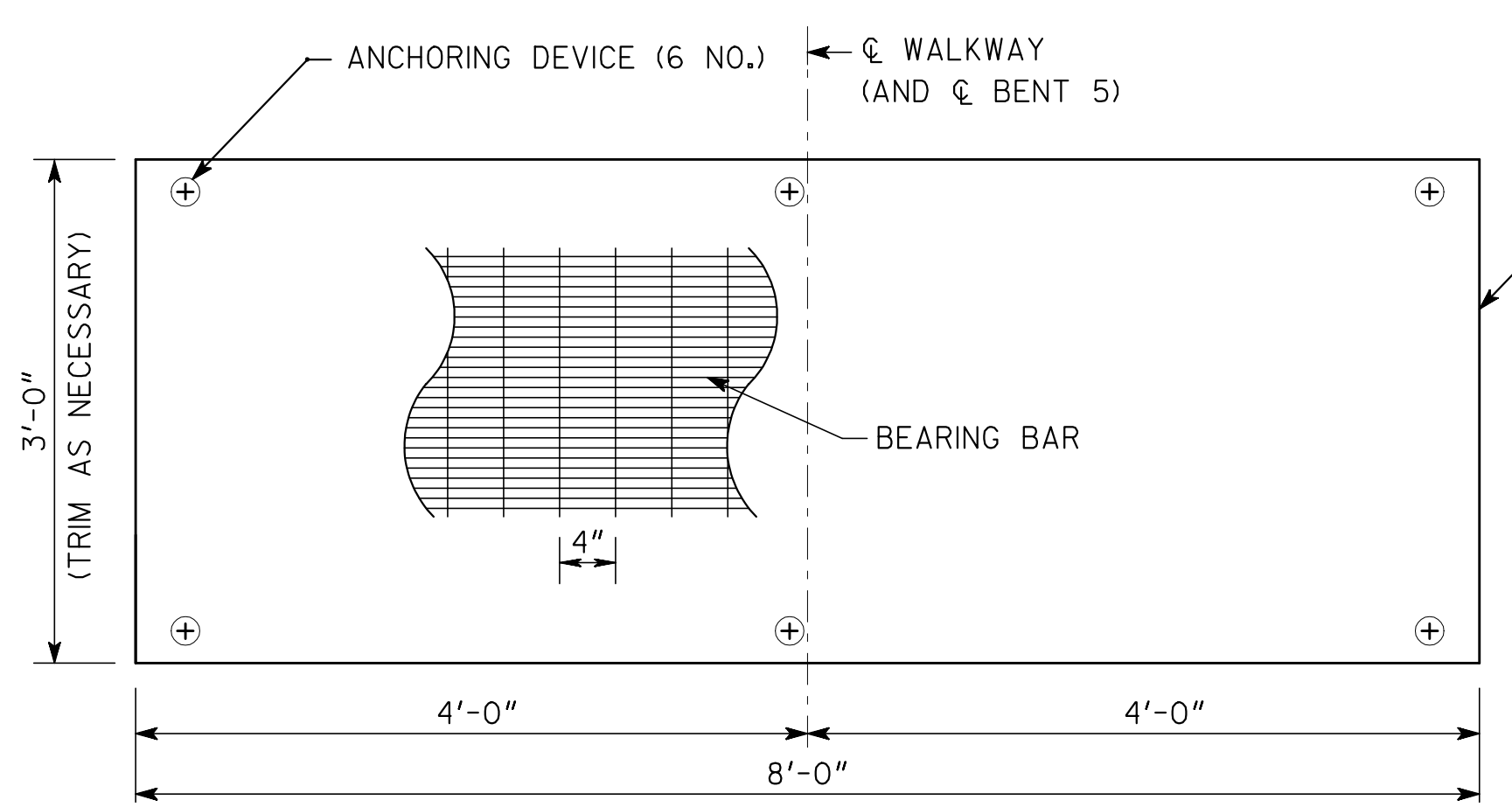
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0012586		



SPANS 1 THRU 3 AND 6 THRU 9



SPANS 4 AND 5
SPAN 4 SHOWN. SPAN 5 SIMILAR.



TYPICAL ALUMINUM GRATING PANEL

- GRATING NOTES:**
- ALUMINUM GRATING SHALL BE A SWAGE-LOCKED, T-BAR STYLE, GRATING WITH 19-S-4 SPACING, BAR SIZES SHALL BE 1" X 0.940" WITH A GROOVED SURFACE (NON-SERRATED), OR APPROVED EQUAL. GRATING CONNECTIONS SHALL BE PER MANUFACTURER'S RECOMMENDATION.
 - TEFLON ISOLATORS SHALL BE USED TO ISOLATE ALUMINUM GRATINGS FROM STRUCTURAL STEEL SUPPORTING COMPONENTS.

- NOTES:**
- POSTS ARE LOCATED ON BOTH SIDES OF RAMPS.
 - [X] = CONNECTION IDENTIFICATION. SEE CONNECTION DETAILS SHEET.
 - ALL MOUNTING PLATES ARE VERTICAL.
 - FOR SECTIONS, SEE SHEET 6.

ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1

ATLANTA BELTLINE

FRAMING PLANS - RAMPS
PONCE DE LEON AVENUE/ATLANTA
BELTLINE CONNECTION RAMP
FULTON COUNTY

0012586

SCALE: 1" = 1'-0" JANUARY 2019

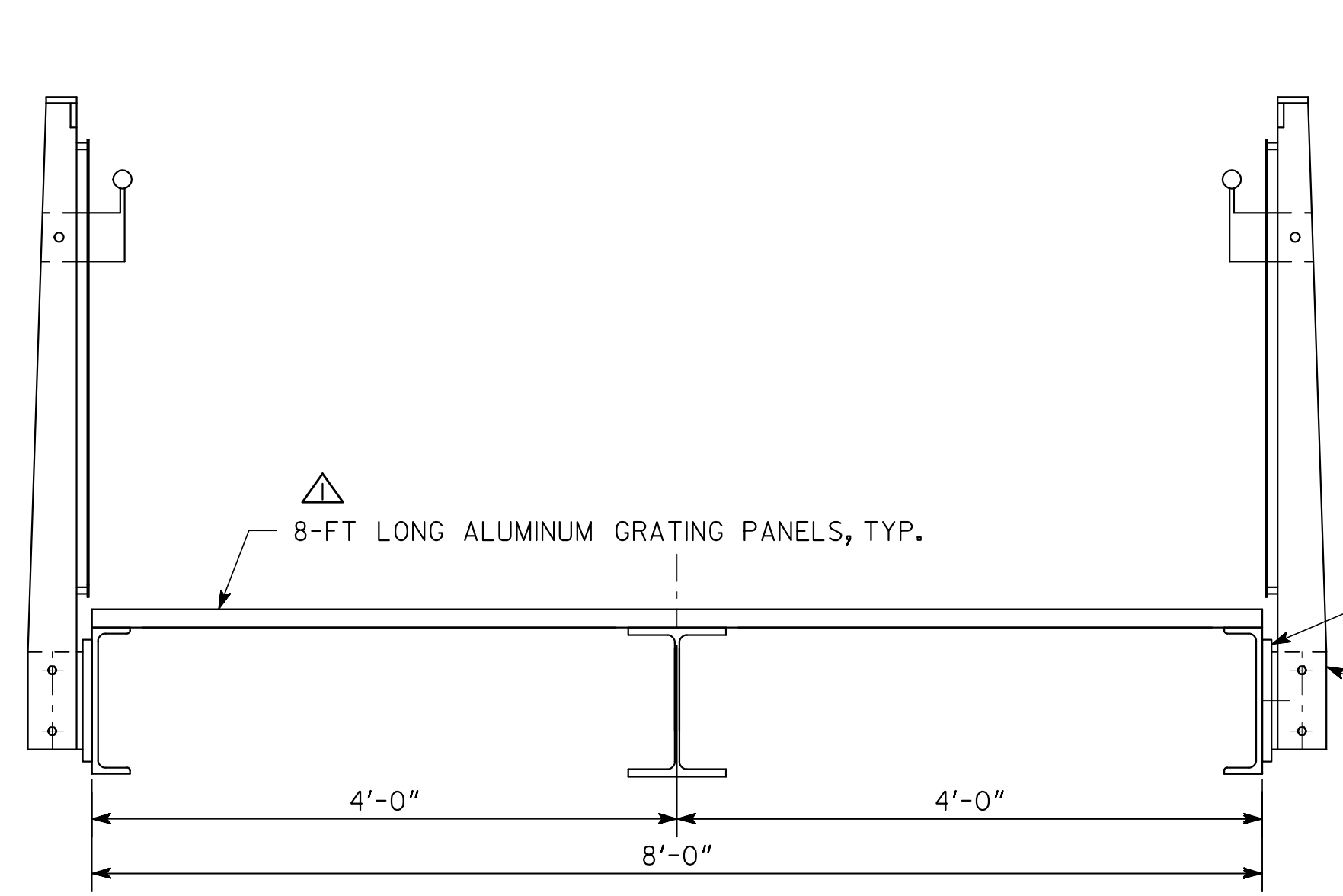
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	REVISIONS	
BY	AS	TO ALUMINUM GRATING
DRAWING NO.	35 - 0005	
BRIDGE SHEET	5 OF 11	
DESIGNED	AP/UP	CHECKED AS
DRAWN	PS	DESIGN GROUP
REVIEWED	SKG	APPROVED WMD

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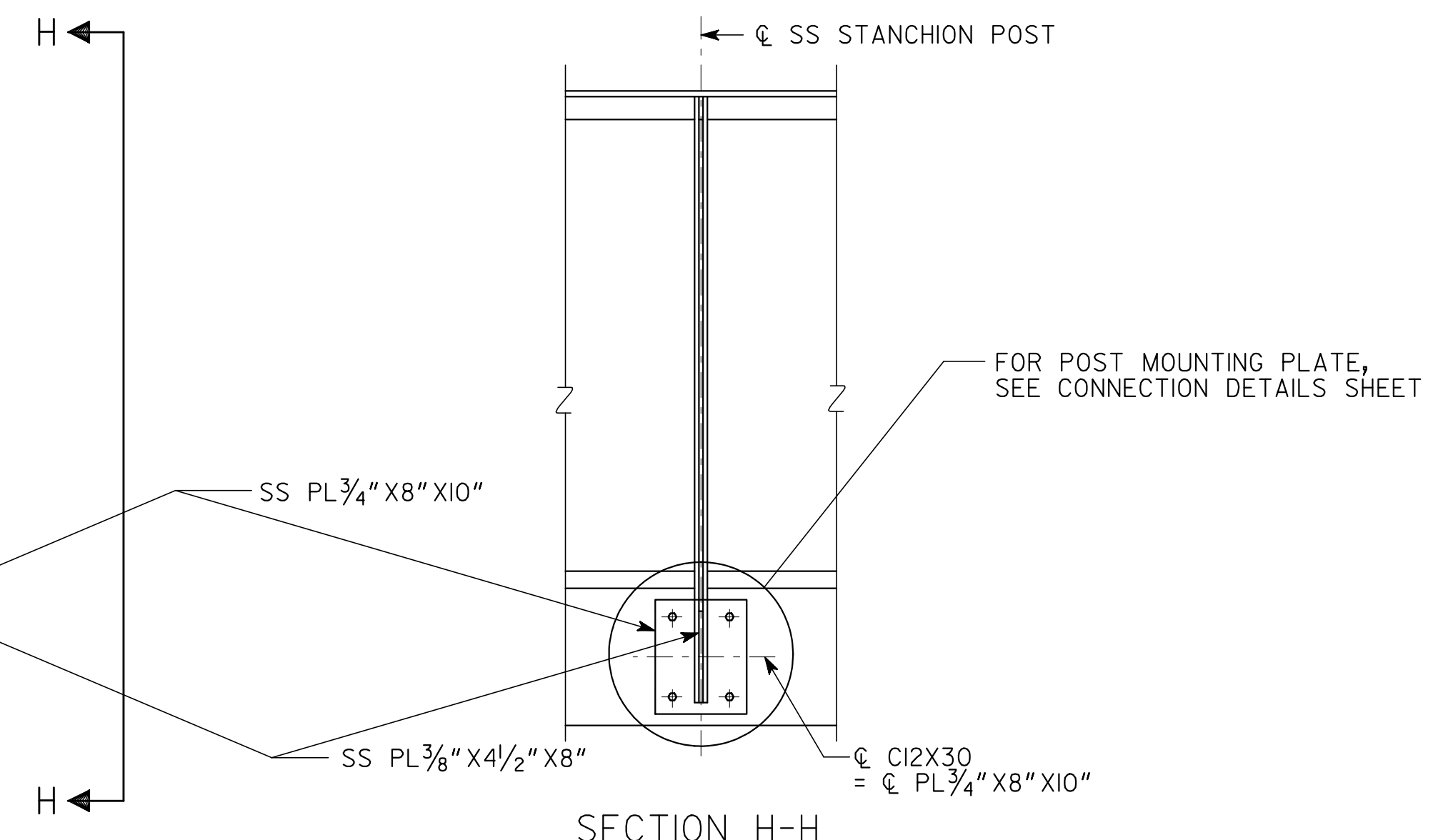
1 INCH WHEN PRINTED FULL SIZE

USE ON CONSTRUCTION

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0012586		

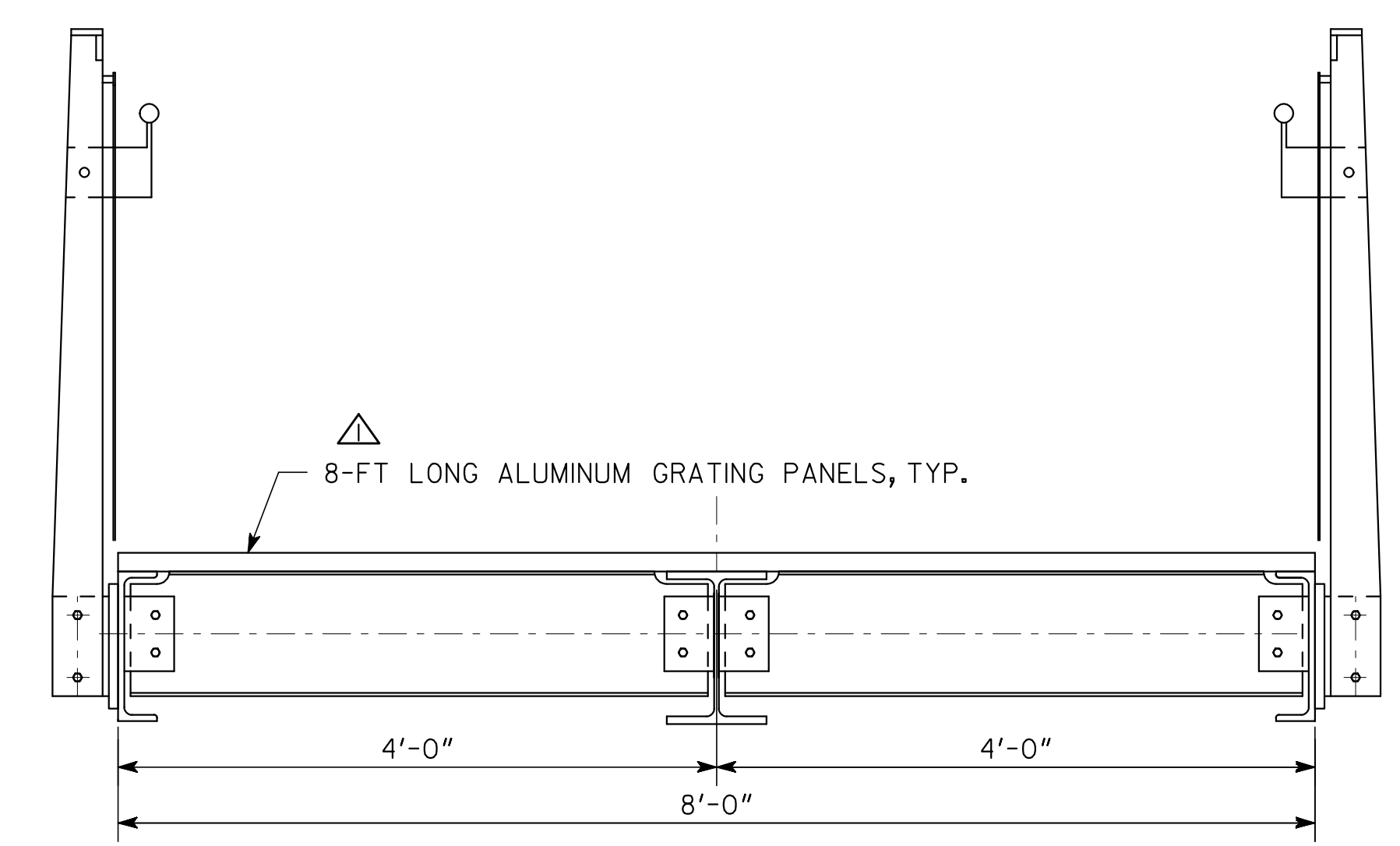


SECTION A-A

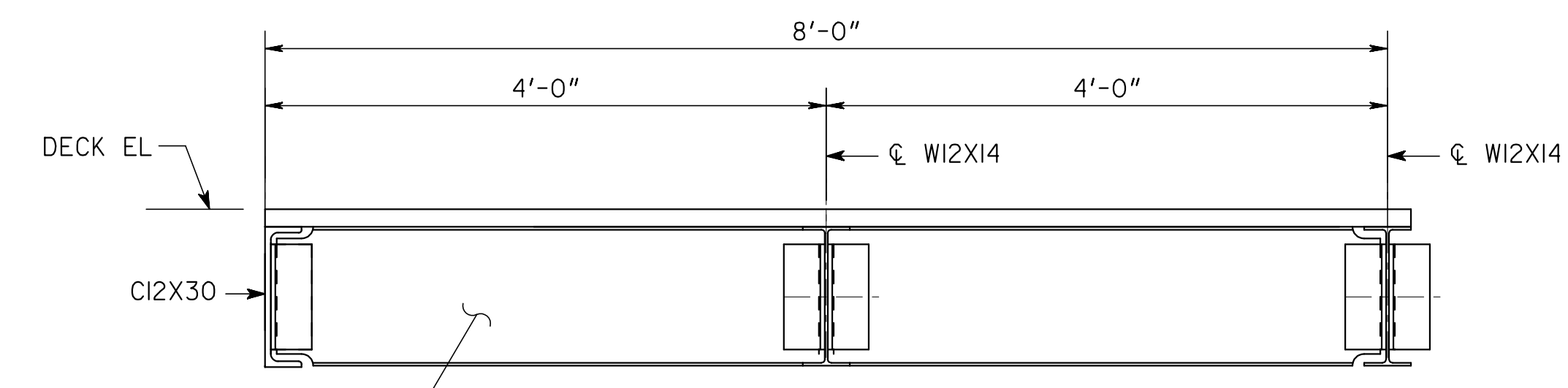


SECTION H-H

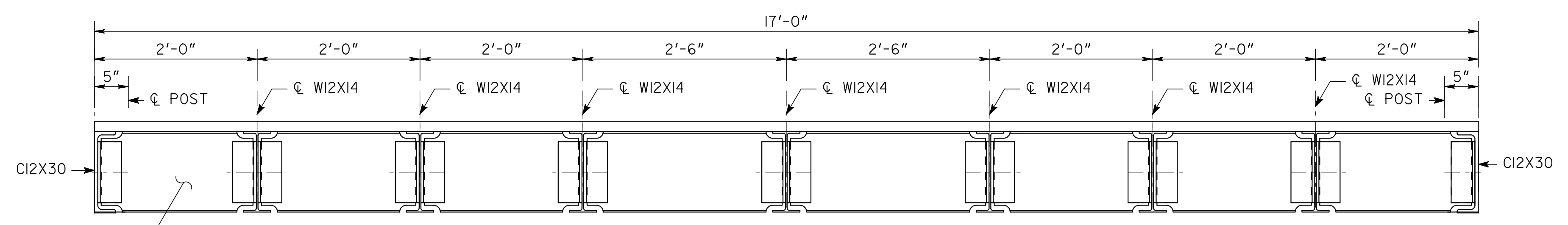
(SEE SHEET 38-001 FOR HANDRAIL AND FENCE DETAILS)



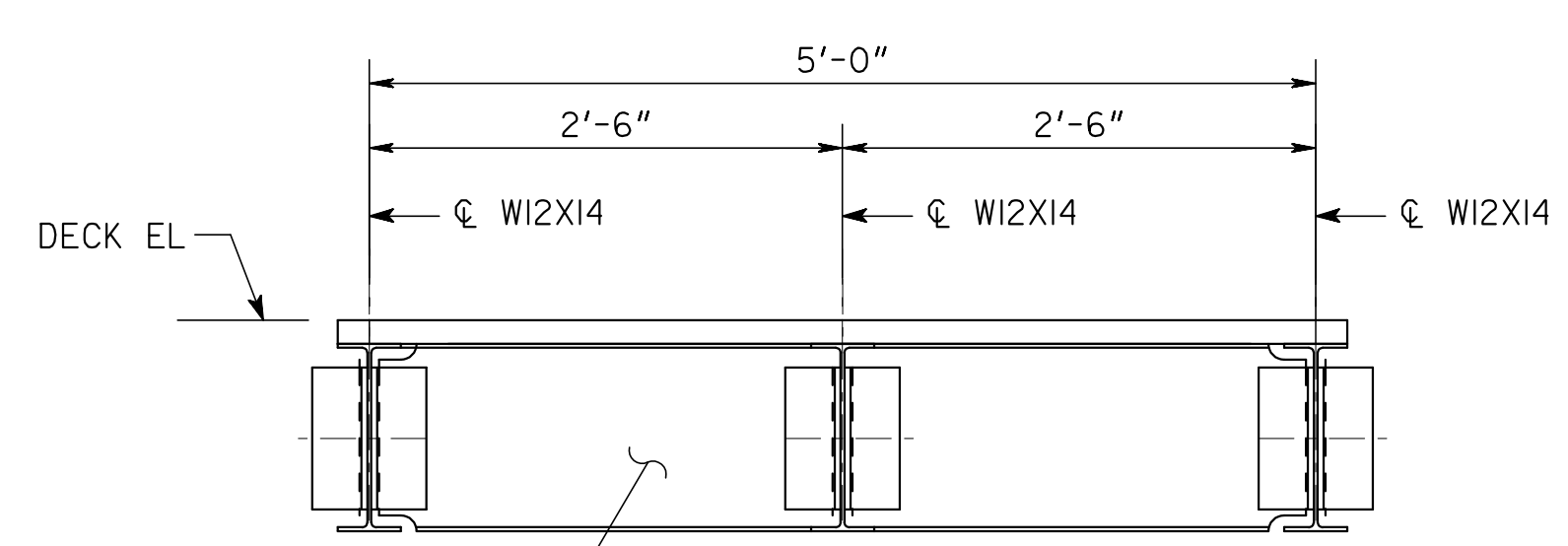
SECTION B-B



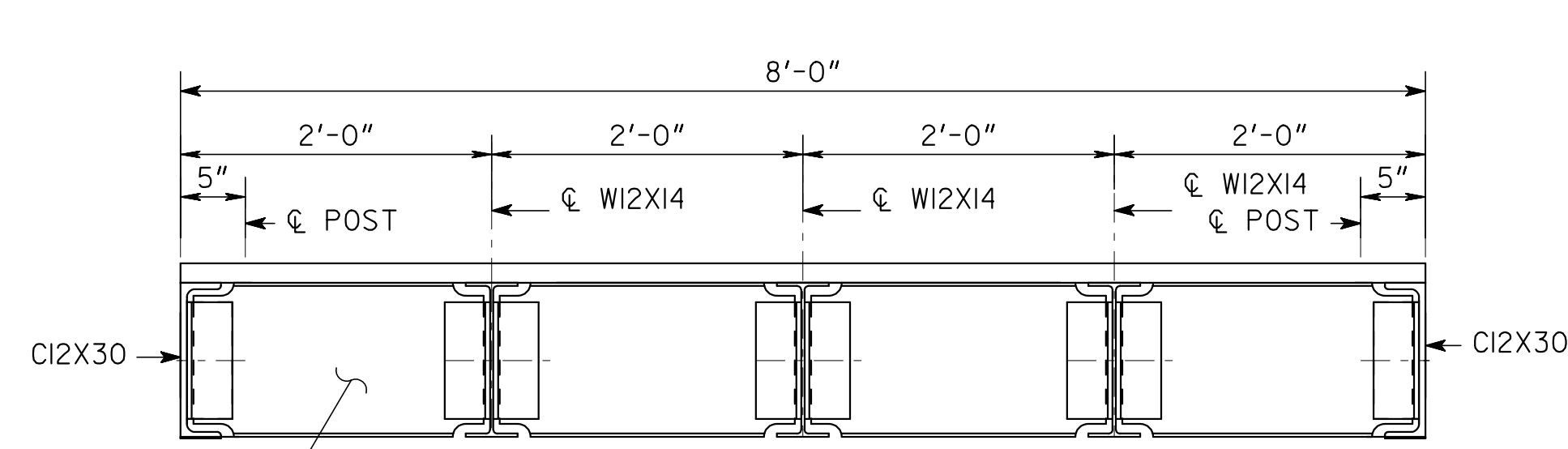
SECTION C-C



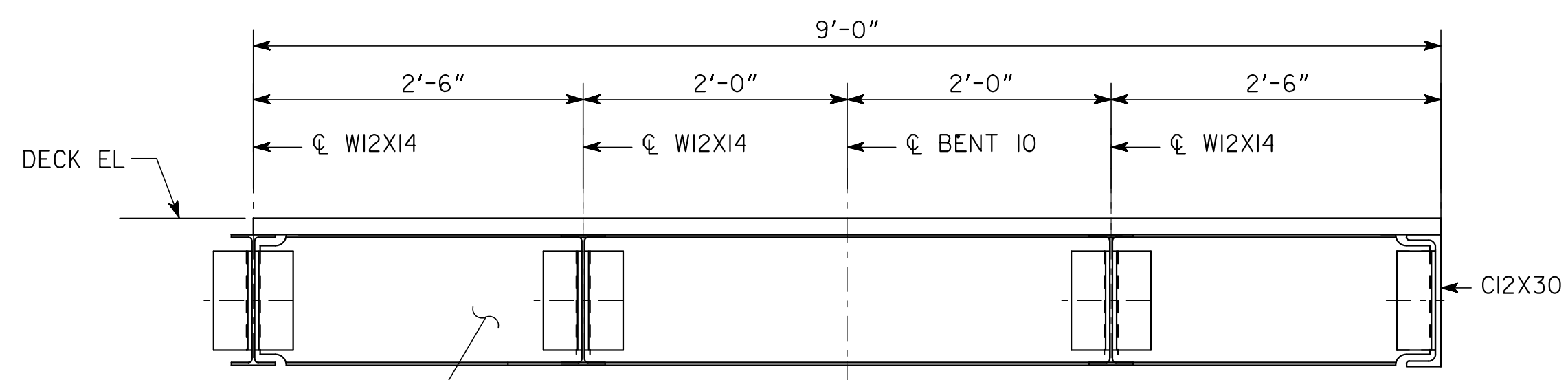
SECTION F-F



SECTION D-D



SECTION G-G



SECTION E-E

USE ON CONSTRUCTION

ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1

ATLANTA BELTLINE

WALKWAY SECTIONS
PONCE DE LEON AVENUE/ATLANTA
BELTLINE CONNECTION RAMP
FULTON COUNTY 0012586

SCALE: 1" = 1'-0" UNLESS NOTED JANUARY 2019

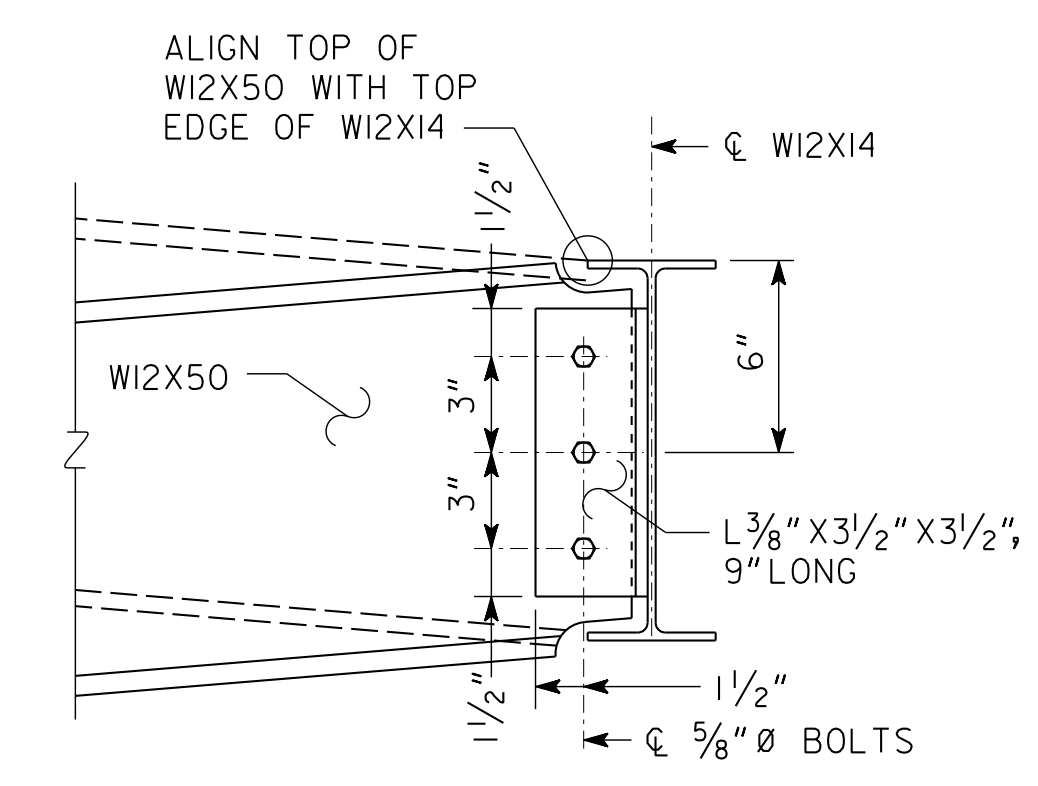
	DATE	03-11-20
	REVISIONS	
AS	REVISED STAINLESS STEEL GRATING TO ALUMINUM GRATING	

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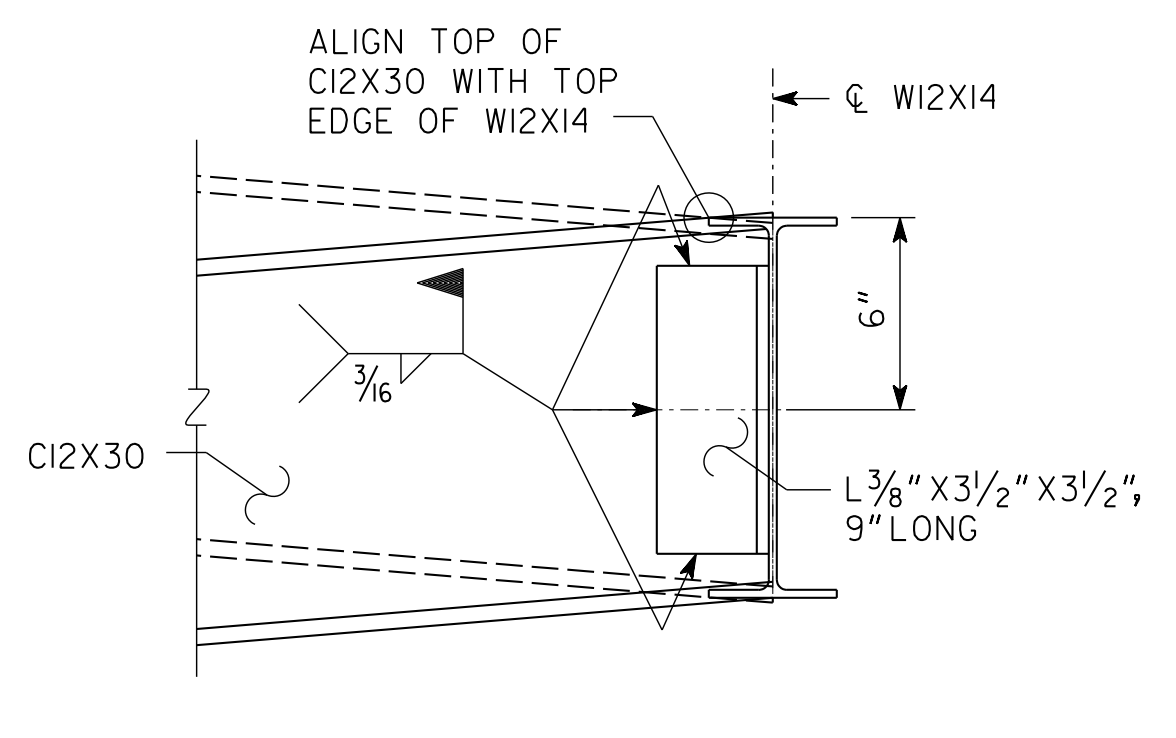
DRAWING NO. 35 - 0006
BRIDGE SHEET 6 OF 11

DESIGNED AP/UP	CHECKED AS	REVIEWED SKG
DRAWN PS	DESIGN GROUP	APPROVED WMD

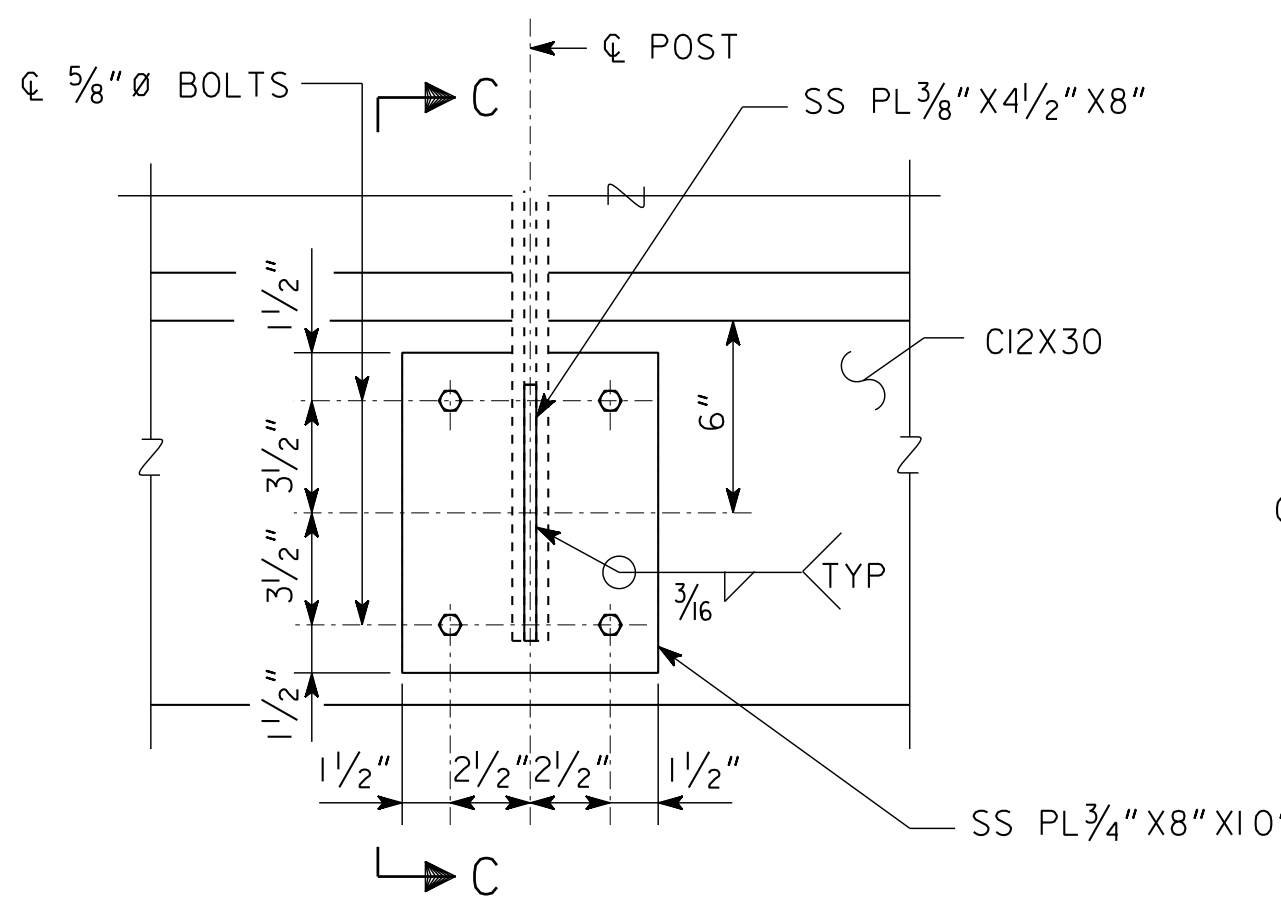
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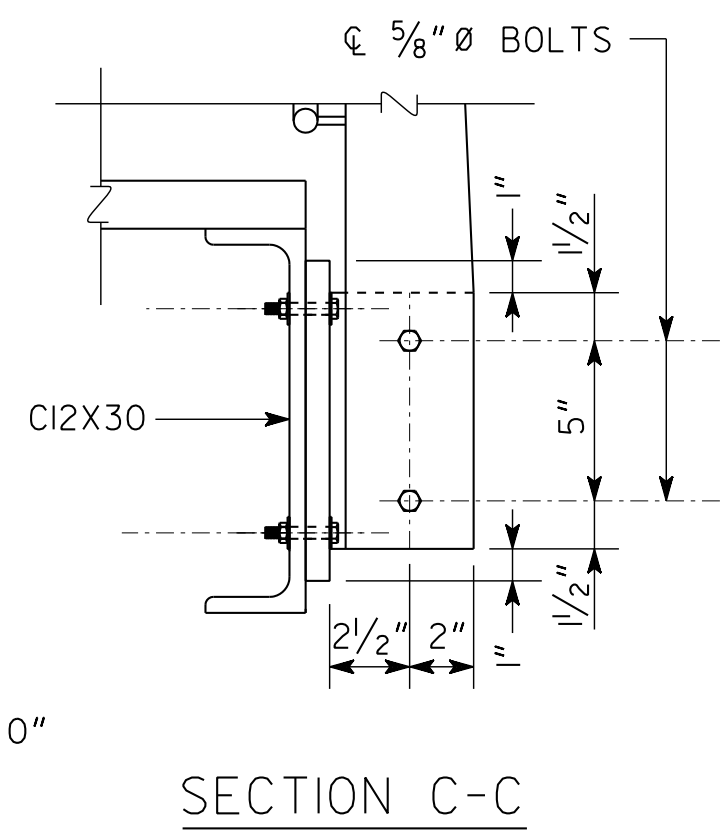
CONNECTION 1
W12X50 TO W12X14



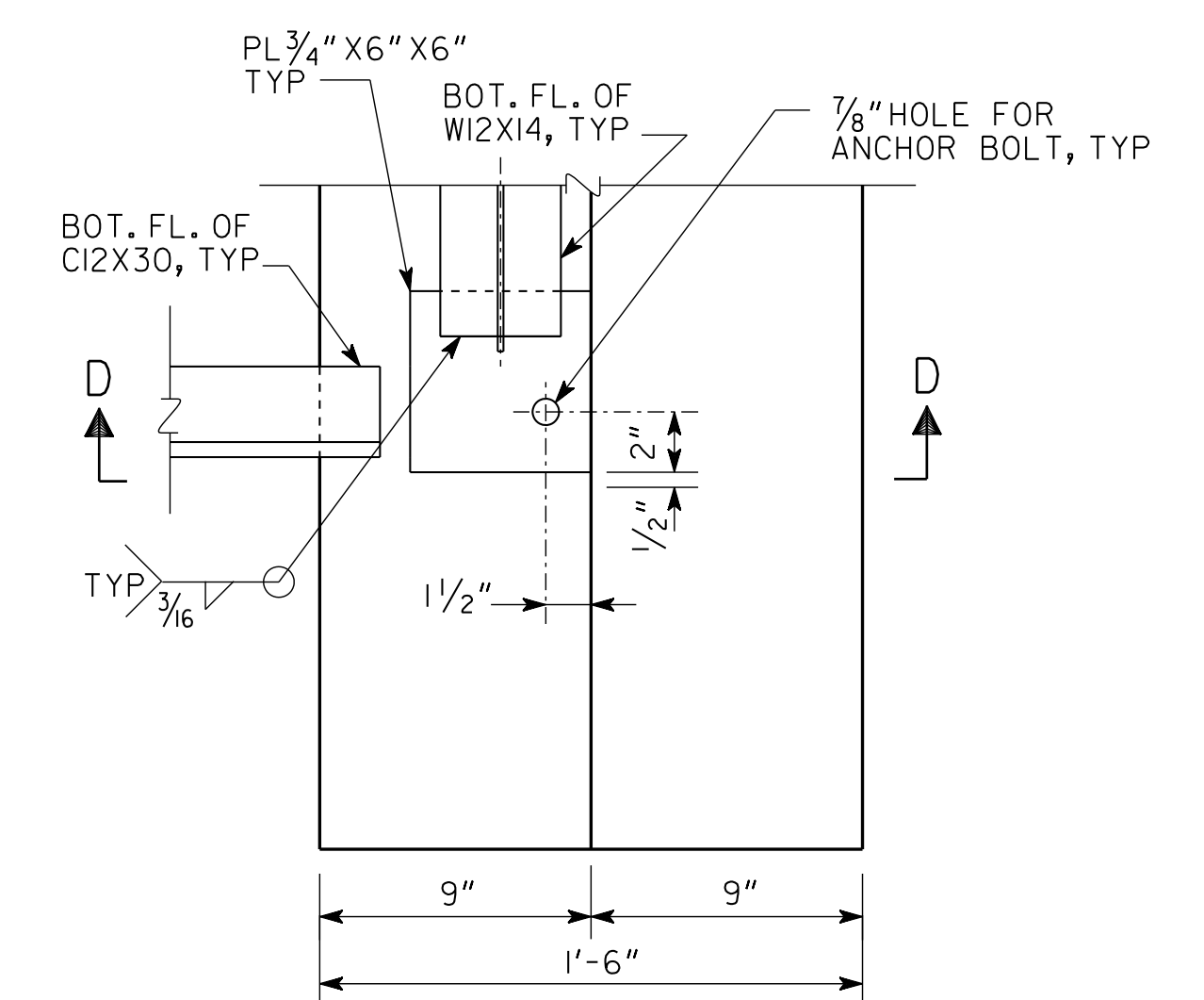
CONNECTION 2
C12X30 TO W12X14



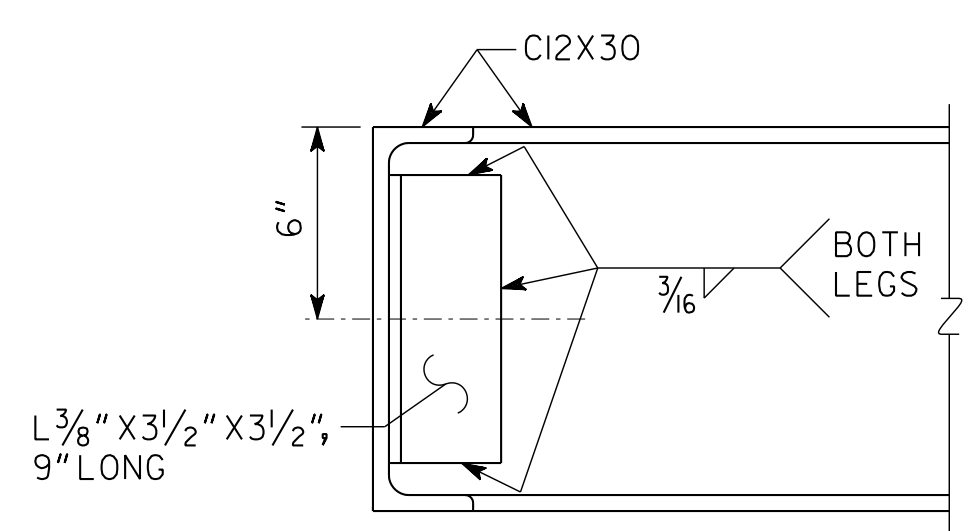
POST MOUNTING PLATE
HANDRAIL POST TO C12X30



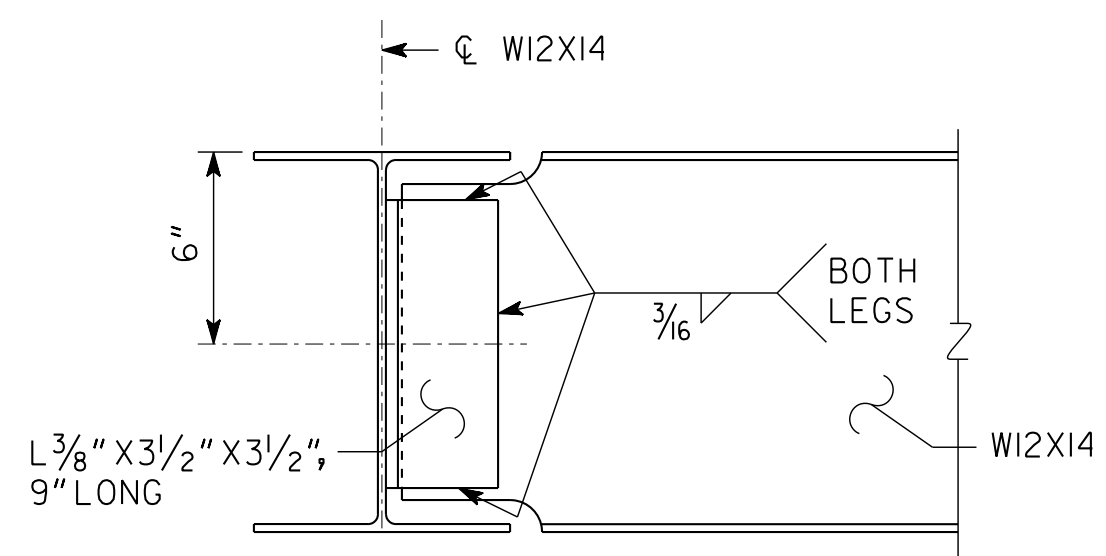
SECTION C-C



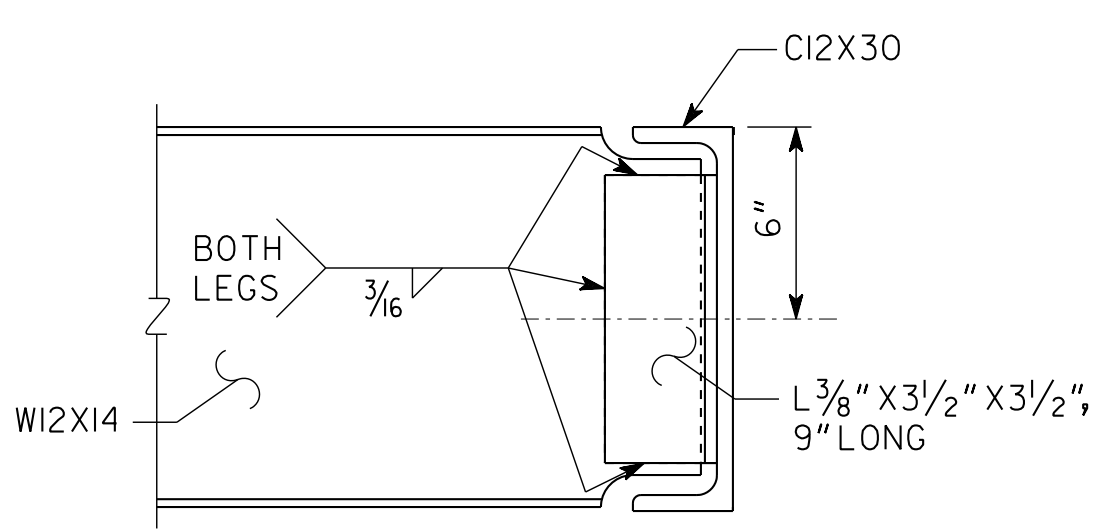
PLAN OF BENT I CONNECTION
(SYMMETRICAL AT \bar{C} WALKWAY)



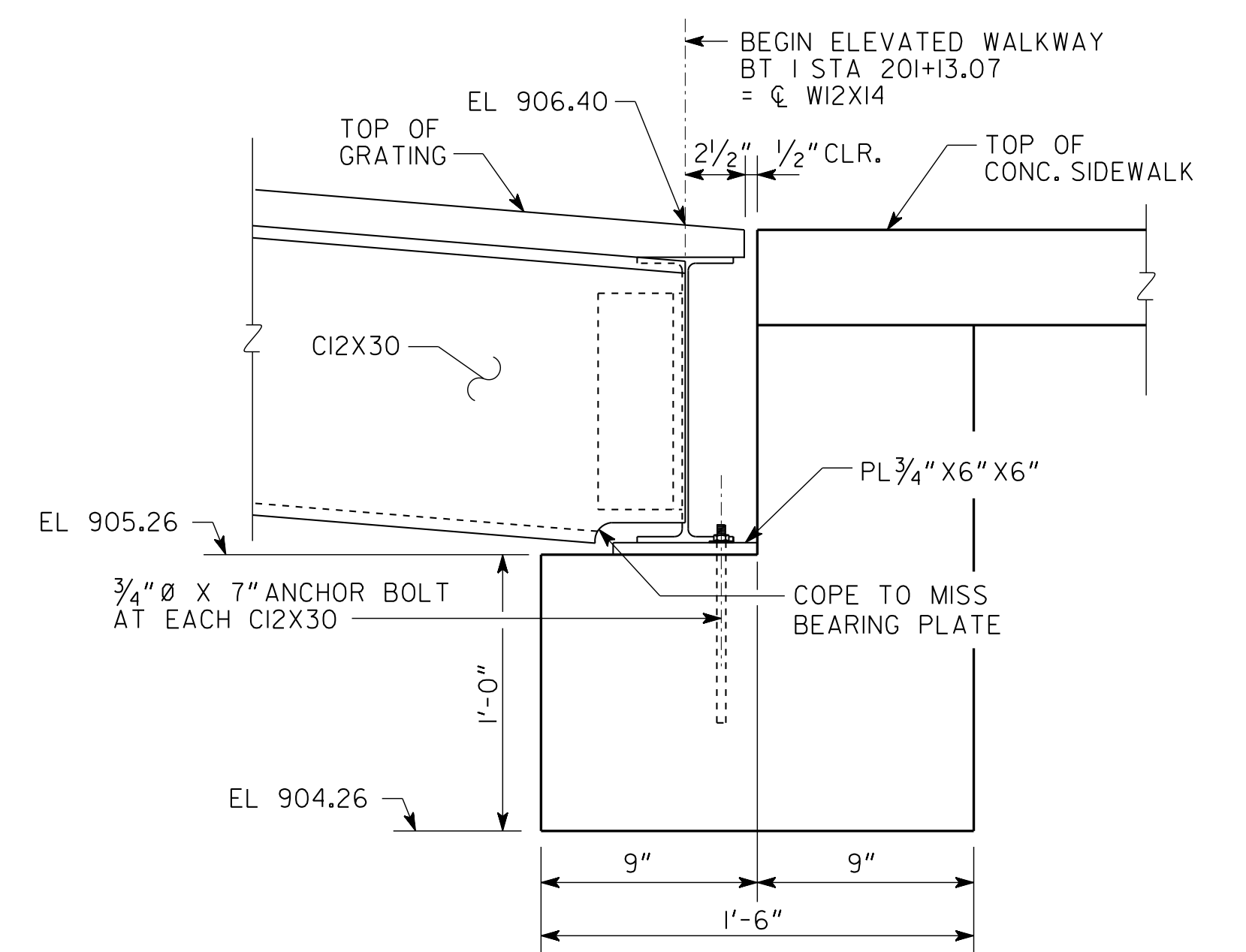
CONNECTION 3
C12X30 TO C12X30



CONNECTION 4
W12X14 TO W12X14

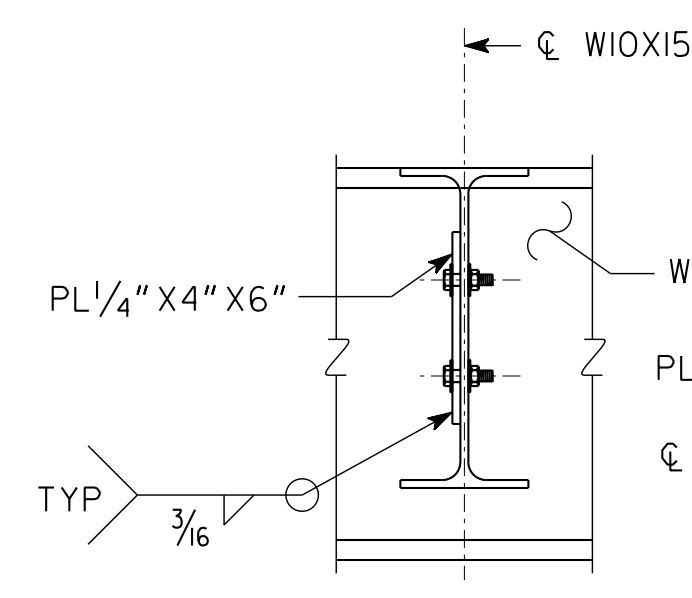


CONNECTION 5
W12X14 TO C12X30

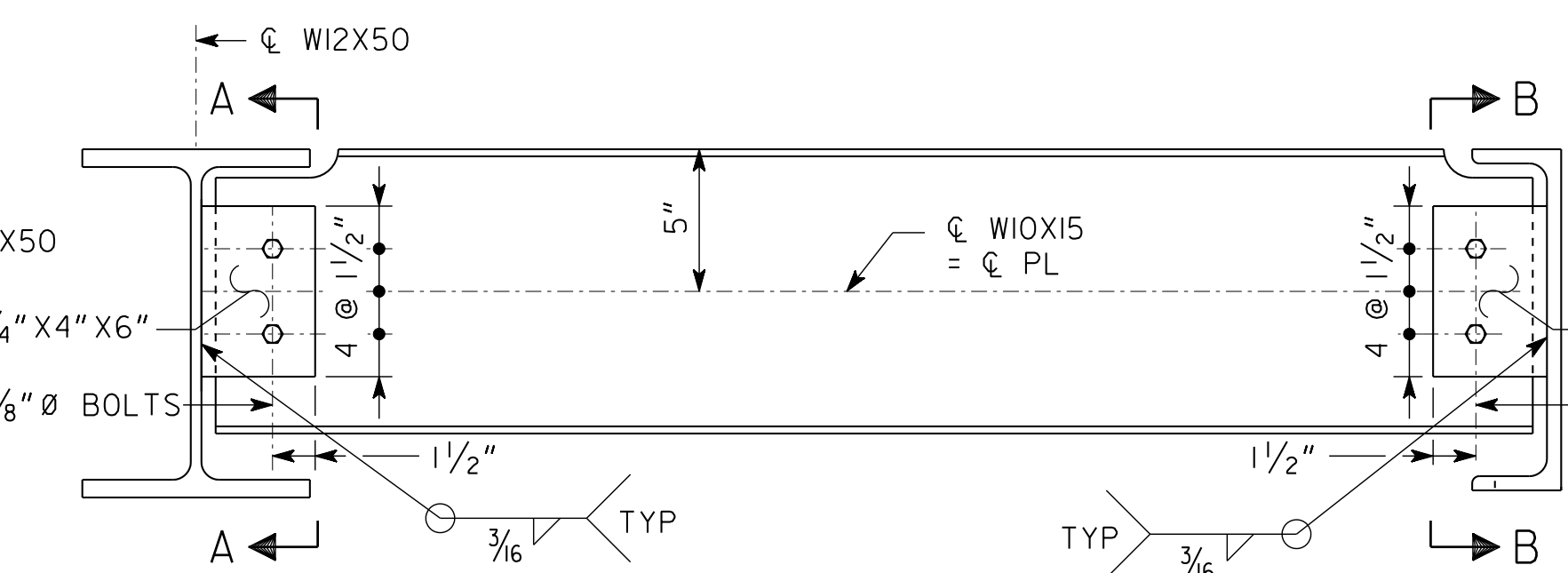


SECTION D-D

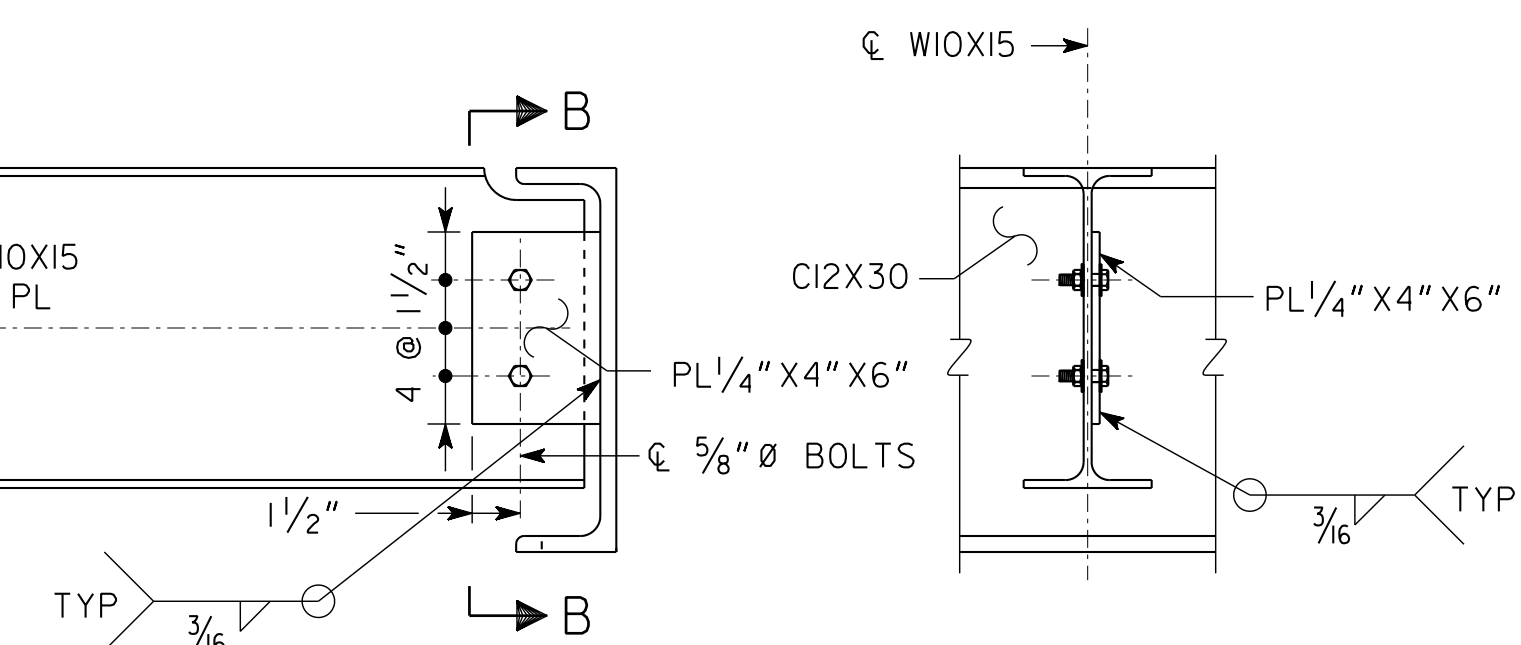
ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1



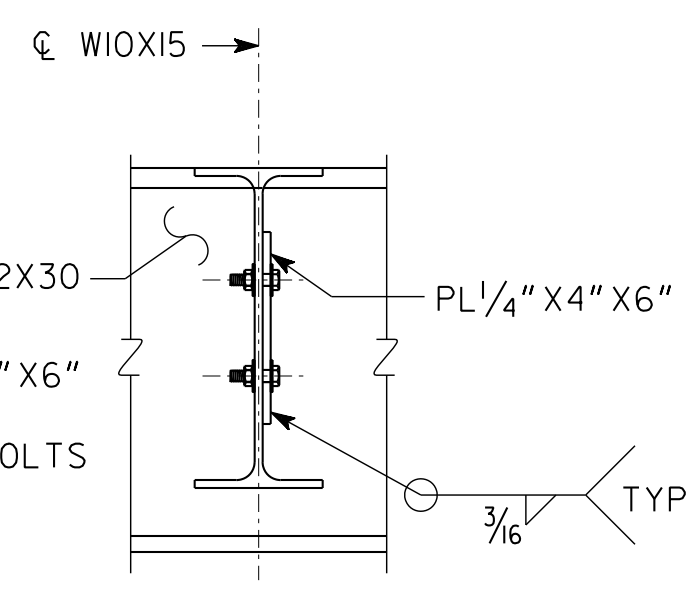
SECTION A-A



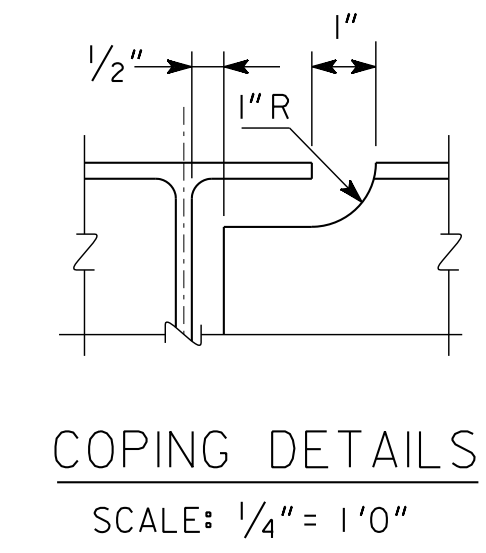
CONNECTION 6
W10X15 TO W12X50



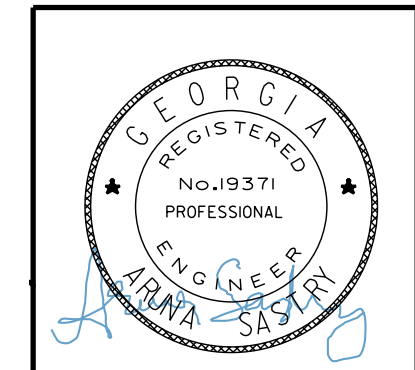
CONNECTION 7
W10X15 TO C12X30



SECTION B-B



COPING DETAILS
SCALE: 1/4" = 1'-0"



DATE	REVISIONS

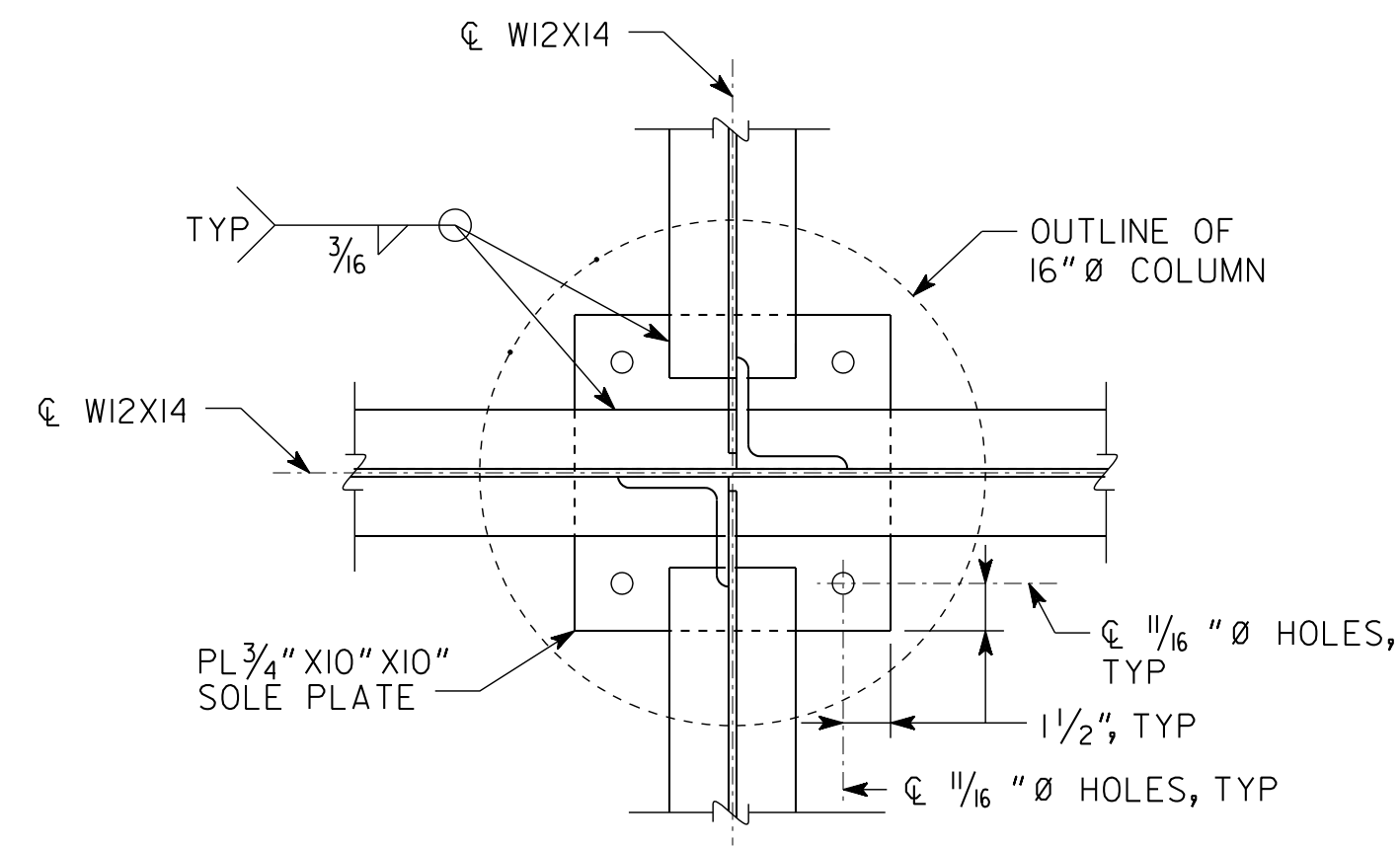
ATLANTA BELTLINE		
CONNECTION DETAILS PONCE DE LEON AVENUE/ATLANTA BELTLINE CONNECTION RAMP FULTON COUNTY		
		0012586
SCALE: 1/2" = 1'-0" UNLESS NOTED		JANUARY 2019
DESIGNED	AP/UP	CHECKED
DRAWN	PS	AS
		DESIGN GROUP
		REVIEWED
		SKG
		APPROVED
		WMD

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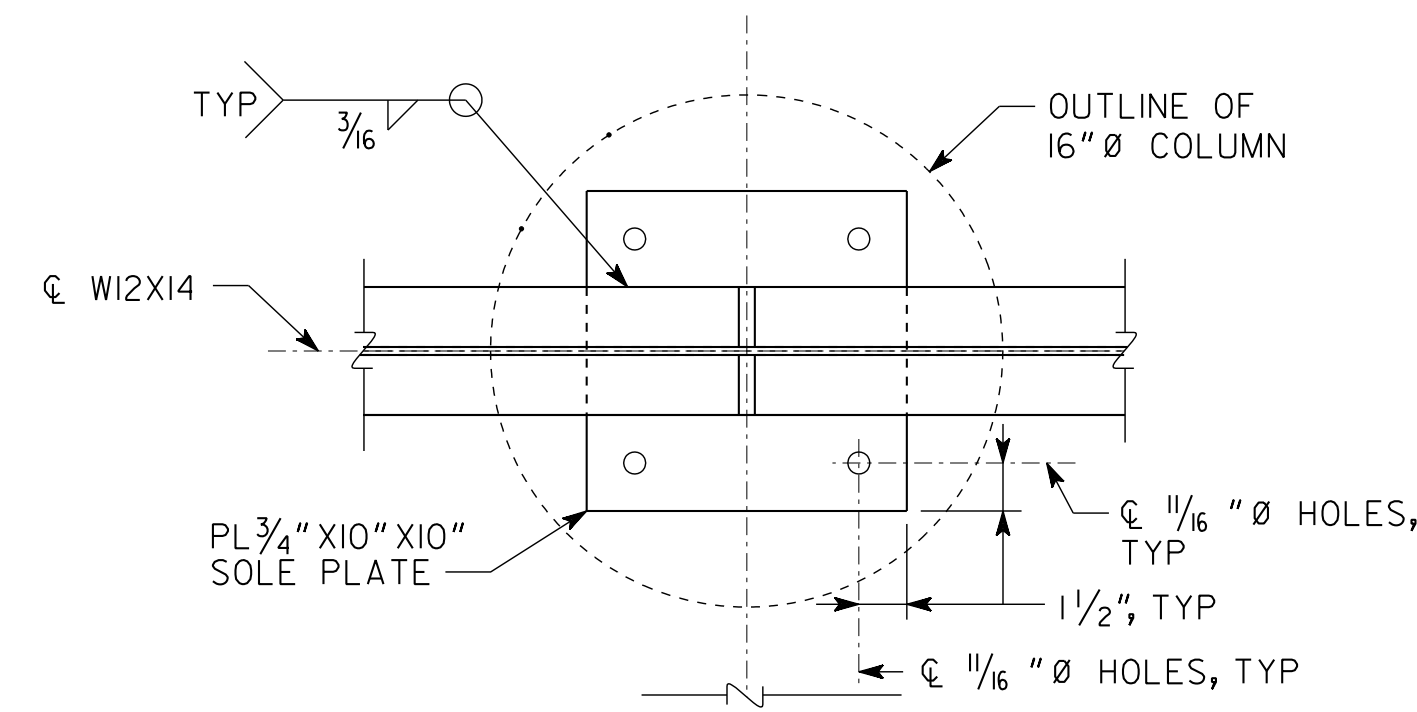
DRAWING NO. 35 - 0007
BRIDGE SHEET 7 OF 11

1 INCH WHEN PRINTED FULL SIZE

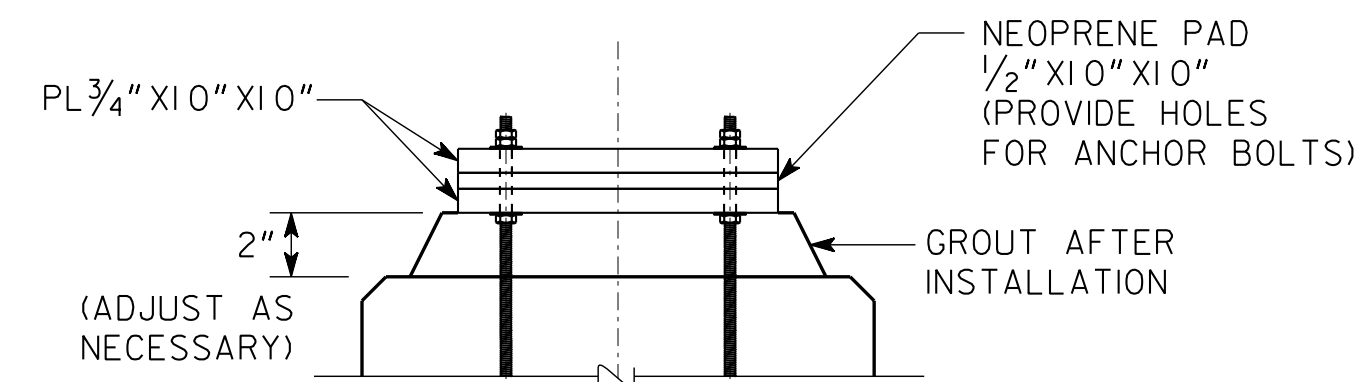
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0012586		



PLAN AT RAMPS
SOLE PLATE TO W12X14



PLAN AT STAIRS
SOLE PLATE TO W12X14




ELEVATION
SOLE PLATE AND BEARING PLATE

NOTES:

- ALL ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE ASTM A276 TYPE 304.

ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1

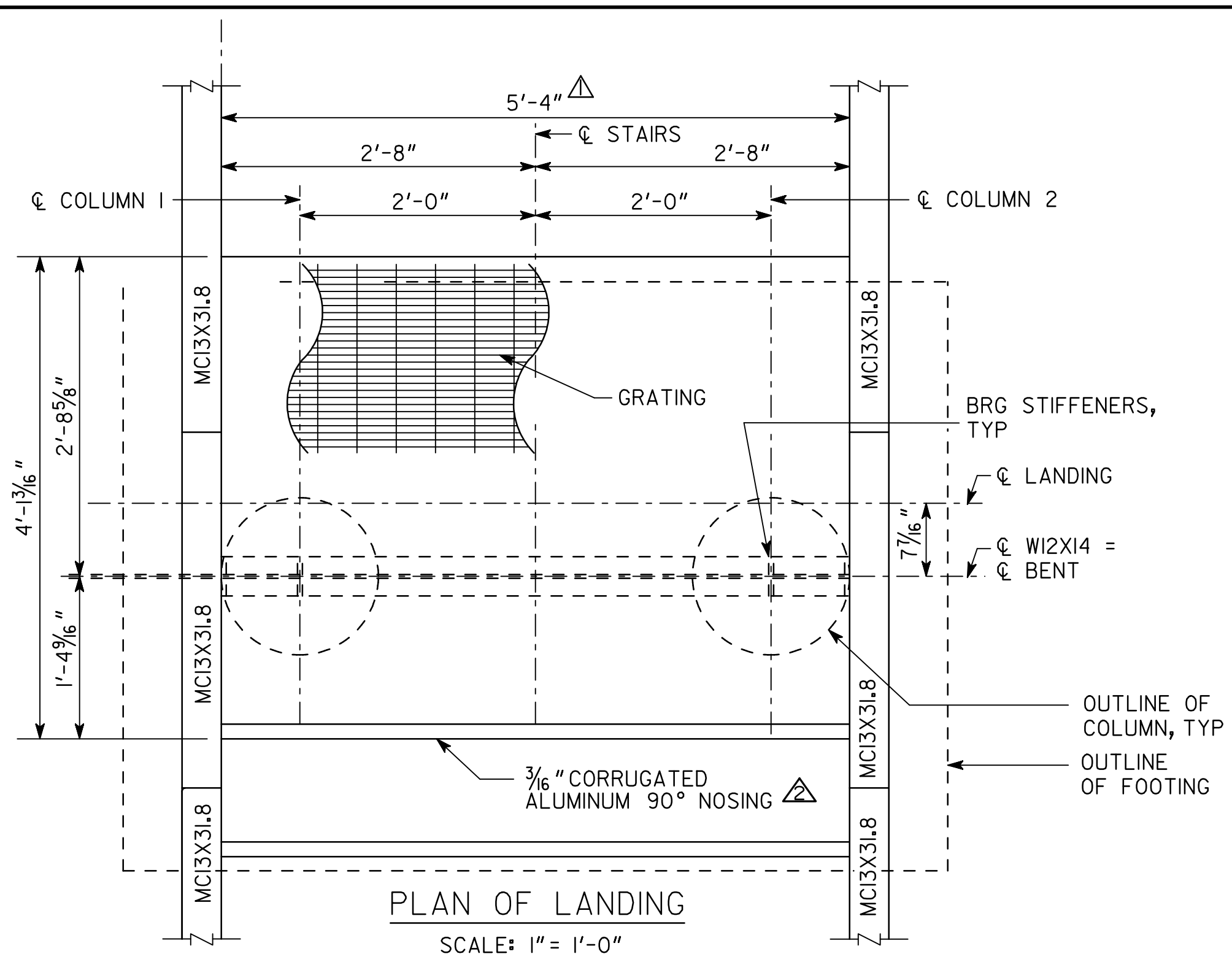
 01-18-2019	DATE		ATLANTA BELTLINE	
	REVISIONS		BEARING ASSEMBLIES PONCE DE LEON AVENUE/ATLANTA BELTLINE CONNECTION RAMP FULTON COUNTY 0012586	
DRAWING NO. 35 - 0008			SCALE: 1/2" = 1'-0" UNLESS NOTED	JANUARY 2019
BRIDGE SHEET 8 OF 11	BY		DESIGNED AP/UP	CHECKED AS
			DRAWN PS	DESIGN GROUP
				REVIEWED SKG
				APPROVED WMD

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ALPHARETTA, GA 30022
PHONE: 678-366-9375

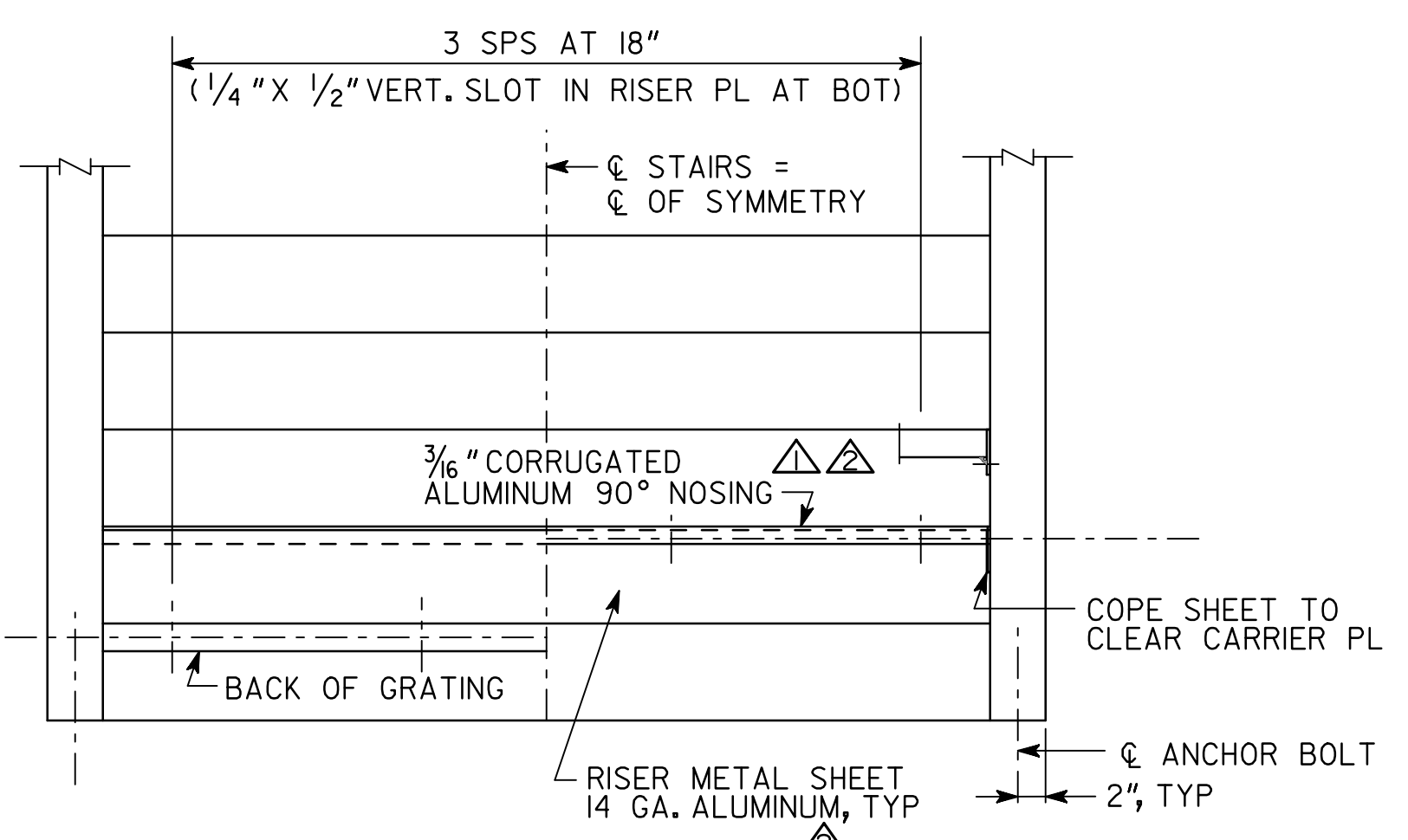
1 INCH WHEN PRINTED FULL SIZE

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0012586		

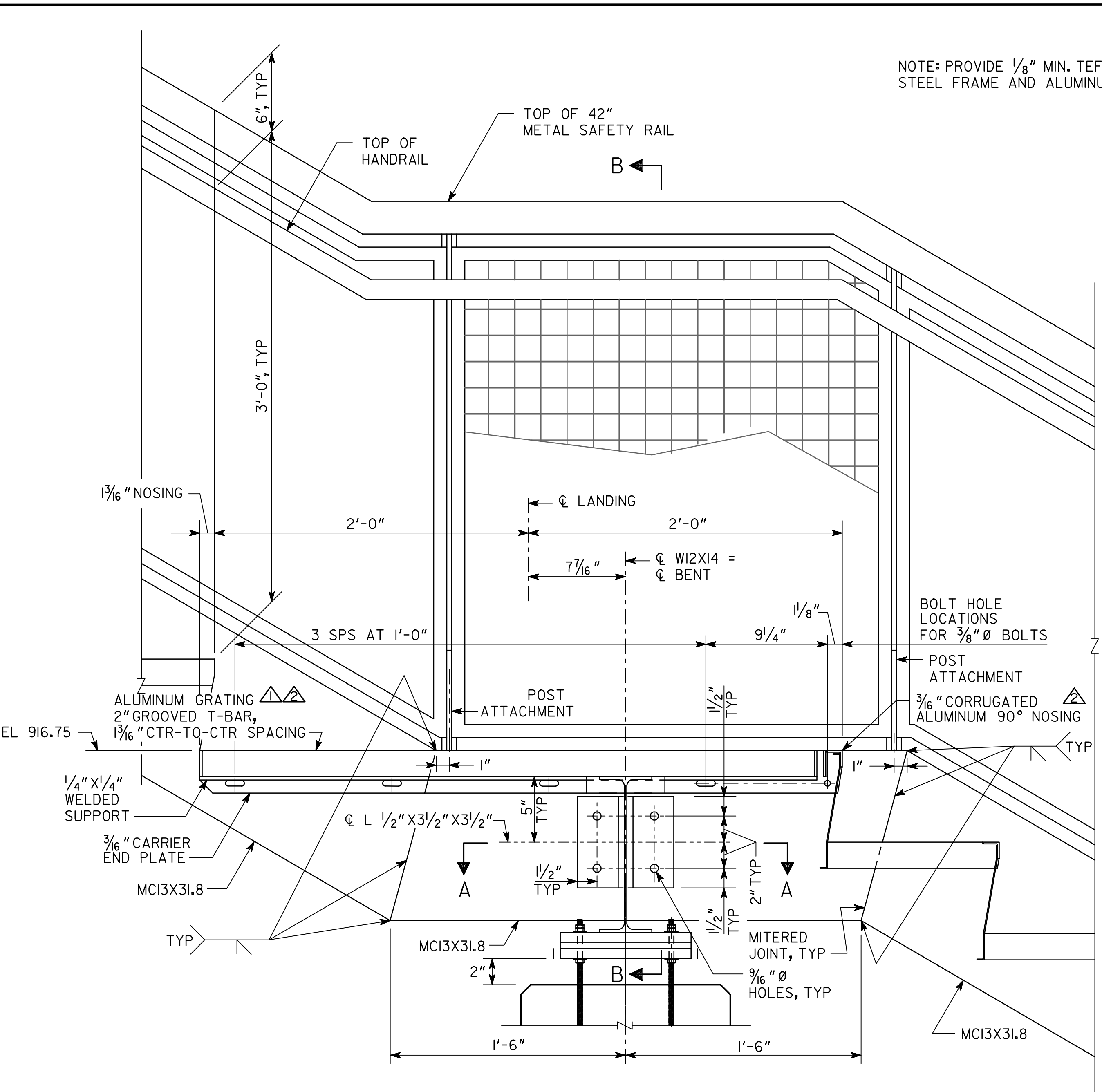
USE ON CONSTRUCTION



PLAN OF LANDING
SCALE: 1" = 1'-0"

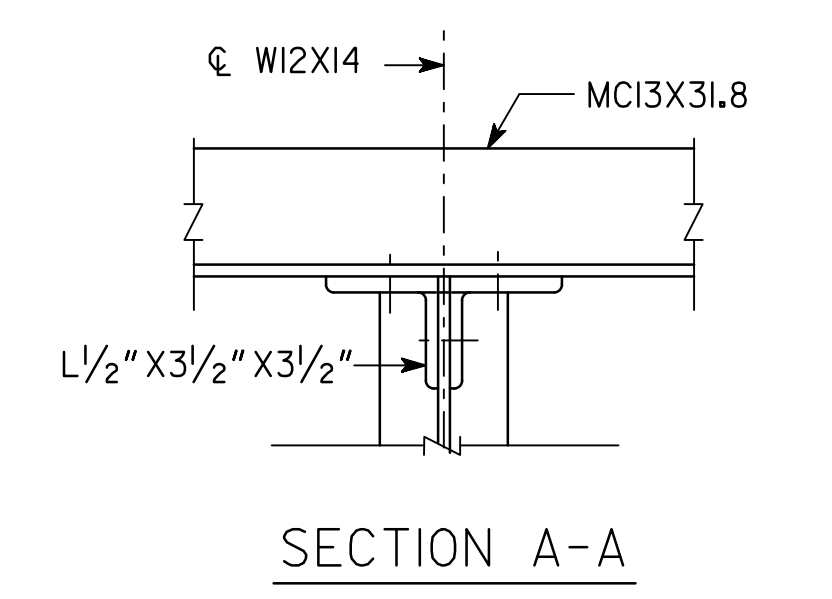


FRONT ELEVATION
SCALE: 1" = 1'-0"

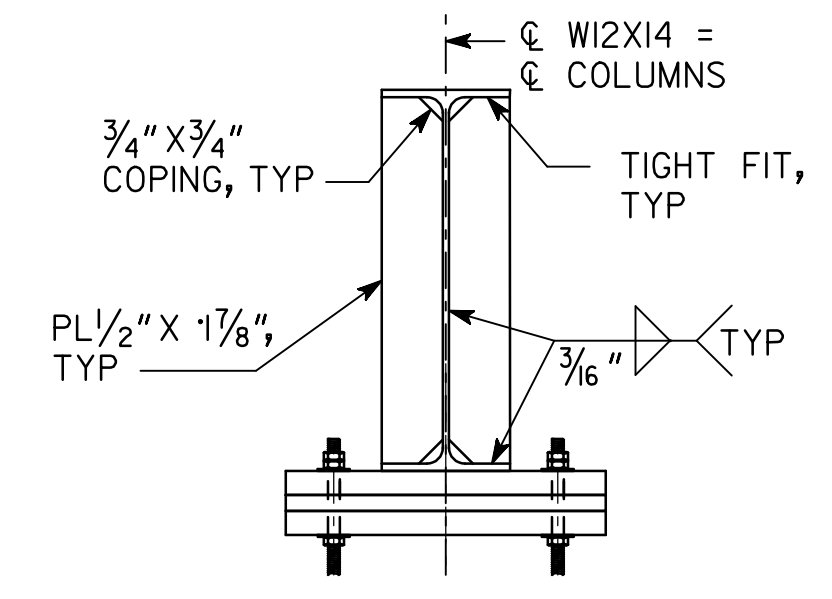


LANDING DETAILS

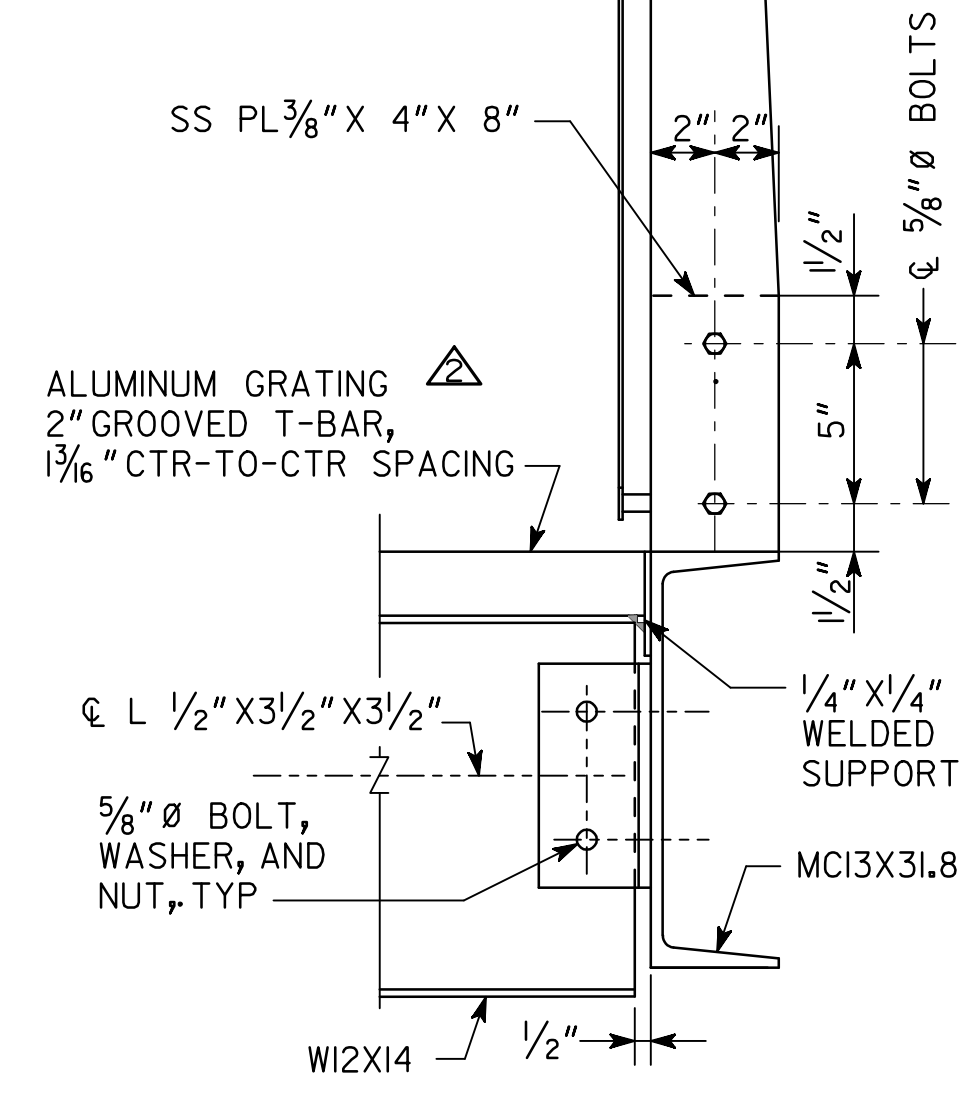
FOR STAINLESS STEEL RAILING, SEE SHEET 38-001
FOR BEARING ASSEMBLY, SEE BEARING ASSEMBLY DETAILS SHEET



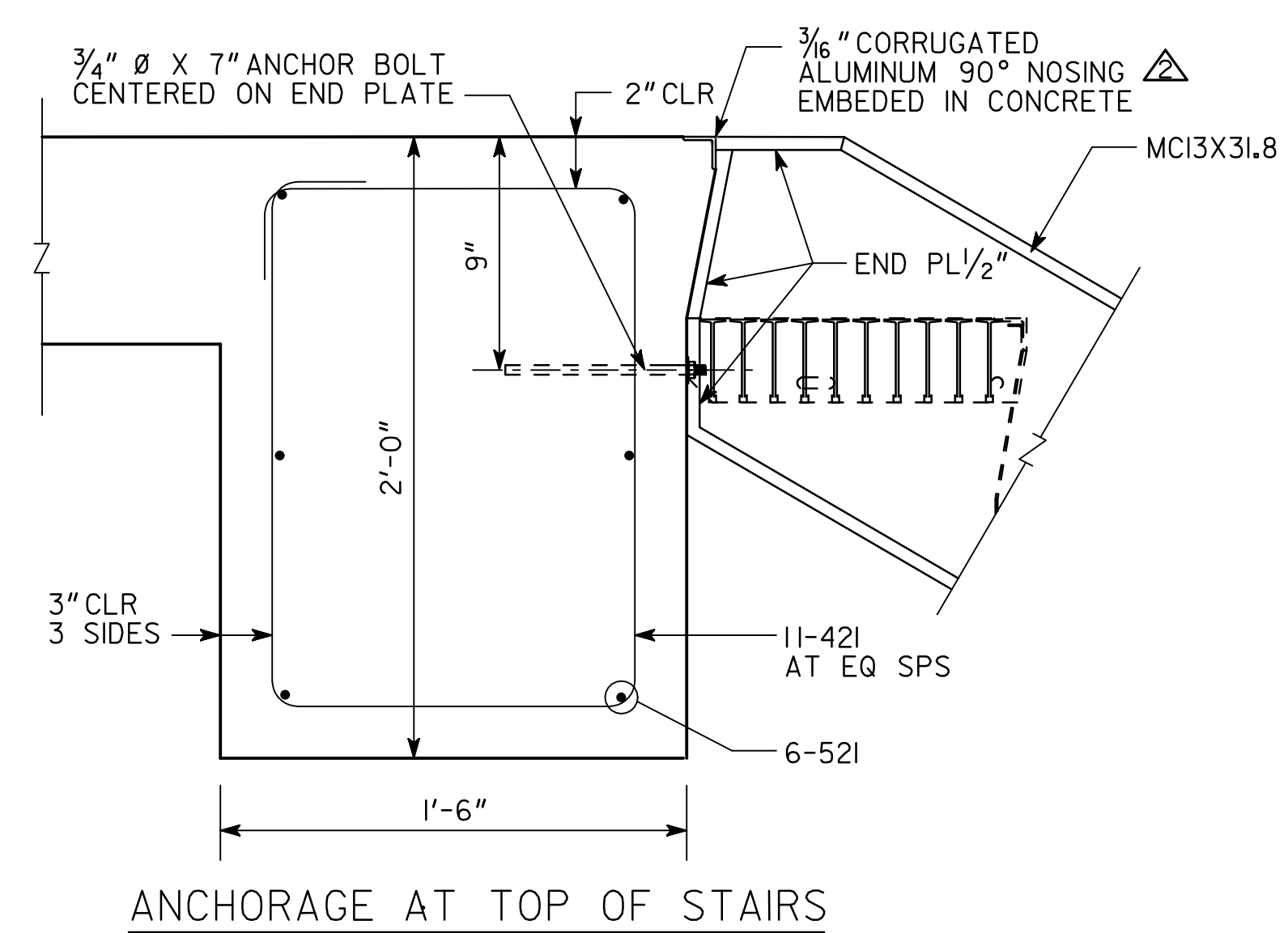
SECTION A-A



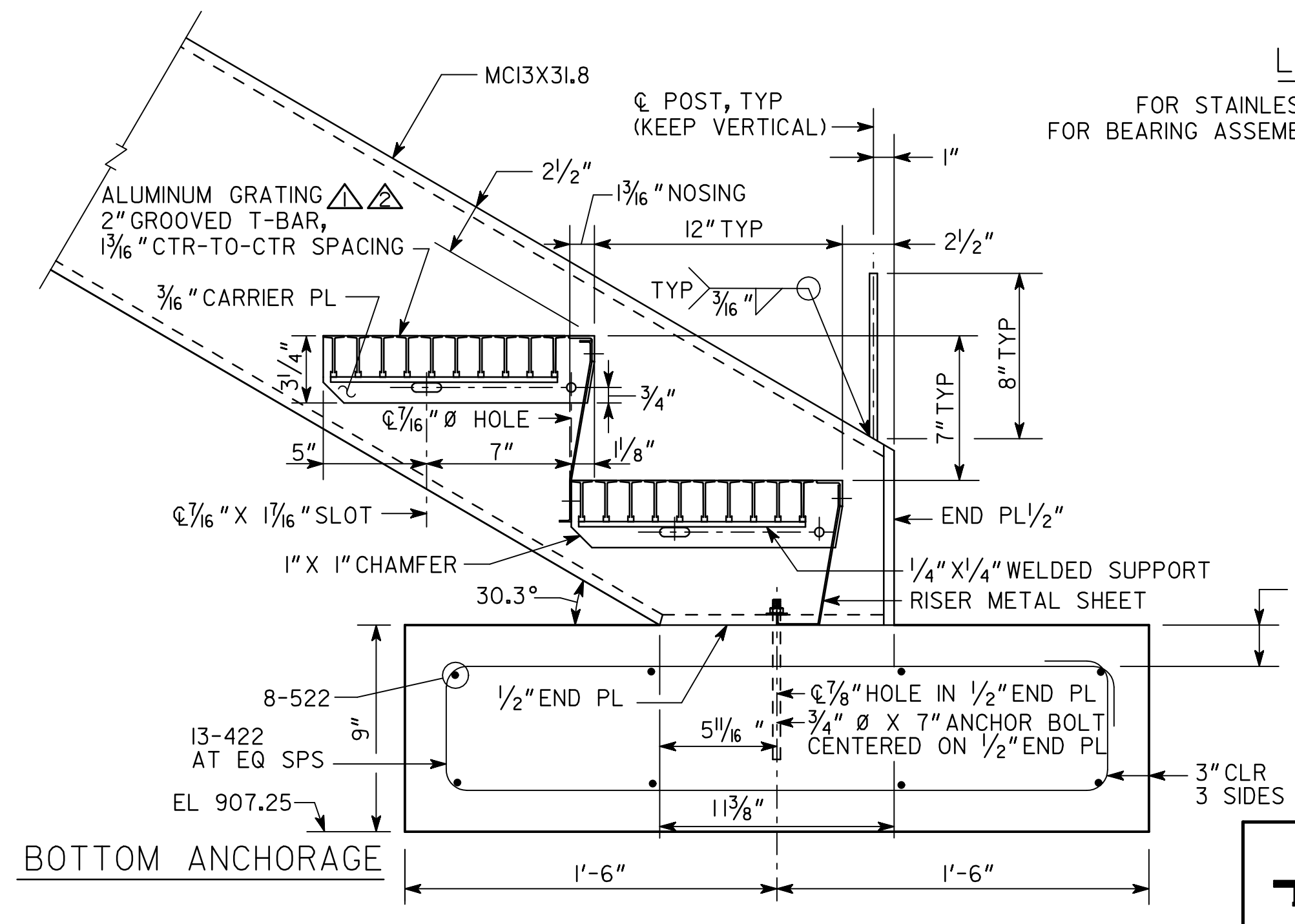
BRG. STIFFENER DETAILS



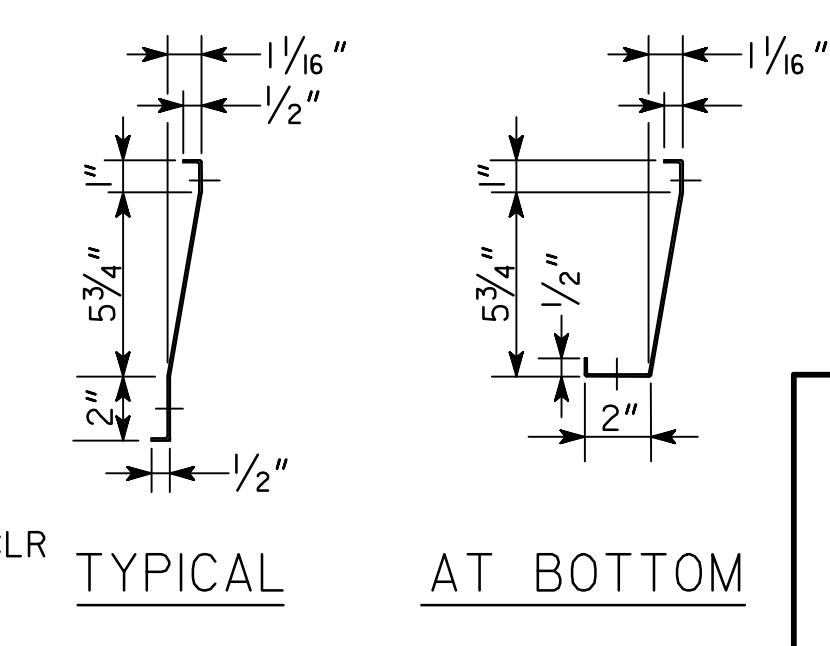
SECTION B-B



ANCHORAGE AT TOP OF STAIRS



BOTTOM ANCHORAGE



TYPICAL AT BOTTOM

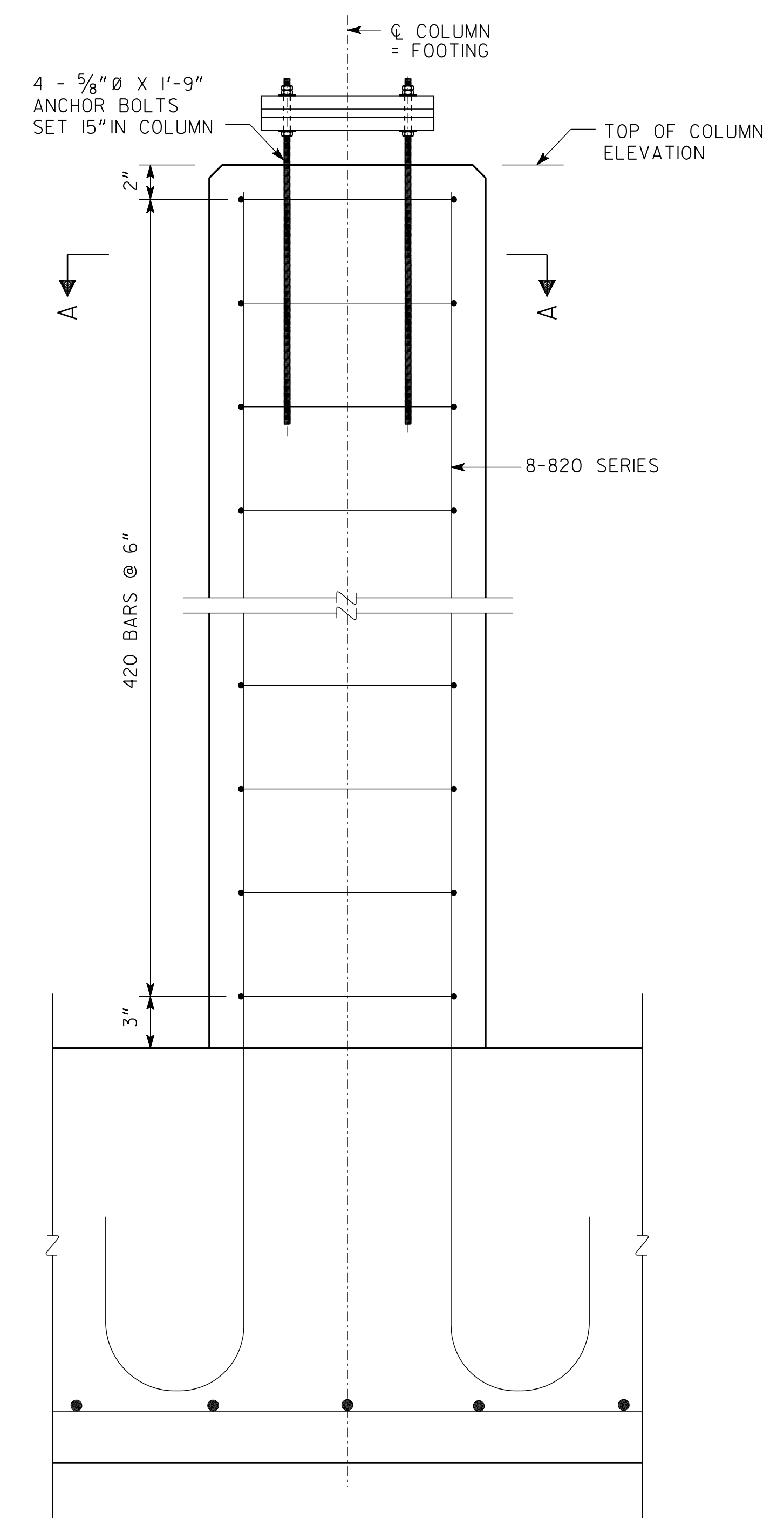
RISER SHEET METALS
14 GA. ALUMINUM

	DATE	03/11/20
	REVISIONS	05/28/21
BY	REVISIONS	DATE
AS	REV. STAINLESS STEEL GRATING TO ALUMINUM GRATING	03/11/20
AS	REV. WIDTH & GRATING	05/28/21
01-18-2019 DRAWING NO. 35 - 0009 BRIDGE SHEET 9 OF 11		

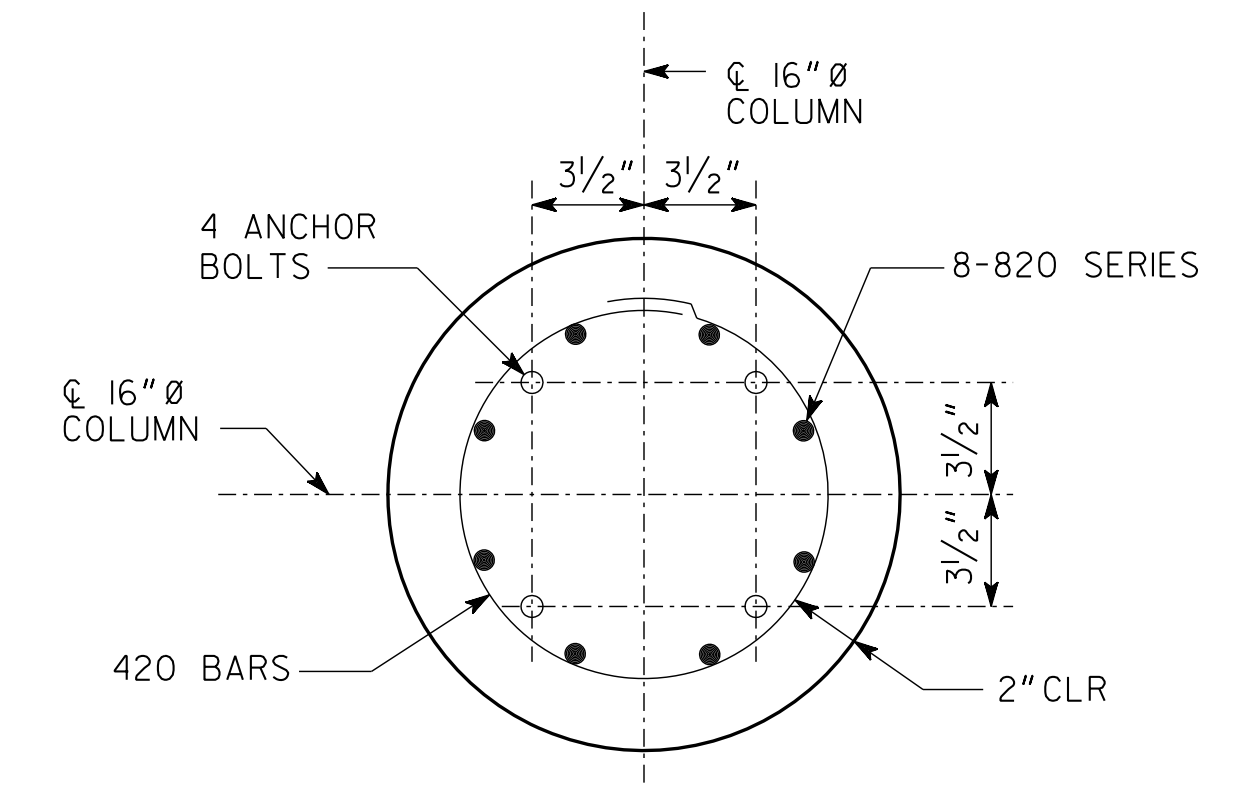
S & A SASTRY & ASSOCIATES, INC.
11030 JONES BRIDGE ROAD, SUITE 201
ALPHARETTA, GA 30022
PHONE: 678-366-9375

ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1 ATLANTA BELTLINE STAIRS DETAILS PONCE DE LEON AVENUE/ATLANTA BELTLINE CONNECTION RAMP FULTON COUNTY 0012586		
SCALE: 1/2" = 1'-0" U. N. O. JANUARY 2019		
DESIGNED AP/UP	CHECKED AS	REVIEWED SKG
DRAWN PS	DESIGN GROUP	APPROVED WMD

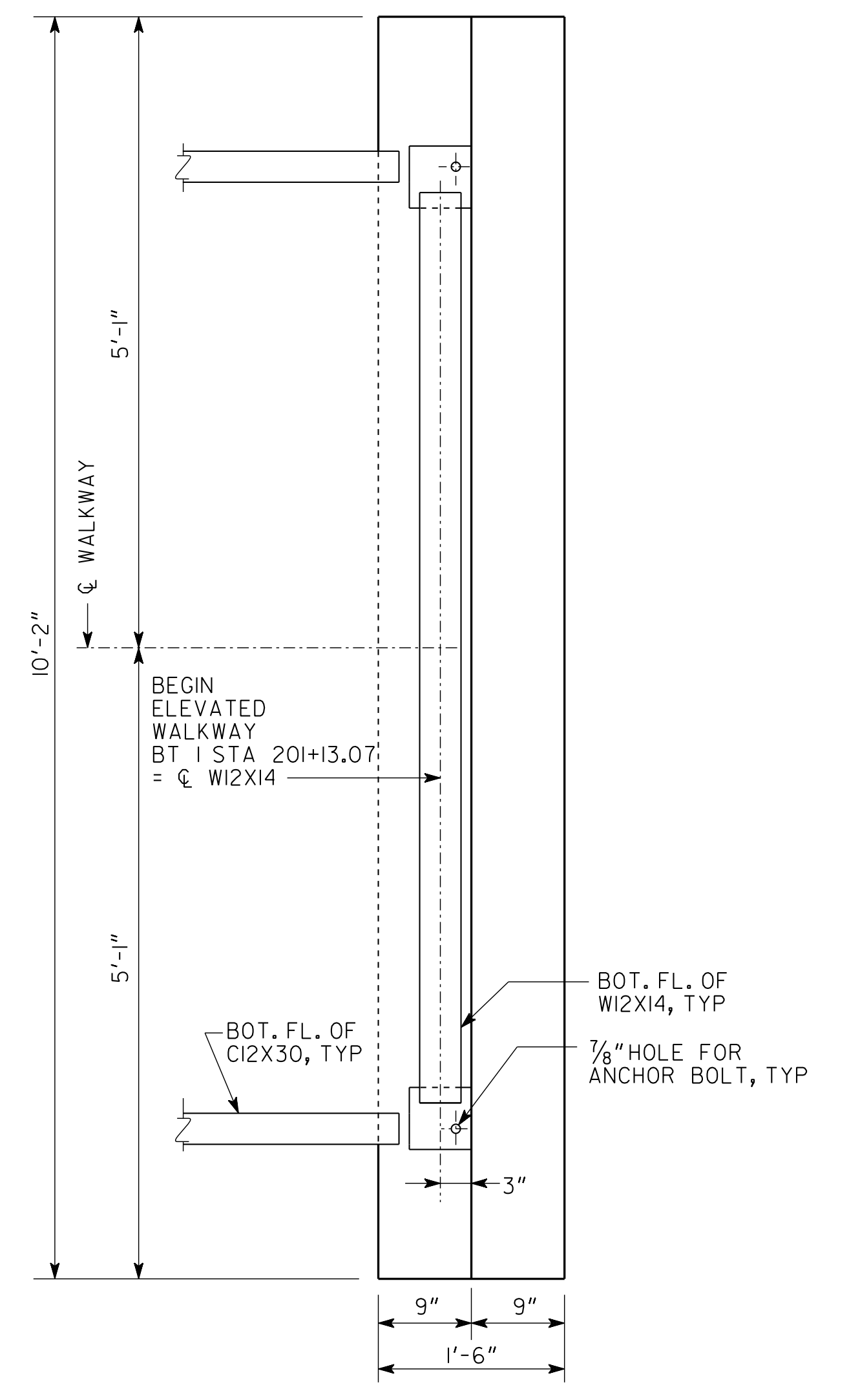
1 INCH WHEN PRINTED FULL SIZE



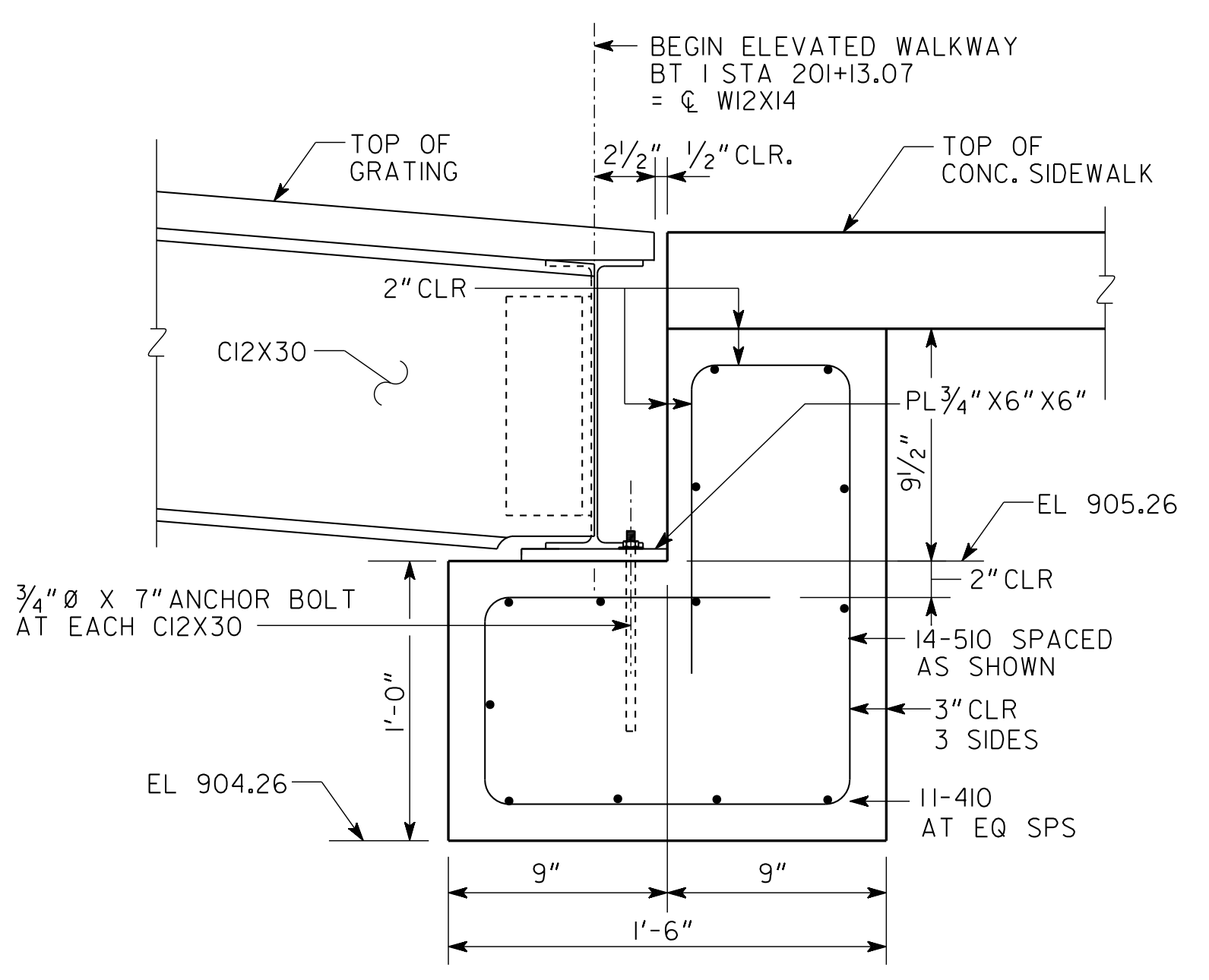
COLUMN DETAILS
SCALE: 1/2" = 1'-0"



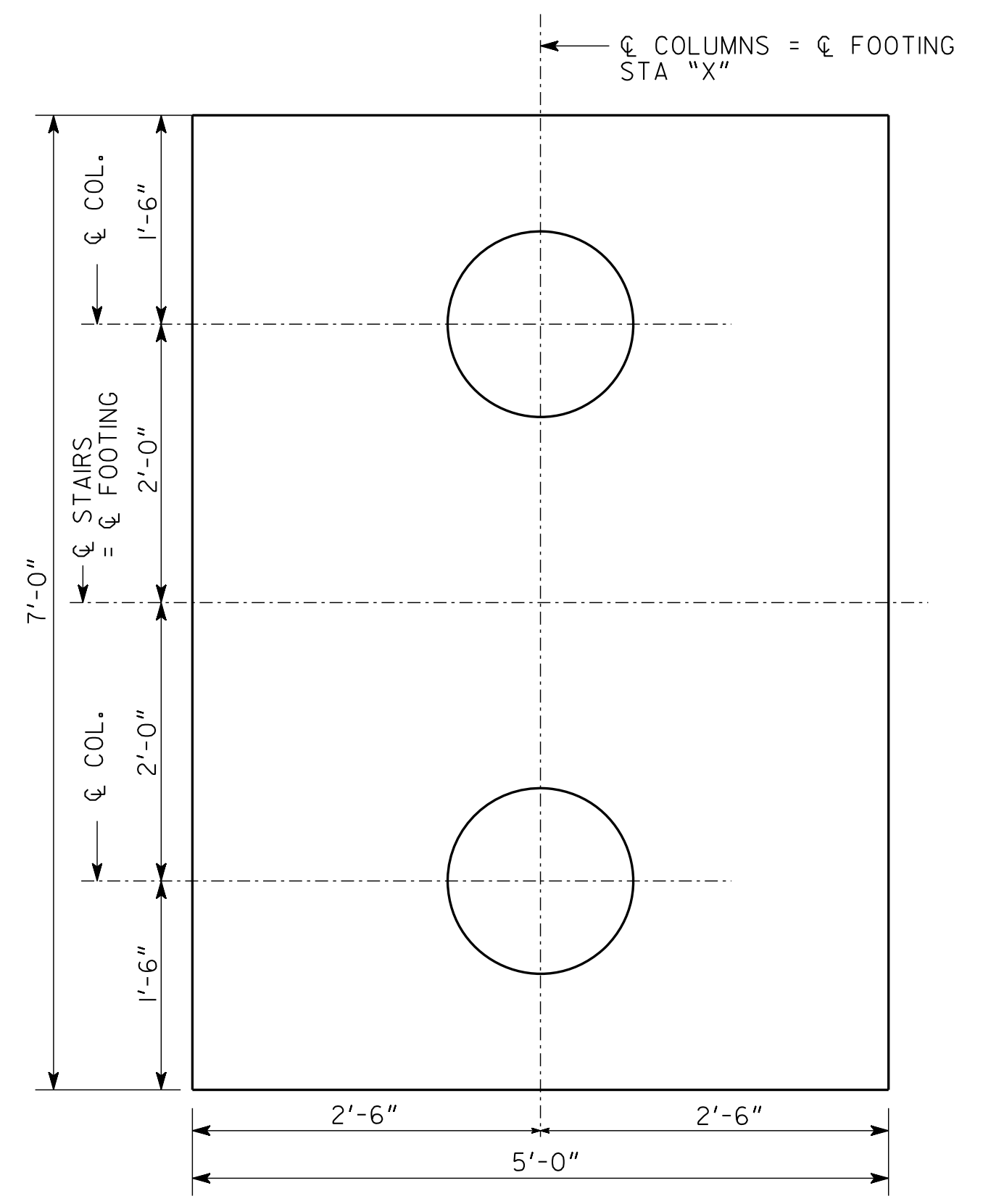
SECTION A-A
SCALE: 1/2" = 1'-0"



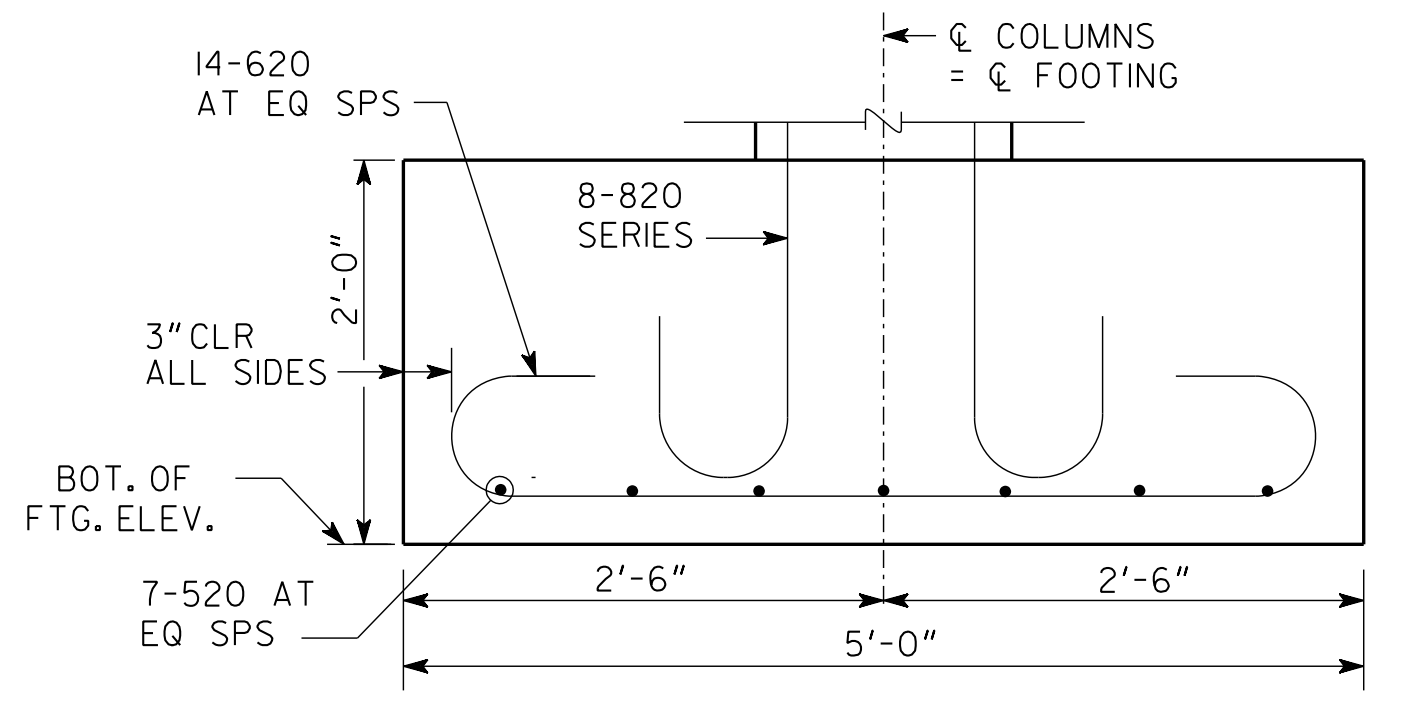
BENT 1 FOOTING PLAN



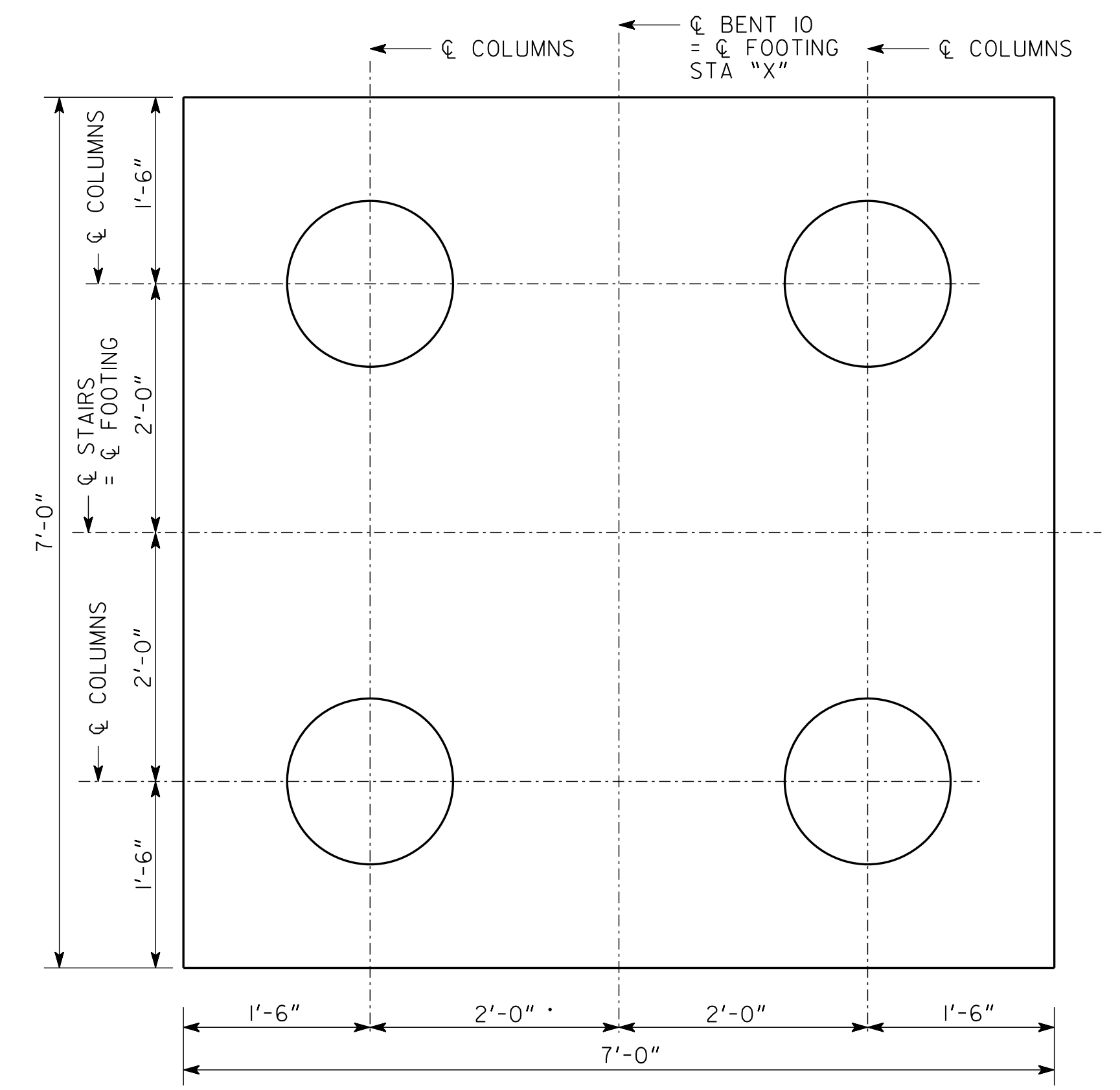
BENT 1 FOOTING SECTION
SCALE: 1/2" = 1'-0"



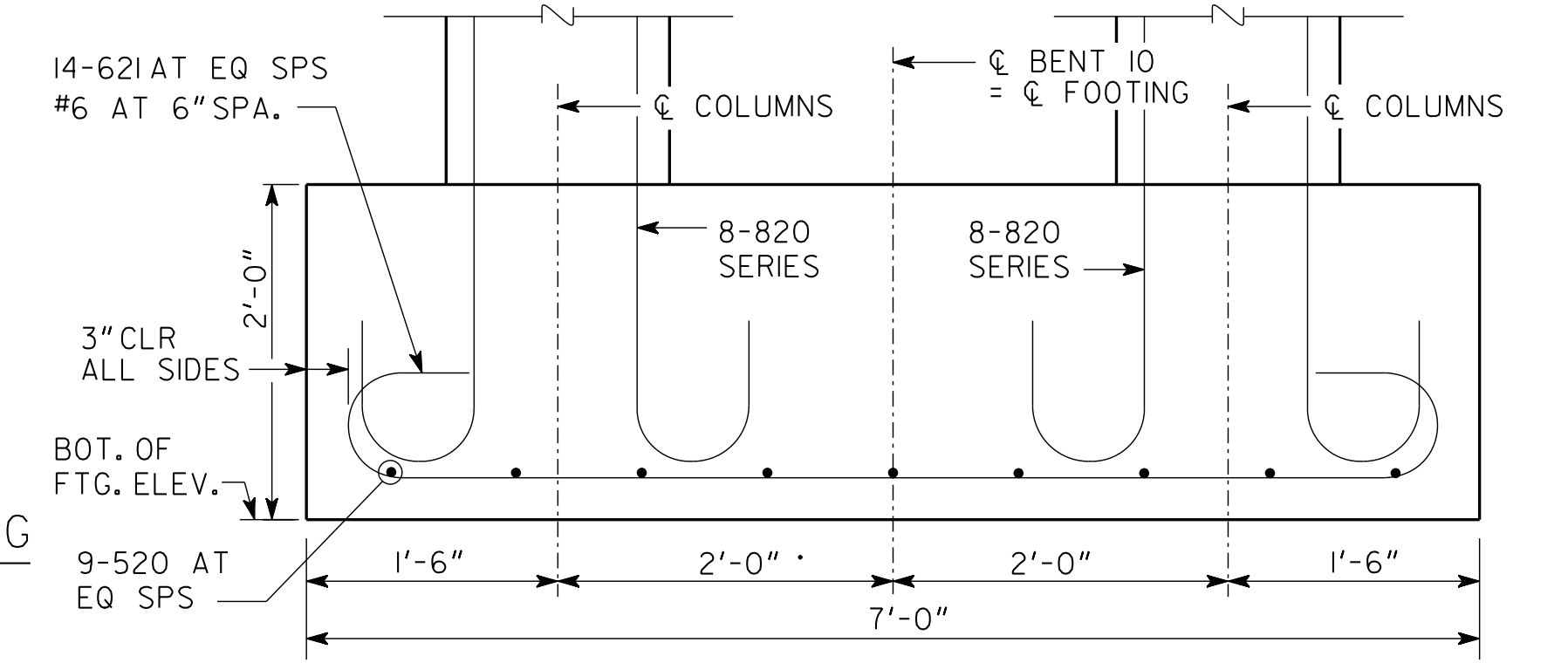
PLAN - BENTS 2 THRU 9 AND STAIRS FOOTING
(BENT 5 REQUIRES 2 FOOTINGS)



ELEVATION - BENTS 2 THRU 9 AND STAIRS FOOTING



PLAN - BENT 10 FOOTING

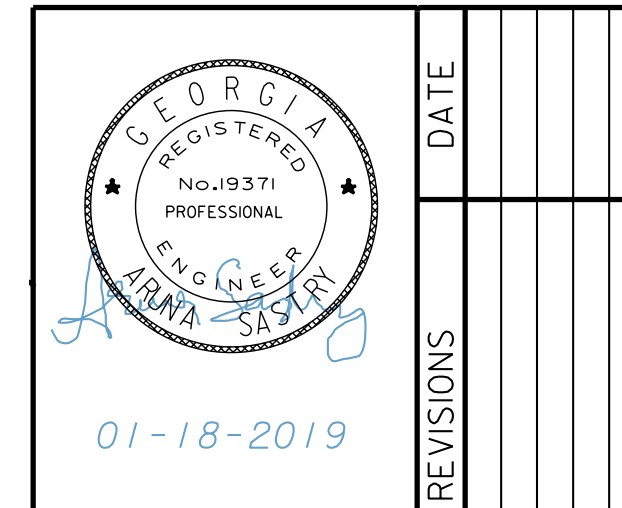


ELEVATION - BENT 10 FOOTING

BENT	STATION "X"	OFFSET	TOP/COL ELEV	BOTTOM/FTG. ELEV
1	STA 201+13.07	24.00' RT	905.26' *	904.26'±
2	STA 201+45.57	24.00' RT	907.40'	900.00'±
3	STA 201+80.57	24.00' RT	909.83'	900.00'±
4	STA 202+15.57	24.00' RT	912.26'	897.89'±
5 LT	STA 202+30.57	24.00' RT	912.94'	896.48'±
5 RT	STA 202+30.57	33.00' RT	912.94'	896.48'±
6	STA 202+15.57	33.00' RT	913.63'	897.89'±
7	STA 201+80.57	33.00' RT	916.06'	900.00'±
8	STA 201+45.57	33.00' RT	918.49'	900.00'±
9	STA 201+10.57	33.00' RT	920.92'	902.00'±
10	STA 200+73.57	33.00' RT	923.27'	899.51'±
STAIRS	STA 200+52.40	114.74' RT	915.26'	903.00'±

* BENT 1 CAP SEAT ELEVATION.

ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1



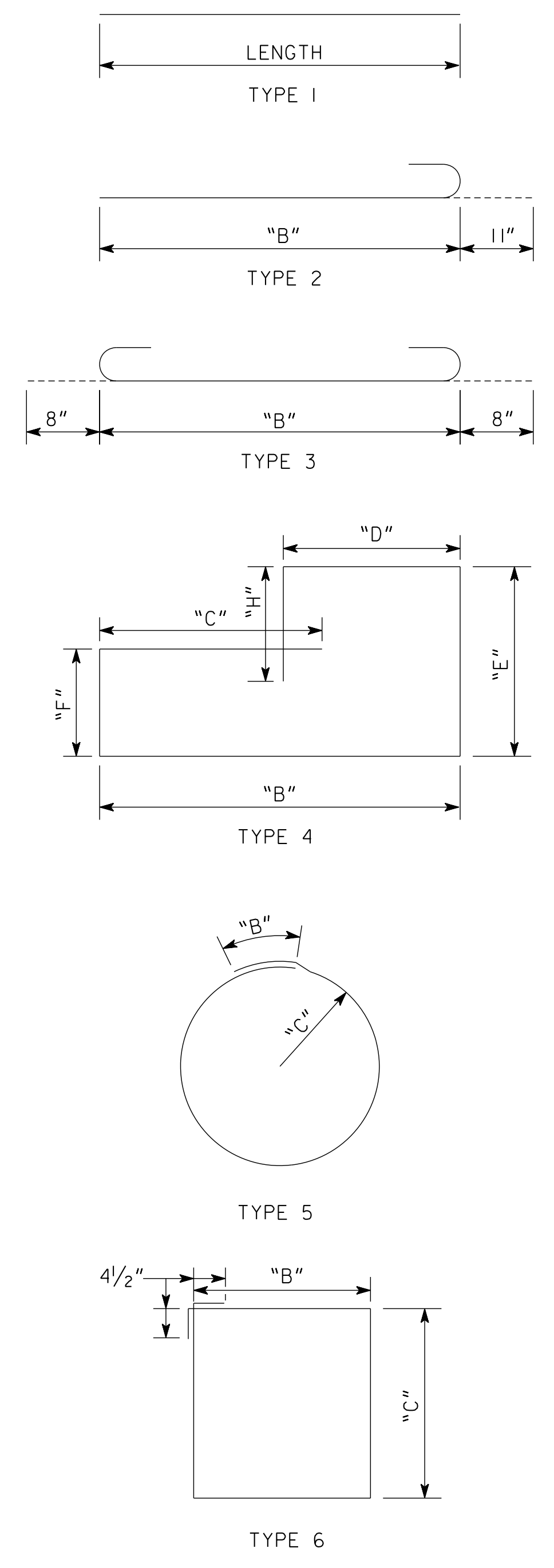
<p>ATLANTA BELTLINE</p> <p>SUBSTRUCTURE DETAILS</p> <p>PONCE DE LEON AVENUE/ATLANTA BELTLINE CONNECTION RAMP</p> <p>FULTON COUNTY</p>		<p>0012586</p>
<p>SCALE: 1" = 1'-0" UNLESS NOTED</p>		<p>JANUARY 2019</p>
<p>DESIGNED AP/UP</p> <p>DRAWN PS</p>	<p>CHECKED AS</p> <p>DESIGN GROUP</p>	<p>REVIEWED SKG</p> <p>APPROVED WMD</p>

S&A SASTRY & ASSOCIATES, INC.
11030 JONES BRIDGE ROAD, SUITE 201
ALPHARETTA, GA 30022
PHONE: 678-366-9375

1 INCH WHEN PRINTED FULL SIZE

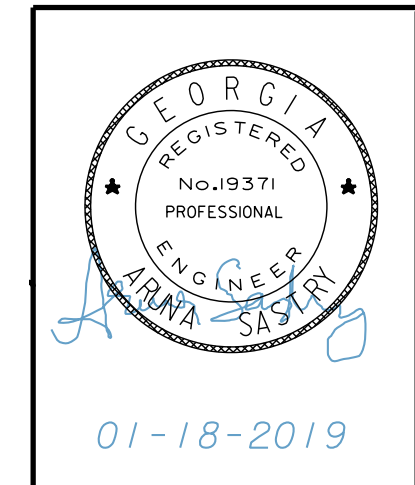
LOCATION	NO. OF LOC.	MARK	LENGTH		NO. BARS REQ'D.	TYPE	AG	B		C		D		E		F		H		J		K		N	θ
			FT.	IN.				FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.		
BENT 1	1																								
STIRRUP		410	5-10	11	4			1-0	1-3	0-4	1-4	0-7	1-4												
LONGITUDINAL		510	9-10	14	1																				
BENT 2	1																								
COL STIRRUP		420	4-2	22	5			1-0	0-6																
FTG LONGIT.		520	7-8	7	3			6-6																	
FTG TRANSVERSE		620	5-10	14	3			4-6																	
MAIN COLUMN		820A	7-9	16	2			6-10																	
BENT 3	1																								
COL STIRRUP		420	4-2	32	5			1-0	0-6																
FTG LONGIT.		520	7-8	7	3			6-6																	
FTG TRANSVERSE		620	5-10	14	3			4-6																	
MAIN COLUMN		820B	10-1	16	2			9-3																	
BENT 4	1																								
COL STIRRUP		420	4-2	50	5			1-0	0-6																
FTG LONGIT.		520	7-8	7	3			6-6																	
FTG TRANSVERSE		620	5-10	14	3			4-6																	
MAIN COLUMN		820C	11-9	16	2			13-10																	
BENT 5	2																								
COL STIRRUP		420	4-2	60	5			1-0	0-6																
FTG LONGIT.		520	7-8	7	3			6-6																	
FTG TRANSVERSE		620	5-10	14	3			4-6																	
MAIN COLUMN		820D	16-10	16	2			15-11																	
BENT 6	1																								
COL STIRRUP		420	4-2	56	5			1-0	0-6																
FTG LONGIT.		520	7-8	7	3			6-6																	
FTG TRANSVERSE		620	5-10	14	3			4-6																	
MAIN COLUMN		820E	16-5	16	2			15-6																	
BENT 7	1																								
COL STIRRUP		420	4-2	58	5			1-0	0-6																
FTG LONGIT.		520	7-8	7	3			6-6																	
FTG TRANSVERSE		620	5-10	14	3			4-6																	
MAIN COLUMN		820F	16-5	16	2			15-6																	
BENT 8	1																								
COL STIRRUP		420	4-2	68	5			1-0	0-6																
FTG LONGIT.		520	7-8	7	3			6-6																	
FTG TRANSVERSE		620	5-10	14	3			4-6																	
MAIN COLUMN		820G	18-9	16	2			17-10																	
BENT 9	1																								
COL STIRRUP		420	4-2	68	5			1-0	0-6																
FTG LONGIT.		520	7-8	7	3			6-6																	
FTG TRANSVERSE		620	5-10	14	3			4-6																	
MAIN COLUMN		820H	19-3	16	2			18-4																	
BENT 10	1																								
COL STIRRUP		420	4-2	180	5			1-0	0-6																
FTG LONGIT.		520	7-8	9	3			6-6																	
FTG TRANSVERSE		621	7-10	14	3			6-6																	
MAIN COLUMN		820J	24-4	32	2			23-5																	
STAIRS	1																								
COL STIRRUP		420	4-2	34	5			1-0	0-6																
FTG LONGIT.		520	7-8	7	3			6-6																	
FTG TRANSVERSE		620	5-10	14	3			4-6																	
MAIN COLUMN		820K	18-10	16	2			17-11																	
TOP OF STAIRS	1																								
SLAB STIRRUP		421	5-11	11	6			1-0	1-7																
SLAB LONGIT.		521	9-8	6	1																				
BOT. OF STAIRS	1																								
SLAB STIRRUP		422	6-5	13	6			2-6	0-4																
SLAB LONGIT.		522	11-8	8	1																				

BAR BENDING DETAILS



ELEVATED WALKWAY NO. 1 AND STAIRS NO. 1

ATLANTA BELTLINE	
REINFORCING SCHEDULE PONCE DE LEON AVENUE/ATLANTA BELTLINE CONNECTION RAMP FULTON COUNTY	
0012586	JANUARY 2019
SCALE: NO SCALE	
DESIGNED AP/UP	CHECKED AS
DRAWN PS	DESIGN GROUP
REVIEWED SKG	APPROVED WMD

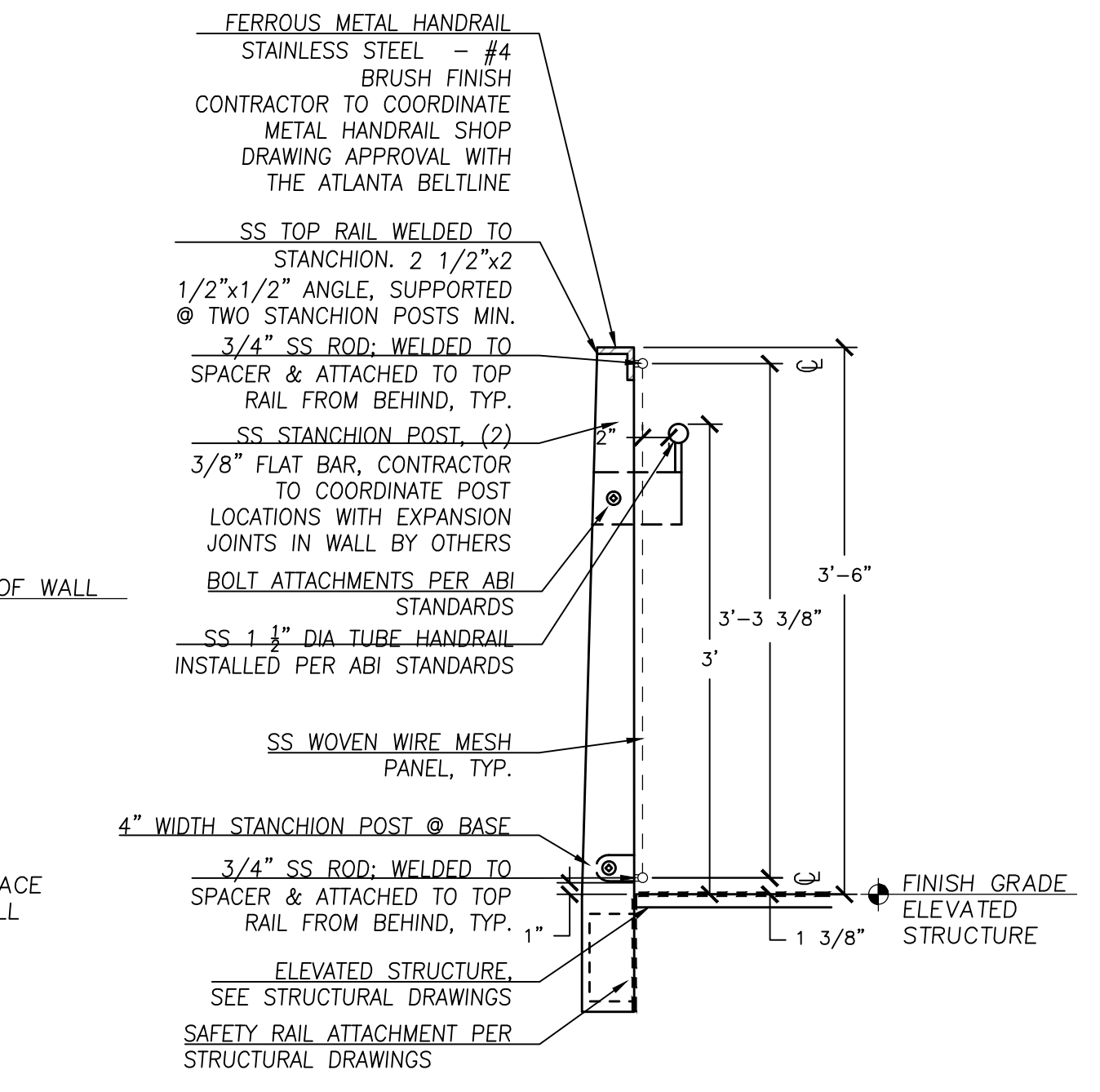
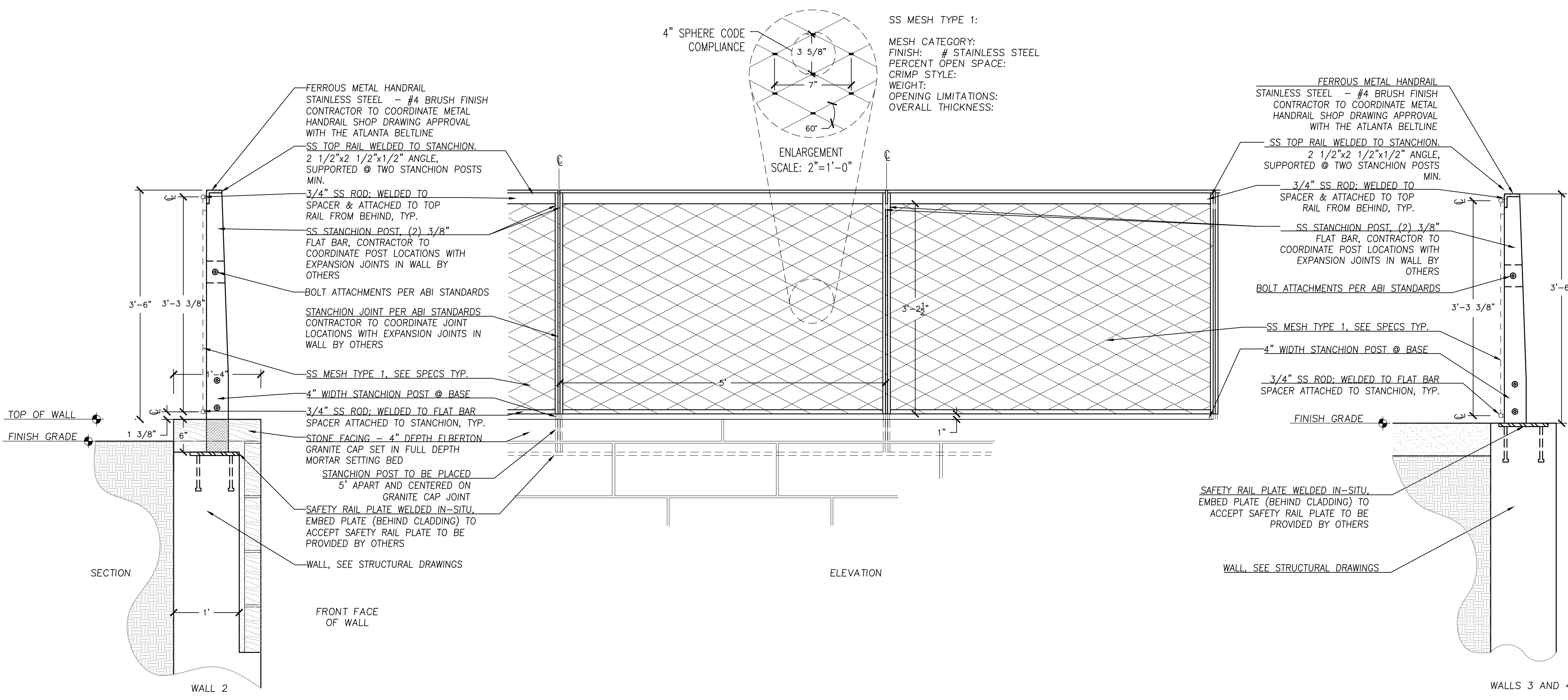
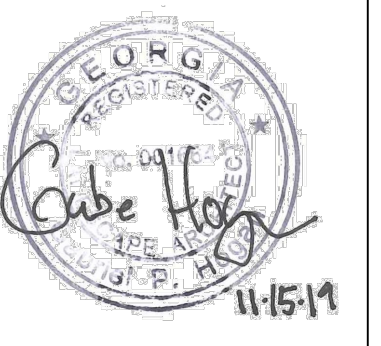


S&A SASTRY & ASSOCIATES, INC.
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ALPHARETTA, GA 30022
PHONE: 678-366-9375

DRAWING NO. 35 - 0011
BRIDGE SHEET 11 OF 11

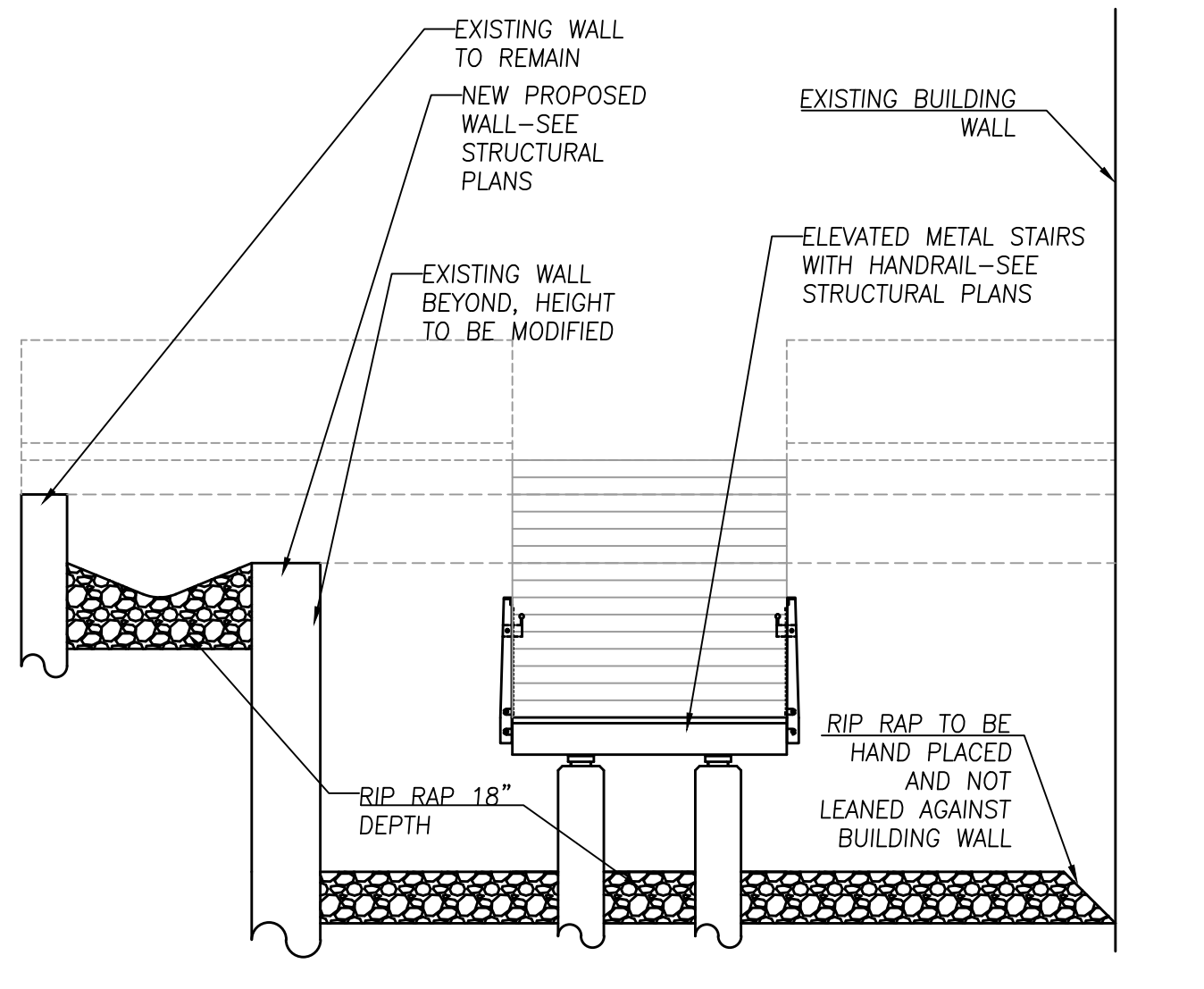
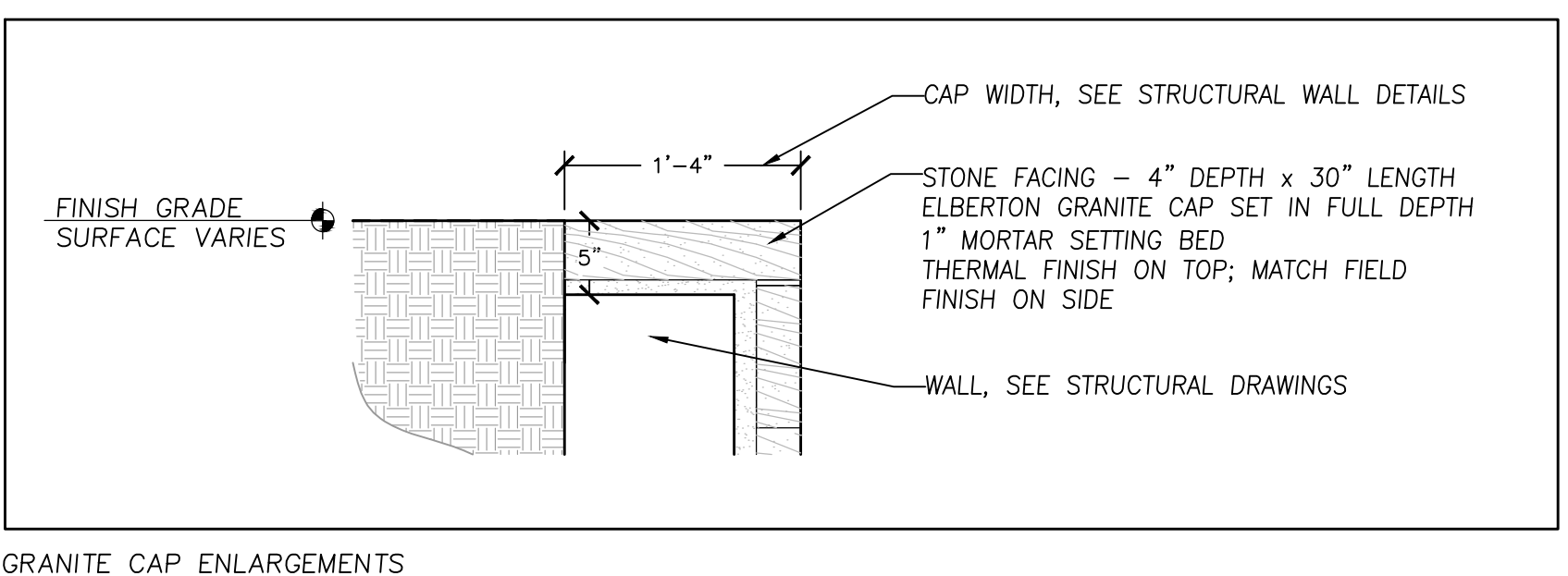
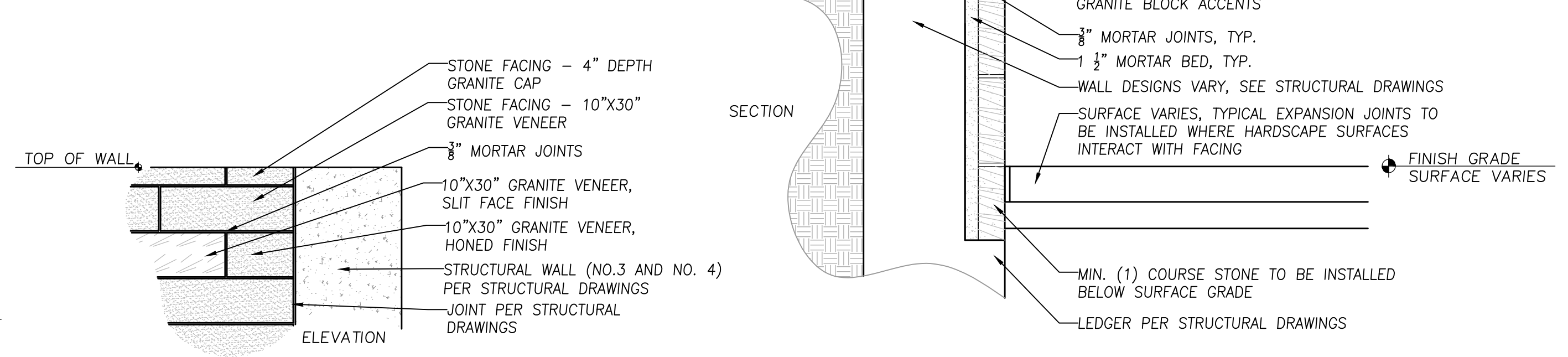
REVISIONS	DATE

1 INCH WHEN PRINTED FULL SIZE

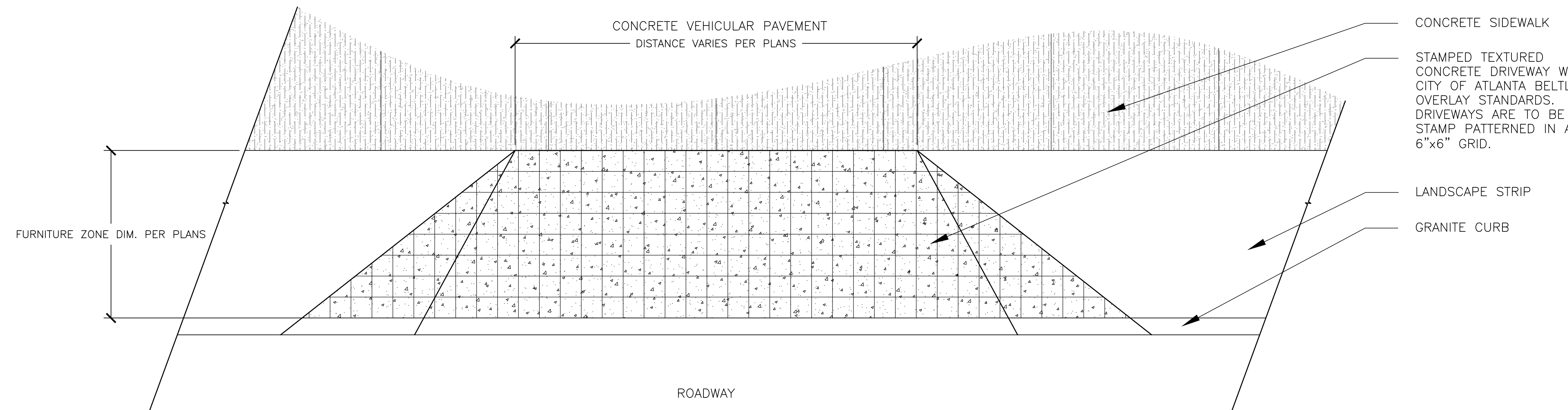


STAINLESS STEEL RAILING
 1" = 1" SCALE

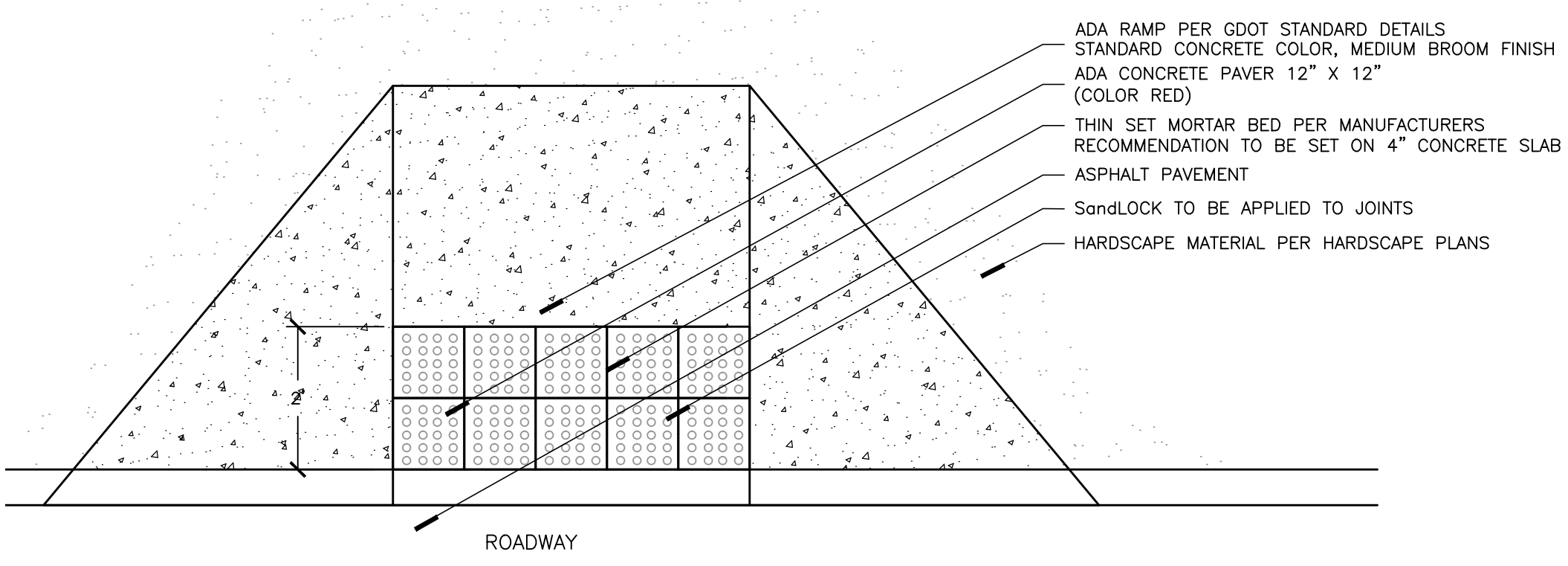
- NOTES:**
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR GRANITE VENEER LAYOUT PATTERN TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
 - GRANITE VENEER TIES SHALL BE INSERTED INTO VERTICAL AND HORIZONTAL GROUT JOINTS.
 - MORTAR SHALL HAVE A MINIMUM STRENGTH OF $f'm = 2000$ P.S.I. AND SHALL BE PLACED ABOVE AND BELOW THE GRANITE ANCHOR. PORTLAND CEMENT GROUT SHALL CONFORM TO 834.03.



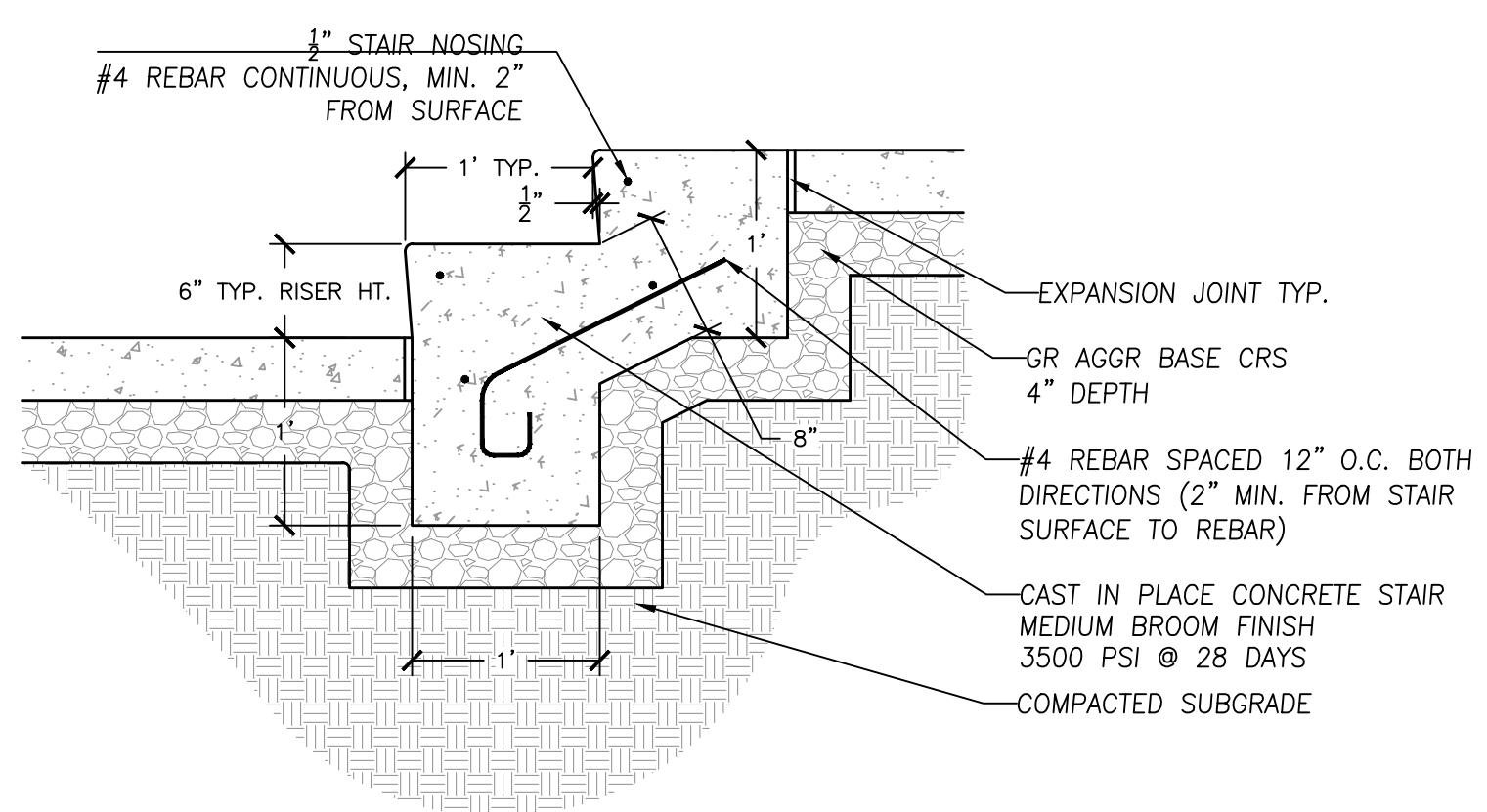
REVISION DATES		ATLANTA BELTLINE INC.	
		DETAILS	
		PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION	
		DRAWING No. 38-001	



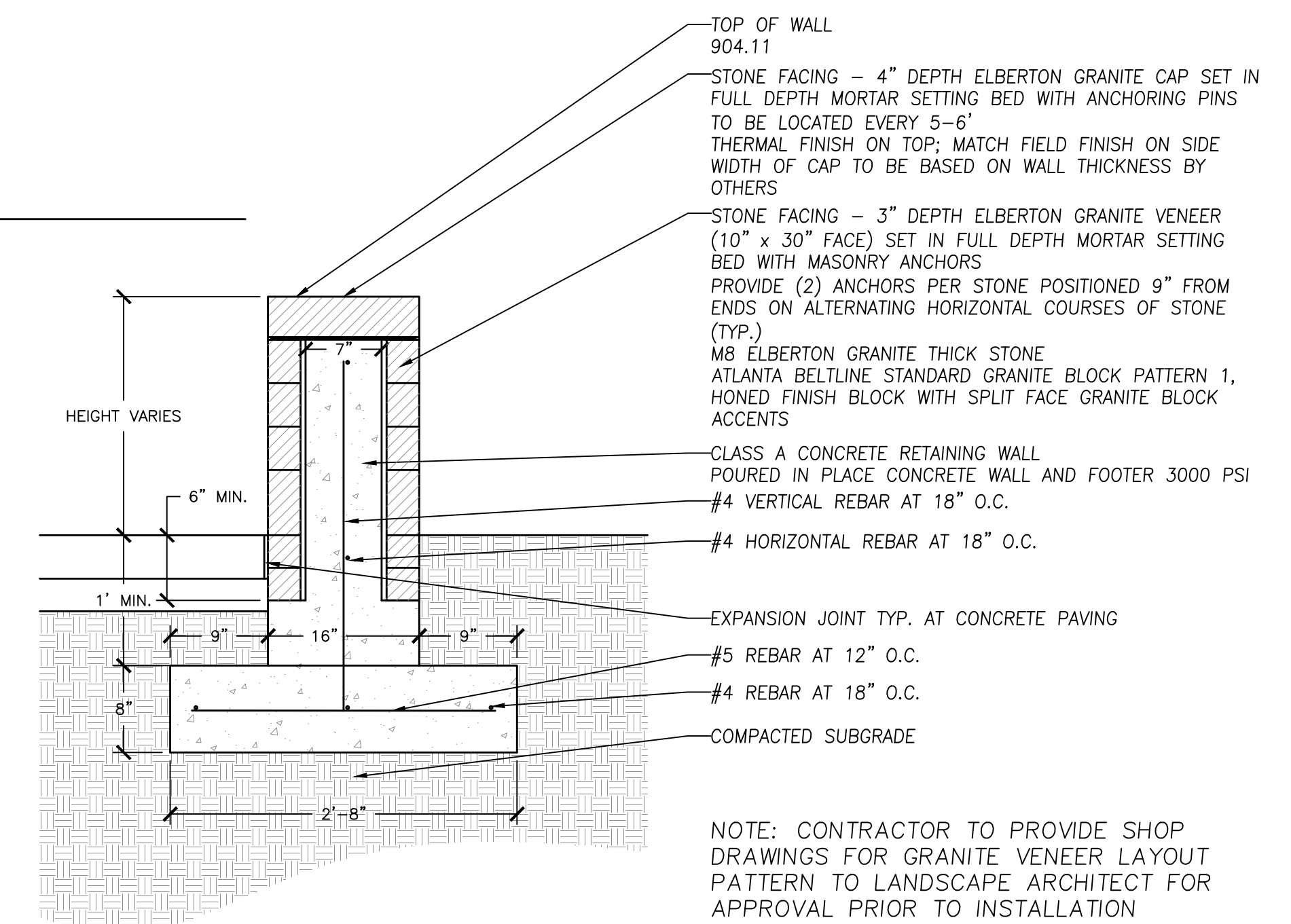
○ DRIVEWAY APRON
 1/2" = 1' SCALE



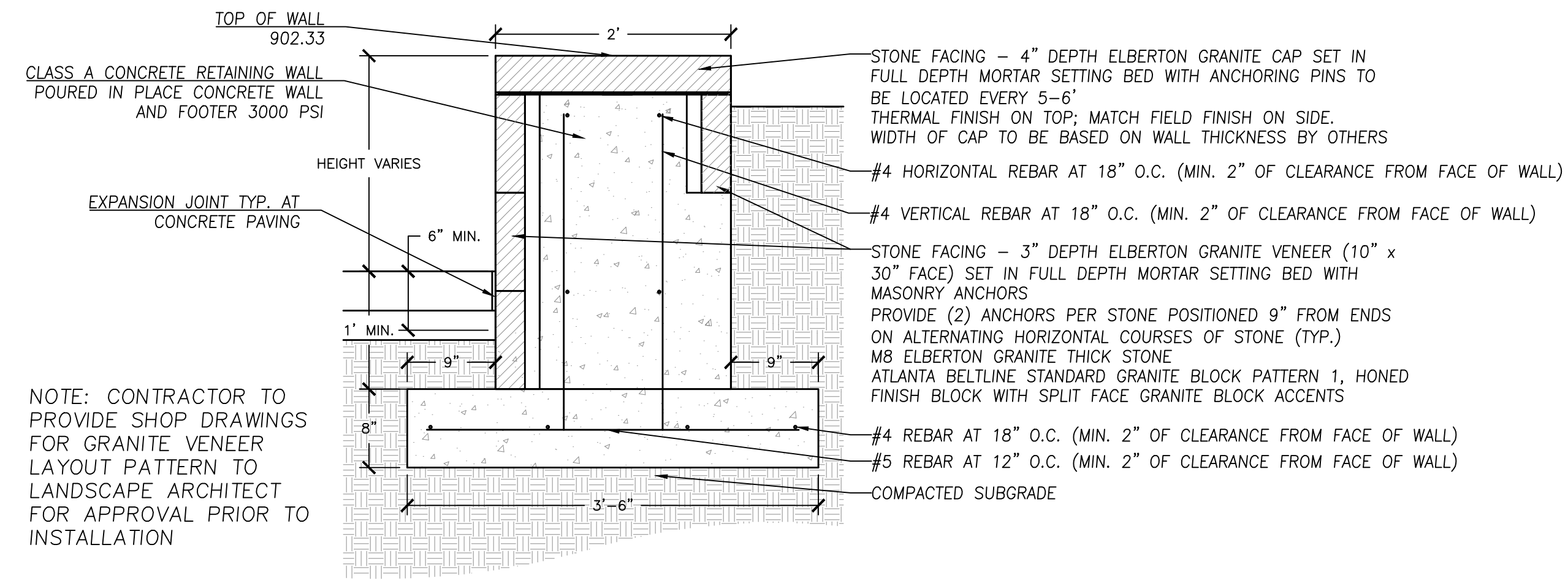
○ ADA CONCRETE PAVERS
 1" = 1' SCALE



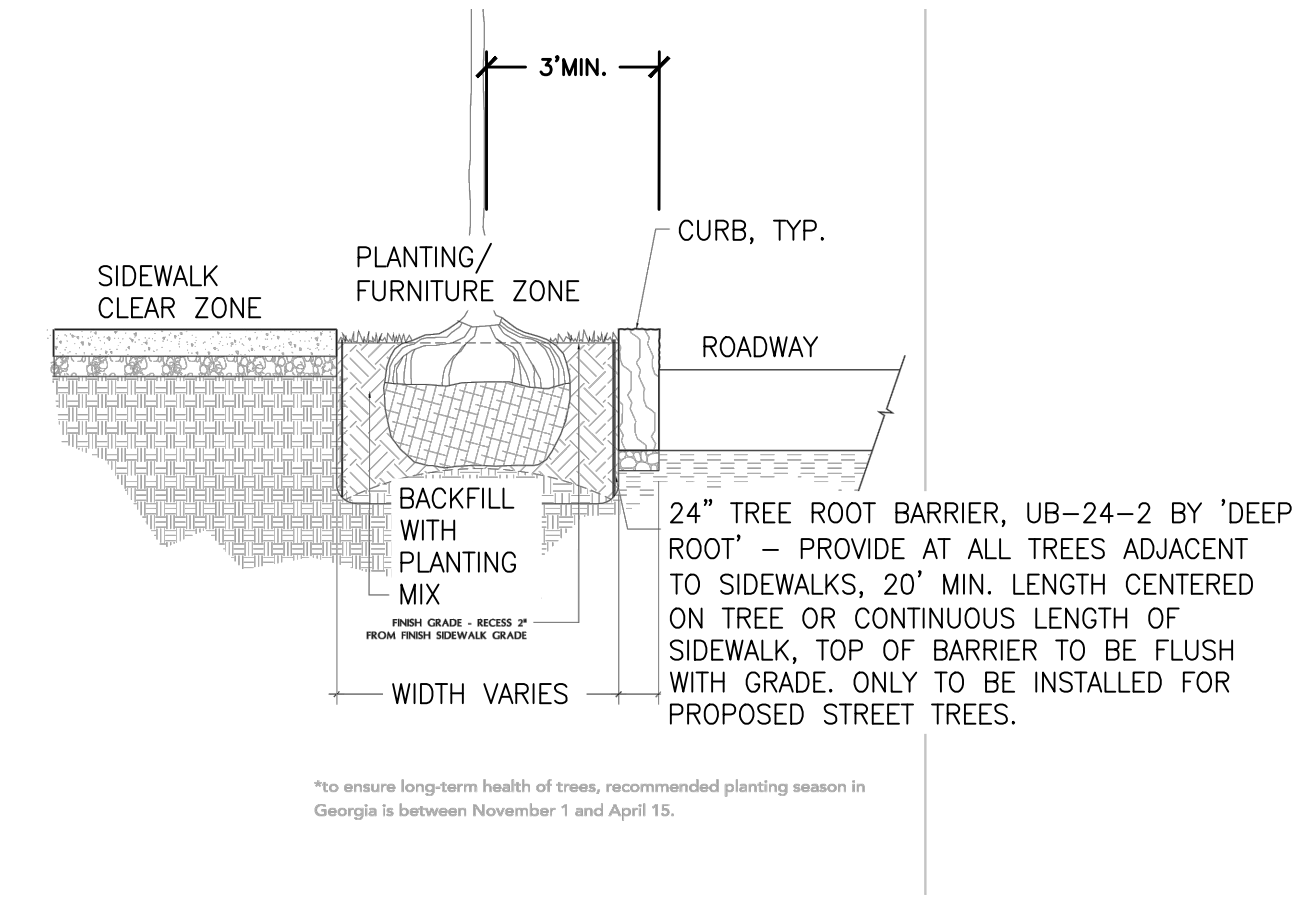
○ CONCRETE STEPS
 1" = 1' SCALE



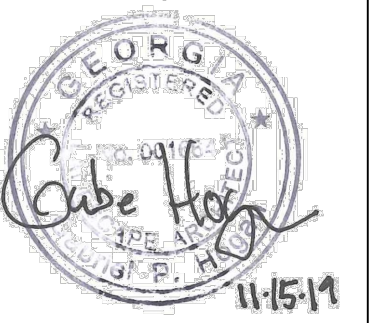
○ SEATWALL
 1" = 1' SCALE



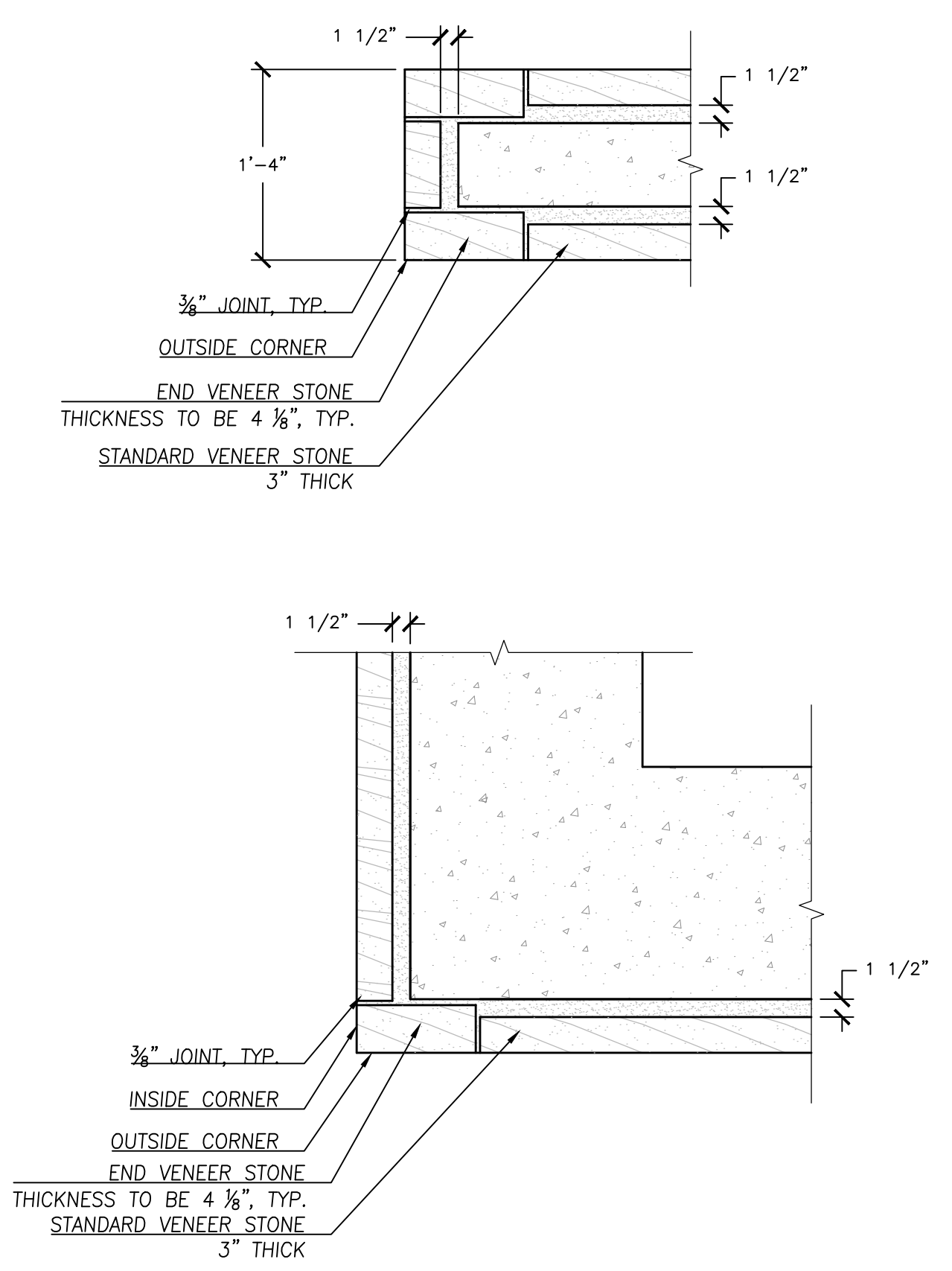
○ LOW WALL
 1" = 1' SCALE



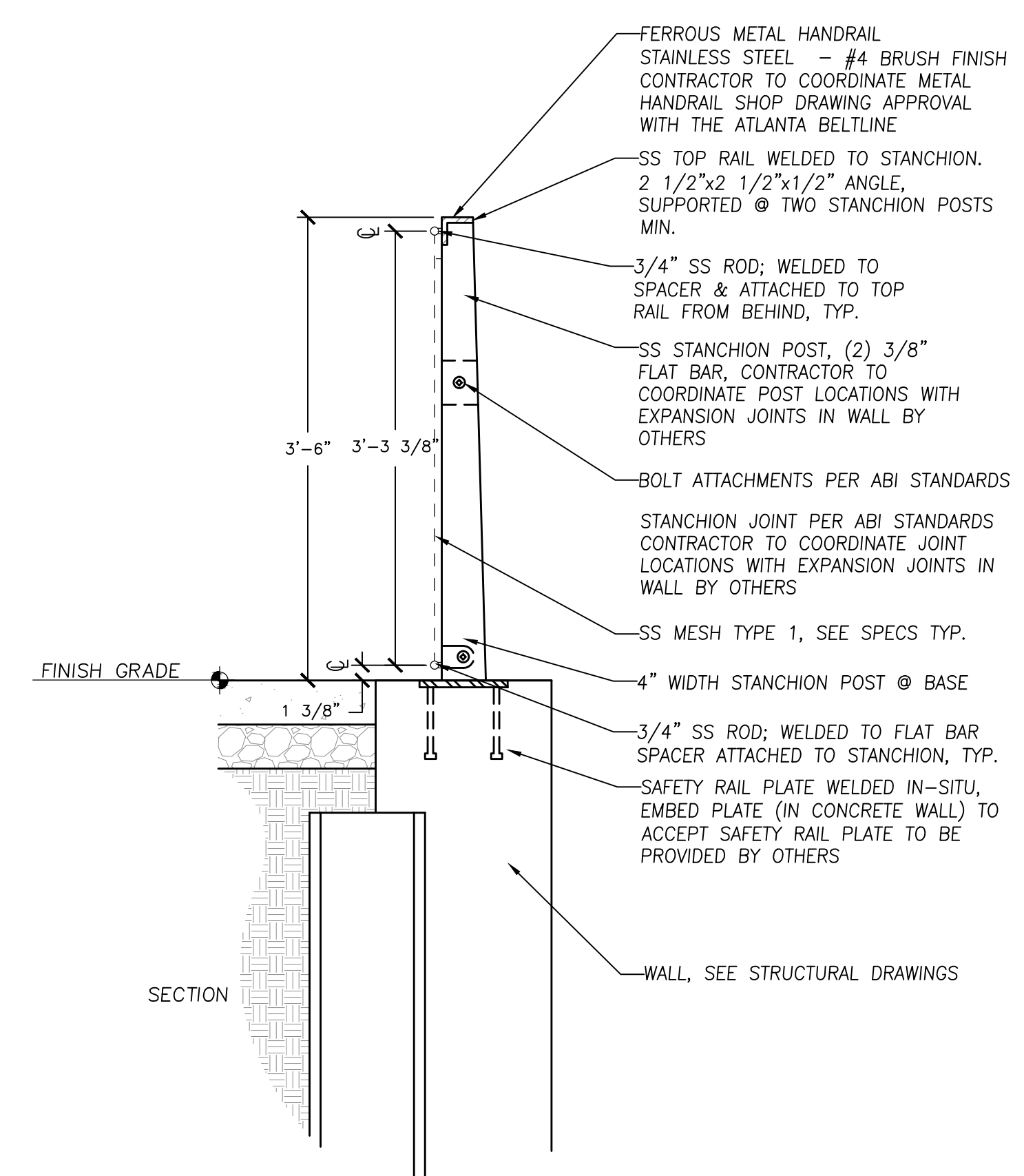
○ TREE INSTALLATION DETAIL
 1" = 1' SCALE



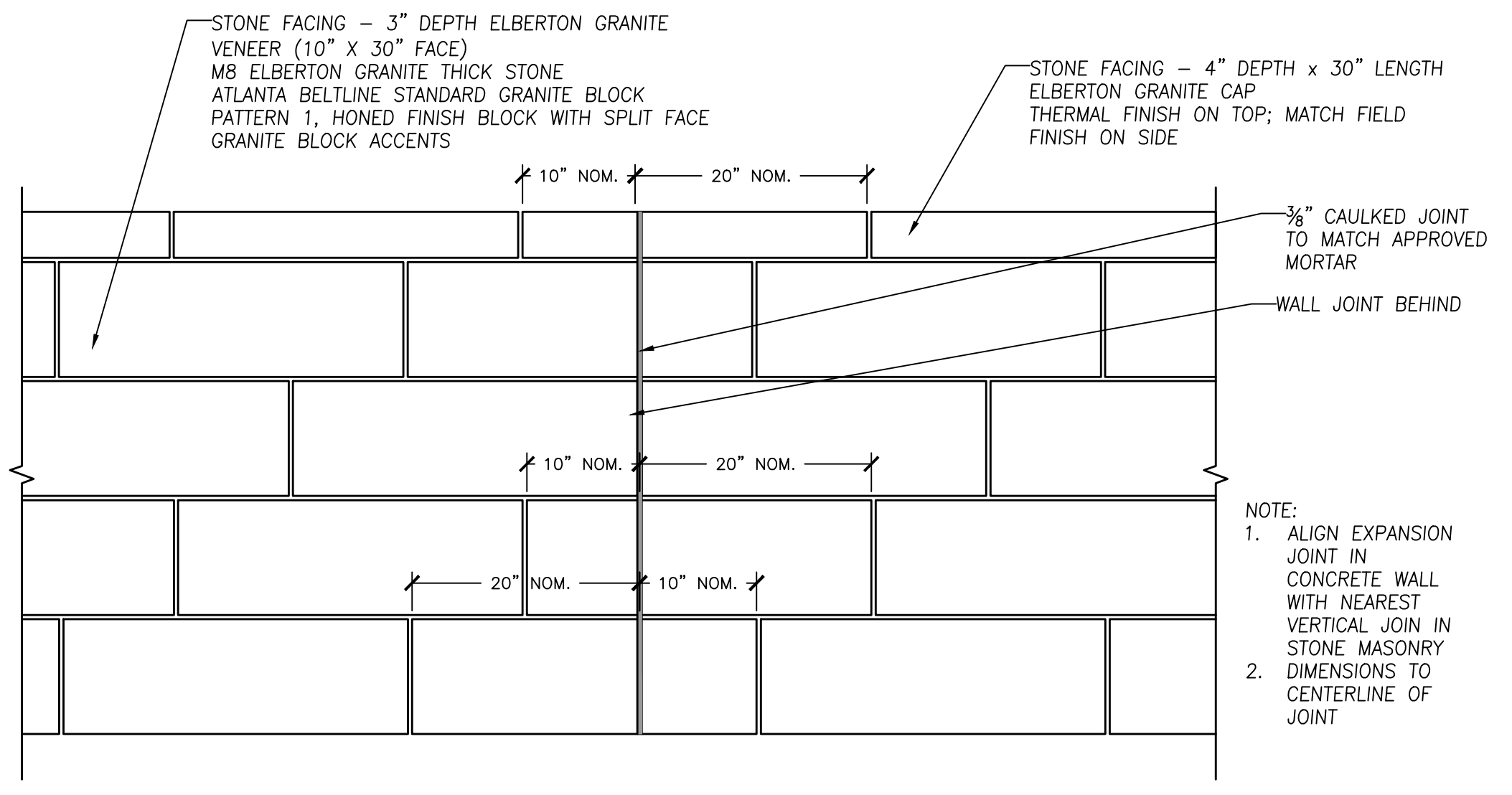
REVISION DATES		ATLANTA BELTLINE INC.	
		DETAILS	
		PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION	
		DRAWING No. 38-002	



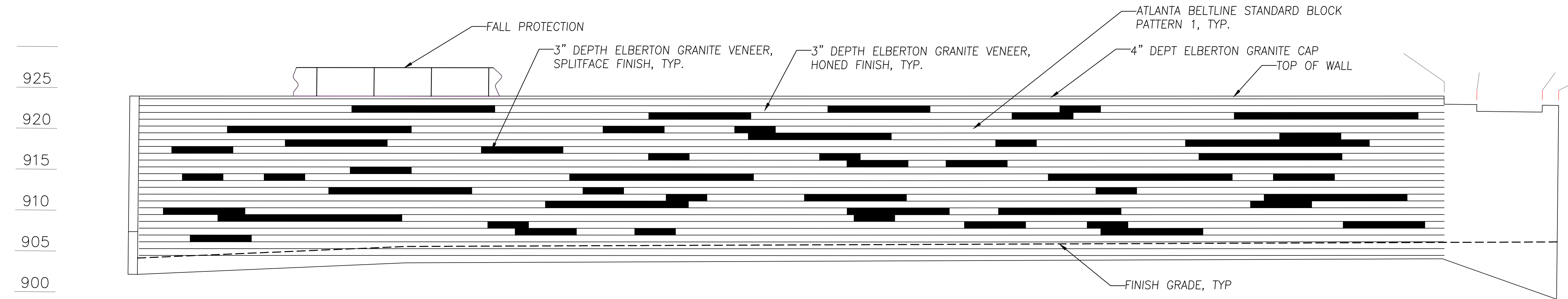
RETAINING WALL END/CORNER CONDITION
 1" = 1' SCALE



RAILING ON STRUCTURAL RETAINING WALL NO. 3
 1" = 1' SCALE



GRANITE STONE FACING AT WALL EXPANSION JOINT
 1" = 1' SCALE



NOTE:
 • CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR GRANITE VENEER LAYOUT
 PATTERN TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION
 • GRANITE VENEER LAYOUT ELEVATION SHOWN AS AN APPROXIMATION.
 • SPLITFACE STONE TO BE APPROXIMATELY 10-15% OF THE VENEER STONE.
 • NO SPLITFACE GRANITE VENEER STONE TO TOUCH THE GROUND

GRANITE VENEER ELEVATION VIEW
 1/8" = 1' SCALE

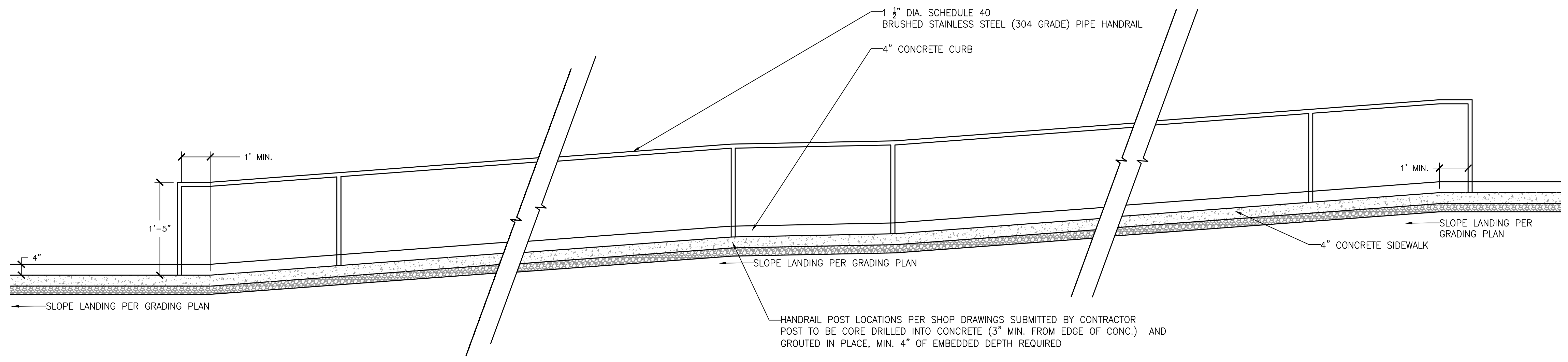
'U' BIKE RACK SPECIFICATION
 TUBING SIZE: 1.90" OD TUBING 20" LONG
 INSTALLATION METHOD/MOUNTING: IN-GROUND
 FINISH: BLACK POWDER COAT



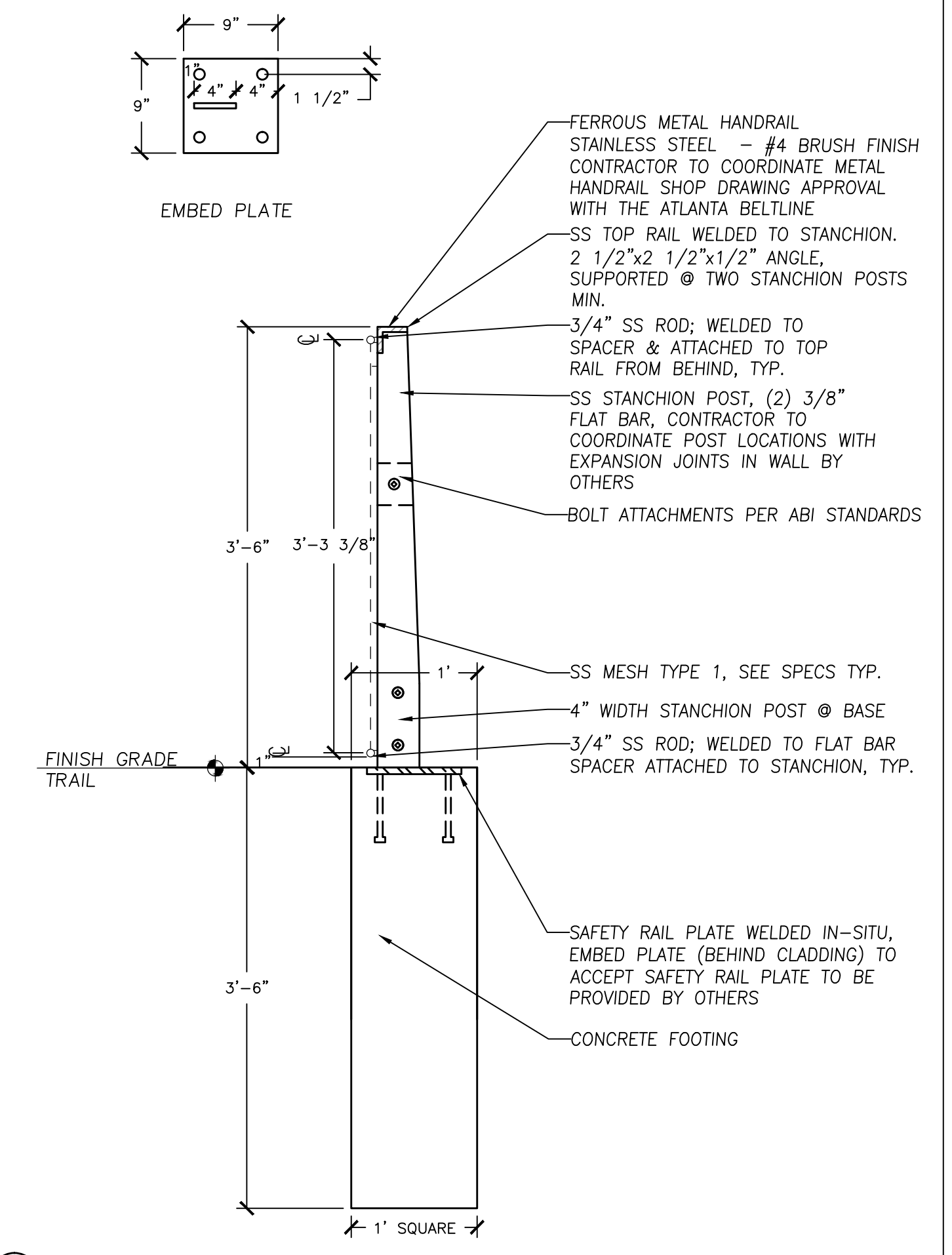
'U' BIKE RACK
 NTS



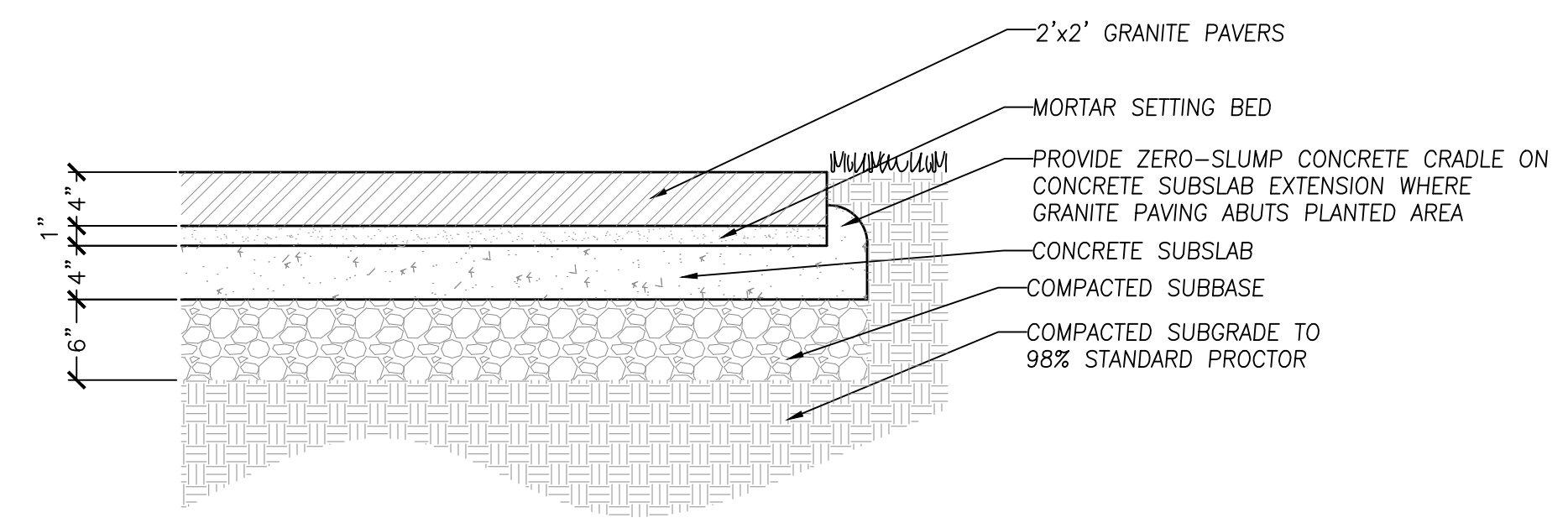
REVISION DATES		ATLANTA BELTLINE INC.
		DETAILS
		PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
		DRAWING No. 38-003



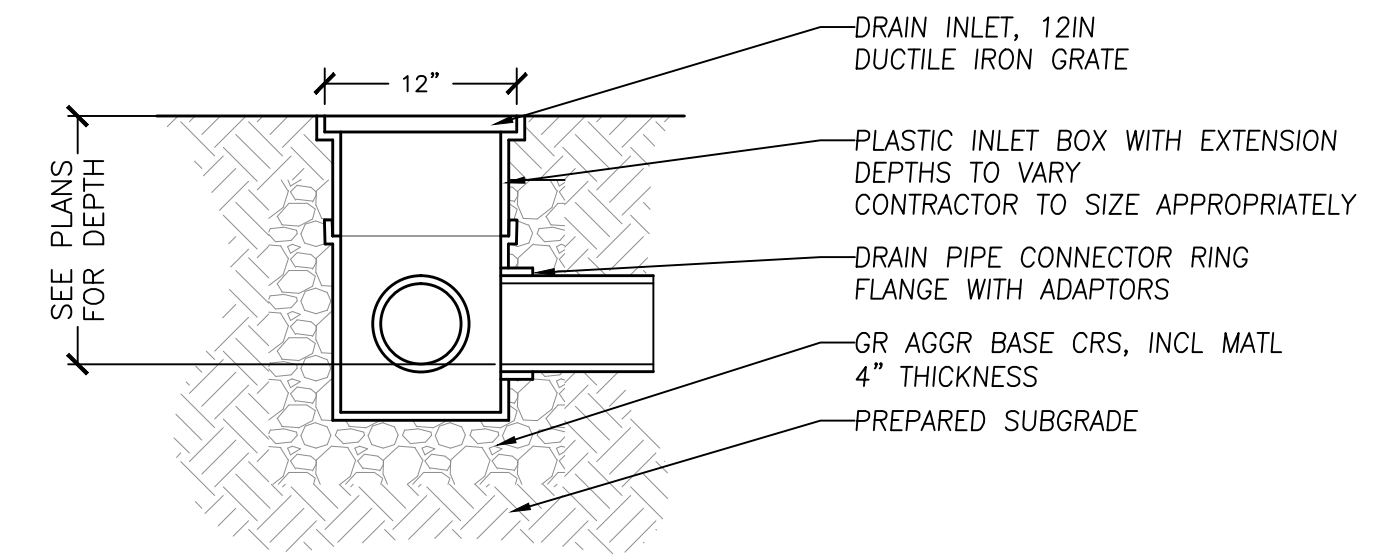
CONCRETE ADA RAMP
 1/2" = 1' SCALE



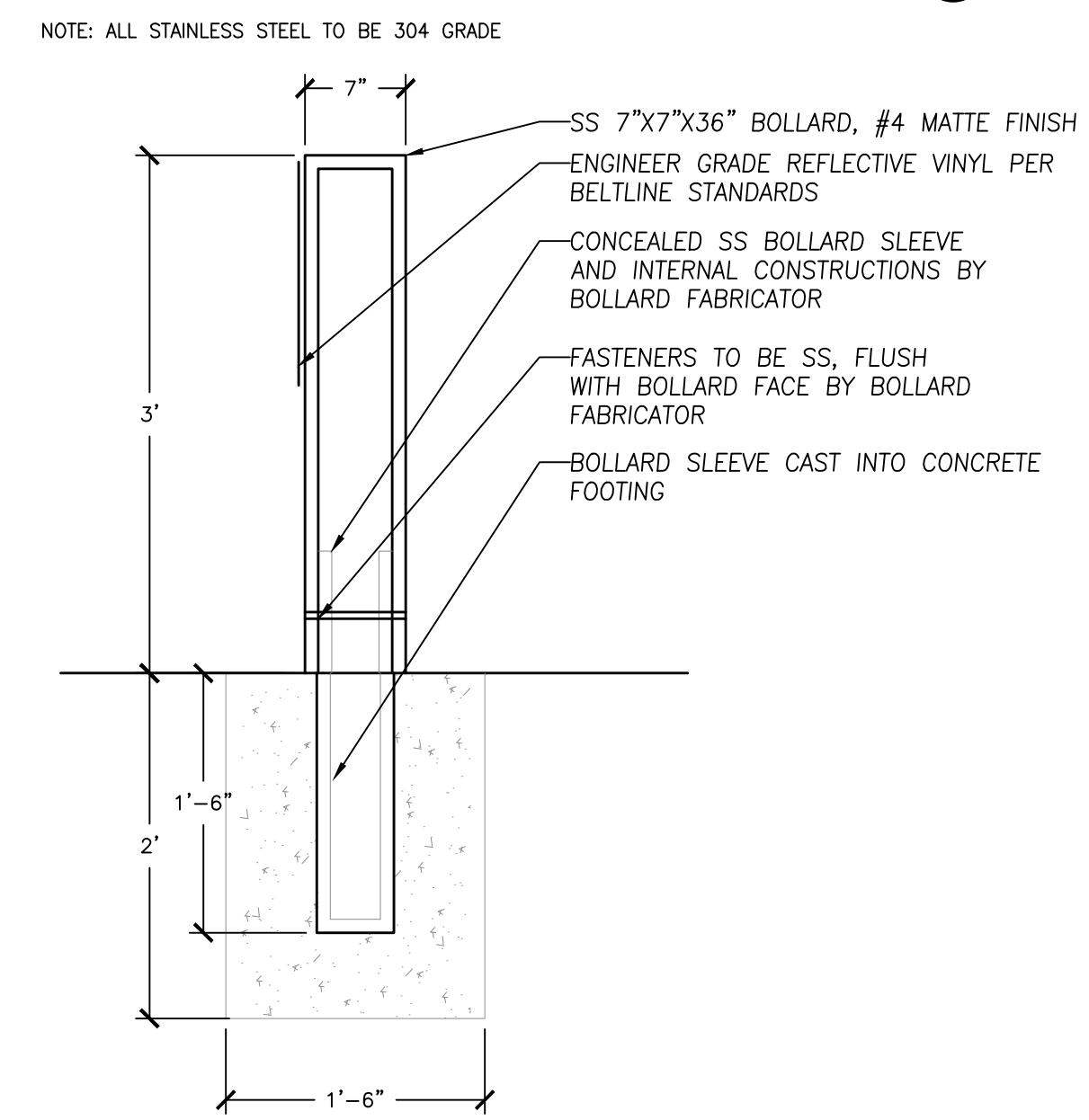
RAILING TOP MOUNTED ON FOOTING
 1" = 1' SCALE



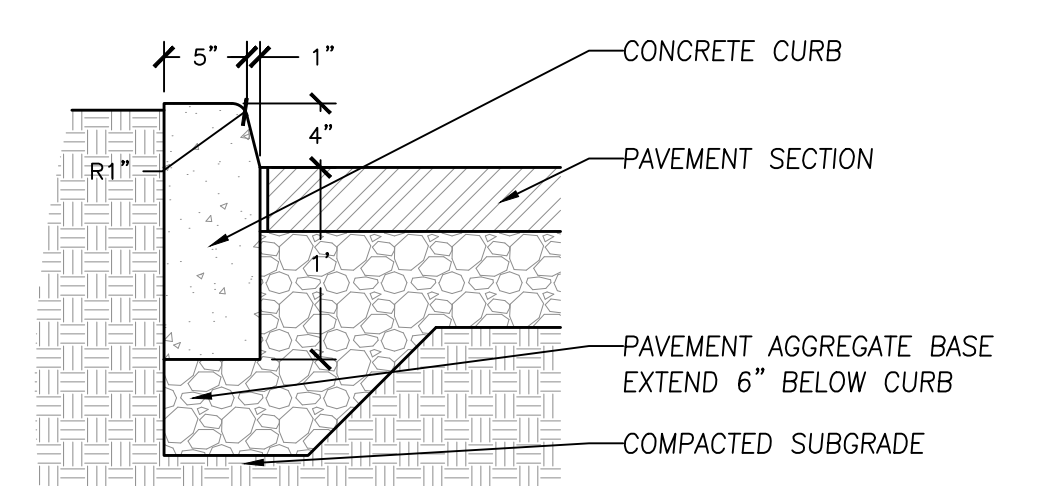
GRANITE PAVING ON RIGID BASE
 1" = 1' SCALE



12" DRAIN INLET
 1" = 1' SCALE



FIXED BOLLARD
 1" = 1' SCALE



4" CONCRETE CURB
 1" = 1' SCALE

- NOTES:
1. COMPACT SUBGRADE TO 98% STANDARD PROCTOR.
 2. 3500 P.S.I. CONCRETE 2" SLUMP, W/ SMOOTH FINISH.
 3. EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND CURB RETURNS.
 4. MAX. DIST BETWEEN CONTROL JOINTS - 25'.



REVISION	DATE	DESCRIPTION

ATLANTA BELTLINE INC.
 DETAILS
 PONCE DE LEON AVENUE COMPLETE STREETS RETROFIT AND BELTLINE CONNECTION
 DRAWING No. 38-004

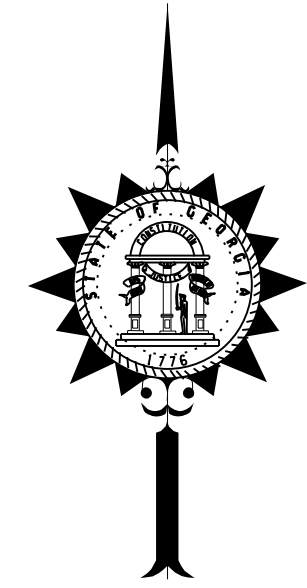


LOCATION SKETCH

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

UTILITY RELOCATION PLAN PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

FEDERAL AID PROJECT
CITY OF ATLANTA
FULTON COUNTY



DRAWING INDEX	
DRAWING NO.	DESCRIPTION
44-0001	COVER
44-0002 to 44-0003	GENERAL NOTES
44-0004	LEGEND
44-0005 to 44-0011	UTILITY RELOCATION PLAN
44-0012 to 44-0014	CONSTRUCTION DETAILS

FEDERAL ROUTE # 78
STATE ROUTE # 08
P.I. 0012586

BEGIN PROJECT
STA. 105+65.83
PONCE DE LEON AVENUE
N 1372724.1172
E 2234395.4257

END PROJECT
STA. 141+92.28
PONCE DE LEON AVENUE
N 1372811.6496
E 2237962.4009

END CONSTRUCTION
STA. 141+42.21
PONCE DE LEON AVENUE

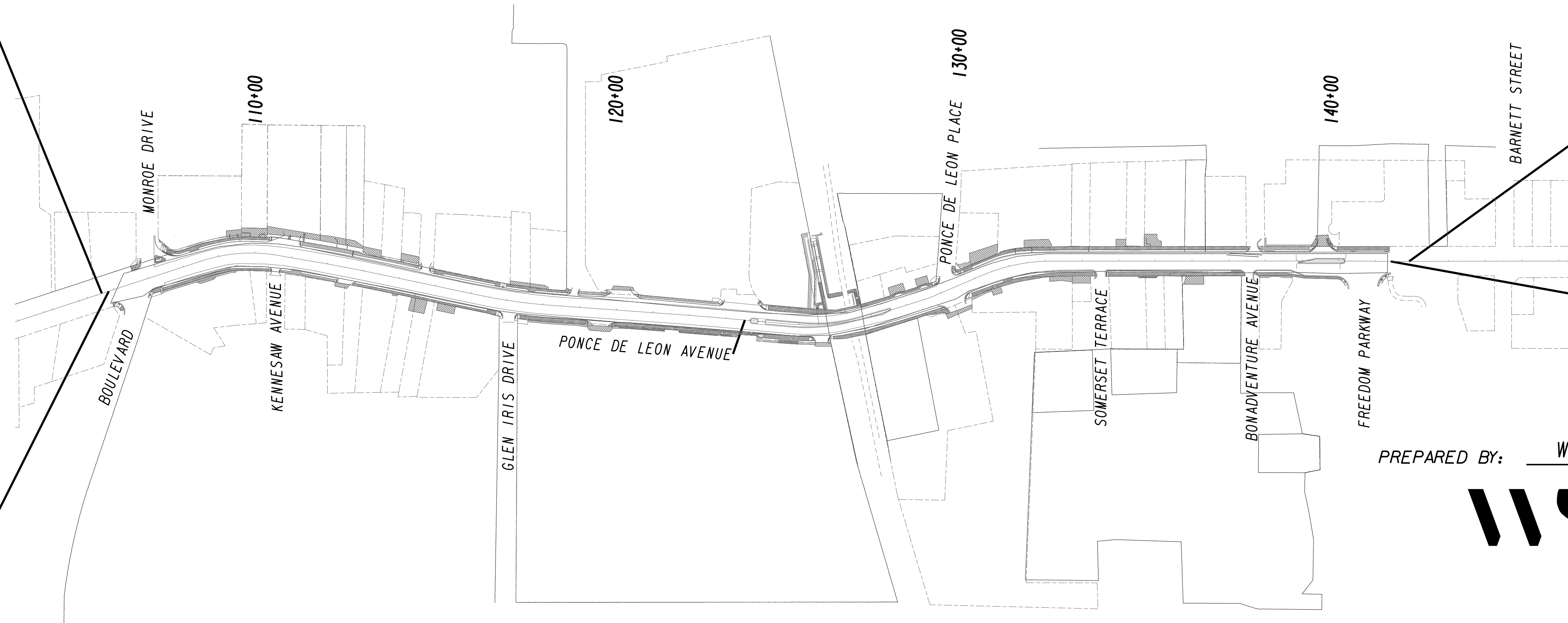
FUNCTIONAL CLASS:
URBAN COLLECTOR

THIS PROJECT IS 100% IN
FULTON COUNTY AND IS
100% IN CONG.DIST.NO.6.

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.

BEGIN CONSTRUCTION
STA. 105+85.85
PONCE DE LEON AVENUE

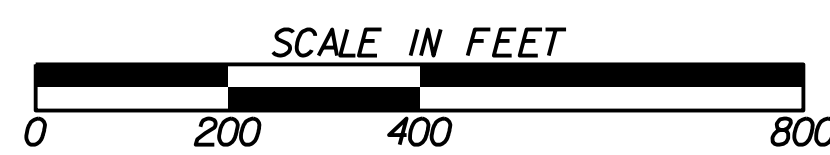


PREPARED BY: WSP USA



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3340 PEACHTREE RD NE
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ATLANTA, GA 30326
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FAX: 404-237-3015

PLANS COMPLETED	REVISIONS




LENGTH OF PROJECT	P. I. No. 0012586
	COUNTY No. 121
COUNTY: FULTON	MILES
NET LENGTH OF ROADWAY	0.687
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.687
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.687

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.

DRAWING No.
44-0001

CITY OF ATLANTA WATER GENERAL NOTES:

1. ALL REFERENCES TO ENGINEER OR INSPECTOR WITHIN THESE WATER GENERAL NOTES SHALL REFER TO CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT (DWM) ENGINEERS OR INSPECTORS.
2. ALL CONSTRUCTION METHODS AND MATERIALS USED TO EXTEND, RELOCATE, OR ABANDON CITY OF ATLANTA WATER SYSTEM MUST BE MADE OF DUCTILE IRON, AND COMPLY WITH THE CITY OF ATLANTA STANDARDS AND SPECIFICATIONS.
3. THE CONTRACTOR PERFORMING THE WATER CONSTRUCTION SHALL REQUEST A PRE-CONSTRUCTION CONFERENCE AND SUBMIT TO THE CITY ENGINEER PRIOR TO CONSTRUCTION THE FOLLOWING ITEMS:



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(811) 828-2000

THESE ITEMS SHALL BE NECESSARY PRIOR TO THE ASSIGNMENT OF A CITY OF ATLANTA INSPECTOR. THE CONTRACTOR SHALL PROVIDE A 2-WEEK ADVANCED SCHEDULE TO THE INSPECTOR INDICATING THE PROPOSED WORK AND AREAS OF CONSTRUCTION. THE DWM WATER INSPECTOR MUST BE NOTIFIED 48 HOURS PRIOR TO START OF EACH CONSTRUCTION ACTIVITY AND ANY CHANGES IN THE ADVANCE SCHEDULE.
4. CONCRETE THRUST BLOCKING SHALL BE INSTALLED AT ALL BENDS, TEES, HYDRANTS, PLUGS, ETC. PER DETAIL
5. FIRE-HYDRANTS SHOWN IN THE RADIUS OF A CURVE SHALL BE FIELD ADJUSTED SO THAT THE ACTUAL INSTALLATION OF FIRE HYDRANTS WILL BE OUTSIDE OF CURVE RADIUS.
6. ANY CHANGES TO THE APPROVED WATER DRAWINGS MUST BE APPROVED BY DWM WATER DEPARTMENT ENGINEER.
7. ALL LINES 8-INCHES OR GREATER MUST BE PRESSURE TESTED AT 250 PSI FOR A MINIMUM OF TWO (2) HOURS. CITY OF ATLANTA INSPECTOR MUST BE NOTIFIED OF INTENT TO PRESSURE TEST PRIOR TO SCHEDULED TESTING.
8. THE WATER FACILITIES ILLUSTRATED ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY, AND SHOW APPROXIMATE LOCATIONS OF VARIOUS WATER MAINS, SERVICE LINES, AND APPURTENANCES. CONTRACTOR SHALL FIELD VERIFY THE SIZE AND DEPTH OF WATER FACILITIES PRIOR TO CONSTRUCTION. ANY VARIANCES OR UNFORESEEN CONFLICTS WITH ANY PROPOSED CONSTRUCTION SHALL BE COMMUNICATED TO THE CITY ENGINEER IMMEDIATELY. ANY REVISED WATER CONSTRUCTION BASED ON FIELD CONDITIONS DIFFERING FROM THE PLANS SHALL BE APPROVED BY THE CITY ENGINEER. ALL CONSTRUCTION SHALL BE IN CONFORMITY WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE CITY OF ATLANTA.
9. ALL FIRE-HYDRANTS SHALL BE A MAXIMUM DISTANCE OF 300 FEET FOR AREAS ZONED AS COMMERCIAL CENTRAL BUSINESS DISTRICT AREAS, AND 500 FEET FOR RESIDENTIAL AREAS. CONTRACTOR SHALL FIELD VERIFY FINAL DEPTH OF BURY BASED UPON PROPOSED WATER MAIN INSTALLATION.
10. ALL FIRE HYDRANTS SHALL BE INSTALLED OR RELOCATED WITH A 6-INCH DIAMETER BRANCH LINE AND SHALL HAVE A 6-INCH GATE VALVE LOCATED AT THE TEE UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE DWM ENGINEER.
11. THE SHOE OF EACH HYDRANT SHALL BE WELL BRACED AGAINST UNDISTURBED EARTH AT THE END OF THE TRENCH WITH A POURED CONCRETE BRACE BLOCK AND IT SHALL BE TIED TO THE PIPE WITH SUITABLE METAL TIE-RODS OR CLAMPS AS DIRECTED BY THE DWM.
12. TO ALLOW THE FIRE HYDRANT "WEEP HOLES" TO FUNCTION PROPERLY, THE SHOE OF THE FIRE HYDRANT SHALL BE SURROUNDED BY GRAVEL. THE GRAVEL SHALL BE MINIMUM OF 8-INCH ABOVE THE WEEP HOLES AND SHALL EXTEND TO A POINT 18 INCHES BELOW THE WEEP HOLES.
13. ALL METERS, FIRE HYDRANTS, VALVES, AND PIPES WITHIN THE CITY OF ATLANTA WATER SYSTEM ARE THE SOLE PROPERTY OF THE CITY OF ATLANTA. ALL SUCH MATERIAL ARE NOT SALVAGEABLE BY ANY CONTRACTOR.
14. CONTINUOUS SERVICE TO ALL EXISTING METERS AND FIRE SERVICES SHALL BE MAINTAINED EXCEPT AS AUTHORIZED BY THE DWM. THE REQUIRED TEMPORARY SERVICE CONNECTIONS WILL BE MADE UNDER THE SUPERVISION OF THE DWM INSPECTORS.
15. THE CONTRACTOR SHALL NOT OPERATE OR WORK ON ANY VALVES, WATER METERS, OR HYDRANTS, OR MAKE ANY CONNECTIONS ON OR TO, EXISTING WATER MAINS OR OTHER EXISTING SERVICES UNLESS OTHERWISE AUTHORIZED BY THE DWM INSPECTORS. CONTRACTORS MAY OPERATE HYDRANTS AFTER OBTAINING THE NECESSARY HYDRANT METER PERMIT AND HYDRANT KEY FROM THE DWM METER APPLICATION OFFICE (404-330-8091).
16. WHERE PROPOSED WATER MAINS SHOWN ON PLANS ARE REQUIRED TO CLEAR EXISTING UTILITIES, WHETHER SHOWN OR NOT ON PLANS, THE VERTICAL ALIGNMENT OF THE PROPOSED WATER MAINS SHALL BE ADJUSTED TO ALLOW A MINIMUM CLEARANCE OF 18 INCHES. SUCH ADJUSTMENT SHALL CONFORM TO THE MINIMUM DEPTH OF COVER REQUIREMENTS.
17. IN NO INSTANCE SHALL A PROPOSED BURIED SEWER BE INSTALLED AT THE SAME OR HIGHER ELEVATION AS A PARALLEL BURIED WATER MAIN IF THEIR LATERAL SEPARATION IS LESS THAN 10 FEET. THE DISTANCE SHALL BE MEASURED EDGE-TO-EDGE.
18. WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, THE SEWER PIPE MAY BE LAID CLOSER AT THE DISCRETION OF THE DWM, PROVIDED THE SEWER IS LAID IN A SEPARATE TRENCH OR AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE WATER MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, PROVIDED THE SEWER BE CONSTRUCTED OF MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND BE PRESSURED TESTED TO ASSURE WATER-TIGHTNESS PRIOR TO BACKFILLING.
19. WHEN LOCAL CONDITIONS PREVENT A VERTICAL SEPARATION OF 18 INCHES, THE SEWER PASSING OVER OR UNDER THE WATER MAIN SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.

20. WHEN WATER MAINS CROSS UNDER SEWERS, ADDITIONAL MEASURES SHALL BE TAKEN BY PROVIDING A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE SEWER AND TOP OF THE WATER MAIN AS WELL AS ENCASEMENT OF THE SEWER IN CONCRETE TO PROVIDE ADEQUATE STRUCTURAL SUPPORT TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTING ON AND BREAKING THE WATER MAIN. THE SEWER SHALL BE LAID IN SUCH A MANNER THAT THE LENGTH OF PROPOSED PIPE BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN. THE SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE AND SUBJECTED TO HYDROSTATIC TESTS.
21. ACCEPTANCE OF THE NEW OR REARRANGED WATER MAIN IS CONDITIONAL UPON A SUCCESSFUL HYDROSTATIC TEST UNDER THE SUPERVISION OF A DWM INSPECTOR AND THAT THE NEW OR REARRANGED WATER MAIN PASSES THE DWM'S STANDARD QUALITY AND BACTERIOLOGICAL TESTS.
22. UPON COMPLETION OF THE SUCCESSFUL HYDROSTATIC TEST, AND THE LABORATORY ACCEPTANCE OF THE WATER QUALITY TEST A FINAL INSPECTION BY COA DWM PERSONNEL WILL BE MADE. THE ACCEPTANCE OF THE WATER WILL BE CONFIRMED BY A LETTER OF ACCEPTANCE WHICH WILL BE ISSUED FOLLOWING RECEIPT OF ACCEPTABLE "AS-BUILT" PLANS IN ELECTRONIC FORMAT AS WELL AS PAPER COPY.
23. WATER MAINS, VALVES, HYDRANTS AND APPURTENANCES SHALL BE INSTALLED BEFORE INSTALLATION OF THE SUB-BASE COURSE OF PAVING OR ANY OTHER UTILITIES EXCEPT SANITARY SEWER LINES WHERE FEASIBLE.
24. ALL TAPS SHALL REMAIN EXPOSED AT THE MAIN UNTIL THE SYSTEM HAS BEEN SUCCESSFULLY INSPECTED, DISINFECTED AND TESTED FOR PRESSURE.
25. ANY CONTRACTOR WHO IS PROPOSED AS AN INSTALLER OF ANY WATER FACILITIES MUST PROVIDE SUFFICIENTLY DETAILED INFORMATION OF THEIR PREVIOUS EXPERIENCE OR EXPERIENCE OF THEIR AUTHORIZED SUB-CONTRACTOR AS TO PERMIT THE DWM TO EVALUATE THEIR ACCEPTABILITY AS AN INSTALLER OF WATER MAINS OR WATER FACILITIES. THE CONTRACTOR OR HIS AUTHORIZED SUB-CONTRACTOR MUST SUBMIT THE COMPLETED FORM WATER MAIN INSTALLATION CONTRACTOR EXPERIENCE QUALIFICATION FORM AND THEIR STATE OF GEORGIA UTILITY LICENSE CERTIFICATION TO THE DWM FOR APPROVAL PRIOR TO THE START OF ANY WATER MAIN WORK.
26. THE NUMBER OF TURNS TO OPEN SHALL BE AS SHOWN BELOW PLUS OR MINUS THREE FOR 6-INCH THROUGH 12-INCH DIAMETER VALVES, AND PLUS OR MINUS FIVE FOR 16-INCH DIAMETER AND LARGER VALVES:
 6-INCH-21 TURNS, 16-INCH-102 TURNS, 30-INCH-350 TURNS
 8-INCH-27 TURNS, 20-INCH-133 TURNS, 36-INCH-450 TURNS
 12-INCH-38 TURNS, 24-INCH-230 TURNS, 42-INCH-350 TURNS
 48-INCH-405 TURNS
27. ALL OF THE VALVE BOXES TO BE THE ATLANTA WATER DEPARTMENT PATTERN. TOP SECTION TO BE CAST WITH A SHELL CORE AND A TOLERANCE OF PLUS OR MINUS 1/32". WHEN COATING IS COMPLETE, THE LID SHALL FIT SNUGLY IN ITS RECEPTACLES IN THE TOP OF THE BOX WITHOUT FORCING AND SHALL NOT ROCK. THE TOP OF THE LID SHALL BE FLUSH WITH THE TOP OF THE BOX, AND BANDED FOR SHIPMENT.
28. THE LENGTH OF TRENCH TO BE OPENED IN ADVANCE OF THE COMPLETED WORK SHALL BE LIMITED BY THE ENGINEER WITH REGARD TO BOTH THE RAPID PROGRESS OF THE WORK AND THE CONVENIENCE, COMFORT, AND SAFETY OF THE PUBLIC AND PROPERTY OWNERS OR TENANTS IN THE VICINITY OF THE WORK.
29. THE DWM WILL PROVIDE INSPECTORS WHO WILL BE AUTHORIZED TO OBSERVE AND/OR INSPECT ALL WORK DONE AND WHO SHALL INFORM THE REQUESTING AGENCY'S ENGINEER OF ANY FAILURE OF THE WORK TO CONFORM TO THE DEPARTMENTS CURRENT REQUIREMENTS AND STANDARDS. THE INSPECTOR MAY SUSPEND OR REQUEST THE DEVELOPER AND CONTRACTOR TO SUSPEND THE WORK UNTIL ANY QUESTIONS CAN BE REFERRED TO AND A DECISION RENDERED BY THE DWM ENGINEER. FAILURE OF A PROJECT TO MEET THE DEPARTMENT'S STANDARDS WILL RESULT IN ACCEPTANCE BEING WITHHELD UNTIL SUCH TIME AS THE STANDARDS ARE MET.
30. THE INSPECTION OF THE WORK SHALL NOT RELIEVE THE DEVELOPER OR CONTRACTOR OF ANY OF THEIR RESPONSIBILITIES AND OBLIGATIONS TO FULFILL THE CONTRACT IN A SATISFACTORY MANNER. THE FAILURE OF THE INSPECTOR TO DISCOVER IMPROPER WORKMANSHIP SHALL NOT BE CONSIDERED AS A WAIVER OF ANY DEFECTS WHICH MAY BE DISCOVERED LATER AND THE REQUESTING AGENCY SHALL MAKE NECESSARY REPAIRS AT ITS OWN EXPENSE UPON BEING NOTIFIED OF SUCH DEFECTS BY THE INSPECTOR. THE REQUESTING AGENCY OR CONTRACTOR SHALL FURNISH THE INSPECTOR WITH EVERY REASONABLE FACILITY TO DETERMINE WHETHER OR NOT THE WORK PERFORMED IS IN ACCORDANCE WITH THE REQUIREMENTS AND THE INTENT OF THE JOB PLANS AND SPECIFICATIONS
31. SHOULD ANY DISAGREEMENT OR DIFFERENCE ARISE AS TO THE CLASSIFICATIONS, OR AS TO THE MEANING OF THE PLANS OR SPECIFICATIONS ON ANY POINT CONCERNING THE CHARACTER, ACCEPTABILITY AND NATURE OF THE SEVERAL KINDS OF WORK AND CONSTRUCTION THEREOF, THE DECISION OF THE DWM ENGINEER SHALL BE FINAL AND CONCLUSIVE AND BINDING UPON ALL PARTIES TO THE WORK.
32. THE MINIMUM DEPTH OF COVER SHALL BE FOUR (4) FEET AND THE MAXIMUM COVER SHALL BE FIVE (5) FEET. ANY DEVIATIONS MUST BE SPECIFICALLY APPROVED BY THE DWM ENGINEER.
33. WATER USED FOR ALL PURPOSES WILL BE SUPPLIED THROUGH A METERED CONNECTION WHICH THE APPLICANT (DEVELOPER OR CONTRACTOR) SHALL OBTAIN THROUGH THE DWM'S APPLICATIONS OFFICE. WATER USED FOR TESTING MAINS AND WASHING STREETS WILL BE MADE AVAILABLE TO THE REQUESTING APPLICANT (DEVELOPER OR CONTRACTOR) AT HIS EXPENSE AND AT THE NEAREST EXISTING FACILITIES OF THE DEPARTMENT. THE APPLICANT (DEVELOPER OR CONTRACTOR) SHALL FURNISH ALL NECESSARY PIPE OR HOSE EXTENSIONS AND TRANSPORTATION TO THE POINT OF USE. THE APPLICANT (DEVELOPER OR CONTRACTOR) SHALL EXERCISE CARE IN THE USE OF THE WATER.
34. SAFE STORAGE: THE APPLICANT (DEVELOPER OR CONTRACTOR) SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF MATERIAL UNTIL IT HAS BEEN INCORPORATED IN THE COMPLETED PROJECT. THE INTERIOR OF ALL PIPE, FITTINGS, AND OTHER APPURTENANCES SHALL BE KEPT FREE FROM DIRT AND FOREIGN MATTER AT ALL TIMES. PIPE, VALVES, AND FIRE HYDRANTS SHALL BE DRAINED AND STORED IN A MANNER THAT WILL PROTECT THEM FROM DAMAGE. ALL STORED PIPE SHALL BE SECURED IN SUCH A MANNER AS TO PREVENT MOVEMENT, INTERFERENCE AND/OR DANGER TO VEHICULAR AND PEDESTRIAN SAFETY AND INGRESS AND EGRESS.
35. PROPER IMPLEMENTS, TOOLS, AND FACILITIES SATISFACTORY TO THE INSPECTOR SHALL BE PROVIDED AND USED BY APPLICANT (DEVELOPER OR CONTRACTOR) FOR THE SAFE AND CONVENIENT EXECUTION OF THE WORK. ALL PIPE, FITTINGS, VALVES, AND FIRE HYDRANTS SHALL BE CAREFULLY LOWERED INTO THE TRENCH, PIECE BY PIECE, BY MEANS OF A DERRICK, ROPE, OR OTHER SUITABLE TOOLS OR EQUIPMENT, IN SUCH A MANNER AS TO PREVENT DAMAGE TO WATER MAIN MATERIALS AND PROTECTIVE COATINGS AND LININGS. UNDER NO CIRCUMSTANCES SHALL WATER MAIN MATERIAL BE DROPPED OR DUMPED INTO THE TRENCH.

				REVISION DATES			GENERAL NOTES PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION
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36. ALL PIPE, FITTINGS, VALVES, FIRE HYDRANTS, AND APPURTENANCES WHICH ARE LOADED OR UNLOADED BY HOIST OR SKIDS SHALL BE HANDLED IN SUCH A MANNER AS TO AVOID SHOCK OR DAMAGE. PIPE HANDLED ON A SKIDWAY SHALL NOT BE SKIDDED OR ROLLED AGAINST PIPE ALREADY ON THE GROUND.
37. PIPE SHALL BE SO HANDLED THAT THE COATING AND LINING WILL NOT BE DAMAGED. IF, HOWEVER, ANY PART OF THE COATING OR LINING IS DAMAGED, THE REPAIR SHALL BE MADE BY THE APPLICANT (DEVELOPER OR CONTRACTOR) AT THEIR EXPENSE IN A MANNER SATISFACTORY TO THE ENGINEER.
38. ANY MATERIAL THAT BECOMES DAMAGED BEFORE ACCEPTANCE OR FAILS WITHIN THE WARRANT PERIOD SHALL BE REPLACED BY THE DEVELOPER OR ITS CONTRACTOR AT THEIR EXPENSE. DAMAGES TO STREETS, SIDEWALKS ETC. DUE TO FAILURE OF THE NEW WATER MAIN DURING THE WARRANTY PERIOD SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.
39. EVERY PRECAUTION SHALL BE TAKEN TO PREVENT FOREIGN MATERIAL FROM ENTERING THE PIPE WHILE IT IS BEING PLACED IN THE TRENCH. IF THE PIPE LAYING CREW CANNOT PUT THE PIPE INTO TRENCH AND IN PLACE WITHOUT GETTING EARTH IN IT, THEN THE INSPECTOR MAY REQUIRE THAT BEFORE LOWERING THE PIPE INTO THE TRENCH, A HEAVY, TIGHTLY WOVEN CANVAS BAG OF SUITABLE SIZE BE PLACED OVER EACH END AND LEFT THERE UNTIL THE CONNECTION IS TO BE MADE TO THE ADJACENT PIPE. DURING LAYING OPERATIONS, NO DEBRIS, TOOLS, CLOTHING OR OTHER MATERIAL SHALL BE PLACED IN THE PIPE.
40. AFTER PLACING A LENGTH OF PIPE IN THE TRENCH, THE SPIGOT END SHALL BE CENTERED IN THE BELL AND THE PIPE FORCED HOME AND BROUGHT TO THE CORRECT LINE AND GRADE. THE PIPE SHALL BE SECURED IN PLACE WITH APPROVED BACKFILL MATERIAL AND TAMPED AROUND IT EXCEPT AT THE BELLS.
41. PIPE AND FITTINGS WHICH DO NOT ALLOW A SUFFICIENT AND UNIFORM SPACE FOR JOINTS SHALL BE REMOVED AND REPLACED WITH PIPE AND FITTINGS OF PROPER DIMENSIONS TO INSURE SUCH UNIFORM SPACE. PRECAUTIONS SHALL BE TAKEN TO PREVENT EARTH FROM ENTERING THE JOINT SPACE.
42. AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE SHALL BE CLOSED BY A WATERTIGHT PLUG OR OTHER MEANS APPROVED BY THE INSPECTOR. THE CONTRACTOR SHALL HAVE PLUGS AVAILABLE AT ALL TIMES. THIS PROVISION SHALL APPLY DURING THE NOON HOUR AS WELL AS OVERNIGHT. IF WATER IS IN THE TRENCH, THE SEAL SHALL REMAIN IN PLACE UNTIL THE TRENCH HAS BEEN PUMPED COMPLETELY DRY.
43. IT IS THE NORMAL PROCEDURE TO LAY THE PIPE WITH THE BELLS FACING IN THE DIRECTION IN WHICH THE WORK IS PROGRESSING, UNLESS THE MAIN IS BEING LAID DOWN A HILL IN WHICH CASE, THE JOINTS ARE TO BE REVERSED SO THAT THE BELLS POINT UP THE HILL. CARE MUST BE TAKEN THAT THE NEWLY INSTALLED PIPE LENGTHS DO NOT "SLIDE" AND CAUSE A SEPARATION IN THE PREVIOUSLY MADE-UP JOINTS.
44. ALL LUMPS, BLISTERS AND EXCESS COAL TAR COATING SHALL BE REMOVED FROM THE BELL AND SPIGOT, AND THE INSIDE OF THE BELLS SHALL BE WIRE BRUSHED AND WIPED CLEAN AND DRY AND FREE FROM OIL AND GREASE OR OTHER FOREIGN MATERIAL BEFORE THE PIPE IS LAID. THE INTERIOR OF EACH LENGTH OF PIPE SHALL BE BRUSHED CLEAN AS REQUIRED BY THE USE OF A CIRCULAR FIBER BRUSH HAVING A DIAMETER EQUAL TO THE INSIDE DIAMETER OF THE PIPE. THE BRUSH SHALL AT ALL TIMES BE SUSPENDED OFF THE GROUND WHEN NOT IN USE.
45. THE CUTTING OF PIPE FOR INSERTING VALVES, FITTINGS, OR CLOSURE PIECES SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER WITHOUT DAMAGE TO END PIPE OR LINING AND SO AS TO LEAVE A SMOOTH END AT RIGHT ANGLES TO THE AXIS OF THE PIPE. THE EDGE OF THE CUT SPIGOT SHALL BE BEVELED A MINIMUM OF 1/4-INCH WHEN "SLIP" JOINT CONNECTIONS ARE INVOLVED.
46. A WHEEL TYPE CUTTER OR POWER-DRIVEN SAW OR OTHER APPROVED EQUIPMENT SHALL BE USED FOR CUTTING 6-INCH, 8-INCH, AND 12-INCH DIAMETER PIPE INVOLVED.
47. ALL 16-INCH AND LARGER DIAMETER PIPE SHALL BE CUT WITH A POWER-DRIVEN CUTTER OR OTHER APPROVED EQUIPMENT.
48. THE FLAME CUTTING OF PIPE BY ANY MEANS WILL NOT BE ALLOWED.
49. JOINTS FOR MECHANICAL JOINT PIPE SHALL BE MADE BY EXPERIENCED MECHANICS. SOCKETS AND SPIGOTS SHALL BE WASHED WITH CLEAN SOAPY WATER BEFORE SLIPPING THE GLAND AND GASKET OVER SPIGOT. THE SPIGOT SHALL BE INSERTED IN THE SOCKET TO FULL DEPTH. THE GASKET SHALL BE BRUSHED WITH CLEAN SOAPY WATER AND SHALL BE PUSHED INTO POSITION MAKING SURE THAT THE GASKET IS EVENLY SEATED IN THE SOCKET.
50. THE GLAND SHALL BE PUSHED INTO POSITION FOR COMPRESSING THE GASKET, ALL BOLTS AND NUTS SHALL BE TIGHTENED TO A UNIFORM PERMANENT TIGHTNESS USING A TORQUE WRENCH SET TO THE MANUFACTURER'S SPECIFICATIONS. BOLTS SHALL BE TIGHTENED ALTERNATELY; FIRST BOLT TIGHTENED SHALL BE THE BOTTOM BOLT, SECOND SHALL BE THE TOP BOLT, AND SO ON UNTIL ALL BOLTS ARE PULLED UP. THE GLANDS AND BOLTS SHALL BE KEPT CLEAN AND SOCKETS, SPIGOTS, AND GASKETS SHALL BE KEPT CLEAN AND WET WITH CLEAN SOAPY WATER UNTIL EACH JOINT HAS BEEN COMPLETED.
51. JOINTING OF FLEXIBLE ("PUSH-ON") JOINT PIPE SHALL BE MADE BY EXPERIENCED MECHANICS. SOCKETS, SPIGOTS, AND GASKETS SHALL BE THOROUGHLY CLEANED BY WASHING WITH SOAP AND WATER AND WIPED CLEAN AND DRY BEFORE THE GASKET IS INSERTED INTO THE SOCKET RECESS. THE GASKET SHALL BE CAREFULLY PLACED INTO THE SOCKET RECESS BY HAND, AND EVENLY SEATED. A THIN FILM OF SPECIAL LUBRICANT (FURNISHED BY THE PIPE MANUFACTURER) SHALL BE APPLIED TO THE INSIDE OF THE GASKET AND SPIGOT END OF THE PIPE TO PERMIT EASY ENTRY OF THE PIPE INTO THE SOCKET. THE SPIGOT END OF THE PIPE SHALL BE PUSHED "HOME" BY THE USE OF A RATCHET TYPE ASSEMBLY TOOL. THE SPIGOT ENDS OF CUT PIPE SHALL BE DRESSED AND TAPERED WITH A COARSE FILE OR APPROVED BEVELING DEVICE IN A MANNER THAT WILL PROTECT THE GASKET FROM DAMAGE, PERMIT THE PROPER CENTERING OF PIPE IN GASKET, PROVIDE UNIFORM COMPRESSION OF GASKET, AND EASY ENTRY OF SPIGOT INTO SOCKET. CLOSURE OF FLEXIBLE JOINT PIPE SHALL BE MADE ONLY THROUGH THE USE OF MECHANICAL JOINT SLEEVES. CARE MUST BE TAKEN, IN THE USE AND STORAGE OF THE JOINT LUBRICANT, THE LUBRICANT MUST BE KEPT FREE FROM DIRT AND OTHER FOREIGN SUBSTANCES, SHOULD DIRT OR OTHER FOREIGN SUBSTANCES CONTAMINATE THE LUBRICANT, THEN THE CONTAMINATED LUBRICANT SHALL BE THROWN AWAY AND A NEW CAN OF JOINT LUBRICANT PROVIDED.
52. A CAST IRON VALVE BOX OR MASONRY VAULT SHALL BE PROVIDED FOR EVERY VALVE. A VALVE BOX SHALL BE PROVIDED FOR EVERY VALVE WHICH HAS NO GEARING OR OPERATING MECHANISM. THE VALVE BOX SHALL NOT TRANSMIT SHOCK OR STRESS TO THE VALVE AND SHALL BE CENTERED AND PLUMB OVER THE OPERATING NUT OF THE VALVE WITH THE BOX COVER FLUSH WITH THE SURFACE OF THE FINISHED PAVEMENT OR SUCH OTHER LEVEL AS MAY BE DIRECTED BY THE INSPECTOR. VALVE BOX LIDS SHALL BE SET AT FINISHED GRADE PRIOR TO POURING CONCRETE.
53. ALL STRAPS AND RODS SHALL BE COATED PRIOR TO INSTALLATION WITH AN APPROVED PROTECTIVE COATING. THE NUTS AND THREADS SHALL BE COATED BY THE AGENCY OR CONTRACTOR AFTER INSTALLATION WITH A COMPATIBLE PROTECTIVE MATERIAL.


55. FOR DUCTILE IRON PIPE, PIPE BEDDING CONSISTING OF SAND, GRAVEL SHALL BE PLACED IN BOTTOM OF TRENCH AND UP TO 1/8 PIPE DIAMETER BACKFILL THE TRENCH AND UP TO ONE (1) FOOT OVER THE TOP OF THE PIPE SHALL BE EARTH FILLED ONLY. FROM ONE (1) FOOT ABOVE THE TOP OF THE PIPE TO THE SUBGRADE OF THE PAVEMENT, EXCAVATED MATERIAL CONTAINING AN OCCASIONAL STONE OR BROKEN PIECE OF PAVEMENT NO LARGER THAN 6 INCHES IN THE GREATEST DIMENSION, MAY BE USED PROVIDED THE EXCAVATION, AND EXCAVATED MATERIAL HAS BEEN APPROVED BY THE INSPECTOR FOR BACKFILL.
56. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY A MODIFIED PROCTOR TEST (ASTM 0698).
57. IF ANY SETTLEMENT OF THE EARTH IS OBSERVED AT ANY TIME WITHIN ONE (1) YEAR AFTER THE ACCEPTANCE OF THE PROJECT, THEN THE APPLICANT (DEVELOPER OR CONTRACTOR) SHALL MAKE THE NECESSARY REPAIRS AT THEIR OWN EXPENSE. THE BACKFILL MATERIAL MAY BE SLIGHTLY MOISTENED, IF REQUIRED, TO SECURE THE REQUIRED COMPACTION. THE METHOD USED FOR BACKFILLING SHALL BE SUBJECT TO THE APPROVAL OF THE INSPECTOR.
58. THE CONTRACTOR SHALL NOTIFY THE DWM INSPECTOR AND RECEIVE APPROVAL FROM THE DWM INSPECTOR AT LEAST 72 HOURS IN ADVANCE OF ANY SERVICE DISRUPTIONS. CONTRACTOR SHALL COORDINATE WITH THE DWM INSPECTOR TO ENSURE A 48 HOUR NOTICE IS ISSUED; NOTICE TO CITIZENS VIA DOOR HANGERS AND/OR AUTOMATED PHONE MESSAGES PRIOR TO DISRUPTION.
59. THE CONTRACTOR SHALL NOTIFY THE CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT AT (404) 658-6500 FOR ANY EMERGENCY NOTIFICATIONS OR REPORTING. FOR PROJECT SPECIFIC INFORMATION, PLEASE CONTACT THE CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT AT (404) 546-3240.
60. THE CITY OF ATLANTA CONSTRUCTION INSPECTION AND CONSTRUCTION MANAGEMENT CONTACT INFORMATION SHALL BE SUPPLIED AT THE TIME OF THE PROJECT PRE-CONSTRUCTION MEETING.
61. CARE SHALL BE TAKEN TO PROTECT THE EXISTING WATER UTILITY INFRASTRUCTURE DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO SUBMIT, FOR APPROVAL, A DETAILED PLAN OUTLYING THE PROPOSED METHOD OF PROTECTING AND SUPPORTING THE EXISTING WATER MAIN AND WATER UTILITY INFRASTRUCTURE DURING CONSTRUCTION. THIS PLAN SHALL BE SUBMITTED TO THE CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT. THE CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT WILL HAVE THIRTY (30) DAYS TO REVIEW AND RESPOND TO ALL SUBMITTALS.
62. THE CONTRACTOR SHALL PROVIDE A SET OF AS-BUILT PLANS FOR ALL WATER UTILITY INFRASTRUCTURE RELOCATION ADJUSTMENT WORK. AS-BUILT PLANS ARE TO BE PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT.
63. CONTRACTOR SHALL INCLUDE CONSTRUCTION OF A NEW VAULT AS NEEDED AT NO ADDITIONAL COST TO OWNER FOR PAY ITEM 670-9737 RELOCATE EXISTING METER, INCLUDING BYPASS AND VAULT.
64. CONTRACTOR SHALL NOTIFY CITY OF ANY LEAKING OR DAMAGED FIRE HYDRANTS IN WRITING PRIOR TO START OF CONSTRUCTION. IF THE CONTRACTOR FAILS TO NOTIFY THE CITY IN WRITING PRIOR TO CONSTRUCTION ALL COSTS ASSOCIATED WITH THE REPAIR OR REPLACEMENT OF DAMAGED OR LEAKING HYDRANTS SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
65. ALL ABANDONED PIPE SHALL BE INSPECTED BY CONTRACTOR AND CONFIRMED AS ASBESTOS FREE. ANY ABANDONED PIPE CONTAINING ASBESTOS SHALL BE REMOVED FROM SITE AT NO ADDITIONAL COST.
66. PAYMENT FOR NEW FIRE HYDRANTS SHALL INCLUDE THE 6-INCH GATE VALVE AND CONNECTION TO THE MAIN
67. PRIOR TO THE CITY OF ATLANTA FINAL INSPECTION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL SUBMIT IN ELECTRONIC AND PAPER FORMAT A FINAL AS-BUILT PLAN WITH A GA PROFESSIONAL ENGINEER SEAL ATTACHED THAT MEETS THE FOLLOWING CONDITIONS:
 - a) The proposed and final water line plat required under these provisions shall consist of a revised and corrected plan and profile in reproducible form containing the information previously outlined with the further provision that said final plat shall reflect "as-built" locations of facilities determined by review or resurvey after construction. As-built drawings must be georeferenced to the U.S. State Plane Coordinate System, NAD83 GA West Zone, US Survey Feet. All drawings must contain two reference pins (i.e. property corners) which are labeled and tied to the Fulton County (FC) GPS monument network. All infrastructure assets (i.e. fire hydrants, manholes, valves, pipe bends, etc.) are to be shown by applicable symbols on the drawings and also presented in tabular format to include description and accurate coordinate location. The size of the plans will be standard 24' x 36". ALL DRAWING SHEETS IN A SET FOR A PROPOSED PROJECT SHALL BE OF THE SAME SIZE.
 - b) Certificate: The final water plat will also contain a certificate signed by the Contractors, Engineer responsible for the Construction Administration containing the following statements:

I certify that the date reflected on this drawing has been verified in the field and to the best of my knowledge accurate and correct and in general compliance with existing Rules and Regulations Governing Installation of Water Line in the Atlanta Water Distribution System.

SIGNED (GA PROFESSIONAL ENGINEER SEAL) DATE



Know what's below.
Call before you dig.

	REVISION DATES		GENERAL NOTES	
			PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION	
			CHECKED: _____	DATE: _____
			BACKCHECKED: _____	DATE: _____
			CORRECTED: _____	DATE: _____
		VERIFIED: _____	DATE: _____	DRAWING No. 44-0003

UTILITY LINECODES			
EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
			ELECTRIC
			ELECTRIC/TELECOMMUNICATIONS
			ELECTRIC/CABLE TV
			ELECTRIC/TRAFFIC CONTROL
			ELECTRIC/TELECOMMUNICATIONS/CABLE TV
			ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
			ELECTRIC/CABLE TV/TRAFFIC CONTROL
			ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
			GUY WIRE
			TELECOMMUNICATIONS
			TELECOMMUNICATIONS/TRAFFIC CONTROL
			TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
			CABLE TV
			CABLE TV/TRAFFIC CONTROL
			TRAFFIC CONTROL
			ELECTRIC (OL-D)
			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)
			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

UTILITY SYMBOLS						
EXISTING	PROPOSED	TEMPORARY	EXISTING	PROPOSED	TEMPORARY	
			FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS			
			MISCELLANEOUS			
				LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION		
				TEST HOLE (OL-A ONLY)		
				END OF INFORMATION		
				QUALITY LEVEL (OL) DELINEATION		
				POLE ID		
				SANITARY SEWER MANHOLE (SSMH) ID		
				CONFLICT LOCATION (UTILITY IMPACT ANALYSIS (UIA) ONLY)		
				END OF UTILITY		
			MULTI-UTILITY IDENTIFICATION			
				UTILITY LINE 1 UTILITY LINE 2 UTILITY LINE 3		
			ABBREVIATIONS			
			MANHOLE = LENGTH x WIDTH x DEPTH	PVC	POLY VINYL CHLORIDE	
			PR	TELEPHONE PAIR SIZE	FIBER STRAND SIZE	
			SVC	SERVICE, UNKNOWN SIZE/TYPE	TCP	TERRA COTTA PIPE
			MTD	MULTIPLE TILE DUCT	ACP	ASBESTOS CONCRETE PIPE
			MCD	MULTIPLE CONCRETE DUCT	VCP	VITRIFIED CLAY PIPE
			DIP	DUCTILE IRON PIPE	STD	SINGLE TILE DUCT
			TRD	TRANSITE (ASBESTOS) DUCT	SCPD	SINGLE CREOSOTE PINE DUCT
			FOC	FIBER OPTIC CABLE	SD	SPLIT DUCT
			CIP	CAST IRON PIPE	3PH	3 PHASE ELECTRIC
			SC	SCREEN CABLE		
			PE	POLYETHYLENE		

QUALITY LEVELS AND DEFINITIONS

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

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

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

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

TELEPHONE PAIR SIZE TABLE

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

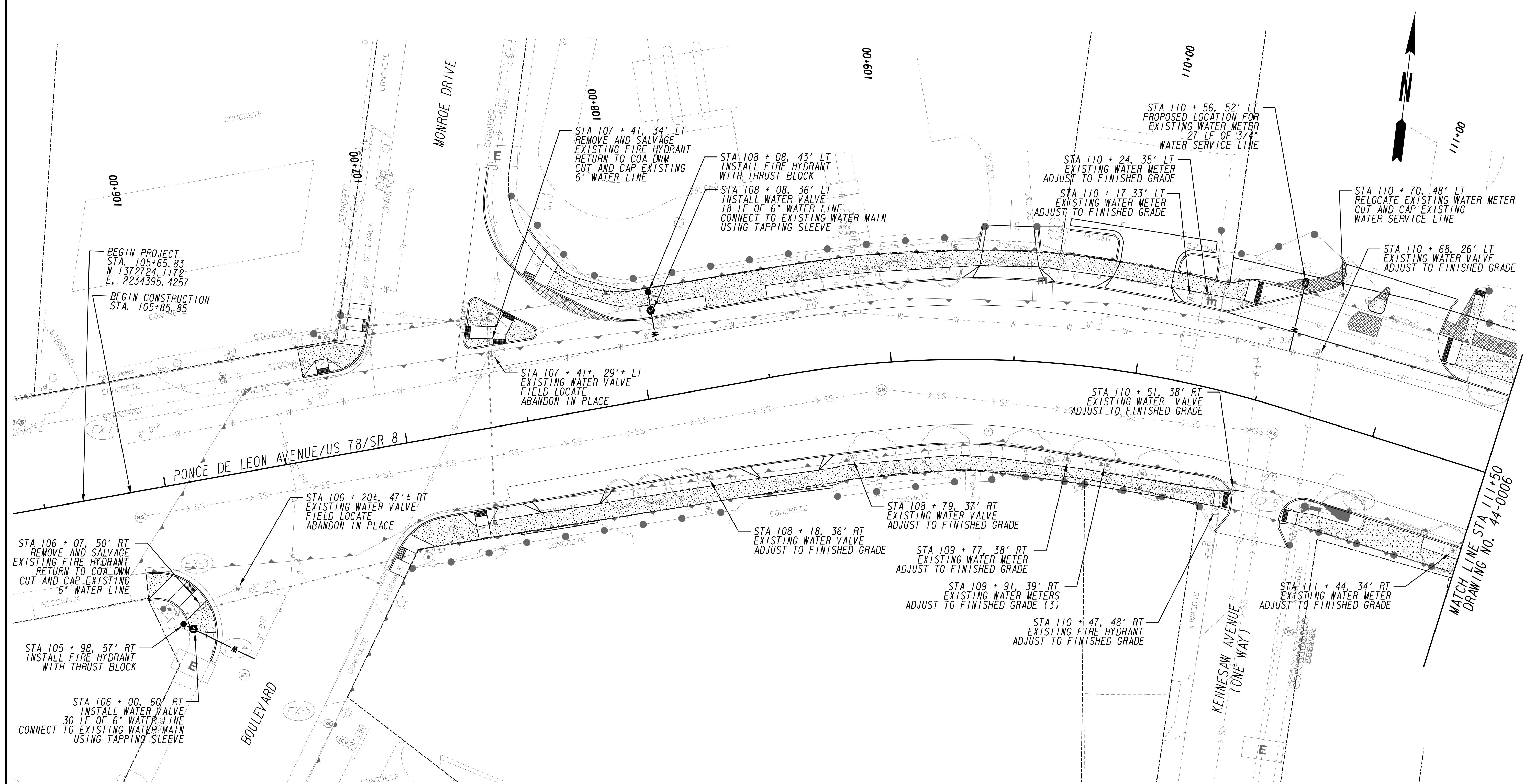


REVISION DATES

LEGEND

PONCE DE LEON AVENUE COMPLETE STREET
RETROFIT AND BELTLINE CONNECTION

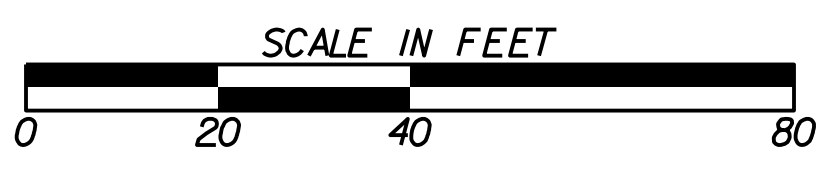
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BACKCHECKED:	DATE:	44-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Know what's below.
Call before you dig.

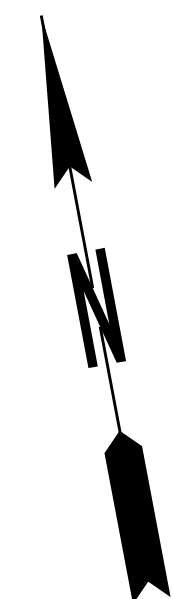
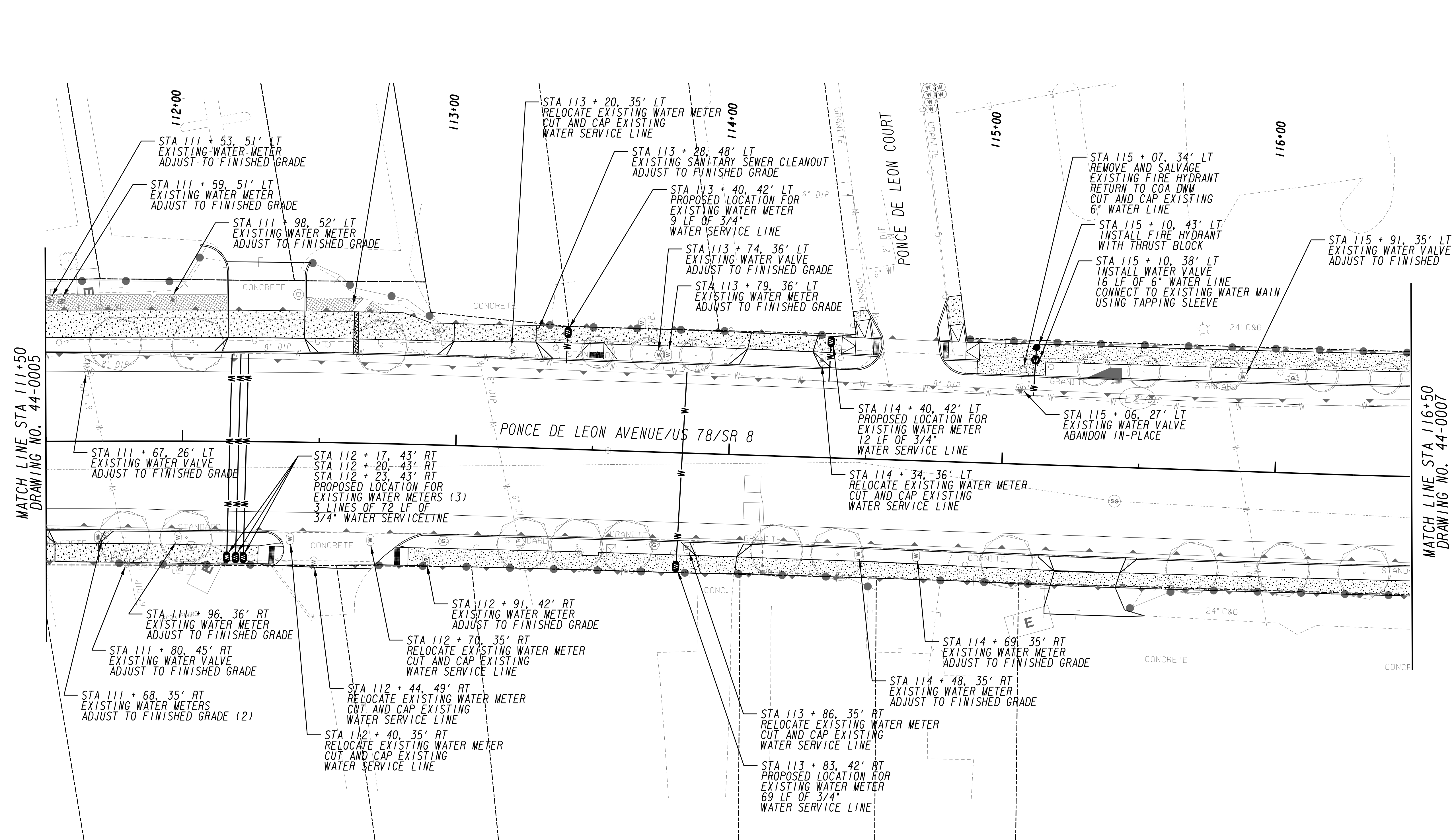
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.	---



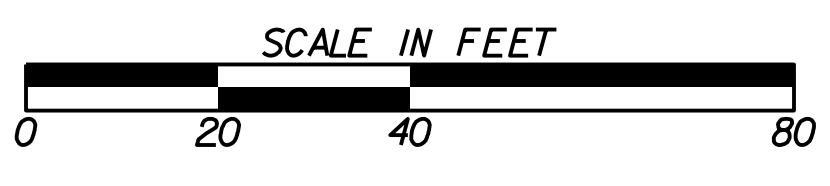
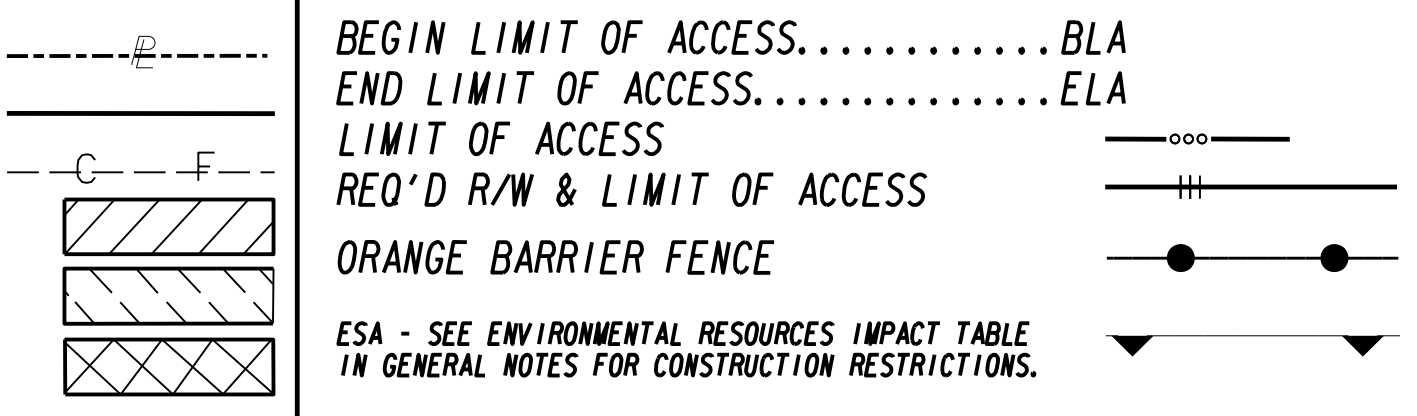
REVISION DATES	

UTILITY RELOCATION PLANS		
PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	44-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



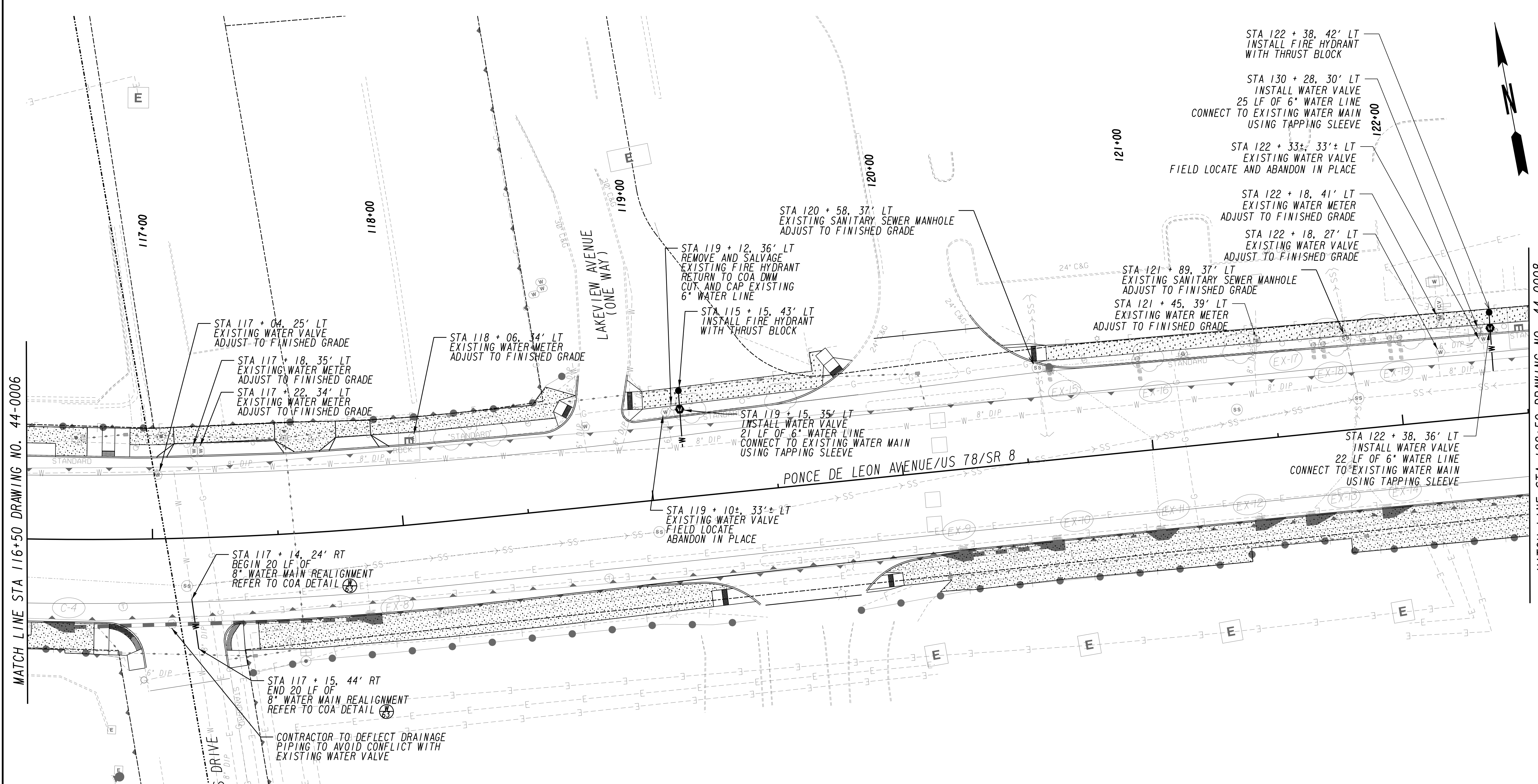
Know what's below. Call before you dig.

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



REVISION DATES	

UTILITY RELOCATION PLANS			
PONCE DE LEON AVENUE COMPLETE STREET			
RETROFIT AND BELTLINE CONNECTION			
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BACKCHECKED:	DATE:	44-0006	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



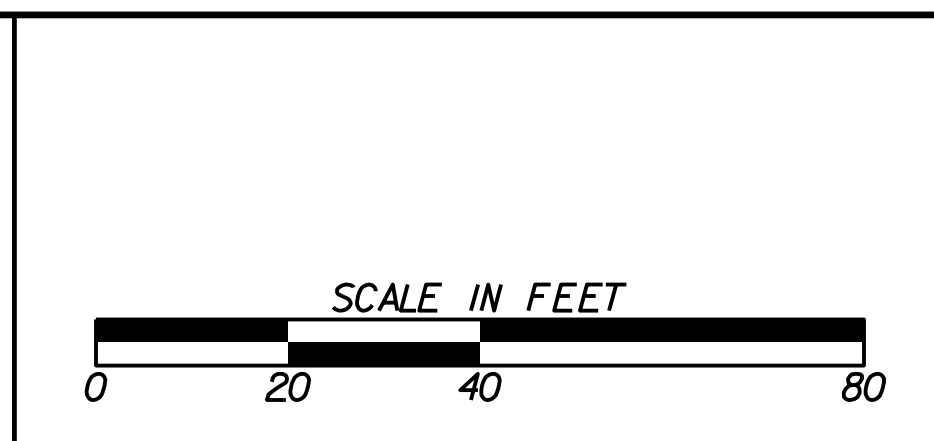
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MATCH LINE STA 122+50 DRAWING NO. 44-0008



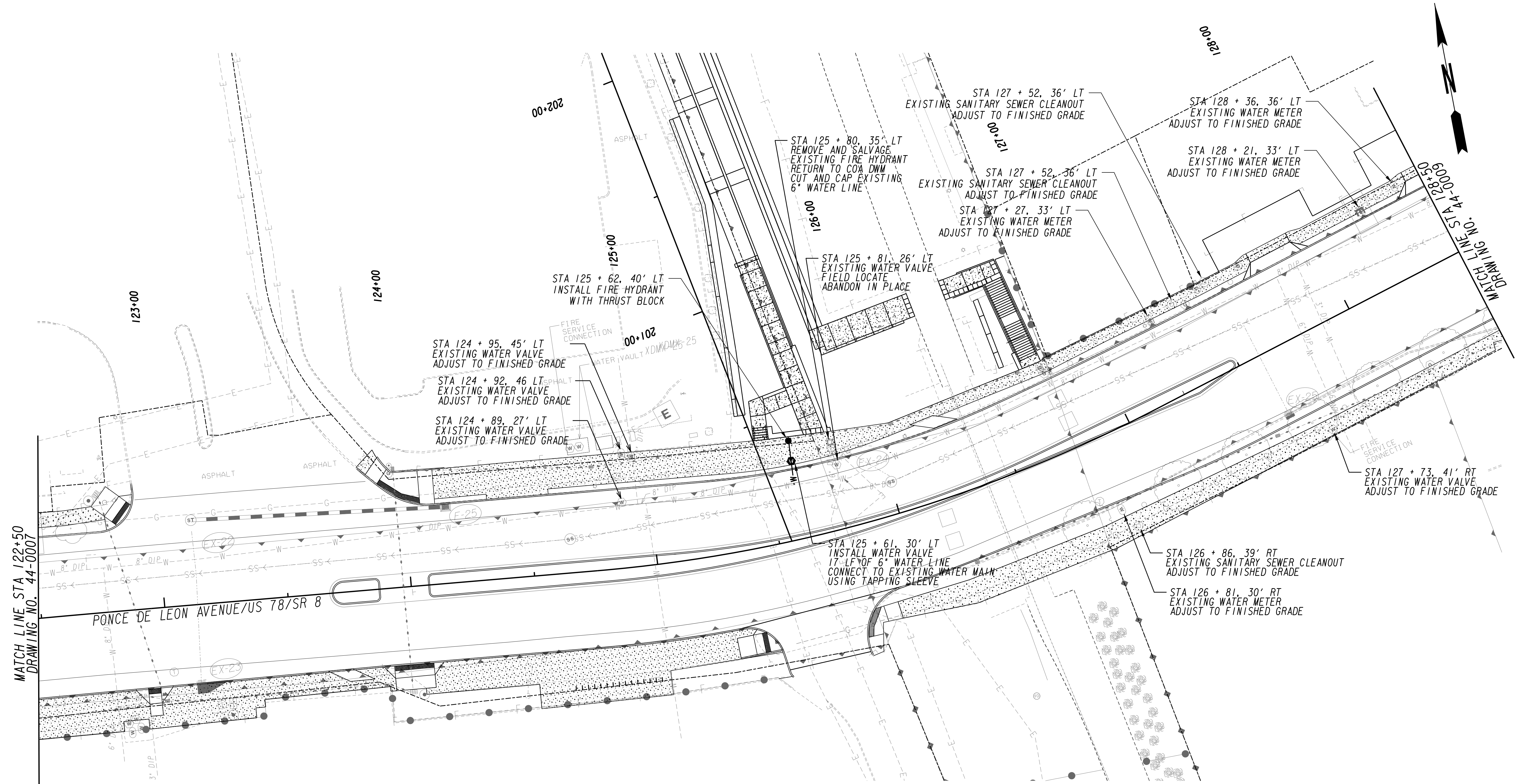
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

--- BLA
 --- ELA
 --- LIMIT OF ACCESS
 --- REQ'D R/W & LIMIT OF ACCESS
 --- ORANGE BARRIER FENCE
 --- ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE
 IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.



REVISION DATES	

UTILITY RELOCATION PLANS			
PONCE DE LEON AVENUE COMPLETE STREET			
RETROFIT AND BELTLINE CONNECTION			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	44-0007	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



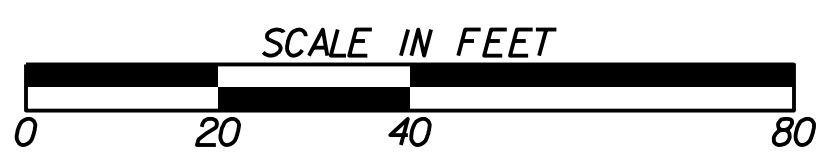
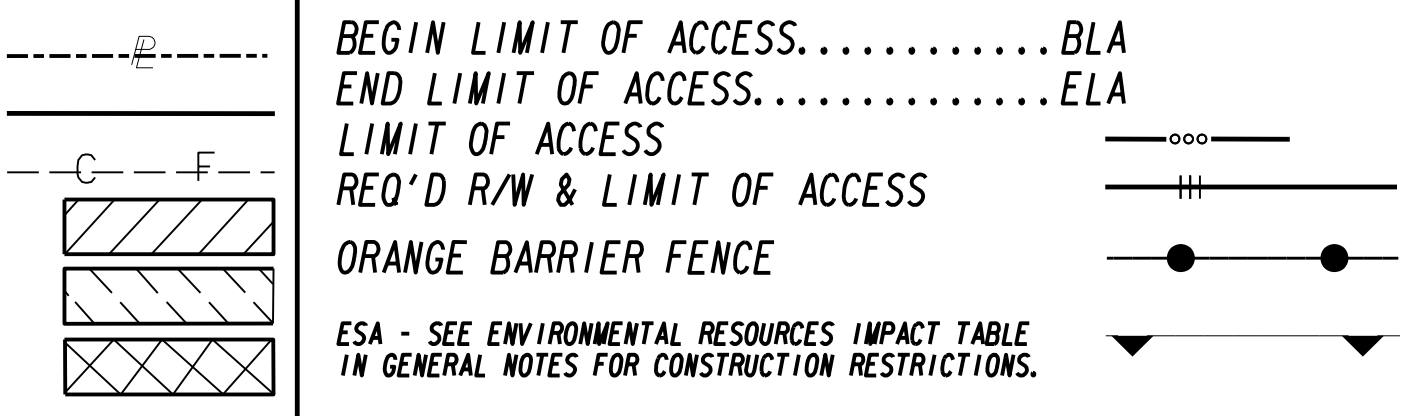
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DRAWING NO. 44-0007

MATCH LINE STA 128+50
DRAWING NO. 44-0008



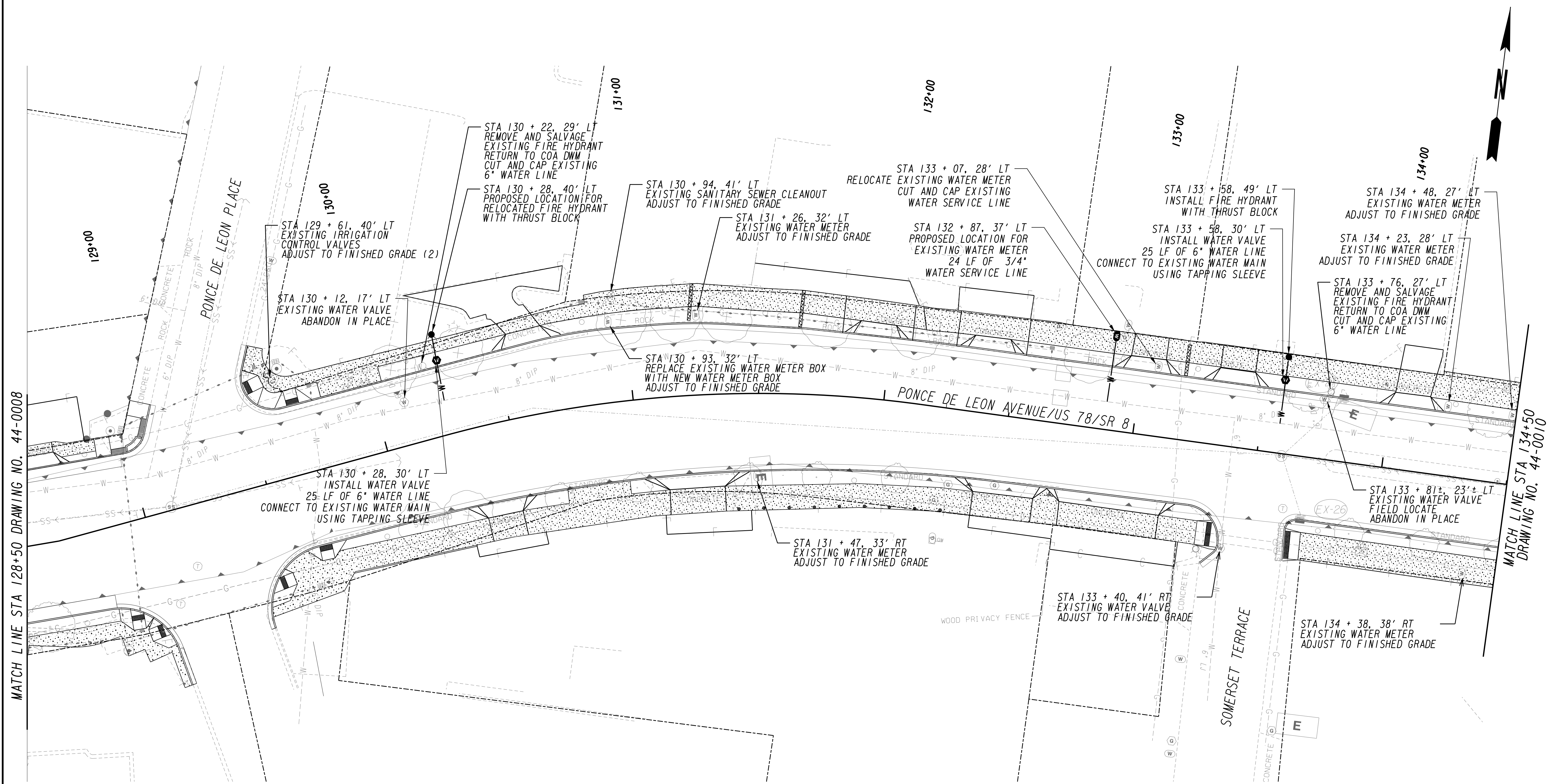
Know what's below.
Call before you dig.

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



REVISION DATES	

UTILITY RELOCATION PLANS		
PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	44-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	



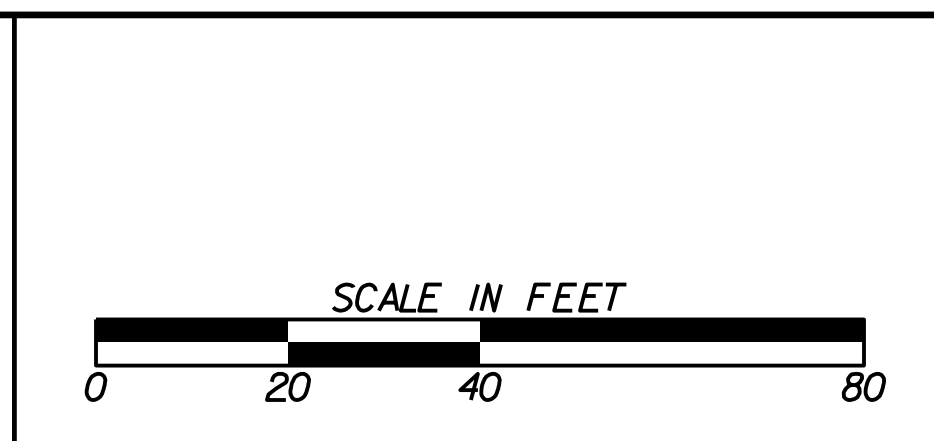
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MATCH LINE STA 134+50 DRAWING NO. 44-0010



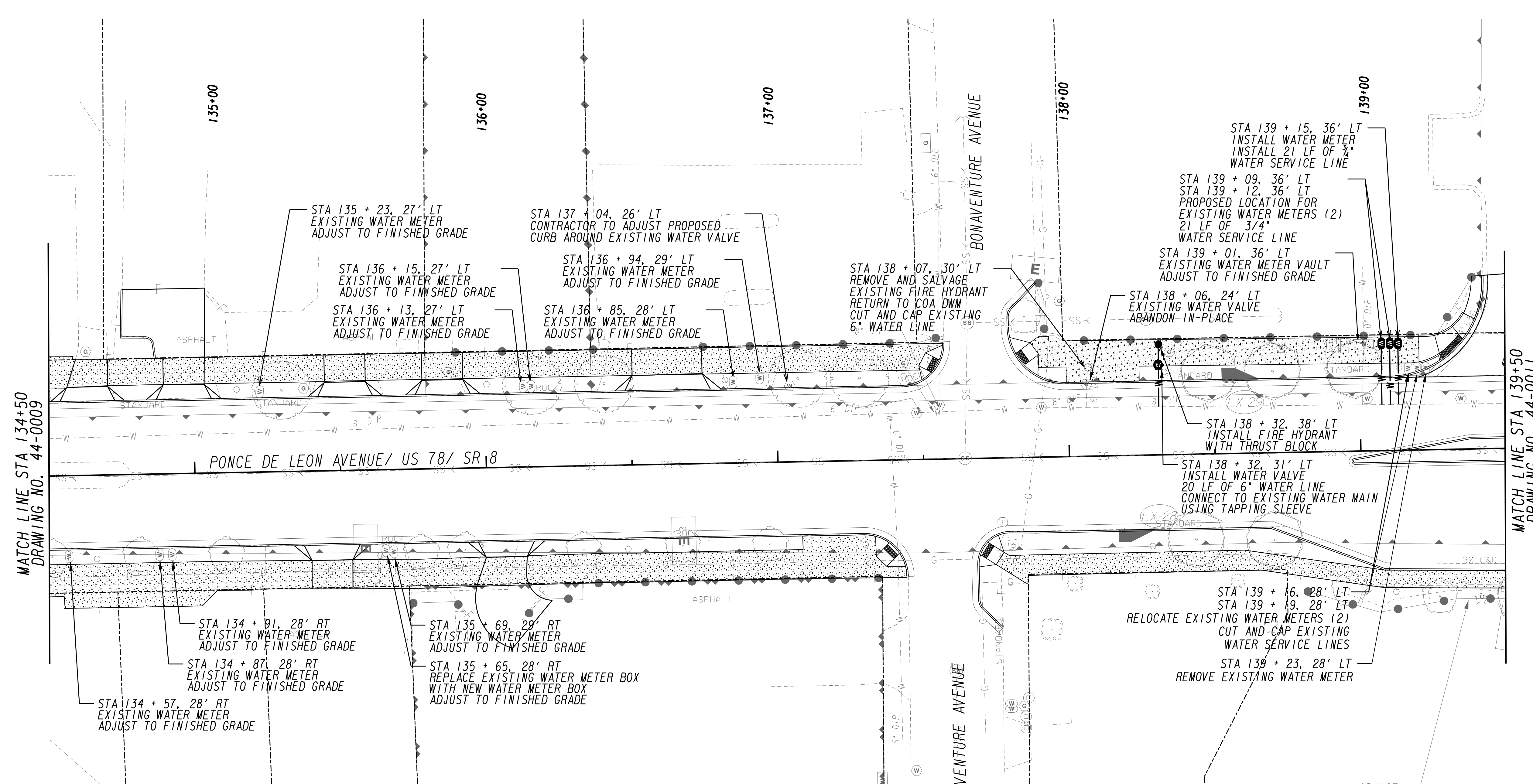
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.	---



REVISION DATES	

UTILITY RELOCATION PLANS		
PONCE DE LEON AVENUE COMPLETE STREET		
RETROFIT AND BELTLINE CONNECTION		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	44-0009
CORRECTED:	DATE:	
VERIFIED:	DATE:	

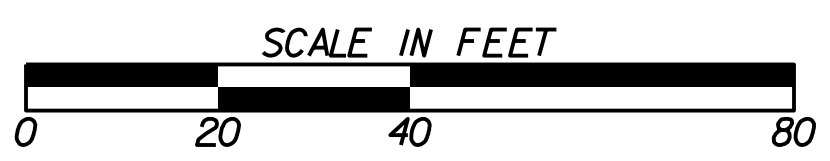
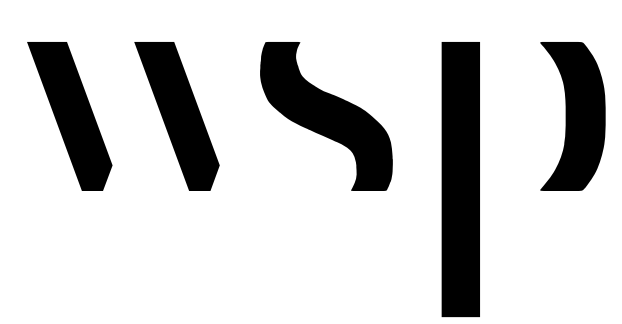
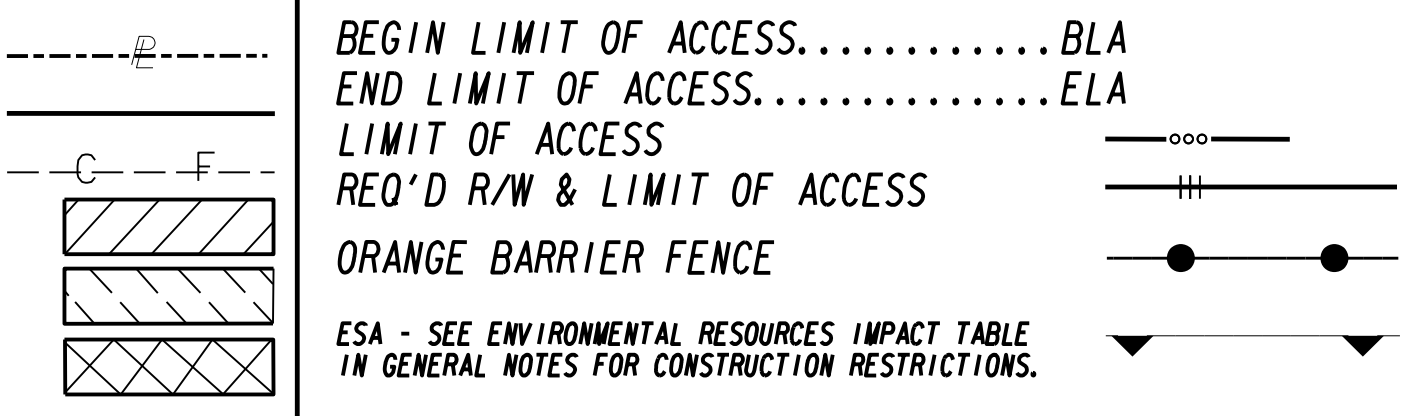


MATCH LINE STA 134+50
DRAWING NO. 44-0009

MATCH LINE STA 139+50
DRAWING NO. 44-0011

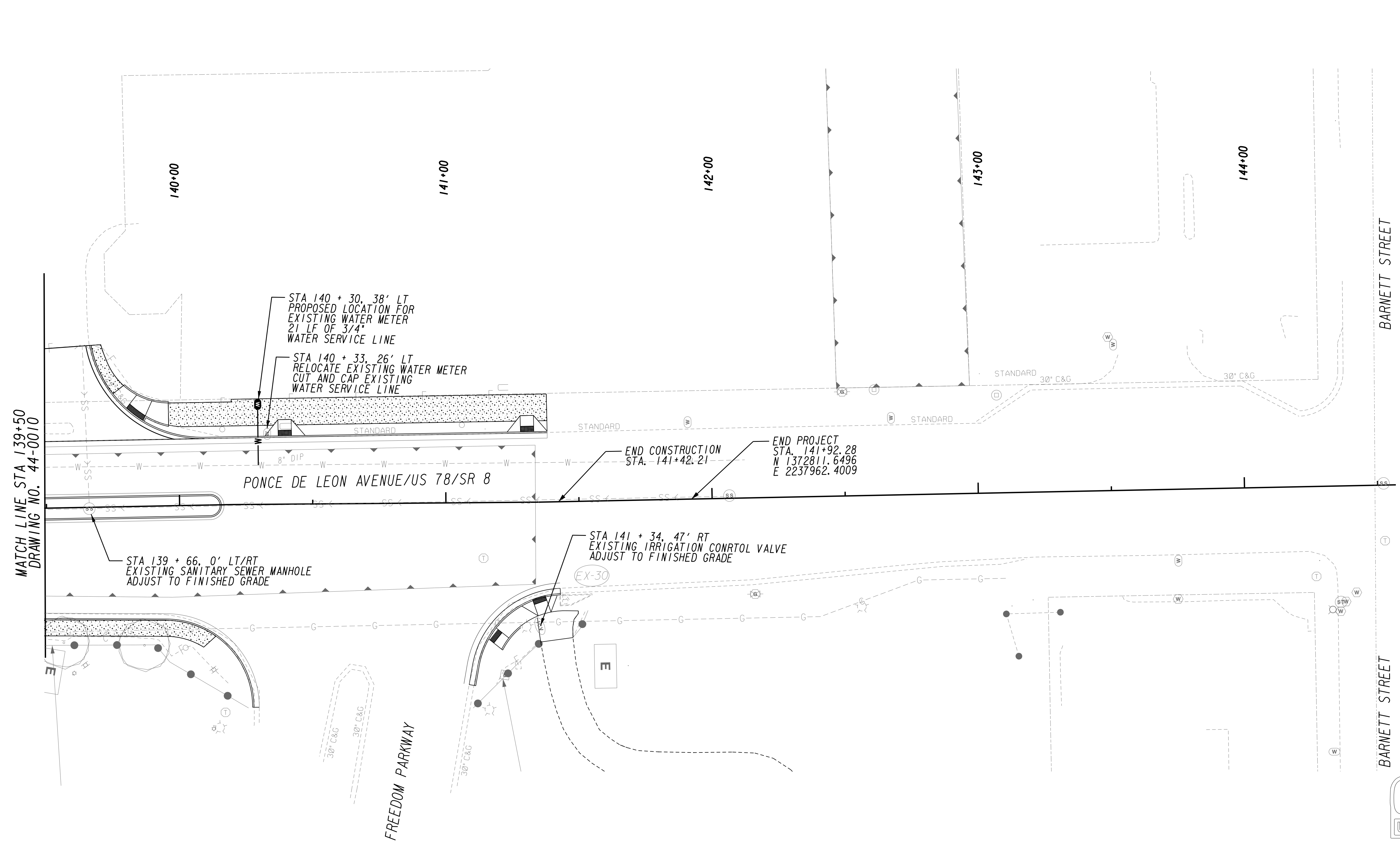


PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



REVISION DATES	

UTILITY RELOCATION PLANS PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	44-0010	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

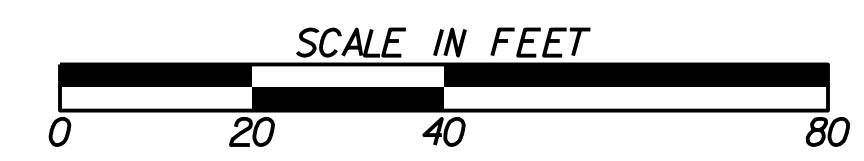
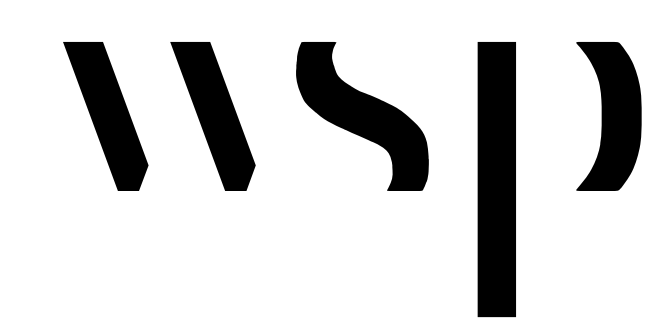


MATCH LINE STA. 139+50
DRAWING NO. 44-0010



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--- BEGIN LIMIT OF ACCESS.....BLA
---F--- END LIMIT OF ACCESS.....ELA
---C--- LIMIT OF ACCESS
---F--- REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE
IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.



REVISION DATES	

UTILITY RELOCATION PLANS		
PONCE DE LEON AVENUE COMPLETE STREET		
RETROFIT AND BELTLINE CONNECTION		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	44-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MINIMUM DIMENSIONS IN FEET FOR CONCRETE BLOCKING

BEND SIZE	A	B	C	D	VOLUME CUBIC YARD	
6"	1.0	1.0	7"	1.0	0.03	
8"	1.0	1.25	7"	1.0	0.04	
11 1/4"	1.0	2.0	11"	2.0	0.1	
16"	2.0	3.0	15"	2.0	0.3	
20"	2.0	3.0	19"	3.0	0.5	
24"	3.0	4.0	22"	3.0	0.8	
6"	1.0	1.5	7"	1.0	0.04	
8"	1.0	2.0	7"	2.0	0.1	
12"	2.0	3.0	11"	2.0	0.3	
16"	2.0	4.0	15"	3.0	0.6	
20"	3.0	5.0	19"	3.0	1.1	
24"	4.0	6.0	22"	4.0	2.3	
6"	1.5	2.0	7"	1.5	0.11	
8"	2.0	3.0	7"	2.0	0.3	
12"	2.0	4.0	11"	3.0	0.7	
16"	3.0	5.0	15"	4.0	1.4	
20"	4.0	6.0	19"	5.0	2.8	
24"	5.0	8.0	22"	6.0	5.0	
6"	1.75	2.5	7"	2.0	0.2	
8"	2.0	3.0	7"	3.0	0.4	
12"	4.0	6.0	11"	4.0	2.1	
16"	4.0	7.0	15"	5.0	3.1	
20"	5.0	8.0	19"	7.0	5.3	
24"	6.0	10.0	22"	8.0	10.5	
TEES AND PLUGS	6"	1.5	2.0	7"	1.75	0.13
	8"	2.0	3.0	7"	2.0	0.3
	12"	2.0	4.0	11"	4.0	0.8
	16"	3.0	5.0	15"	5.0	1.8
	20"	4.0	7.0	19"	6.0	3.9
	24"	5.0	8.0	22"	7.0	5.5

NOTES:
 1. SOIL CONDITIONS SHALL BE VERIFIED BY THE ENGINEER BEFORE THRUST BLOCK DESIGN IS IMPLEMENTED.
 2. DIMENSION OF THRUST BLOCK IS BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE AND 250 LBS. PER SQUARE INCH TEST PRESSURE.
 3. CONCRETE SHALL BE CLASS B, 3000 P.S.I. HIGH EARLY.

TYPICAL HORIZONTAL THRUST BLOCK

MINIMUM DIMENSIONS IN FEET FOR CONCRETE BLOCKING

BEND SIZE	A	B	C	D	VOLUME CUBIC YARD	
6"	1.0	1.0	7"	1.0	0.03	
8"	1.0	1.25	7"	1.0	0.04	
11 1/4"	1.0	2.0	11"	2.0	0.1	
16"	2.0	3.0	15"	2.0	0.3	
20"	2.0	3.0	19"	3.0	0.5	
24"	3.0	4.0	22"	3.0	0.8	
6"	1.0	1.5	7"	1.0	0.04	
8"	1.0	2.0	7"	2.0	0.1	
12"	2.0	3.0	11"	2.0	0.3	
16"	2.0	4.0	15"	3.0	0.6	
20"	3.0	5.0	19"	3.0	1.0	
24"	4.0	6.0	22"	4.0	2.3	
6"	1.5	2.0	7"	1.5	0.11	
8"	2.0	3.0	7"	2.0	0.3	
12"	2.0	4.0	11"	3.0	0.7	
16"	3.0	5.0	15"	4.0	1.4	
20"	4.0	6.0	19"	5.0	2.8	
24"	5.0	8.0	22"	6.0	5.0	
6"	1.75	2.5	7"	2.0	0.2	
8"	2.0	3.0	7"	3.0	0.4	
12"	4.0	6.0	11"	4.0	2.1	
16"	4.0	7.0	15"	5.0	3.1	
20"	5.0	8.0	19"	7.0	5.3	
24"	6.0	10.0	22"	8.0	10.5	
TEES AND PLUGS	6"	1.5	2.0	7"	1.75	0.13
	8"	2.0	3.0	7"	2.0	0.3
	12"	2.0	4.0	11"	4.0	0.5
	16"	3.0	5.0	15"	5.0	1.5
	20"	4.0	7.0	19"	6.0	3.5
	24"	5.0	8.0	22"	7.0	5.5

NOTES:
 1. ENGINEER SHALL VERIFY SOIL CONDITIONS BEFORE THRUST BLOCK DESIGN IS IMPLEMENTED.
 2. DIMENSION OF THRUST BLOCK IS BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE AND 250 LBS. PER SQUARE INCH TEST PRESSURE.
 3. CONCRETE SHALL BE CLASS B, 3000 P.S.I. HIGH EARLY.

TYPICAL DOWNWARD THRUST BLOCK

DEADMAN DETAILS

BEND SIZE	VOLUME CUBIC YARD	NUMBERS OF LADDERS	SIZE OF BOLTS
6"	0.3	1	3/4" X 3"
8"	0.6	1	3/4" X 3"
10"	1.0	2	3/4" X 4"
12"	1.4	2	3/4" X 4"
16"	2.4	2	(2) 3/4" X 5"
20"	3.8	2	(2) 3/4" X 5"
24"	5.3	2	(2) 3/4" X 6"
6"	0.7	1	3/4" X 3"
8"	1.2	1	3/4" X 3"
10"	1.7	2	3/4" X 4"
12"	2.7	2	3/4" X 4"
16"	4.8	2	(2) 3/4" X 5"
20"	7.4	2	(2) 3/4" X 5"
24"	10.3	2	(2) 3/4" X 6"
6"	1.2	1	3/4" X 3"
8"	2.2	1	3/4" X 3"
10"	3.3	2	3/4" X 4"
12"	4.3	2	3/4" X 4"
16"	8.8	2	(2) 3/4" X 5"
20"	13.7	2	(2) 3/4" X 5"
24"	19.8	2	(2) 3/4" X 5"
6"	1.8	1	(2) 3/4" X 6"
8"	3.1	1	(2) 3/4" X 3"
10"	5.3	2	3/4" X 4"
12"	7.0	2	3/4" X 4"
16"	12.4	2	(2) 3/4" X 5"
20"	19.4	2	(2) 3/4" X 5"
24"	22.0	2	(2) 3/4" X 5"

NOTES:
 1. ENGINEER SHALL VERIFY SOIL CONDITIONS BEFORE THRUST BLOCK DESIGN IS IMPLEMENTED.
 2. DESIGN OF THRUST BLOCK IS BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE AND 250 LBS. PER SQUARE INCH TEST PRESSURE.
 3. CONCRETE SHALL BE CLASS B, 3000 P.S.I. HIGH EARLY.

TYPICAL UPWARD THRUST DEADMAN

TYPICAL MANUAL AIR VALVE

ELECTRONIC BALL MARKER DETAIL

TYPICAL FIRE HYDRANT

ASPHALT & CONCRETE STREETCUT AND PAVEMENT REPLACEMENT

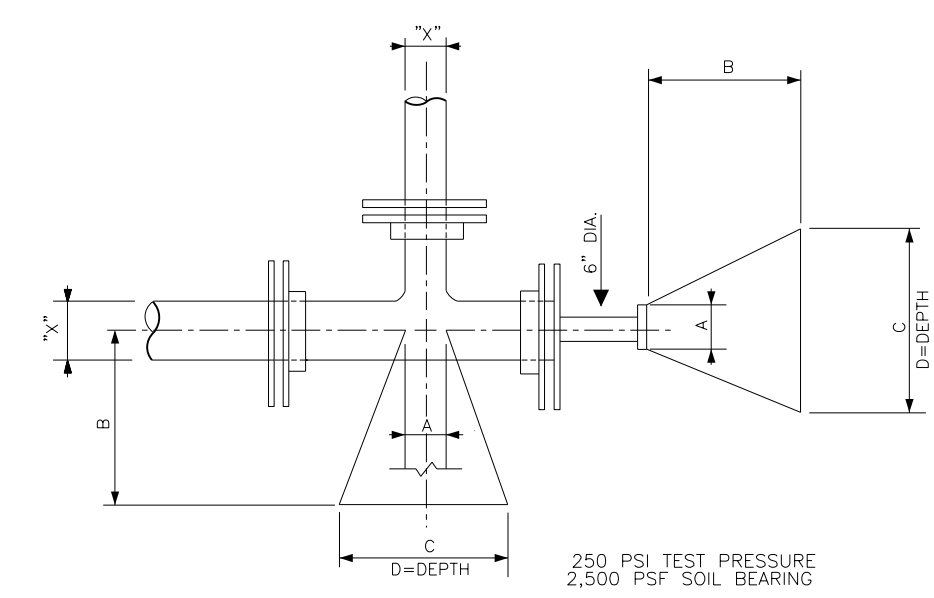
PLAN VIEW CUT AND PLUG/VALVE ABANDONMENT DETAIL

TYPICAL LONG SIDE AND SHORT SIDE SERVICE CONNECTION

WATER MAIN REALIGNMENT DETAIL

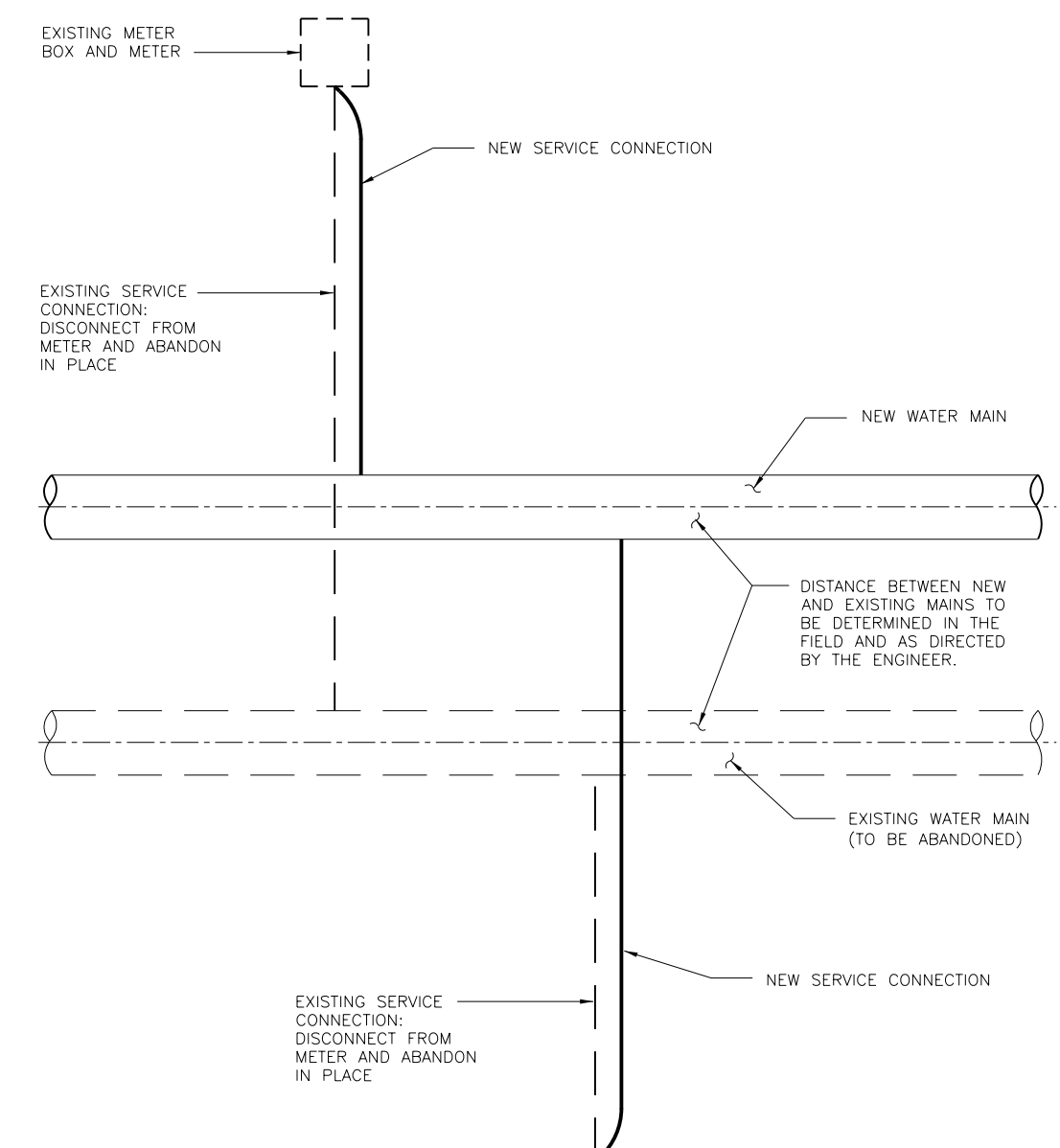


REVISION DATES		CONSTRUCTION DETAILS	
		PONCE DE LEON AVENUE COMPLETE STREET	
		UTILITY RELOCATION PLANS	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	44-0012	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



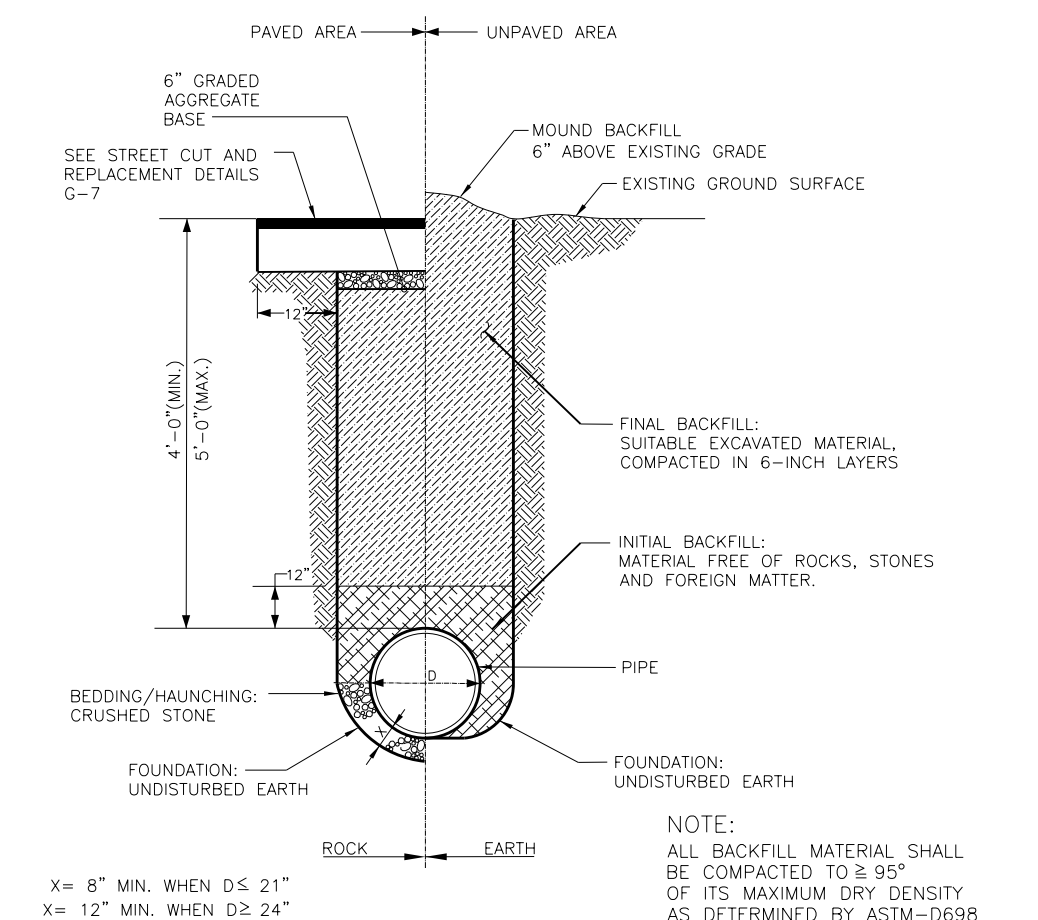
BLOCKING DIMENSIONS					
DEAD END & TEES	X*	A	B	C	D
24"	2'-0"	4'-6"	14.0'	7.0'	
20"	1'-8"	3'-9"	11.7'	5.9'	
16"	1'-3"	3'-3"	9.5'	4.7'	
12"	1'-0"	2'-6"	7.1'	3.6'	
10"	1'-0"	2'-0"	6.0'	3.0'	
8"	0'-10"	1'-9"	4.9'	2.5'	
6"	0'-8"	1'-3"	3.7'	1.8'	

TYPICAL BLOCKING TEE AND DEAD END



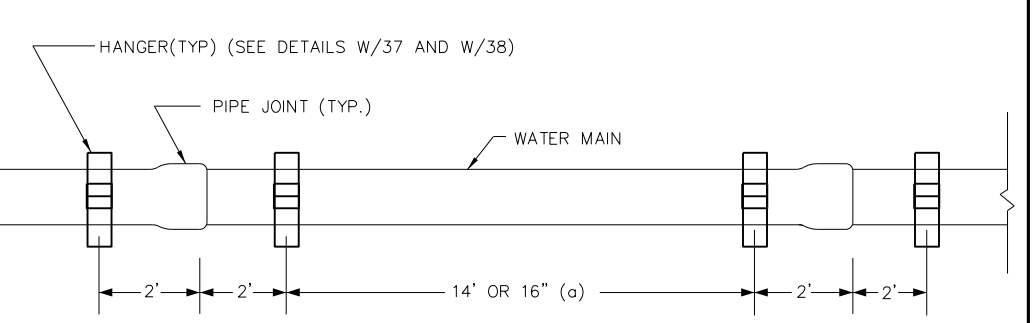
NOTES:
 1. REFER TO SECTION 02668 OF THE SPECIFICATIONS.
 2. THIS DETAIL IS FOR SERVICE CONNECTIONS RANGING IN SIZE FROM 3/4" TO 2 INCHES IN DIAMETER.
 3. LARGER SERVICE CONNECTIONS TO BE TRANSFERRED AS DIRECTED BY THE ENGINEER IN THE FIELD.

TYPICAL SCHEMATIC FOR TRANSFERRED WATER SERVICE CONNECTION



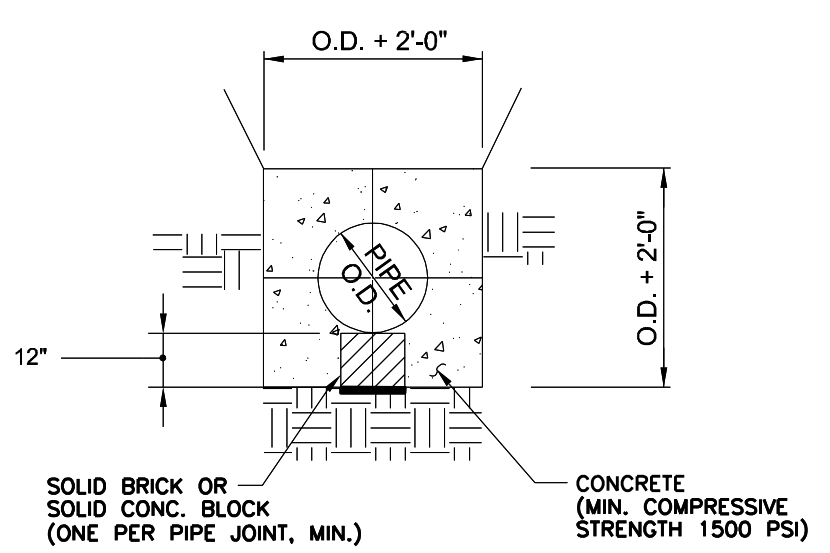
NOTE:
 ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM-D698

DUCTILE IRON WATER MAIN TRENCH SECTION

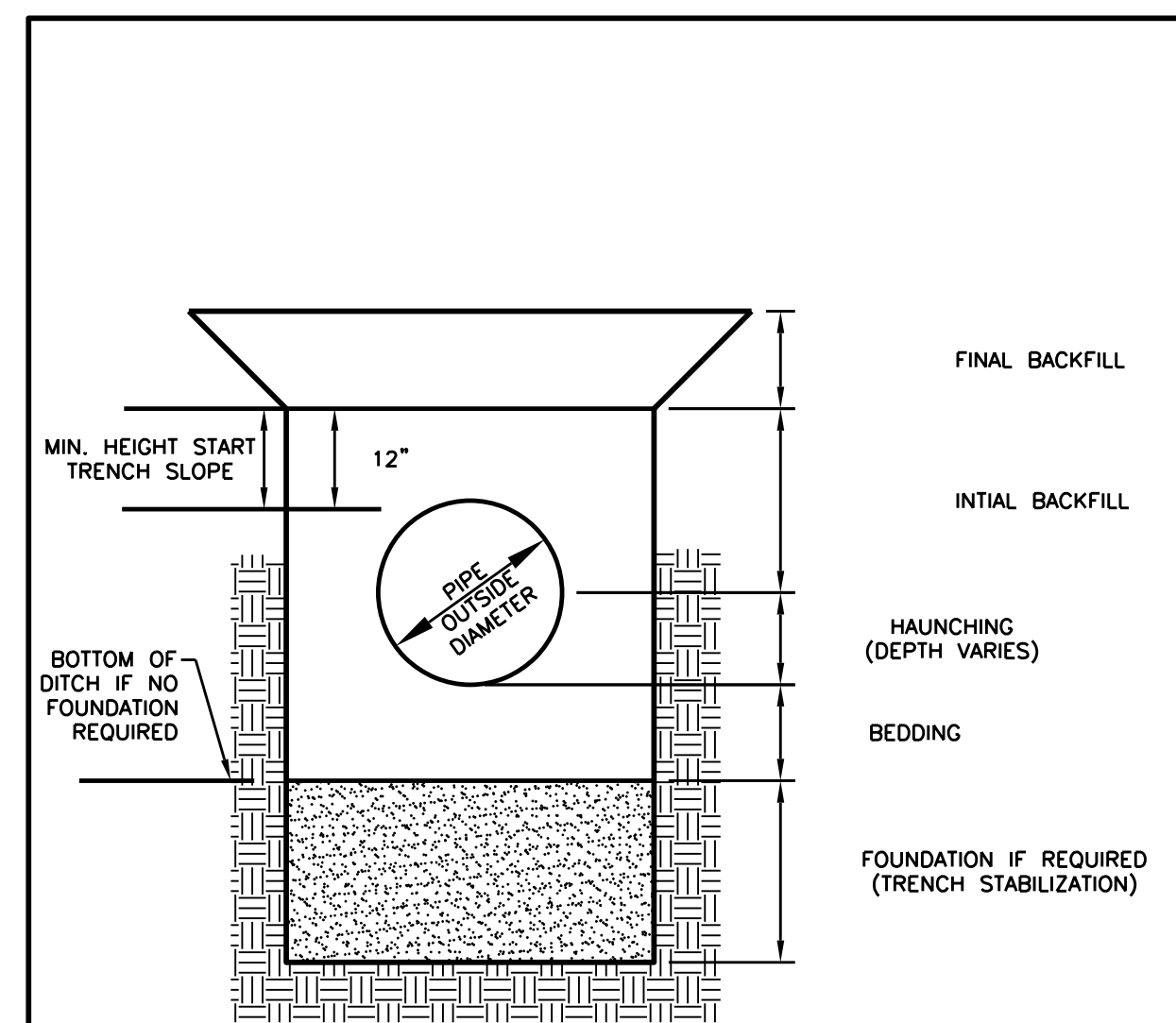


NOTES:
 1. PRIMER SHALL BE NO. 1-B ORANGE PRIMER AND CONFORM TO GEORGIA D.O.T. ARTICLE B 70.02. PRIMER SHALL BE APPLIED TO A MINIMUM THICKNESS OF 4 MILS.
 2. PAINT SHALL BE NO. 3-A GREEN, BRUSHING, ROLLER AIRLESS TYPE AND CONFORM TO GEORGIA D.O.T. ARTICLE 870.02. PAINT SHALL BE APPLIED TO A MINIMUM THICKNESS OF 10 MILS.
 3. TWO BOTTOM ASSEMBLIES USED TOGETHER MAY BE REQUIRED IN SOME INSTALLATIONS.
 4. PROVIDE TWO SUPPORTS PER JOINT, TWO FEET FROM JOINT.
 5. STEEL SHALL BE A-36.
 6. WELDING BE E-70xx.

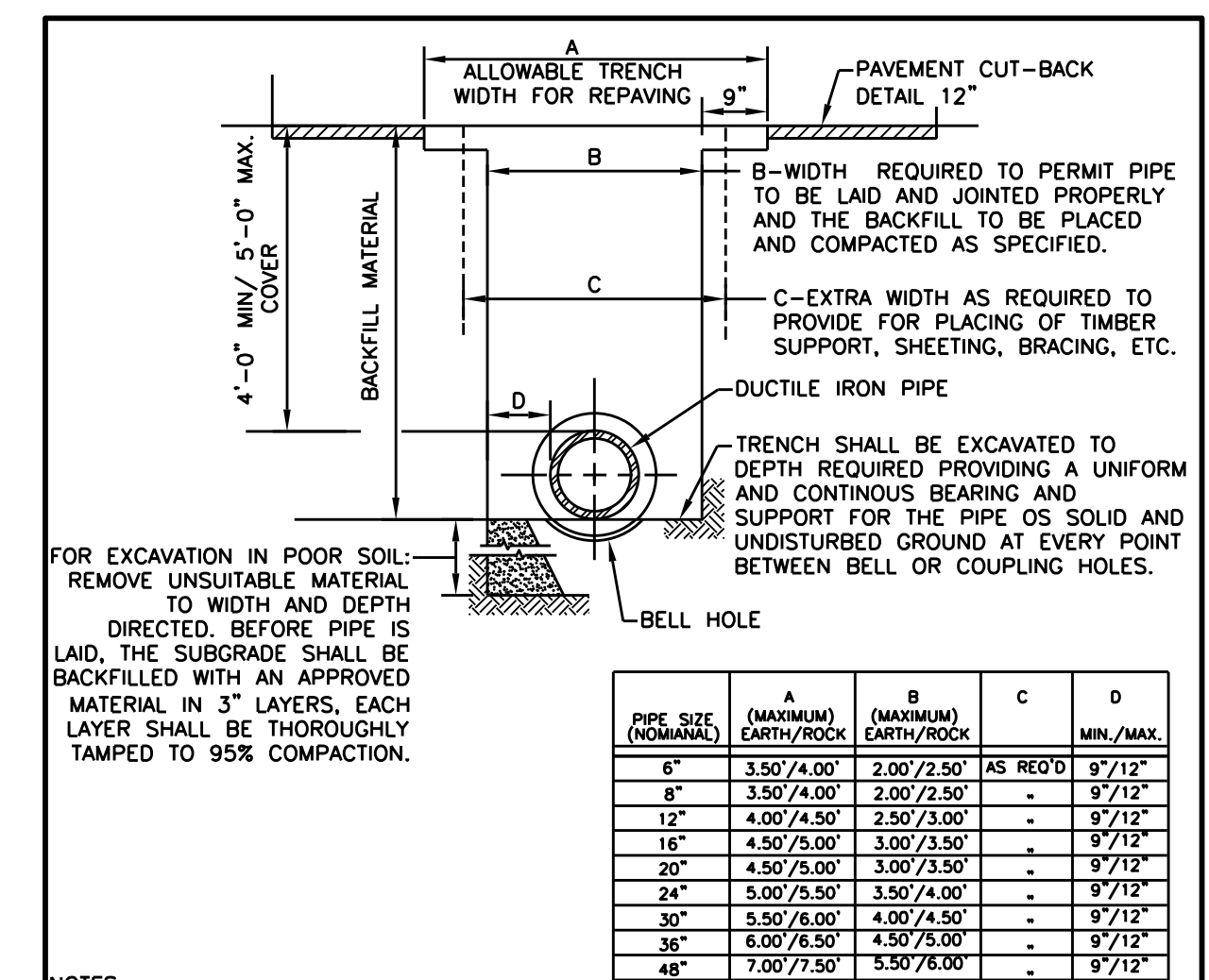
TYPICAL DUCTILE IRON PIPE HANGER SPACING



CONCRETE ENCASEMENT N.T.S.

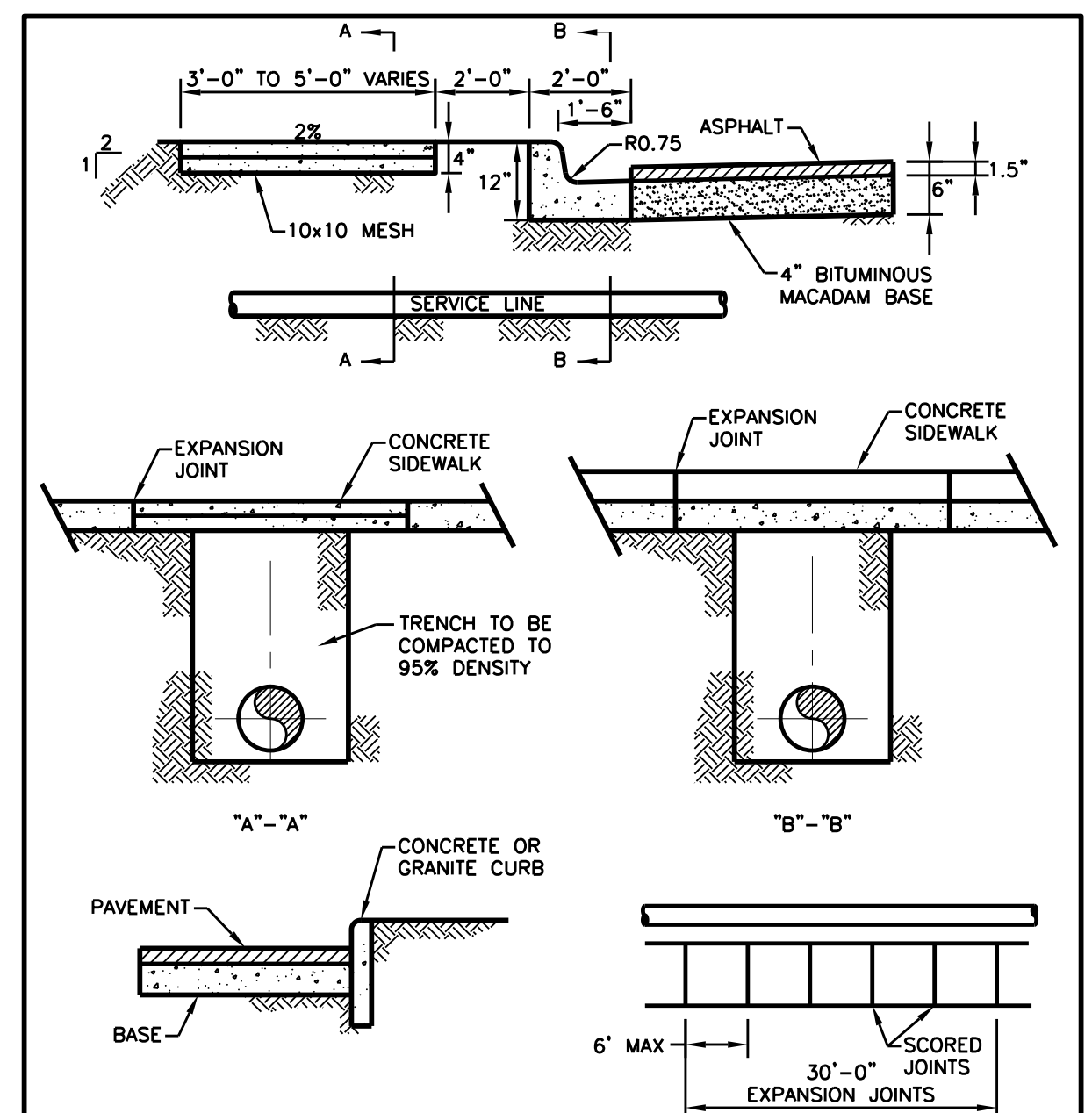


STANDARD DETAILS
 TRENCH TERMINOLOGY
 REV. DATE: OCT. 2011
 ORIG. DATE: OCT. 2004
 SCALE: N.T.S.
 DETAIL NO. WR-G_TRO03



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. PUDDLING 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.

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



NOTE:
 1. DETAILS ARE TYPICAL.
 2. REPLACE SIDEWALKS, CURB AND GUTTER AND CURBING TO MATCH EXISTING MATERIALS AS DIRECTED.

STANDARD DETAILS
 SIDEWALK, CURB AND GUTTER REPAIRS
 REV. DATE: OCT. 2011
 ORIG. DATE: NOV. 2004
 SCALE: N.T.S.
 DETAIL NO. WR-G_PV004

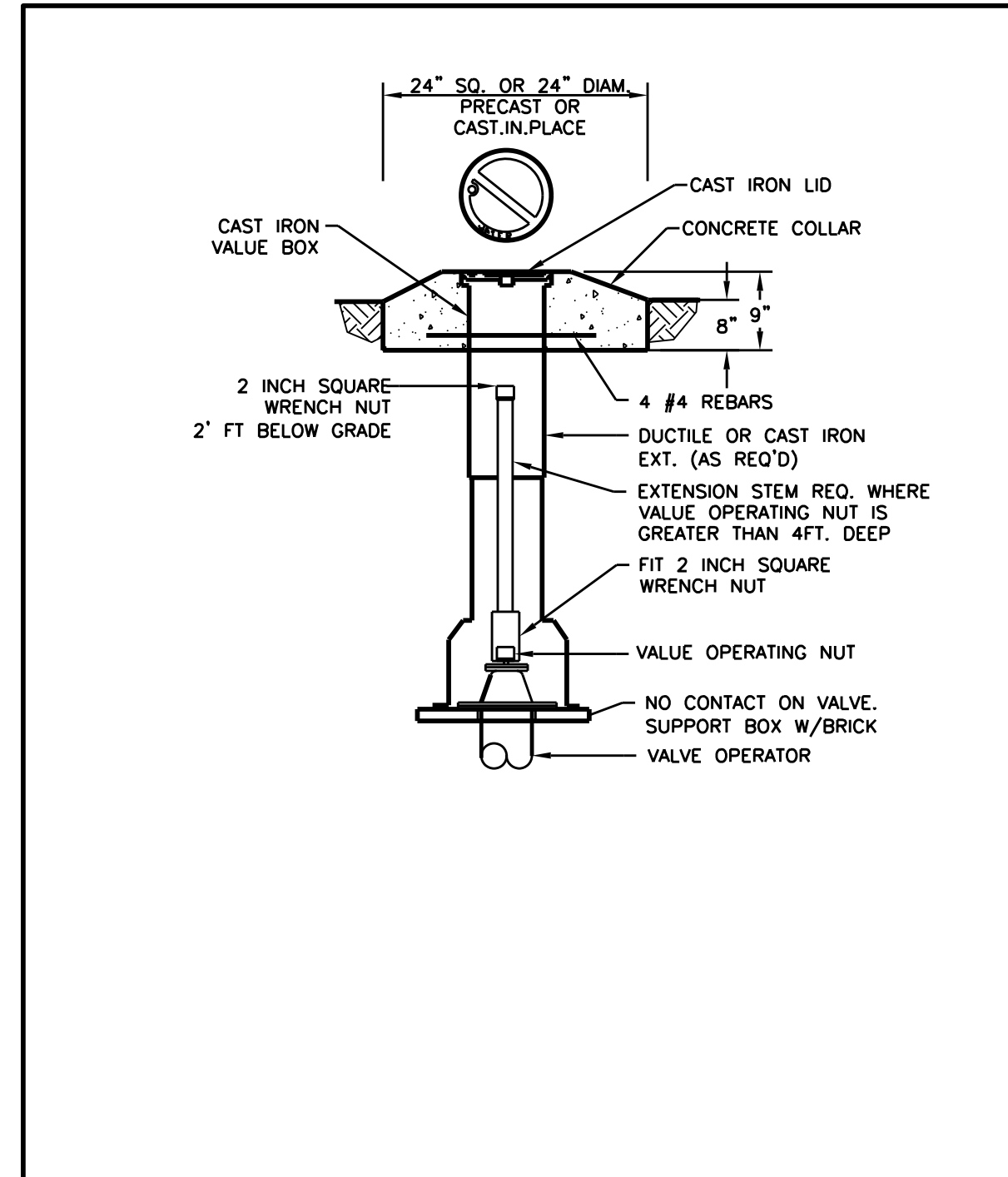
CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT	STANDARD DETAILS CONCRETE ENCASEMENT	DATE: FEB 2011 SCALE: N.T.S. DETAIL NO. G-4
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Know what's below.
 Call before you dig.

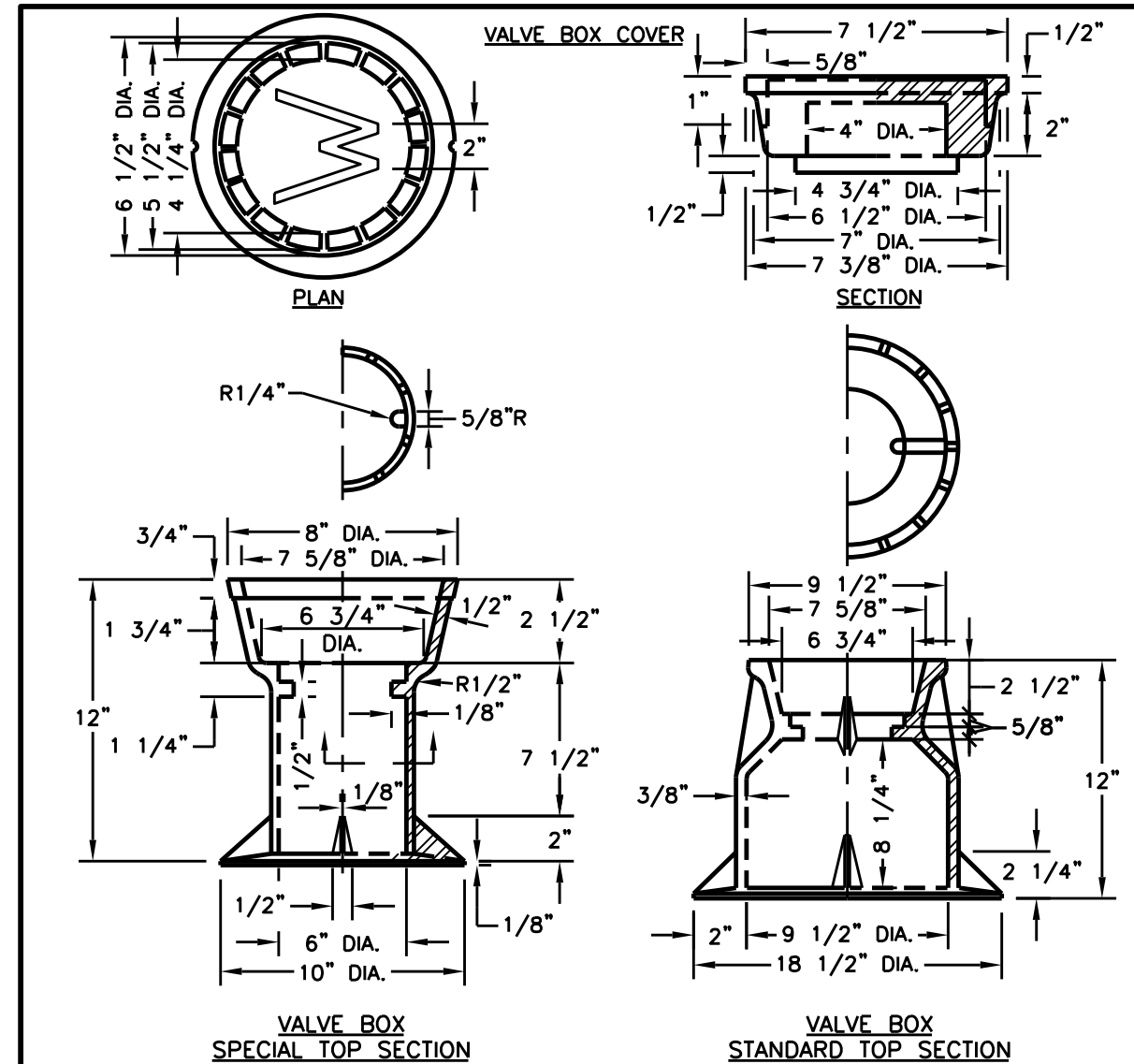
REVISION DATES		CONSTRUCTION DETAILS PONCE DE LEON AVENUE COMPLETE STREET UTILITY RELOCATION PLANS	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	44-0013	
CORRECTED:	DATE:		
VERIFIED:	DATE:		





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

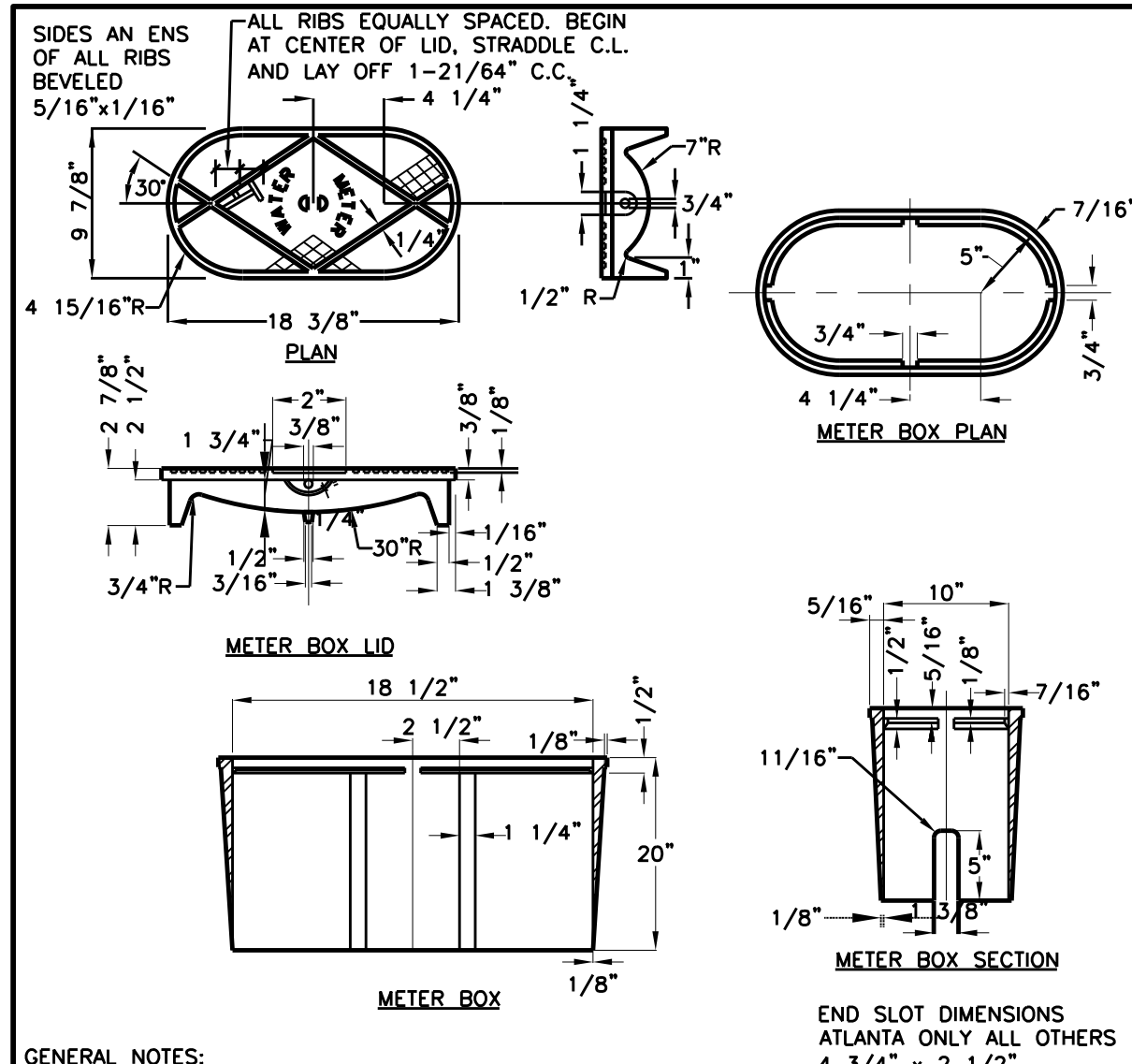
City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: NOV. 2004 SCALE: N.T.S.
	TYPICAL UNDERGROUND VALVE BOX	DETAIL NO. WR-G_VB001



NOTES:
1. UNLESS NOTED OTHERWISE, CAST IRON SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A48 LATEST REVISION FOR CLASS 20 GREY IRON CASTINGS.
2. CASTING SHALL BE TRUE AND FREE OF HOLES. THEY SHALL BE CLEANED ACCORDING TO GOOD FOUNDRY PRACTICE, CHIPPED AND GROUND AS NEEDED TO REMOVE FINS AND ROUGH PLACES.
3. FINISHED CASTING SHALL BE COATED INSIDE AND OUTSIDE WITH COAL TAR PITCH VARNISH AS INDICATED IN A.W.W.A. SPECIFICATIONS C110 LATEST REVISION. COATING MAY BE APPLIED COLD AND SHALL THOROUGHLY COVER ALL METAL SURFACES. FINISHED COATING SHALL BE SMOOTH, GLOSSY, NOT BRITTLE WHEN COLD, NOT STICKY WHEN EXPOSED TO THE SUN, AND SHALL ADHERE TO THE METAL AT ALL TEMPERATURES.
4. WHEN COATING IS COMPLETE, LID SHALL FIT SNUGLY WITHOUT ROCKING.

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

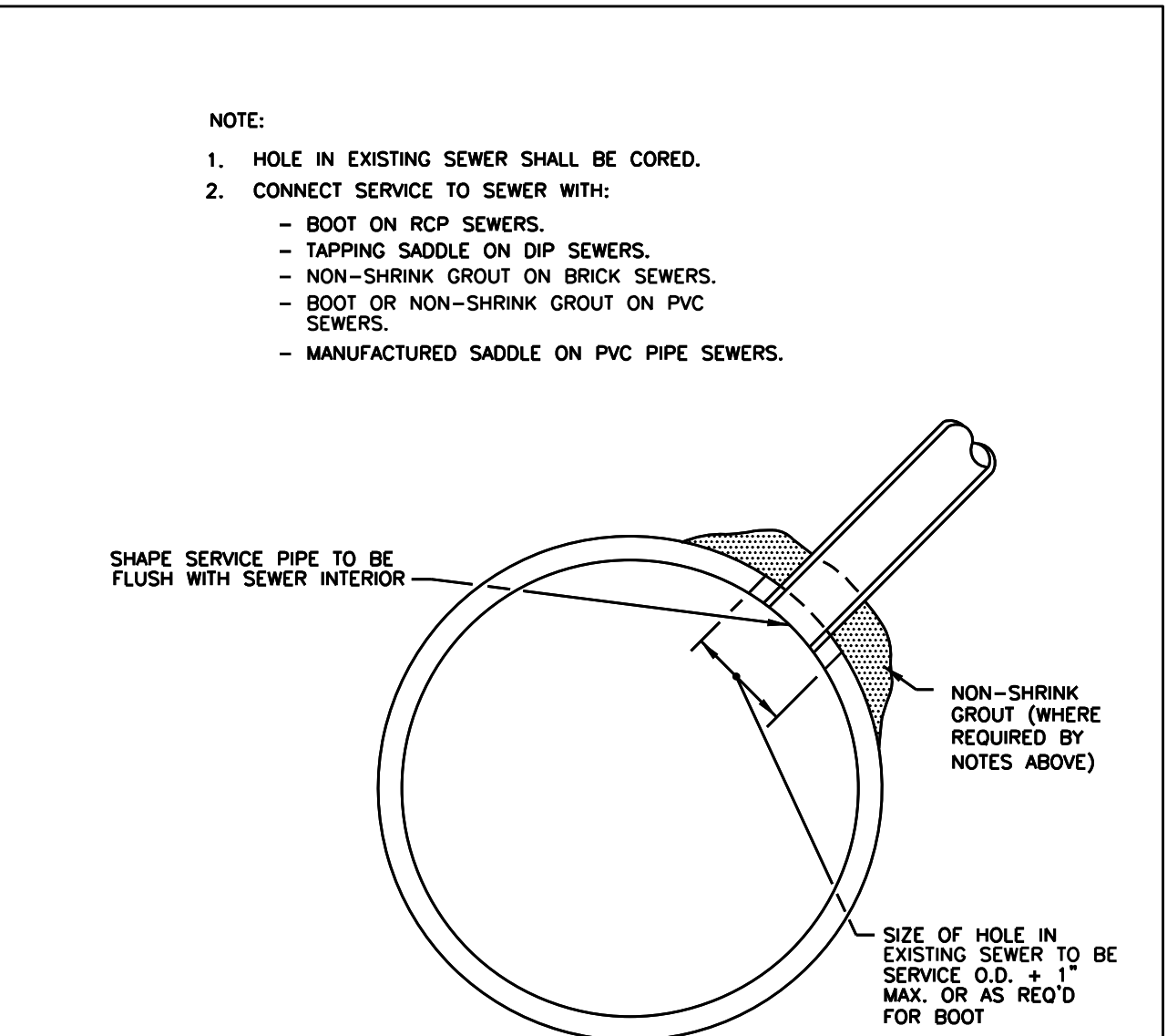
City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: OCT. 2004 SCALE: N.T.S.
	TYPICAL 4"-12" VALVE BOX ASSEMBLIES	DETAIL NO. WR-G_VB002



GENERAL NOTES:
1. UNLESS NOTED OTHERWISE, CAST IRON SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A48 LATEST REVISION FOR CLASS 20 GREY IRON CASTINGS.
2. CASTINGS SHALL BE TRUE AND FREE OF HOLES. THEY SHALL BE CLEANED ACCORDING TO GOOD FOUNDRY PRACTICE, CHIPPED AND GROUND AS NEEDED TO REMOVE FINS AND ROUGH PLACES.
3. FINISHED CASTINGS SHALL BE COATED INSIDE AND OUTSIDE WITH COAL TAR PITCH VARNISH AS INDICATED IN A.W.W.A. SPECIFICATIONS C110, LATEST REVISION. COATING MAY BE APPLIED COLD AND SHALL BE SMOOTH, GLOSSY, NOT BRITTLE WHEN COLD, NOT STICKY WHEN EXPOSED TO THE SUN, AND SHALL ADHERE TO THE METAL AT ALL TEMPERATURES.
4. WHEN COATING IS COMPLETE, LID SHALL FIT SNUGLY WITHOUT ROCKING.

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

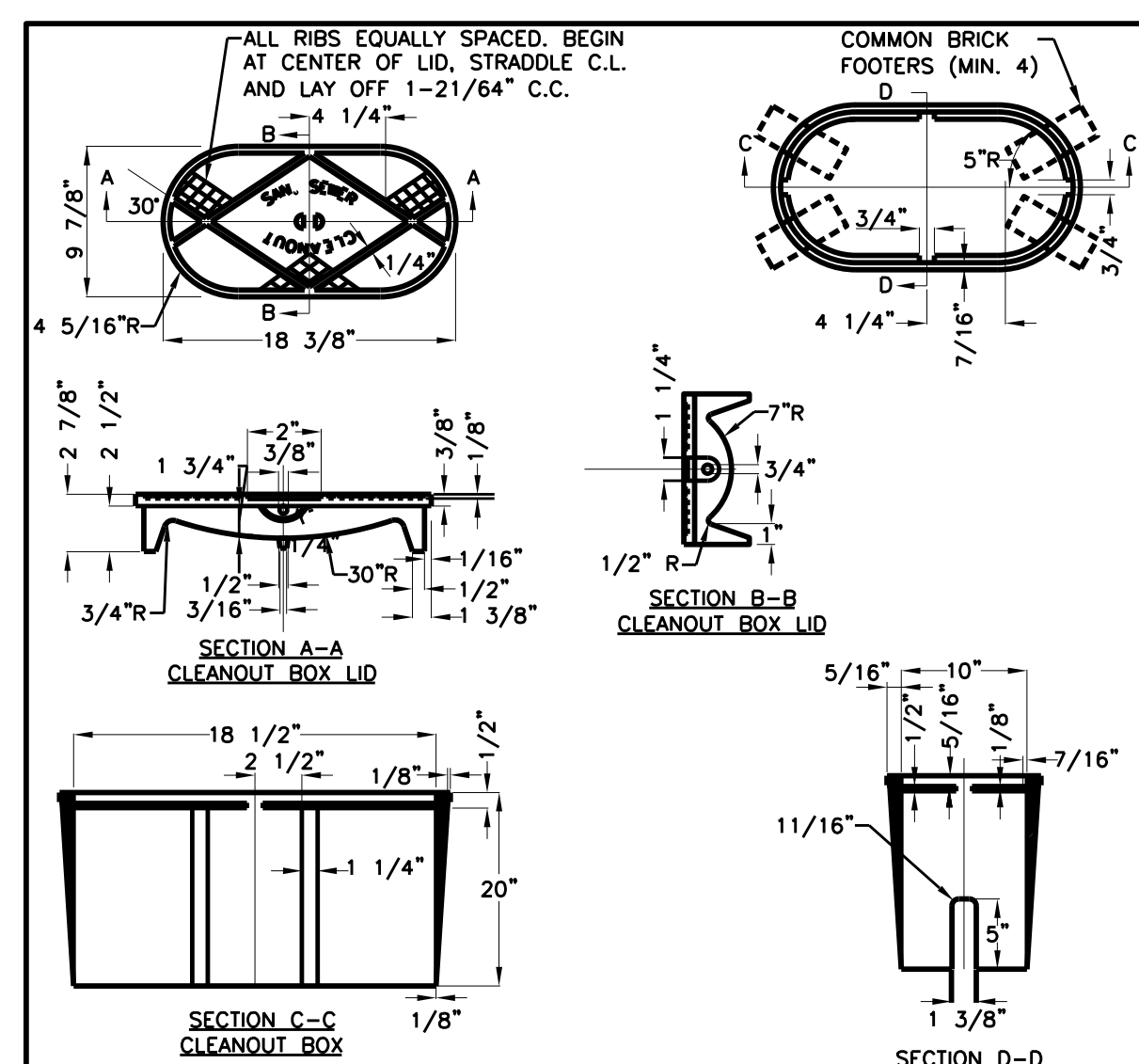
City of Atlanta Department of Public Works	STANDARD DETAILS	DATE: OCT. 2011 ORIG. DATE: OCT. 2004 SCALE: N.T.S.
	TYPICAL METER BOX ASSEMBLY	DETAIL NO. WR-G_ME001



NOTE:
1. HOLE IN EXISTING SEWER SHALL BE CORED.
2. CONNECT SERVICE TO SEWER WITH:
- BOOT ON RCP SEWERS.
- TAPPING SADDLE ON DIP SEWERS.
- NON-SHRINK GROUT ON BRICK SEWERS.
- BOOT OR NON-SHRINK GROUT ON PVC SEWERS.
- MANUFACTURED SADDLE ON PVC PIPE SEWERS.

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

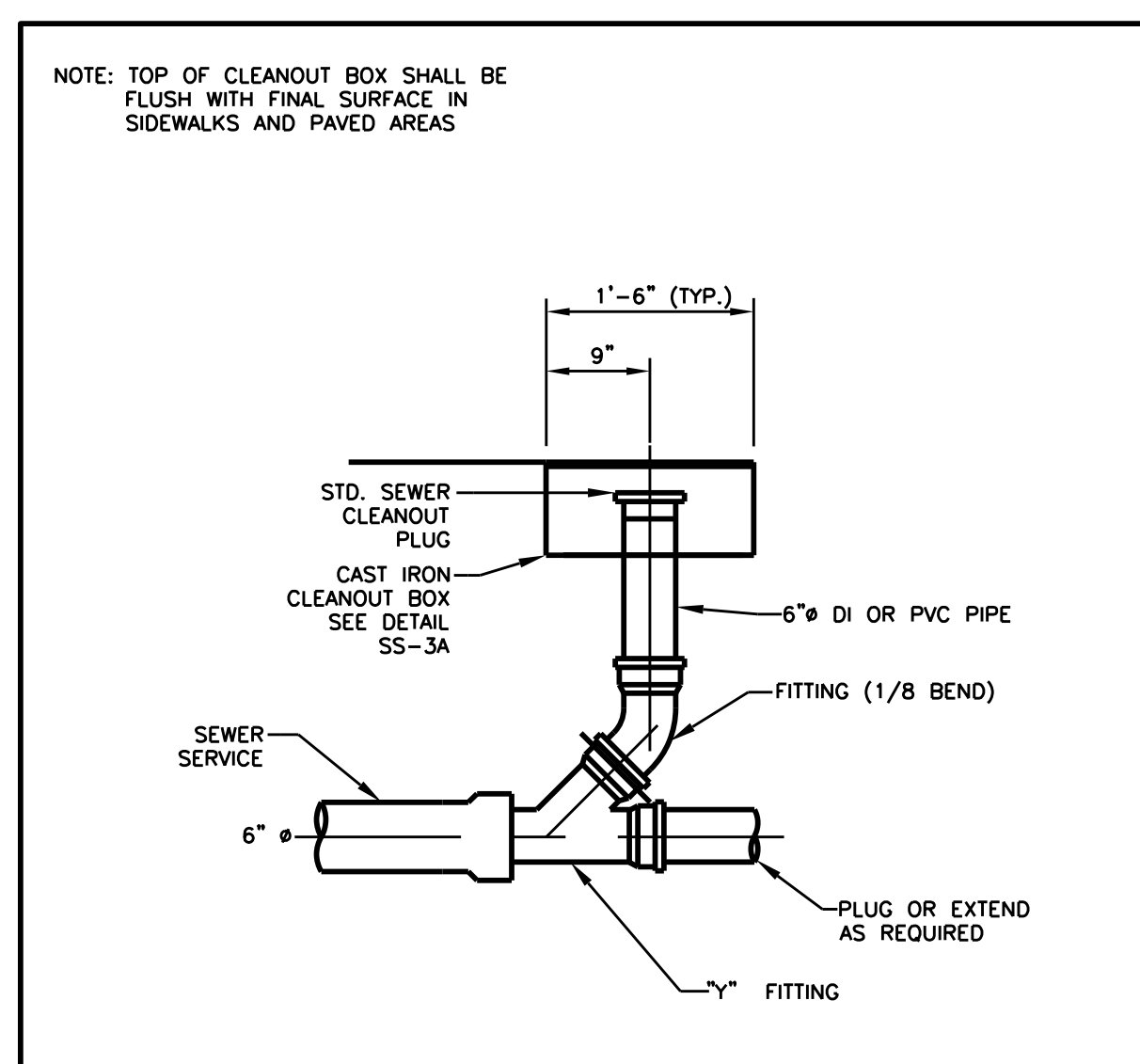
City of Atlanta DEPARTMENT OF WATER/SEWER MANAGEMENT	STANDARD DETAILS	DATE: FEB 2011 SCALE: N.T.S.
	LATERAL/TRUNK SERVICE CONNECTION	DETAIL NO. SS-2



GENERAL NOTES:
1. UNLESS NOTED OTHERWISE, CAST IRON SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A48 LATEST REVISION FOR CLASS 20 GREY IRON CASTINGS.
2. CASTINGS SHALL BE TRUE AND FREE OF HOLES. THEY SHALL BE CLEANED ACCORDING TO GOOD FOUNDRY PRACTICE, CHIPPED AND GROUND AS NEEDED TO REMOVE FINS AND ROUGH PLACES.
3. FINISHED CASTINGS SHALL BE COATED INSIDE AND OUTSIDE WITH COAL TAR PITCH VARNISH AS INDICATED IN A.W.W.A. SPECIFICATIONS C110, LATEST REVISION. COATING MAY BE APPLIED COLD AND SHALL BE SMOOTH, GLOSSY, NOT BRITTLE WHEN COLD, NOT STICKY WHEN EXPOSED TO THE SUN, AND SHALL ADHERE TO THE METAL AT ALL TEMPERATURES.
4. WHEN COATING IS COMPLETE, LID SHALL FIT SNUGLY WITHOUT ROCKING.

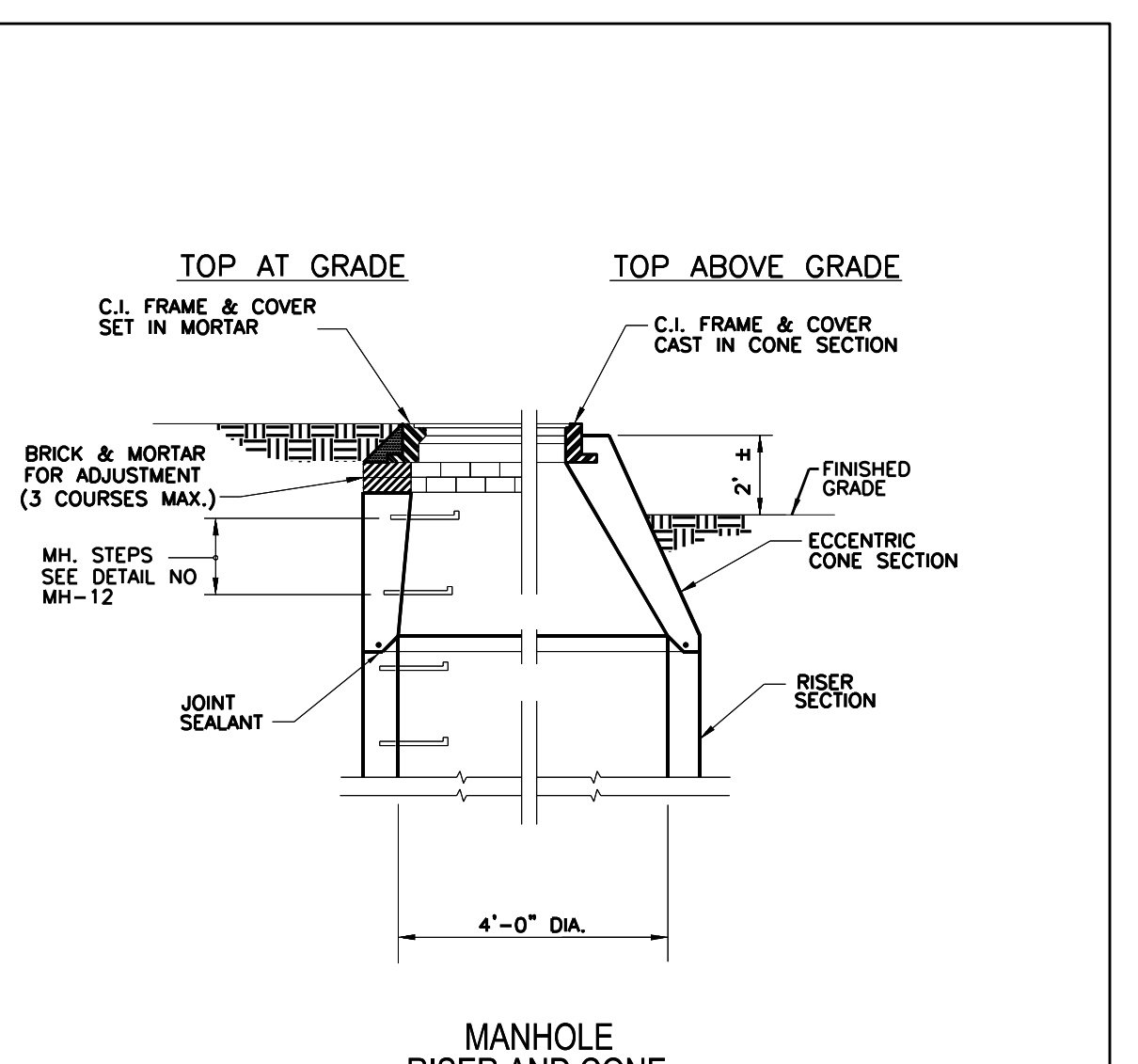
THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: NOV. 2004 SCALE: N.T.S.
	SANITARY CLEANOUT BOX	DETAIL NO. SS-G_SC003



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: NOV. 2004 SCALE: N.T.S.
	SERVICE CONNECTION CLEANOUT	DETAIL NO. SS-G_SC004



STANDARD DETAILS
MANHOLE RISER AND CONE

City of Atlanta DEPARTMENT OF WATER/SEWER MANAGEMENT	STANDARD DETAILS	DATE: FEB 2011 SCALE: N.T.S.
	MANHOLE RISER AND CONE	DETAIL NO. MH-2



REVISION DATES		CONSTRUCTION DETAILS	
		1-75; SR 42 SPUR; SR 54; CS 3279 AT 12 LOCATIONS IN FULTON COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	44-0014	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

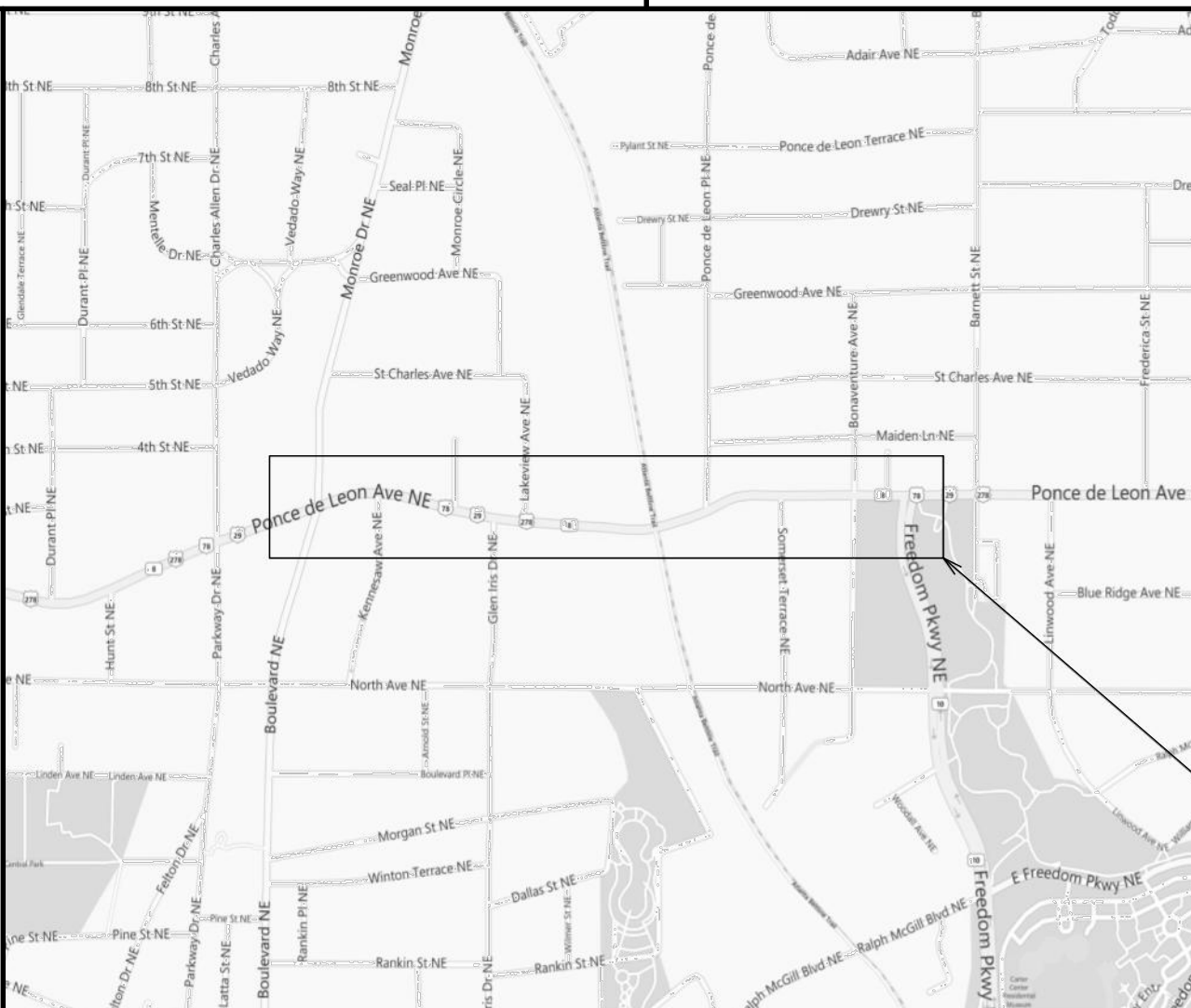
ATLANTA BELTLINE, INC.

EROSION AND SEDIMENT CONTROL PLANS

PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

FEDERAL AID PROJECT PRELIMINARY PLANS

- THE DESIGN PROFESSIONAL WHO PREPARED THE ES/PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING NECESSARY PERMITS.
- AMENDMENTS/REVISIONS TO THE PLANS, WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE ENGINEER.
- MAINTENANCE STATEMENT - "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE." CHANGES SHALL BE VERIFIED AND APPROVED BY ENGINEER PRIOR TO IMPLEMENTATION. PRACTICES WILL BE CHECKED DAILY.
- 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.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.



VICINITY MAP

DESIGN DATA:
 TRAFFIC A.D.T.: 36,100 (2015)
 TRAFFIC A.D.T.: 46,700 (2035)
 TRAFFIC D.H.V.: N/A
 DIRECTIONAL DIST.: N/A
 % TRUCKS: N/A
 24 HR. TRUCKS %: N/A
 SPEED DESIGN: 35 MPH

LOCATION & DESIGN APPROVAL DATE: TRAFFIC A.D.T.: 36,100 (2019)
 TRAFFIC A.D.T.: 46,700 (2039)

FUNCTIONAL CLASS:
 URBAN PRINCIPAL ARTERIAL

THIS PROJECT IS
 100% IN CONG. DIST. NO. 5

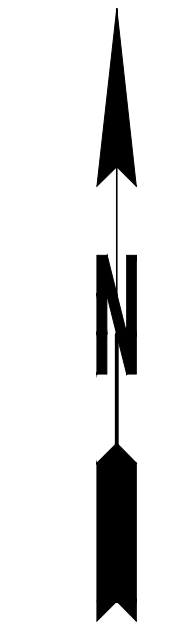
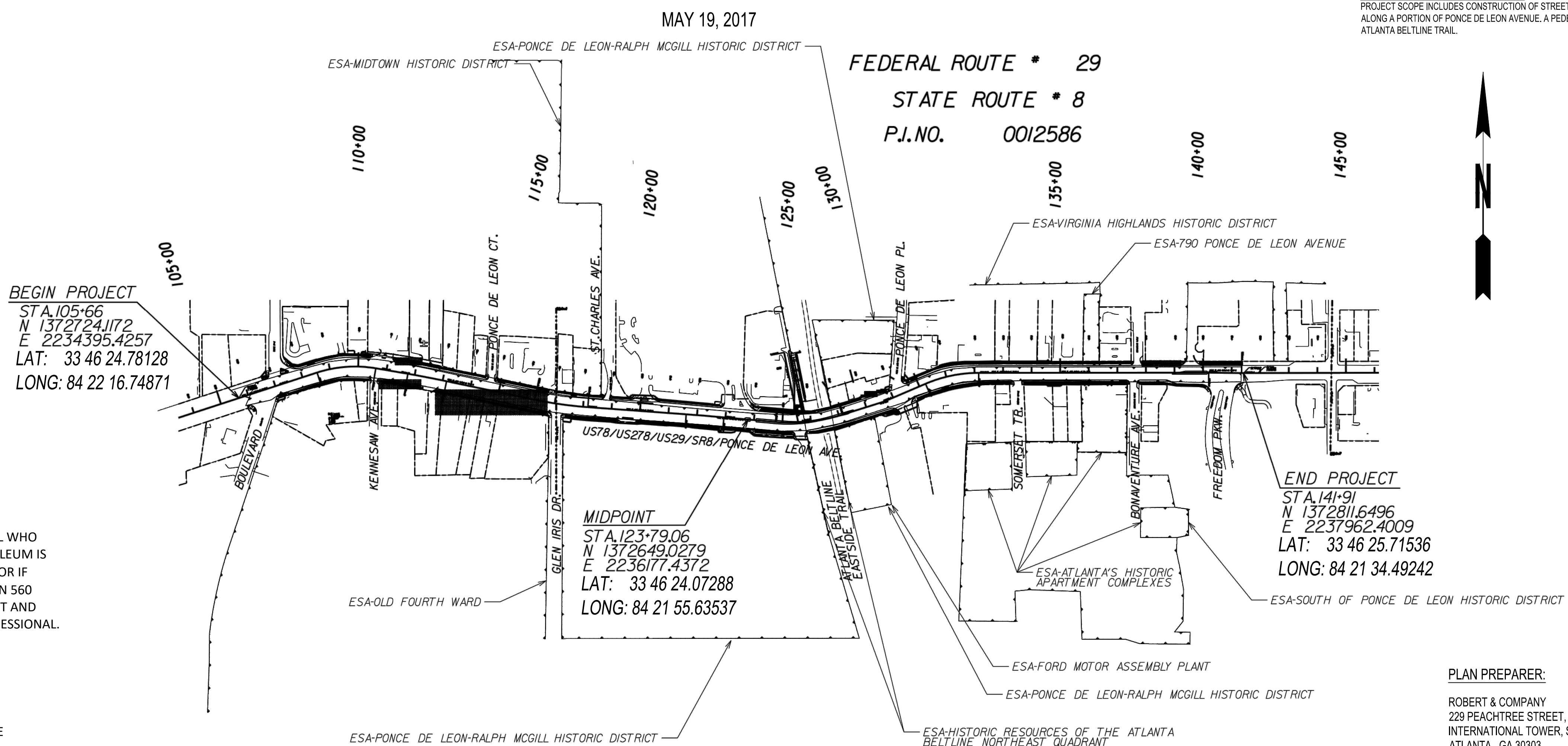
PROJECT DESIGNATION:
 EXEMPT

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.

LENGTH OF PROJECT	MILES
NET LENGTH OF ROADWAY	0.687
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.687
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.687

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANYONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 560 GALLONS. THE CONTRACTOR WILL NEED A SPILL CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

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.

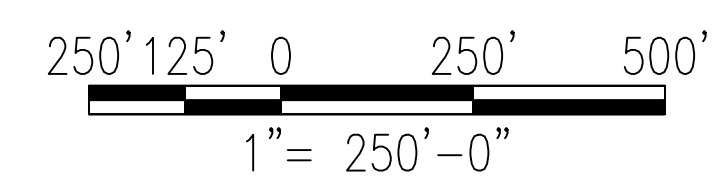


PLAN PREPARER: ROBERT & COMPANY 229 PEACHTREE STREET, NE INTERNATIONAL TOWER, SUITE 2000 ATLANTA, GA 30303 BRIAN KLUTTZ, PE EROSION AND SEDIMENT CONTROL CERT. # 6924 PHONE: (404) 577-4000	OWNER / 24 HR. CONTACT: ATLANTA BELTLINE, INC. 100 PEACHTREE STREET, NW. SUITE 2300 ATLANTA, GA 30303 PHONE: (404) 477-3003
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Robert and Company
 Engineers, Architects, Planners
 229 Peachtree Street, N.E. International Tower
 Suite 2000, Atlanta, Georgia 30303-1629
 404 577-4000 FAX: 404 577-7119
 www.robertandcompany.com

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

Level II Certification #6924



REVISION DATES

ATLANTA BELTLINE

OFFICE:

EROSION CONTROL COVER SHEET

PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No.
50-001

ESPCP GENERAL NOTES

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.

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

PLAN 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 of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMP's may be added per Special Provision 161—Control of Soil Erosion and Sedimentation.

TEMPORARY MULCHING

EPD General Permit GAR 100002 states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation as soon as practicable with a suitable material listed in Standard Specification (or Special Provision) Sections 163, 700, or 711. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching 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.

SEQUENCE OF MAJOR ACTIVITIES

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

The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

CLEARING PHASE

1. ACQUISITION OF NOTICE OF INTENT IS RESPONSIBILITY OF OWNER AND CONTRACTOR. CONSTRUCTION WORK SHALL BEGIN FOURTEEN (14) DAYS AFTER NOI SUBMITTAL. NO WORK ONSITE SHALL BEGIN PRIOR TO THIS TIME.
2. PRE-CONSTRUCTION MEETING TO BE HELD ONSITE PRIOR TO COMMENCEMENT OF ACTIVITIES. CONTRACTOR TO SCHEDULE AND CONTACT ALL ATTENDEES TO INCLUDE, BUT NOT LIMITED TO, ENGINEER, AGENCY REPRESENTATIVES, OWNER, AND SUB-CONTRACTORS.
3. CONSTRUCTION ENTRANCE/EXIT TO BE CONSTRUCTED ONSITE.
4. SILT FENCE TO BE ERRECTED ONSITE. THIS IS THE FIRST EROSION CONTROL MEASURE TO TAKE PLACE ONSITE AND CONTRACTOR MAY ONLY DISTURB THAT AREA NECESSARY TO ERRECT FENCE.
5. CONTRACTOR SHALL INSTALL INLET PROTECTION ON EXISTING STORM DRAIN INLETS AS SHOWN.
6. WITHIN SEVEN DAYS AFTER INSTALLATION OF EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT ENGINEER, WHO MAINTAINS A GASWCC LEVEL II CERTIFICATION. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONTACT THE ENGINEER FOR CHANGES TO THE PLANS.
7. CONTRACTOR TO BEGIN CLEARING AND GRUBBING.
8. MULCH AND SEED DISTURBED AND DENUDED AREAS.

GRADING PHASE

1. CONTRACTOR TO BEGIN FINE GRADING ON SITE.
2. CONTRACTOR TO MODIFY EXISTING STORM DRAIN CONVEYANCE SYSTEM.
3. MULCH AND SEED DISTURBED AND DENUDED AREAS.

FINAL PHASE

1. FINAL GRADING TO BE PERFORMED BY CONTRACTOR.
2. CONTRACTOR TO PAVE TAXILANE AND APRONS.
3. CONTRACTOR TO MARK AND STRIPE TAXILANE CENTERLINE.
4. FINAL SEEDING TO BE PERFORMED ONSITE.
5. ENGINEER AND/OR OWNER TO INSPECT SITE FOR CONSTRUCTION COMPLIANCE. CONTRACTOR TO REPAIR ITEMS DETERMINED UNSUITABLE.
6. TEMPORARY SEDIMENT CONTROL MEASURES TO BE REMOVED ONCE SITE IS STABILIZED AND ALL SEDIMENT THAT HAS ACCUMULATED IN STORM DRAIN CONVEYANCE SYSTEMS AND IN ANY OTHER PERTINENT AREA HAS BEEN REMOVED.
7. CONTRACTOR TO FILE FOR NOTICE OF TERMINATION. COPY TO BE PROVIDED TO ENGINEER AND OWNER.

PETROLEUM STORAGE, SPILLS AND LEAKS

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

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

SOIL SERIES INFORMATION

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

Erosion Hazard (Off-Road, Off-Trail)— Summary by Map Unit — Fulton County, Georgia (GA121)						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
Ub	Urban land	Not rated	Urban land (100%)		23.2	100.0%
Totals for Area of Interest					23.2	100.0%

Erosion Hazard (Off-Road, Off-Trail)— Summary by Rating Value		
Rating	Acres in AOI	Percent of AOI
Null or Not Rated		23.2
Totals for Area of Interest		23.2

SOILS INFORMATION: FULTON COUNTY, GEORGIA / Ub — URBAN LAND / MAP UNIT COMPOSITION / URBAN LAND: 100 PERCENT / DATA SOURCE INFORMATION / SOIL SURVEY AREA: FULTON COUNTY, GEORGIA / SURVEY AREA DATA: VERSION 11, SEP 13, 2016

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>.

POSTCONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT

All permanent postconstruction BMP's are shown in the construction plans and in the ESPCP plan. The postconstruction BMP's for this project consist of vegetation, permanent slope drains and/or flumes, riprap at pipe outlets for velocity dissipation and outlet stabilization, stabilization with turf reinforcing mats, riprap and concrete ditch lining where necessary. The postconstruction BMP's will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.)

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.

SITE STABILIZATION AND BMP MAINTENANCE MEASURES

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

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.

NONSTORMWATER DISCHARGES

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

INSPECTIONS

The primary permittee (GDOT) 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 seven (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 seven (7) days of installation and all sediment basins within the entire linear infrastructure project within seven (7) days of installation. The inspecting design professional shall report the results to the primary permittee within seven (7) days, and the permittee must correct all deficiencies within two (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 seven-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 requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

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.

DEWATERING AND PUMPING ACTIVITIES

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

OTHER CONTROLS

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.

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.

SEDIMENT STORAGE

The site has a total disturbed area of 8.00 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.


Location	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd ³)	Total Storage Volume Provided (yd ³)	Sediment Basins		Check Dam (# yd ³ /each)		Inlet Sediment Traps (# yd ³ /each)		Silt Gates (# yd ³ /each)		Silt Fence (0.3 yd ³ /ft)	
					Basin #	Total Volume (yd ³)	# of Devices	Total Volume (yd ³)	# of Devices	Total Volume (yd ³)	# of Devices	Total Volume (yd ³)	Length of Fence (ft)	Total Volume (yd ³)
Outfall 1	282	8	536	2250									7500	2250
Outfall 2														
Outfall 3														
Total Sheet Flow														

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.

EROSION AND SEDIMENTATION CONTROL 12 MONTH SCHEDULE																
TASK	MO. 1-2		MO. 3-4		MO. 5-6		MO. 7-8		MO. 9-10		MO. 11-12					
NUMBER OF WEEKS	2	4	6	8	2	4	6	8	2	4	6	8	2	4	6	8
EROSION AND SEDIMENTATION CONTROL MEASURES																
CLEARING AND GRUBBING OPERATIONS																
EARTHWORK AND GRADING																
UTILITIES																
GRASSING																
PAVING																
FINAL STABILIZATION																
MAINTENANCE OF EROSION CONTROL MEASURES																



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Level II Certification #6924

REVISION DATES		

ATLANTA BELTLINE

OFFICE:
EROSION, SEDIMENTATION, & POLLUTION CONTROL GENERAL NOTES
PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No.
51-001

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

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an 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).

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 overflowing. 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".

SAMPLING 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 8.01 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 (mi ²)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall Sampling only)	Allowable NTU Increase (Receiving water sampling only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins
1 Up	105+00, 3,650' LT	Piedmont Lake	All	Receiving Water	0.4	2	Warm	N/A	25	Upstream	Streetscape	8	0.005	N/A	N/A
1 Dn	105+50, 3,650' LT	Piedmont Lake	All	Receiving Water	0.4	0	Warm	N/A	25	Downstream	Streetscape	N/A	N/A	N/A	N/A

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

RIPRAP OUTLET PROTECTION

Structure #, Outfall ID#, or Station and Offset	Channel Width W (ft)	Q ₂₅ (ft ³ /s)	V ₂₅ (ft/s)	Tailwater Condition (TW<0.5 Do TW>0.5 Do)	Width at Drainage Structure W1=W2 (ft)	Apron Length La (ft)	Downstream Width W2=Do+La (ft)	Average Stone Diameter d ₅₀ (ft)	Apron Thickness D (ft)	Riprap Type (Type 3 or Type 1)	Quantity (yd ³)
#1	3.0	0.3	0.00068	TW<0.5 Do	3.00	6	3.00	0.50	0.75	Type 1	2
#2	2.0	1.5	0.00500	TW<0.5 Do	2.00	6	2.00	0.50	0.75	Type 1	1.5

EROSION CONTROL CERTIFICATION

1. 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 LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.

2. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

DESIGN PROFESSIONAL

3. "I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

SOIL CLEANUP AND CONTROL PRATICES

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1 800 426 2675.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NRC WILL BE CONTACTED WITHIN 24 HOURS AT 1 800 426 2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

SAMPLING FREQUENCY

- THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:
 - THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR
 - THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.
- HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:
 - FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
 - IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
 - AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED; AND STATE OF GEORGIA PAGE 25 OF 33 DEPARTMENT OF NATURAL RESOURCES PERMIT NO. GAR100001 ENVIRONMENTAL PROTECTION DIVISION.
 - EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

REPORTING

- THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART I.I.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
- ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
- ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
 - THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
 - THE DATE(S) ANALYSES WERE PERFORMED;
 - THE TIME(S) ANALYSES WERE INITIATED;
 - THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
 - REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
 - THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
 - RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."

SITE EROSION CONTROL NOTES

NO STATE WATERS ARE LOCATED WITHIN 200' OF THE PROJECT SITE.

NO WETLANDS ARE LOCATED ON THIS SITE.



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REVISION DATES

ATLANTA BELTLINE

OFFICE:
EROSION, SEDIMENTATION, & POLLUTION
CONTROL GENERAL NOTES
PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

DRAWING No.
51-002



**Georgia Soil and Water Conservation Commission
EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS**

SWCD: FULTON COUNTY
 Project Name: once de Leon Ave Complete Str Retro Address: boulevard/Monroe Dr. & Ponce de Leon Ave
 City/County: City of Atlanta / Fulton County Date on Plans: _____

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-003	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. <i>(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)</i>
51-002	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. <i>(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)</i>
50-001	Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
50-001	Y	4 Provide the name, address and phone number of primary permittee.
51-001	Y	5 Note total and disturbed acreage of the project or phase under construction.
50-001	Y	6 Provide the GPS locations of the beginning and end of the infrastructure project. Give the Latitude and Longitude in decimal degrees.
50-001	Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
50-001	Y	8 Description of the nature of construction activity.
50-001	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
55-001	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
51-002	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
51-002	Y	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.*
51-002	Y	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 26 of permit as applicable.*
50-001	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with part N.A.5. within 7 days after installation."
50-001	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wooded vegetation or within 25-foot of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
N/A	N	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
50-001	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."
50-001	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."
50-001	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."
50-001	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 control or treat the sediment source."
50-001	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	N	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an 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."
N/A	N	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan."
51-002	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited."
51-002	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
51-002	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed."
51-002	Y	27 Description of the practices that will be used to reduce the pollutants in storm water discharges."
51-001	Y	28 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-001	Y	29 Provide complete requirements of inspections and record keeping by the primary permittee."
51-001	Y	30 Provide complete requirements of sampling frequency and reporting of sampling results."

51-001	Y	31 Provide complete details for retention of records as per Part IV.F. of the permit.*				
51-002	Y	32 Description of analytical methods to be used to collect and analyze the samples from each location.*				
53-001	Y	33 Appendix B rationale for NTU values at all outfall sampling points where applicable.*				
55-001	Y	34 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable.*				
52-001-007	Y	35 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.*				
54-001-021	Y	36 Graphic scale and North arrow.				
55-001	Y	37 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: <table border="1" style="margin-left: 20px;"> <tr> <td>Existing Contours</td> <td>USGS 1" = 2000' Topographical Sheets</td> </tr> <tr> <td>Proposed Contours</td> <td>1" = 400' Centerline Profile</td> </tr> </table>	Existing Contours	USGS 1" = 2000' Topographical Sheets	Proposed Contours	1" = 400' Centerline Profile
Existing Contours	USGS 1" = 2000' Topographical Sheets					
Proposed Contours	1" = 400' Centerline Profile					
51-001	Y	38 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gswcc.org.				
N/A	N	39 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.*				
N/A	N	40 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.				
N/A	Y	41 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.				
53-001-002	Y	42 Delineation and acreage of contributing drainage basins on the project site.				
55-001	Y	43 Delineate on-site drainage and off-site watersheds using USGS 1" = 2000' topographical sheets.				
53-002	Y	44 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.				
51-002	Y	45 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.				
51-001	Y	46 Soil series for the project site and their delineation.				
54-001-021	Y	47 The limits of disturbance for each phase of construction.				
51-003	Y	48 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.				
52-001-007	Y	49 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.				
56-001	Y	50 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.				
SPECS	Y	51 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.				

*Using this checklist for a project that is less than 1 acre and not part of a common development but within 200 feet of a perennial stream the * checklist items would be **Effective January 1, 2017**



May 18, 2017

Re: Ponce de Leon Streetscape Project, GA
File:

Justification of Alternative BMP (Silt Fence) for Sediment Storage Minimum Requirement.

This letter is intended to provide justifications/calculations for alternative erosion sediment control bmp for the above mentioned project.

The reason for the use of alternative control for this particular project is because the use of traditional sediment pond in a roadway environment could pose hazards to public safety. It is common practice in roadway engineering to minimize excavations in close proximity to the roadways.

Also, the scope of land disturbance on this project is minimal and limited to a linear area of roadway and better protected by Silt fence.

It is our professional opinion that through the use of Silt fence as an alternative erosion & sediment control, in addition to other bmps shown on the erosion and sediment control plans, Stormwater and sediment runoff generated from this project would be managed effectively.

The minimum required amount of sediment storage is: 67 cy per acre

For this project, the disturbed acreage is 8.0 acres, therefore 67 CY/Acre X 8.0 Acres = 536 CY

$0.3 \text{ CY/LF} = (536 \text{ CY}/1787 \text{ LF})$

The minimum required length of Type A or C silt fence is 1787 LF.

This project proposes approximately 7,500 LF of silt fence and far exceeds the minimum amount of sediment storage required for this project.

Please contact myself or Charles Adeogun, PE at our office with further questions or concerns.

Sincerely,

Brian Kluttz, PE

www.robertandcompany.com

Atlanta BeltLine, Inc.
100 PEACHTREE STREET NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

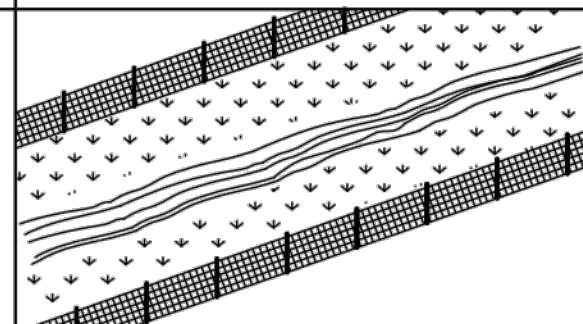

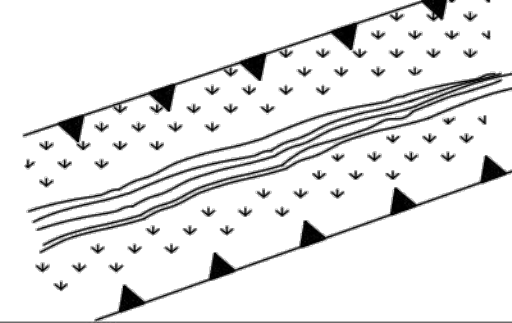

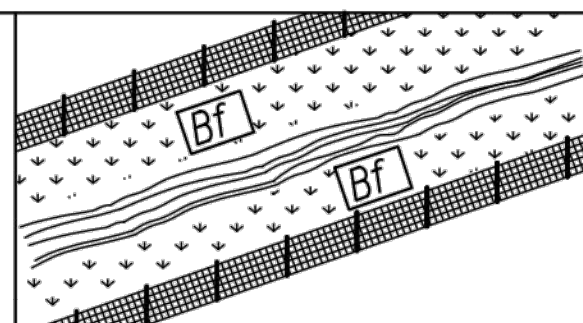
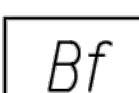
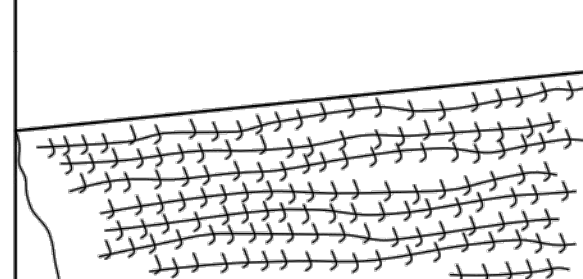
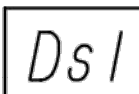
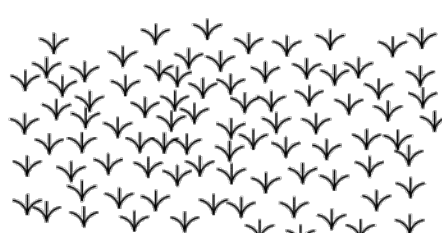
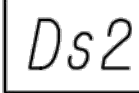


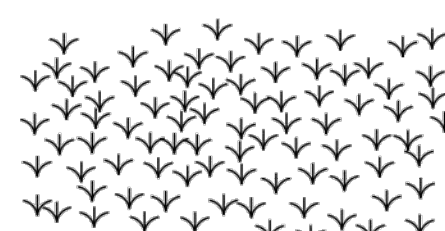
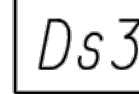
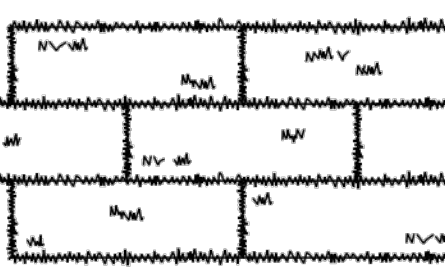

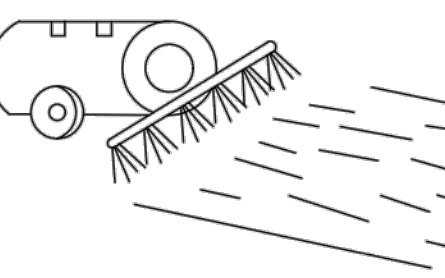
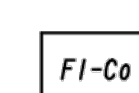
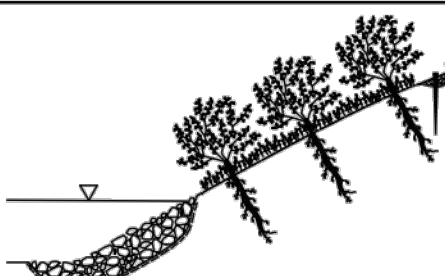
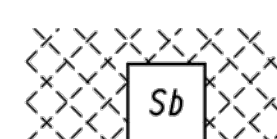
REVISION DATES	

ATLANTA BELTLINE

OFFICE:
EROSION, SEDIMENTATION, & POLLUTION CONTROL GENERAL NOTES
PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No.
51-003

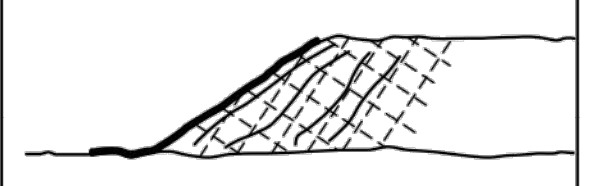
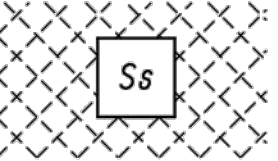
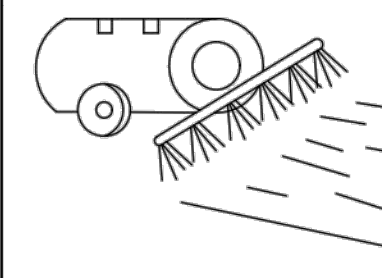
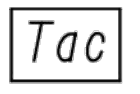
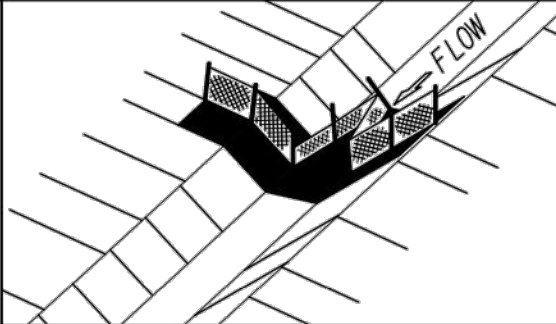
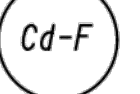
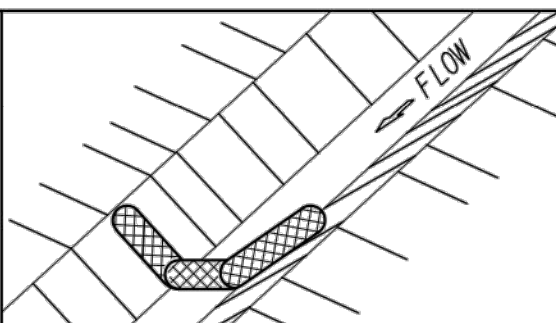
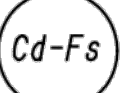
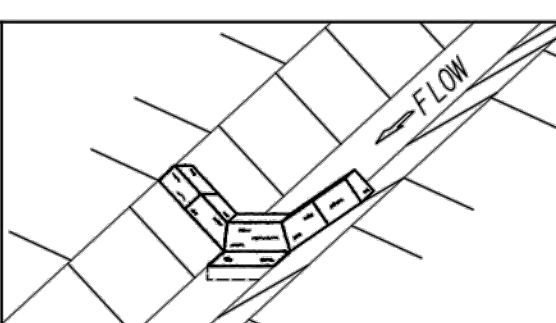
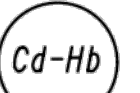
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE 	
ESA	ENVIRONMENTALLY SENSITIVE AREA		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 SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds2	TEMPORARY GRASSING SECTION 163, 700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	

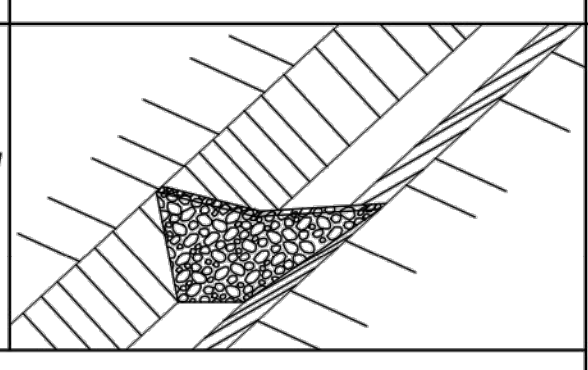

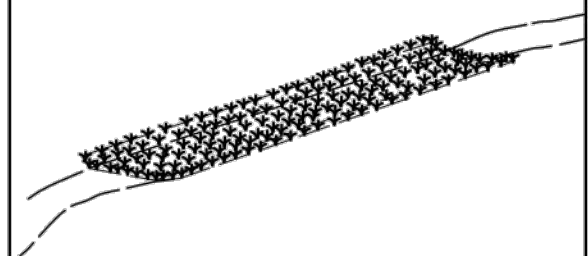

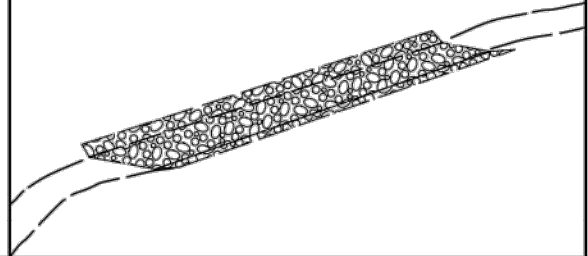

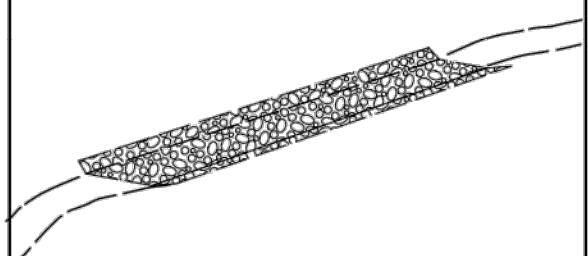

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE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

NOTE:

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

 ATLANTA BELTLINE, INC. 100 PEACHTREE STREET NW SUITE 2300 ATLANTA, GA 30303 TEL: (404) 477-3003 FAX: (404) 477-3606	 Level II Certification #6924	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="3">REVISION DATES</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	REVISION DATES																		ATLANTA BELTLINE OFFICE: EROSION CONTROL LEGEND AND UNIFORM CODE (SHEET 1 OF 7) PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION DRAWING No. 52-001
REVISION DATES																					

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 GA. STD 1031 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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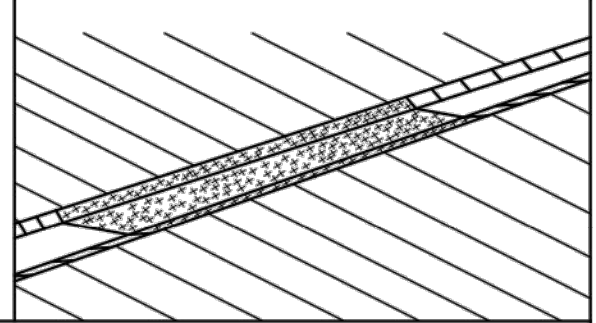

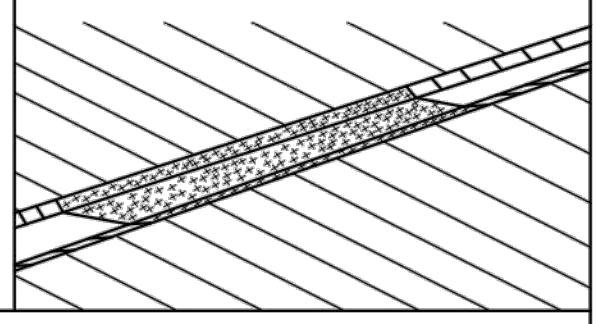
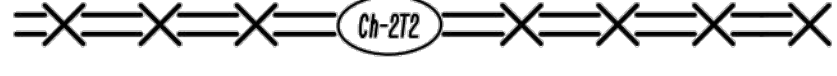
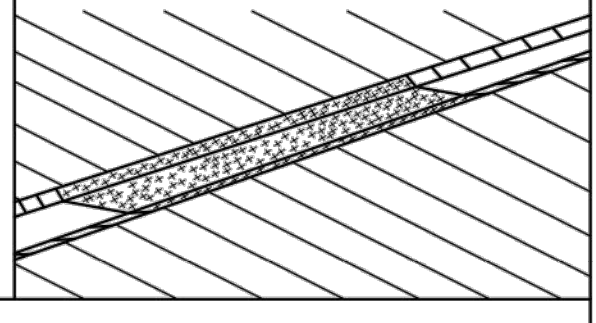
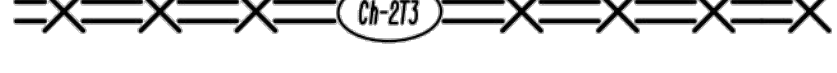
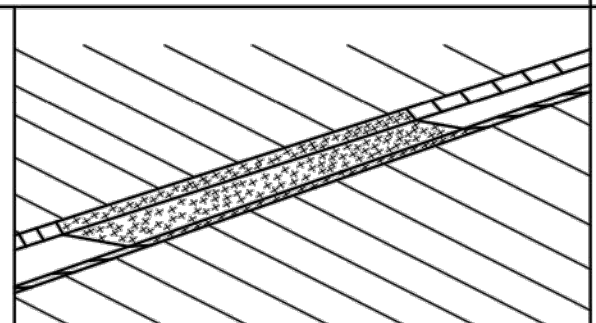
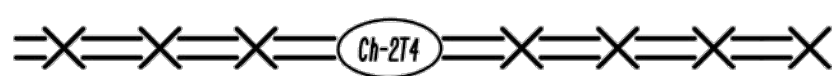
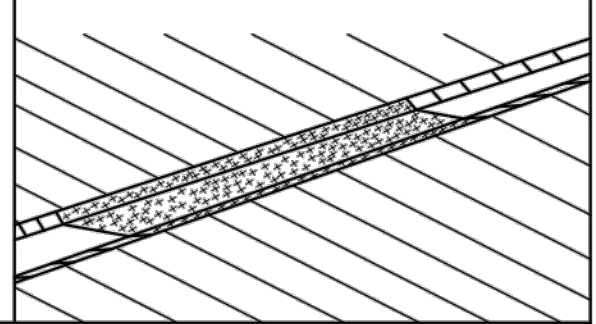
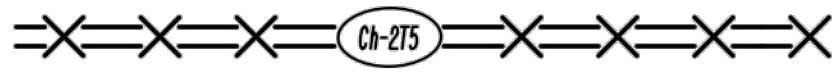
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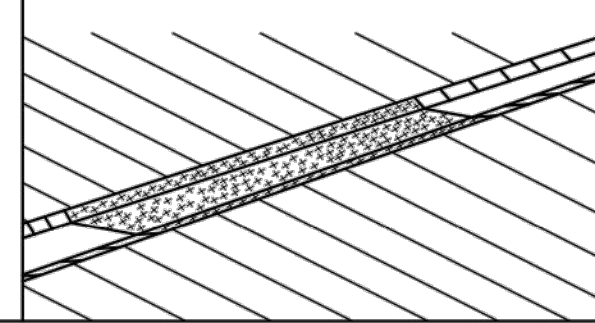

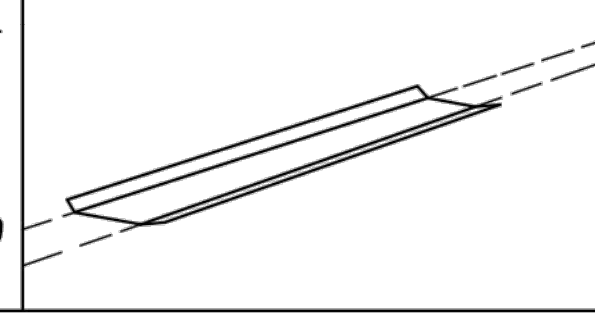

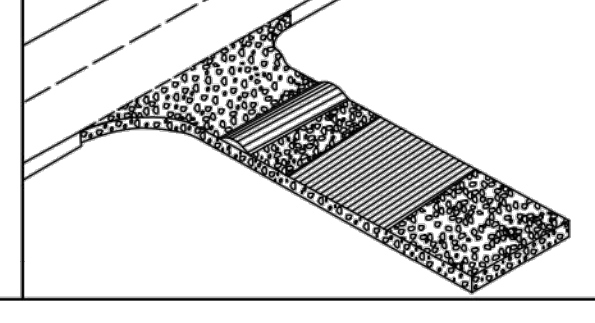
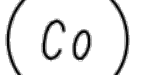
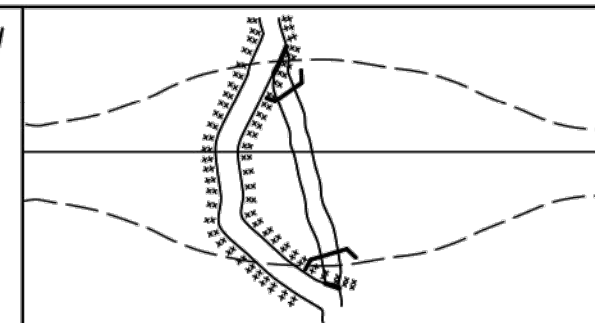

ATLANTA BELTLINE

OFFICE:

EROSION CONTROL LEGEND AND UNIFORM CODE (SHEET 2 OF 7)
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No.
 52-002

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 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 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:

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Level II Certification #6924

REVISION DATES

ATLANTA BELTLINE

OFFICE:

EROSION CONTROL LEGEND
AND UNIFORM CODE (SHEET 3 OF 7)
PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

DRAWING No.
52-003

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY 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 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.
	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 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 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.
	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.
DI-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		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.
	LINE CODE		
DI-2	DIVERSION CHANNEL SECTION 205		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.
	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 CONSTRUCTION DETAIL D-19 SECTION 163		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'.
	LINE CODE		THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

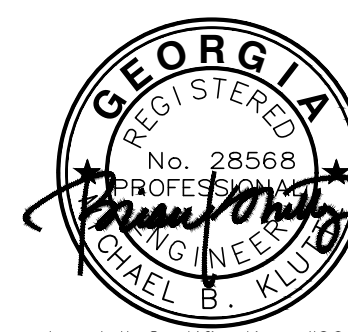
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL 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).
	LINE CODE		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		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).
	LINE CODE		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577		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).
	LINE CODE		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		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).
	LINE CODE		

NOTE:

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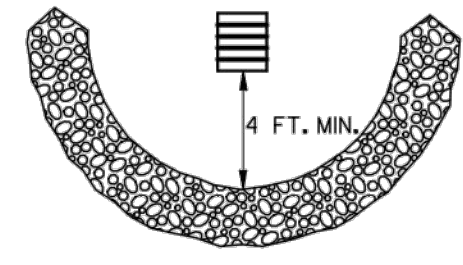

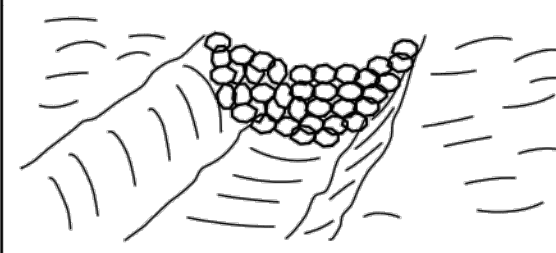

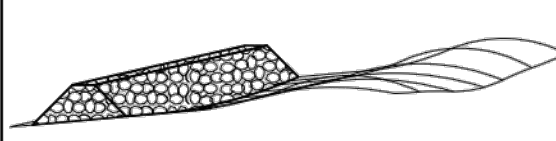

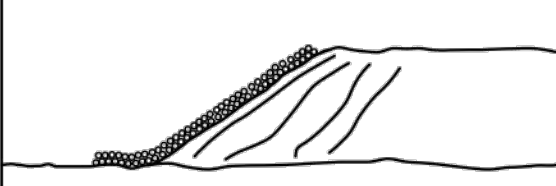
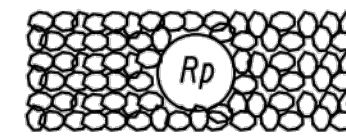
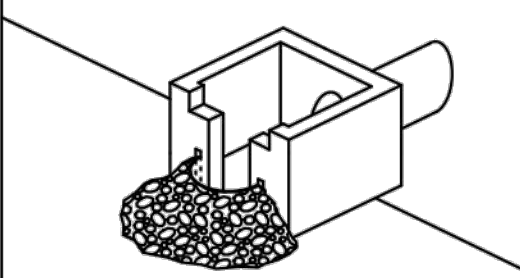

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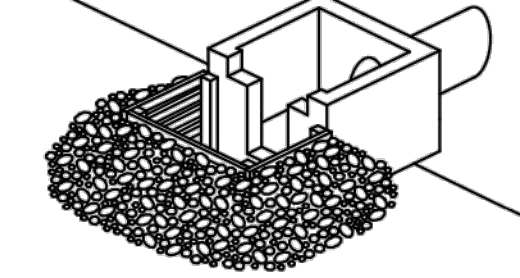
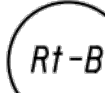
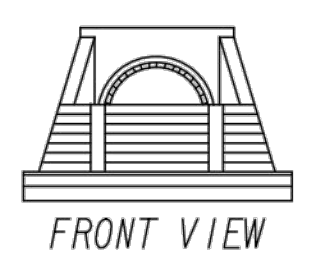
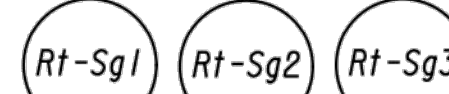
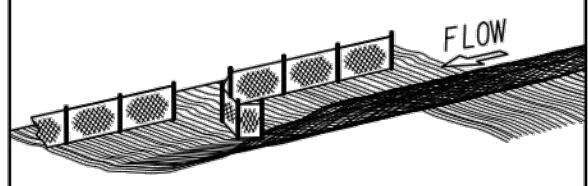

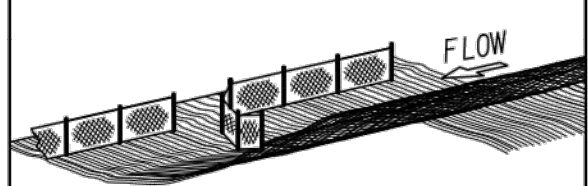
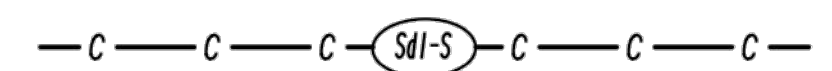
ATLANTA BELTLINE

OFFICE:

EROSION CONTROL LEGEND
AND UNIFORM CODE (SHEET 4 OF 7)
PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

DRAWING No.
52-004

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 		

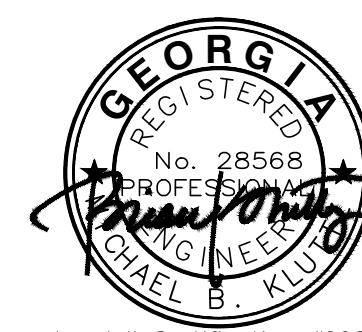
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5" - 1.0" SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND 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		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
		SYMBOL 	
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.
		LINE CODE 	
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.
		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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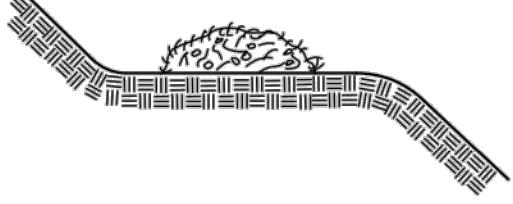
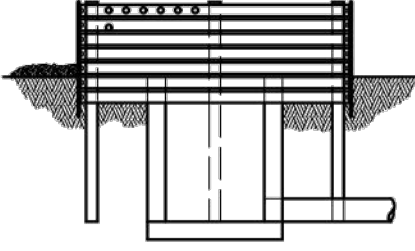
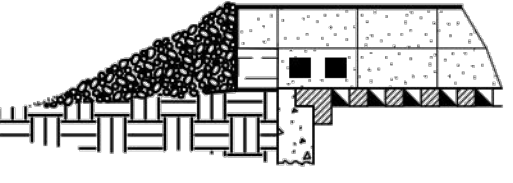
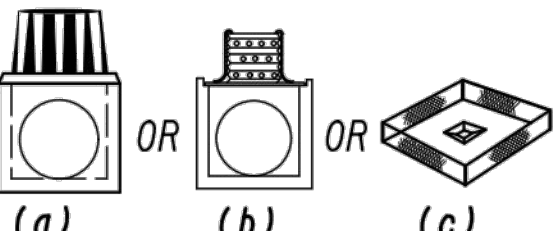
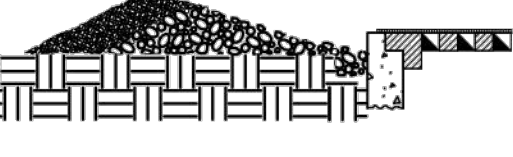
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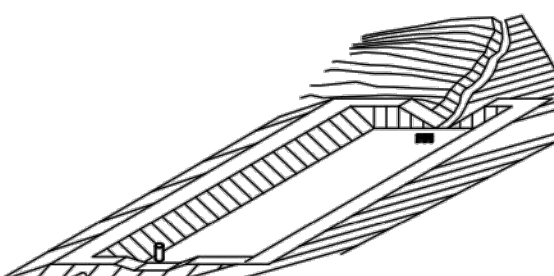
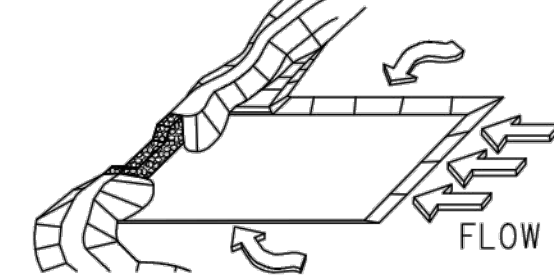
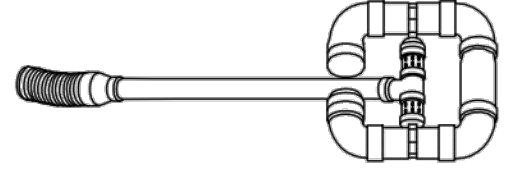
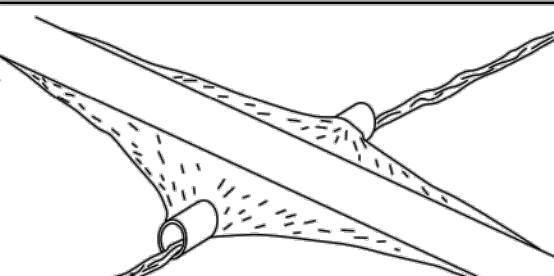
ATLANTA BELTLINE

OFFICE:

EROSION CONTROL LEGEND
AND UNIFORM CODE (SHEET 5 OF 7)
PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

DRAWING No.
52-005

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-42 SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL Sd2-F		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL Sd2-G		

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

NOTE:

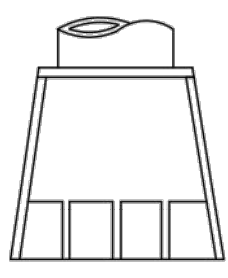

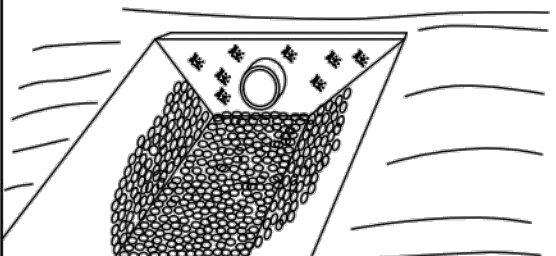
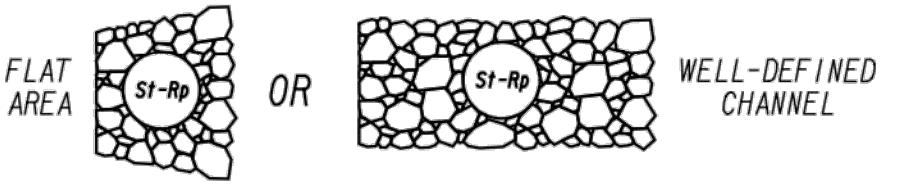
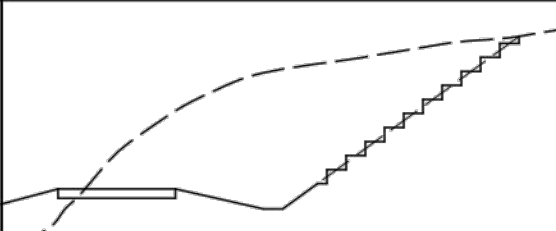
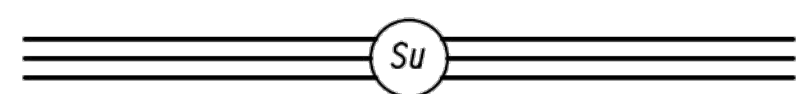
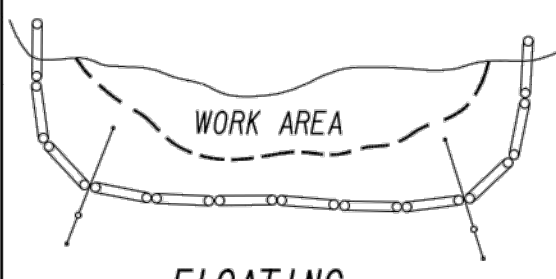

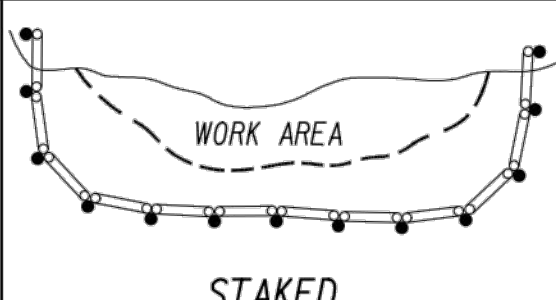

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- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".


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 Level II Certification #6924

REVISION DATES	

ATLANTA BELTLINE
 OFFICE:
**EROSION CONTROL LEGEND
 AND UNIFORM CODE (SHEET 6 OF 7)**
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION
 DRAWING No.
52-006

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332	 SYMBOL 	A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603	 PATTERN 	RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 ≤ 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 ≤ 0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205	 LINE CODE 	PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 LINE CODE 	A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 LINE CODE 	A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.

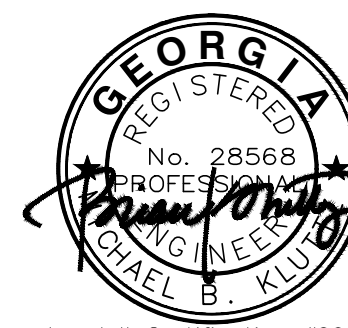
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

- 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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Level II Certification #6924

REVISION DATES

ATLANTA BELTLINE

OFFICE:

EROSION CONTROL LEGEND
AND UNIFORM CODE (SHEET 7 OF 7)
PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

DRAWING No.
52-007

Existing Storm Pipes

ID	Label	Start Node	Set Invert to Start?	Invert (Start) (ft)	Stop Node	Set Invert to Stop?	Invert (Stop) (ft)	Has User Defined Length?	Length (User Defined) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Section Type	Diameter (in)	Material	Manning's n	Flow (ft ³ /s)	Velocity (ft/s)	Depth (Out) (ft)	Capacity (Full Flow) (ft ³ /s)	Flow / Capacity (%)	Depth (Normal) / Rise (%)
1004	CO-319	MH-112	TRUE	949.56	MH-113	TRUE	940	FALSE	187.3	0.051	Circle	24	Concrete	0.013	0	0	0	51.15	0	(N/A)	
1006	CO-320	MH-113	TRUE	940	MH-114	TRUE	933.5	FALSE	160.3	0.041	Circle	24	Concrete	0.013	0	0	0.77	45.99	0	(N/A)	
1008	CO-321	MH-114	TRUE	933.5	MH-115	TRUE	916.5	FALSE	386.4	0.044	Circle	24	Concrete	0.013	4.42	9.46	0.75	47.47	9.3	20.6	
1010	CO-322	MH-115	TRUE	916.5	MH-116	TRUE	912.55	FALSE	95	0.042	Circle	24	Concrete	0.013	4.3	9.19	0.87	46.13	9.3	20.6	
1012	CO-323	MH-116	TRUE	912.55	MH-117	TRUE	905.35	FALSE	172.7	0.042	Circle	24	Concrete	0.013	5.57	9.93	0.86	46.15	12.1	23.5	
1014	CO-324	MH-117	TRUE	905.35	MH-118	TRUE	900.5	FALSE	71.6	0.067	Circle	24	Concrete	0.013	5.5	11.73	1.15	58.71	9.4	20.7	
1016	CO-325	MH-118	TRUE	900.5	MH-119	TRUE	895	FALSE	117.6	0.047	Circle	24	Concrete	0.013	9.72	12.12	1.15	48.84	19.9	30.3	
1018	CO-326	MH-119	TRUE	895	MH-120	TRUE	887.5	FALSE	199.1	0.038	Circle	24	Concrete	0.013	9.66	11.21	7.34	43.92	22	31.9	
1020	CO-327	MH-120	TRUE	887.5	MH-121	FALSE	883	FALSE	83.8	0.054	Circle	24	Concrete	0.013	69.12	22	1.99	52.36	132	(N/A)	
1022	CO-328	MH-121	TRUE	872	MH-122	FALSE	869.94	FALSE	24.5	0.082	Circle	24	Concrete	0.013	87.05	27.71	3.91	64.93	134.1	(N/A)	
1027	CO-330	MH-124	TRUE	958.25	MH-125	TRUE	944.4	FALSE	276.8	0.05	Circle	24	Concrete	0.013	2.31	8.17	0.66	50.58	4.6	14.6	
1029	CO-331	MH-125	TRUE	944.4	MH-126	TRUE	940	FALSE	72.9	0.06	Circle	24	Concrete	0.013	3.34	9.74	0.65	55.54	6	16.6	
1031	CO-332	MH-126	TRUE	940	MH-127	TRUE	914	FALSE	404.1	0.064	Circle	24	Concrete	0.013	3.32	9.94	1.27	57.39	5.8	16.3	
1033	CO-333	MH-127	TRUE	914	MH-128	TRUE	896	FALSE	298.9	0.06	Circle	24	Concrete	0.013	7.48	12.32	1.03	55.5	13.5	24.8	
1035	CO-334	MH-128	TRUE	896	MH-129	TRUE	888.5	FALSE	148.9	0.05	Circle	24	Concrete	0.013	7.36	11.51	1	50.75	14.5	25.7	
1037	CO-335	MH-129	TRUE	888.5	MH-130	TRUE	885.58	FALSE	152.2	0.019	Circle	24	Concrete	0.013	7.29	8.13	1.22	31.35	23.3	32.8	
1039	CO-336	MH-130	TRUE	885.58	MH-131	TRUE	882.9	FALSE	156.2	0.017	Circle	24	Concrete	0.013	7.21	7.79	2.6	29.65	24.3	33.6	
1041	CO-337	MH-131	TRUE	882.9	MH-132	TRUE	879.06	FALSE	131.5	0.029	Circle	24	Concrete	0.013	13.04	11.12	1.35	38.73	33.7	40	
1043	CO-338	MH-132	TRUE	879.06	MH-133	TRUE	874.5	FALSE	151.8	0.03	Circle	24	Concrete	0.013	12.94	11.19	5.5	39.18	33	39.6	
1044	CO-339	MH-133	TRUE	874.5	MH-134	TRUE	872	FALSE	131	0.019	Circle	24	Concrete	0.013	19.94	6.35	8	31.25	63.8	58	
1048	CO-341	CB-124	TRUE	937.66	MH-114	FALSE	936.67	FALSE	32.9	0.03	Circle	12	Concrete	0.013	4.43	8.54	0.65	6.17	71.8	62.7	
1050	CO-342	CB-125	TRUE	914.86	MH-116	TRUE	912.55	FALSE	44.6	0.051	Circle	12	Concrete	0.013	1.35	7.63	0.86	8.07	16.8	27.7	
1053	CO-343	CB-126	TRUE	900.93	MH-118	TRUE	900.5	FALSE	20	0.021	Circle	12	Concrete	0.013	4.48	5.7	1.2	5.22	85.7	71.2	
1056	CO-344	CB-127	TRUE	889.67	CB-128	TRUE	889.26	FALSE	35.1	0.012	Circle	18	Concrete	0.013	19.01	10.76	3.31	11.37	167.3	(N/A)	
1057	CO-345	CB-128	TRUE	889.26	MH-120	TRUE	887.5	FALSE	49.2	0.036	Circle	15	Concrete	0.013	27.32	22.26	7.5	12.24	223.2	(N/A)	
1060	CO-346	CB-129	TRUE	889.16	CB-130	FALSE	888.83	FALSE	36.8	0.009	Circle	15	Vitrified C	0.013	6.12	4.98	4.27	6.1	100.2	82.2	
1062	CO-347	CB-130	TRUE	888.73	CB-131	TRUE	888.5	FALSE	41.9	0.005	Circle	15	Concrete	0.013	12.53	10.21	4.21	4.78	262.1	(N/A)	
1063	CO-348	CB-131	TRUE	888.5	MH-120	TRUE	887.5	FALSE	36	0.028	Circle	18	Concrete	0.013	36.37	20.58	7.5	17.51	207.8	(N/A)	
1066	CO-349	CB-132	TRUE	888.03	CB-133	TRUE	886.69	FALSE	20.4	0.067	Circle	15	Concrete	0.013	0.26	5	0.52	16.72	1.5	8.7	
1068	CO-350	CB-133	TRUE	886.69	MH-142	TRUE	885.5	FALSE	24.8	0.048	Circle	15	Concrete	0.013	1.39	7.31	0.65	14.09	9.8	21.2	
1076	CO-351	MH-142	TRUE	885.5	MH-121	FALSE	884.69	FALSE	27.4	0.03	Circle	24	Concrete	0.013	2.88	7.29	0.38	39.18	7.4	18.4	
1078	CO-352	CB-134	TRUE	890.31	MH-142	FALSE	889	FALSE	21.8	0.06	Circle	15	Concrete	0.013	1.5	8.1	0.27	15.76	9.5	20.8	
1080	CO-353	CB-136	TRUE	887.76	MH-133	FALSE	887.64	FALSE	44.1	0.003	Circle	24	Concrete	0.013	1.51	2.58	0.43	11.81	12.8	24.2	
1082	CO-354	CB-135	TRUE	889.61	MH-133	FALSE	889.04	FALSE	19.2	0.03	Circle	24	Concrete	0.013	6.53	9.25	0.62	39.18	16.7	27.6	
1084	CO-355	CB-137	TRUE	900.36	MH-131	FALSE	899.73	FALSE	21.1	0.03	Circle	18	Ductile Irc	0.012	6.59	10.04	0.68	19.71	33.4	39.8	
1089	CO-356	CB-138	TRUE	905	MH-130	FALSE	903.77	FALSE	41.3	0.03	Circle	15	Concrete	0.013	0	0	0	11.19	0	(N/A)	
1091	CO-357	CB-139	TRUE	926.79	MH-127	FALSE	925.8	FALSE	32.5	0.03	Circle	18	Concrete	0.013	4.13	8.33	0.51	18.19	22.7	32.4	
1093	CO-358	CB-140	TRUE	915.02	MH-127	FALSE	914.24	FALSE	26.3	0.03	Circle	18	Concrete	0.013	0.38	4.14	0.89	18.19	2.1	10	
1095	CO-359	CB-141	TRUE	950.03	MH-125	FALSE	949.1	FALSE	31.1	0.03	Circle	15	Concrete	0.013	0.73	5.15	0.22	11.19	6.6	17.3	
1097	CO-360	CB-142	TRUE	948	MH-125	FALSE	947.04	FALSE	32.3	0.03	Circle	15	Concrete	0.013	0.38	4.23	0.16	11.19	3.4	12.6	
1099	CO-361	CB-151	TRUE	960	MH-124	FALSE	958.95	FALSE	35.4	0.03	Circle	12	Concrete	0.013	2.32	7.3	0.43	6.17	37.5	42.4	
1105	CO-363	MH-122	TRUE	869.84	OF-41	TRUE	869	FALSE	15.5	0.056	Circle	48	Concrete	0.013	137.27	25.61	2.69	339.9	40.4	44.2	
1117	CO-368	CB-148	TRUE	889.82	CB-149	FALSE	889.79	FALSE	4	0.008	Circle	18	Concrete	0.013	7.49	5.75	1.04	9.1	82.4	69.1	
1118	CO-369	CB-149	TRUE	887.14	MH-122	FALSE	886.64	FALSE	7.2	0.071	Circle	30	Concrete	0.013	10.35	14.04	0.73	109.62	9.4	20.8	
1119	CO-370	CB-143	TRUE	886.77	MH-122	FALSE	886.74	FALSE	13.2	0.002	Circle	18	Concrete	0.013	47.28	26.75	1.5	5.05	937	(N/A)	
1120	CO-371	CB-146	TRUE	890.18	CB-148	TRUE	889.82	FALSE	10.5	0.036	Circle	18	Concrete	0.013	4.5	9.11	1.11	19.93	22.6	32.3	

APPENDIX B Nephelometric Turbidity Unit (NTU) TABLES

Trout Streams
Surface Water Drainage Area, square miles

Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	25	50	75	150	300	500	500	500
10.01-25	25	25	50	75	150	200	500	500
25.01-50	25	25	25	50	75	100	300	500
50.01-100	20	25	25	35	59	75	150	300
100.01+	20	20	25	25	25	50	60	100

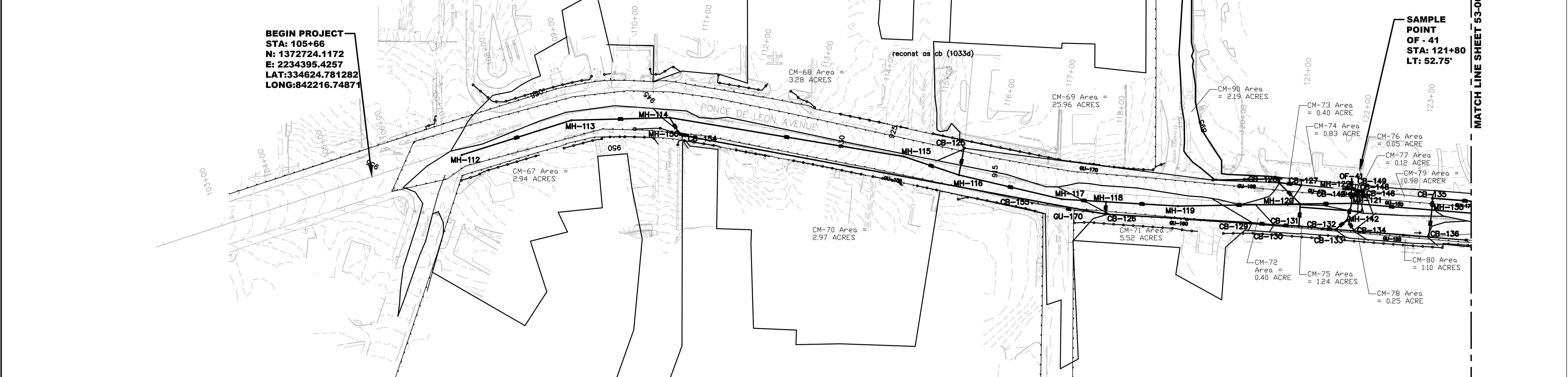
Waters Supporting Warm Water Fisheries
Surface Water Drainage Area, square miles

Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

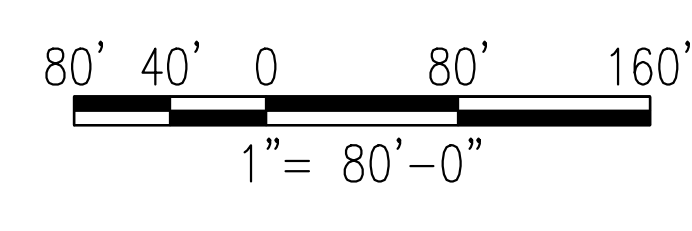
To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4 is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4 is 100 NTU.



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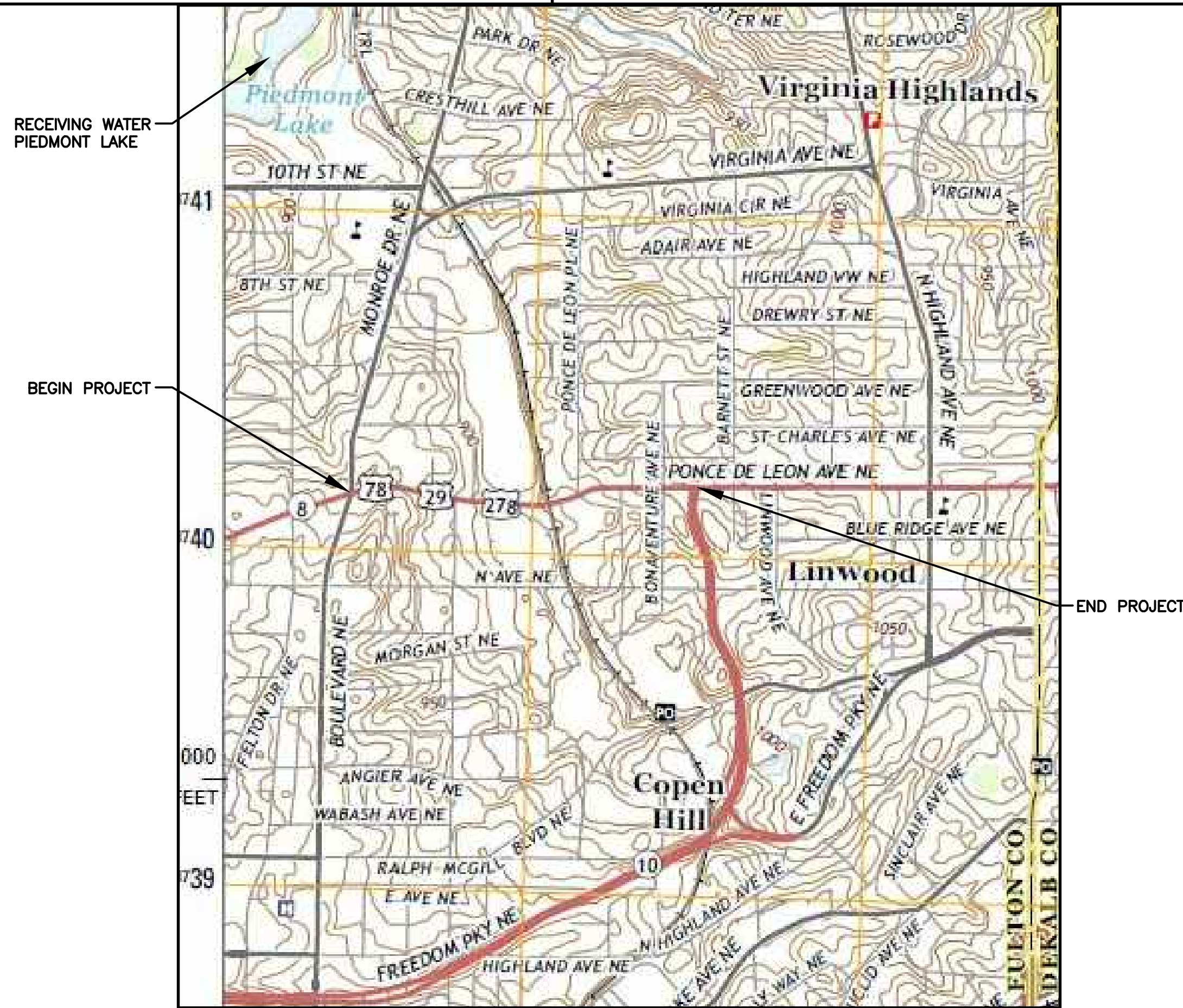


REVISION	DATE	DESCRIPTION

ATLANTA BELTLINE

OFFICE:
**EROSION CONTROL
 DRAINAGE AREA MAP**
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
53-001

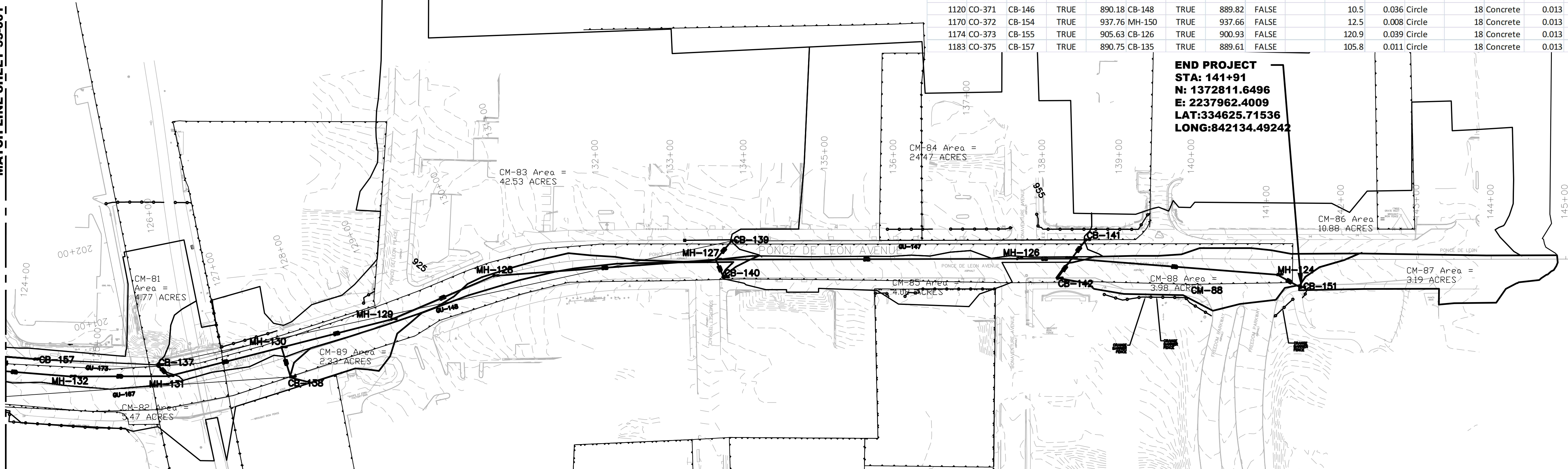


USGS MAP OF EXISTING CONTOURS
 SCALE: NTS

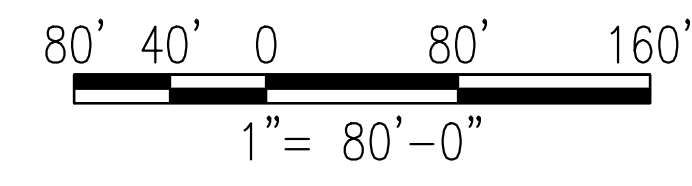
Proposed Storm Pipes																					
ID	Label	Start Node	Set Invert to Start?	Invert (Start) (ft)	Stop Node	Set Invert to Stop?	Invert (Stop) (ft)	Has User Defined Length?	Length (User Defined) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Section Type	Diameter (in)	Material	Manning's n	Flow (ft³/s)	Velocity (ft/s)	Depth (Out) (ft)	Capacity (Full Flow) (ft³/s)	Flow / Capacity (Design) (%)	Depth (Normal) / Rise (%)
1004	CO-319	MH-112	TRUE	949.56	MH-113	TRUE	940	FALSE	187.3	187.3	0.051	Circle	24	Concrete	0.013	0	0	0	51.15	0	(N/A)
1006	CO-320	MH-113	TRUE	940	MH-114	TRUE	933.5	FALSE	160.3	160.3	0.041	Circle	24	Concrete	0.013	0	0	1.12	45.59	0	(N/A)
1008	CO-321	MH-114	TRUE	933.5	MH-115	TRUE	916.5	FALSE	386.4	386.4	0.044	Circle	24	Concrete	0.013	8.78	11.54	1.1	47.47	18.5	29.1
1010	CO-322	MH-115	TRUE	916.5	MH-116	TRUE	912.55	FALSE	95	95	0.042	Circle	24	Concrete	0.013	8.58	11.23	1.63	46.13	18.6	29.2
1012	CO-323	MH-116	TRUE	912.55	MH-117	TRUE	905.35	FALSE	172.7	172.7	0.042	Circle	24	Concrete	0.013	17.33	13.64	1.61	46.15	37.6	42.5
1014	CO-324	MH-117	TRUE	905.35	MH-118	TRUE	900.5	FALSE	71.6	71.6	0.067	Circle	24	Concrete	0.013	17.18	16.22	2.07	58.71	29.3	37.1
1016	CO-325	MH-118	TRUE	900.5	MH-119	TRUE	895	FALSE	117.6	117.6	0.047	Circle	24	Concrete	0.013	31.66	16.54	4.15	48.84	64.8	58.6
1018	CO-326	MH-119	TRUE	895	MH-120	TRUE	887.5	FALSE	199.1	199.1	0.038	Circle	24	Concrete	0.013	31.51	10.03	7.5	43.92	71.8	62.7
1020	CO-327	MH-120	TRUE	887.5	MH-121	FALSE	883	FALSE	83.8	83.8	0.054	Circle	24	Concrete	0.013	74.67	23.77	2	52.36	142.6	(N/A)
1022	CO-328	MH-121	TRUE	872	MH-122	FALSE	869.94	FALSE	24.5	24.5	0.082	Circle	24	Concrete	0.013	108.64	34.58	3.99	64.93	167.3	(N/A)
1027	CO-330	MH-124	TRUE	958.25	MH-125	TRUE	944.4	FALSE	276.8	276.8	0.05	Circle	24	Concrete	0.013	2.31	8.17	1.18	50.58	4.6	14.6
1029	CO-331	MH-125	TRUE	944.4	MH-126	TRUE	940	FALSE	72.9	72.9	0.06	Circle	24	Concrete	0.013	9.85	13.34	1.14	55.54	17.7	28.5
1031	CO-332	MH-126	TRUE	940	MH-127	TRUE	914	FALSE	404.1	404.1	0.064	Circle	24	Concrete	0.013	9.81	13.65	1.89	57.39	17.1	28
1033	CO-333	MH-127	TRUE	914	MH-128	TRUE	896	FALSE	298.9	298.9	0.06	Circle	24	Concrete	0.013	14.58	14.89	1.51	55.55	26.3	35
1035	CO-334	MH-128	TRUE	896	MH-129	TRUE	888.5	FALSE	148.9	148.9	0.05	Circle	24	Concrete	0.013	14.38	13.9	1.45	50.75	28.3	36.4
1037	CO-335	MH-129	TRUE	888.5	MH-130	TRUE	885.58	FALSE	152.2	152.2	0.019	Circle	24	Concrete	0.013	14.28	9.75	2.26	31.35	45.5	47.3
1039	CO-336	MH-130	TRUE	885.58	MH-131	TRUE	882.9	FALSE	156.2	156.2	0.017	Circle	24	Concrete	0.013	15.01	9.47	3.89	29.65	50.6	50.4
1041	CO-337	MH-131	TRUE	882.9	MH-132	TRUE	879.06	FALSE	131.5	131.5	0.029	Circle	24	Concrete	0.013	20.59	12.52	2.27	38.73	53.2	51.9
1043	CO-338	MH-132	TRUE	879.06	MH-133	TRUE	874.5	FALSE	151.8	151.8	0.03	Circle	24	Concrete	0.013	20.46	6.51	5.5	39.18	52.2	51.3
1044	CO-339	MH-133	TRUE	874.5	MH-134	TRUE	872	FALSE	131	131	0.019	Circle	24	Concrete	0.013	36.42	11.59	8	31.25	116.5	(N/A)
1048	CO-341	MH-150	TRUE	937.66	MH-114	FALSE	936.67	FALSE	32.9	32.9	0.03	Circle	12	Concrete	0.013	8.8	11.21	0.99	6.17	142.6	(N/A)
1050	CO-342	CB-125	TRUE	914.86	MH-116	TRUE	912.55	FALSE	44.6	44.6	0.051	Circle	12	Concrete	0.013	9.09	11.57	1.7	8.07	112.6	(N/A)
1053	CO-343	CB-126	TRUE	900.93	MH-118	TRUE	900.5	FALSE	20	20	0.021	Circle	12	Concrete	0.013	15.09	19.21	2.34	5.22	288.8	(N/A)
1056	CO-344	CB-127	TRUE	889.67	CB-128	TRUE	889.26	FALSE	35.1	35.1	0.012	Circle	18	Concrete	0.013	15.68	8.87	3.31	11.37	137.9	(N/A)
1057	CO-345	CB-128	TRUE	889.26	MH-120	TRUE	887.5	FALSE	49.2	49.2	0.036	Circle	15	Concrete	0.013	25.43	20.72	7.5	12.24	207.7	(N/A)
1060	CO-346	CB-129	TRUE	889.16	CB-130	FALSE	888.83	FALSE	36.8	36.8	0.009	Circle	18	Concrete	0.013	7.24	4.09	4.27	9.92	72.9	63.4
1062	CO-347	CB-130	TRUE	888.73	CB-131	TRUE	888.5	FALSE	41.9	41.9	0.005	Circle	15	Concrete	0.013	13.84	11.28	4.21	4.78	289.5	(N/A)
1063	CO-348	CB-131	TRUE	888.5	MH-120	TRUE	887.5	FALSE	36	36	0.028	Circle	18	Concrete	0.013	20.7	11.72	7.5	17.51	118.3	(N/A)
1066	CO-349	CB-132	TRUE	888.03	CB-133	TRUE	886.69	FALSE	20.4	20.4	0.067	Circle	15	Concrete	0.013	0	0	0.19	16.72	0	(N/A)
1068	CO-350	CB-133	TRUE	886.69	MH-142	TRUE	885.5	FALSE	24.8	24.8	0.048	Circle	15	Concrete	0.013	0.21	4.2	0.57	14.09	1.5	8.6
1076	CO-351	MH-142	TRUE	885.5	MH-121	FALSE	884.69	FALSE	27.4	27.4	0.03	Circle	24	Concrete	0.013	2.25	6.77	0.33	39.18	5.7	16.3
1078	CO-352	CB-134	TRUE	890.31	MH-142	FALSE	889	FALSE	21.8	21.8	0.06	Circle	15	Concrete	0.013	2.04	8.86	0.32	15.76	13	24.3
1080	CO-353	CB-136	TRUE	887.76	MH-133	FALSE	887.64	FALSE	44.1	44.1	0.003	Circle	24	Concrete	0.013	2.88	3.11	0.59	11.81	24.4	33.7
1082	CO-354	CB-135	TRUE	889.61	MH-133	FALSE	889.04	FALSE	19.2	19.2	0.03	Circle	24	Concrete	0.013	15.13	11.67	1.03	39.18	38.6	43.1
1084	CO-355	CB-137	TRUE	900.36	MH-131	FALSE	899.73	FALSE	21.1	21.1	0.03	Circle	18	Ductile Irc	0.012	6.28	9.91	0.66	19.71	31.9	38.8
1089	CO-356	CB-138	TRUE	905	MH-130	FALSE	903.77	FALSE	41.3	41.3	0.03	Circle	15	Concrete	0.013	0.96	5.57	0.25	11.19	8.6	19.8
1091	CO-357	CB-139	TRUE	926.79	MH-127	FALSE	925.8	FALSE	32.5	32.5	0.03	Circle	18	Concrete	0.013	4.84	8.71	0.56	18.19	26.6	35.2
1093	CO-358	CB-140	TRUE	915.02	MH-127	FALSE	914.24	FALSE	26.3	26.3	0.03	Circle	18	Concrete	0.013	0.38	4.14	1.42	18.19	2.1	10
1095	CO-359	CB-141	TRUE	950.03	MH-125	FALSE	949.1	FALSE	31.1	31.1	0.03	Circle	15	Concrete	0.013	5.15	8.93	0.63	11.19	4.6	47.6
1097	CO-360	CB-142	TRUE	948	MH-125	FALSE	947.04	FALSE	32.3	32.3	0.03	Circle	15	Concrete	0.013	2.64	7.46	0.42	11.19	23.6	33.1
1099	CO-361	CB-151	TRUE	960	MH-124	FALSE	958.95	FALSE	35.4	35.4	0.03	Circle	12	Concrete	0.013	2.32	7.3	0.43	6.17	37.5	42.4
1105	CO-363	MH-122	TRUE	869.84	OF-41	TRUE	869	FALSE	15.5	15.5	0.056	Circle	48	Concrete	0.013	142.42	25.85	2.75	339.9	41.9	45.2
1117	CO-368	CB-148	TRUE	889.82	CB-149	FALSE	889.79	FALSE	4	4	0.008	Circle	18	Concrete	0.013	9.48	5.84	1.19	9.1	104.3	86.4
1118	CO-369	CB-149	TRUE	887.14	MH-122	FALSE	886.64	FALSE	7.2	7.2	0.071	Circle	30	Concrete	0.013	11.54	14.5	0.78	109.62	10.5	21.9
1119	CO-370	CB-143	TRUE	886.77	MH-122	FALSE	886.74	FALSE	13.2	13.2	0.002	Circle	18	Concrete	0.013	26.61	15.06	1.49	5.05	527.4	(N/A)
1120	CO-371	CB-146	TRUE	890.18	CB-148	TRUE	889.82	FALSE	10.5	10.5	0.036	Circle	18	Concrete	0.013	7.3	10.41	1.3	19.93	36.6	41.9
1170	CO-372	CB-154	TRUE	937.76	MH-150	TRUE	937.66	FALSE	12.5	12.5	0.008	Circle	18	Concrete	0.013	8.82	4.99	4.13	9.21	95.7	78.4
1174	CO-373	CB-155	TRUE	905.63	CB-126	TRUE	900.93	FALSE	120.9	120.9	0.039	Circle	18	Concrete	0.013	9.95	11.6	3.1	20.7	48.1	48.8
1183	CO-375	CB-157	TRUE	890.75	CB-135	TRUE	889.61	FALSE	105.8	105.8	0.011	Circle	18	Concrete	0.013	9.62	5.44	1.8	10.89	88.3	73

END PROJECT
 STA: 141+91
 N: 1372811.6496
 E: 2237962.4009
 LAT:334625.71536
 LONG:842134.49242

MATCH LINE SHEET 53-001

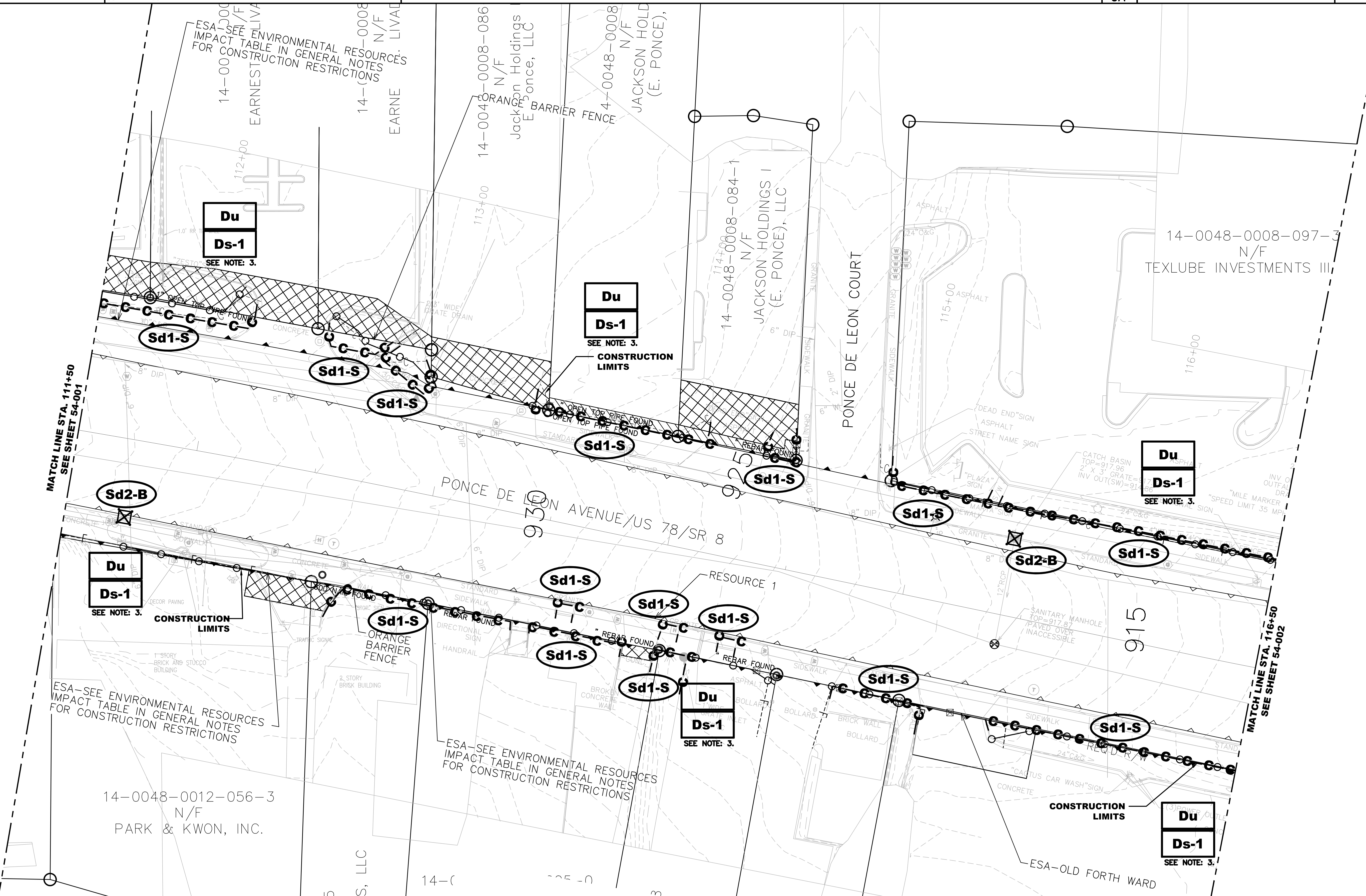


Atlanta BeltLine
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REVISION DATES	

ATLANTA BELTLINE
 OFFICE:
**EROSION CONTROL
 DRAINAGE AREA MAP**
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION
 DRAWING No.
53-002



LEGEND

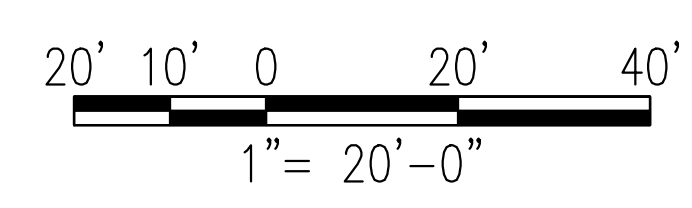
	- Sd2-B Baffle Box Inlet Protection
	- Sd2-F Gravel Drop Inlet Protection
	- Sd1-S Type C Silt Fence Protection
	- Double Row of Silt Fence by ESA Boundary Areas

EROSION CONTROL NOTES

1. ALL SILT PROTECTION FENCE TO BE INSTALLED OUTSIDE TRAFFIC LANES.
2. SILT FENCE WILL BE PLACED ALONG BACK OF SIDEWALK WHEN GROUND SLOPES DOWN FROM SIDEWALK.
3. STABILIZE ALL DISTURBED AREAS WITH Ds-1 AND Du.

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Level II Certification #6924



REVISION DATES	

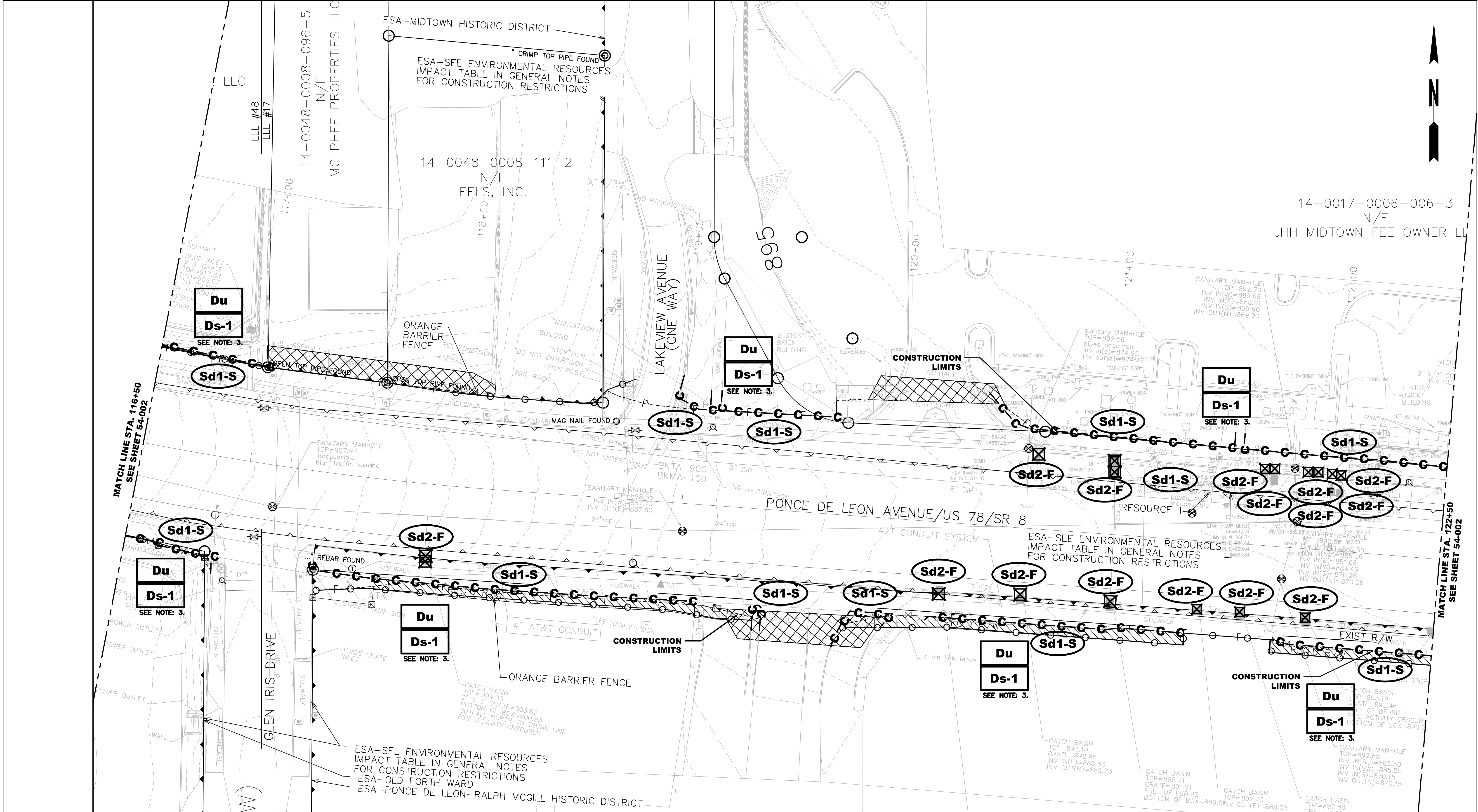
ATLANTA BELTLINE

OFFICE:

**BMP LOCATION DETAILS
CLEARING PHASE**

PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

DRAWING No.
54-002



LEGEND

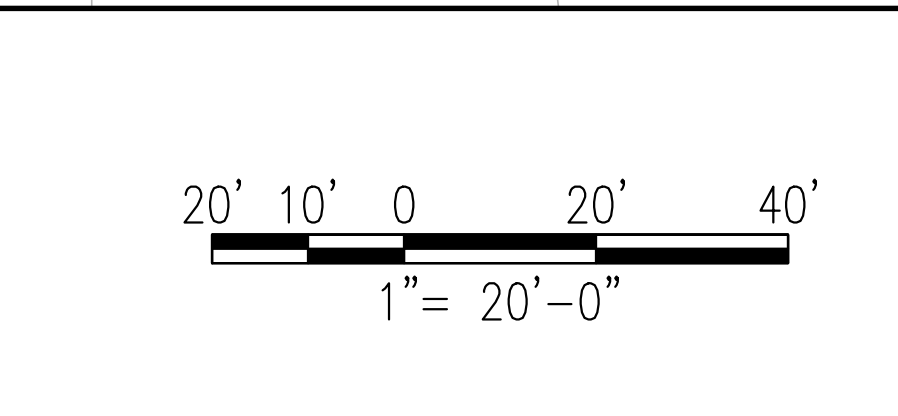
	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd1-S TYPE C SILT FENCE PROTECTION
	- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

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REVISION DATES

NO.	DATE	DESCRIPTION

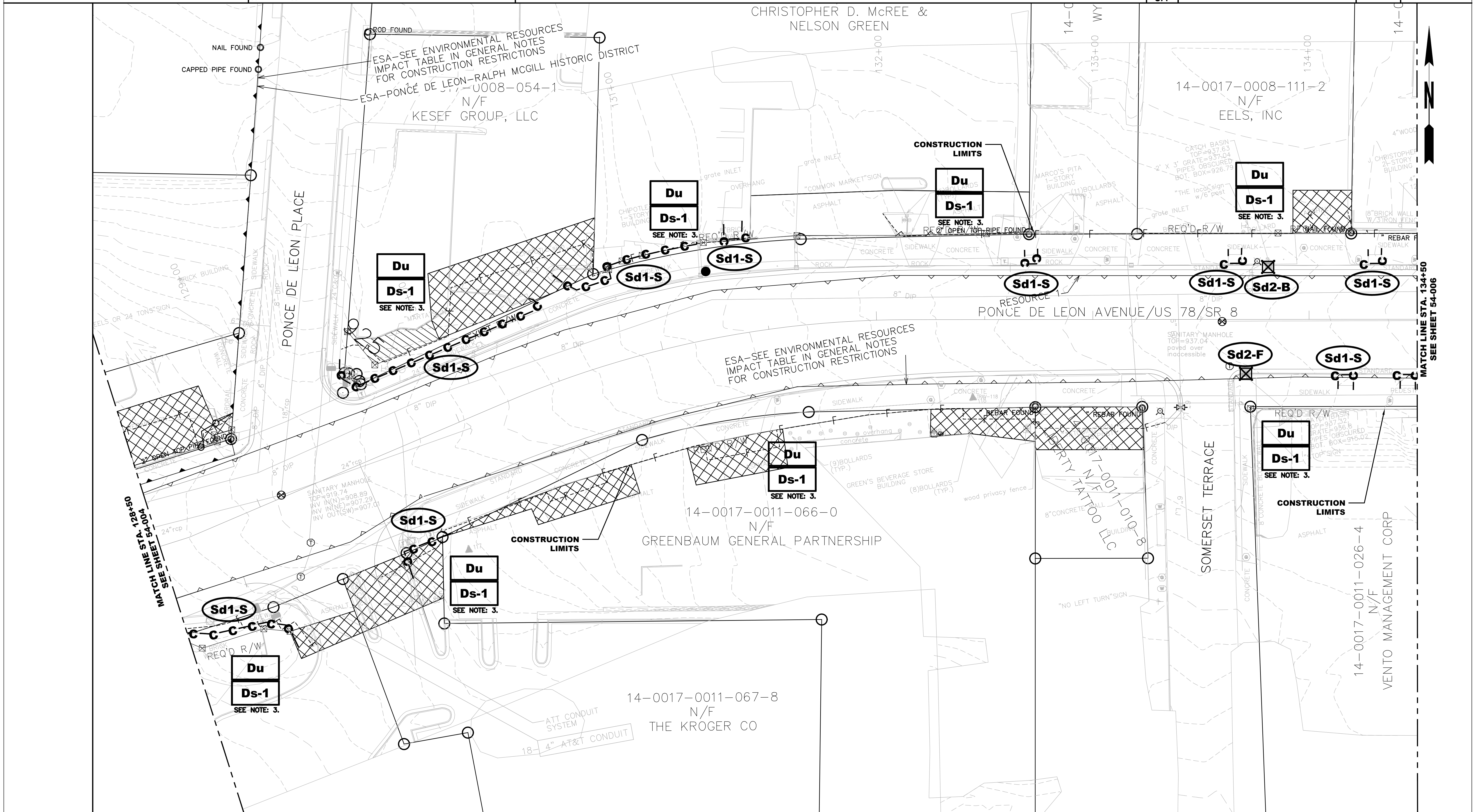
ATLANTA BELTLINE

OFFICE:

**BMP LOCATION DETAILS
CLEARING PHASE**

PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

DRAWING No.
54-003



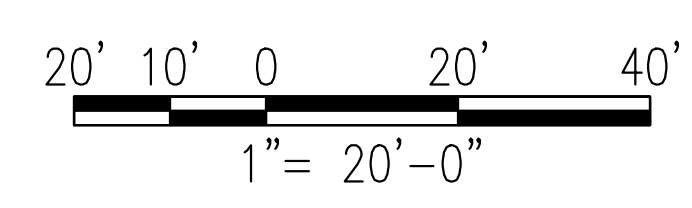
LEGEND

	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd1-S TYPE C SILT FENCE PROTECTION
	- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

EROSION CONTROL NOTES

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3. STABILIZE ALL DISTURBED AREAS WITH Ds-1 AND Du.

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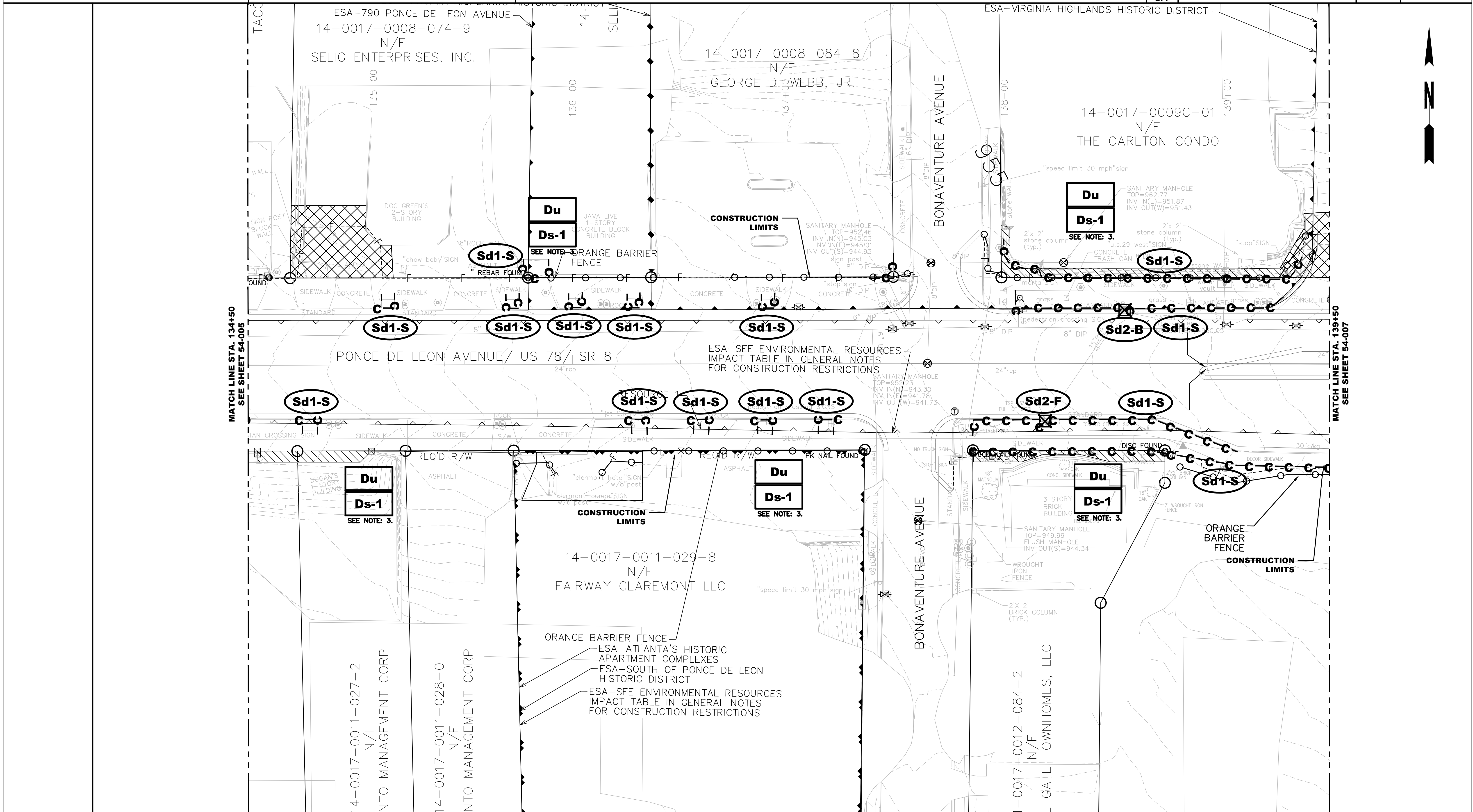


REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE
 OFFICE:
 BMP LOCATION DETAILS
 CLEARING PHASE
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION
 DRAWING No.
 54-005

MATCH LINE STA. 134+50
SEE SHEET 54-006



LEGEND

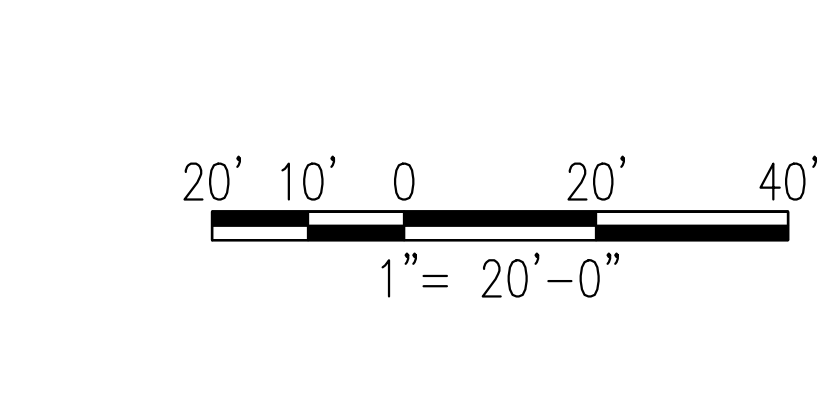
	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd1-S TYPE C SILT FENCE PROTECTION
	- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

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REVISION DATES

No.	Date	Description

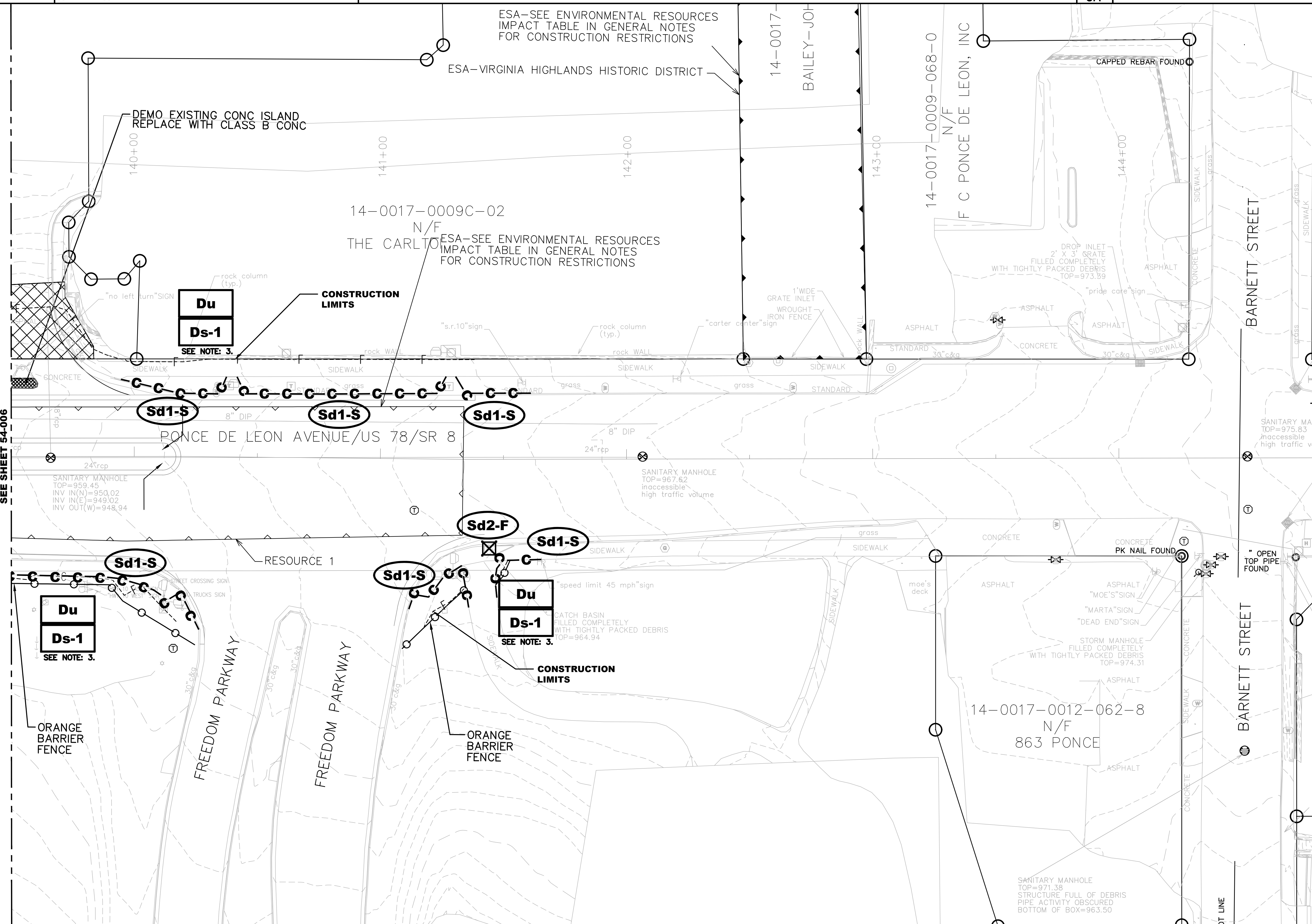
ATLANTA BELTLINE

OFFICE:

**BMP LOCATION DETAILS
 CLEARING PHASE**

PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No. **54-006**



MATCH LINE STA. 136+50
SEE SHEET 54-006



LEGEND

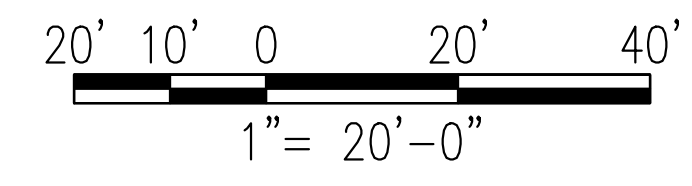
	- Sd2-B Baffle Box Inlet Protection
	- Sd2-F Gravel Drop Inlet Protection
	- Sd1-S Type C Silt Fence Protection
	- Double Row of Silt Fence by ESA Boundary Areas

EROSION CONTROL NOTES

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Level II Certification #6924



REVISION DATES

No.	Date	Description

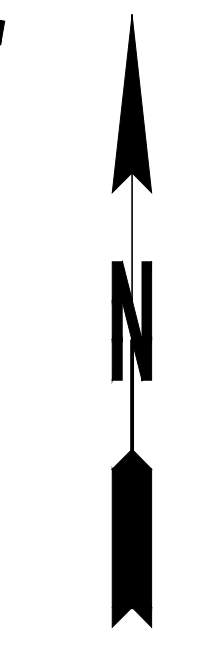
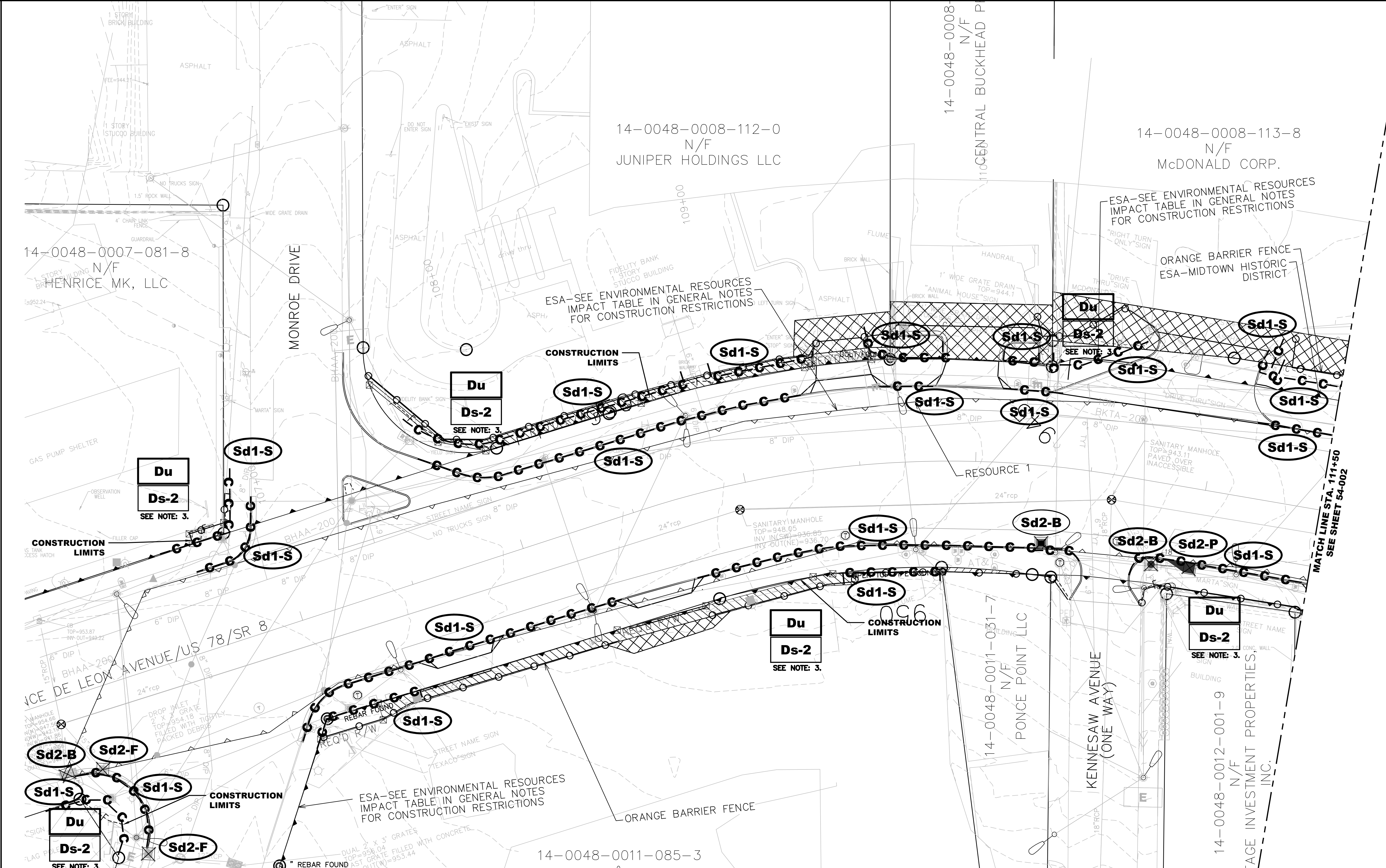
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**BMP LOCATION DETAILS
 CLEARING PHASE**

PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
54-007



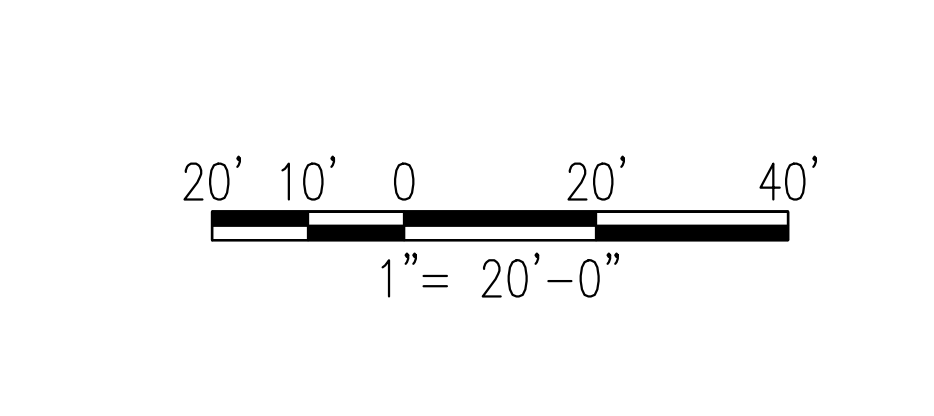
LEGGEND

	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd2-P PIG IN BLANKET DROP INLET PROTECTION
	- Sd1-S TYPE C SILT FENCE PROTECTION
	- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

EROSION CONTROL NOTES

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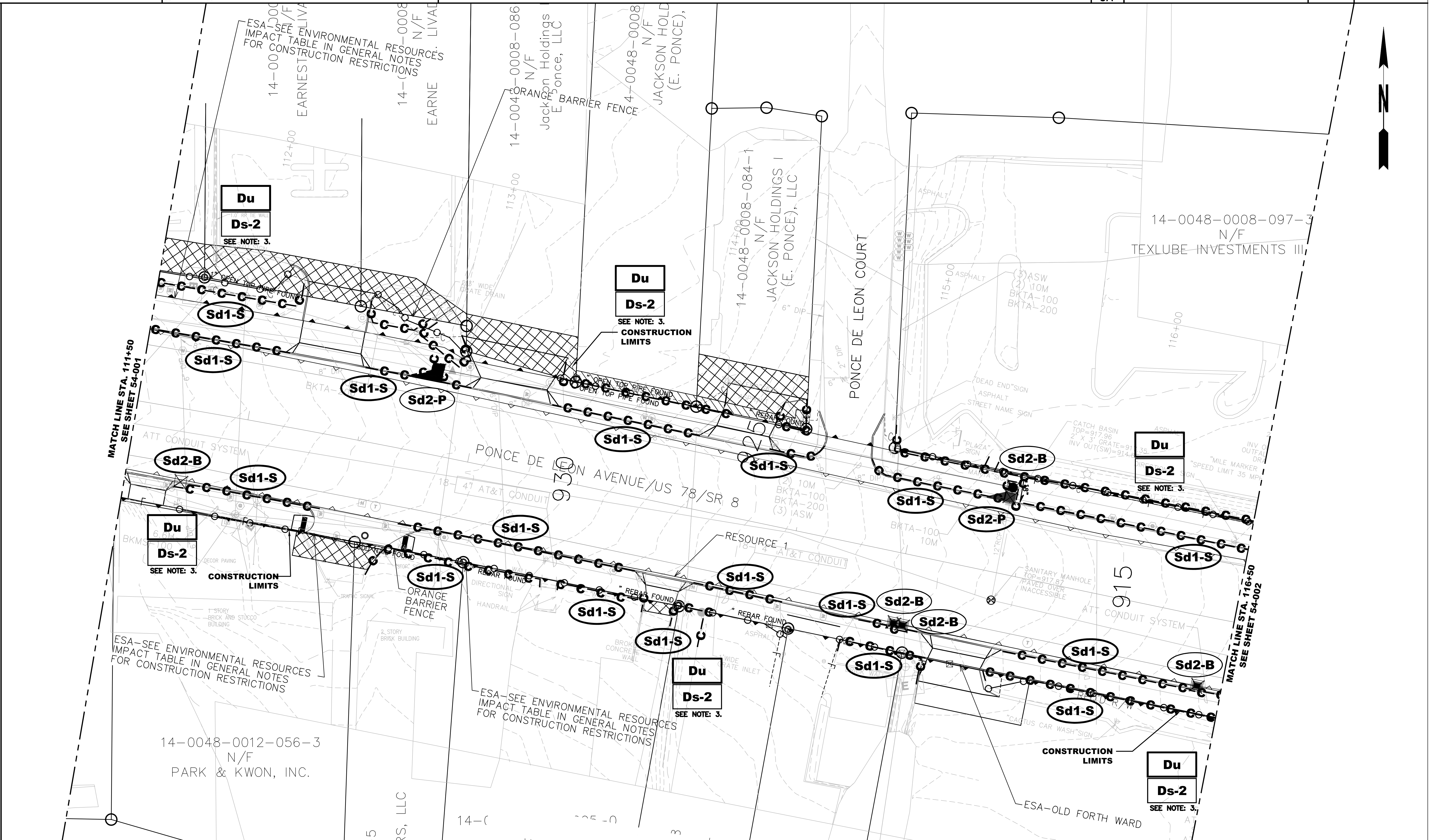
REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE

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 GRADING PHASE**
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
54-008



LEGEND

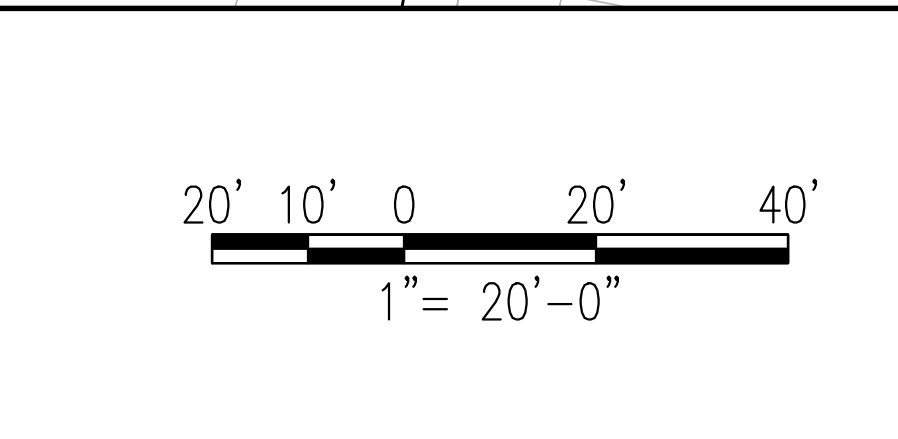
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EROSION CONTROL NOTES

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REGISTERED PROFESSIONAL ENGINEER
 MICHAEL B. KLUK
 Level II Certification #6924

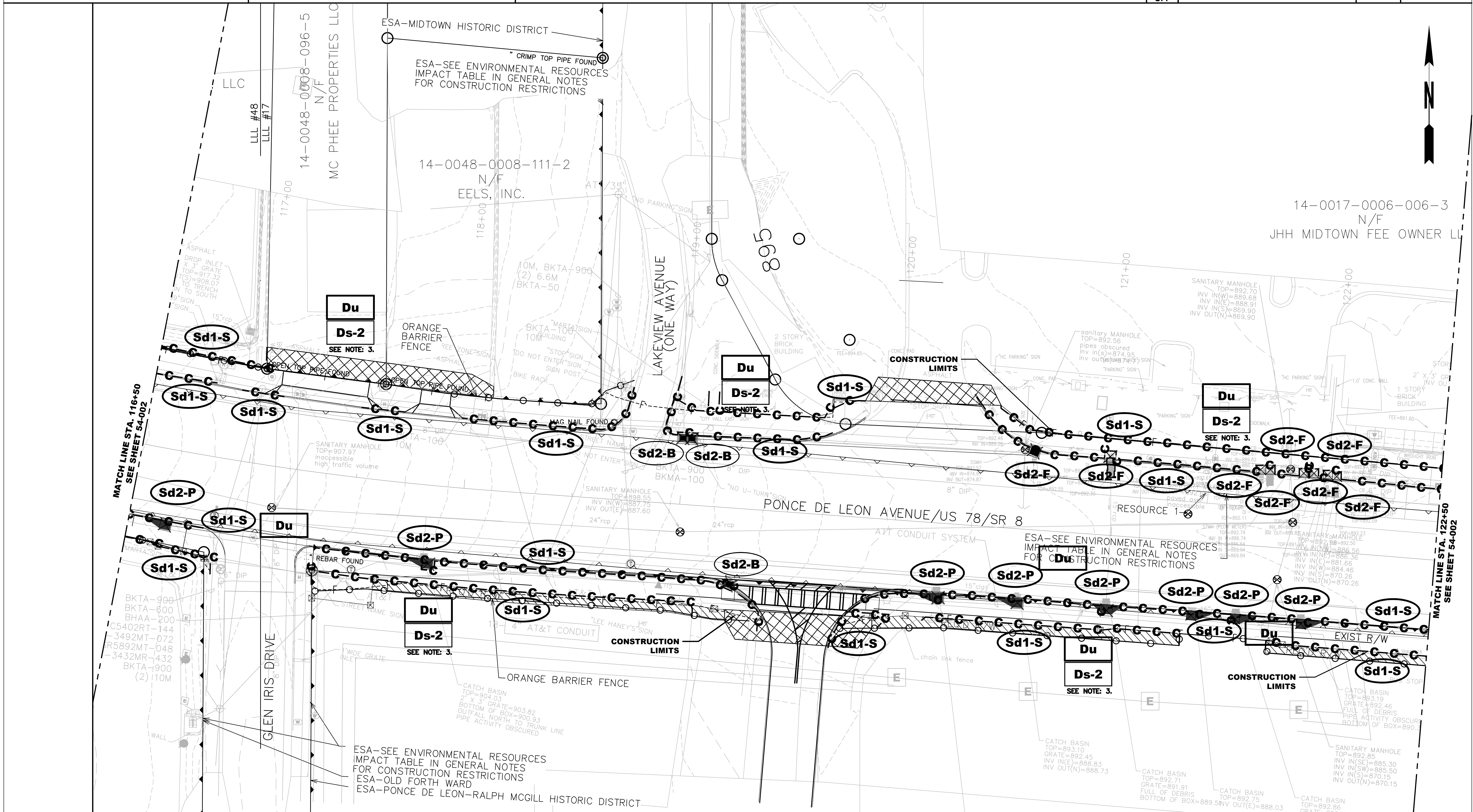


REVISION DATES

No.	Date	Description

ATLANTA BELTLINE
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BMP LOCATION DETAILS
GRADING PHASE
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No. 54-009



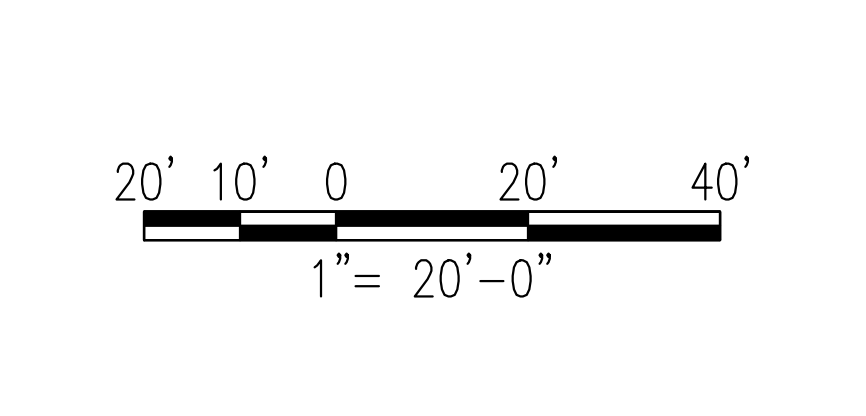
LEGEND

	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd2-P PIG IN BLANKET DROP INLET PROTECTION
	- Sd1-S TYPE C SILT FENCE PROTECTION
	- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

EROSION CONTROL NOTES

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REVISION DATES

NO.	DATE	DESCRIPTION

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GRADING PHASE
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
54-010

St-Rp #1

Area #1 = 0.07 Acre

Q₂₅ = CIA = 0.52 x 8.39 x 0.0 = 0.31 cfs
 Length of Apron (L_a) = 6 FT.
 Upstream width (W₁) = 3 FT.
 Downstream width (W₂) = 9 FT.
 Avg. Stone diameter (d_#) = 0.5 FT.
 Stone depth (t) = 0.75 FT.

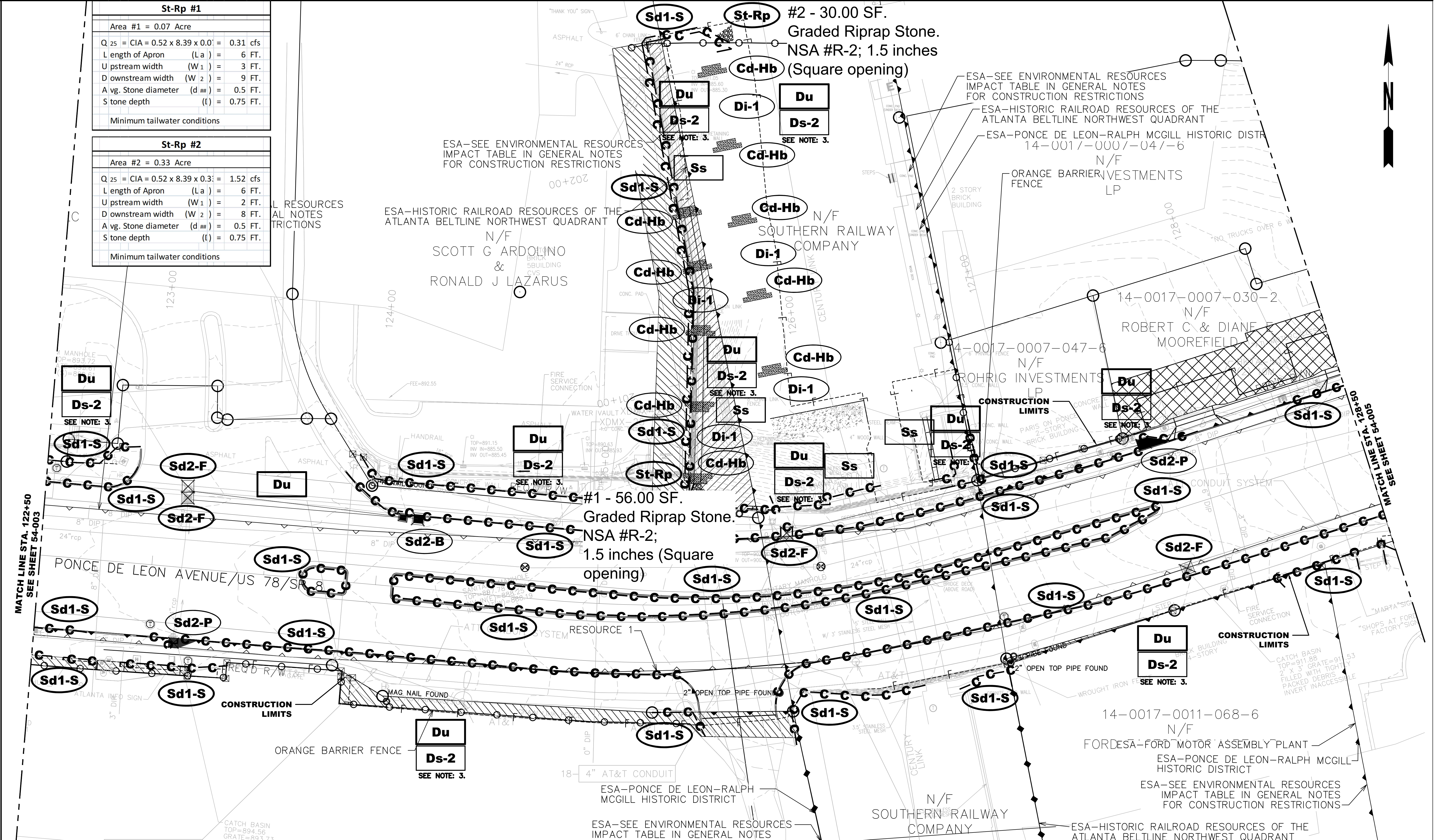
Minimum tailwater conditions

St-Rp #2

Area #2 = 0.33 Acre

Q₂₅ = CIA = 0.52 x 8.39 x 0.3 = 1.52 cfs
 Length of Apron (L_a) = 6 FT.
 Upstream width (W₁) = 2 FT.
 Downstream width (W₂) = 8 FT.
 Avg. Stone diameter (d_#) = 0.5 FT.
 Stone depth (t) = 0.75 FT.

Minimum tailwater conditions



LEGEND

- Sd2-B BAFFLE BOX INLET PROTECTION
- Sd2-F GRAVEL DROP INLET PROTECTION
- Sd2-P PIG IN BLANKET DROP INLET PROTECTION
- Sd1-S TYPE C SILT FENCE PROTECTION
- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

EROSION CONTROL NOTES

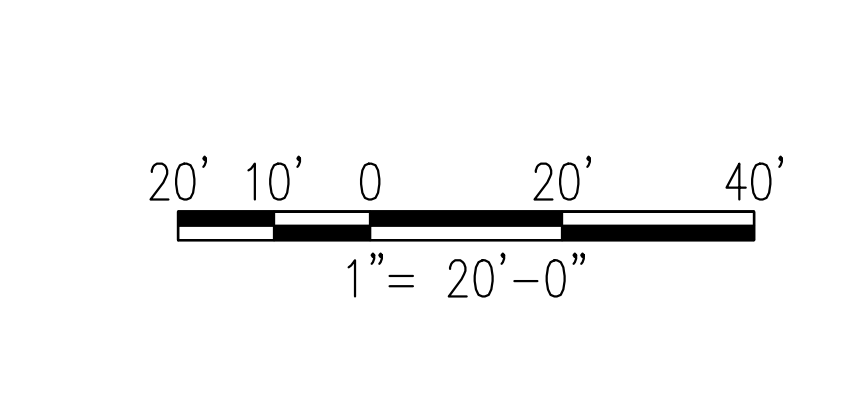
- ALL SILT PROTECTION FENCE TO BE INSTALLED OUTSIDE TRAFFIC LANES.
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GEORGIA

REGISTERED PROFESSIONAL ENGINEER
 MICHAEL B. KULL
 Level II Certification #6924



REVISION DATES

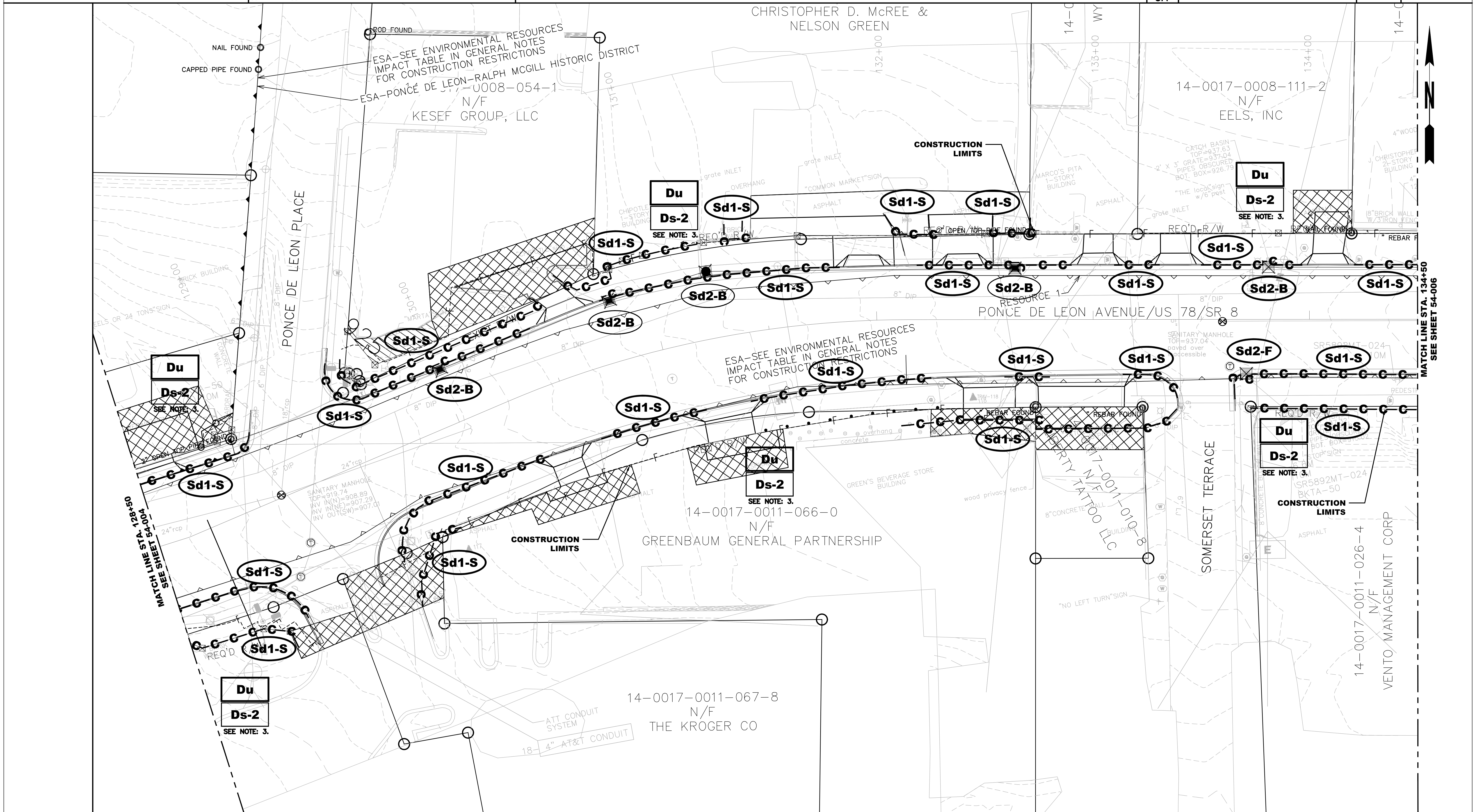
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ATLANTA BELTLINE

OFFICE:

**BMP LOCATION DETAILS
 GRADING PHASE
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION**

DRAWING No. **54-011**



LEGEND

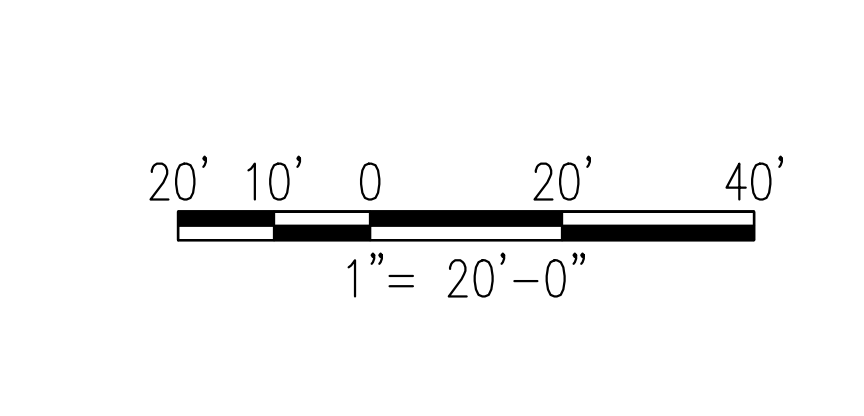
	- Sd2-B Baffle Box Inlet Protection
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	- Sd2-P Pig in Blanket Drop Inlet Protection
	- Sd1-S Type C Silt Fence Protection
	- Double Row of Silt Fence by ESA Boundary Areas

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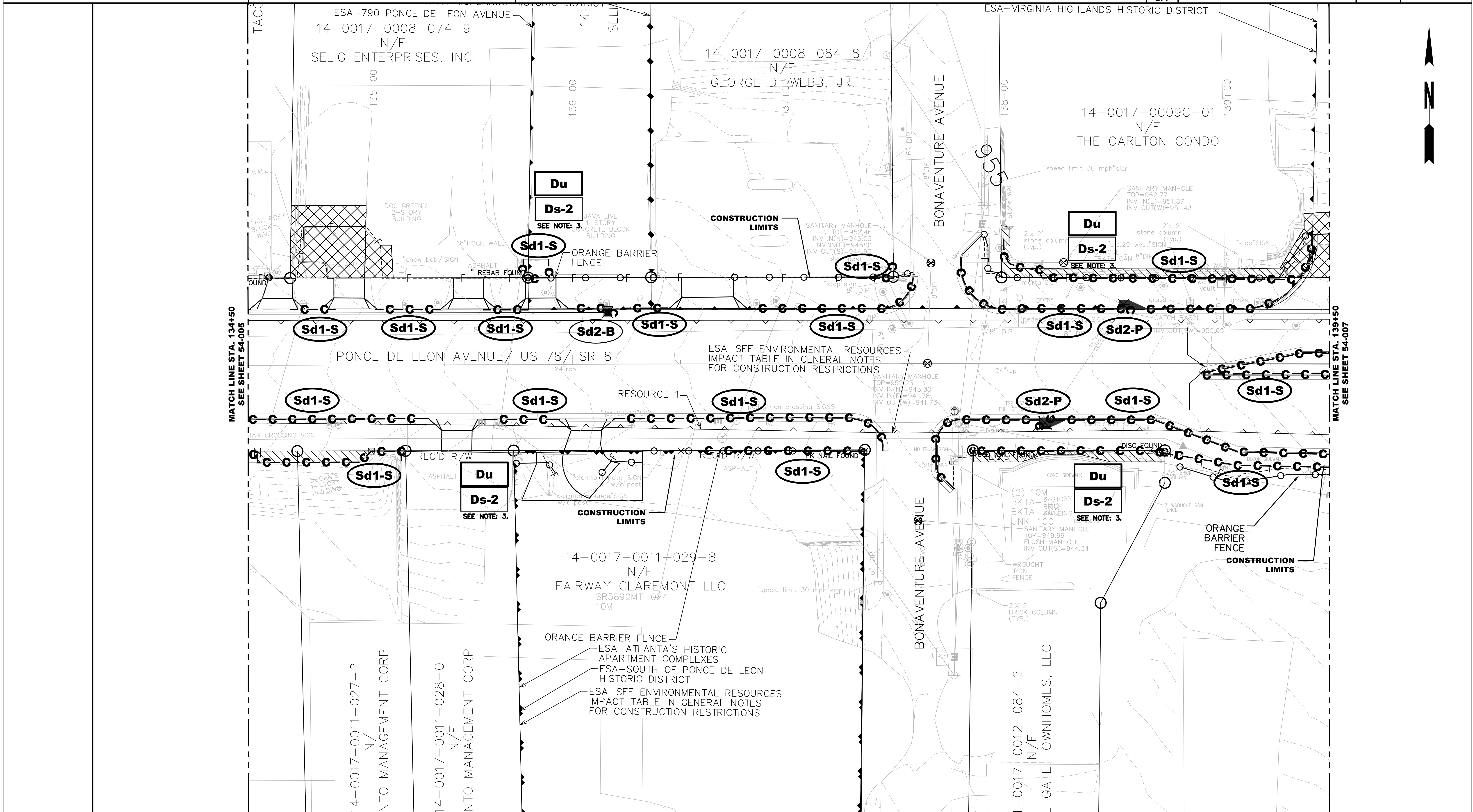


REVISION DATES

No.	Description	Date

ATLANTA BELTLINE
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BMP LOCATION DETAILS
GRADING PHASE
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE CONNECTION

DRAWING No. 54-012



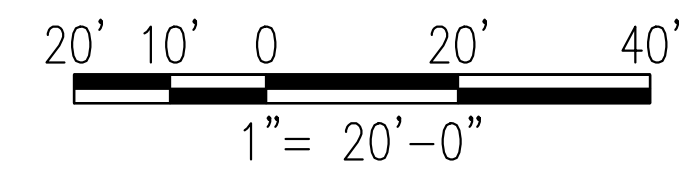
LENGEND

	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd2-P PIG IN BLANKET DROP INLET PROTECTION
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REVISION DATES

NO.	DATE	DESCRIPTION

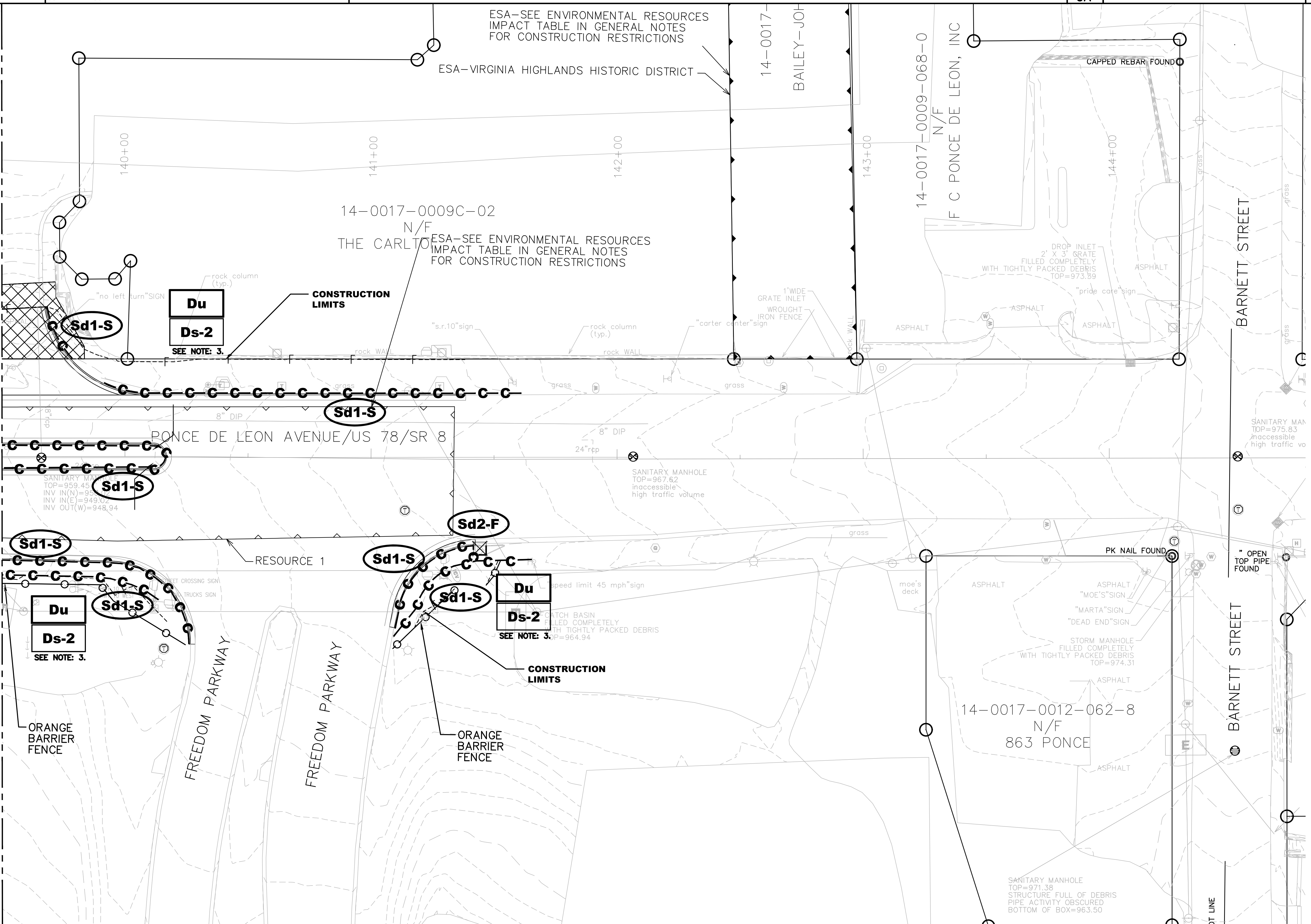
ATLANTA BELTLINE

OFFICE:

**BMP LOCATION DETAILS
 GRADING PHASE**

PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
54-013



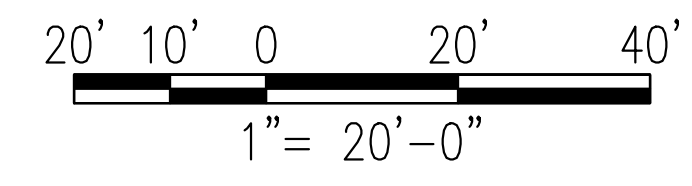
LENGEND

	- Sd2-B Baffle Box Inlet Protection
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	- Double Row of Silt Fence by ESA Boundary Areas

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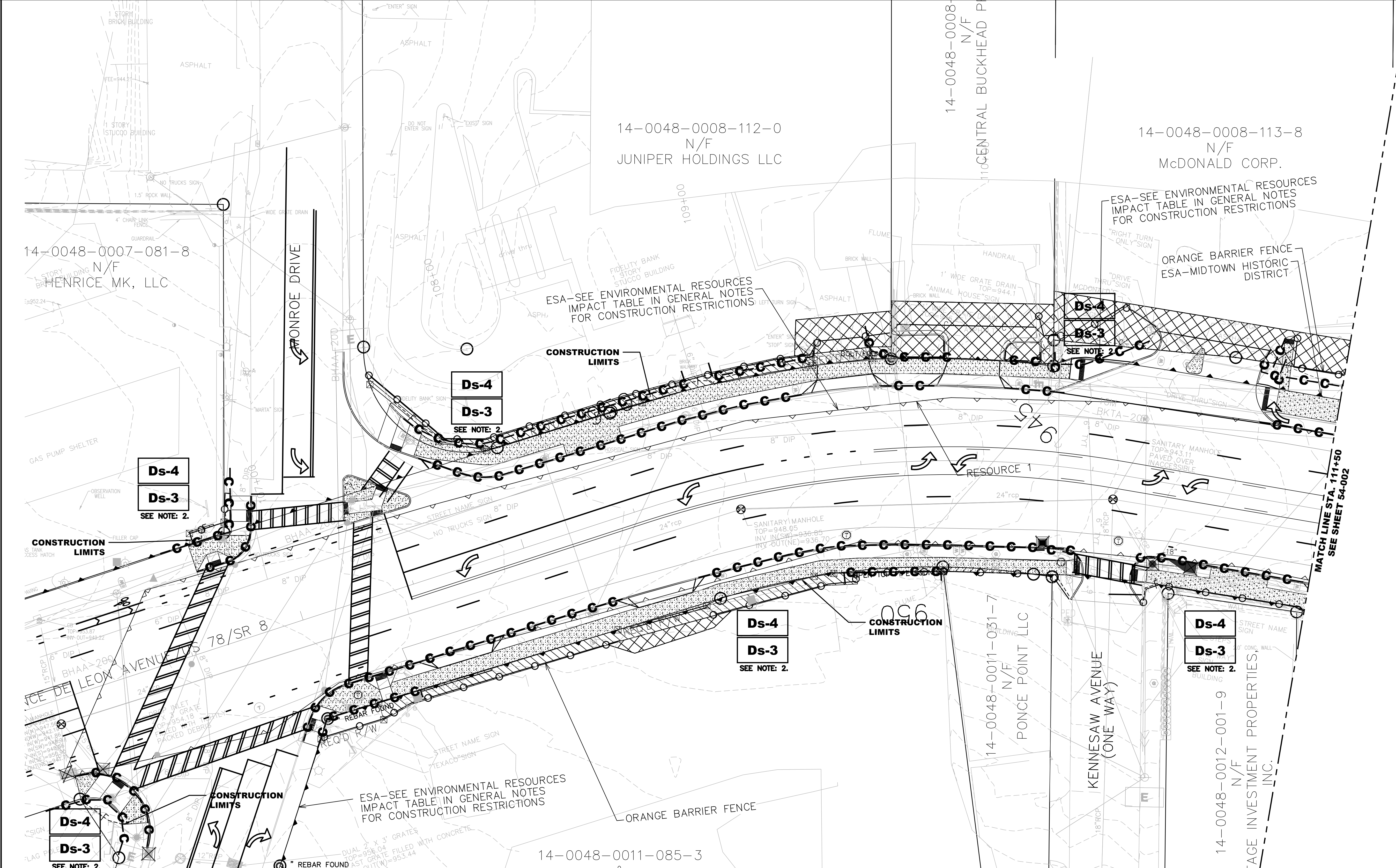
REVISION DATES

ATLANTA BELTLINE

OFFICE:

**BMP LOCATION DETAILS
 GRADING PHASE
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION**

DRAWING No.
54-014

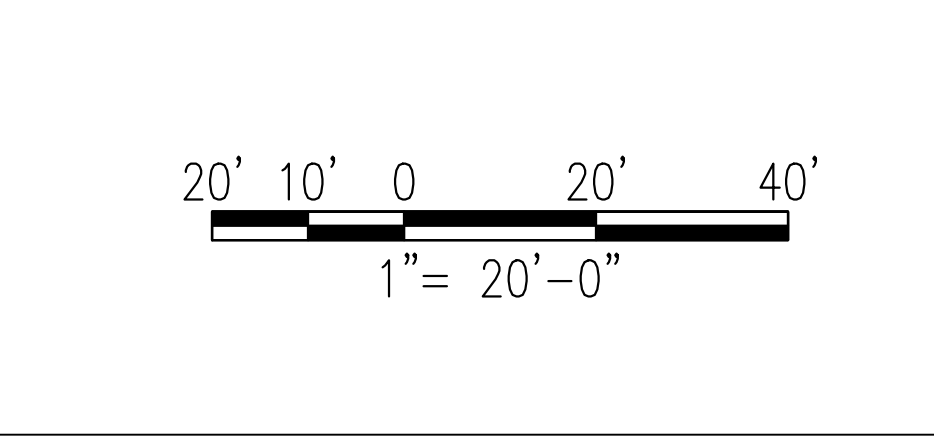


	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd2-P PIG IN BLANKET DROP INLET PROTECTION
	- Sd1-S TYPE C SILT FENCE PROTECTION
	- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

EROSION CONTROL NOTES
 1. ALL SILT PROTECTION FENCES TO BE REMOVED.
 2. STABILIZE ALL DISTURBED AREAS WITH Ds-3 OR Ds-4.

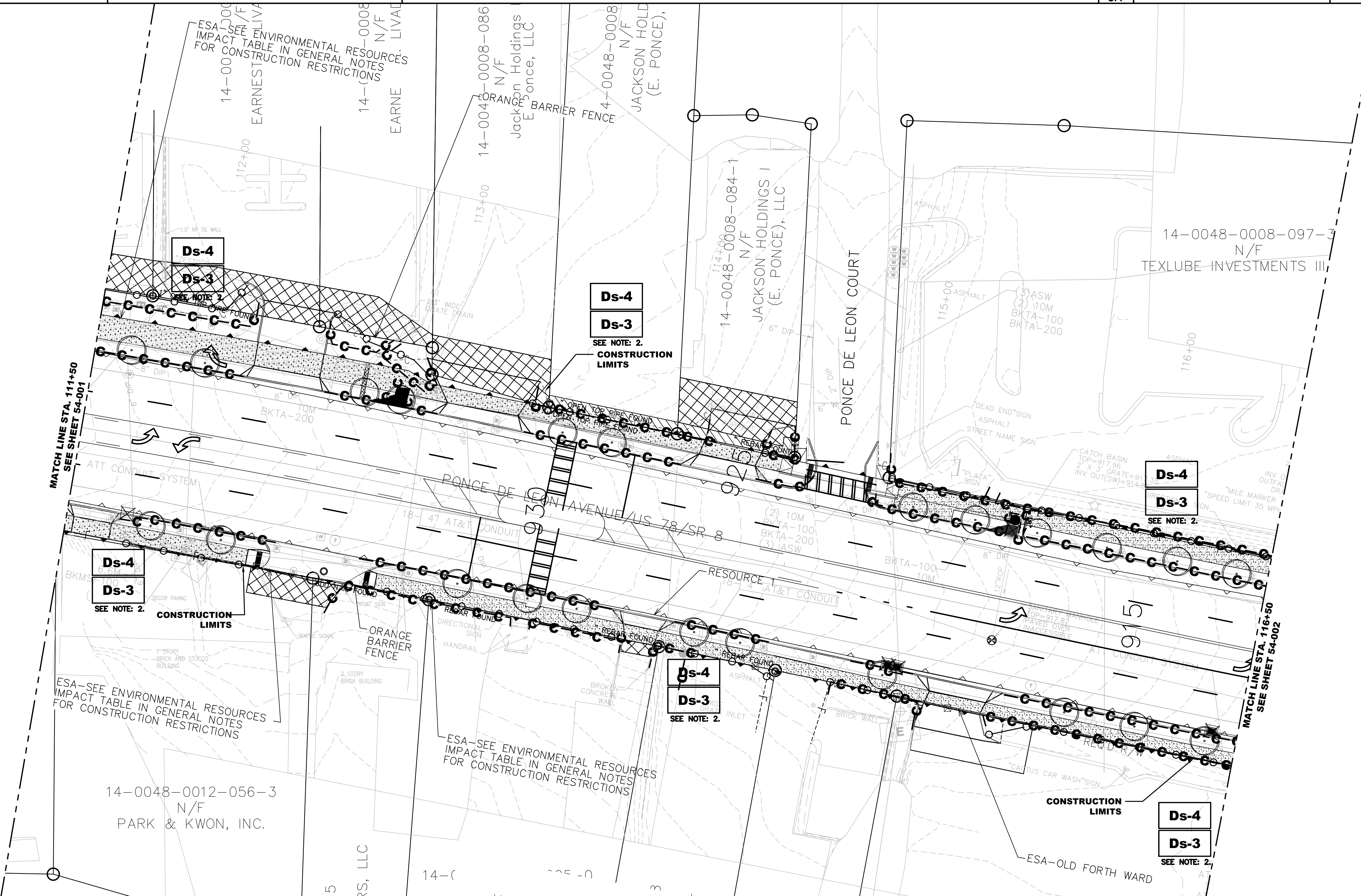
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 ATLANTA, GA 30303
 TEL: (404) 477-3003
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No. 28568
 PROFESSIONAL ENGINEER
 MICHAEL B. KULL
 Level II Certification #6924



REVISION DATES	

ATLANTA BELTLINE
 OFFICE:
**BMP LOCATION DETAILS
 FINAL PHASE**
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION
 DRAWING No.
54-015

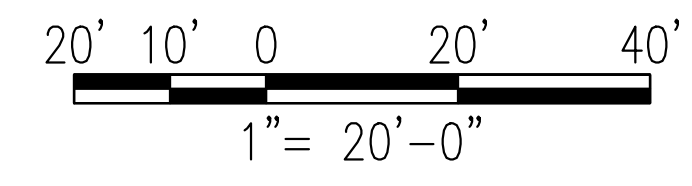


LEGEND

	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd2-P PIG IN BLANKET DROP INLET PROTECTION
	- Sd1-S TYPE C SILT FENCE PROTECTION
	- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

EROSION CONTROL NOTES
 1. ALL SILT PROTECTION FENCES TO BE REMOVED.
 2. STABILIZE ALL DISTURBED AREAS WITH Ds-3 OR Ds-4.

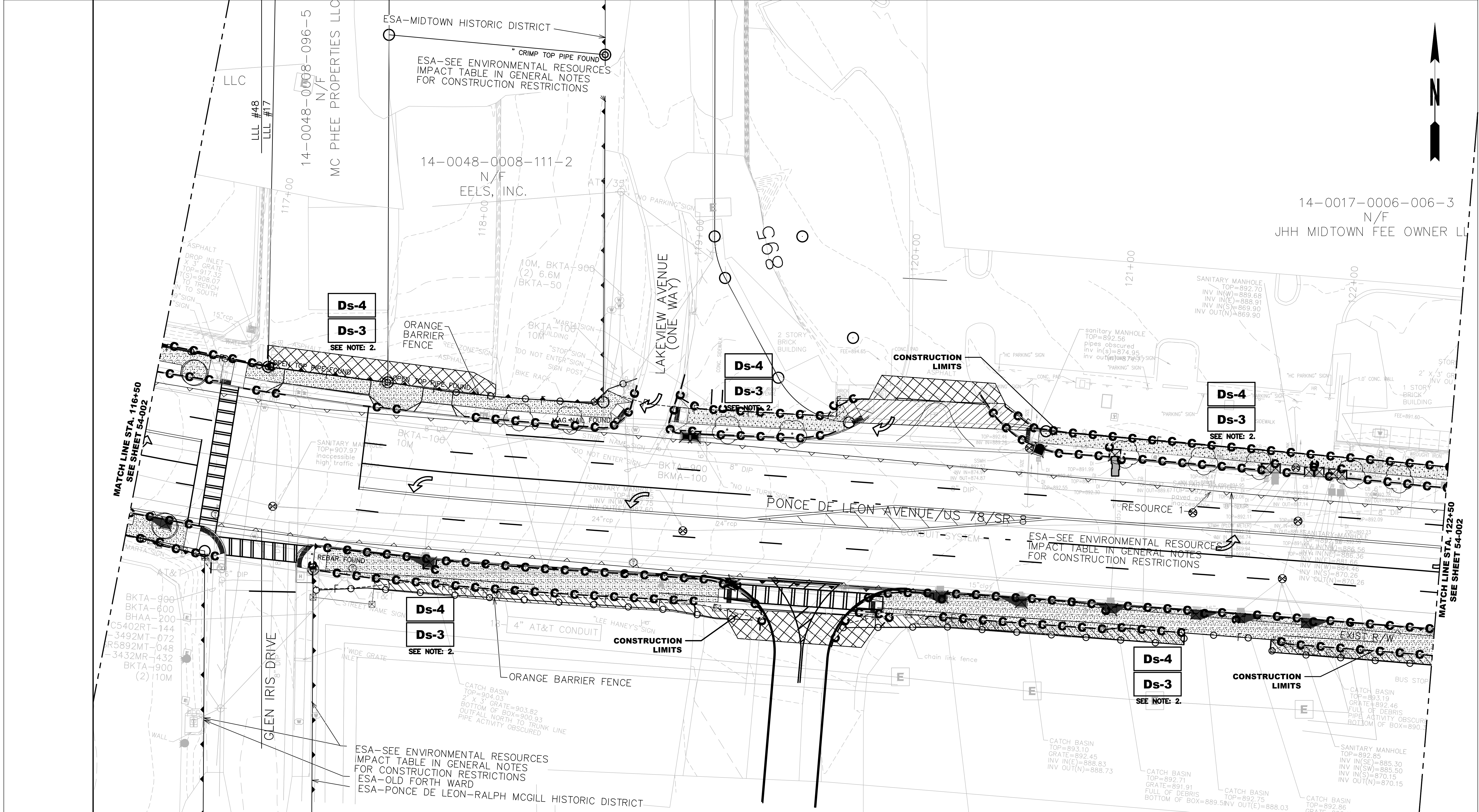
Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET NW
 SUITE 2300
 ATLANTA, GA 30303
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REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE
 OFFICE:
 BMP LOCATION DETAILS
 FINAL PHASE
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION
 DRAWING No.
 54-016



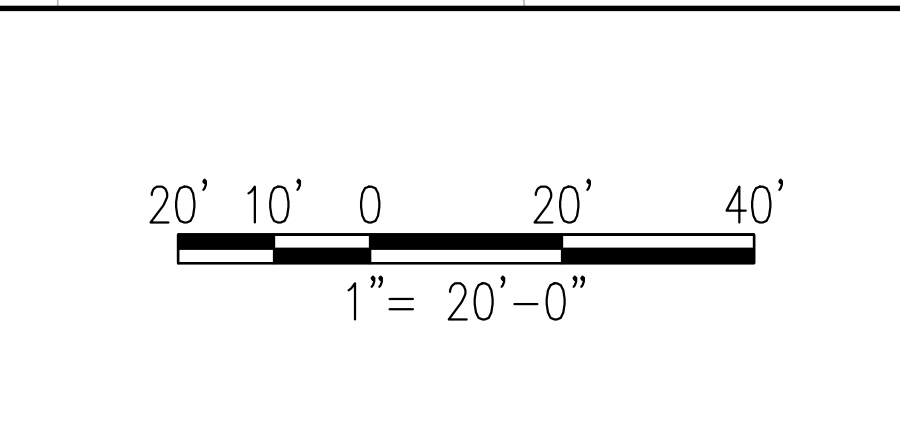
LEGEND

	- Sd2-B Baffle Box Inlet Protection
	- Sd2-F Gravel Drop Inlet Protection
	- Sd2-P Pig in Blanket Drop Inlet Protection
	- Sd1-S Type C Silt Fence Protection
	- Double Row of Silt Fence by ESA Boundary Areas

EROSION CONTROL NOTES

1. ALL SILT PROTECTION FENCES TO BE REMOVED.
2. STABILIZE ALL DISTURBED AREAS WITH Ds-3 OR Ds-4.

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REVISION DATES

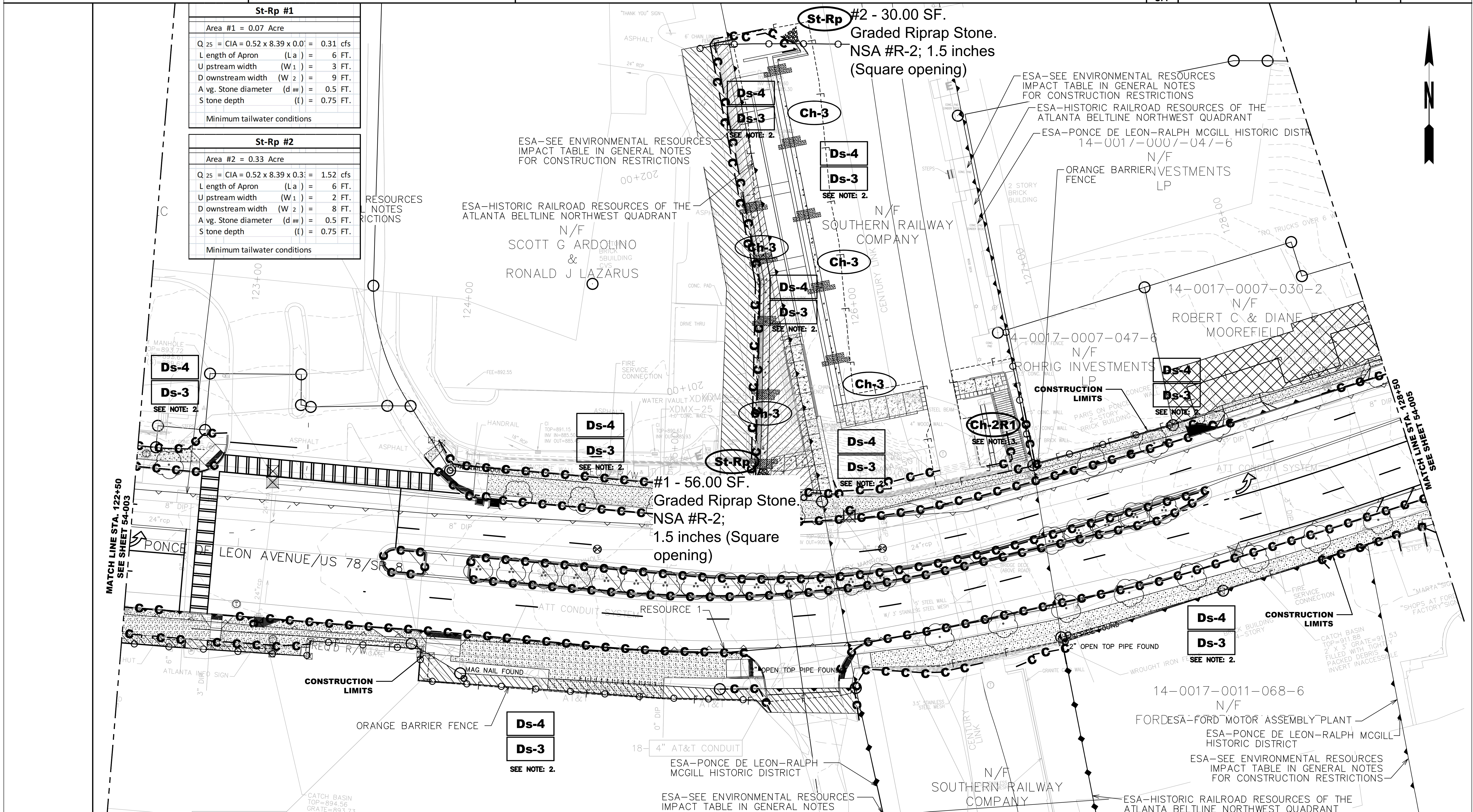
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**BMP LOCATION DETAILS
 FINAL PHASE**
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
54-017

St-Rp #1	
Area #1 = 0.07 Acre	
Q ₂₅ = CIA = 0.52 x 8.39 x 0.0:	= 0.31 cfs
Length of Apron (L _a)	= 6 FT.
Upstream width (W ₁)	= 3 FT.
Downstream width (W ₂)	= 9 FT.
Avg. Stone diameter (d _#)	= 0.5 FT.
Stone depth (t)	= 0.75 FT.
Minimum tailwater conditions	

St-Rp #2	
Area #2 = 0.33 Acre	
Q ₂₅ = CIA = 0.52 x 8.39 x 0.3:	= 1.52 cfs
Length of Apron (L _a)	= 6 FT.
Upstream width (W ₁)	= 2 FT.
Downstream width (W ₂)	= 8 FT.
Avg. Stone diameter (d _#)	= 0.5 FT.
Stone depth (t)	= 0.75 FT.
Minimum tailwater conditions	



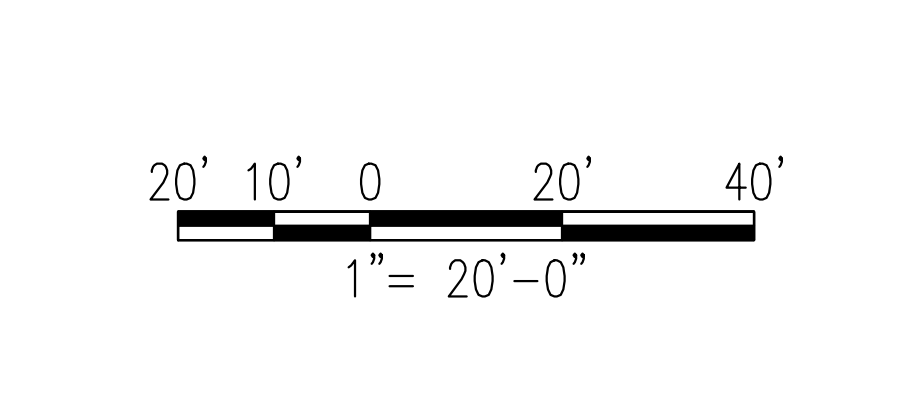
LEGEND	
	- Sd2-B Baffle Box Inlet Protection
	- Sd2-F Gravel Drop Inlet Protection
	- Sd2-P Pig in Blanket Drop Inlet Protection
	- Sd1-S Type C Silt Fence Protection
	- Double Row of Silt Fence by ESA Boundary Areas

EROSION CONTROL NOTES

1. ALL SILT PROTECTION FENCES TO BE REMOVED.
2. STABILIZE ALL DISTURBED AREAS WITH Ds-3 OR Ds-4.
3. THIS AREA TO BE STABILIZED WITH GEOTEXTILE UNDERLINER AND RIP-RAP.

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REGISTERED PROFESSIONAL ENGINEER
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 State of Georgia
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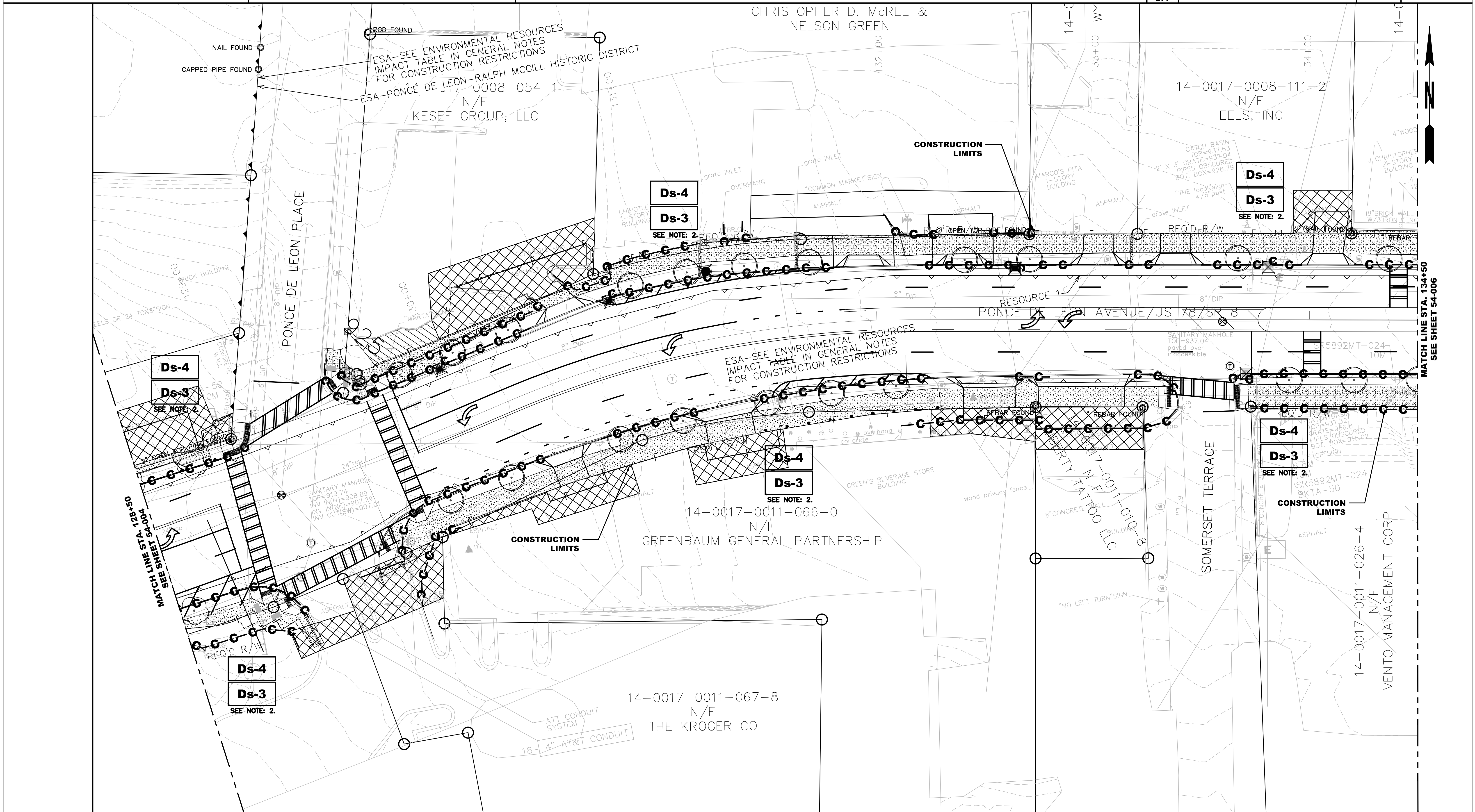


REVISION DATES	

ATLANTA BELTLINE

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 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
54-018

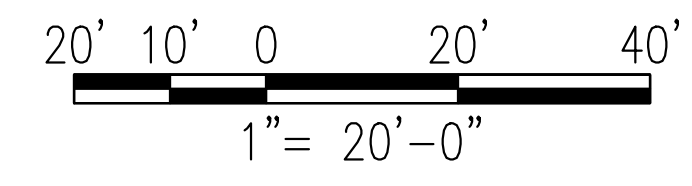


LEGEND

	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd2-P PIG IN BLANKET DROP INLET PROTECTION
	- Sd1-S TYPE C SILT FENCE PROTECTION
	- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

EROSION CONTROL NOTES
 1. ALL SILT PROTECTION FENCES TO BE REMOVED.
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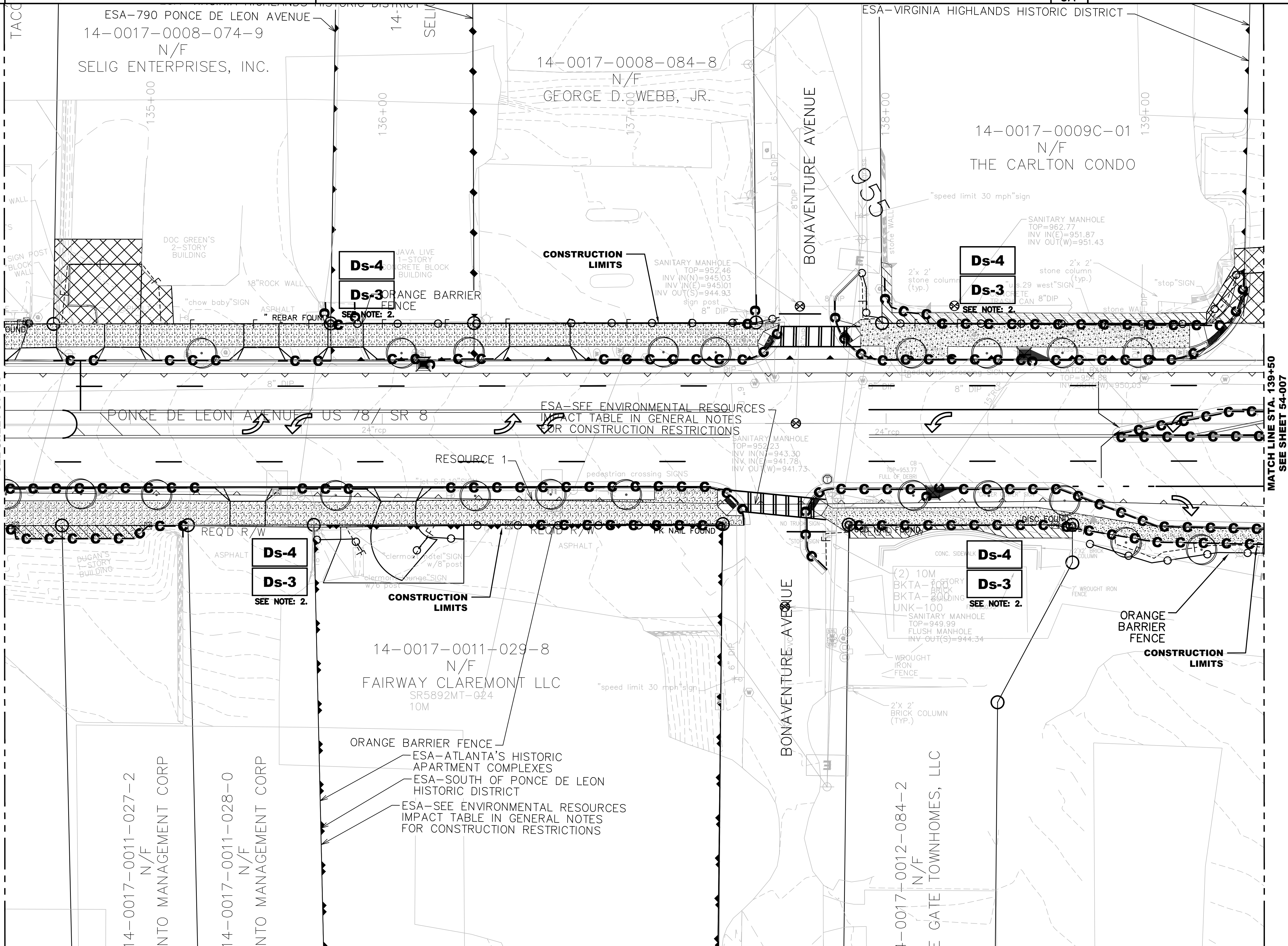


REVISION DATES	

ATLANTA BELTLINE

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 FINAL PHASE**
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
54-019



MATCH LINE STA. 134+50
SEE SHEET 54-005

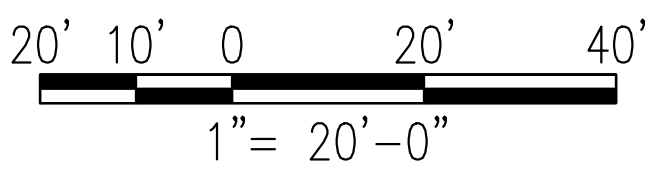
MATCH LINE STA. 139+50
SEE SHEET 54-007

LEGEND

	- Sd2-B BAFFLE BOX INLET PROTECTION
	- Sd2-F GRAVEL DROP INLET PROTECTION
	- Sd2-P PIG IN BLANKET DROP INLET PROTECTION
	- Sd1-S TYPE C SILT FENCE PROTECTION
	- DOUBLE ROW OF SILT FENCE BY ESA BOUNDARY AREAS

EROSION CONTROL NOTES
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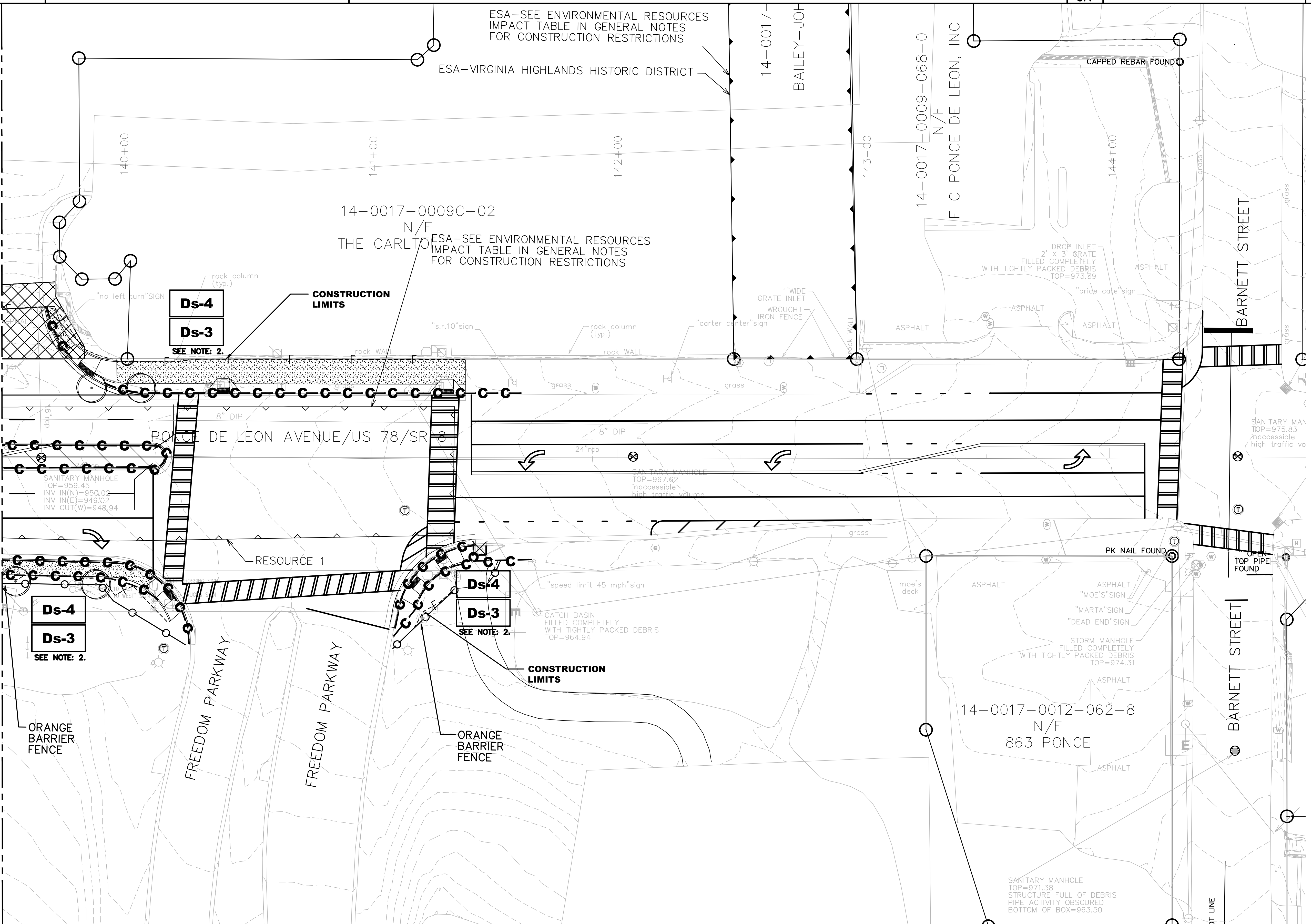


REVISION DATES	

ATLANTA BELTLINE

OFFICE:
**BMP LOCATION DETAILS
 FINAL PHASE**
 PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
54-020



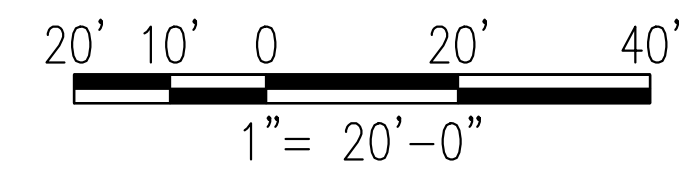
LEGEND

	- Sd2-B Baffle Box Inlet Protection
	- Sd2-F Gravel Drop Inlet Protection
	- Sd2-P Pig in Blanket Drop Inlet Protection
	- Sd1-S Type C Silt Fence Protection
	- Double Row of Silt Fence by ESA Boundary Areas

EROSION CONTROL NOTES
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Level II Certification #6924



REVISION DATES

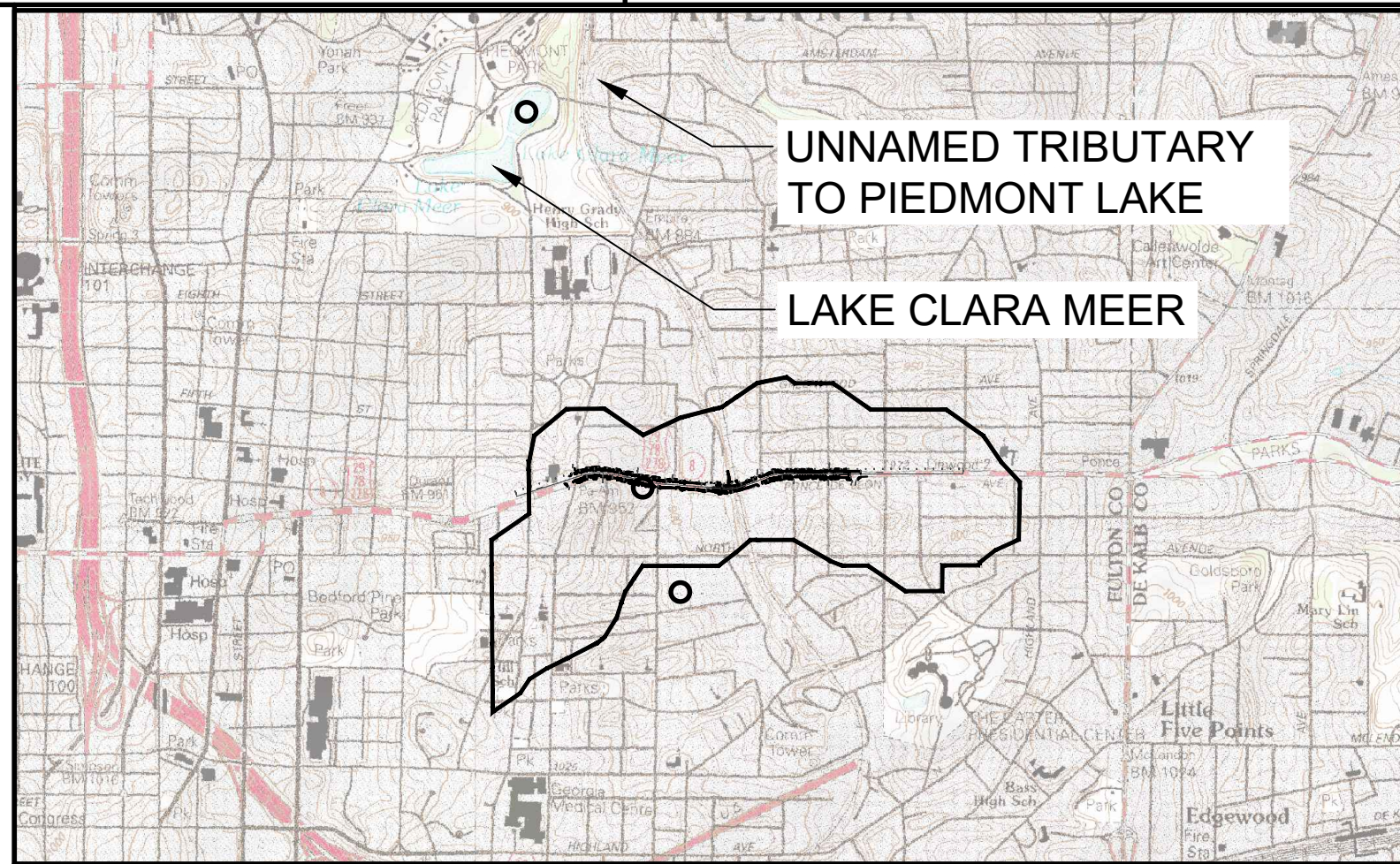
ATLANTA BELTLINE

OFFICE:

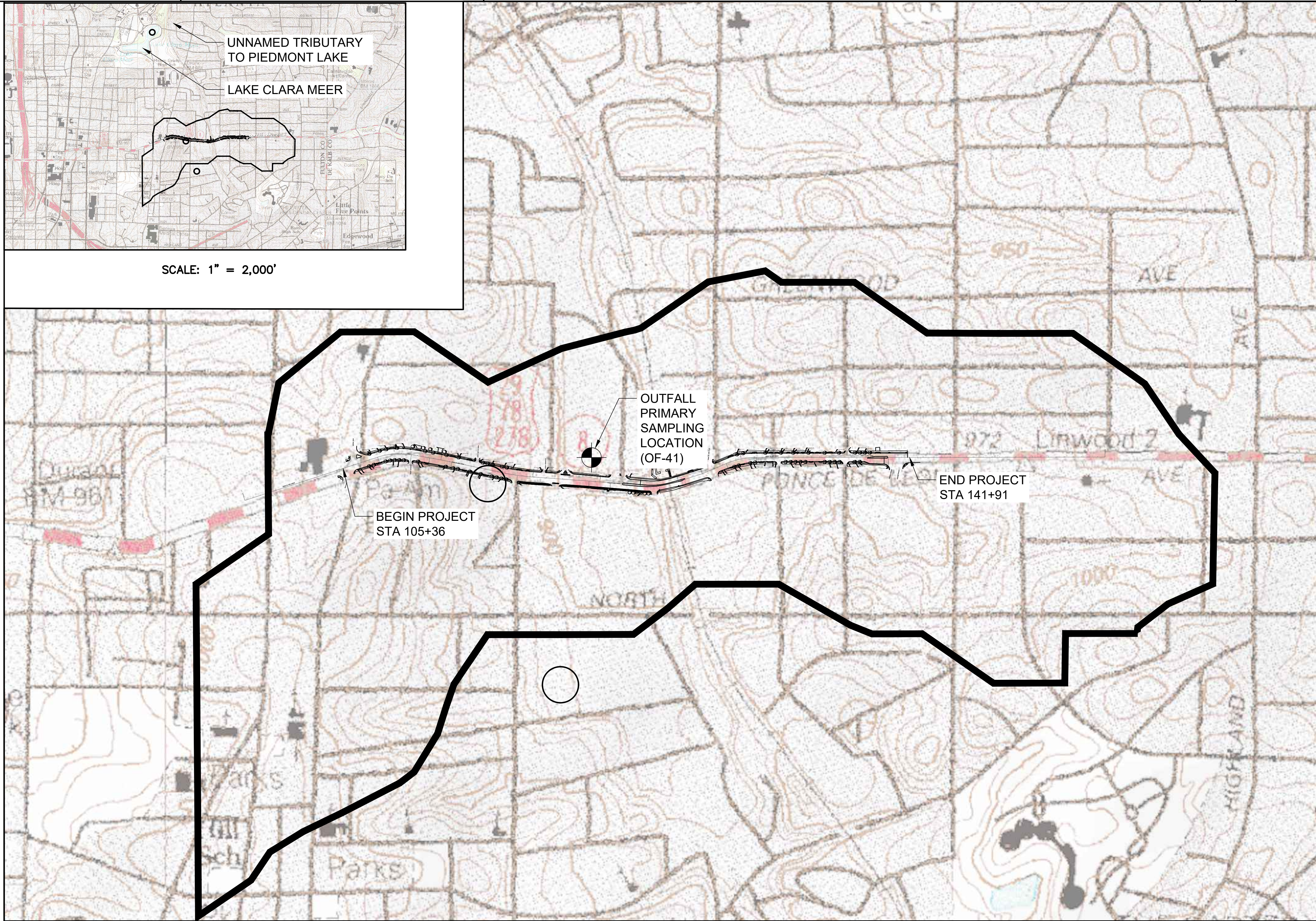
**BMP LOCATION DETAILS
FINAL PHASE**

PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

DRAWING No.
54-021



SCALE: 1" = 2,000'

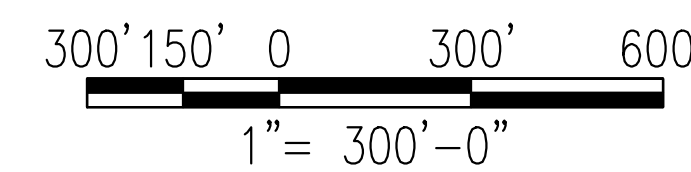


TOTAL DRAINAGE AREA
0.44 SQ. MILES

WATERSHED / SAMPLING
CHART



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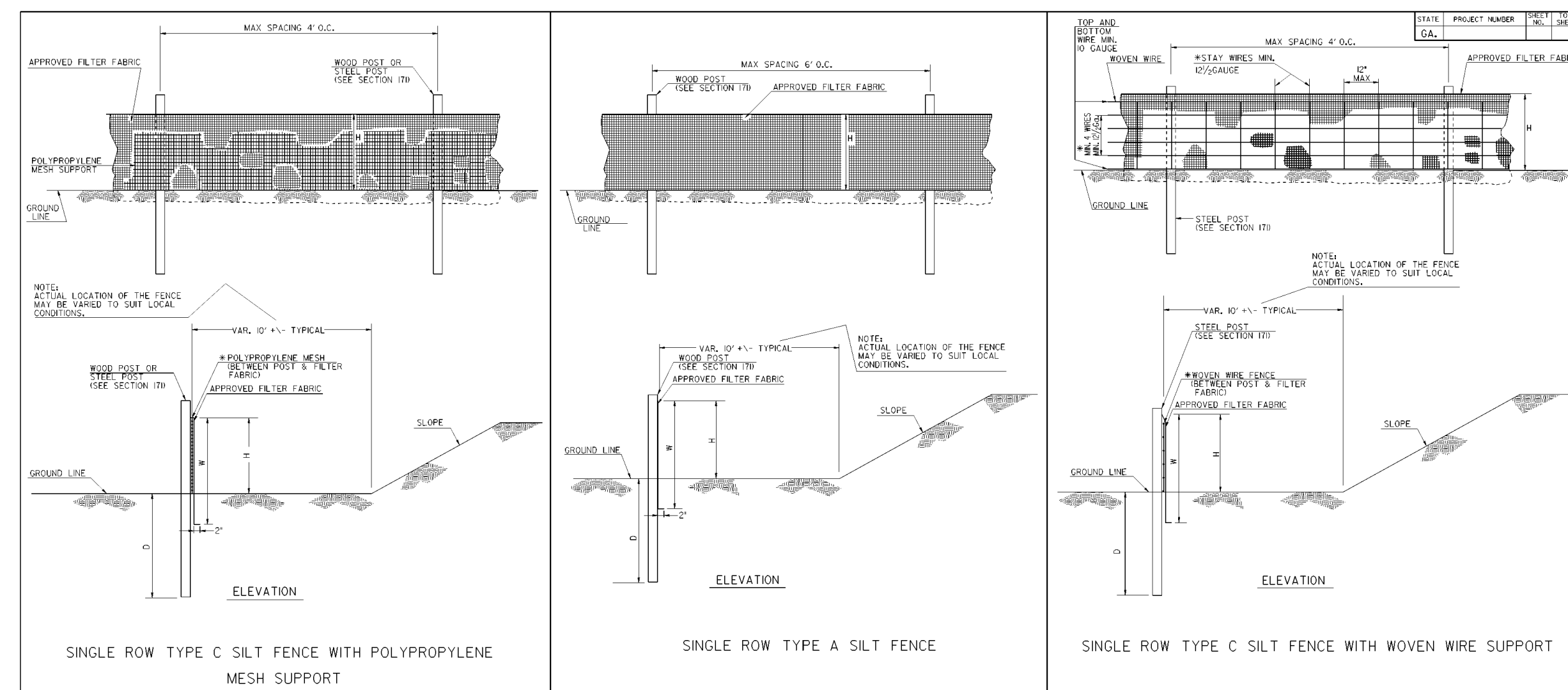
REVISION DATES

ATLANTA BELTLINE

OFFICE:

**WATERSHED MAP & SITE
MONITORING LOCATION**
PONCE DE LEON AVENUE COMPLETE
STREET RETROFIT AND BELTLINE
CONNECTION

DRAWING No.
55-001



FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-4"	3'-0"	STANDARD USE FOR CONSTRUCTION SITES WITH SOFT SOILS AND/OR SLOPES. SEE SPECIFICATIONS FOR MATERIALS AND FABRIC CHECKS AND SEE D-240.
TYPE "C"	4 FT.	2'-4"	1'-4"	3'-0"	

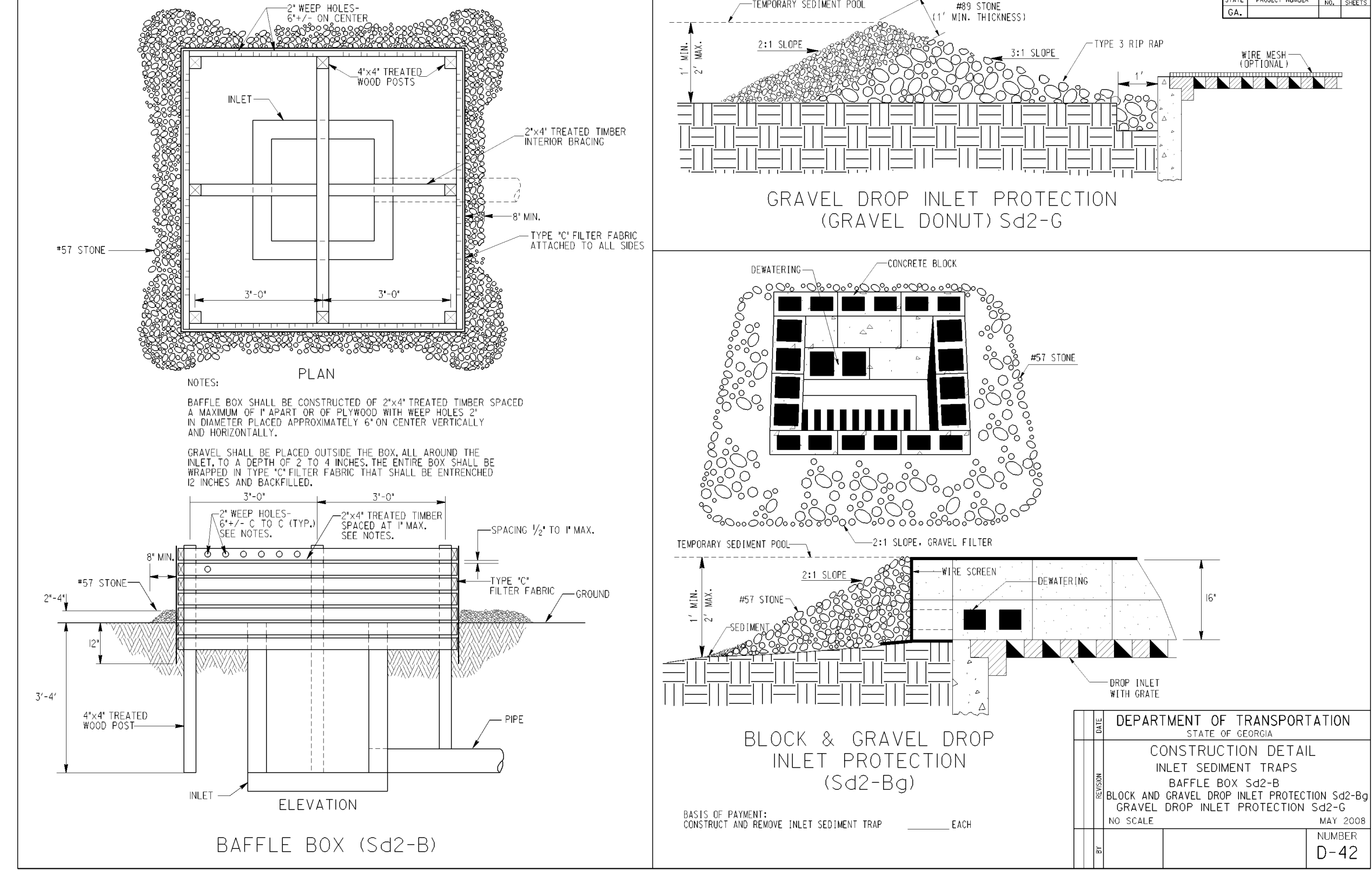
- NOTES:**
- WIRE STAPLES SHALL BE AT LEAST 1/4" GAUGE WITH LEGS AT LEAST 1/8" LONG AND A CROWN AT LEAST 3/16" WIDE. STAPLES SHALL BE AT LEAST 1/4" LONG AND 1/4" WIDE. STAPLES SHALL BE AT LEAST 1/4" LONG AND 1/4" WIDE.
 - WIRE STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
 - THE VERTICAL WIRE FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12" BETWEEN THE TOP AND BOTTOM WIRE. WIRE SHALL BE AT LEAST 1/4" GAUGE AND ALL OTHER WIRE SHALL BE AT LEAST 1/8" GAUGE.
 - TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
 - SEE SECTION 814 FOR SILT FENCE SPECIFICATIONS.
 - SEE SECTION 814 FOR FENCING SPECIFICATIONS.
 - SEE OPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
 - TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DEPARTMENT OF TRANSPORTATION
STATE OF CALIFORNIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE

NO SCALE REV. AND RESEARCH JAN. 2011

NUMBER
D-24A
SHEET 1 OF 4



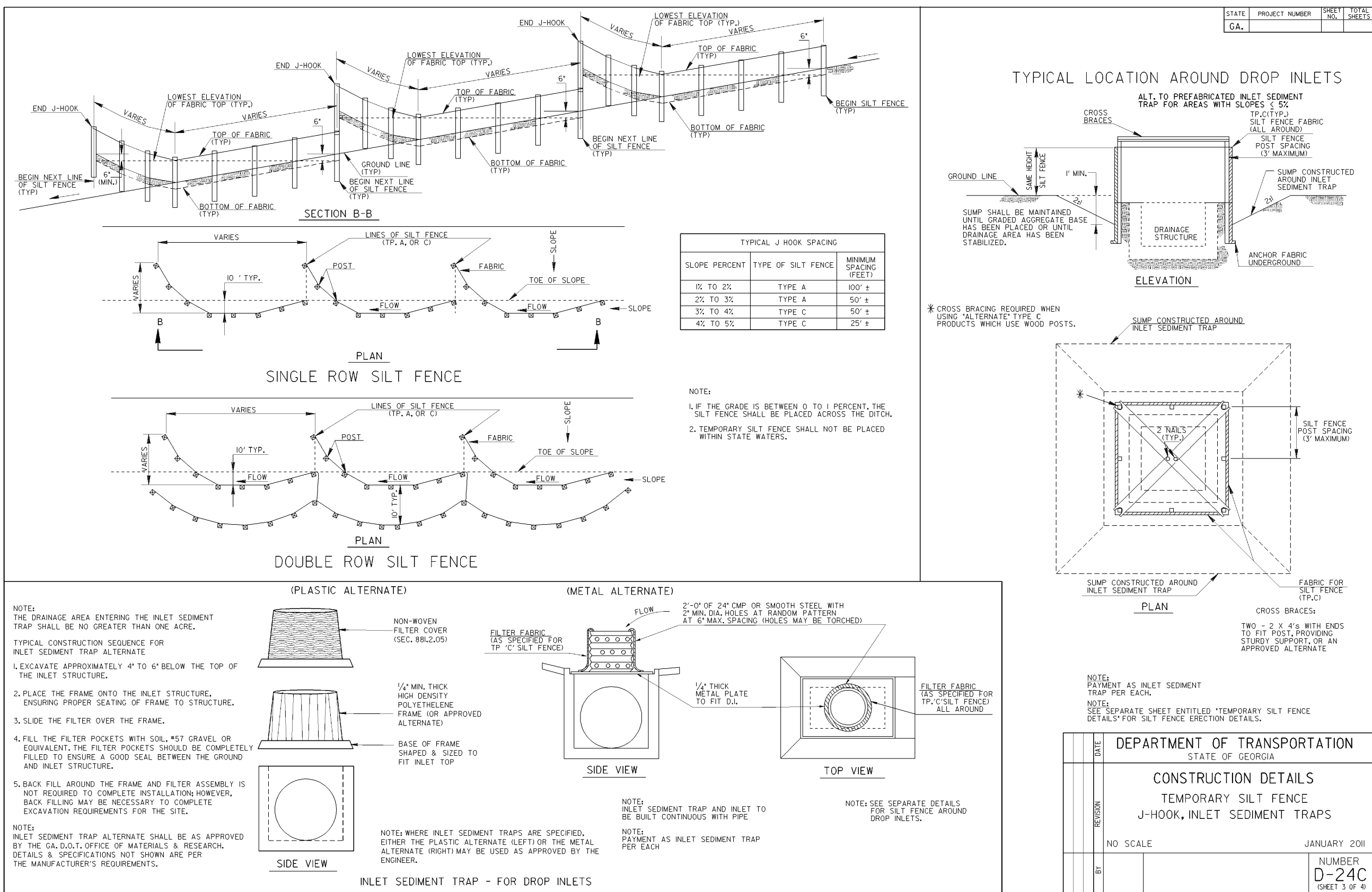
- NOTES:**
- BAFFLE BOX SHALL BE CONSTRUCTED OF 2"x4" TREATED TIMBER SPACED A MAXIMUM OF 7" APART OR OF PLYWOOD WITH WEEP HOLES 2" IN DIAMETER PLACED APPROXIMATELY 6" ON CENTER VERTICALLY AND HORIZONTALLY.
 - GRAVEL SHALL BE PLACED OUTSIDE THE BOX ALL AROUND THE INLET TO A DEPTH OF 2" TO 4" MINIMUM. THE ENTIRE BOX SHALL BE WRAPPED IN TYPE "C" FILTER FABRIC THAT SHALL BE ENTRENCHED 12" INCHES AND BACKFILLED.

DEPARTMENT OF TRANSPORTATION
STATE OF CALIFORNIA

CONSTRUCTION DETAIL
INLET SEDIMENT TRAPS

NO SCALE

NUMBER
D-42



DEPARTMENT OF TRANSPORTATION
STATE OF CALIFORNIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
J-HOOK, INLET SEDIMENT TRAPS

NO SCALE

JANUARY 2011

NUMBER
D-24C
SHEET 2 OF 4

Dust Control on Disturbed Areas



DEFINITION
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE
-To prevent surface and air movement of dust from exposed soil surfaces.
-To reduce the presence of airborne substances which may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification Tac - Tackifiers. Resins such as Curasol or Teraclack should be used according to manufacturer's recommendations.

Vegetative Cover. See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

Tillage. This practice is designed to loosen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification Ds3 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

Topsolling. This entails covering the surface with less erosive soil material. See specification Tp - Topsolling.

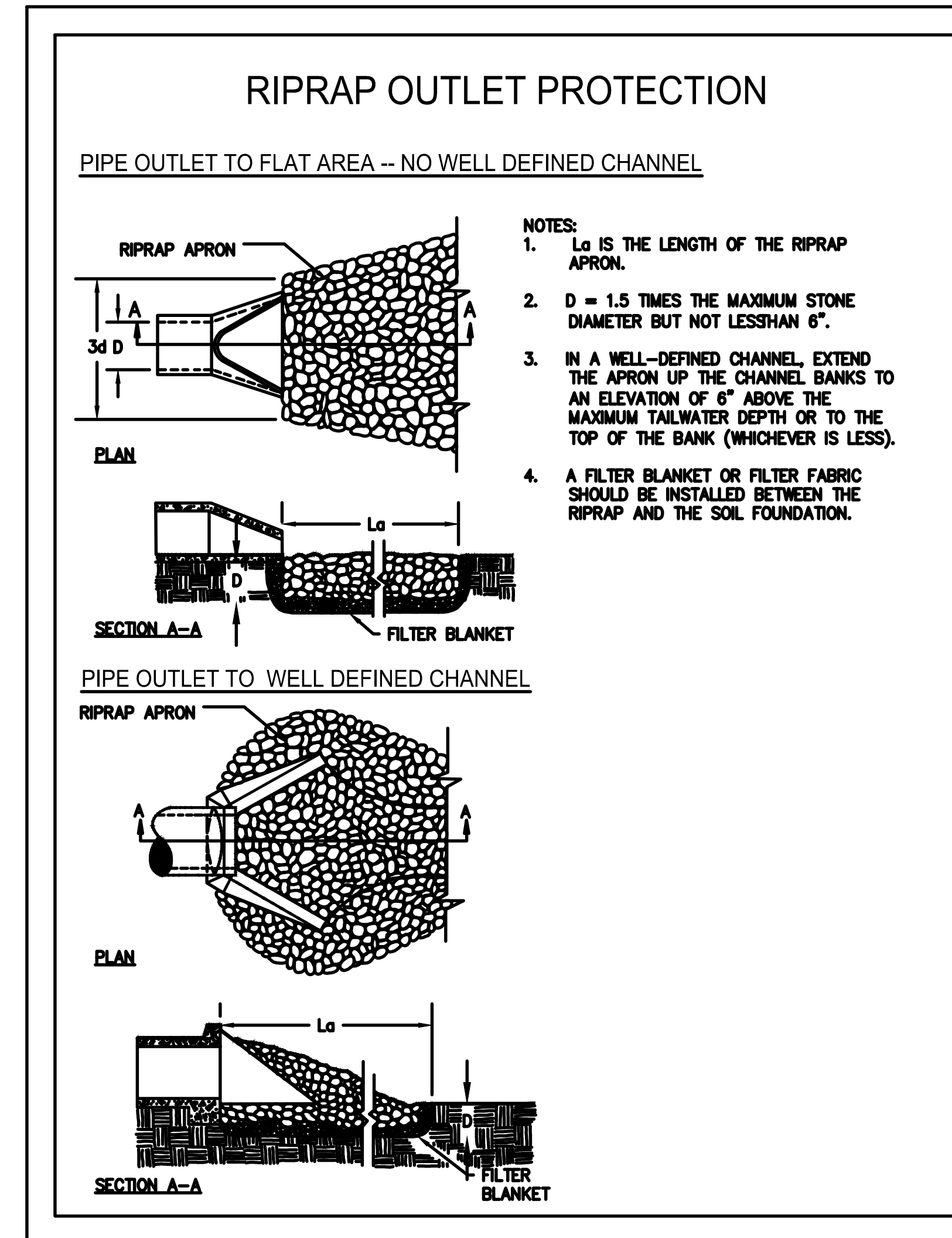
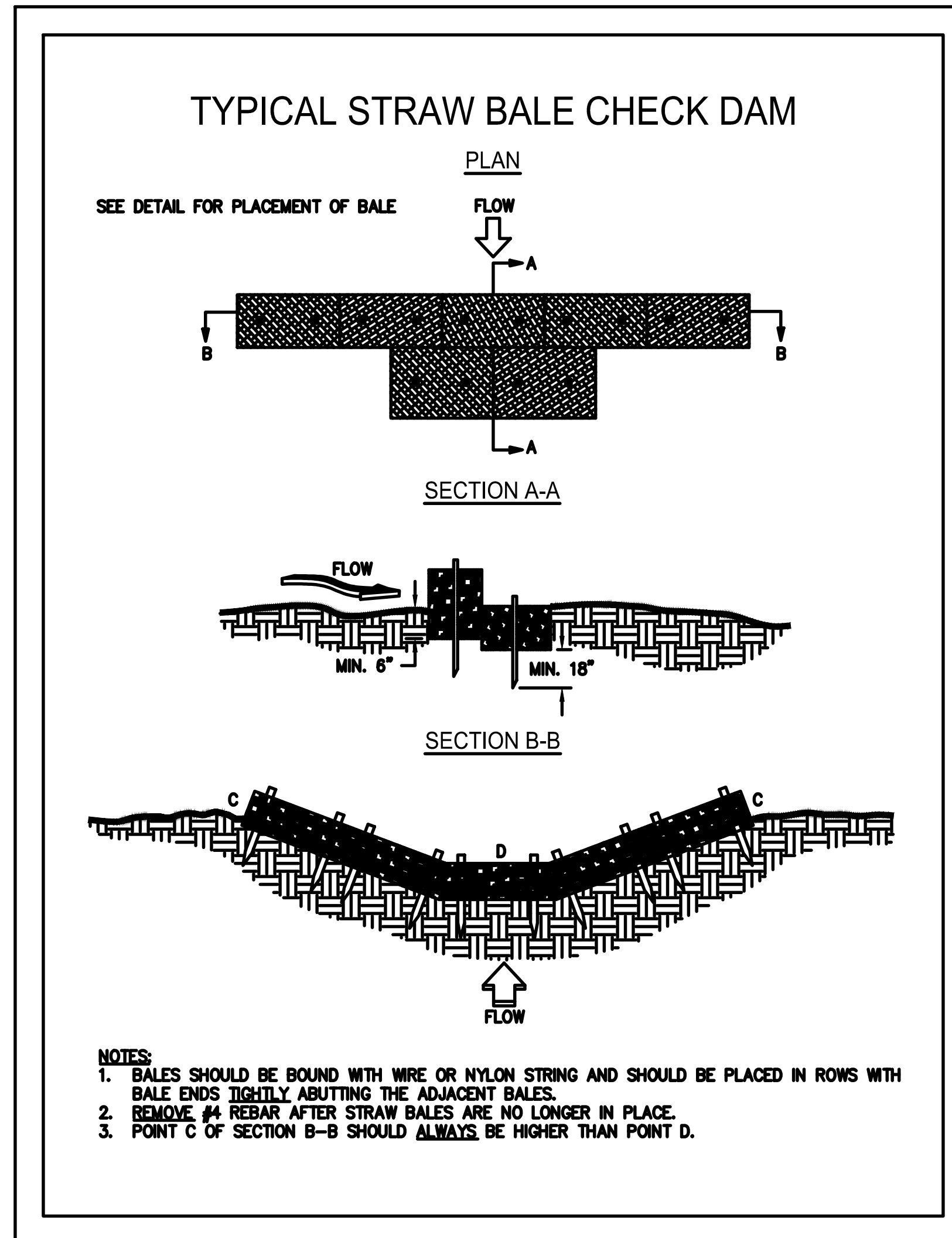
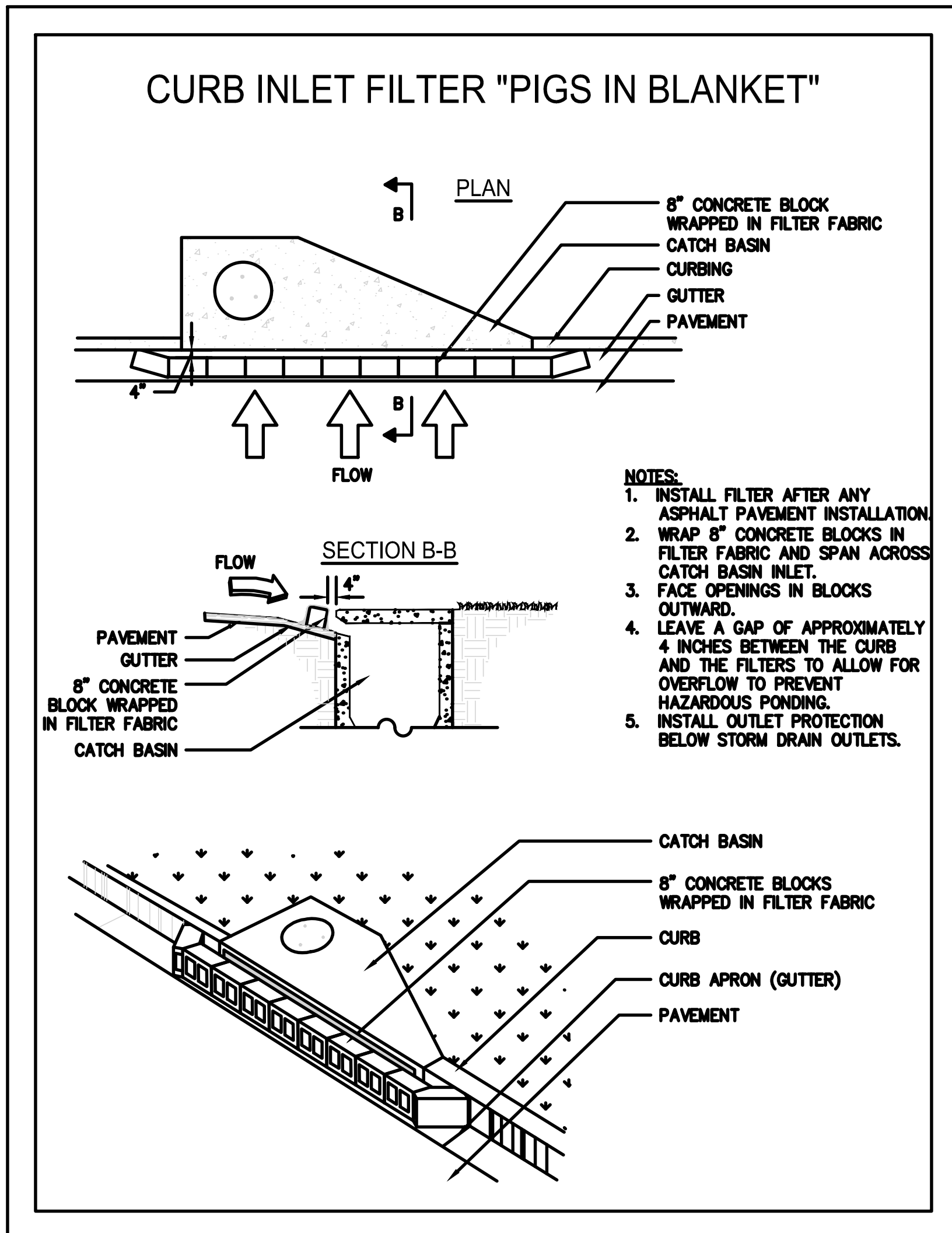
Stone. Cover surface with crushed stone or coarse gravel. See specification Cr-Construction Road Stabilization.

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL B. KULL
No. 28568
Level II Certification #6924

REVISION DATES				
ATLANTA BELTLINE				
OFFICE: CONSTRUCTION STANDARDS & DETAILS				
PONCE DE LEON AVENUE COMPLETE STREET RETROFIT AND BELTLINE CONNECTION				
				DRAWING No. 56-001



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REVISION DATES		

ATLANTA BELTLINE

OFFICE:
 CONSTRUCTION STANDARDS & DETAILS

PONCE DE LEON AVENUE COMPLETE
 STREET RETROFIT AND BELTLINE
 CONNECTION

DRAWING No.
 56-002