DATETIME$$$
$USER$
PRF
$$PENTABLE$$
DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSSTP-0006-00(261)		

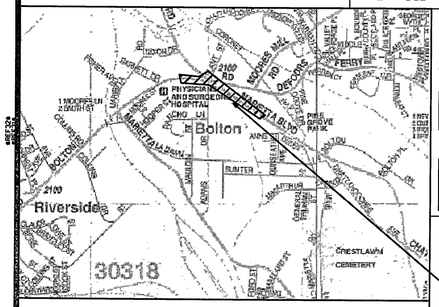
DEPARTMENT OF TRANSPORTATION
CITY OF ATLANTA

PLAN AND PROFILE OF PROPOSED
MARIETTA BLVD
AT BOLTON ROAD INTERSECTION

PROJECT NUMBER: CSSTP-0006-00(261)

STATE AID PROJECT

Georgia D.O.T. P.I. No. 0006261
FEDERAL ROUTE No. N/A
STATE ROUTE No. N/A



LOCATION SKETCH

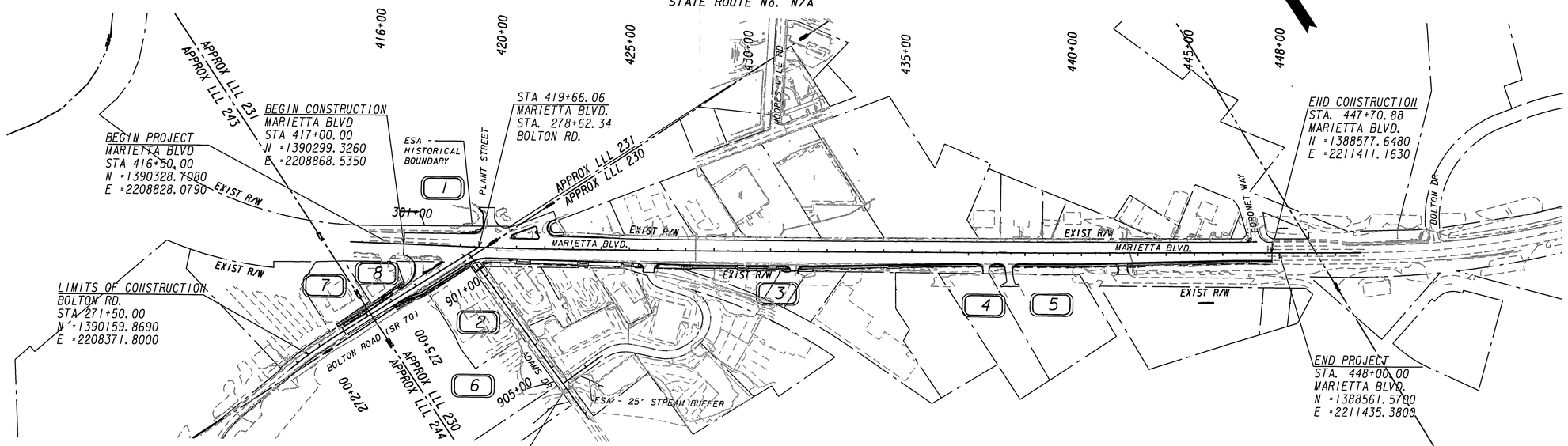
NOTE: THE CO-ORDINATES LISTED ARE WEST ZONE GRID CO-ORDINATES BASED ON THE GA. STATE PLANE CO-ORDINATE SYSTEM OF .
HORIZONTAL DATUM : NAD83
VERTICAL DATUM : NAVD88

MIDPOINT COORDINATE
STATION 426+04.70
N 1389780.8916
E 2209609.8498

CONVENTIONAL SIGNS

STATE OR COUNTY LINE
CITY LIMIT LINE
LAND LOT LINE
PROPERTY LINE
SURVEY OR BASE LINE
RIGHT OF WAY LINE
- EXISTING
- REQUIRED
- LIMIT OF ACCESS
- R/W & LIMIT OF ACCESS
- R/W MARKERS

FENCE
RAILROAD
POWER LINE
TELEPHONE LINE
POWER POLES
TELEPHONE OR TELEGRAPH POLES
CONSTRUCTION LIMITS -- CUT
CONSTRUCTION LIMITS -- FILL



LIMITS OF CONSTRUCTION
ADAMS RD.
STA 905+88.72
N =1389556.1110
E =2209066.7970

THIS PROJECT IS LOCATED 100% IN FULTON COUNTY AND CONGRESSIONAL DISTRICT 5 .

PROJECT DESIGNATION : EXEMPT
PDP CLASSIFICATION : MINOR PROJECT
FUNCTIONAL CLASSIFICATION : URBAN ARTERIAL

NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS DRAWINGS, OF 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 MEAN, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY 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 THE BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

ALL WORK TO BE CONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION OF GEORGIA, CURRENT EDITION. AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

SCALE IN FEET
0 200 400 800

	MARIETTA BLVD.	BOLTON RD.
DESIGN DATA:		
TRAFFIC A.D.T. (2010):	(19,465)	(9,548)
TRAFFIC A.D.T. (2030):	(27,374)	(16,285)
24 hr TRUCKS%:	15.44%	15.44%
SPEED DESIGN:	45 MPH	35 MPH

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LENGTH OF PROJECT	COUNTY NO. 121 Fulton
	MILES
NET LENGTH OF ROADWAY	0.597
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.597
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.597

GEORGIA REGISTERED No. 025419 PROFESSIONAL ENGINEER RONALD W. OSTERLOH 03/10/10

LOCATION AND DESIGN APPROVAL DATE: 02/02/2007

PLANS COMPLETED DATE: 03/10/2010

REVISION DATES:

COVERS

SHEET NO.	DWG NO.	DESCRIPTION
.		INDEX
.1	1-01	Cover
2	2-01	Index
3	3-01	Revision Summary
4	4-01	General Notes
5-6	5-01 to 5-02	Typical Sections
7-11	6-01 to 6-05	Summary of Quantities
.12	9-01	Detailed Estimate
.13	11-01	Construction Layout
.14-21	13-01 to 13-08	Mainline Plan
22-24	15-01 to 15-03	Mainline Profile
25	16-01	Crossroad Profile
26-28	17-01 to 17-03	Driveway Profiles
29	21-01	Drainage Area Map
30-33	22-01 to 22-04	Drainage Profiles
34-45	23-01 to 23-12	Earthwork Cross Sections
46-54	24-01 to 24-09	Utility Plans
55-62	26-01 to 26-08	Signing and Marking Plans
63-67	27-01 to 27-05	Signal Plans
68	50-01	Erosion Control Cover Sheet
69-77	51-01 to 51-09	Erosion, Sedimentation and Pollution Control General Notes
78-83	52-01 to 52-06	Erosion Control Legend and Uniform Code Sheet
84	53-01	Drainage Area Map
85-108	54-01 to 54-24	Best Management Practices (BMP) Location Details
.109	55-01	Watershed Map and Site Monitoring Location
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.		GEORGIA STANDARDS
.		GA. STD. 1011A - BRICK MANHOLES (10-81)
.		GA. STD. 1019A - DROP INLETS (8-99)
.		GA. STD. 1033D - CATCH BASINS (8-82)
.		GA. STD. 1034D - CATCH BASINS (8-82)
.		GA. STD. 1401 - PAVEMENT PATCHING DETAILS (STORM DRAIN OR UTILITY INSTALLATIONS BY
.		OPEN CUT ACROSS EXISTING PAVEMENT (8-99)
.		GA. STD. 9003 - FEDERAL AID AND STATE PROJECT MARKERS: RIGHT OF WAY MARKERS (4-06)
.		GA. STD. 9031U - JUNCTION BOXES, PIPE COLLARS, PIPE ELBOW & PIPE CURVED ALIGNMENT (7-85)
.		GA. STD. 9032B - CONCRETE CURB & GUTTER CONCRETE CURBS, CONCRETE MEDIANS (3-03)
.		GA. STD. 9039 - PERMANENT TIMBER TYPE BARRICADE (3-06)
.		GA. STD. 9100 - TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, & MISC. DETAILS (3-06)
.		GA. STD. 9102 - TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY (3-06)

SHEET NO.	DWG NO.	DESCRIPTION
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.		VALLEY GUTTER (2-03)
.		AT DRIVE PLACING PAVEMENT ADJACENT TO GUTTER ADDITIONAL PAVING AT
.		STREET INTERSECTION (2-03)
.		SPECIAL DETAIL A3 - CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS (6-09)
.		SPECIAL DETAIL A4 - DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND
.		ALIGNMENT REQUIREMENTS (6-09)
.		CONSTR. DETAIL D20 - CONSTRCTION DETAILS SILT CONTROL GATES FOR STRUCTURES (3-05)
.		CONSTR. DETAIL D24A -TEMPORARY SILT FENCE, BALED STRAW EROSION CHECK, BRUSH
.		BARRIER DETAILS. (9-01)
.		CONSTR. DETAIL D24B - TYPICAL LOCATION DETAILS FOR SILT FENCES/BALED STRAW (10-02)
.		CONSTR. DETAIL D41 - CONSTRUCTION EXIT (2-01)
.		CONSTR. DETAIL M3 - MEDIAN CROSSOVERS (10-02)
.		CONSTR. DETAIL T 01 - DETAIL OF SIGN PLATES (01-00)
.		CONSTR. DETAIL T 02 - DETAIL OF TYPICAL FRAMING (03-00)
.		CONSTR. DETAIL T 03a - DETAIL OF TYPE 7, 8, & 9 SQUARE TUBE POST INSTALLATION (07-02)
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.		CONSTR. DETAIL T 05a - DETAIL OF REGULATORY SIGN (01-03)
.		CONSTR. DETAIL T 05b - DETAIL OF REGULATORY SIGN (01-00)
.		CONSTR. DETAIL T11A - DETAILS OF PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY
.		(1-00)
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.		CONSTR. DETAIL T15C - DETAILS OF RAISED PAVEMENT MARKERS (1-00)
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.		CONSTR. DETAIL TS 03 - DETAILS OF CABINET BASE (04-10)
.		CONSTR. DETAIL TS 03a - DETAILS OF PEDESTRIAN FACILITIES (03-07)
.		CONSTR. DETAIL TS 03b - DETAILS OF CONTROLLER CABINET EQUIPMENT (03-07)
.		CONSTR. DETAIL TS 04 - DETAILS OF METAL TRAFFIC SIGNAL SUPPORT STRUCTURES (07-04)
.		CONSTR. DETAIL TS 05 - DETAILS OF CONCRETE TRAFFIC SIGNAL STRAIN POLE (09-08)
.		CONSTR. DETAIL TS 06 - DETAILS OF STRAIN POLE AND MAST ARM POLE FOUNDATION (07-04)
.		CONSTR. DETAIL TS 07 - GROUNDING DETAILS FOR OVERHEAD SPAN WIRE SIGNS AND
.		TRAFFIC SIGNAL (07-04)
.		CONSTR. DETAIL TS 08 - UTILITY CLEARANCE DETAIL (06-00)
.		CONSTR. DETAIL TS 09 - STANDARD GUYING DETAIL (07-04)
.		CONSTR. DETAIL TS 10 - DETAIL OF FIBER OPTICS 1 OF 2 (04-10)
.		CONSTR. DETAIL TS 11 - DETAIL OF FIBER OPTICS 2 OF 2 (04-10)

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REVISION DATES

CITY OF ATLANTA

OFFICE:

INDEX

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 2-01

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		

DATE	SHEET NO.	REVISION

DATE	SHEET NO.	REVISION

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3/1/2007 GPLN

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OFFICE:

REVISION SUMMARY

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 3-01

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION OF GEORGIA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES, 2001 EDITION AND SUPPLEMENTAL THERETO, AS PROVIDED BY THE FEDERAL HIGHWAY ADMINISTRATION

2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON HIGHWAY PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON HIGHWAY PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY UNDER THIS REQUIREMENT. EXCEPT AS NOTED BELOW. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE HIGHWAY PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. THE CONTRACTOR WILL NOT BE HELD RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE FROM STREET MAINS TO ABUTTING PROPERTY, WHEN SUCH FACILITIES ARE NOT SHOWN ON THE HIGHWAY PLANS AND THEIR EXISTANCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING, PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS. ALL UTILITY FACILITIES WHICH ARE IN CONFLICT WITH THE CONSTRUCTION AND ARE NOT COVERED AS SPECIFIC ITEMS IN THE DETAILED ESTIMATE ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF HIS WORK.

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

4. THE TOTAL ACRES/HECTARES SHOWN ON THE PLANS FOR CLEARING AND GRUBBING ARE FOR INFORMATION ONLY. THE CITY OF ATLANTA ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY. THE CONTRACTOR SHALL BID ON CLEARING AND GRUBBING LUMP SUM AND IT SHALL BE HIS RESPONSIBILITY TO DETERMINE THE ACTUAL ACRES TO BE CLEARED AND GRUBBED. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION IF THE CONTRACTOR RELIES ON THE ACRES SHOWN ON THE PLANS. CLEARING AND GRUBBING ON THIS PROJECT IS LIMITED TO THE ACTUAL CONSTRUCTION LIMITS UNLESS DIRECTED BY THE ENGINEER.

5. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED SUFFICIENT TO RETARD DUST. ALL COST FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR CLEARING AND GRUBBING.

6. THE TOTAL AREA SHOWN ON THE PLANS FOR GRASSING IS FOR INFORMATION ONLY. THE CITY OF ATLANTA ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY. THE CONTRACTOR SHALL BID ON GRASSING, LUMP SUM, AND IT SHALL BE HIS RESPONSIBILITY TO DETERMINE THE ACTUAL AREA TO BE GRASSED. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION IF THE CONTRACTOR RELIES ON THE AREA SHOWN ON THE PLANS.

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

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

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

10. WHERE WET SUBGRADE IS ENCOUNTERED AND IDENTIFIED BY THE ENGINEER, UNDERDRAIN PIPE WITH DRAINAGE AGGREGATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER TO AID IN DEWATERING THE SUBGRADE.

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

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

    ASPHALTIC AND UNPAVED DRIVES SHALL BE PAVED TO THEIR CONSTRUCTION LIMITS.
    RESIDENTIAL - RECYCLED ASPHALTIC CONCRETE 12.5 MM SUPERPAVE, GP 2 ONLY, INCL. BITUM MAT'L & LIME - 1-1/2 INCH GRADED AGGREGATE BASE, 6 INCH

    COMMERCIAL - RECYCLED ASPHALTIC CONCRETE 12.5 MM SUPERPAVE, GP 2 ONLY, INCL. BITUM MAT'L & H. LIME - 1-1/2 INCH RECYCLED ASPHALTIC CONCRETE 19 MM SUPERPAVE, GP 1 OR 2, INCL. BITUM MAT'L & H. LIME - 2 INCH GRADED AGGREGATE BASE, 8 INCH

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

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

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

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

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

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

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

    a) ADDITIONAL DETOUR SIGNAGE MAY BE REQUIRED IN ORDER TO CONFORM TO THE M.U.T.C.D. NO SEPARATE PAYMENT WILL BE MADE FOR THE ADDITIONAL DETOUR SIGNAGE NOT ILLUSTRATED ON THE DETOUR PLAN.

18. THIS PROJECT HAS A TOTAL AREA OF APPROXIMATLY 8.42 ACRES AND THE EXPECTED DISTURBED AREA IS 1.83 ACRES.

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

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

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

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

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

24. INITIAL LAYOUT OF SITE, INCLUDING THE STAKING OF CONTROL POINTS WILL BE REQUIRED BY THE CONTRACTOR. ALL COST FOR THIS ITEM WILL BE INCLUDED IN THE PRICE BID FOR OTHER CONTRACT ITEMS.

25. GEORGIA D.O.T. OPERATIONS AND MAINTENANCE, SHALL BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF ALL SIGNING, STRIPING AND GUARDRAIL PLACEMENT FOR PRE-MARKING THE LOCATIONS. THE CONTRACTOR SHALL CORRELATE THIS ACTION WITH THE PROJECT ENGINEER.

26. RIGHT-OF-WAY MARKERS IN RESIDENTIAL LAWN AND DEVELOPED COMMERCIAL AREAS SHALL BE PLACED FLUSH WITH THE FINISH SURFACE.

27. A N.O.I. IS REQUIRED FOR THIS PROJECT.

28. FOR THIS PROJECT THE CONTRACTOR SHALL BE REQUIRED TO FURNISH A FIELD ENGINEERS OFFICE. HOWEVER THE OWNER'S AGENT RESERVES THE RIGHT TO CHANGE THIS REQUIREMENT AT THE TIME OF LETTING. IF THIS PROJECT IS LET IN CONJUNCTION WITH PROJECT CSTEE-0006-00(571) OR CM000-0004-00(493) THE FIELD OFFICE REQUIREMENT CAN BE CONSOLIDATED BY CONSTRUCTING A SINGLE OFFICE FOR ALL OF THE PROJECTS, AT THE OWNERS DISCRETION.

29. ALL REFERENCES TO STAMPED CONCRETE SHALL MEAN AND DEEMED TO MEAN INTEGRAL COLORED STAMPED CONCRETE SIDEWALK. THE CONTRACTOR SHALL SUBMIT A COLOR SAMPLE TO THE ENGINEER FOR APPROVAL. THE STAMP PATTERN SHALL BE BRICK. MEASUREMENT AND PAYMENT - NO SEPARATE MEASUREMENT SHALL BE MADE. PRICE FOR COLOR CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE FOR SIDEWALK 4".

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REVISION DATES

CITY OF ATLANTA

GENERAL NOTES

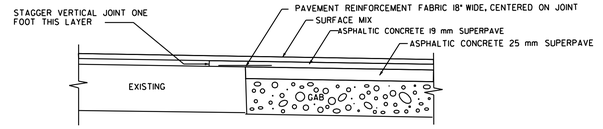
BOLTON RD AT MARIETTA BLVD

DRAWING No. 4-01

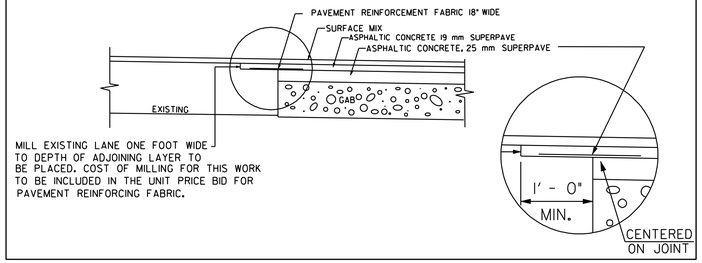
GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		

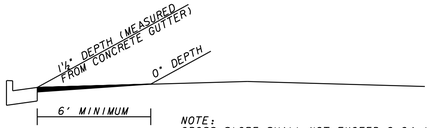
TYPICAL SECTION DETAIL TO BE USED WHEN
EXISTING PAVEMENT IS TO BE RESURFACED WITH
TWO INCHES OR MORE OF ASPHALTIC CONCRETE



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



CURB AND GUTTER SECTION
DETAIL FOR MILLING ALONG EXISTING CURB AND GUTTER

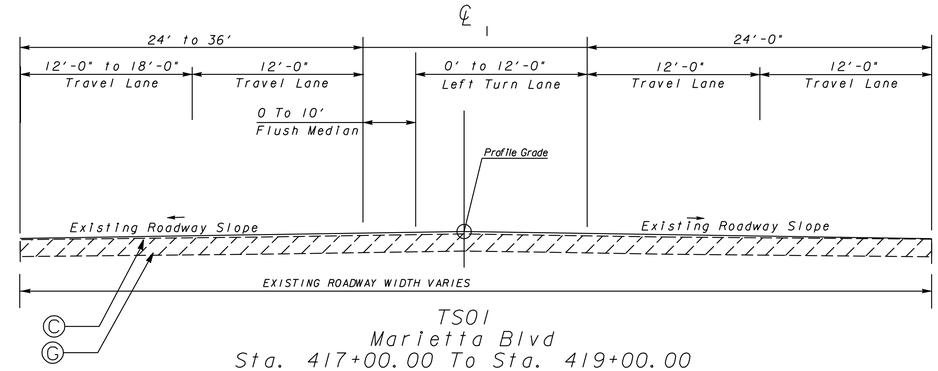


NOTE:
CROSS SLOPE SHALL NOT EXCEED 0.04 1/1

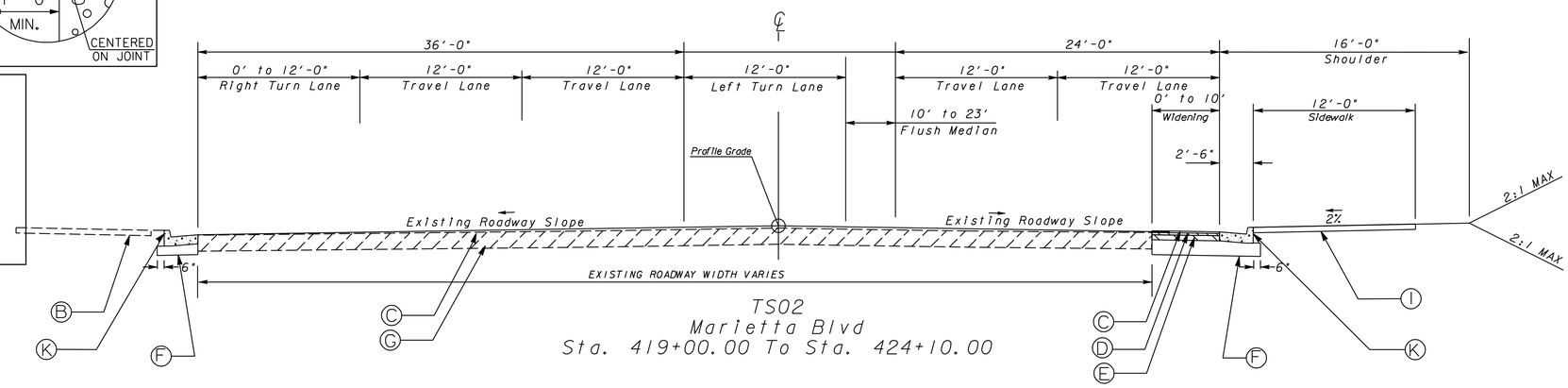
Marietta Blvd
417+30 LT - 419+00 LT
424+10 LT - 447+45 LT

Bolton Rd
273+00 RT - 275+15 RT

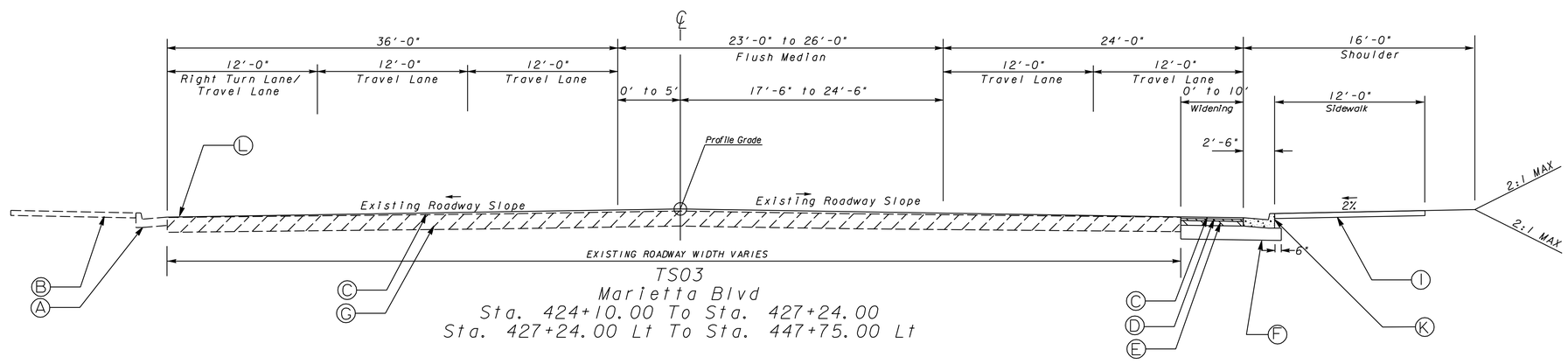
(A) EXISTING CURB AND GUTTER
(B) EXISTING SIDEWALK
(C) 12.5mm SUPERPAVE 165 LB/YD SQ.
(D) 19mm SUPERPAVE 220 LB/YD SQ.
(E) 25mm SUPERPAVE 990 LB/YD SQ.
(F) 12" AGGREGATE BASE COURSE
(G) EXISTING ROADWAY PAVEMENT
(H) 5' X 4" CONC. SIDEWALK
(I) 12' X 4" CONC. SIDEWALK
(J) STAMPED CONCRETE
(K) 8" X 30" CONC. CURB AND GUTTER TP2 (TYPICAL)
(L) MILLING ALONG EXIST CURB & GUTTER (SEE DETAIL)



TS01
Marietta Blvd
Sta. 417+00.00 To Sta. 419+00.00



TS02
Marietta Blvd
Sta. 419+00.00 To Sta. 424+10.00



TS03
Marietta Blvd
Sta. 424+10.00 To Sta. 427+24.00
Sta. 427+24.00 Lt To Sta. 447+75.00 Lt

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REVISION DATES		

CITY OF ATLANTA
OFFICE:
TYPICAL SECTIONS
FULTON COUNTY
BOLTON RD AT MARIETTA BLVD
DRAWING No. 5-01

3/1/2007 GPLN

ALLOWABLE RANGES TABLE

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

A. NORMAL CROWN

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

B. SUPERELEVATION RATE

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

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

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

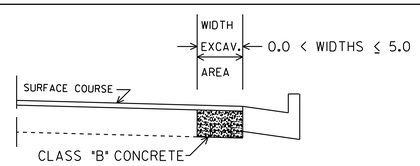
LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

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

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

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



NO SCALE
CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING
Item Code 500-9999 - Cu. Yds.

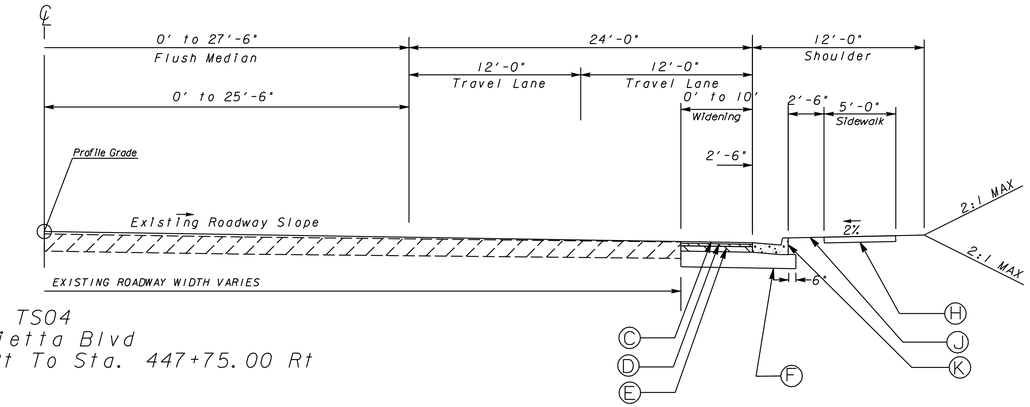
In excavated areas between the existing paving and new curb and gutter that are 5'-0" or less in width, Class "B" concrete shall be placed in lieu of the base and paving specified by the typical section. Payment will be made under "Class B Concrete Base and Pavement Widening".

In excavated areas greater than 5'-0" in width, the Contractor shall place base and paving as specified on the typical section.

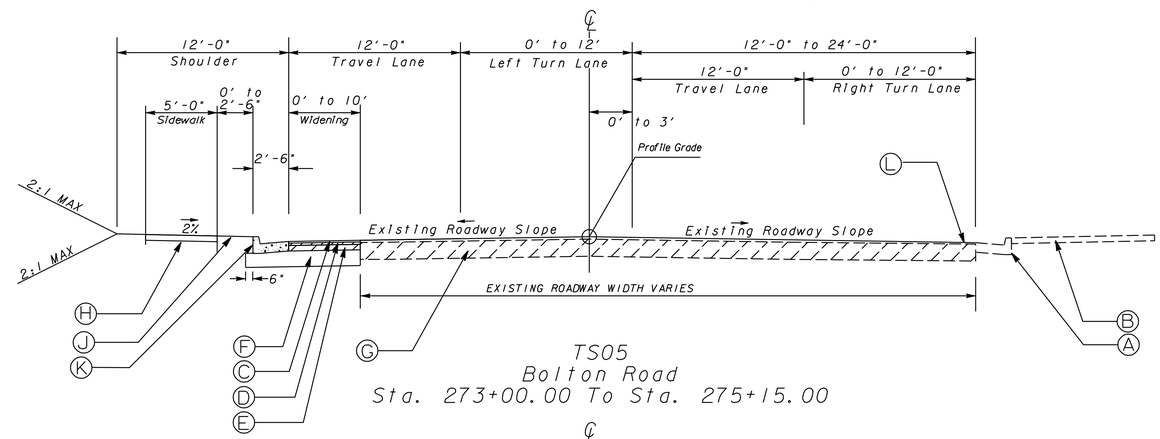
See plans for details of curb and gutter construction.

CLASS "B" CONCRETE BASE OR WIDENING DETAIL

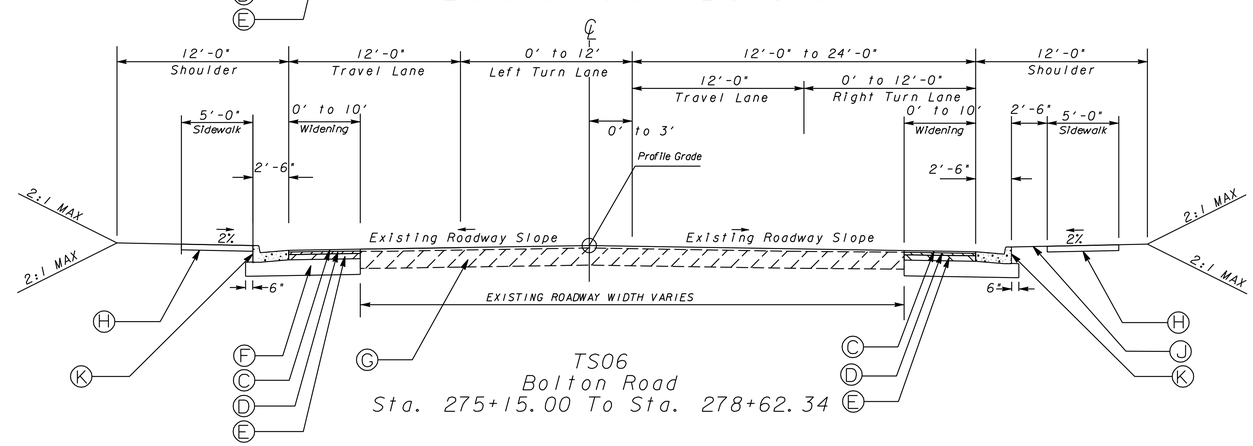
(A) EXISTING CURB AND GUTTER
(B) EXISTING SIDEWALK
(C) 12.5mm SUPERPAVE 165 LB/YD SQ.
(D) 19mm SUPERPAVE 220 LB/YD SQ.
(E) 25mm SUPERPAVE 990 LB/YD SQ.
(F) 12" AGGREGATE BASE COURSE
(G) EXISTING ROADWAY PAVEMENT
(H) 5' X 4" CONC. SIDEWALK
(I) 12' X 4" CONC. SIDEWALK
(J) STAMPED CONCRETE
(K) 8" X 30" CONC. CURB AND GUTTER TP2 (TYPICAL)



TS04
Marietta Blvd
Sta. 427+24.00 Rt To Sta. 447+75.00 Rt



TS05
Bolton Road
Sta. 273+00.00 To Sta. 275+15.00



TS06
Bolton Road
Sta. 275+15.00 To Sta. 278+62.34

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REVISION DATES		

CITY OF ATLANTA
OFFICE:
TYPICAL SECTIONS
FULTON COUNTY
BOLTON RD AT MARIETTA BLVD
DRAWING No. 5-02

SUMMARY OF QUANTITIES

SURFACING QUANTITES

ITEMS	UNIT	SUBTOTAL	DRIVEWAY	TOTAL
AGGREGATE SURFACE COURSE	TONS	50		50
ASPHALTIC CONC 12.5mm SUPERPAVE	TONS	2419	31	2450
ASPHALTIC CONC 19.0mm SUPERPAVE	TONS	183	42	225
ASPHALTIC CONC 25.0mm SUPERPAVE	TONS	365	--	365
RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TONS	100		100
MILL ASPH CONC PVMT, VARIABLE DEPTH	SY	2700		2700
GR AGGR BASE CRS, 6" INCL. MATL.	SY	--	380	380
GR AGGR BASE CRS, 12" INCL. MATL.	SY	3074	--	3074
BITUM TACK COAT	GAL	2154	53	2207
PAVMT REINF FABRIC STRIPS, TP 2, 18 IN WIDTH	LF	2070	--	2070

GRADING COMPLETE

LUMP SUM	1

4" CONCRETE SIDEWALK

	SY
TOTAL	2216

CONCRETE DRIVEWAY, 8 IN

	SQ. YDS.
TOTAL	260

CLASS B CONCRETE

	C. YDS.
TOTAL	57

CONCRETE MEDIAN, 6 IN

	SQ. YDS.
TOTAL	280

SUMMARY OF DRIVEWAY QUANTITIES

* NOTE: FOR IMFORMATION ONLY; SEE SURFACING QUANTITIES BLOCK.

LOCATION	WIDTH	6" AGGR. BASE	ASPHALT CONC. 12.5mm	ASPHALT CONC. 19.0mm	CONCRETE 8 IN
STATION & SIDE	FEET	SQ. YD.	TONS	TONS	SQ. YD.
STA 275+30.00 LT	24	38.49	3.18	4.23	--
STA 425+70.00 RT	36	161.09	13.29	17.72	--
STA 429+00.00 RT	28	15.00	1.24	1.65	--
STA 430+83.00 RT	24	64.81	5.35	7.13	--
STA 437+62.00 RT	20	--	--	--	113.13
STA 438+42.00 RT	24	--	--	--	146.67
STA 442+46.00 RT	30	100.55	8.30	11.06	--
TOTAL		379.94	31.36	41.79	259.80

CONCRETE VALLEY GUTTER, 6 IN

	SQ. YDS.
TOTAL	480

CONCRETE CURB & GUTTER 8"X 30"TYPE 2, STD. 9032-B

	LIN. FT.
TOTAL	4094

TRAFFIC CONTROL

LUMP SUM	1

SAWED JOINTS IN EXISTING PAVEMENT-PCC

	LIN. FT.
TOTAL	130

ORANGE BARRIER FENCE

	LIN. FT.
TOTAL	180

RIGHT OF WAY MARKERS

	EACH
TOTAL	7

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CITY OF ATLANTA

OFFICE:

SUMMARY OF QUANTITIES

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 6-01

SUMMARY OF QUANTITIES

DRAINAGE QUANTITIES					STORM DRAIN PIPE				FLARED END SECTIONS GA. STD. 1120			CATCH BASIN, GP 1 GA. STD. 1034D	CATCH BASIN, GP 1 ADD. DEPTH	CATCH BASIN, GP 1 GA. STD. 1033D	CATCH BASIN, GP 1 ADD. DEPTH	DROP INLET TP A GA. STD. 1019A	DROP INLET, GP 1 ADD. DEPTH	DROP INLET TP E (WITH HOOD) GA STD 1019A	STORM SEWER MANHOLE, TP 1 GA. STD. 1011A	STORM SEWER MANHOLE, TP 1 ADD. DEPTH	ADJUST DROP INLET TO GRADE	STONE DUMPED RIP RAP TP3 18"	FILTER FABRIC	JUNCTION BOX GA. STD. 9031U	FOUNDATION BACKFILL TYPE II	RECONST. CATCH BASIN	DROP INLET, GA. STD. 9031S
									STORM																		
STR. NO.	LOCATION	PLAN SHEET NO.	PIPE GRADE	MAX. HT. OF FILL	18" HI-10	24" HI-10	30" H 1-10	36" H 1-10	18"	24"																	
			%	LF	LF	LF	LF	LF	EA.			EA.	LF	EA.	LF	EA.	LF	EA.	EA.	LF	EA	SY	SY	EA.	CY	EA.	EA.
A-12	STA 439+00.00 42.3'RT	13-04	2.65		301									1													
A-11	STA 436+00.00 44.1'RT	13-04	3.41		302									1													
A-10	STA 432+47.00 50.8'RT	13-03	2.52		327									1													
A-9	STA 429+70.00 54.2'RT	13-03	2.44		235									1													
A-8	STA 427+35.00 54.3'RT	13-02	1.21			214								1													
A-13	STA 427+35.00 42.9'RT	13-02	4.23		11																			1			
A-7	STA 425+22.00 49.2'RT	13-02	0.91			156								1													
A-6	STA 423+65.00 45.8'RT	13-02	0.82			213								1													
A-5	STA 421+53.00 41.6'RT	13-01	1.62			168								1													
A-4	STA 419+86.00 58'RT	13-01	3.54			22								1													
A-3A	STA 900+34.00 0.0'RT	13-01	1.57		26														1	1							
A-3	STA 900+61.00 0.0'RT	13-01	4.15			242													1	1							
A-2	STA 903+03.00 0.0'RT	13-08	3.77			240													1								
A-1	STA 905+43.00 0.0'RT	13-08	1.97			56													1								
A-0	STA 905+80.00 42.3'LT	13-08																								1	
B-2	STA 421+70.00 70.0'LT	13-01	1.00		30											1											
B-1	STA 421+45.50 58.6'LT	13-01																						1			
R-3	STA 447+65.00 29.8'RT	13-06	3.02		166									1													
R-2	STA 446+00.00 31.5'RT	13-06	2.35		320									1													
R-1	STA 442+81.00 38.5'RT	13-05												1	0.72												
M-4	STA 274+50.00 18.5'LT	13-07	2.07		24									1	1												
M-3	STA 274+27.00 9.5'LT	13-07	2.07		126																			1			
M-2	STA 273+02.00 6.0'LT	13-07	2.07		152																			1			
M-1	STA 271+50.00 12.0'LT	13-07	2.07																								
	TOTAL				2020	1311								13	1.72	1			4	2				4		1	

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CITY OF ATLANTA

OFFICE:

SUMMARY OF QUANTITIES

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 6-02

SUMMARY OF QUANTITIES

EROSION CONTROL PERMANENT & TEMPORARY QUANTITIES	BITUMINOUS TREATED ROVING	TEMPORARY SILT FENCE TP C	MAINTENANCE OF TEMPORARY SILT FENCE TP C	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	MAINTENANCE OF INLET SEDIMENT TRAP	PERMANENT GRASSING	TEMPORARY GRASS	MULCH	LIQUID LIME	AGRICULTURAL LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	WATER QUALITY MON. & SAMPLING	WATER QUALITY INSPECTIONS
SHEET NUMBERS	SY	LF	LF	EA	EA	AC	AC	TN	GAL	TN	TN	LB	EA	MO
SUBTOTAL														
AS DIRECTED BY ENGINEER														
TOTAL		2950	1475	19	19	1	1	100	3	2	1	50	2	6

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CITY OF ATLANTA

OFFICE:

SUMMARY OF QUANTITIES

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 6-03

SUMMARY OF QUANTITIES–STANDARD SIGNS

STATION	INSTL. NO.	SIGN CODE	TP 1 MATL, REFL SHEETING TP 3			HIGHWAY SIGNS TP 2 MATL, REFL SHEETING TP 3			HIGHWAY SIGNS TP 1 MATL, REFL SHEETING TP 9			SQUARE TUBE POST TYPE 7		
			SIZE	QUANTITY	SQUARE FEET	SIZE	QUANTITY	SQUARE FEET	SIZE	QUANTITY	SQUARE FEET	LENGTH (FEET)	QUANTITY	TOTAL LENGTH
BOLTON RD														
276+06.00 LT	1	R1-2							TR1 36"	1	4.00	12	1	12
277+50.00 RT	2	R10-11a	24" X 30"	1	5.00							12	1	12
												12	1	12
ADAMS DR														
865+68.00 RT	3	R11-2				48" X 30"	1	10.00				12	1	12
MARIETTA BLVD														
418+16.00 LT	4	R9-3a	18" X 18"	1	2.25							12	1	12
		R9-3bL	12" X 18"	1	1.50									
418+88.00 LT	5	R9-3a	18" X 18"	1	2.25							12	1	12
		R9-3bL	12" X 18"	1	1.50									
419+68.00 LT	6	R10-11b	24" X 24"	1	4.00							12	1	12
420+94.00 LT	7	R10-11b	24" X 24"	1	4.00							12	1	12
422+10.00 LT	8	R1-2							TR1 36"	1	4.00	12	1	12
422+27.00 LT	9	R560-5	18" X 24"	1	3.00							12	1	12
425+25.92 RT	10	R1-1							30" X 30"	1	6.25	12	1	12
426+60.00 RT	11	R8-3A	24" X 24"	1	4.00							12	1	12
435+25.00 RT	12	R8-3A	24" X 24"	1	4.00							12	1	12
440+10.00 RT	13	R8-3A	24" X 24"	1	4.00							12	1	12
447+50.00 LT	14	R9-3a	18" X 18"	1	2.25							12	1	12
		R9-3bL	12" X 18"	1	1.50									
447+50.00 RT	15	R9-3a	18" X 18"	1	2.25							12	1	12
		R9-3bL	12" X 18"	1	1.50									
LA DAWN LN														
1200' RT OF BOLTON RD	16	D3-1	48" X 12"	1	4.00							12	1	12
TOTAL				16	47		1	10		3	14.25		15	204

SUMMARY OF TRAFFIC SIGNAL ITEMS

DESCRIPTION	UNIT	QUANTITY
TRAFFIC SIGNAL INST. NO. 1	LUMP	LUMP
TRAFFIC SIGNAL INST. NO. 2	LUMP	LUMP
DIRECTIONAL BORE – 7 IN	LF	600
STEEL STRAIN POLE TP IV, MAST ARM	EA	2
PULL BOX, PB–7	EA	1
PEDESTAL POST	EA	8
CONDUIT, NONMETAL, TP 3, 2 IN	LF	700

TRAFFIC STRIPE

DESCRIPTION	UNIT	QUANTITY THERMOPLASTIC
5 IN SOLID WHITE	LF	7250
5 IN SOLID YELLOW	LF	11480
5 IN SKIP WHITE	LF	7400
24 IN WHITE	LF	180
8 IN WHITE	LF	1264

THERMO TRAF STRIPE (YELLOW), (SY)

QUANTITY	1731

WORDS (EACH)

DESCRIPTION	QUANTITY THERMOPLASTIC
TYPE 1	2

ARROWS (EACH)

DESCRIPTION	QUANTITY THERMOPLASTIC
TYPE 2	12
TYPE 3	2
TYPE 5	1

BARRICADE

DESCRIPTION	UNIT	QUANTITY
TYPE III	LF	20

REMOVE SIGN

EACH	3

RESET SIGN

EACH	5

RAISED PAVEMENT MARKER

QUANTITY	EA
TP 1, (YELLOW)	24
TP 3, (RED/CLEAR)	151

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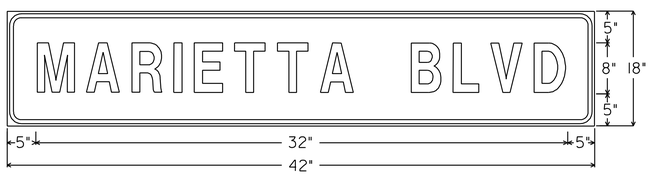
REVISION DATES

CITY OF ATLANTA
OFFICE:
SUMMARY OF QUANTITIES
FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

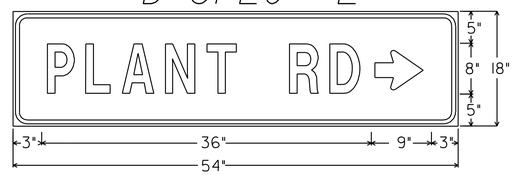
DRAWING No. 6-04

DETAILS OF OVERHEAD STREET NAME AND SPECIAL SIGNS SUMMARY OF QUANTITIES

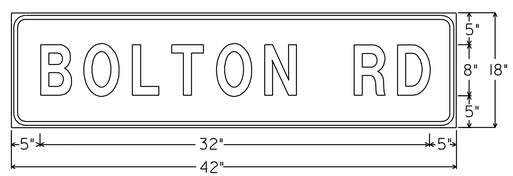
D-SPEC #1



D-SPEC #2

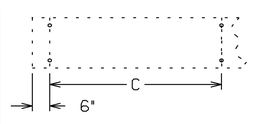


D-SPEC #3

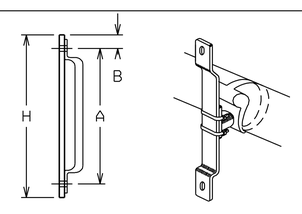


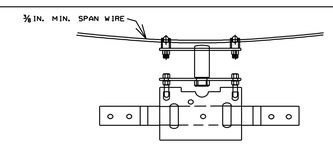
LOCATION	SIGNS-TYPE 2 MAT'L (.10), TYPE 3 SHEETING			
	CODE	SIZE	QUAN.	SQ.FT.
INSTALLATION NO.1	SPEC #1	42" X 18"	2	10.50
	SPEC #2	54" X 18"	1	6.75
	SPEC #3	54" X 18"	2	13.50
TOTALS			5	30.75

MOUNTING DIMENSIONS			
H	A	B	C
12"	9"	1½"	36"
18"	15"	1½"	24"
24"	18"	1½"	18"
30"	24"	3"	12"



FOR MOUNTING TO MAST ARMS STRUCTURES.
(NOT TO SCALE)
NOTE: USE ASTRO MINI SIGN BRAC AND CLAMP OR EQUIVALENT





MULTI-LEVELING WIND DAMPING BRACKET
(NOT TO SCALE)

GENERAL NOTES:

1. EACH SIGN SHALL CONTAIN A MINIIMUM OF TWO (2) HANGERS OR BRACKETS.
2. SIGN LEGEND SHALL BE 8-IN. UPPER CASE & 6-IN. LOWER CASE SERIES "D" LETTERS ALL ARROWS SHALL BE 6-IN. TALL & 9-IN. LONG
3. EACH SIGN SHALL CONTAIN 1/2-IN BORDERS AND 1 1/2-IN RADII.
4. EACH SIGN SHALL BE MADE OF ONE CONTINUOUS PIECE OF ALUMINUM.
5. SIGNS SHALL HAVE STANDARD REFLECTORIZED INTERSTATE GREEN BACKGROUND WITH WHITE REFLECTORIZED LEGENDS, BORDERS AND ARROWS.

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REVISION DATES

CITY OF ATLANTA

OFFICE:

SUMMARY OF QUANTITIES

FULTON COUNTY
BOLTON RD @ MARIETTA BLVD

DRAWING No. 6-05

GPLN

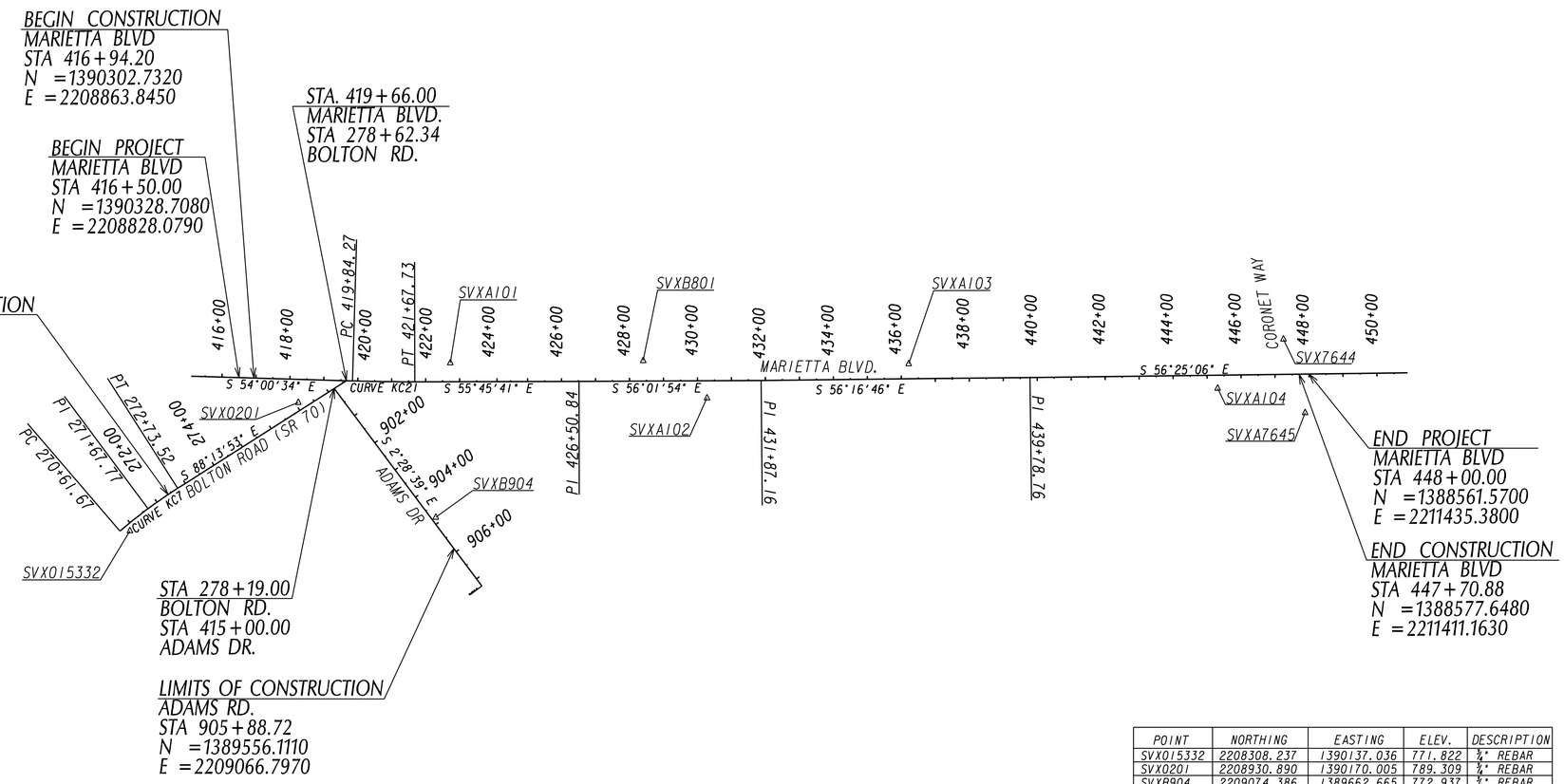
DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		

BOLTON ROAD
CONSTRUCTION CENTERLINE
KC7

PI Sta =	271+67.77
PI North =	1390164.42
PI East =	2208389.23
Delta =	8°05'32"
Degree =	3°49'11"
Tangent =	106.10
Length =	211.85
Radius =	1500.00
External =	3.75
S.E. Rate =	MATCH

MARIETTA BLVD
CONSTRUCTION CENTERLINE
KC21

PI Sta =	420+76.01
PI North =	1390078.36
PI East =	2209172.77
Delta =	1°45'07"
Degree =	0°57'18"
Tangent =	91.74
Length =	183.47
Radius =	6000.00
External =	0.70
S.E. Rate =	MATCH



POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
SVX015332	2208308.237	1390137.036	771.822	¾" REBAR
SVX0201	2208930.890	1390170.005	789.309	¾" REBAR
SVXB904	2209074.386	1389662.665	772.937	¾" REBAR
SVXA101	2209366.201	1390014.137	796.947	¾" REBAR
SVXB801	2209838.876	1389699.540	803.501	¾" REBAR
SVXA102	2209932.043	1389502.677	808.647	¾" REBAR
SVXA103	2210479.324	1389251.311	825.905	¾" REBAR
SVXA104	2211189.504	1388678.595	844.131	¾" REBAR
SVXA7644	2211431.120	1388688.998	842.253	¾" REBAR
SVXA7645	2211361.666	1388474.229	839.546	¾" REBAR

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SCALE IN FEET
0 200 400 800

REVISION DATES

CITY OF ATLANTA

OFFICE:

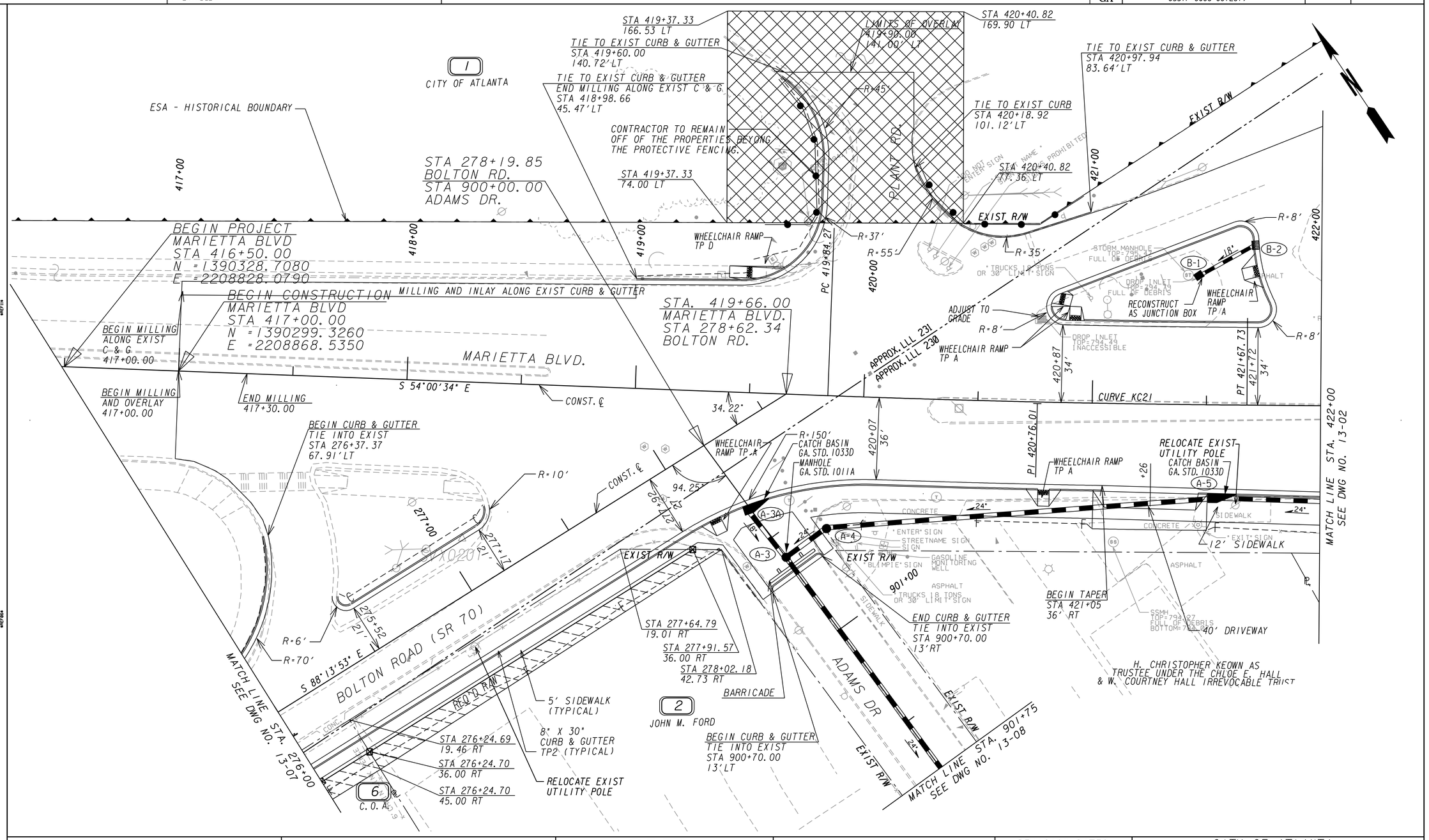
CONSTRUCTION LAYOUT

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 11-01

3/1/2007 GPLK

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
R/W AND LIMIT OF ACCESS	

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SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ATLANTA

OFFICE:

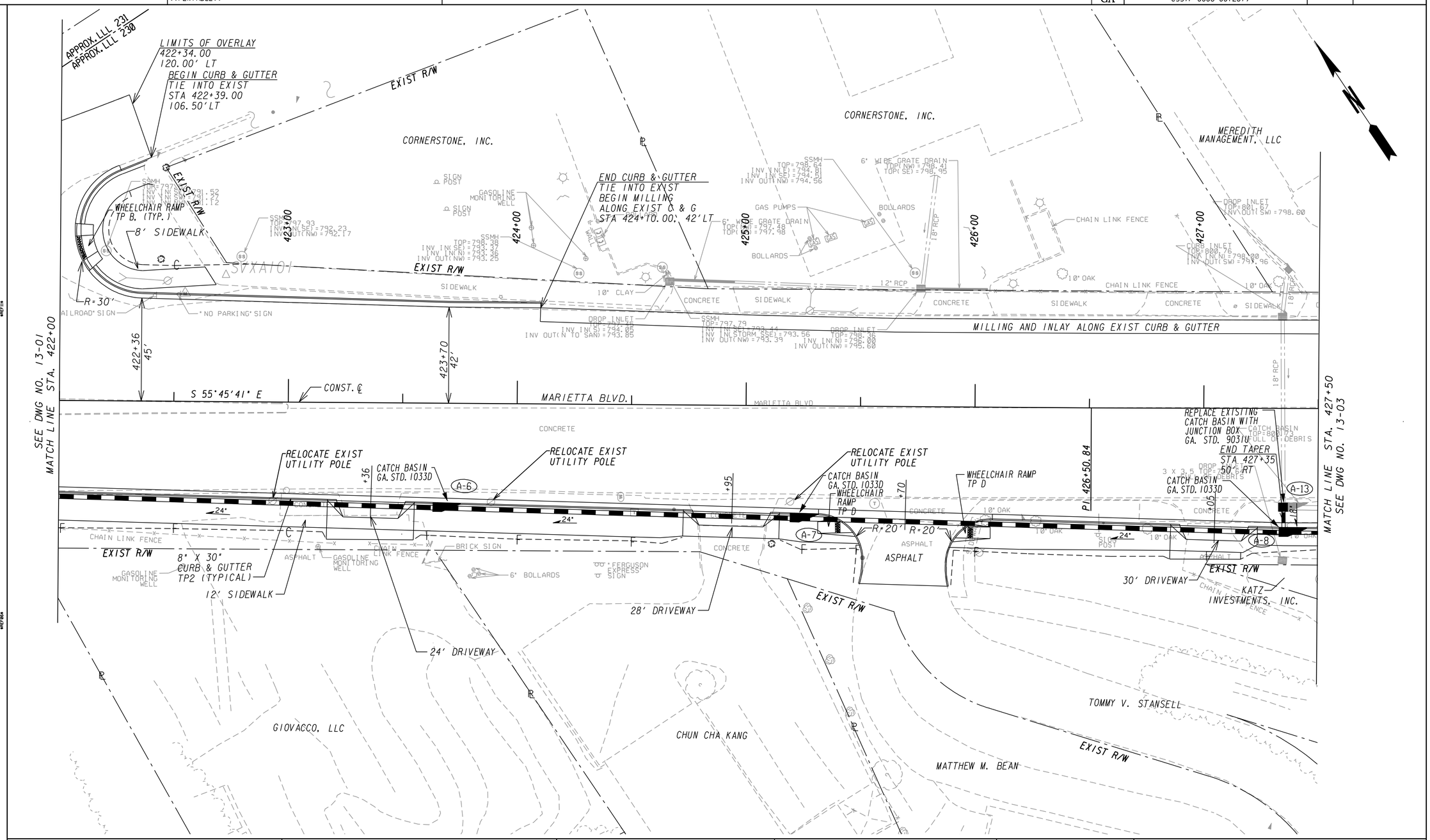
MAINLINE PLAN

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No.
13-01

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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

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SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ATLANTA

OFFICE:

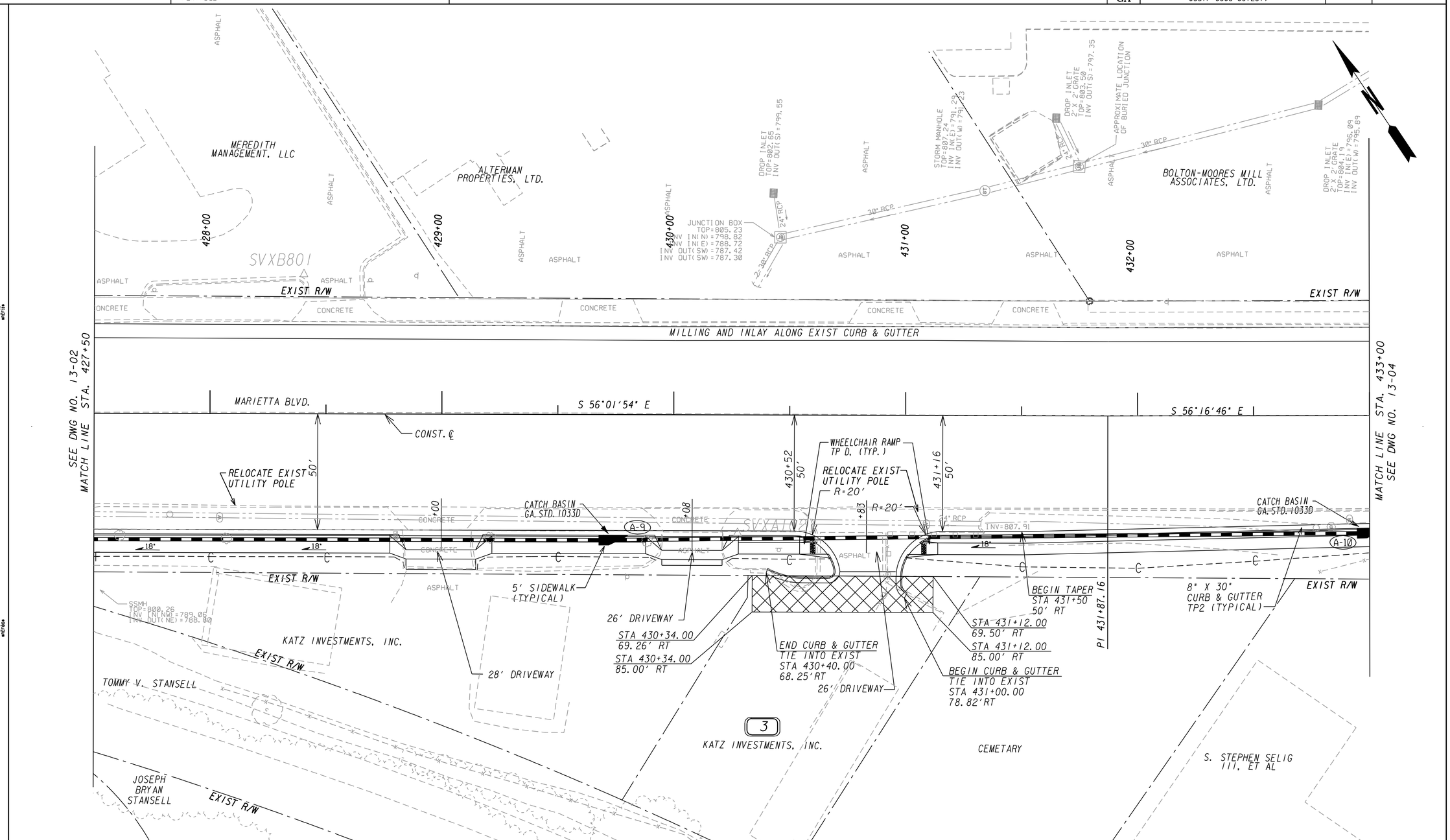
MAINLINE PLAN

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 13-02

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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

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SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ATLANTA

OFFICE:

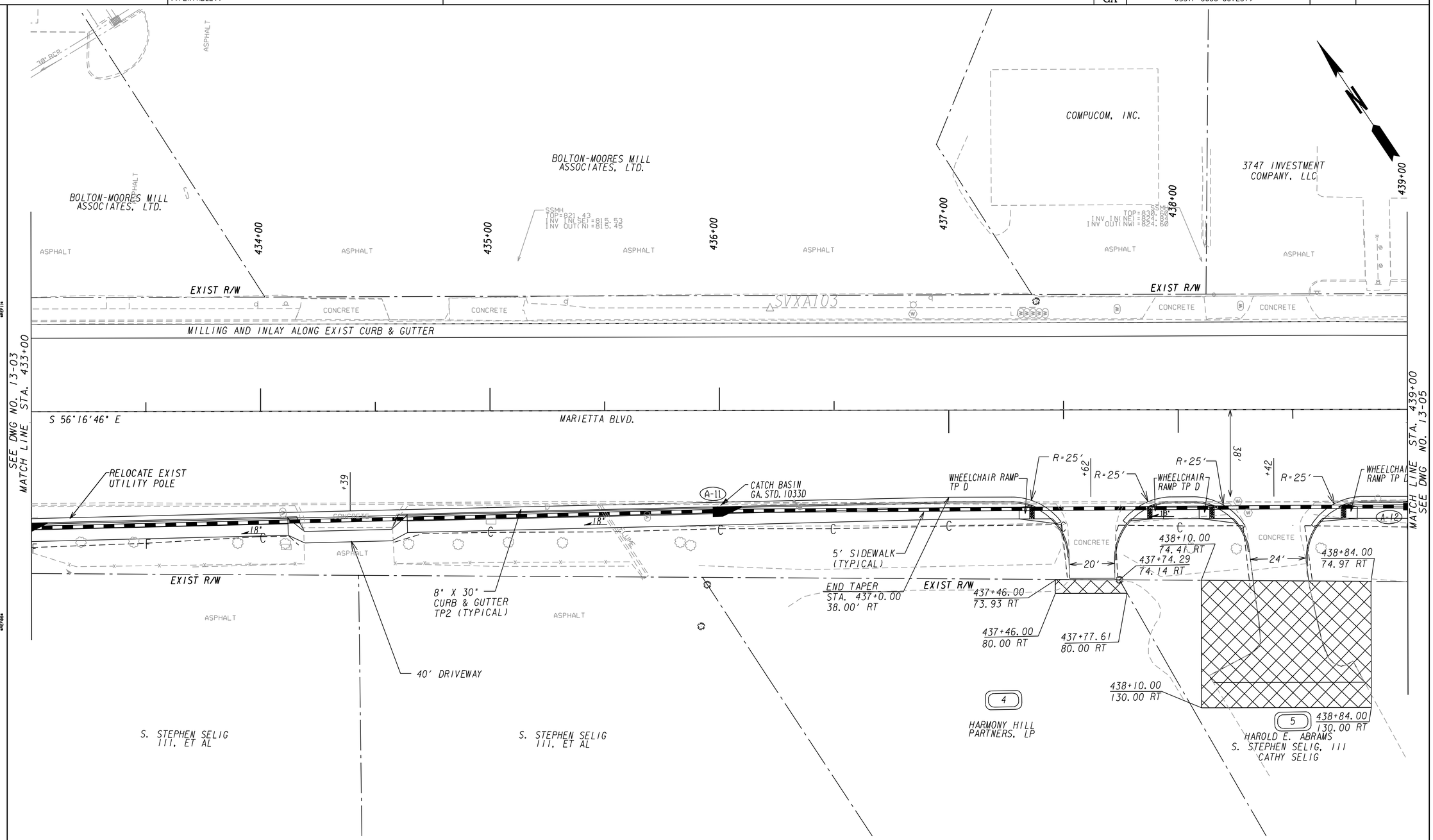
MAINLINE PLAN

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 13-03

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ATLANTA

OFFICE:

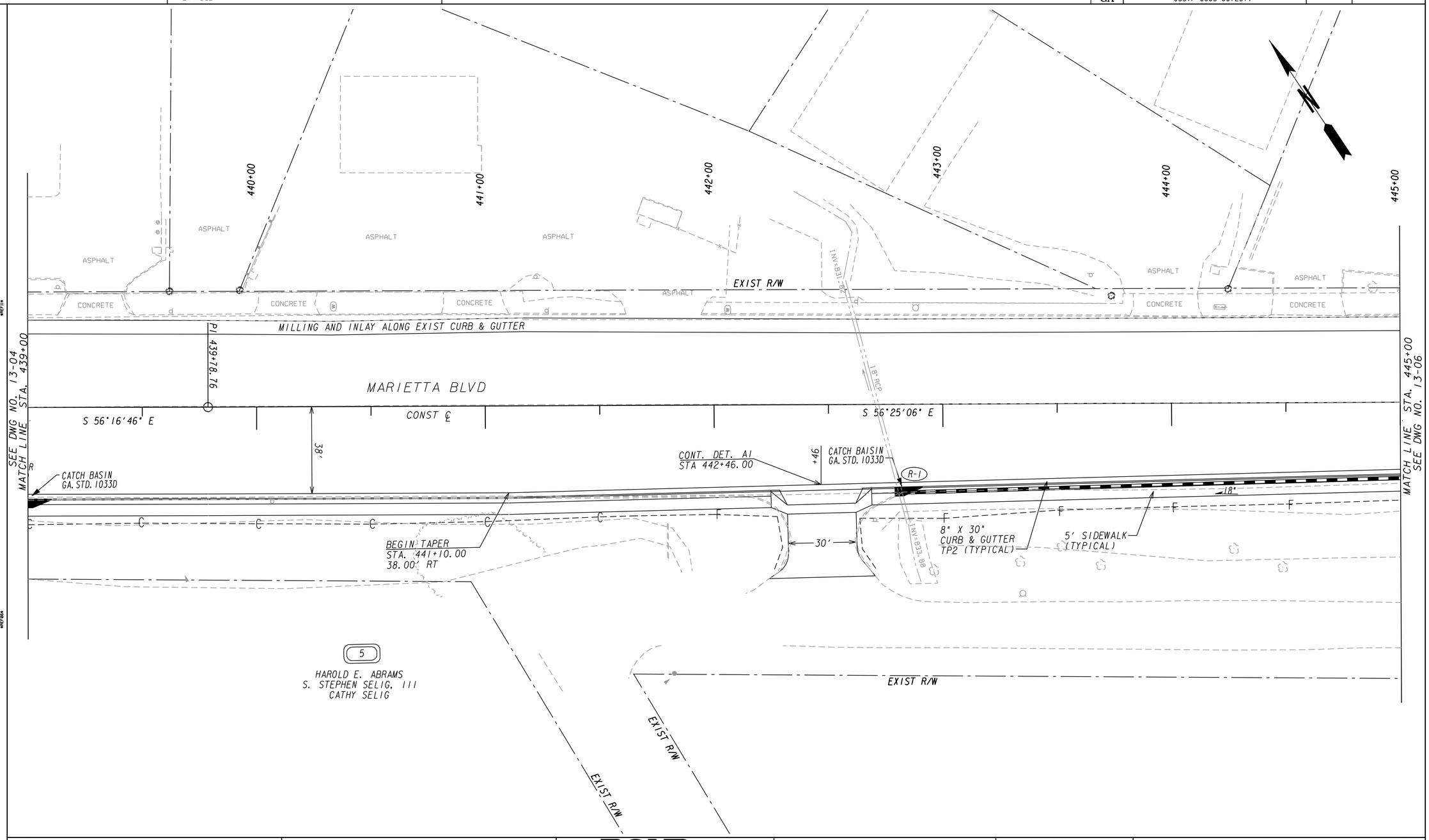
MAINLINE PLAN

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 13-04

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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

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SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ATLANTA

OFFICE:

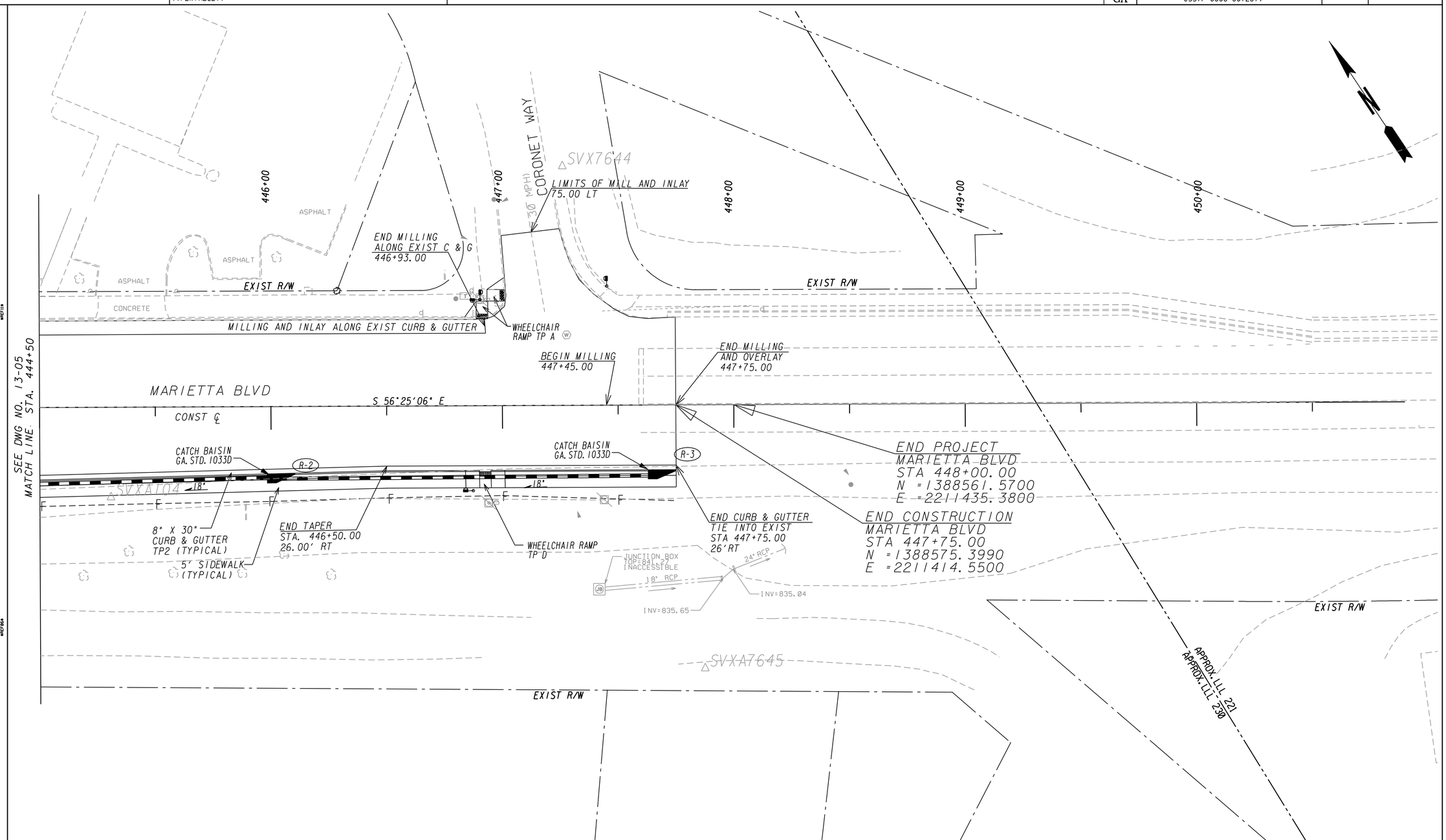
MAINLINE PLAN

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 13-05

3/1/2007 GPLM

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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

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SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ATLANTA

OFFICE:

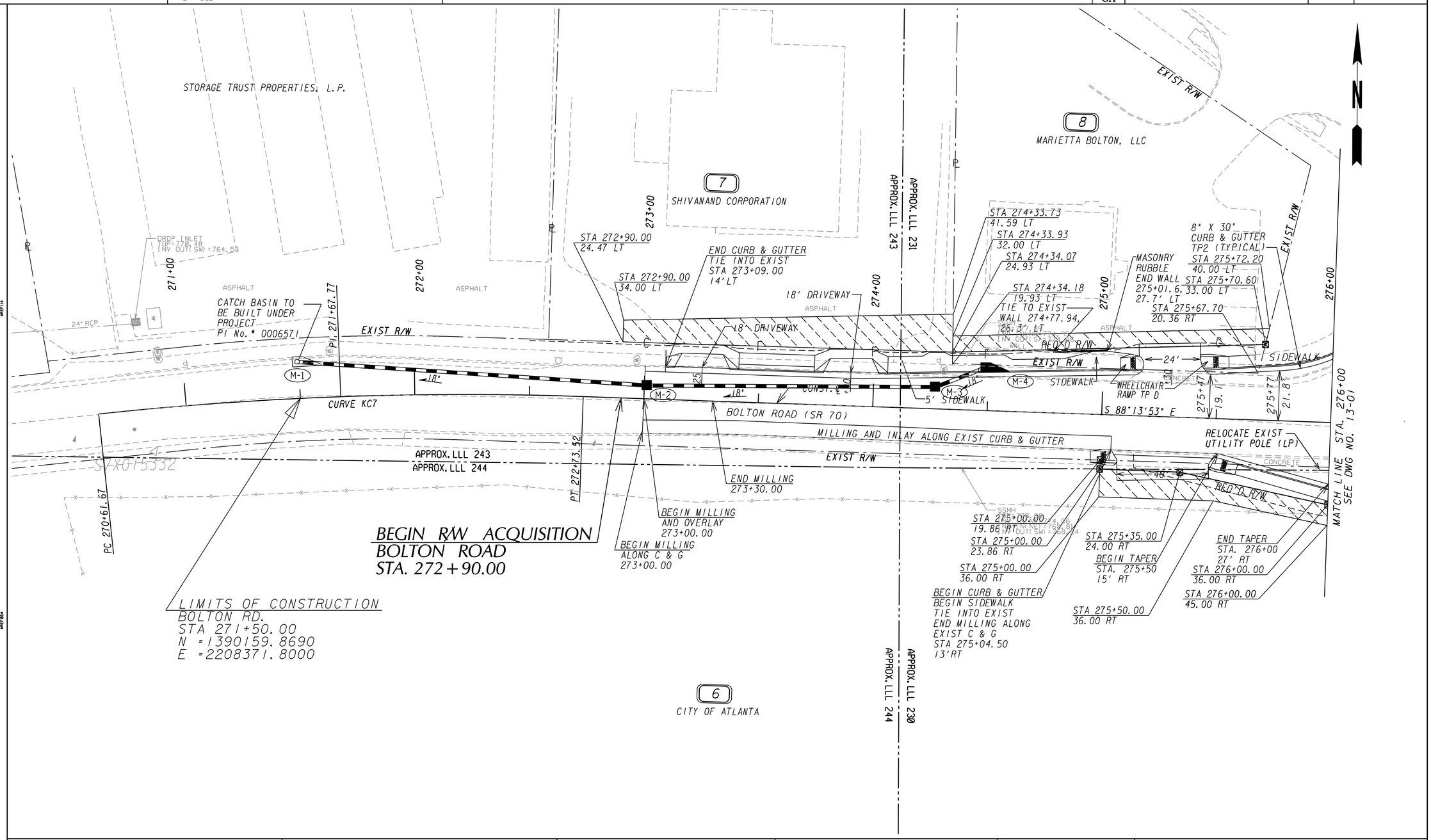
MAINLINE PLAN

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 13-06

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-001261		



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

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
R/W AND LIMIT OF ACCESS	

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SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ATLANTA

OFFICE:

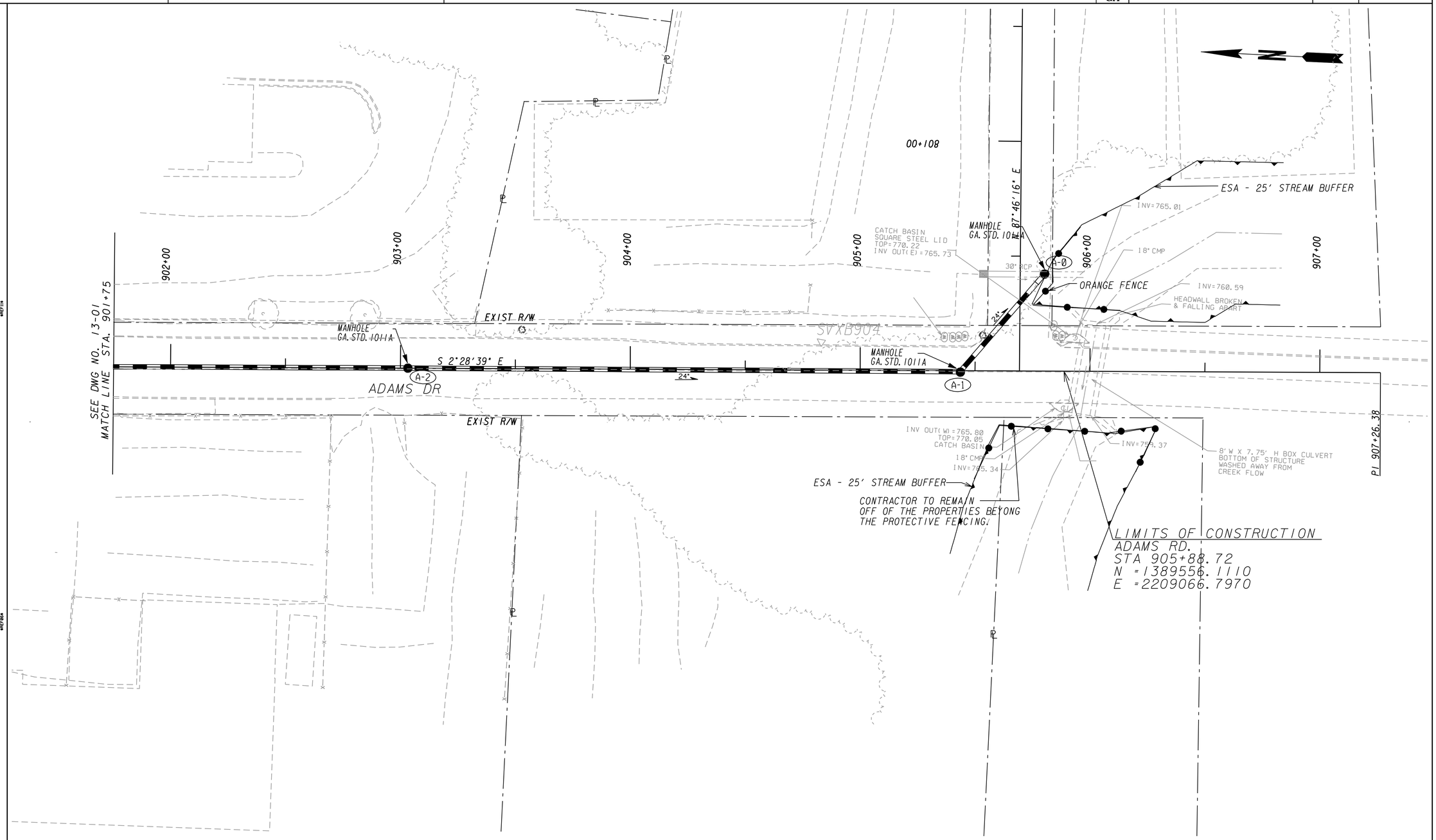
MAINLINE PLAN

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 13-07

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
R/W AND LIMIT OF ACCESS	

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SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ATLANTA

OFFICE:

MAINLINE PLAN

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 13-08

3/1/2007 GPLN

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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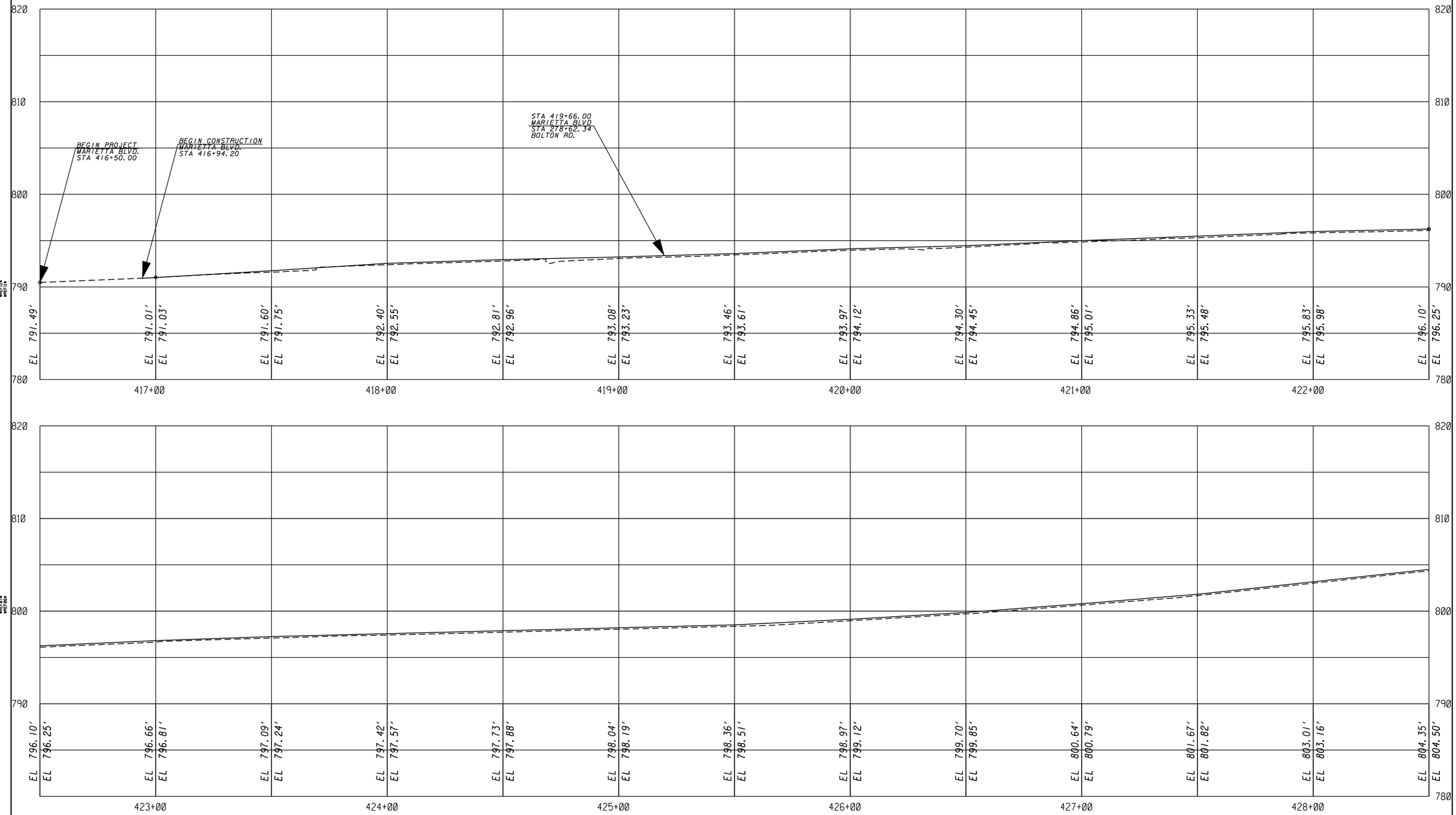

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1" = 20' HORIZ.
1" = 5' VERT.

REVISION DATES		

CITY OF ATLANTA

OFFICE:

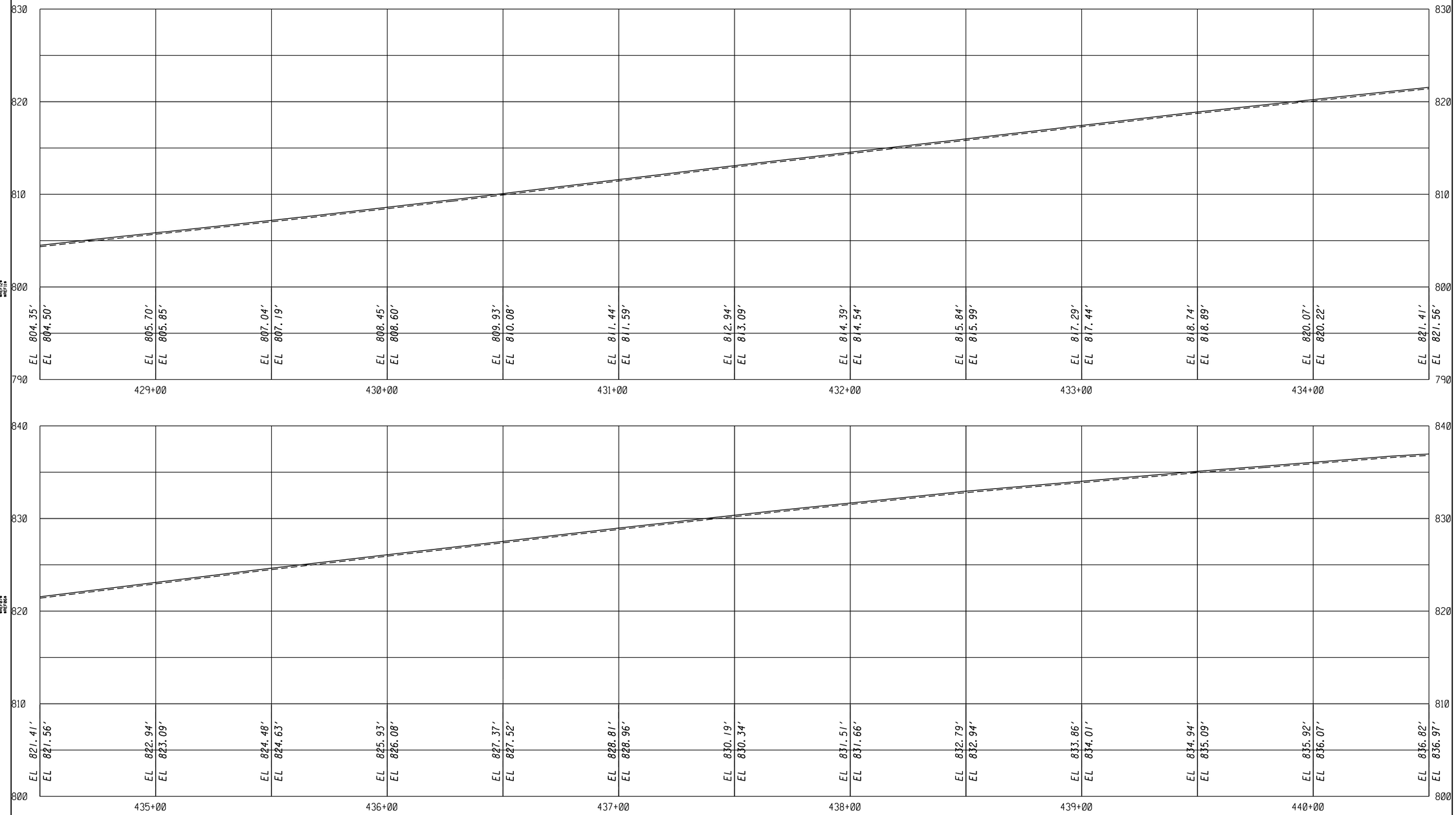
MAINLINE PROFILE

BOLTON RD AT MARIETTA BLVD

DRAWING No. 15-01

GR220E

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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1" = 20' HORIZ.
1" = 5' VERT.

REVISION DATES		

CITY OF ATLANTA

OFFICE:

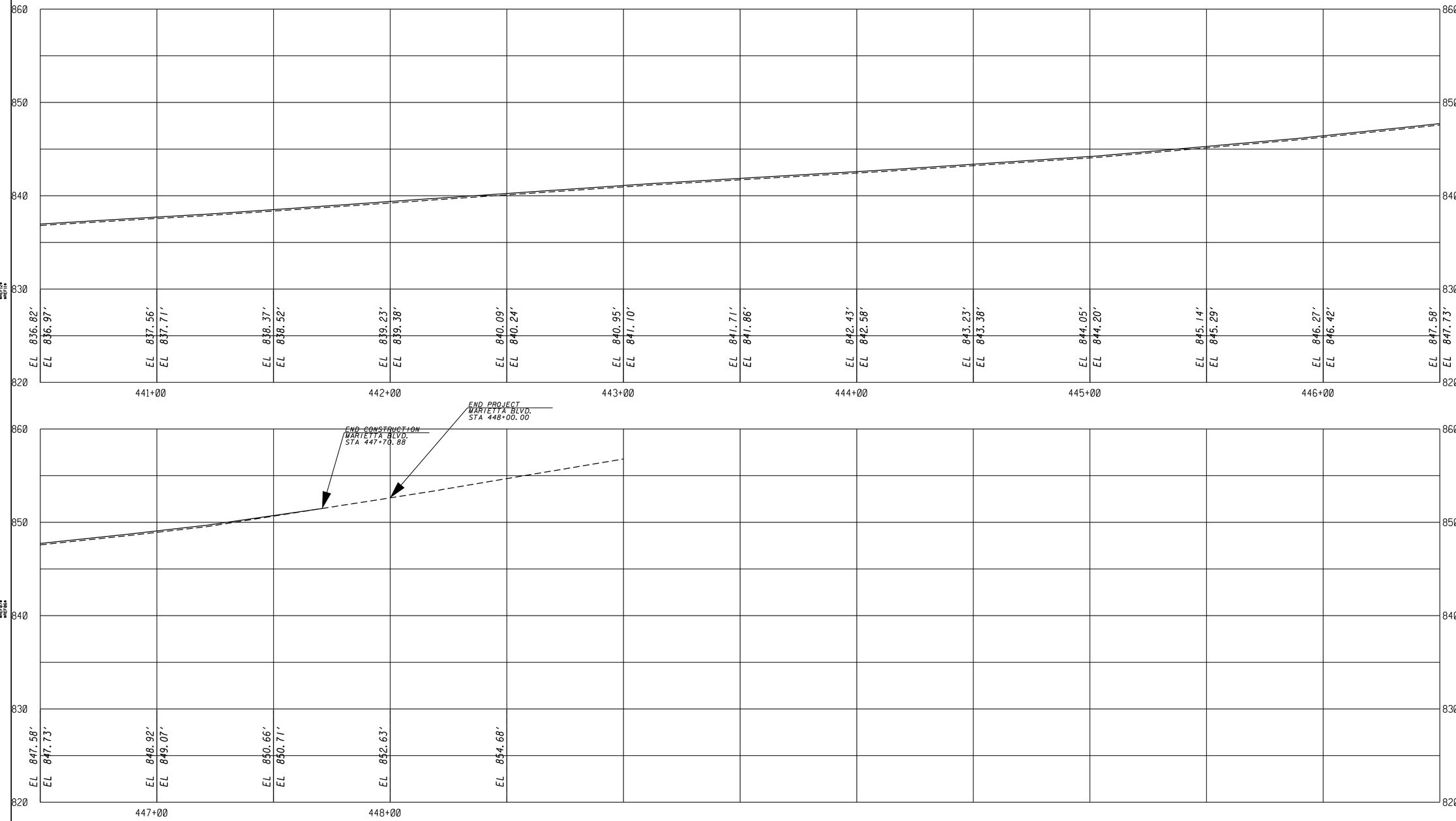
MAINLINE PROFILE

BOLTON RD AT MARIETTA BLVD

DRAWING No. 15-02

GR220E

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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1" = 20' HORIZ.
1" = 5' VERT.

REVISION DATES		

CITY OF ATLANTA

OFFICE:

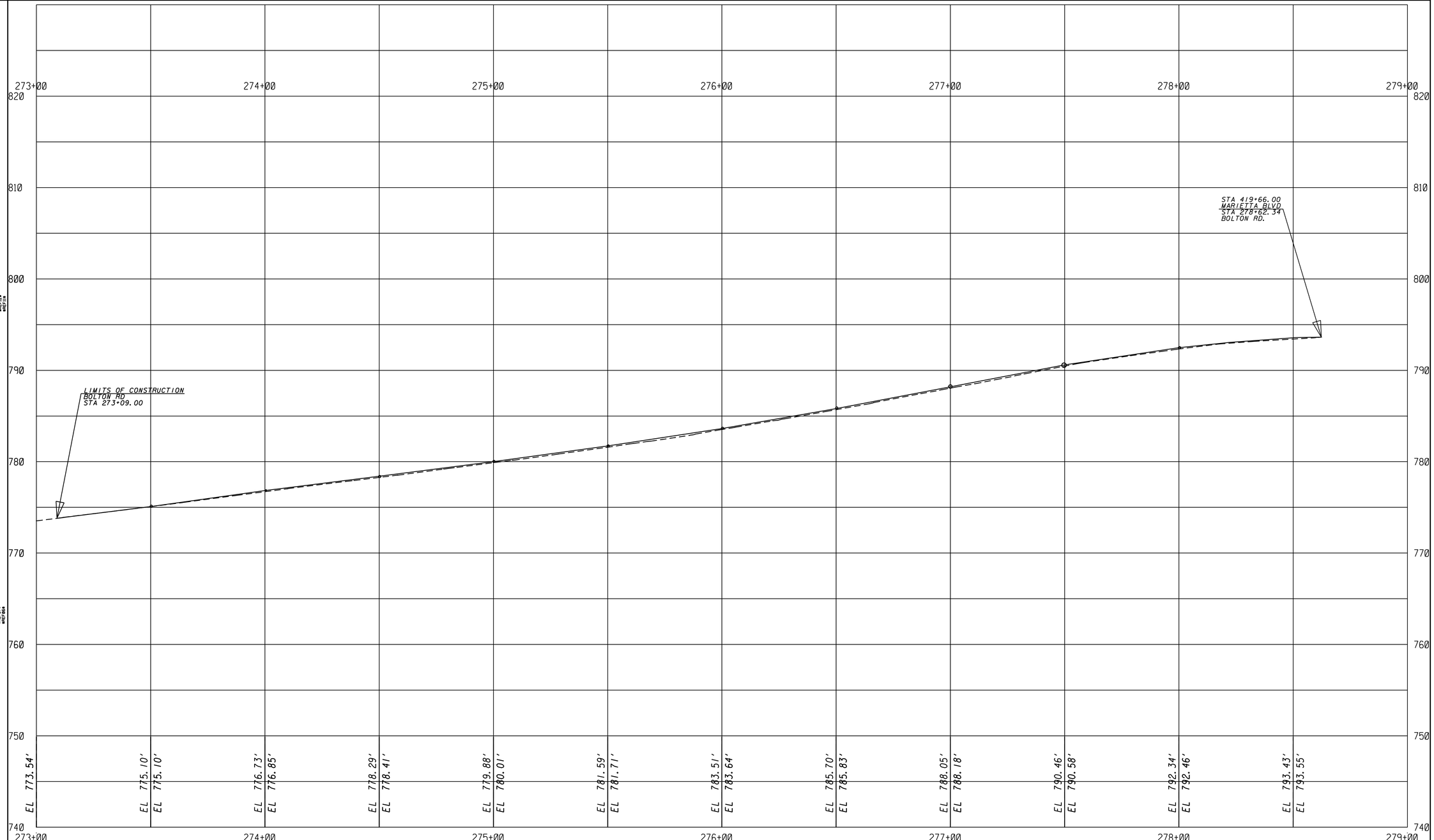
MAINLINE PROFILE

BOLTON RD AT MARIETTA BLVD

DRAWING No. 15-03

GR220E

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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REVISION DATES		

CITY OF ATLANTA

OFFICE:

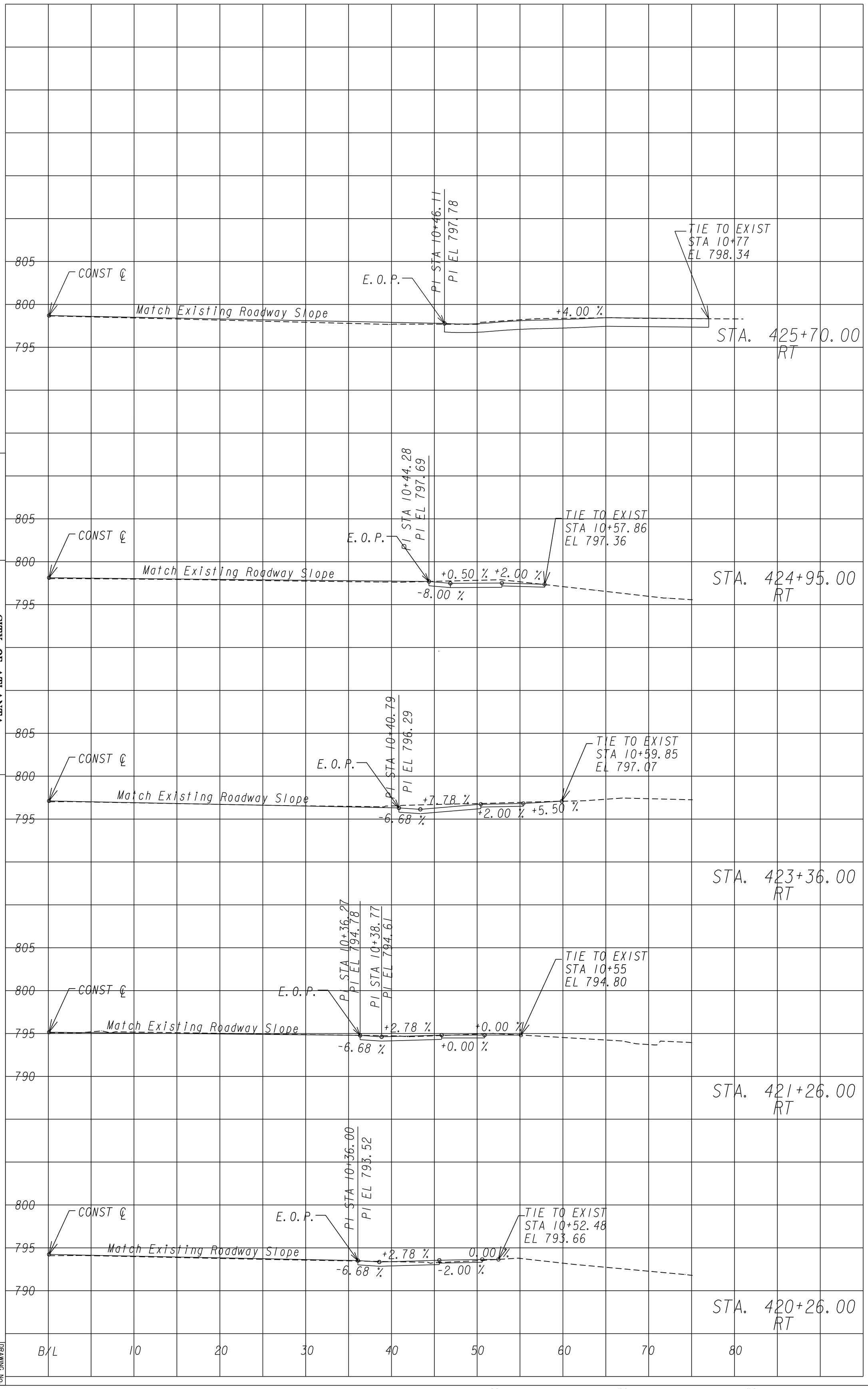
CROSSROAD PROFILE

BOLTON RD AT MARIETTA BLVD

DRAWING No. 16-01

G20E0G

$DATE$
DGN
PRF



SCALE: 1" = 5 FT HOR.
1" = 5 FT VERT.

CITY OF ATLANTA

DRIVEWAY PROFILES

DRAWING NO.
17-01

REVISION DATES	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	GA	CSSTP-0006-00(261)		

#REF08#
#REF07#
#REF06#
#REF05#
#REF16#
#REF15#
#REF14#
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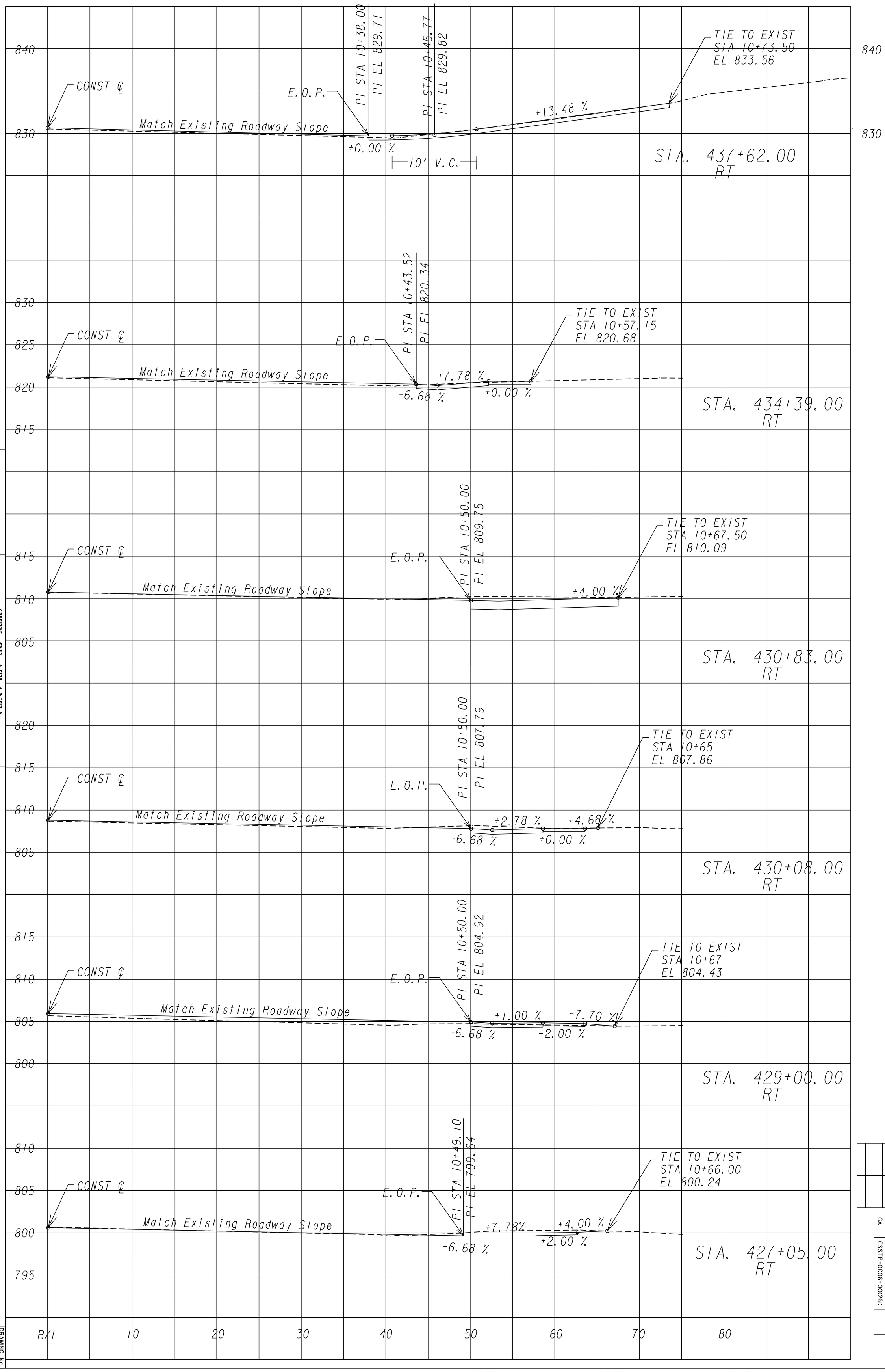
#REF29#

$DATE$
DGN
PRF



SCALE: 1" = 5 FT HOR.
1" = 5 FT VERT.

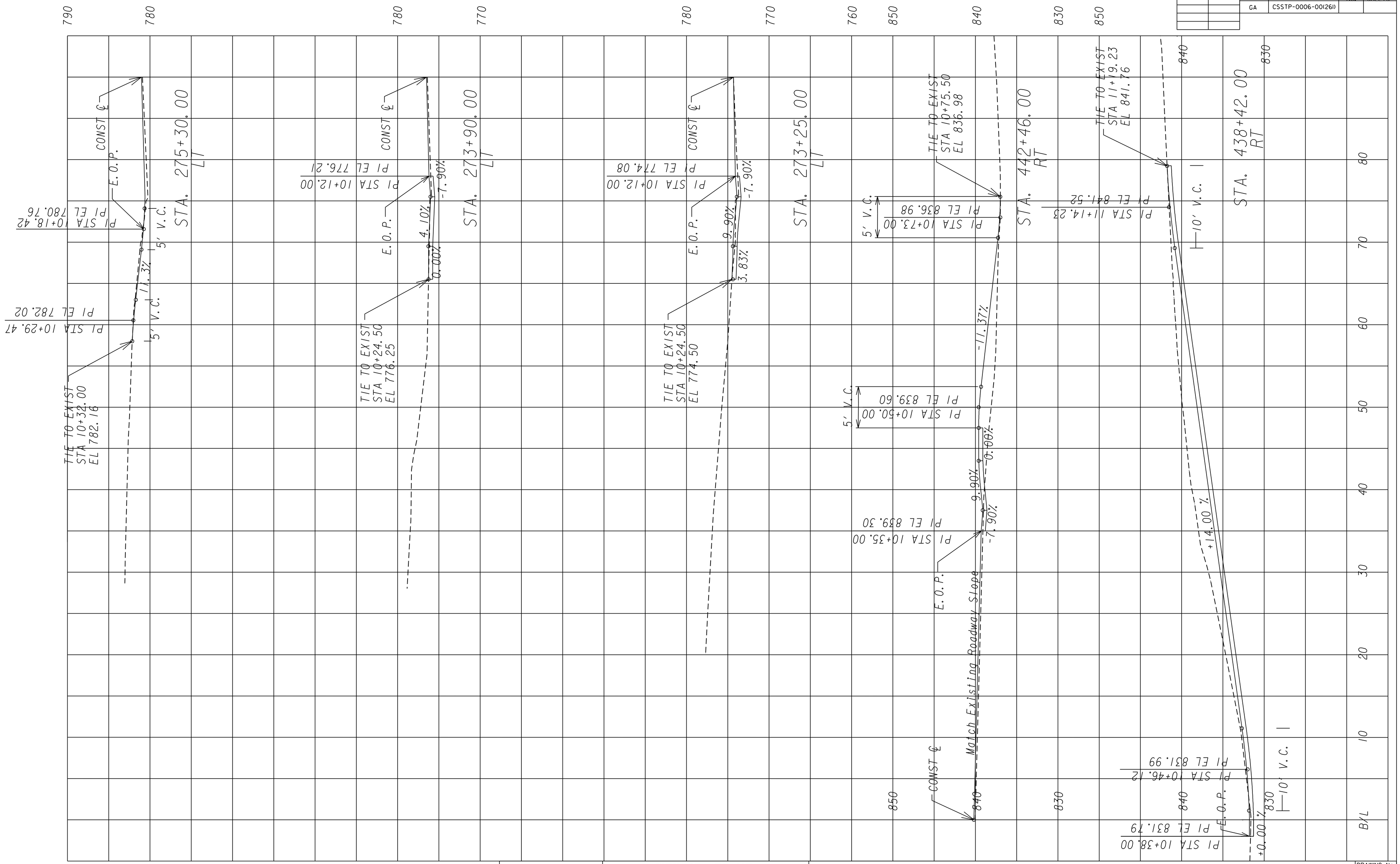
CITY OF ATLANTA

DRIVEWAY PROFILES

DRAWING No. 17-02

REVISION DATES	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	GA	CSSTP-0006-00(261)		

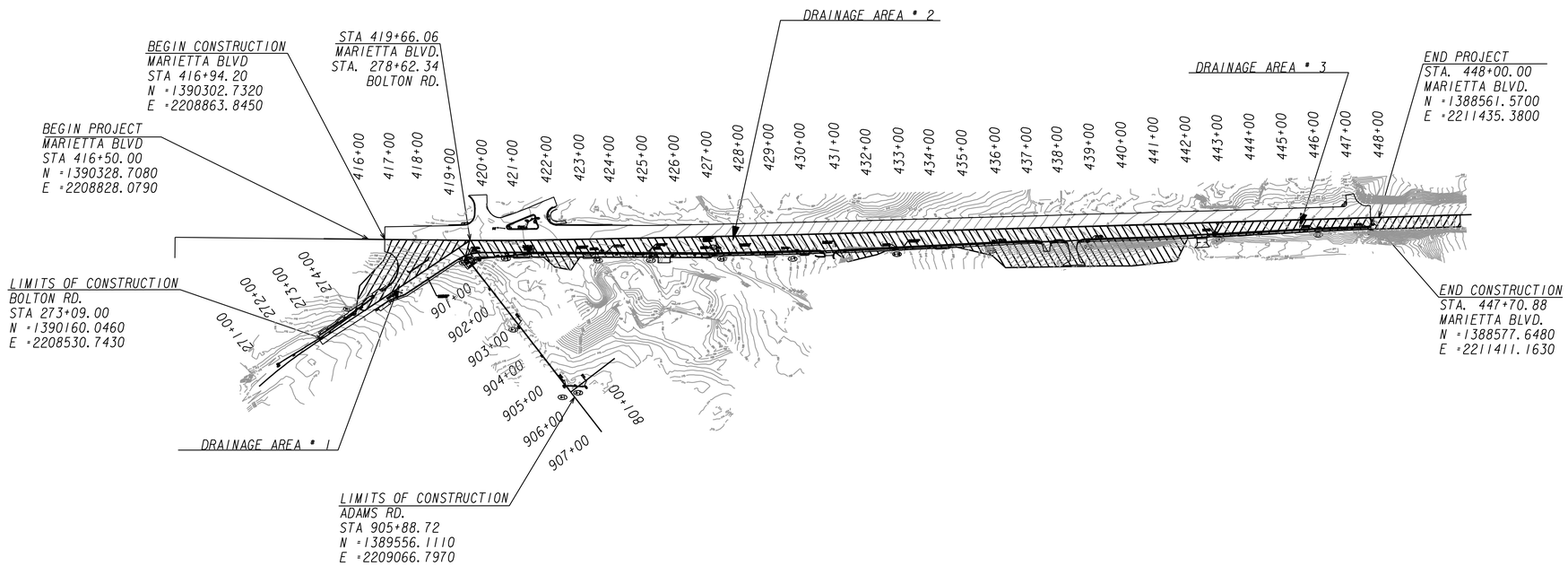
REVISION DATES	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	GA	CSSTP-0006-00(261)		



SCALE: 1" = 5 FT HOR. 1" = 5 FT VERT.	CITY OF ATLANTA	DRIVEWAY PROFILES	DRAWING No. 17-03

$DATE$
DGN
PRF

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



TOTAL PROJECT SIZE = 7.36 ACRES
TOTAL DISTURBED AREA = 7.36 ACRES

DRAINAGE AREA No.	STA.	EXISTING	PROPOSED	DRAINAGE AREA (ACRES)	Q (50)	Q (100)	V (50)	V (100)	EXIST C RUNOFF	POST-DEVELOPED C RUNOFF	RECEIVING WATER
1	274+50 LT (BOLTON RD)	--	18"	0.73	5.02	5.32	3.83	3.97	0.84	0.85	PROCTOR CREEK
2	905+89 RT (ADAMS DR)	18"	36"	4.11	55.51	58.39	9.25	9.50	0.75	0.79	PROCTOR CREEK
3	442+81 RT (MARIETTA BLVD)	--	18"	0.69	8.02	8.40	7.09	7.20	0.83	0.93	PROCTOR CREEK

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SCALE IN FEET
0 200 400 800

REVISION DATES

CITY OF ATLANTA

OFFICE:

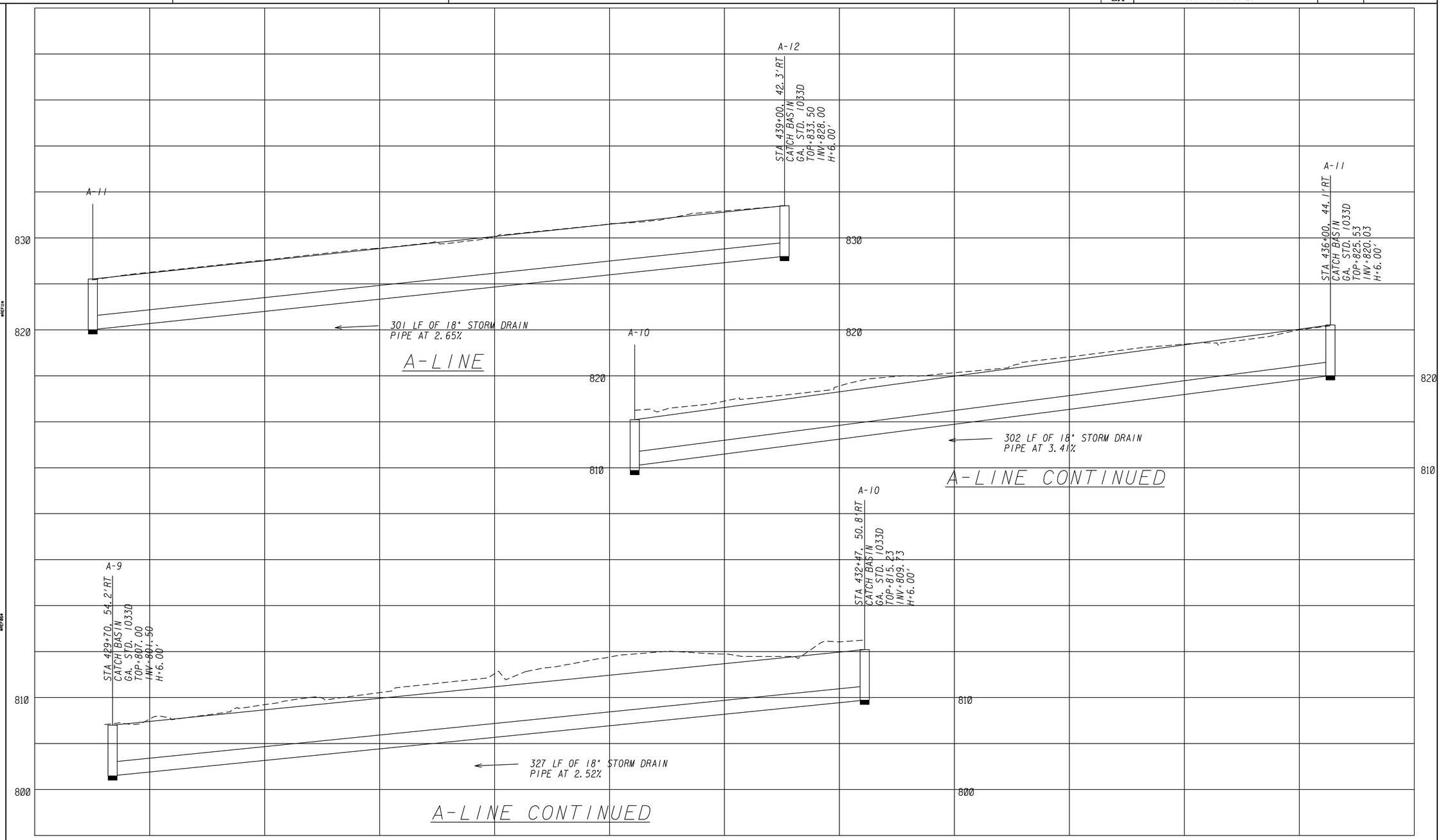
DRAINAGE AREA MAP

FULTON COUNTY
BOTON RD AT MARIETTA BLVD

DRAWING No. 21-01

3/1/2007 GPLN

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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SCALE:

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

REVISION DATES		

CITY OF ATLANTA

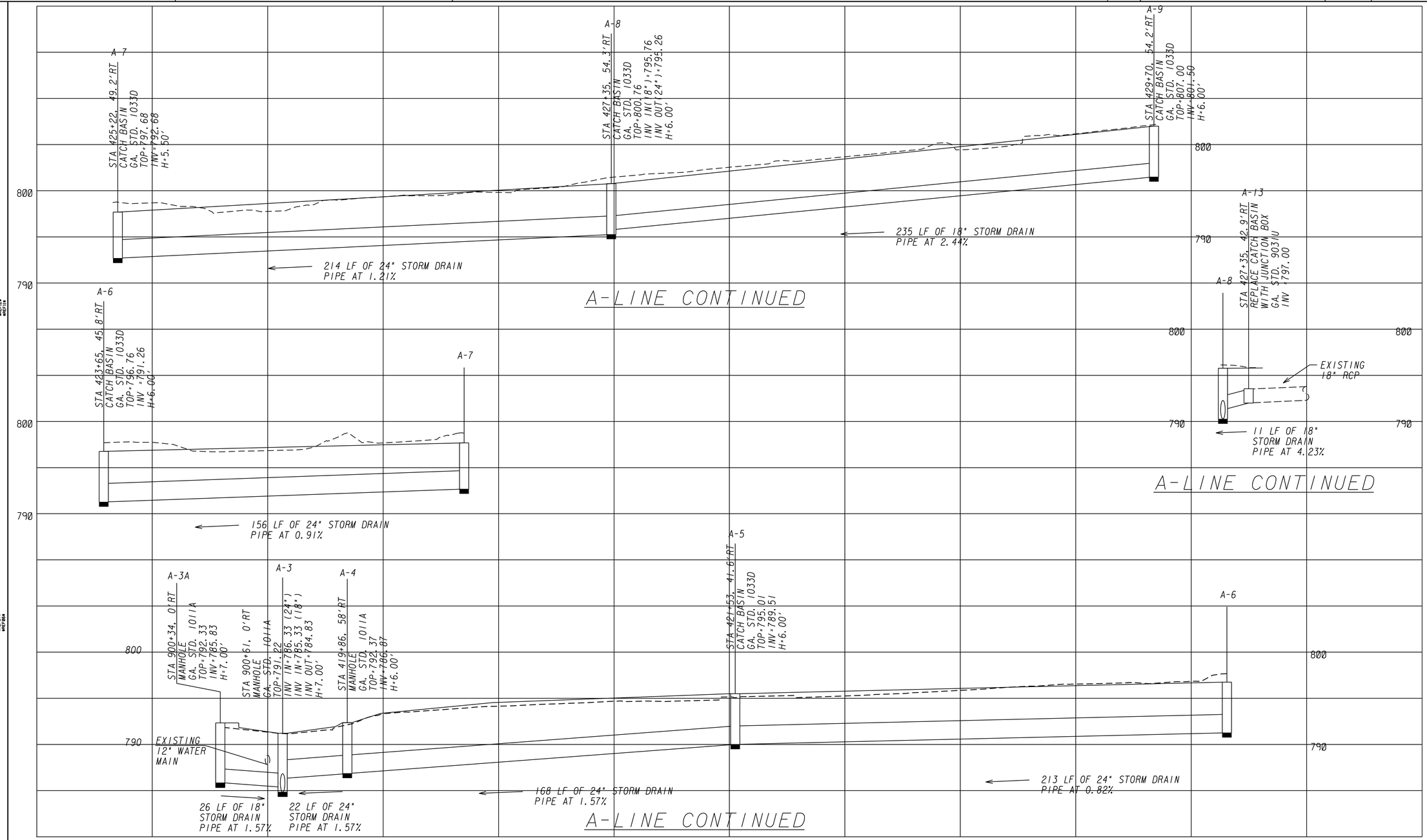
OFFICE:

DRAINAGE PROFILE

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 22-01

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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

REVISION DATES		

CITY OF ATLANTA

OFFICE:

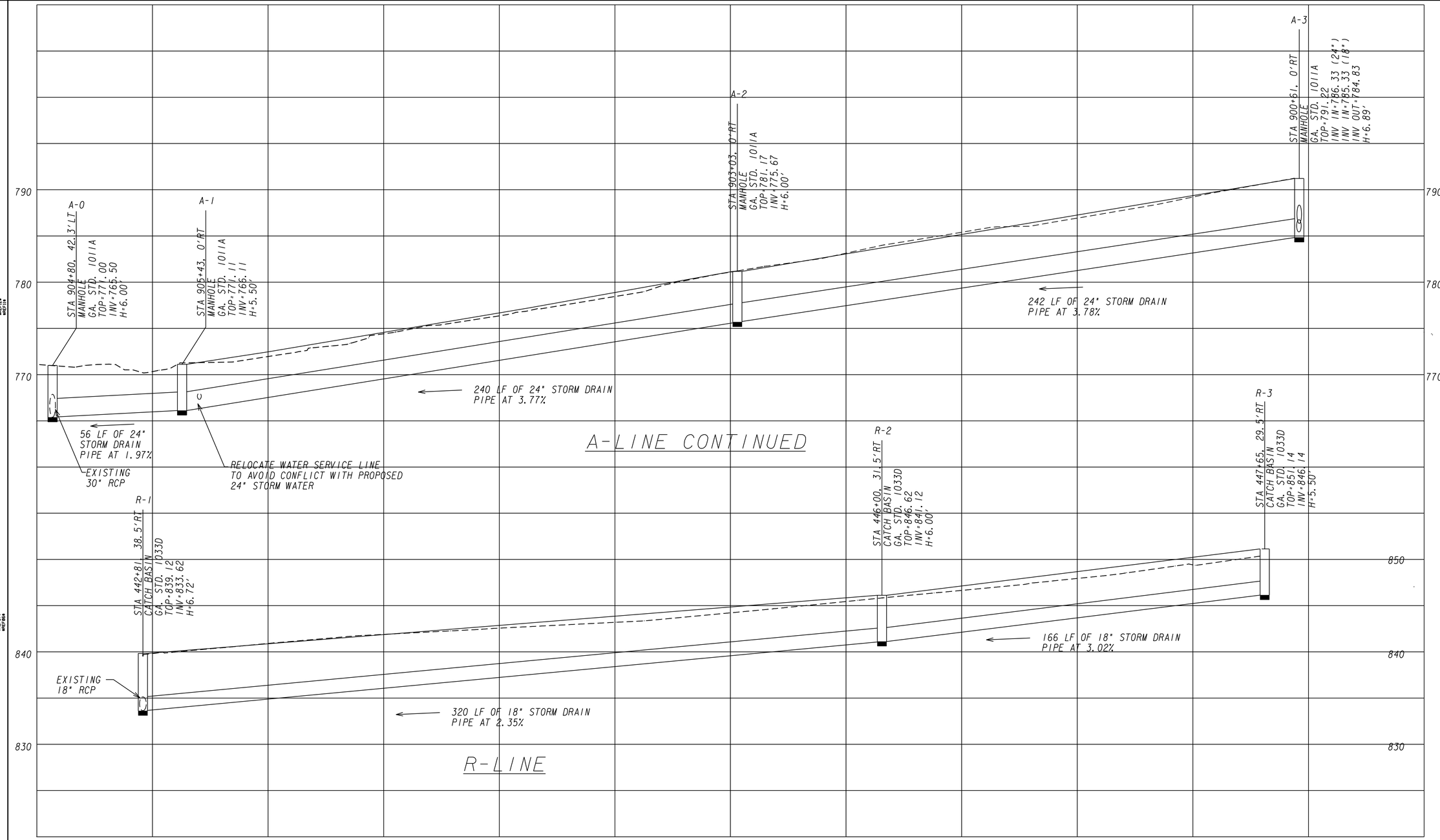
DRAINAGE PROFILE

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No.
22-02

G20EOG

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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SCALE:
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REVISION DATES		

CITY OF ATLANTA

OFFICE:

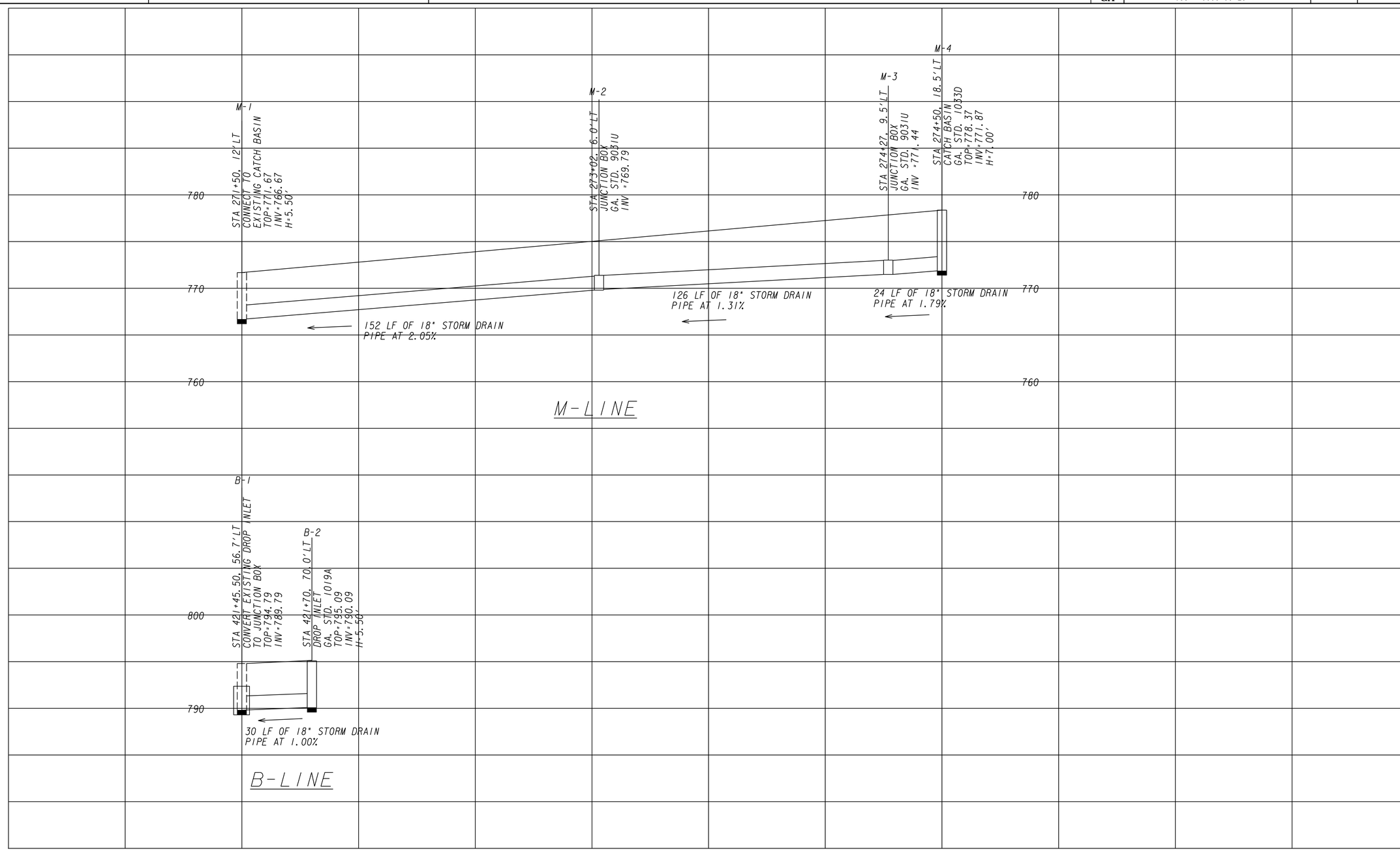
DRAINAGE PROFILE

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 22-03

G20EDG

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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SCALE:

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

REVISION DATES		

CITY OF ATLANTA

OFFICE:

DRAINAGE PROFILE

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 22-04

G20E0G

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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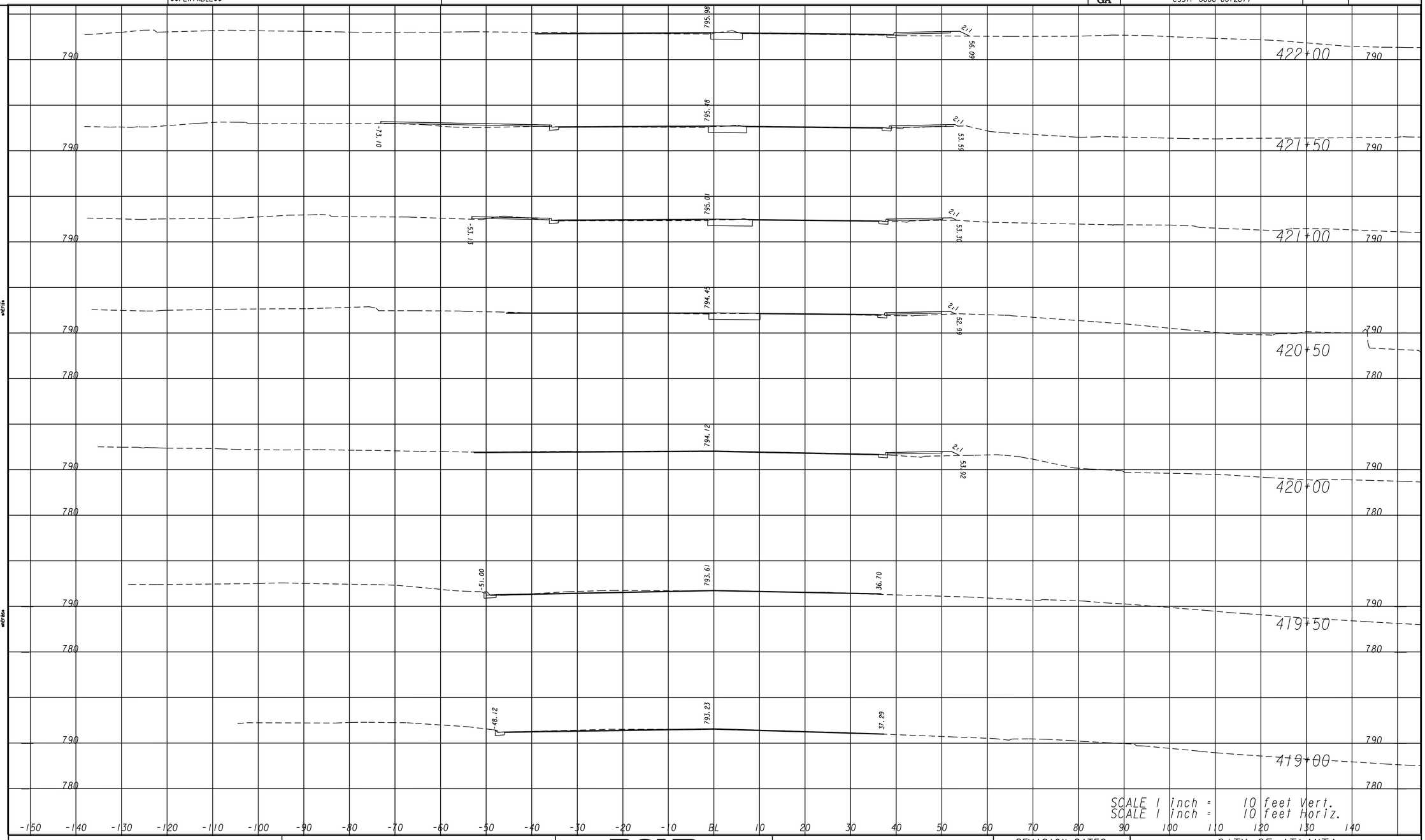

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CITY OF ATLANTA

OFFICE:

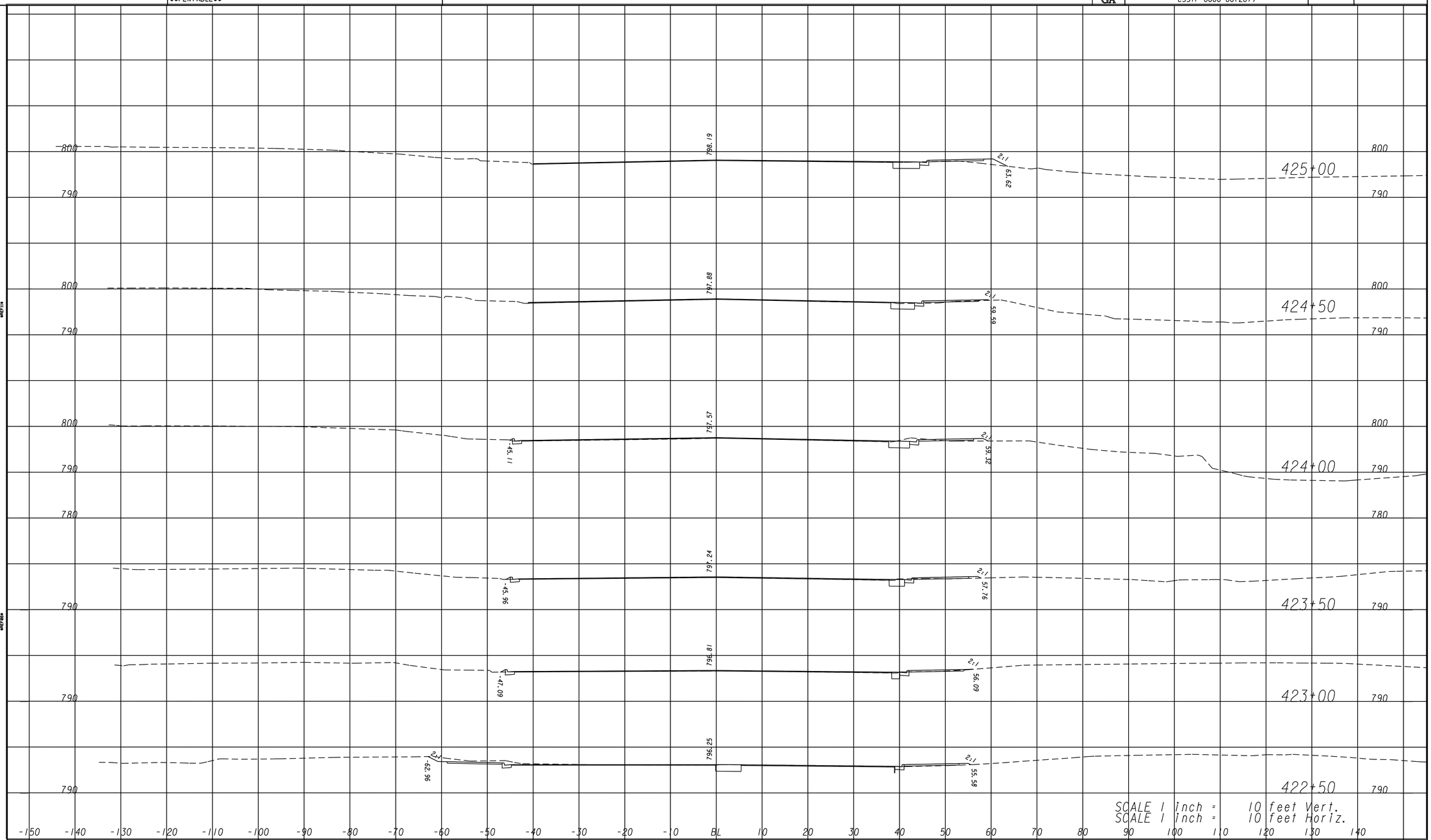
EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-01

SUXSEW

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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REVISION DATES

CITY OF ATLANTA

OFFICE:

EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-02

SUXSEW

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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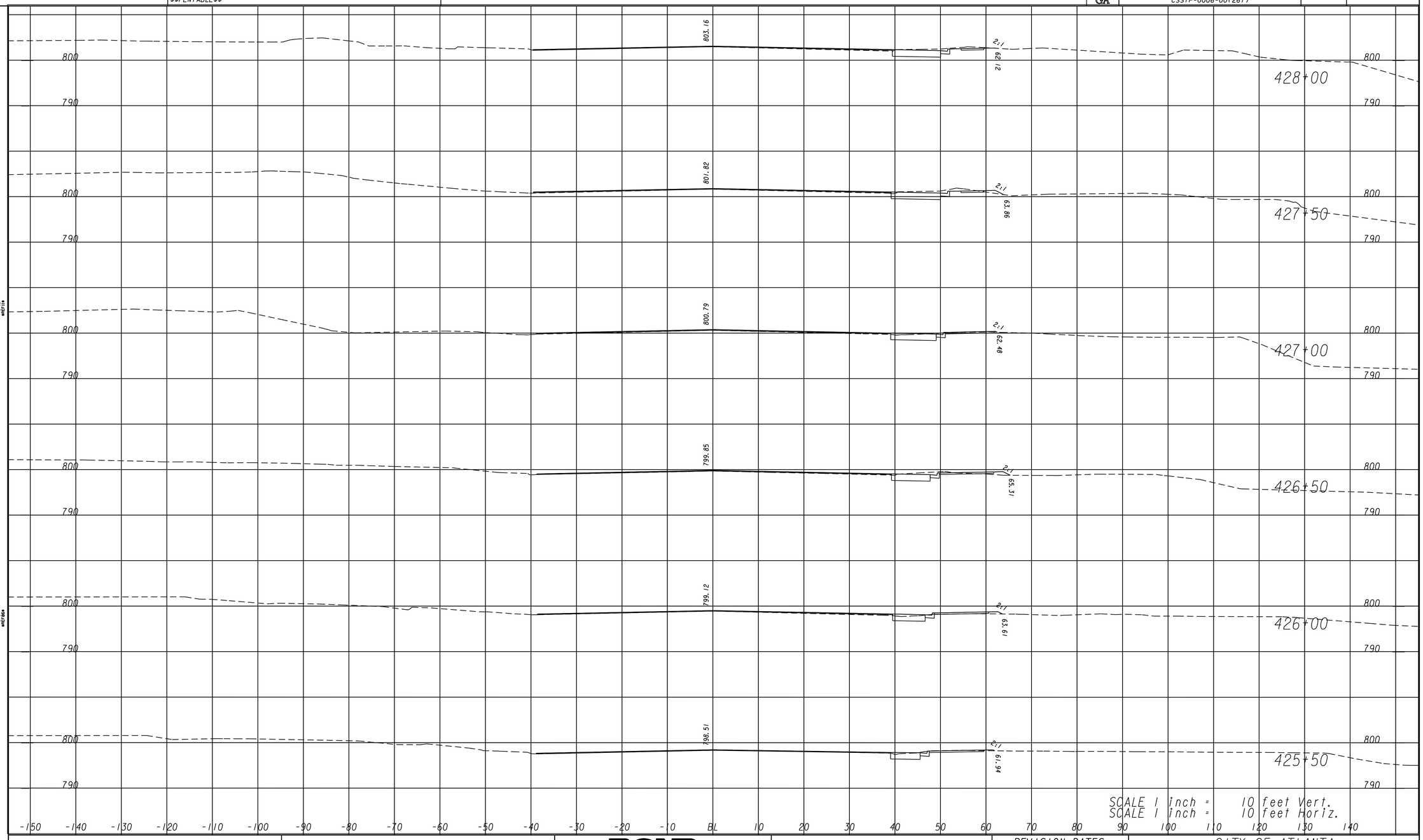

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CITY OF ATLANTA

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EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-03

SUXSEW

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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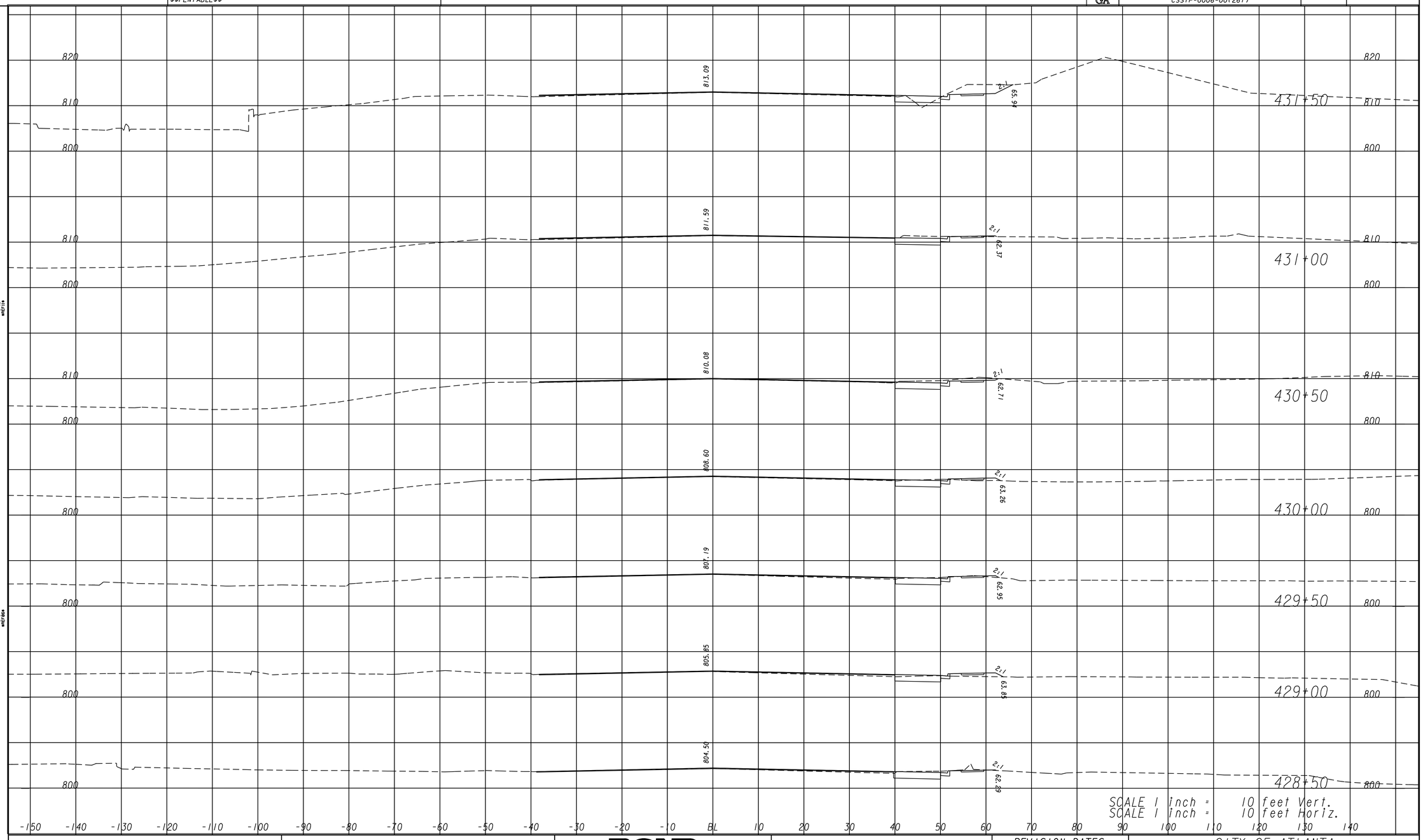

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REVISION DATES

CITY OF ATLANTA

OFFICE:

EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-04

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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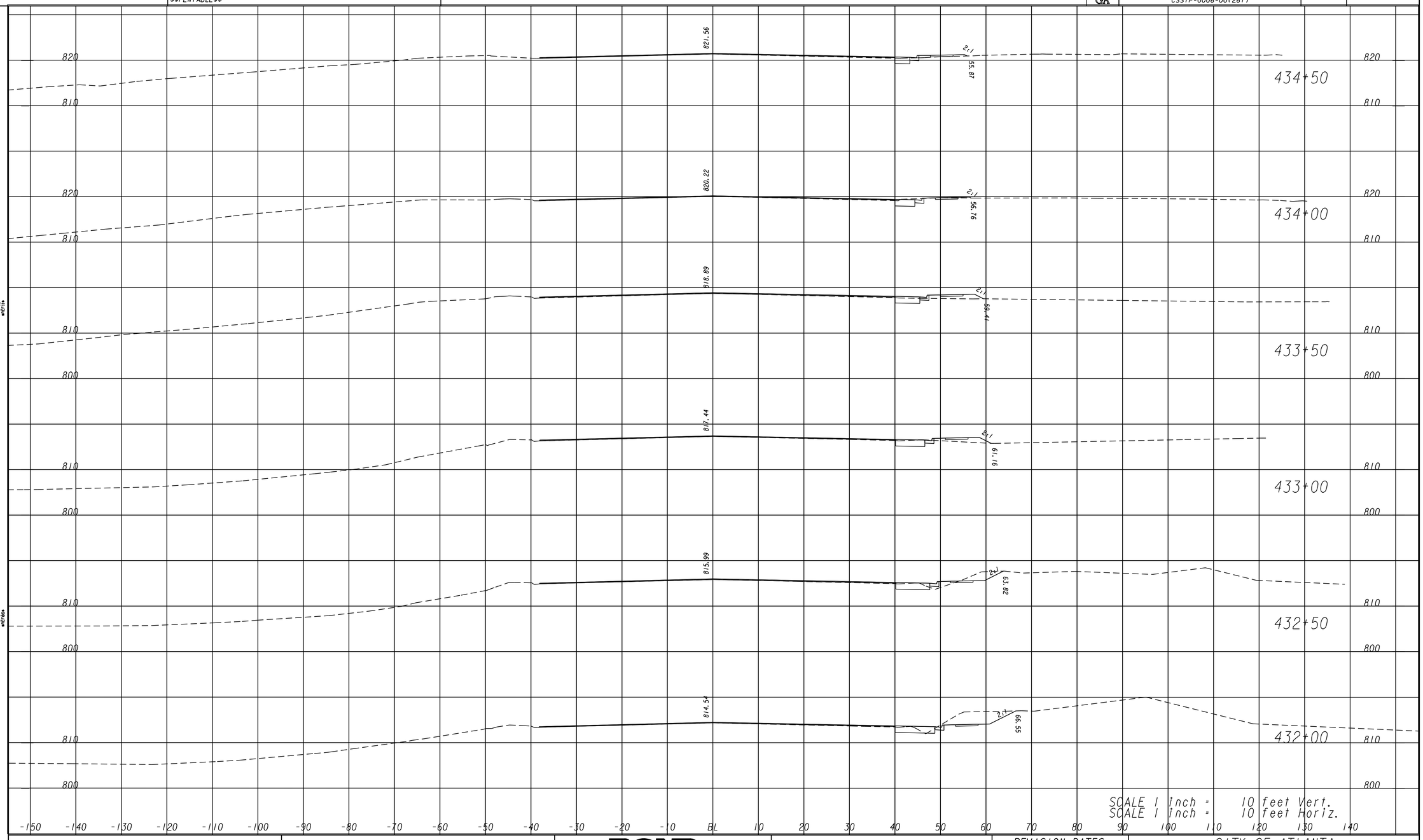

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CITY OF ATLANTA

OFFICE:

EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-05

SUXSEW

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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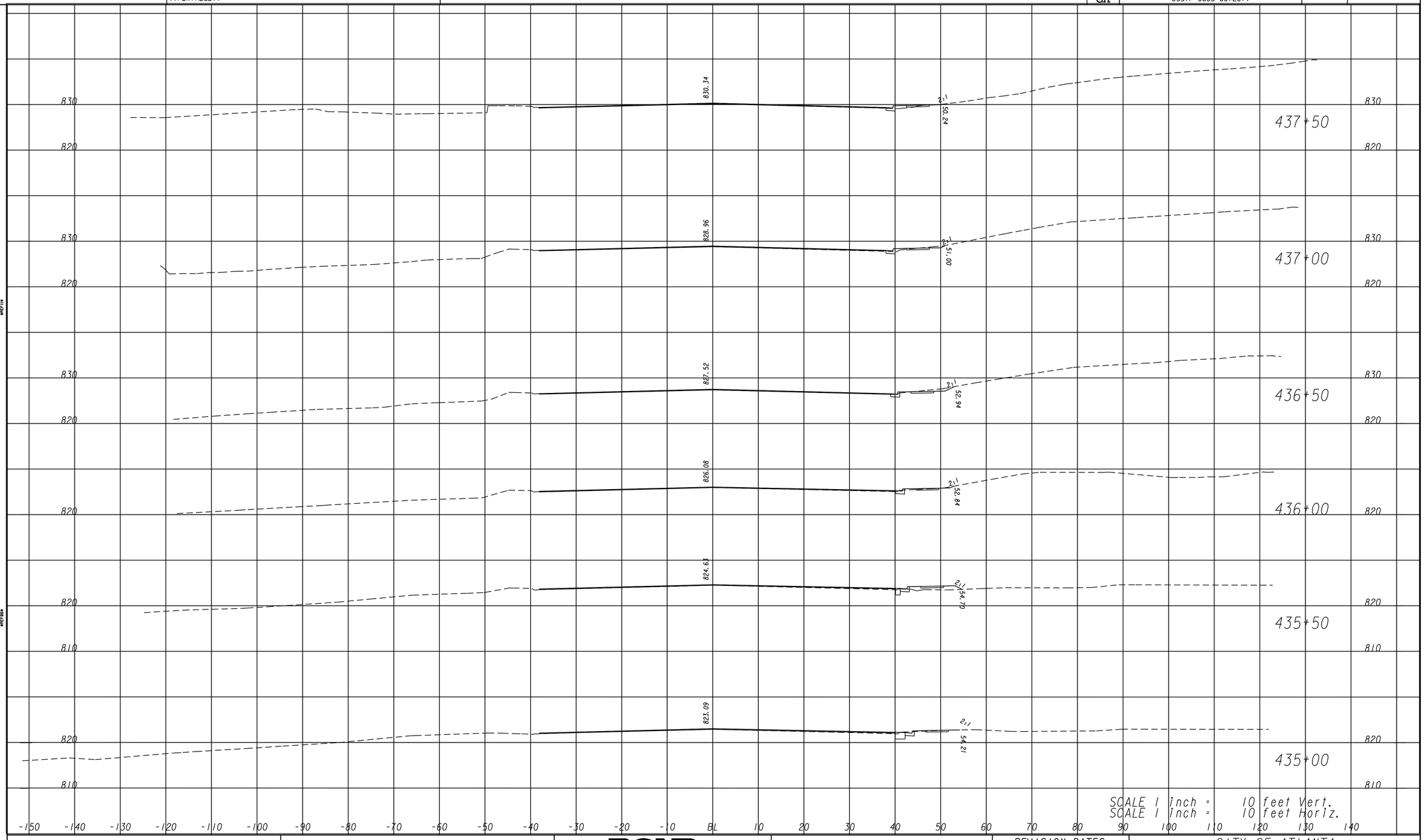

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CITY OF ATLANTA

OFFICE:

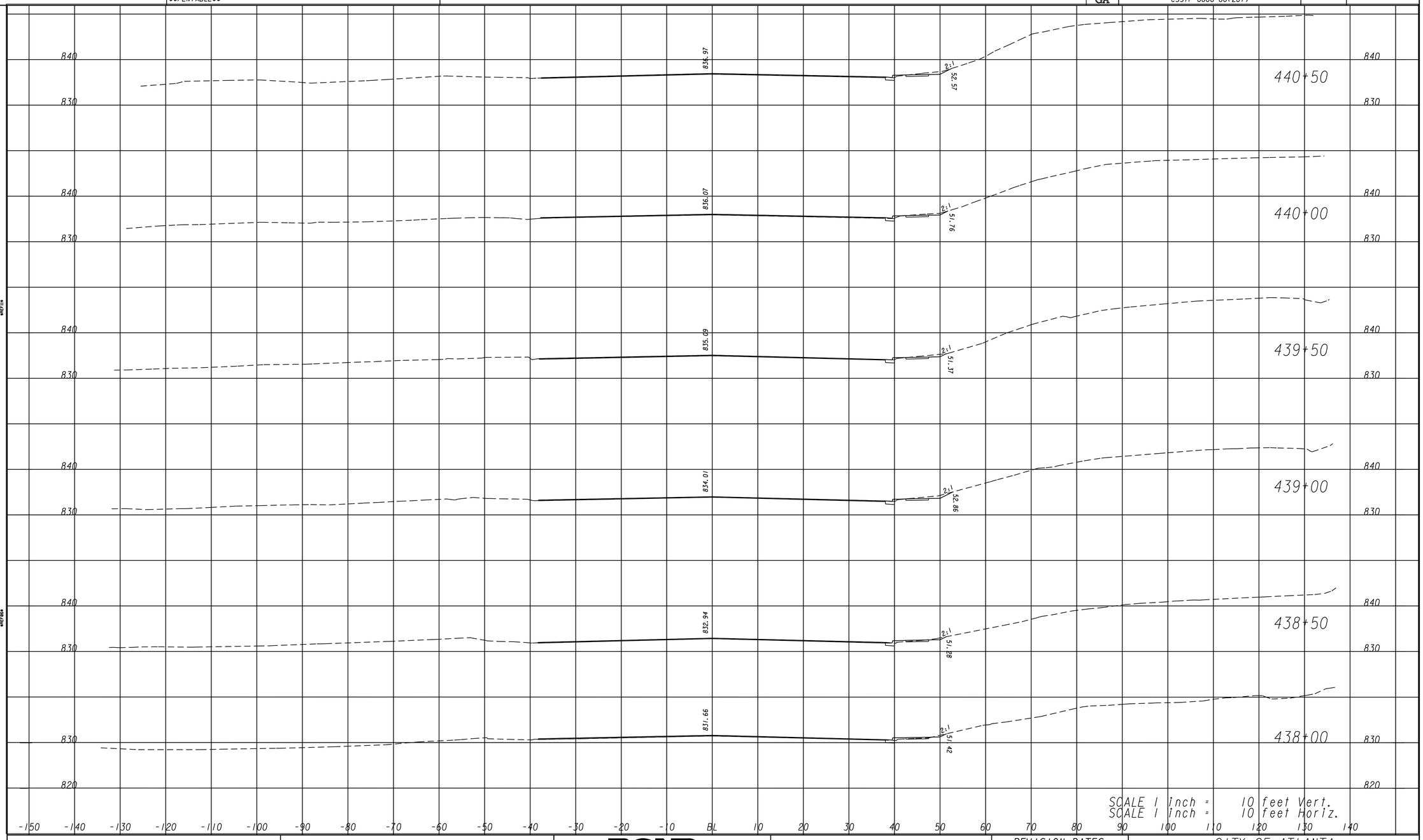
EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-06

SUXSEW

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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CITY OF ATLANTA

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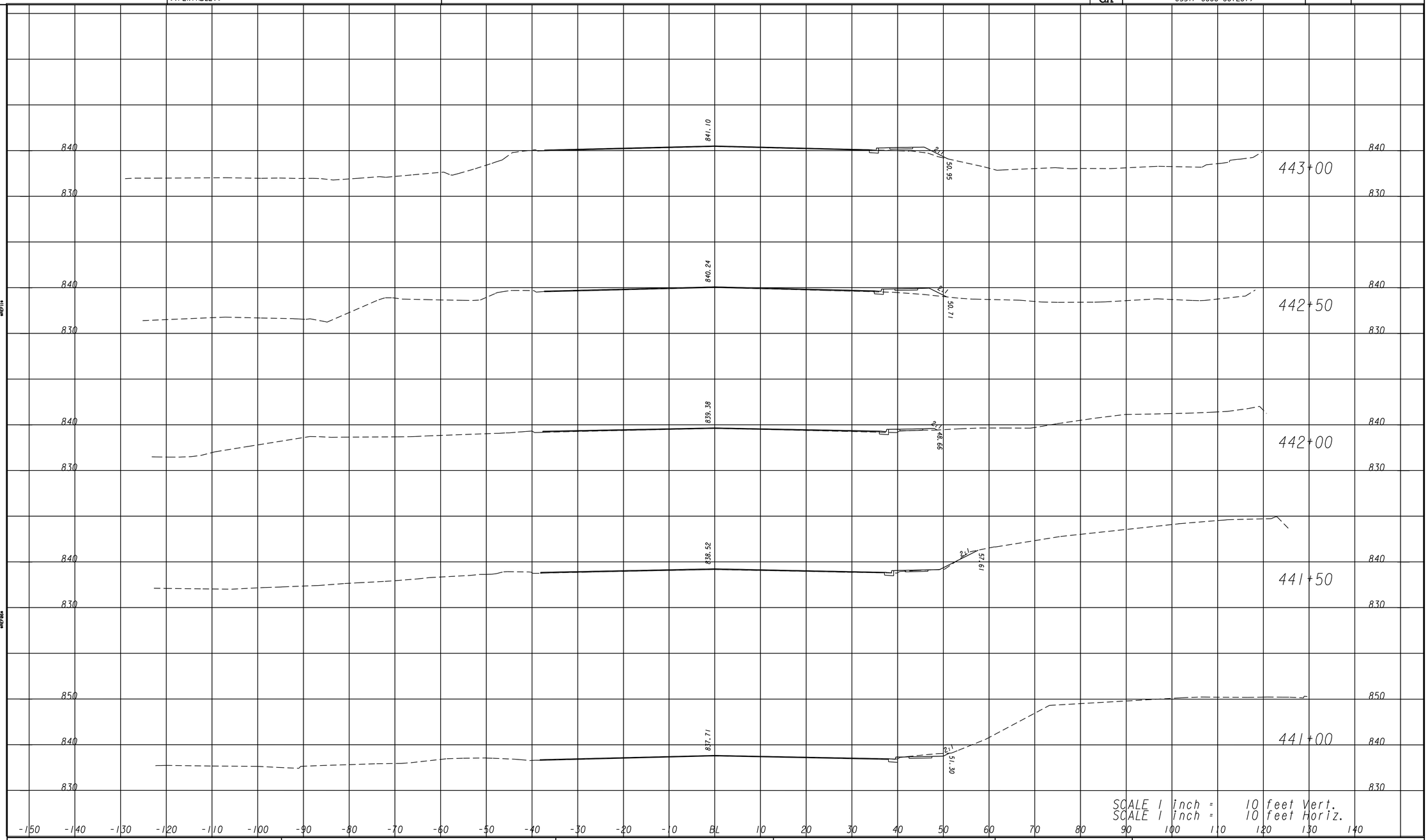
EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-07

SUXSEW

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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CITY OF ATLANTA

OFFICE:

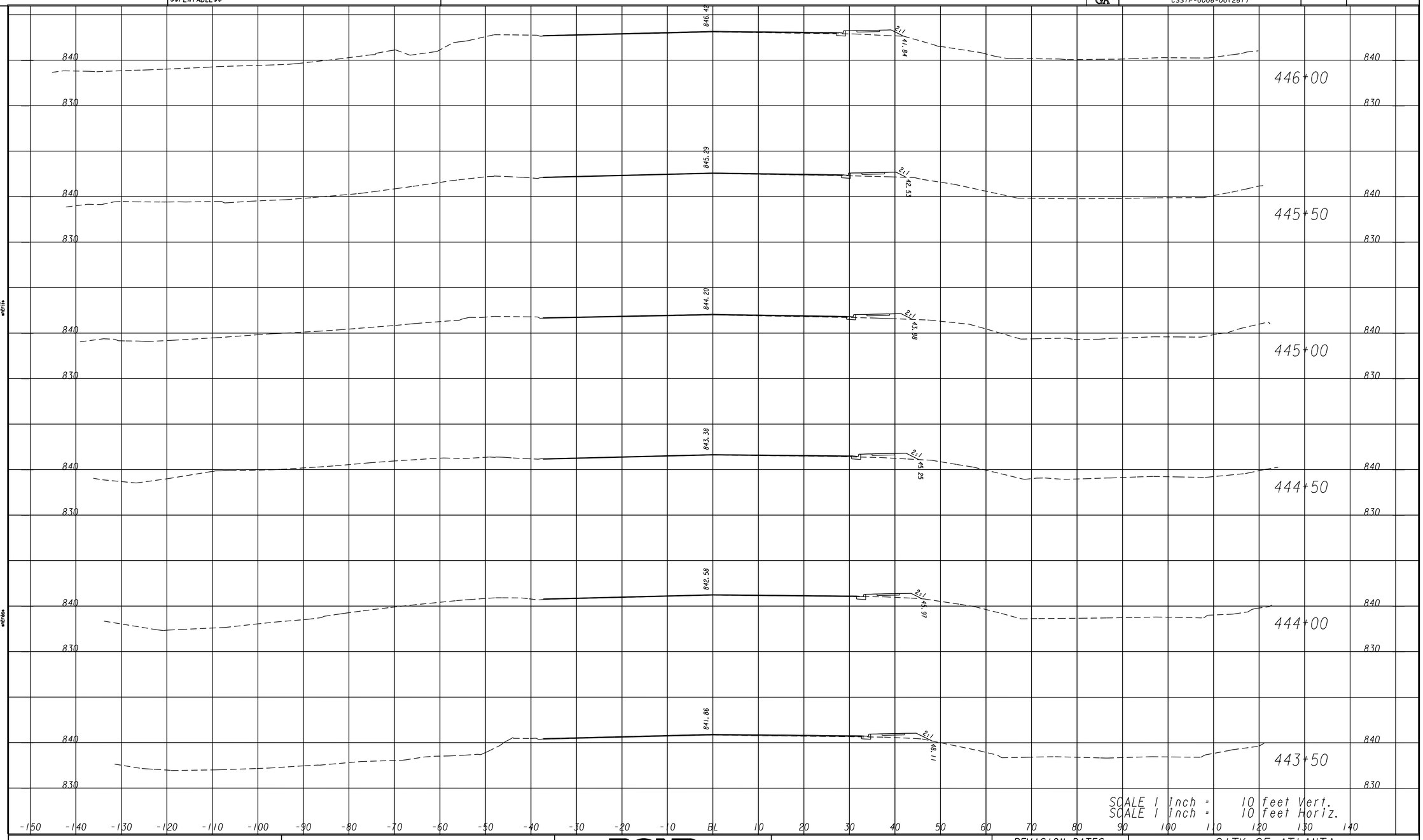
EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-08

SUXSEW

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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REVISION DATES

CITY OF ATLANTA

OFFICE:

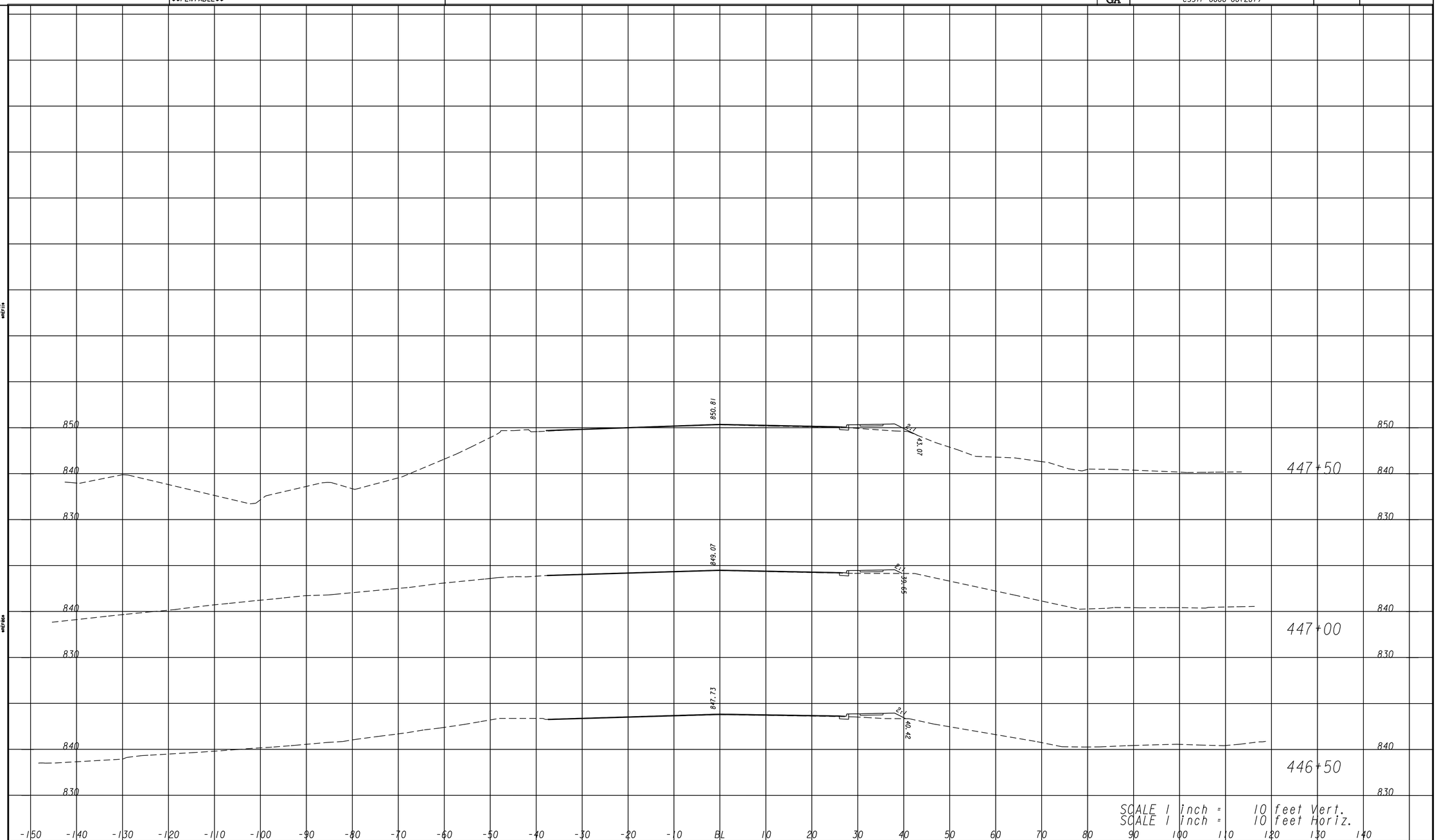
EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-09

SUXSEW

DATETIME$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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REVISION DATES

CITY OF ATLANTA

OFFICE:

EARTHWORK CROSS SECTIONS

MARIETTA BLVD

DRAWING No. 23-10

SUXSEW

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		

EXISTING OVERHEAD	OVERHEAD TO BE REMOVED	PROPOSED OVERHEAD	TYPE OF UTILITY
E	E	E	ELECTRIC
E-T	E-T	E-T	ELECTRIC/TELECOMMUNICATIONS
E-TV	E-TV	E-TV	ELECTRIC/CABLE TV
E-TC	E-TC	E-TC	ELECTRIC/TRAFFIC CONTROL
E-T-TV	E-T-TV	E-T-TV	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
E-T-TV-TC	E-T-TV-TC	E-T-TV-TC	ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
E-TV-TC	E-TV-TC	E-TV-TC	ELECTRIC/CABLE TV/TRAFFIC CONTROL
E-T-TC	E-T-TC	E-T-TC	ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
GW	GW	GW	GUY WIRE
T	T	T	TELECOMMUNICATIONS
T-TC	T-TC	T-TC	TELECOMMUNICATIONS/TRAFFIC CONTROL
T-TV-TC	T-TV-TC	T-TV-TC	TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
T-TV	T-TV	T-TV	TELECOMUNICATIONS/CABLE TV
TV	TV	TV	CABLE TV
TV-TC	TV-TC	TV-TC	CABLE TV/TRAFFIC CONTROL
TC	TC	TC	TRAFFIC CONTROL

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

UTILITY LEGEND

UTILITY CELLS

EXISTING	PROPOSED	TEMPORARY	
E	E	E	ELECTRIC MANHOLE
H	H	H	HAND HOLE
E	E	E	TRANSFORMER
E	E	E	ELECTRIC METER
			UTILITY POLE/GUY POLE
			LIGHT POLE
			GUY ANCHOR
E	E	E	ELECTRIC BOX
M	M	M	MARKER
T	T	T	TELECOMMUNICATIONS MANHOLE
T	T	T	TELECOMMUNICATIONS PEDESTAL
X	X	X	SPLICE BOX
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")
			CABINET
			PHONE BOOTH
			CABLE TV PEDESTAL
TV	TV	TV	CABLE TV MANHOLE
W	W	W	WATER VALVE
W	W	W	WATER METER
W	W	W	WATER MANHOLE
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE

EXISTING	PROPOSED	TEMPORARY	
W	W	W	WELL
W	W	W	WATER VAULT
W	W	W	WATER VALVE MARKER
			STAND PIPE
			CLEANOUT
SS	SS	SS	SANITARY SEWER MANHOLE
ARV	ARV	ARV	AIR RELEASE VALVE
GT	GT	GT	GREASE TRAP
S	S	S	SANITARY SEWER FORCE MAIN VALVE
			VENT
G	G	G	GAS VALVE
G	G	G	GAS METER
G	G	G	GAS MANHOLE
GPR	GPR	GPR	GAS PRESSURE REGULATOR
G	G	G	GAS VAULT
GTS	GTS	GTS	GAS TEST STATION
P	P	P	PETROLEUM VALVE

MISC.	
LOS	LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
TH	TEST HOLE (QL-A ONLY)
EOI	END OF INFORMATION
	QUALITY LEVEL (QL) DELINEATION
123	POLE ID
A01	SANITARY SEWER MANHOLE (SSMH) ID

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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REVISION DATES

CITY OF ATLANTA

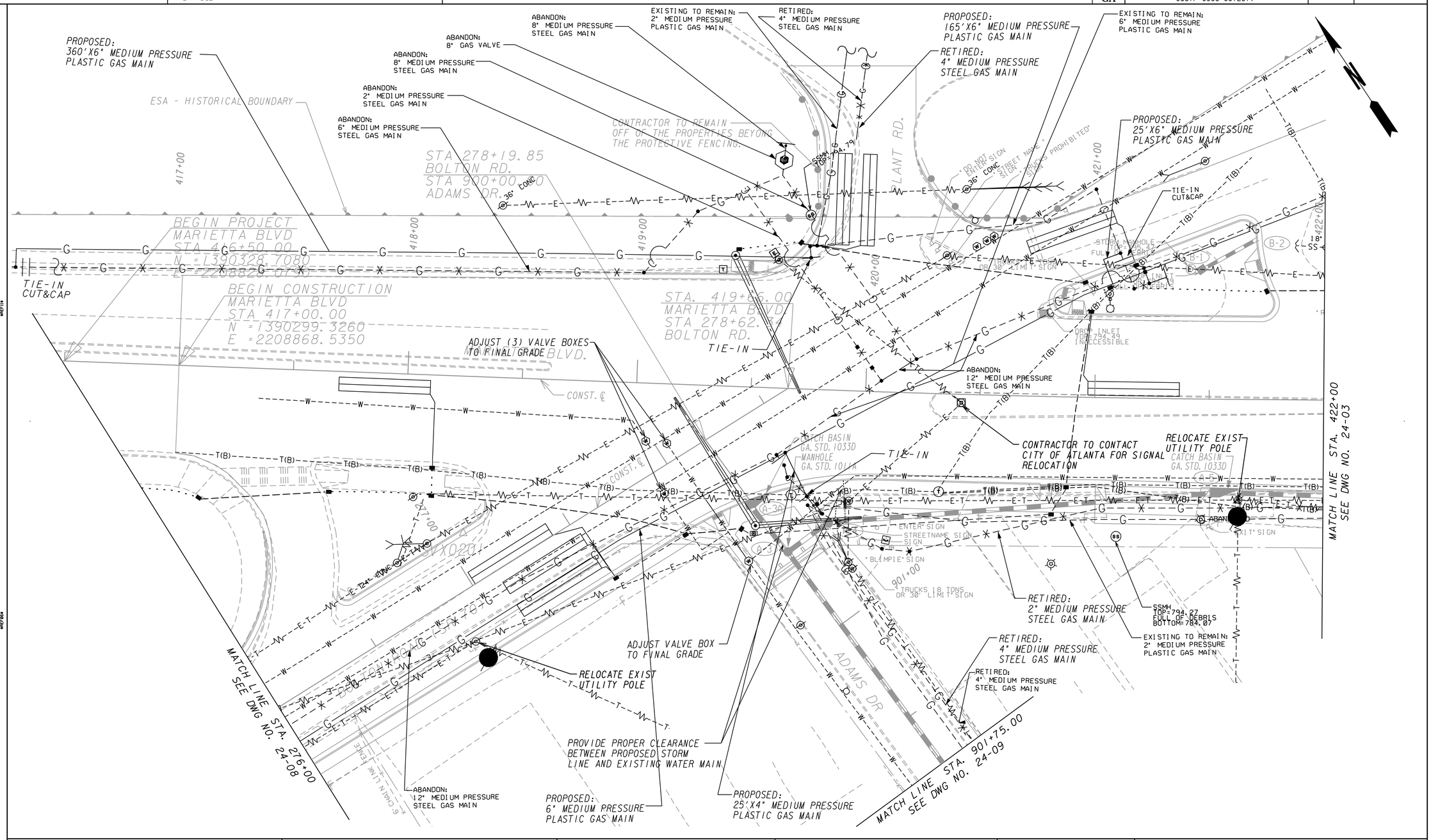
OFFICE:

UTILITY PLANS LEGEND
BOLTON RD AT MARIETTA BLVD

DRAWING No. 24-01

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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SCALE IN FEET
0 20 40 80

REVISION DATES		

CITY OF ATLANTA

OFFICE:

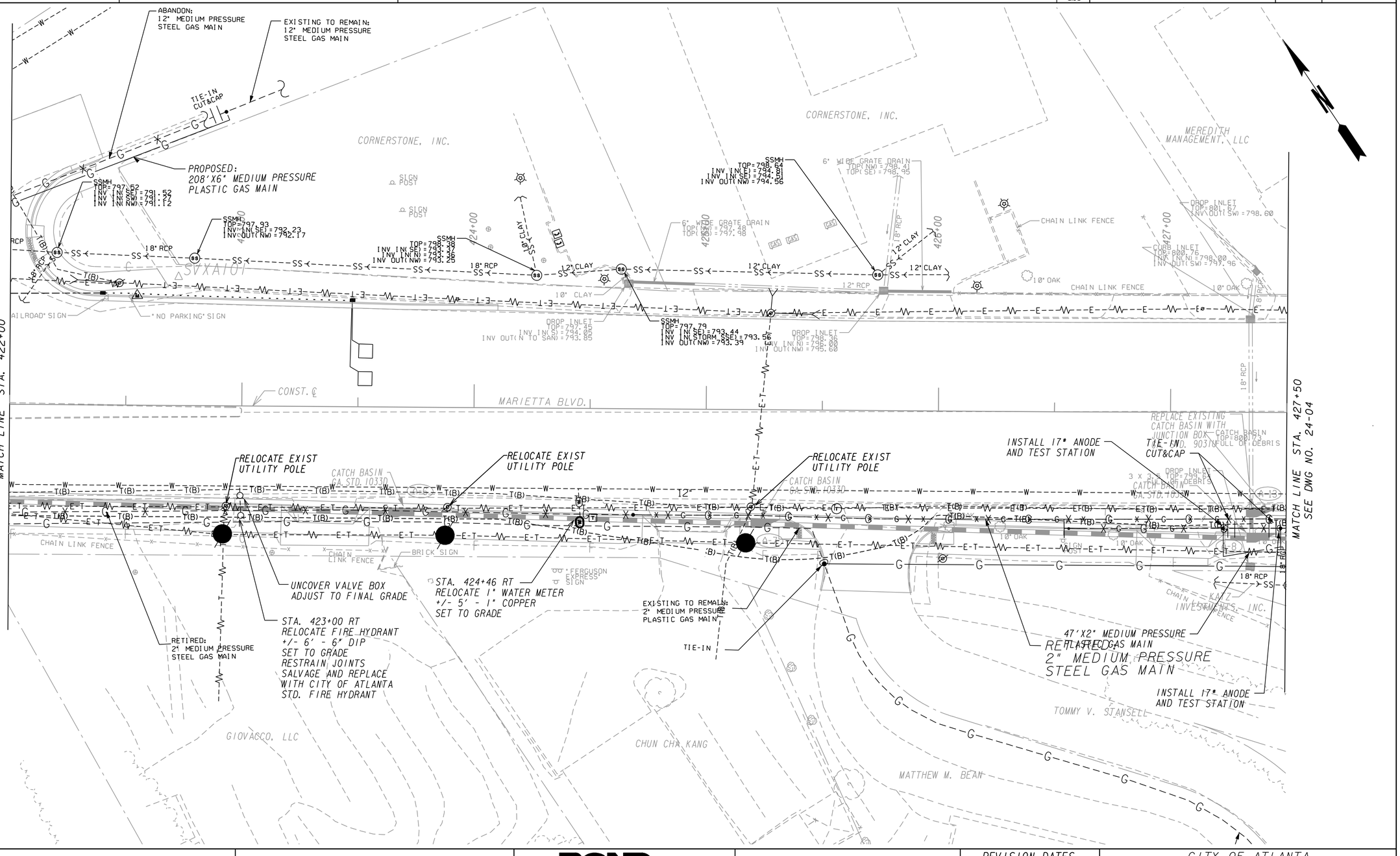
UTILITY PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 24-02

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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SCALE IN FEET
0 20 40 80

REVISION DATES		

CITY OF ATLANTA

OFFICE:

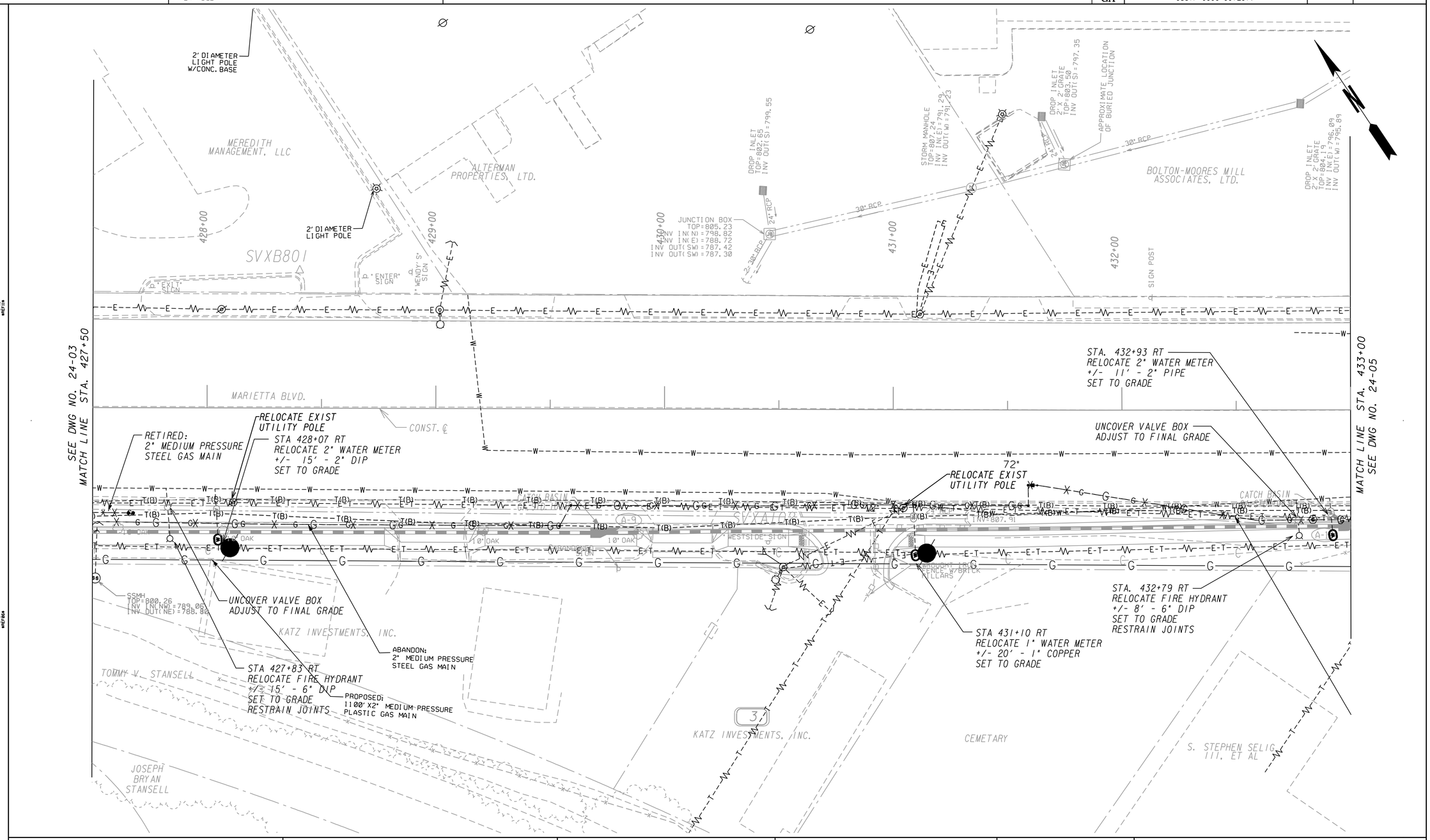
UTILITY PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 24-03

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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SCALE IN FEET
0 20 40 80

REVISION DATES		

CITY OF ATLANTA

OFFICE:

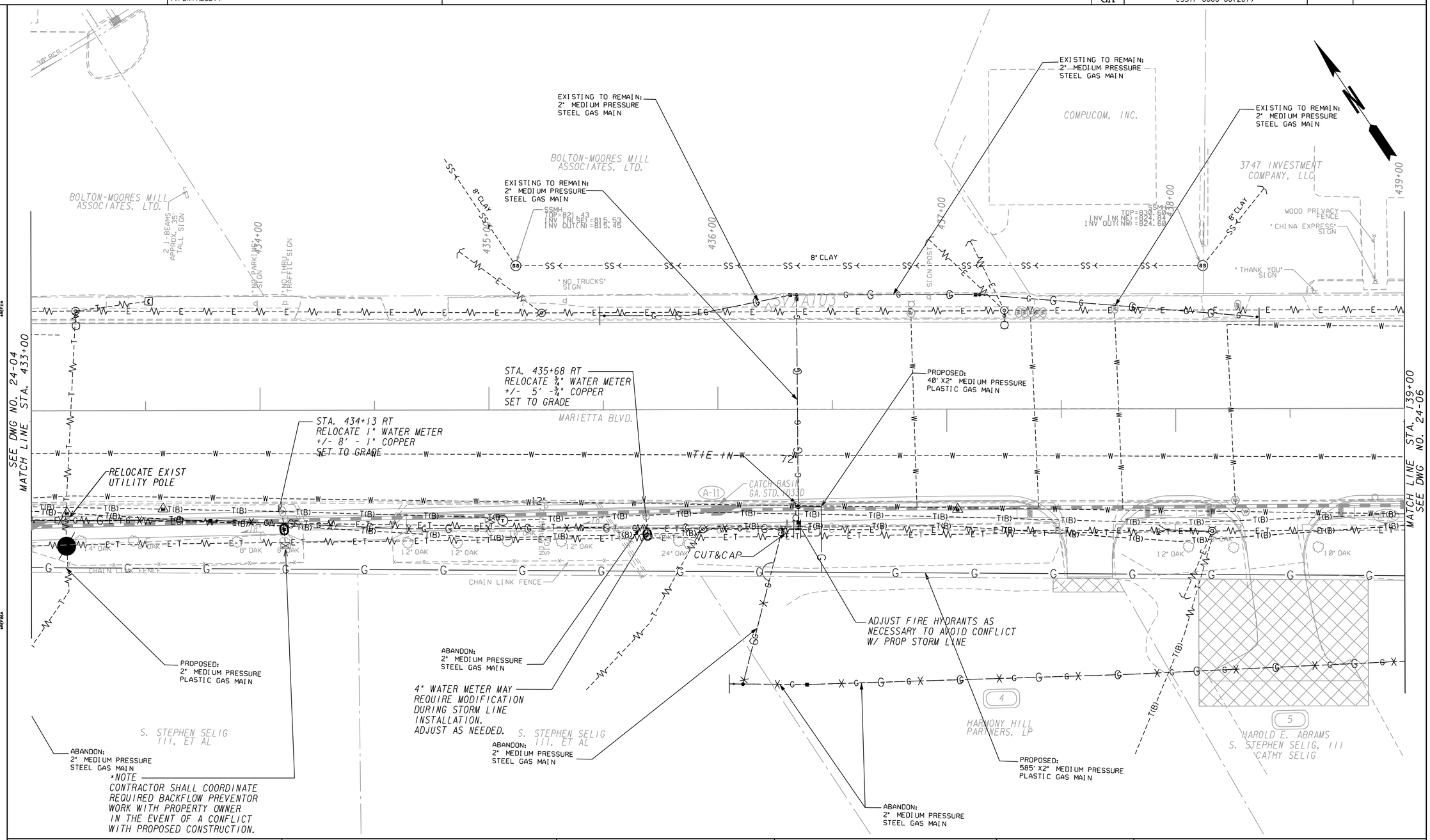
UTILITY PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 24-04

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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CITY OF ATLANTA

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 24-05

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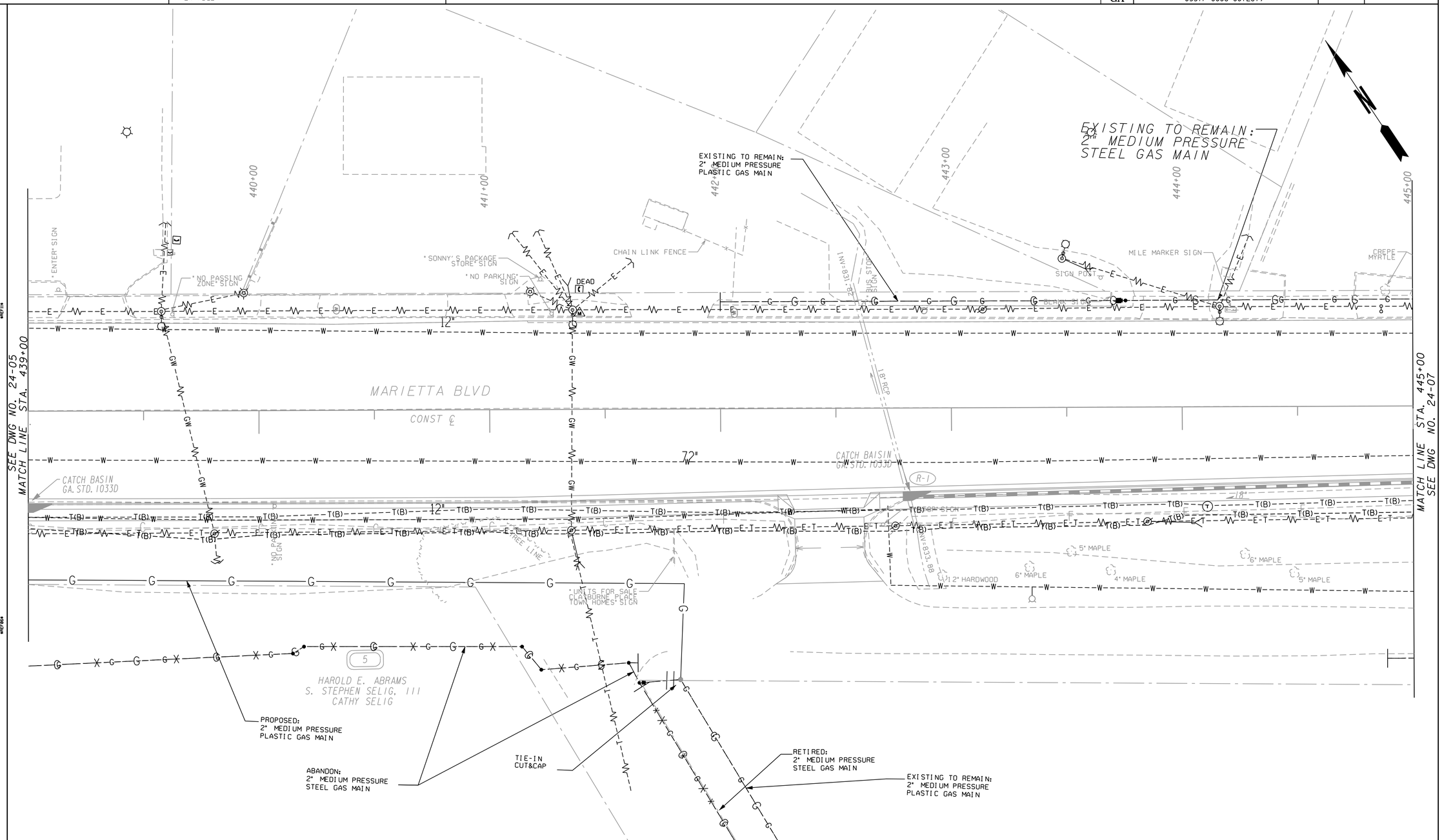

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REVISION DATES		

CITY OF ATLANTA

OFFICE:

UTILITY PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 24-06

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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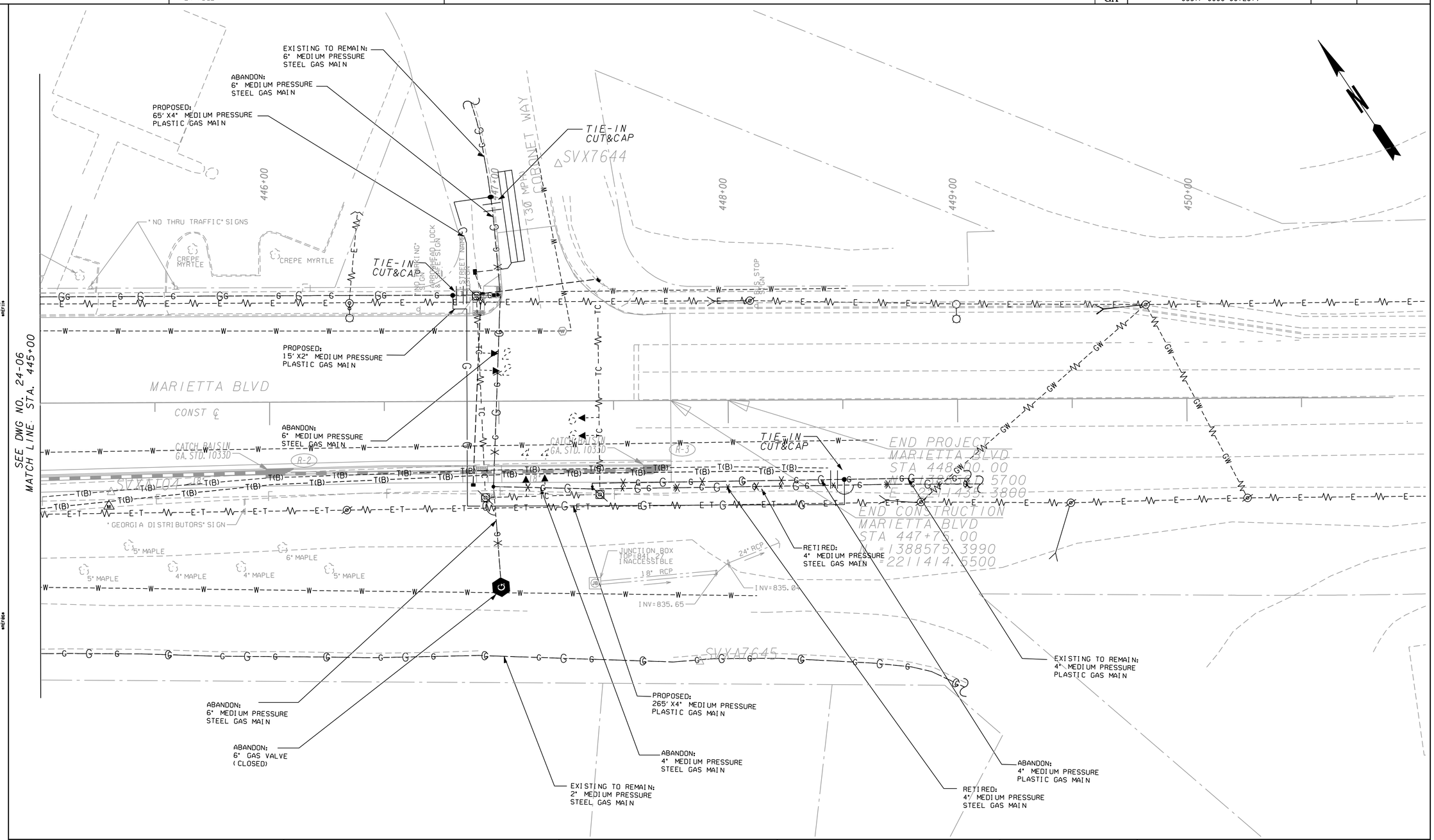

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CITY OF ATLANTA

OFFICE:

UTILITY PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 24-07

3/11/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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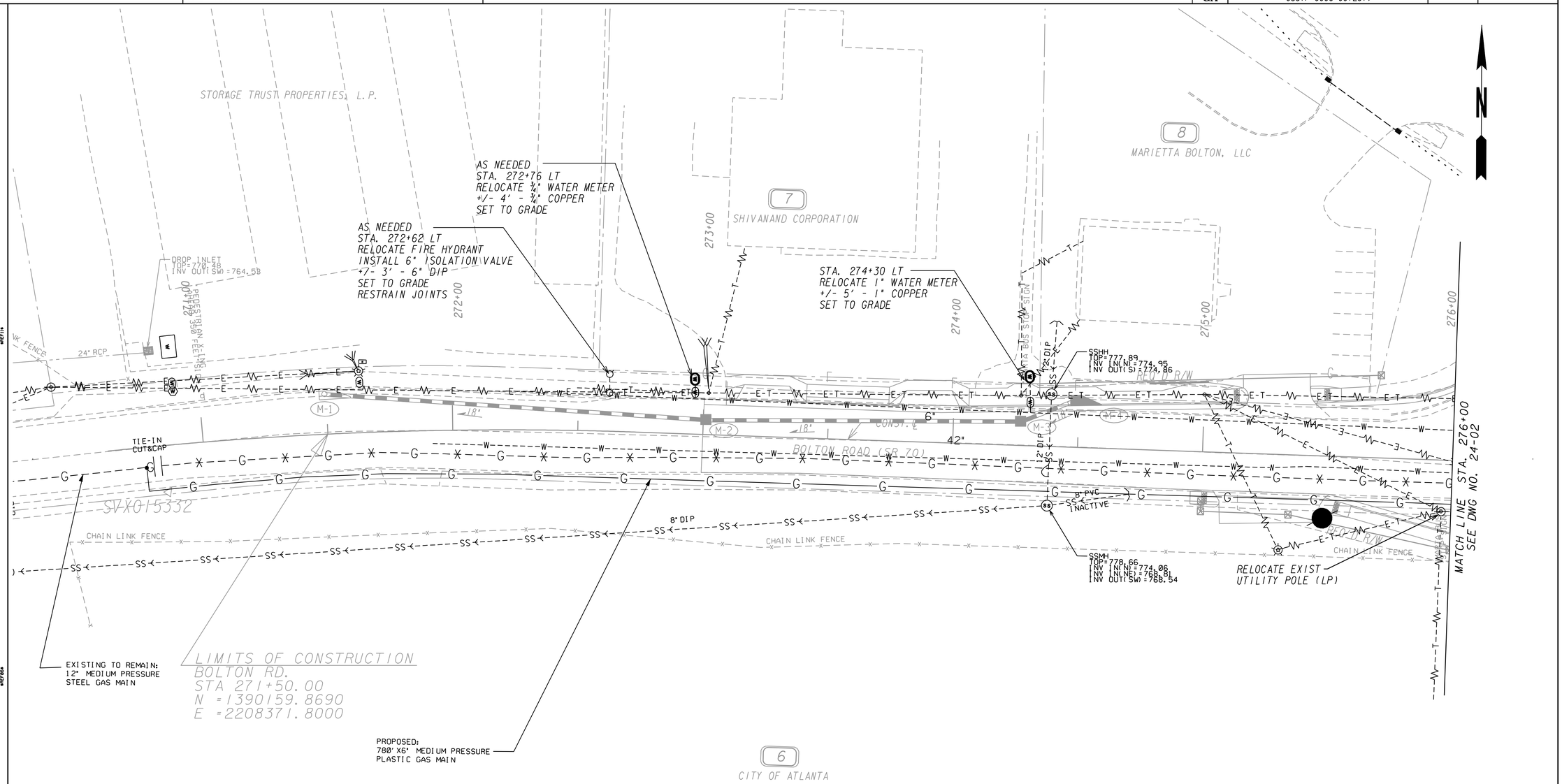

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REVISION DATES		

CITY OF ATLANTA

OFFICE:

UTILITY PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No.
24-08

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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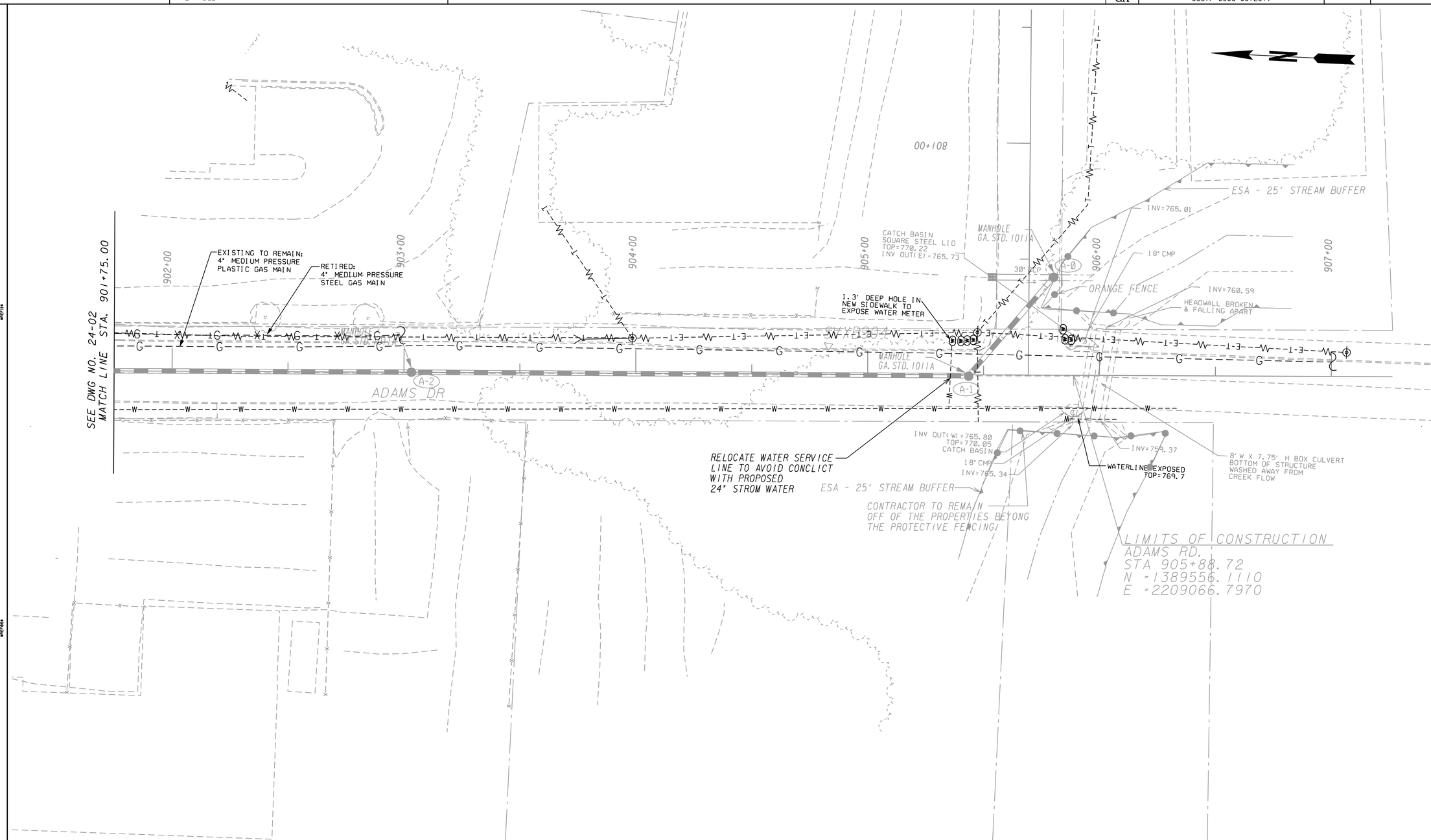

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REVISION DATES		

CITY OF ATLANTA

OFFICE:

UTILITY PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 24-09

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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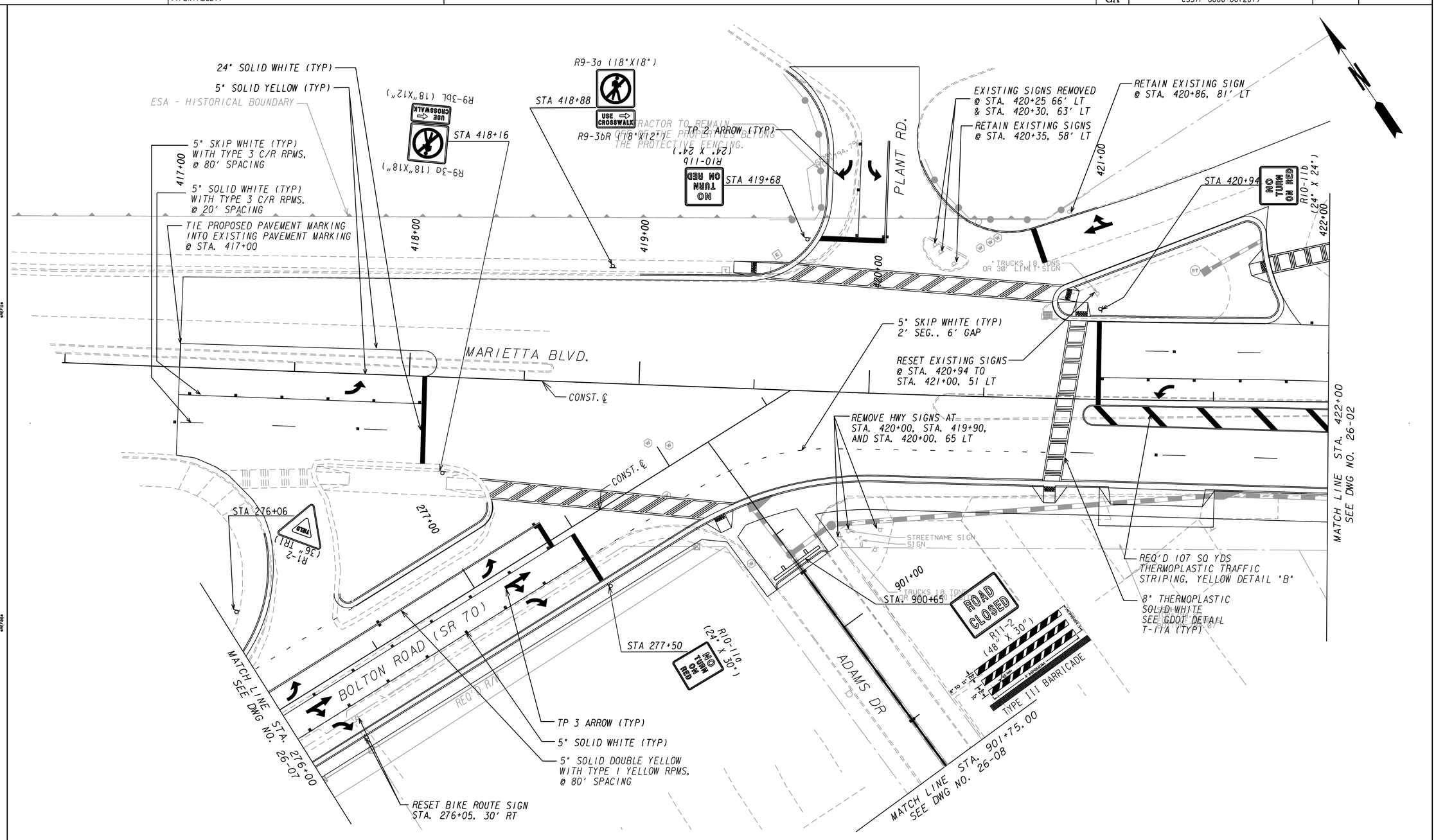

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CITY OF ATLANTA

OFFICE:

SIGNING AND MARKING PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 26-01

3/1/2007 GPLK

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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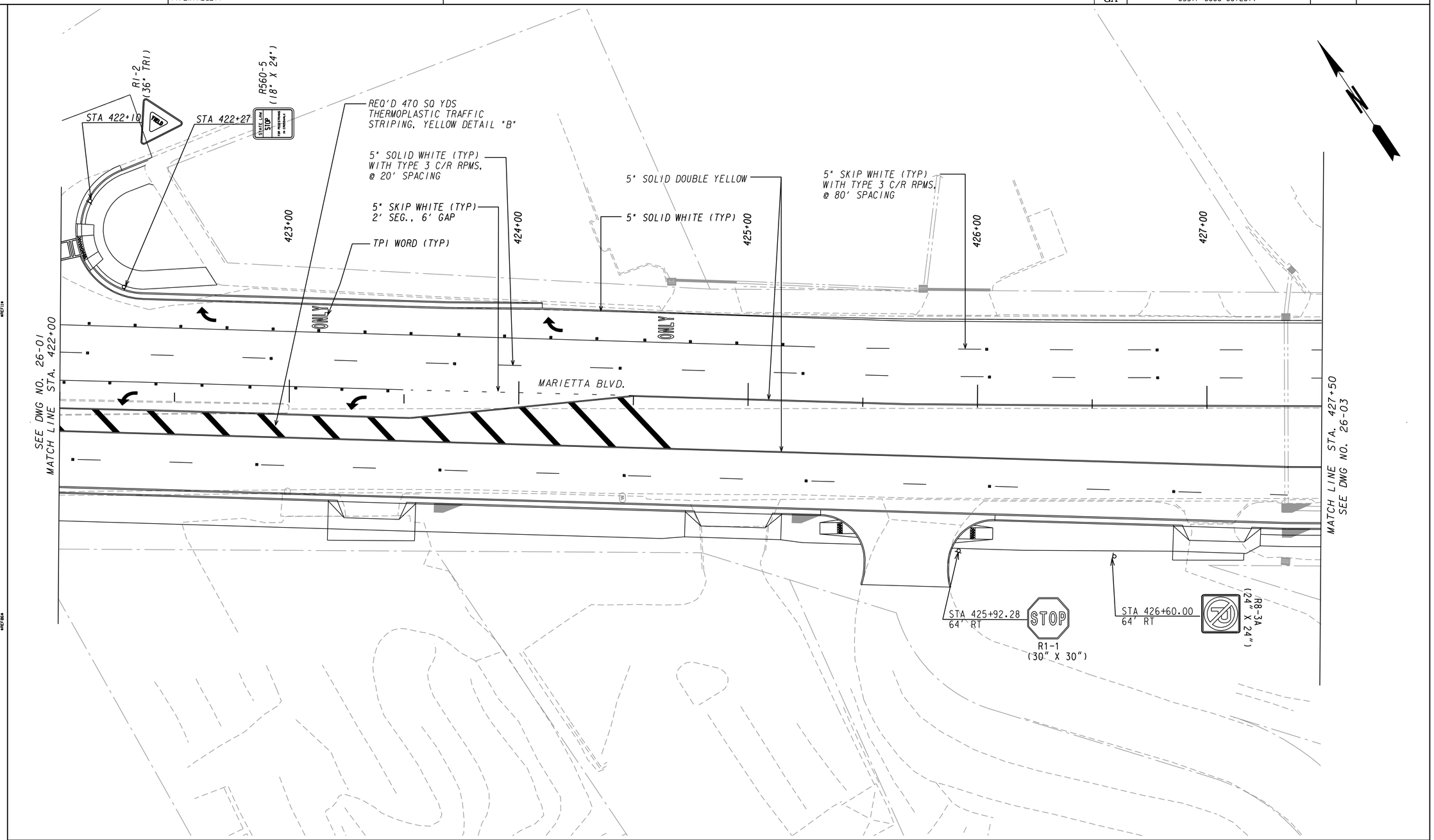

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CITY OF ATLANTA

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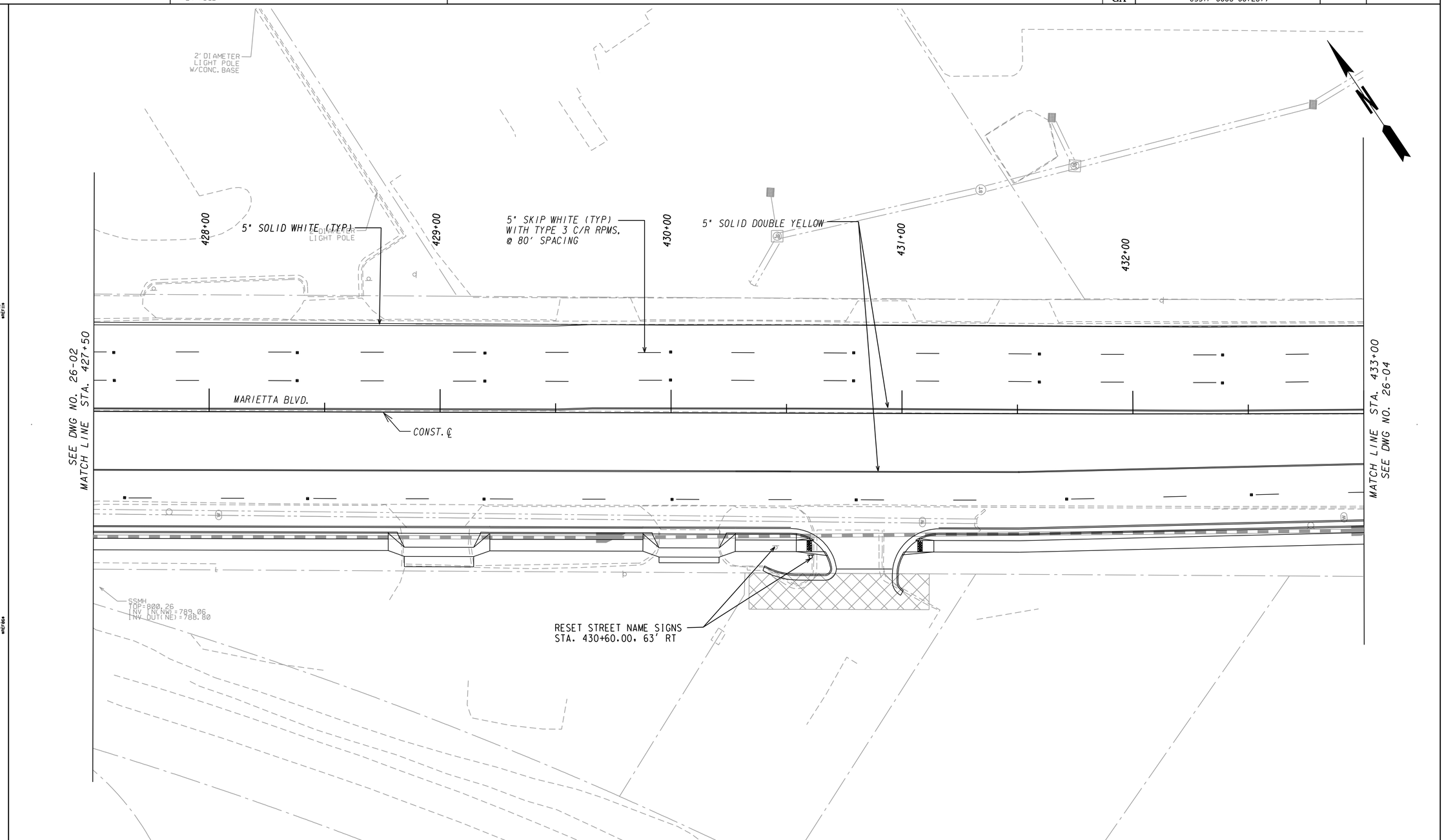
FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 26-02

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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CITY OF ATLANTA

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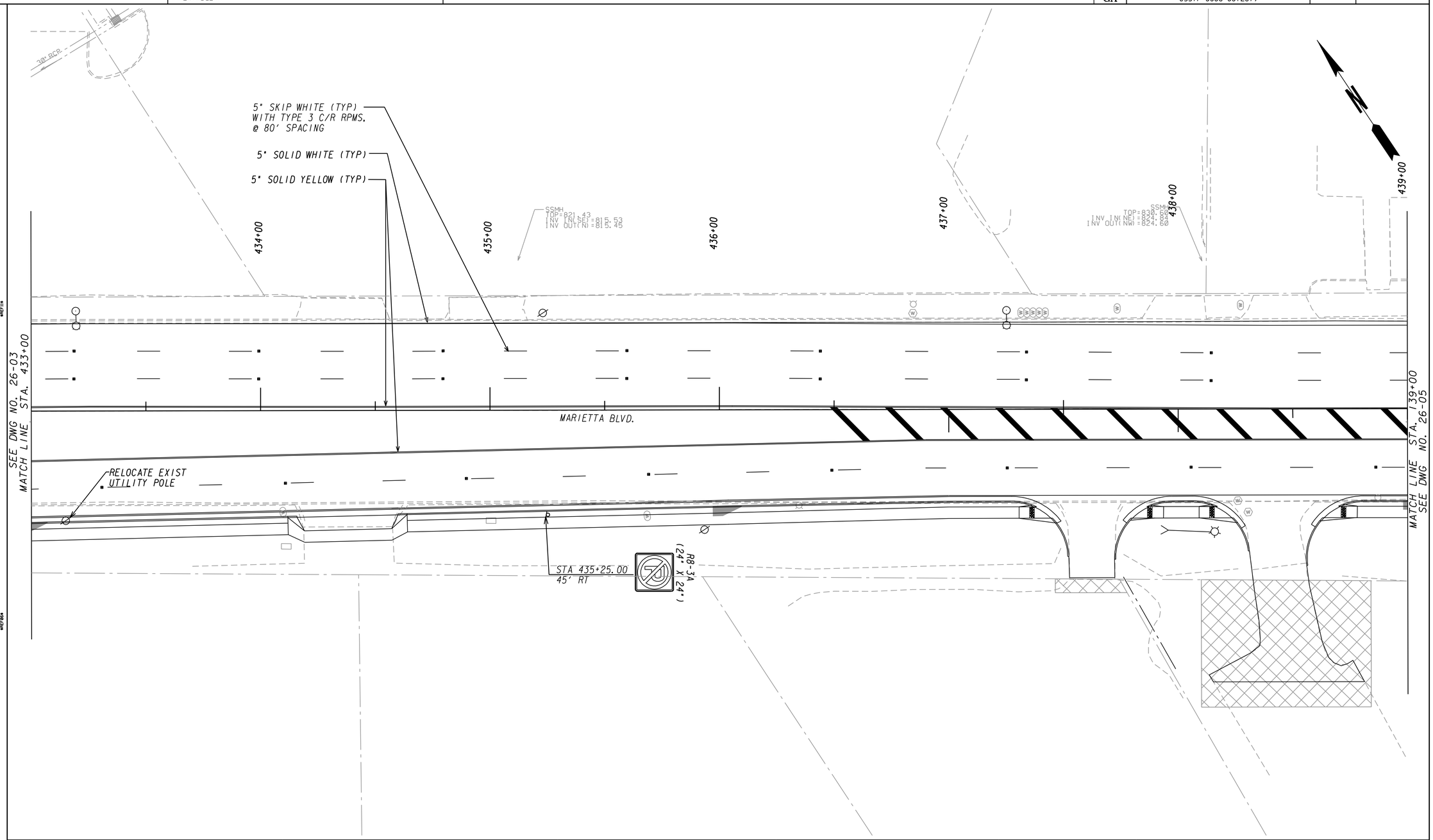
FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 26-03

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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CITY OF ATLANTA

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 26-04

3/1/2007 GPLN

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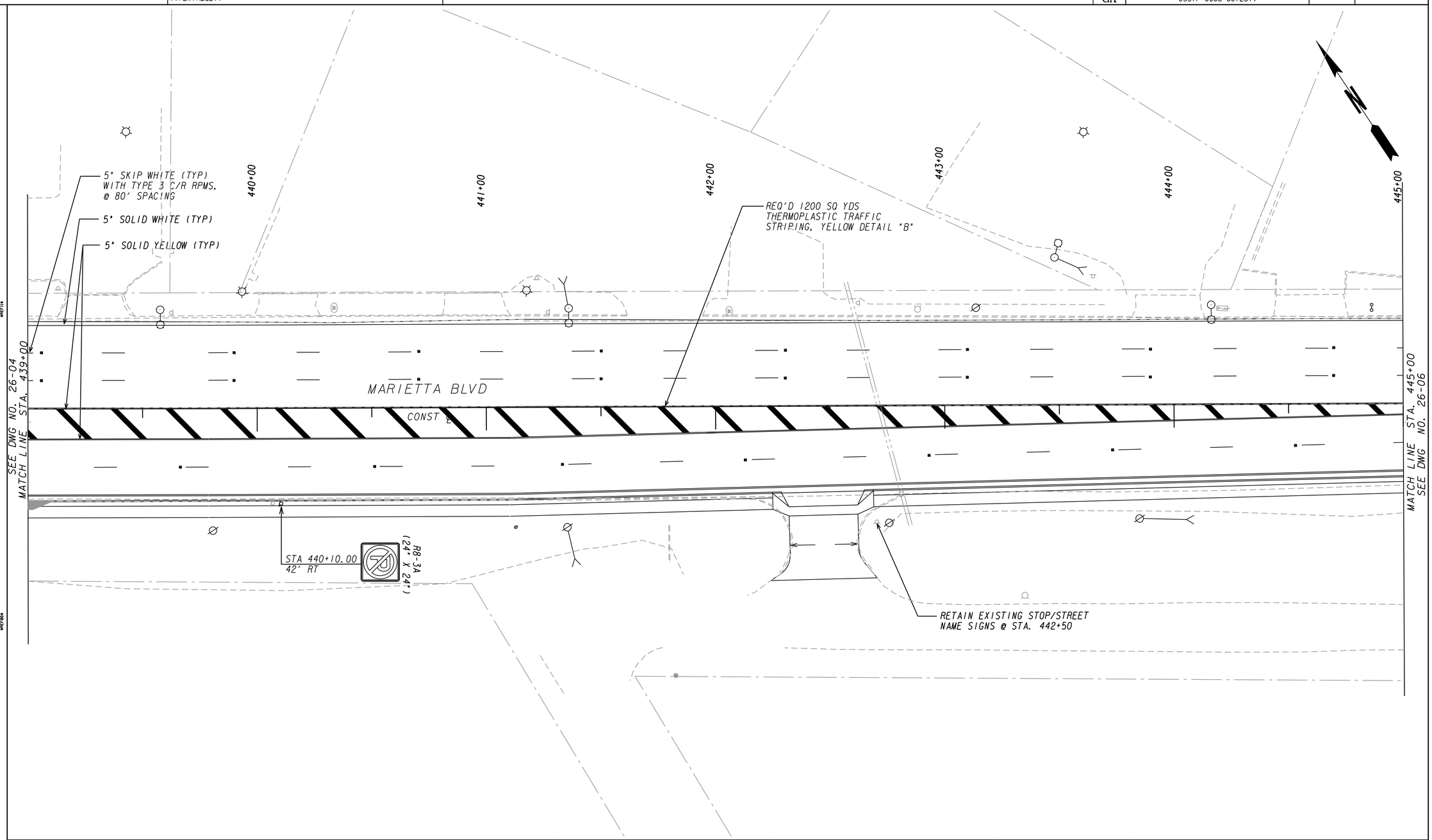

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No.
26-05

3/1/2007 GPLN

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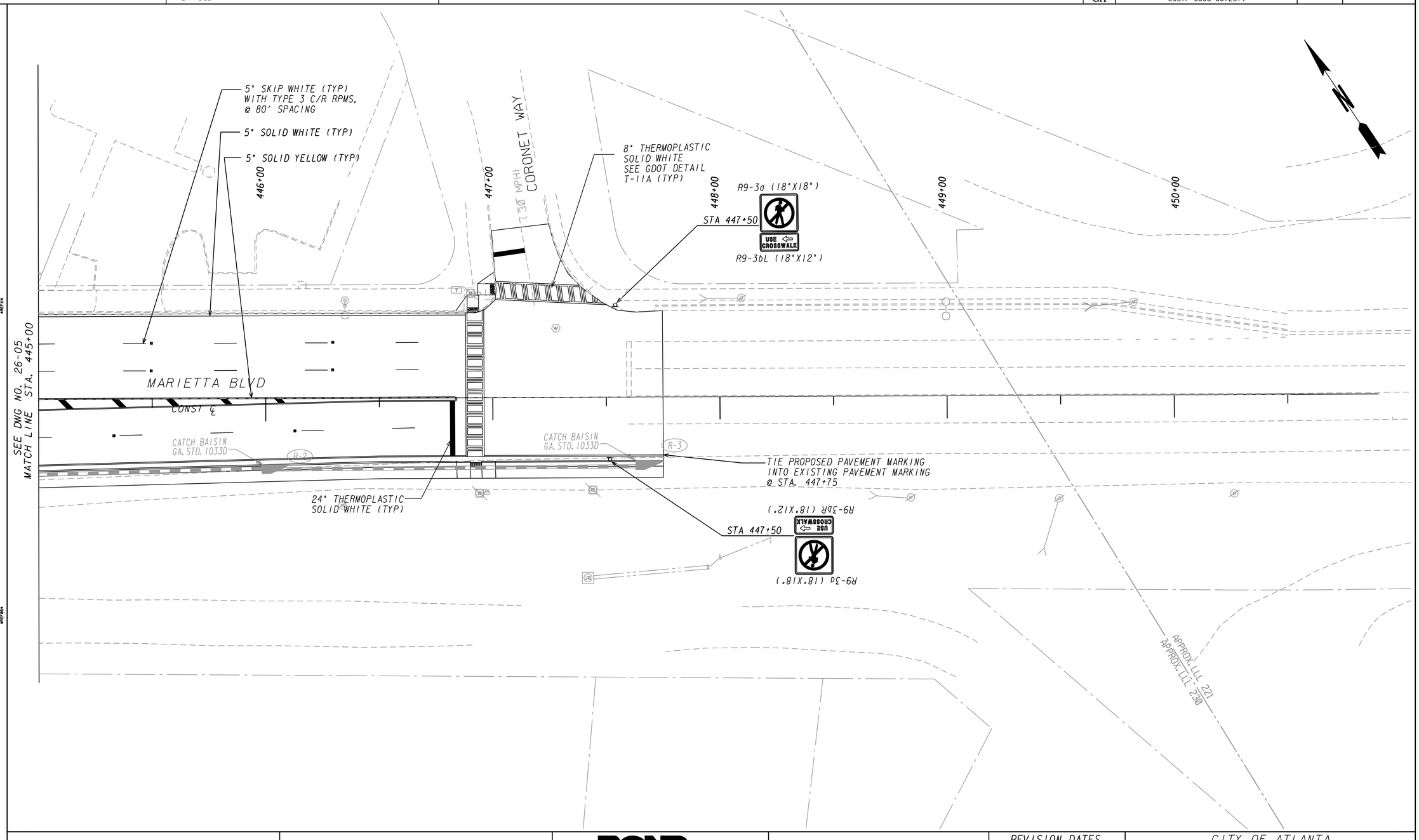

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CITY OF ATLANTA

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SIGNING AND MARKING PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No.
26-06

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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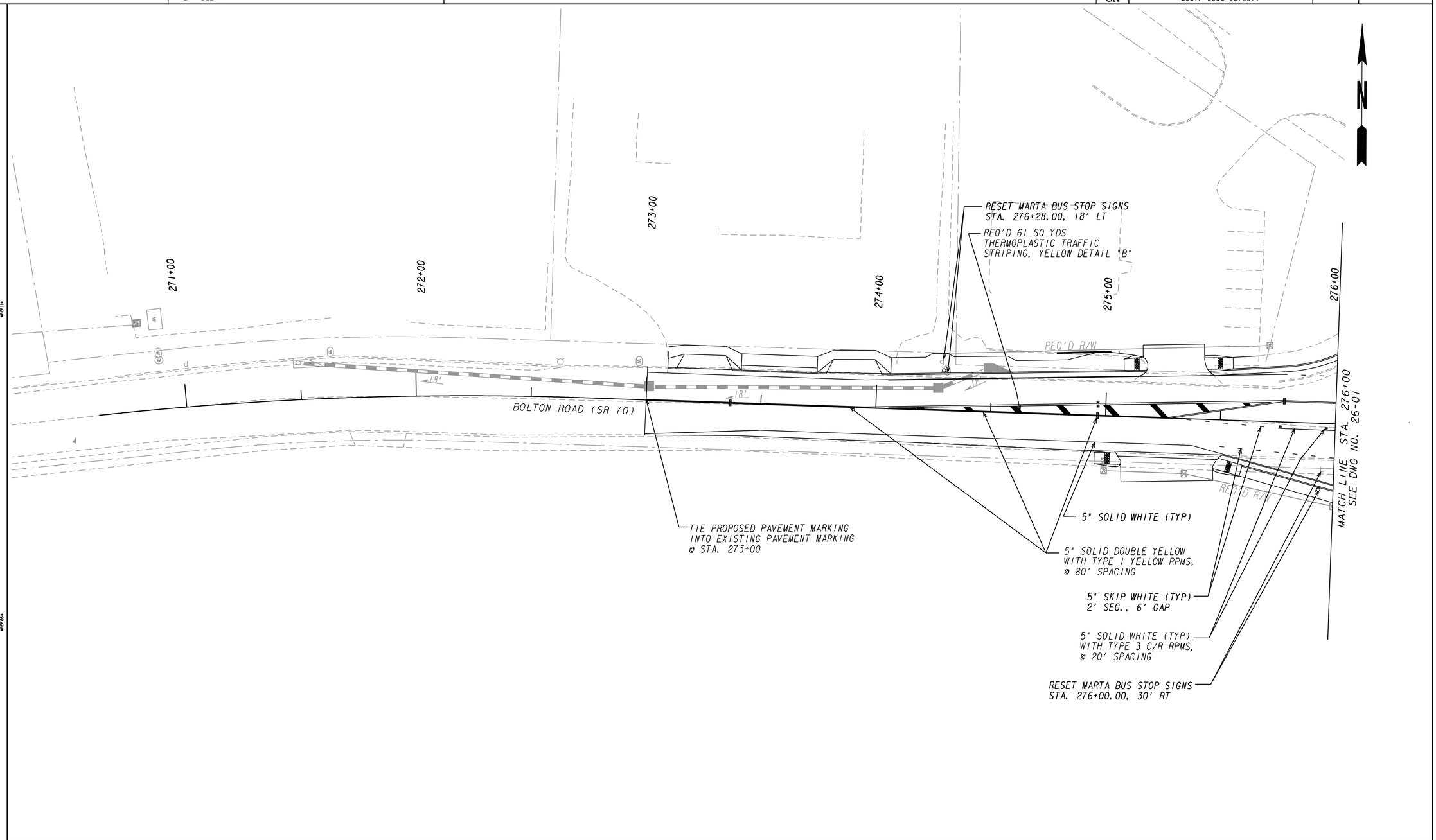

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CITY OF ATLANTA

OFFICE:

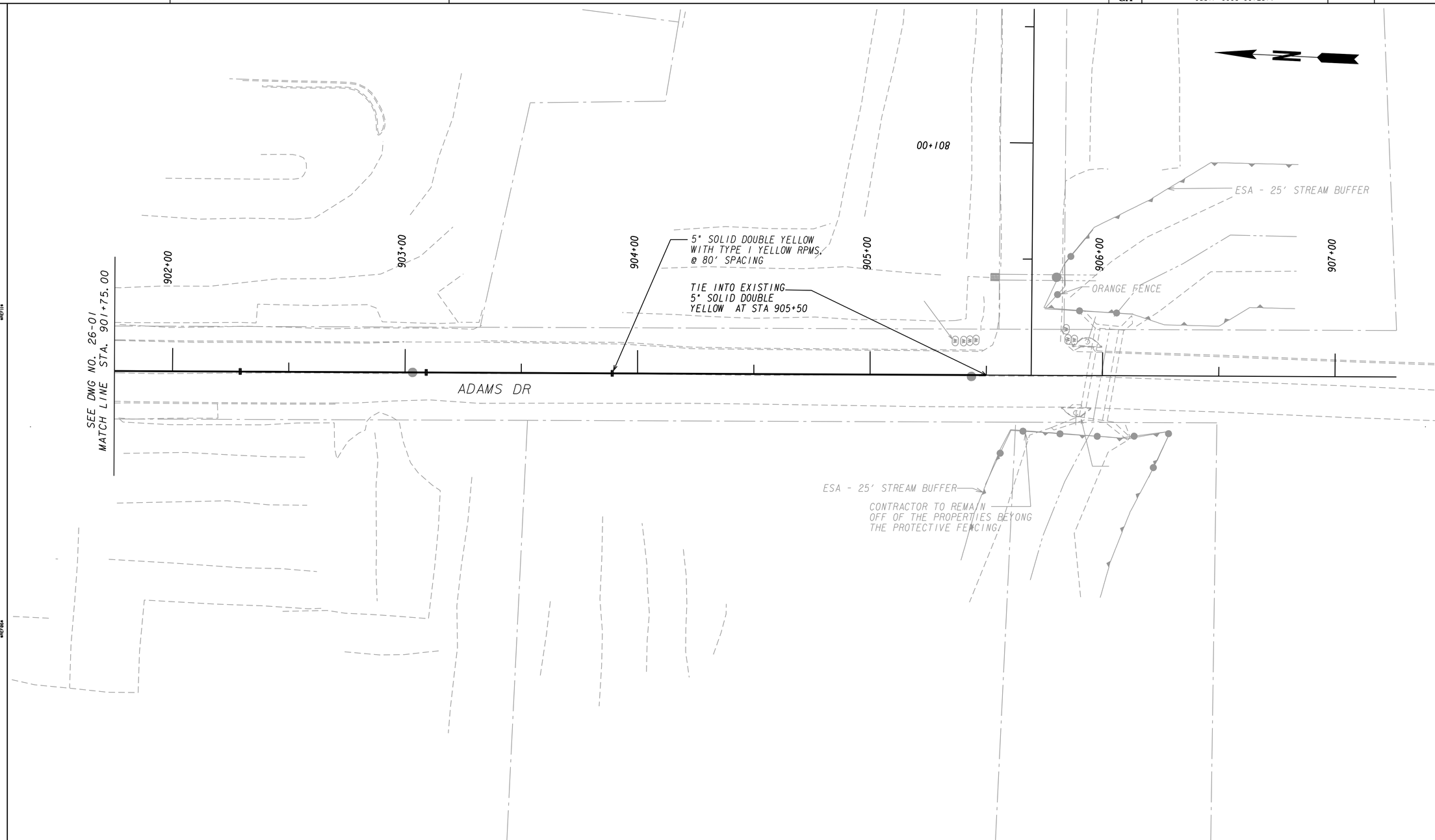
SIGNING AND MARKING PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 26-07

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		



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CITY OF ATLANTA

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SIGNING AND MARKING PLANS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 26-08

3/1/2007 GPLN

TRAFFIC SIGNAL GENERAL NOTES AND LEGEND

1. THE COMPLETE SIGNAL INSTALLATION, MODIFICATION AND/OR REBUILD SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION INCLUDING SUBSEQUENT PUBLISHED RULINGS.
2. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE CURRENT GDOT/CITY OF ATLANTA SPECIFICATIONS.
3. ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH THE CURRENT FULTON COUNTY AND GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR IS REQUIRED TO MAINTAIN VEHICLE DETECTION WITHOUT INTERRUPTION FOR ALL TRAFFIC SIGNAL PHASES DURING CONSTRUCTION OF THE PROJECT. APPROVED VIDEO DETECTION SHALL BE USED FOR PRESENCE DETECTION AND APPROVED VIDEO OR MICROWAVE DETECTION SHALL BE USED FOR PULSE DETECTION. TEMPORARY POLES MAY BE REQUIRED TO SUPPORT THESE DETECTION DEVICES DURING PROJECT CONSTRUCTION.
5. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN THE VICINTY OF NEW TRAFFIC SIGNAL POLES, CONDUIT, AND PULL BOXES BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF FIVE (5) FEET) IN THE LOCATION OF NEW SIGNAL POLES, CONDUIT, AND PULL BOXES, SHALL BE AT THE DISCRETION OF THE CITY OF ATLANTA SIGNAL DESIGN ENGINEER.
6. PROVIDE A MINIMUM OF 10' CLEARANCE BETWEEN POWER LINES AND MAST ARMS. RAISE POWER LINES IF NECESSARY.
7. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 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 HEADS.
8. THE SIGNAL INSPECTOR MUST BE CONTACTED THREE (3) DAYS IN ADVANCE OF POURING CONCRETE FOUNDATIONS TO VERIFY BOLT PATTERNS AND CONDUIT PLACEMENT.
9. WHEN REMOVED, EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED AND UNLOADED BY THE CONTRACTOR TO THE CITY OF ATLANTA DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL PROVIDE AN INVENTORY LIST OF RETURNED EQUIPMENT AND ARRANGE A MUTUALLY AGREEABLE DELIVERY TIME WITH THE CITY OF ATLANTA WAREHOUSE TECHNICIAN, TWENTY-FOUR (24) HOURS IN ADVANCE.
10. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE CITY OF ATLANTA TRAFFIC ENGINEER OR HIS/HER DESIGNEE PRIOR TO FINAL ACCEPTANCE.
11. THE CONTRACTOR SHALL CONTACT THE CITY OF ATLANTA DEPARTMENT OF TRANSPORTATION FOR A PRE-CONSTRUCTION MEETING TO BE HELD AT THE CITY OF ATLANTA DOT OFFICE, AT WHICH TIME THE CONTRACTOR SHALL ISSUE A LETTER TO THE CITY OF ATLANTA DOT ACCEPTING RESPONSIBILITY OF THE SPECIFIED INTERSECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND MAINTAIN CONTROL OF THE SIGNAL UNTIL FINAL ACCEPTANCE OF THE SIGNAL BY THE CITY OF ATLANTA DEPARTMENT OF TRANSPORTATION.
12. INSTALL (4) EA. 3"NONMETAL CONDUIT AND (2) EA. 1"NONMETAL CONDUIT BETWEEN THE CONTROL CABINET AND ITS ADJACENT PULLBOX.
13. INSTALL (3) EA. 2"NONMETAL CONDUIT AND (2) EA. 1"NONMETAL CONDUIT BETWEEN EACH STEEL STRAIN POLE (WITH OR WITHOUT MAST ARM) AND ITS ADJACENT PULLBOX.
14. INSTALL (2) EA. 2"NONMETAL CONDUIT AND (1) EA. 1"NONMETAL CONCUIT BETWEEN PEDESTAL POLE AND ITS ADJACENT PULLBOX.
15. VIDEO DETECTORS SHALL BE ECONOLITE SOLO-TERRA.
16. LFE OR EQUIVALENT TRAFFIC SIGNAL HEADS ARE REQUIRED WITH PIXELATED L.E.D. MODULES.
17. PEDESTRIAN SIGNAL HEADS SHALL BE PIXELATED LED PEDESTRIAN AND COUNTDOWN (16"X 18"TYPE W/OVERLAPPING FULLY POPULATED HAND AND MAN + COUNTDOWN) AND SHALL BE INSTALLED FOR ALL PEDESTRIAN SIGNAL HEADS.
18. MOMENTARY PUSHBUTTONS (PRESSURE SENSITIVE) SHALL BE INSTALLED FOR ALL PUSHBUTTONS.
19. GROUNDING SHALL BE 5 OHMS OR LESS.
20. CONNECT POWER SERVICE TO CABINET WITH 1INCH RIGID CONDUIT AND RISER.
21. ALL D3'S (STREET NAME SIGNS ON MAST ARMS OR SPAN WIRE) SHALL BE FURNISHED AND INSTALLED BY THE SIGNAL CONTRACTOR.
22. MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE AND ACCEPTED INSTALLATION.
23. THE SIGNAL CONTRACTOR IS RESPONSIBLE FOR ANY FIBER OPTIC CABLE RELOCATION THAT IS ASSOCIATED WITH THE PROJECT.

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY CONDITIONS PRIOR TO ANY CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
2. THE CONTRACTOR SHALL ADHERE TO THE CALL BEFORE YOU DIG LAW BY CALLING THE UNDERGROUND PROTECTION CENTER AT 1-800-282-7411 BEFORE BEGINNING CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE APPROPRIATE CLEARANCES FROM UTILITIES.

24. SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET. DETECTORS SHALL HAVE SEPERATE LEAD-INS TO THE CONTROL CABINET.
25. 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.
26. THE INSTALLATIONS SHALL BE CAPABLE OF "CLOSED LOOP" ISOLATED MONITORING OVER TELEPHONE LINES FROM EXISTING CENTRAL COMPUTERS LOCATED AT BOTH THE LOCAL DOT DISTRICT OFFICE, TRAFFIC ENGINEERING SECTION, AND THE DOT OFFICE OF TRAFFIC OPERATIONS ELECTRICAL FACILITIES, 935 E. CONFEDERATE AVE., N.E., BLDG 5, ATLANTA, GEORGIA 30316. CLOSED LOOP SYSTEM DEMONSTRATION IS REQUIRED AT BOTH CENTRAL SITES, NOTED PRIOR TO FINAL ACCEPTANCE.
27. CONTRACTOR SHALL TIE PROPOSED PEDESTRIAN EQUIPMENT INTO THE EXISTING TRAFFIC SIGNAL PHASING AT THE INTERSECTION OF MARIETTA BLVD AND CORONET WAY.

EXISTING UTILITIES

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

EXISTING SIGNAL

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

PROPOSED SIGNAL

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 3 SECTION HEAD W/ BACKPLATE
- 5 SECTION HEAD
- 5 SECTION HEAD W/ BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP
- PULLBOX.TP 1
- PULLBOX.TP 2
- PULLBOX.TP 3
- PULLBOX.TP 4
- PULLBOX.TP 7
- 6x6 PULSE LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT
- RAILROAD CONTROLLER
- SIGN POST

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REVISION DATES

CITY OF ATLANTA
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SIGNAL PLANS
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BOLTON RD AT MARIETTA BLVD

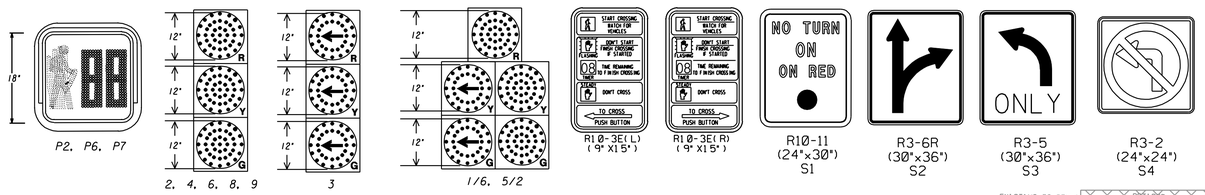
DRAWING No. 27-01

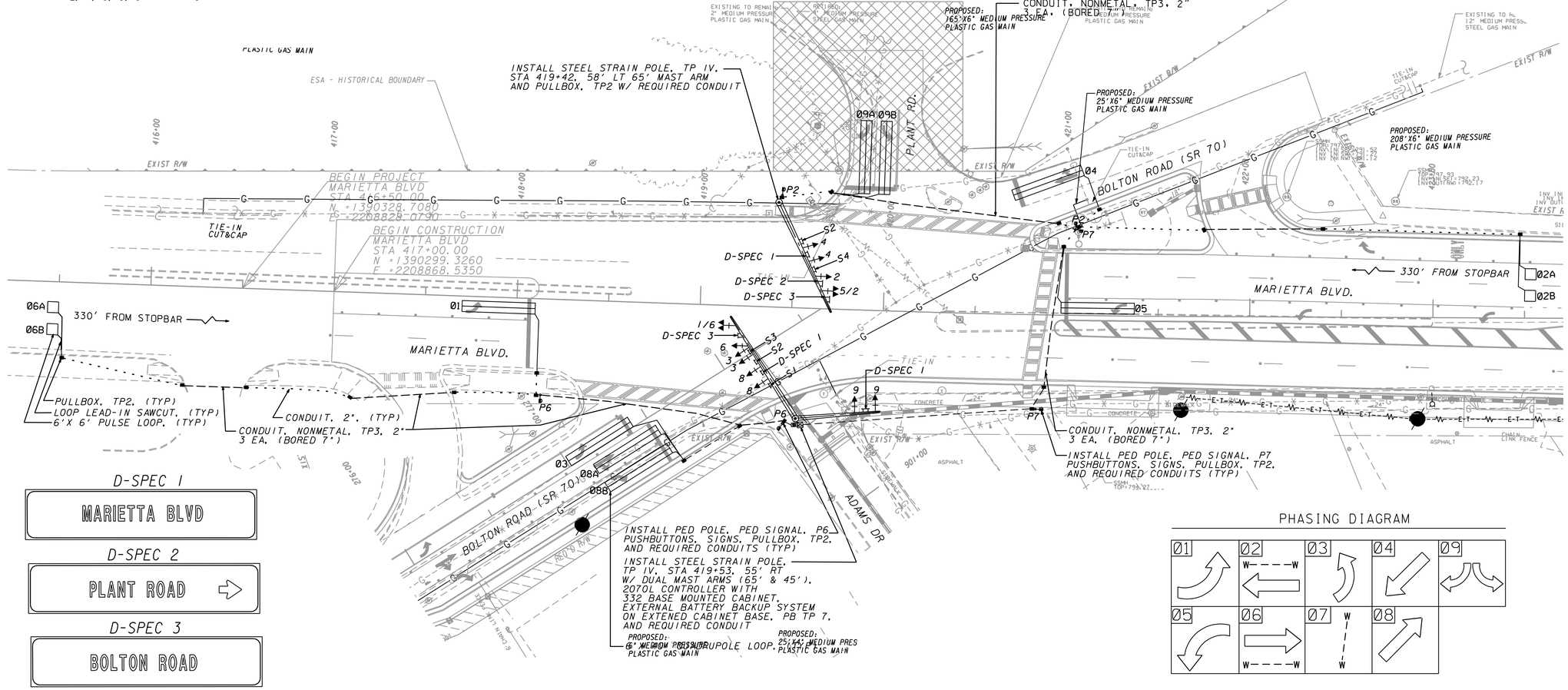
GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		

INSTALLATION NO. 1

TRAFFIC AND LED PEDESTRAIN SIGNALS AND SIGNS





PHASING DIAGRAM

D-SPEC 1

MARIETTA BLVD

D-SPEC 2

PLANT ROAD

D-SPEC 3

BOLTON ROAD

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CITY OF ATLANTA

OFFICE:

SIGNAL PLANS

FULTON COUNTY
MARIETTA BLVD @
BOLTON RD/PLANT RD

DRAWING No. 27-02

CABINET PIN ASSGNMENT

332 CABINET INPUT ASSIGNMENT

	SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
UPPER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2CH		2CH		2CH							DC ISO	DC ISO	DC ISO
CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION	01	02	02	02	03	04	04	04	01			02 PED	06 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION	02	02	02	02	02	02	02	02	02			04 PED	08 PED	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C
LOWER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2CH		2CH			2CH								
CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION	05	06	06	06	07	08	08	08	05			EVA	EVB	RR1
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION	05	06	06	06	07	08	08	08	07			EVC	EVD	RR2
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

INSTALLATION #1 (MARIETTA BLVD @ BOLTON RD/PLANT RD)

LIST OF MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070L	EA	1
D. CABINET ASSEMBLY, MODEL 332	EA	1
E. SWITCH PACK	EA	10
F. DC ISOLATOR	EA	4
G. LOOP DETECTOR CARD, 2 CHANNEL	EA	9
J. 2010E CONFLICT MONITOR, EXTENDED FEATURES	EA	1
K. BATTERY BACKUP SYSTEM		
1. EXTERNAL MOUNTED, (per GDOT specs)	EA	1
HAYES SMART MODEM (OR EQUIVALENT)	EA	1
TELEPHONE LINE DEDICATION AND MODEM HOOK-UP	EA	1
PC642-200 (OR EQUIVALENT), SURGE PROTECTOR	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT)		
A. 3 PAIR, 18 AWG	REEL	1
SIGNAL CABLE (14 AWG)		
B. 7 CONDUCTOR, PER 1000 FT.	REEL	1
LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)	REEL	1
ONE-WAY, 3-SECTION, 12" PIXIALATED LED SIGNAL HEAD, PLASTIC	EA	8
ONE-WAY, 5-SECTION, 12" PIXIALATED LED SIGNAL HEAD, PLASTIC	EA	3
ONE-WAY, 1-SECTION, 18" LED COUNTDOWN PED SIGNAL HEAD, FULL, HAND/MAN OVERLAP		
1. 9" HIGH, (PREFERRED)	EA	5
PEDESTRIAN PUSH BUTTON AND SIGN, w/ADAPTER FOR 9"X12" SIGN	EA	6
BACK PLATE FOR ONE-WAY, THREE SECTION, 12" SIGNAL HEAD	EA	8
BACK PLATE FOR ONE-WAY, FIVE SECTION, 12" SIGNAL HEAD	EA	3
HARDWARE FOR MAST ARM MOUNTING	EA	11
HARDWARE FOR SIDE-OF-POLE MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	5
PEDESTAL POLE 10FT	EA	5
PULL BOX, PB-2	EA	21
LOOP SAW CUT	EA	1256
CONDUIT, 1"	LF	20
CONDUIT, 2"	LF	50
S1 (R10-12)	EA	1
S2 (R3-6R)	EA	2
S3 (R3-5)	EA	1
S3 (R3-2)	EA	1
MISC MATL TO COMPLETE INSTALLATION	LUMP	LUMP
647-1000 TRAFFIC SIGNAL INSTALLATION NO. 1	LUMP	LUMP
615-1200 DIRECTIONAL BORE 7 IN	LF	450
639-3004 STEEL STRAIN POLE, TPIV, W/ MAST ARMS (65' & 45')	EA	2
639-3004 STEEL STRAIN POLE, TPIV, W/ MAST ARM (65')	EA	1
647-2170 PULL BOX, TP 7	EA	1
682-6233 CONDUIT, NONMETAL, TP 3, 2 IN	LF	550

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SCALE IN FEET
0 30 60 120

REVISION DATES

CITY OF ATLANTA

OFFICE:

SIGNAL PLANS

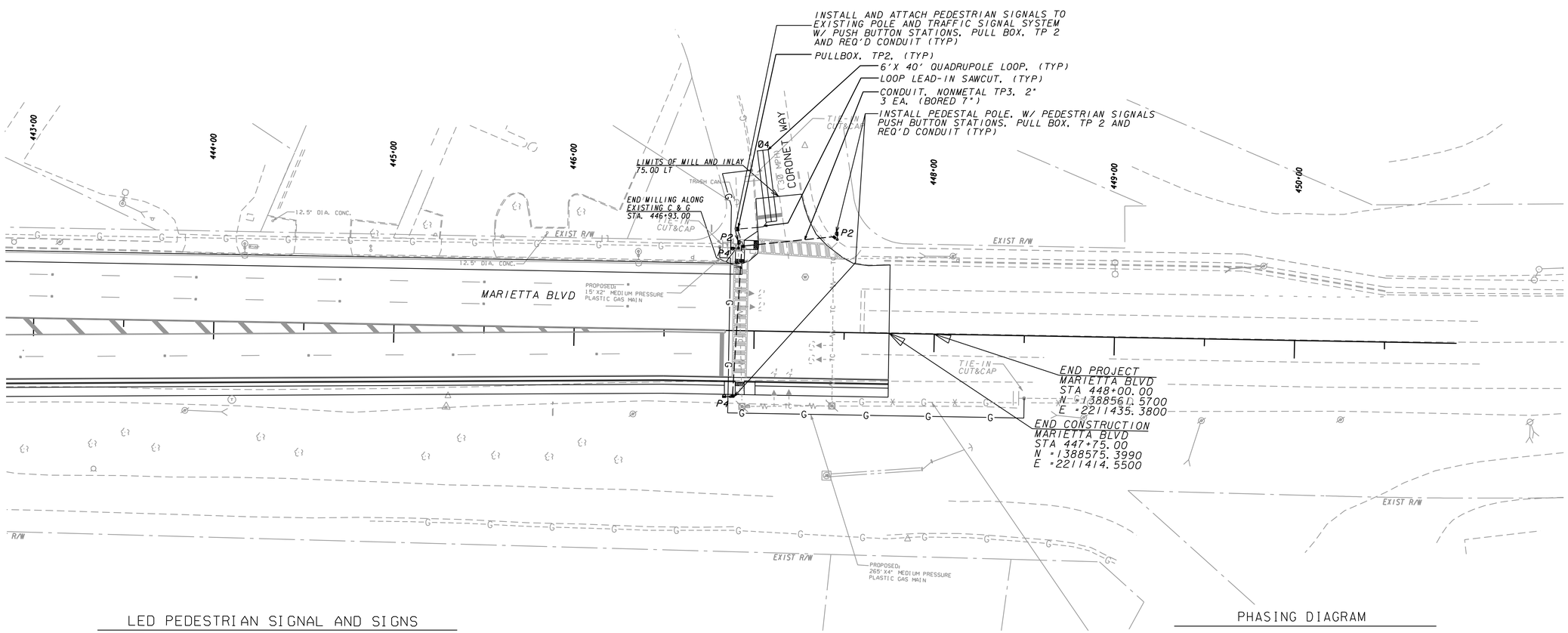
FULTON COUNTY

MARIETTA BLVD @
BOLTON RD/PLANT RD

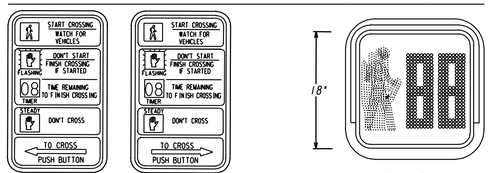
DRAWING No.
27-03

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(261)		

INSTALLATION NO. 2



LED PEDESTRIAN SIGNAL AND SIGNS

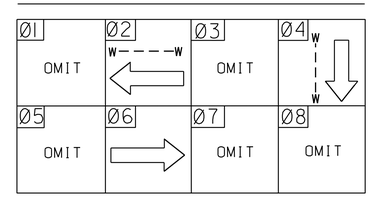


R10-3E(L) (9" X 15")

R10-3E(R) (9" X 15")

P2, P4

PHASING DIAGRAM



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

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SCALE IN FEET
0 30 60 120

REVISION DATES

CITY OF ATLANTA

OFFICE:

SIGNAL PLANS

FULTON COUNTY
MARIETTA BLVD @ CORONET WAY

DRAWING No. 27-04

3/1/2007 GPLN

CABINET PIN ASSGNMENT

332 CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14

UPPER INPUT FILE

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		2CH				2CH						DC ISO	DC ISO	DC ISO
CHANNEL 1	CI PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION	Ø1	Ø2	Ø2	Ø2	Ø3	Ø4	Ø4	Ø4	Ø1			Ø2 PED	Ø6 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C

CHANNEL 2	CI PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION	Ø1	Ø2	Ø2	Ø2	Ø2	Ø2	Ø2	Ø2	Ø2			Ø4 PED	Ø8 PED	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

LOWER INPUT FILE

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		2CH												
CHANNEL 1	CI PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION	Ø5	Ø6	Ø6	Ø6	Ø7	Ø8	Ø8	Ø8	Ø5			EVA	EVB	RR1
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12

CHANNEL 2	CI PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION	Ø5	Ø6	Ø6	Ø6	Ø7	Ø8	Ø8	Ø8	Ø7			EVC	EVD	RR2
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

INSTALLATION #2 (MARIETTA BLVD @ CORONET WAY)

LIST OF MATERIALS

	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
E. SWITCH PACK	EA	2
F. DC ISOLATOR	EA	2
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT) A. 3 PAIR, 18 AWG	REEL	1
SIGNAL CABLE (14 AWG) B. 7 CONDUCTOR, PER 1000 FT.	REEL	1
ONE-WAY, 1-SECTION 18"PEDESTRIAN LED SIGNAL HEAD, FULL SIDE BY SIDE	EA	4
PEDESTRIAN PUSH BUTTON AND SIGN	EA	6
HARDWARE FOR PEDESTAL ERECTION FOR 18" PEDESTRIAN LED SIGNAL HEADS, ONE-WAY MOUNTING	EA	2
HARDWARE FOR PEDESTAL ERECTION FOR 18" PEDESTRIAN LED SIGNAL HEADS, TWO-WAY MOUNTING	EA	2
PEDESTAL POLE 10 FT	EA	3
PULL BOX, SIZE 2, POLYMER CONCRETE	EA	3
LOOP SAWCUT	LF	256
CONDUIT, 1"	LF	20
CONDUIT, 2"	LF	20
MISC MATL TO COMPLETE INSTALLATION	LUMP	LUMP
647-1000 TRAFFIC SIGNAL INSTALLATION NO. 02	LUMP	LUMP
615-1200 DIRECTIONAL BORE, 7 IN	LF	150
682-6233 CONDUIT, NONMETAL TP 3, 2 IN	LF	150

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REVISION DATES

CITY OF ATLANTA

OFFICE:

SIGNAL PLANS

FULTON COUNTY
MARIETTA BLVD @ CORONET WAY

DRAWING No. 27-05

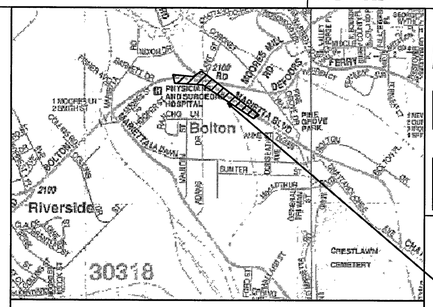
DATE$$$ $USER$	PRF $$PENTABLE$$	DGN GRWCOV	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSSTP-0006-00(261)		

DEPARTMENT OF TRANSPORTATION
CITY OF ATLANTA

EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
MARIETTA BLVD AT BOLTON ROAD INTERSECTION
FEDERAL AID PROJECT

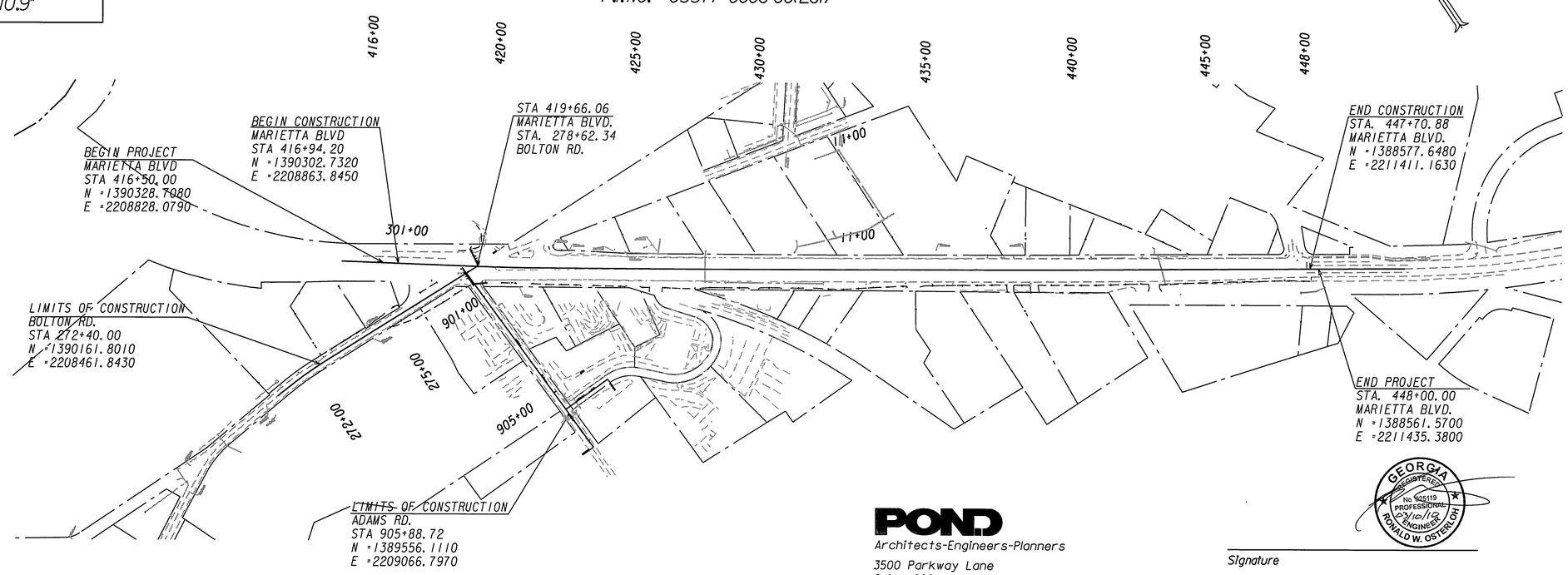
FEDERAL ROUTE # N/A
STATE ROUTE # N/A

P.I.NO. CSSTP-0006-00(261)



LOCATION SKETCH

MID-POINT COORDINATES
STA 426+04.70
LAT 33° 49' 12.9"
LONG 84° 27' 10.9"



PRIMARY PERMITTEE
CITY OF ATLANTA PUBLIC WORKS 55 TRINITY AVENUE, SUITE 4500
24 HOUR CONTACT

SCALE IN FEET
0 200 400 800

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No 925119 03/10/10 RONALD W. OSTERLOH

Signature

PREPARED BY: RON OSTERLOH, P.E.
GSWCC LEVEL II CERTIFICATION #: 0000017136

PLANS COMPLETED - -		
REVISIONS		
PAGE NUMBER	SIGNATURE	GSWCC LEVEL II #

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GAR 100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the 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."

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

ERDCOV
3/17/2007

REVISED AUGUST 28, 2008

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, or concurrent with, land disturbing activities.

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.

PLAN ALTERATIONS

The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project based on common construction methods and techniques. If the contractor elects to alter the stage 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 requires "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." -The Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or Specification may require mulching more often than 7 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizer, lime and mulching rates for this project can be found in section 700 of the current edition of the Department's specifications and other applicable contract documents, special provisions, or landscaping plans. See sheet 51-05 through 51-07 for tables from the Manual for Erosion and Sediment Control in Georgia

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 with the NOI. A copy of the construction schedule shall be maintained at the project site.

All perimeter structual practices, e.g., silt fence, shall be installed prior to clearing and grubbing".

Prior to any land disturbance activities the initial erosion and sediment control measures shall be put in place. These include but are not limited to silt fence, orange barrier fence, and inlet sediment traps. After installation the control measures shall be inspected and maintained as required in these plans, listed in the specifications or Manual for Erosion and Sediment Control in Georgia. Additional structural and vegetative control measures shall be added as required within these plans, by the Engineer, or contractor as construction progresses. As permanent stabilization is established any temporary control measures that are no longer needed shall be removed. All temporary measures shall be removed upon the completion of the project.

CONSTRUCTION ACTIVITY

This project entails a reconfiguration of the six-way intersection of Marietta Boulevard with Bolton Road, Adams Drive, and Plant Road. The project consists of shoulder grading, the installation of sidewalks, curb and gutter, and drainage systems, signal installations, and the reconstruction of driveways along Marietta Boulevard from the intersection to Coronet Way, as well as a 600 ft section of Bolton Road.

ESTIMATED ACTIVITY SCHEDULE			
ACTIVITY	TIME / MONTHS		
INSTALL EROSION CONTROL			
CLEARING			
INLET CONSTRUCTION			
CURB AND SIDEWALK			
STRIPING			
PERMANENT SEEDING			
MAINTENANCE OF EROSION CONTROL			

PETROLEUM STORAGE, SPILLS AND LEAKS

The plans provided herein do not anticipate the storage of petroleum products onsite. The Contractor shall at a minimum provide an action plan and keep the necessary material on site for the capture and disposal of any petroleum product leaks or spills associated with the servicing, refueling or operation of any equipment utilized in the work. 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 this 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 BMP's 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

PETROLEUM BASED PRODUCTS

Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent / minimize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

PAINTS / FINISHES / SOLVENTS

All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials, used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.

SOIL SERIES INFORMATION

The following is a summary of the soils that are expected to be found on the project site:. The NRCS soil survey and soil series maps for the project area are available on the Internet at: http://websoilsurvey.nrcs.usda.gov/app.

PROPOSED CONTOURS

In lieu of proposed contours, a profile and cross sections have been prepared for this project and are included in the construction plans. Please refer to the construction plans available on the project site or from the Georgia Department of Transportation for these items.

PROJECT CONTACTS

A 24-hour local contact responsible for erosion, sedimentation and pollution controls will be established by the Georgia Department of Transportation and the selected contractor prior to the start of construction activities.

The name, address and phone number of the primary permittee will be established prior to the start of construction and will be listed in the Notice of Intent (NOI).

PROPOSED RECORDS

All records for this project will be held by the primary permittee. The location of these records will be determined at the start of construction.

SOIL SURVEY CHART

Erosion Hazard (Road, Trail) 15/32 Summary by Map Unit 15/32 Fulton County, Georgia				
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (rating values)
CaA	Cartecay-Toccoa complex, 0 to 2 percent slopes, occasionally flooded	Slight	Cartecay (48%)	
			Toccoa (45%)	
			Wehadkee (7%)	
GaE	Grover-Mountain Park complex, 10 to 20 percent slopes, stony	Severe	Grover (50%)	Slope/erodibility (0.95)
			Mountain Park (40%)	Slope/erodibility (0.95)
Ub	Urban land	Not rated	Urban land (100%)	

Description

The ratings in this interpretation indicate the hazard of soil loss from unsurfaced roads and trails. The ratings are based on soil erosion factor K, slope, and content of rock fragments.
The ratings are both verbal and numerical. The hazard is described as "slight", "moderate", or "severe". A rating of "slight" indicates that little or no erosion is likely; "moderate" indicates that some erosion is likely, that the roads or trails may require occasional maintenance, and that simple erosion-control measures are needed; and "severe" indicates that significant erosion is expected, that the roads or trails require frequent maintenance, and that costly erosion-control measures are needed.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified aspect of forestland managment (1.00) and the point at which the soil feature is not a limitation (0.00).

Rating Options
Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified
Tie-Break Rule: Higher

PREPARED BY: RON OSTERLOH, P.E.
Level II Certification #: 0000017136

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Project No.

REVISION DATES

CITY OF ATLANTA

ESPC GENERAL NOTES

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 51-01

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project consist of permanent vegetation, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, reinforcing Mats, and rip-rap where necessary. The post-construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters.

All temporary BMP's including silt fence shall be removed once the surrounding area has undergone final stabilization.

SILT FENCE INSTALLATIONS 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, or configuration, is commonly referred to as 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 Typicial Location Details for silt fences/baled straw. Spacing for J-Hooks shall not be less than 50 feet except as noted. Silt fences that are near the outlet of culverts, cross drains, and strorm drains shall have a minimum of three (3) J-Hooks on both sides of the structure at spacing not to exceed 30 feet. J-Hooks shall be paid for as silt fense items per foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

MAINTENANCE AND STABILIZATION MEASURES

See Special Provision 161 and 700 and other contract documents for maintenance and stabilization measures.

WASTE DISPOSAL

When 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 adn 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.

DE-WATERING ACTIVITIES AND USE OF PUMPS

Any pumped discharges from an excavation or disturbed area shall be rounted 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 their pumped discharges. The Contractor shall prepare sampling plans in accordance with the current GARI00002 NPDES permit utilizing by 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 applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

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

FERTILIZER / HERBICIDES - These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.

READY MIX CHUTE WASH-DOWN

The washing or 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 portland cement concrete delivery may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of Sate water buffers, at least 25 feet from any storm drain and outside of the travel way, including shoulders, for a wash / pit area. The pit shall be large enough to store all wash down water without overtipping the pit. 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 shall be graded to match the elevation of the surrounding aras smoothed out. 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 water pit location that includes the following: (1) the pit is located away from a storm drain, stream or river, (2) the pit is acceessible to the vehicle being used for wash-down (3) the pit has enough volume for wash-down water, and (4) make sure you have permission to use the area for wash-down. On some site, you may not have permission or access to a location which allows for a wash-down pit. In those cases, the Contractor may have to wash-down into a wheelbarrow or other container and carry the container for transport to a proper disposal site. For additional Information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide to Ready Mix Chute/Hopper Wash-down."

INSPECTIONS

All inspections shall be documented on the appropriate Department inspection forms. See 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 contract documents.

By agreement with Georgia EPD, the Department's Construction Project Engineer will be responsible for the seven day inspection required for new BMP installations.

NON-STORM WATER DISCHARGES

Non-storm water 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 contract documents.

All inspections shall be documented on form DOT-EC-1.

Daily:
Daily Inspections shall be conducted by the Worksite Erosion Control Supervisor (WECS) or qualified personnel on the following areas:

a. Petroleum product storage, usage and handling areas
b. All locations where vehicles enter/exit the site
c. Measure rainfall once each twenty four hour period at the site

Weekly and after Rainfall Events:

The following areas shall be inspected by the WECS or qualified personnel every seven (7) calendar days and within twenty-four (24) hours of the end of a rainfall event that is 0.5 inches or greater:

a. Disturbed areas not permanently stabilized
b. Material storage areas
c. Structural control measures (BMP's)

Within 7 calendar days after the initial installation of the erosion control devices required by the erosion control plan, the Engineer shall inspect the installation and condition of each device. This inspection shall be performed for each stage of construction when new devices are installed. All deficiencies shall be reported in writing to the Contractor and corrections shall be made within two business days.

Monthly:

Once per month, the WECS or qualified personnel shall inspect all areas where final stabilization has been completed. These areas shall be inspected for evidence of sediments or pollutants entering the drainage system and or receiving waters. Any erosion control devices that remain in place shall be inspected to verify the maintenance status and that the devices are functioning properly.

These inspections shall continue until the Notice of Termination 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 contract documents.

The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

Outfall ID	Total Drainage Area (Acres)	Disturbed Area (Acres)	Required Sediment Storage Volume (yd^3)	Total Storage Volume Provided (yd^3)	Silt Fence (0.187 yd^3/ft)		Inlet Sediment Traps (0.45 yd^3 each)	
					Linear Feet	Total Volume	# of Devices	Total Volume
R-1	0.69	0.11	46.23	100.45	530	99.1	3	1.35
A-1	4.11	0.82	275.37	203.35	1066	199.3	9	4.05
M-1	0.73	0.09	48.91	100.15	533	99.7	1	0.45

SEDIMENT STORAGE

The typical storage capacity of silt per linear foot of silt fence is 5.06 cubic feet or 0.187 cubic yards, given 4:1 average slopes. The approximate 2130 linear feet of silt fence can contain approximately 398 cubic yards of silt.

The BMP measures indicated in the plan provide adequate silt retention. The inlet sediment traps are one aspect of the BMP's. The Mulching and temporary grassing put down for temporary stabilization will help control runoff as well as the amount of silt it contains. Any runoff flowing away from the drainage structures on back slopes will be slowed and filtered by silt fence located at the toe of all fill slopes. This project is also a linear construction project. The drainage areas reflect the total area draining through the site. Often times there will only be limited disturbed areas at any given time, greatly reducing the required sediment storage volumes. In addition silt fence will be installed along the back of curb in areas where storm water travels offsite before reaching an inlet so as to control sediment runoff.

SEDIMENT BASINS

Sediment basins will not be provided but all erosion will be controlled thourgh other BMP's. The disturbance activities consist of shoulder grading, installing curb and gutter, installing sidewalk, and reconstructing driveways. The majority of these areas will not be openly disturbed at the same time . BMP's as shown on the erosion control plans will be adequate to control sediment runoff at these locations. Land disturbance activities associated with constructing and removing a sediment basin at these location would cause additional adverse impacts.

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

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an impared Stream Segment that has been listed for criteria violated, "Bio F" (impared Fish Community and / or "Bio M" (Impared Macro Invertebrate Community), within Category 4a, 4b, or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

STREAM BUFFER ENCROACHMENT

Stream Buffers are not impacted by this project.

Non-exempt activites shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.

*Warm water streams have a 25' minimum buffer as measured from the wrested vegetation.
Cold water streams have a 50' buffer as measured from the wrested vegetation.
** Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets.

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REVISION DATES

CITY OF ATLANTA

ESPC GENERAL NOTES

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 51-02

MONITORING GENERAL NOTES:

Representative sampling may be utilized on this project. The characteristics of the individual watersheds along the project corridor have been carefully evaluated and compared on the basis of drainage characteristics, watershed size, land disturbance and earth work. After evaluation of these items as presented in the projects drainage area maps, hydrology and hydraulic studies, construction plans and erosion sedimentation and pollution contol plans, it has been determined that the increase in turbidity at the specified locations will be representative of the increase in turbidity for all waters leaving the site. Approved primary and alternate representative monitoring sites are identified in the table:

RECEIVING WATER SAMPLING:

MANUAL SAMPLING:

Samples will be taken at the appropriate time as stated in Part IV.D.5.d. of the permit. Sampling will begin at the designated representative receiving water at the downstream location first. The sample will be taken as far downstream (within the project right of way) of the confluence of the last storm water discharge point, and upstream of any additional discharges not associated with the project. The sample will be taken in the center of the receiving water at a point where mixing of the receiving waters and the project outfall has occurred and produced a homogenous sample. On receiving waters where access to the center of the receiving waters is not practical, several samples from across the receiving waters will be taken and the arithmetic average of the turbidity of these samples will be used for the upstream value. A large mouth, clean, glass or plastic jar/bottle, labeled with project number and location will be used to collect the sample. The sample container will be held such that the opening faces upstream. Once the sample jar/bottle is full and capped, it will be transported to the location where the turbidity testing will be conducted. Samples may be analyzed at the site with properly calibrated portable turbidimeters. All turbidity tests will be conducted immediately but in no case, later than 48 hours after the time the sample was obtained.

Upstream samples will be taken after downstream samples have been acquired. The sample will be taken immediately upstream of the confluence of the first storm water discharge from the project (within the project right of way). The sample will be taken in the center of the receiving water. On receiving waters where access to the center of the receiving waters is not practical, several samples from across the receiving waters will be taken and the arithmetic average of the turbidity of these samples will be used for the upstream value. A large mouth, clean, glass or plastic jar, labeled with project number and location will be used to collect the sample. The sample container will be held such and location will be used to collect the sample. The sample container will be held such that the opening faces upstream. Once the sample jar/bottle is full and capped, it will be transported to the location where the turbidity testing will be conducted. All turbidity sample was obtained.

Sampling Guidance Document, "EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

1. Sample containers should be labeled prior to collecting the samples.
2. Samples should be well mixed before transferring to a secondary container.
3. Large mouth, clean and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
4. Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. Dilution of samples is not required. Samples may be analyzed using a direct reading, properly calibrated the minimum frequency stated in this permit must be reported to EPD asturbidmeter. Samples are not required to be collected.
5. Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.B.

(1). For construction activities the primary permittee must sample all receiving all water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

(a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm outfall channel(s).

(d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.

(e). The sampling container should be held so that the opening faces upstream.

(f). The samples should be kept free from floating debris.

(g). Permittees do not have to sample sheetflow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or equivalent permanent stabilization measures (such as the use of rip rap, gablons, permanent mulches or geotextiles) have been used. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; a crop of perennial vegetation appropriate for the time of year and region; or a crop of annual vegetation and a seeding of target crop perennials appropriate for the region. Final stabilization applies to each phase of construction.

(h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the facility/site is in compliance with the standard set forth in Parts III.C.3. or III.C.4., whichever is applicable.

AUTOMATIC SAMPLING:

Samples will be taken at the appropriate times as specified in Part IV.D.5.d. of the permit. Automatic sampling can be accomplished at both upstream and downstream simultaneously by using a sampling device similar to the Isco Model 3700 or 6700. These devices can be triggered by flow meters or rain gages to obtain the required samples. This determination will be made on a project by project basis. The probe for the automatic sampler will be placed in the center of the receiving water at a point as far downstream of the confluence of the last storm water discharge point and upstream of any additional discharges not associated with the project. Samples will remain in the automatic sampler until the next business day, when they will be collected and tested.

The probe for upstream sampling will be positioned immediately upstream of the confluence of the first storm water discharge point from the project. The probe will be placed in the center of the receiving water. Samples will remain in the automatic sampler until the next business day, when they will be collected and tested.

TESTING:

All turbidity tests shall be done in accordance with 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD. Turbidity results will be recorded and reported to EPD in accordance with Part IV.E of the permit.

OUTFALL SAMPLING:

MANUAL SAMPLING:

Samples will be taken at the appropriate time as stated in Part IV.D.5.d. of the permit. Sampling will occur at the designated representative outfall. The sample will be taken in the center of the outfall channel. A large mouth, clean, glass or plastic jar/bottle, labeled with project number and location will be used to collect the sample. The sample container will be held such that the opening faces upstream. Once the sample jar/bottle is full and capped, it will be transported to the location where the turbidity testing will be conducted. Samples may be analyzed at the site with properly calibrated portable turbidimeters. All turbidity tests will be conducted immediately but in no case, later han 48 hours after the time the sample was obtained.

AUTOMATIC SAMPLING:

Samples will be taken at the appropriate times as specified in Part IV.D.5.d. of the permit. Automatic sampling can be accomplished by using a sampling device similar to the Isco Model 3700 or 6700. These devices can be triggered by flow meters or rain gages to collect the required samples. This determination will be made on a project by project basis. The probe for the automatic sampler will be placed in the center of the outfall channel. Samples will remain in the automatic sampler until the next business day, when they will be collected and tested.

TESTING:

All turbidity tests shall be done in accordance with 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD. Turbidity results will be recorded and reported to EPD in accordance with Part IV.E of the permit.

NTU (Appendix B Rationale)

This project has a total size of 7.36 acres. The surface water drainage area for the outfall to be monitored has a drainage area of 0.0063 square miles. The receiving waters for this outfall is Proctor Creek. The NTU value selected from Appendix B for the above noted facility and the surface water drainage area is 75 NTU.

For this project 905+89.16' LT shall be the representative sampling point. A representative from the Department's Office of Environmental Compliance will be responsible for selecting alternate monitoring locations within the active phase of construction, when the designated site is not within the active phase of construction.

An increase in the turbidity of a specific identified receiving water to be sampled will be representative of the increase in the turbidity of a specific identified un-sampled receiving water.

RECEIVING WATERS & CRITICAL AREAS

The receving waters for this project is Proctor Creek.
Monitoring of Water shall be conducted at Drainage structure A-1 to determine the NTS values of storm water before it travels off site.

Monitoring site	Primary or Alternate Site	Location (Sta. and Side)	Name of Receiving water	Applicable construction stage for monitoring	Sampling Type (Outfall or Receiving Water)	Drainage Area	Disturbed Area	Warm or Cold water Stream	Appendix B NTU value (outfall Monitoring Only)	Allowable NTU increase (For Receiving Water)	Location Description
1.	Primary	905+89 16' LT	PROCTOR CREEK	INTERMEDIATE	OUTFALL	4.03	.82	WARM	75		DRAINAGE STRUCTURE A-1
2.	Alternate	442+81, 38.5' RT	PROCTOR CREEK	INTERMEDIATE	OUTFALL	0.44	0.11	WARM	75		DRAINAGE STRUCTURE R-1
3.	Alternate	419+51, 49.6' LT	PROCTOR CREEK	INTERMEDIATE	OUTFALL	4.03	.82	WARM	75		DRAINAGE STRUCTURE A-4

The primary site specified should be used as the initial sampling location. The alternate sampling sites may be used if additional sampling is required and / or if the primary sampling site is no longer located within the active phase of construction.

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REVISION DATES

CITY OF ATLANTA

ESPC GENERAL NOTES

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 51-03

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: _____

Project Name: Bolton Rd at Marietta Blvd Address: _____

City/County: Fulton County Date on Plans: _____

TO BE SHOWN ON ES&PC PLAN Revised January 1, 2009

Plan Page #	Included Y/N	
51-04	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.
50-01	Y	2. Level II certification number issued by the Commission, signature and seal of the certified design professional. **(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed**
50-01	Y	3. Name and phone number of 24-hour local contact responsible for erosion, sedimentation and pollution controls.
50-01	Y	4. Provide name, address and phone number of primary permittee.
53-01	Y	5. Note total and disturbed acreage of the project or phase under construction.
50-01	Y	6. Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these areas.
50-01	Y	7. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
54-01 TO 54-24	Y	8. Graphic scale and north arrow.
54-01 TO 54-24	Y	9. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours: USGS 1" : 2000' topographical sheets; Proposed Contours: 1" : 400' centerline profile
53-01	Y	10. Delineation and acreage of contributing drainage basins on the project site.
55-01	Y	11. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
55-01	Y	12. Delineation of the applicable 25-foot or 50-foot undisturbed buffers along adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
55-01	Y	13. Delineate sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.
53-01	Y	14. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-01	Y	15. Soil series for the project site and their delineation.
51-03	Y	16. Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
51-02	Y	17. 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 Biota Impared 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.
50-01	Y	18. Certification statement and signature of the Design Professional that Georgia's 2008 or subsequent 305(b)/303(d) List Documents (Final) have been consulted to determine if the project site is or is not applicable to item 17 above.
55-01	Y	19. Delineate on-site drainage and off-site watersheds using USGS 1" : 2000' topographical sheets.
50-01	Y	20. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
54-01 to 54-24	Y	21. Limits of disturbance for each phase of construction.
51-02	Y	22. 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 rationale 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. Worksheets from the Manual must be included for structural BMP's and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls.
54-01 to 54-24	Y	23. 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.gaswcc.org.
51-02	Y	24. Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust.
51-02	Y	25. 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.
51-01	Y	26. Provide BMPs for the remediation of all petroleum spills and leaks.
54-01 to 54-24	Y	27. 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.
51-01	Y	28. Description of the nature of construction activity.
54-01 to 54-24	Y	29. A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control MBPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs.
51-01	Y	30. 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 BMP's, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
54-01 to 54-24	Y	31. Description of the practices that will be used to reduce the pollutants in storm water discharges.
54-01 to 54-24	Y	32. 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.
50-01	Y	33. 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.
50-01	Y	34. 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 14 of the permit.
50-01	Y	35. Certification statement and signature of the permittee or the duly authorized representative as stated in section V.G2.d. of the state general permit.
53-01	Y	36. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-02	Y	37. Indication that non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.
51-02	Y	38. Indication that 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.
51-01	Y	39. Indication that amendments/revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.
51-02	Y	40. Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 Permit.
51-02	Y	41. Documentation that the ES&PC Plan is in compliance with waste disposal, sanitary sewer, or septic tank regulations during and after construction activities have been completed.
51-02	Y	42. Provide complete requirements of inspections and record keeping by the primary permittee.
51-03	Y	43. Provide complete requirements of sampling frequency and reporting of sampling results.
		44. Provide complete details for retention of records as per Part IV.F. of the permit.
51-03	Y	45. Description of analytical methods to be used to collect and analyze the samples from each location.
51-03	Y	46. Appendix B rationale for outfall sampling points where applicable.
51-01	Y	47. Cleary note statement in bold letters-"The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land disturbing activities."
51-01	Y	48. Cleary note maintenance statement in bold letters - "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
51-01	Y	49. Clearly note the statement in bold letters - "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
51-07 TO 51-09	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.
51-05 TO 51-07	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.

MULCHING MATERIAL
1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage
2. Wood waste (chips, sawdust, or bark) shall be applied at a depth of 2 to 3 inches organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch.
3. Cutback asphalt (slow curing) shall be applied at 1200 gallons per acre (or 1/4 gallon per sq.yd.)
4. Polyethylene film shall be secured overbanks or stockpiled soil material for temporary protection.

APPLYING MULCH
1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 punds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by decomposition of the organic mulches.
3. Cutback asphalt shall be applied uniformly. Care should be taken in areas of pedestrian traffic due to problems of "tracking in" or damage to shoes, clothing, etc.
4. Apply polyethylene film on exposed areas.

ANCHORING MULCH
1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be used smooth or serrated and sholuld be 20 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application. Straw or hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (grade AE-5 or SS-1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. Use 100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifers and binders can be substituted for emulsified asphalt. Please refere to specification Tb Tackifers and Binders. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufactureer's specifications.
2. Netting or the appropriate size shall be used to anchor wood waste. Opening of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

INSTALLATION NOTES:
1. Install all other required BMP's first.
2. Grade site, if possible, to permit the use of equipment for applying and anchoring mulch.
3. Loosen compacted soil, if possible, to a depth of 3 inches.
4. Apply straw or hay uniformly, as shown in Table 1, by hand or mechanical equipment, and anchor by pressing into soil or using netting.
5. Mulch on slopes greater than 3% should be anchored with emulsified asphalt (Grade AE-5 or SS-1) other suitable tackifier.
6. Wood wasate on slopes flatter than 3:1 do not need anchoring.
7. Mulch shall be applied to all disturbed areas left inactive for fourteen days.

MAINTENANCE NOTES:
1. Add mulch as needed to maintain the suggested depth.
2. If organic mulch is to be left and incorporated into the soil, apply 20-30 pounds of nitrogen in addition to the fertilizer required for vegetation.

TABLE 1. Mulching Application Requirements

MATERIAL	RATE	DEPTH
Straw or hay	▪	2" to 4"
Wood waste, chips, sawdust, bark	▪	2" to 3"
Cutback asphalt	1200 gal./acre, 1/4 gal./sq.yd./ or see manufacturer's recommendations	-
Polyethylene film	Secure with soil, anchors, weights	-
Geotextiles, jute matting, netting, etc.	See manufacturer's recommendations	-

DISTURBED AREA STABLIIZATION (WITH MULCHING ONLY) Ds1

SCALE: NTS

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REVISION DATES

CITY OF ATLANTA

ESPC GENERAL NOTES

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 51-04

Species	Broadcast Rates - PLS Per Acre	Broadcast Rates - PLS Per 1000 sq. ft.	Planting Dates (Solid lines indicate optimum dates, dotted lines indicated permissible but marginal dates.) J F M A M J J A S O N D
BARLEY (Hordeum vulgare) alone in mixtures	3 bu. (144 lbs.) ½bu. (24 lbs.)	3.3 lb. 0.6 lb.	
LESPEDEZA, ANNUAL (lespedeza stríata) alone in mixtures	40 lbs. 10 lbs.	0.9 lb. 0.2 lb.	
LOVEGRASS, WEEPING (Eragrostis curvula) alone in mixtures	4 lbs. 2 lbs.	0.1 lb. 0.05 lb.	
MILLET, BROWNTOP (Panclum fasciculatum) alone in mixtures	40 lbs. 10 lbs.	0.9 lb. 0.2 lb.	
MILLET, PEARL (Pennesetum glaucum) alone	50 lbs.	1.1 lb.	
OATS (Avena sativa) alone in mixtures	4 bu. (128 lbs.) 1 bu. (32 lbs.)	2.9 lb. 0.7 lb.	
RYE (Secale cereale) alone in mixtures	3 bu. (168 lbs.) ½bu. (28 lbs.)	3.9 lb. 0.6 lb.	
RYEGRASS, ANNUAL (Lolium temulentum) alone	40 lbs.	0.9 lb.	
SUDANGRASS (Sorghum sudanese) alone	60 lbs.	1.4 lb.	
WHEAT (Triticum aestivum) alone in mixtures	3 bu. (180 lbs.) ½bu. (30 lbs.)	4.1 lb. 0.7 lb.	

TEMPORARY SEEDING

SEEDBED PREPARATION: When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall. When soil has been sealed by rainfall or consists of smooth undisturbed cut slopes, the soil shall have pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

LIME AND FERTILIZER: Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate of one ton per acre. Graded areas require lime application. Soils can be tested to see if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer of the equivalent per acre (12-16 LBS/1000 sq.ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

SEEDING: Refer to temporary seeding chart this page. Apply seed uniformly by hand, cyclone seeder, drill, cultipacker-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Approximate depth of plantings is ten times the seed diameter. Soil should be raked lightly to cover seed with soil if seeding by hand.

MULCHING: Apply 2.5 tons of dry pine straw per acre of seeded area.

TABLE 1. SOME TEMPORARY PLANT SPECIES, SEEDING RATES AND PLANTING DATES

Species	Rates per 1,000 sq. ft.	Rates per Acre	Region M-L (Mountain, Blue Ridge, Ridges and Valley)	Region P (Southern Piedmont	Region C (Southern Coastal Plain, Sand Hills, Black Lands, and Atlantic Coastal Flatwoods)
Barley alone Barley, in mixtures	3.3 lbs. 0.6 lbs.	3 bu. 0.5 bu.	9 Sept. - 31 Oct.	15 Sept. - 15 Nov.	1 Oct. - 31 Dec.
Lespedeza, Annual Lespedeza, in mixtures	0.9 lbs. 0.2 lbs.	40 lbs. 10 lbs.	1 Mar. - 31 Mar.	1 Mar. - 31 Mar.	1 Feb. - 28 Feb.
Lovegrass, weeping Lovegrass, in mixtures	0.1 lbs. 0.05 lbs.	4 lbs. 2 lbs.	1 Apr. - 31 May	1 Apr. - 31 May	1 Mar. - 31 May
Millet, browntop Millet, in mixtures	0.9 lbs. 0.2 lbs.	40 lbs. 10 lbs.	15 Apr. - 15 Jun.	15 Apr. - 30 Jun.	15 Apr. - 30 Jun.
Millet, pearl	1.1 lbs.	50 lbs.	15 May - 15 Jul.	1 May - 31 Jul.	15 Apr. - 15 Aug.
Oats, alone Oats, in mixtures	2.99 lbs. 0.7 lbs.	4 bu. 1 bu.	15 Sept. - 15 Nov.	15 Sept. - 15 Nov.	15 Sept. - 15 Nov.
Rye (grain), alone Rye, in mixtures	3.9 lbs. 0.6 lbs.	3 bu. 0.5 bu.	15 Aug. - 31 Oct.	15 Sept. - 30 Nov.	1 Oct. - 31 Dec.
Ryegrass	0.9 lbs.	40 lbs.	15 Aug. - 15 Nov.	1 Sept. - 15 Dec.	15 Sept. - 31 Dec.
Sudangrass	1.4 lbs.	60 lbs.	1 May - 31 Jul.	1 May - 31 Jul.	1 Apr. - 31 Jul.
Triticale, alone Triticale, in mixtures	3.3 lbs. 0.6 lbs.	3 bu. 0.5 bu.	-	-	15 Oct. - 30 Nov.
Wheat, alone Wheat, in mixtures	4.1 lbs. 0.7 lbs.	3 bu. 0.5 bu.	15 Sept. - 30 Nov.	1 Oct. - 15 Dec.	15 Oct. - 31 Dec.

1. Unusual side conditions may require heavier seeding rates.
2. Seeding dates may need to be altered to fit temperature varations and local conditions.
3. For major land resource areas (MLRAs), see "TACKIFIERS AND BINDERS" of the Manual for Erosion and Sediment Control in Georgia, latest edition.
4. Seeding rates are based on pure live seed (PLS).

TABLE 2. FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	N Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	-
	Maintenance	10-10-10	400	30
Cool season grasses and legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	-
	Maintenance	0-10-10	400	-
Temporary cover crops seeded alone	First	10-10-10	500	30
Warm season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30

INSTALLATION NOTES:

1. Install all ES&PC measures prior to applying temporary vegetation.
2. Grading or shaping are not required if slopes can be planted with a hydroseeder or by hand-seeding.
3. Seedbed preparation is not required if soil is loose and not sealed by rain.
4. When the soil is sealed or crusted, it should be pitted, trenched or scarified to provide a place for seed to lodge and germinat.
5. Agricultural lime is not required.
6. Fertilize low fertility soils prior to or during planting at the rate of 500-700 LBS./ acre of 10-10-10 or equivalent (12-16 LBS./ 1000 sq.ft.).
7. It is imperative that you check the tag on the bag of seed to verify the type and germination of the seed to be planted.
8. Apply seed by hand, cyclone seeder, drill or hydro-seeder. Seed planted with a drill should be planted $^1/_4$" - $^1/_2$" deep.
9. Apply in accordance with specifications on the ES&C plan. If information is not available, select a temporary cover from Table 1.
10. Temporary cover shall be applied to all disturbed areas left idle for 14 days. (If an area is left idle for 6 months, permanent cover shall be applied.)

MAINTENANCE NOTE:

Re-seed areas where an adequate stand of temporary vegetation fails to emerge orwhere a poor stand exists.

SEEDING SCHEDULE
TEMPORARY COVER

Ds2

SCALE: NTS

PREPARED BY: RON OSTERLOH, P.E.
Level II Certification #: 0000017136

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Project No.

REVISION DATES

CITY OF ATLANTA

ESPC GENERAL NOTES

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 51-05

Species	Broadcast Rates - PLS Per Acre	Broadcast Rates - PLS Per 1000 sq. ft.	Broadcast Rates - PLS Per Acre	Planting Dates (Solid lines indicate optimum dates, dotted lines indicated permissible but marginal dates.) J F M A M J J A S O N D
BAHIA, * (Paspalum notatum) alone or w/temporary cover w/other perennials	60 lbs. 30 lbs.	1.4 lb. 0.7 lb.	P C	
BERMUDA, SPRIGS (Cynodon dactylon) Coastal, Common, or Tift 44	40 cu. ft. or sod plugs 3'x3'	0.9 cu. ft.	0.9 cu. ft.	
BERMUDA, COMMON (Cynodon dactylon) alone w/other perrenials	10 lbs. 6 lbs.	0.2 lb. 0.1 lb.	0.2 lb. 0.1 lb.	Hulled seed Unhulled seed
FESCUE, TALL (Festuca arundinacea) alone w/other perrenials	50 lbs. 30 lbs.	1.1 lb. 0.7 lb.	1.1 lb. 0.7 lb.	
CROWNVTECH (Coronilla varia) w/winter annuals or cool season grasses	15 lbs.	0.3 lb.	0.3 lb.	
REED CANARY GRASS (Phariaris arundinacea) alone w/other perrenials	50 lbs. 30 lbs.	1.1 lb. 0.7 lb.	1.1 lb. 0.7 lb.	
CENTIPEDE (Eremochloa ophiuroides)	Black sod only			
KUDZU (Pueraria thumbergiana) plants or crowns	3' - 7' apart			
LOVEGRASS, WEEPING (Eragrostis curvula) alone w/other perrenials	4 lbs. 2 lbs.	0.1 lb. 0.05 lb.	0.1 lb. 0.05 lb.	
LESPEDEZA, SERICEA (Lespedeza cuneata) scarified unscarified seed-bearing hay	60 lbs. 75 lbs. 3 tons	1.4 lb. 1.7 lb. 138 lb.	1.4 lb. 1.7 lb. 138 lb.	

* BAHIA, PENSACOLA
* BAHIA, WILMINGTON

NOTE:
1. YOU MAY USE ANY OTHER SPECIES IF APPROVED BY "MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION.
2. ALL FERTILIZER RATE AND APPLICATION, SEED QUALITY, SEEDBED PREPERATION, INNOCULANTS, PLANTING, AND MULCHING SHALL COMPLY WITH MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
3. DO NOT USE KUDZU ON THIS PROJECT.

TABLE 1. PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER

Species	Rates per acre	Rates per 1,000 sq. ft.	Region M-L (Mountain, Blue Ridge, Ridges and Valley)	Region P (Southern Piedmont)	Region C (Southern Coastal Plain, Sandhills, Black Lands and Atlantic Coastal Flatwoods)	Remarks
Bahia, Pensacola Alone or with temporary cover With other perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lb.	-	1 Apr. - 31 May	1 Mar. - 31 May	166,000 seed per pound; low growing; sod forming; slow to establish; plant with a companion crop; will spread into bermuda pastures and lawns; mix with sericea lespedeza or weeping
Bahia, Wilmington Alone or with temporary cover With other perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lb.	15 Mar. - 31 May	1 Mar. - 31 May	-	lovegrass Same as above
Bermuda, Common (Hulled Seed) Alone With other perennials	10 lbs. 6 lbs.	0.2 lb. 0.1 lb.	-	1 Apr. - 31 May	15 Mar. - 31 May	1,781,000 seed per pound; quick cover; low growing; sod forming; needs full sun; good for athletic fields
Bermuda, Common (Unhulled seed) With temporary cover With other perennials	10 lbs. 6 lbs	0.2 lb. 0.1 lb	-	1 Oct. - 28 Feb.	1 Nov. - 31 Jan.	Plant with Winter annuals Plant with Tall Fescue
Bermuda Sprigs (Cynodon dactylon) Coastal, Common Midland, or Tift 44	40 cu. ft	0.9 cu. ft	15 Apr. - 15 Jun.	1 Apr. - 31 May	1 Apr. - 31 May	1 cu. ft. = 650 sprigs 1 bu. = 1.25 cu. ft. or 800 sprigs
Coastal, Common or Tift 44 Tift 78	Sod plugs 3' x 3'					same as above Southern Coastal Plain only.
Centipede	Black Sod only		-	1 Nov. - 31 May	1 Nov. - 31 May	Drought tolerant. Full sun or partial shade.
Crown Vetch With winter annuals or cool season grasses	15 lbs.	0.3 lb.	1 Sept. - 15 Oct.	1 Sept. - 15 Oct.	-	Mix with 30 lbs. Tall Fescue or 15 lbs. Rye; inoculate seed; plant only North of Atlanta.
Fescue, Tall Alone With other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lb.	1 Mar. - 15 Apr. or 15 Aug. - 15 Oct.	1 Sept. - 15 Oct.	-	Can be mixed with perennial Lespedezas or Crown Vetch; not for droughty soils or heavy use areas.
Kudzu (Pueraria thumbergiana) plants or crowns	3'-7' apart		1 Jan. - 15 Mar.	1 Jan. - 15 Mar.	1 Jan. - 15 Mar.	Rapid and vigorous growth; excellent in gully erosion control; will climb; good livestock forage
Lespedeza, Sericea Scarified	60 lbs.	1.4 lbs.	1 Apr. - 31 May	15 Mar. - 31 May	1 Mar. - 15 May	Widely adapted and low maintenance; takes 2-3 years to establish; inoculate seed with EL inoculant; mix with Weeping Lovegrass, Common Bermuda, Bahia or Tall Fescue.
Unscarified	75 lbs.	1.7 lbs.	1 Sept. - 28 Feb	1 Sept. - 28 Feb	1 Sept. - 28 Feb.	Mix with Tall Fescue or winter annuals.
Seed-bearing hay	3 tons	138 lbs.	1 Oct. - 28 Feb.	1 Oct. - 31 Jan.	15 Oct. - 15 Jan.	Cut when seed is mature but before it shatters. Add Tall Fescue or winter annuals.
Lespedeza, Ambro Virgata or Appalow Scarified	60 lbs.	1.4 lbs.	1 Apr. - 31 May	15 Mar. - 31 May	1 Mar. - 15 May	Spreading growth with height of 18"-24"; good in urban areas; slow to develop good stands; mix with Weeping Lovegrass, Common Vermuda, Bahia, Tall Fescue or winter annuals; do not mix with Sericea Lespedeza; inoculate seed with EL inoculant.
Unscarified	75 lbs.	1.7 lbs.	1 Sept. - 28 Feb.	1 Sept. - 28 Feb	1 Sept. - 28 Feb.	
Lespedeza, Shrub (Lespedeza Bicolor or Lespedeza Thumbergii) Plants	3' x 3' spacing		1 Oct. - 31 Mar.	1 Nov. - 15 Mar.	15 Nov. - 28 Feb.	Plant in small clumps for wildlife food and cover.
Lovegrass, Weeping Alone With other perennials	4 lbs. 2 lbs.	0.1 lb. 0.05 lb.	1 Apr. - 31 May	15 Mar. - 31 May	1 Mar. - 31 May	Quick cover; drought tolerant; grows well with Sericea Lespedeza on road-banks and other steep slopes; short lived.
Maidencane Sprigs	2' x 3' spacing		1 Feb. - 31 Mar.	1 Feb. - 31 Mar.	1 Feb. - 31 Mar.	For very wet sites such as riverbanks and shorelines. Dig sprigs locally.
Panicgrass, Atlantic Coastal	20 lbs.	0.5 lbs.	-	1 Mar. - 30 Apr.	1 Mar. - 30 Apr.	Grows well on coastal sand dunes; mix with Sericea Lespedeza but not on sand dunes.
Reed Canary Grass With other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lbs.	15 Aug. - 15 Oct	1 Sept. - 15 Oct.	-	Grows similar to Tall Fescue; for wet sites.
Sunflower, Aztec Maximilian	10 lbs.	0.2 lbs.	15 Apr. - 31 May	15 Apr. - 31 May	1 Apr. - 31 May	Mix with Weeping Lovegrass or other low growing grasses or legumes.

NOTES:
1. RATES ARE FOR BROADCASTED SEED. IF A SEED DRILL IS USED, REDUCE THE RATES BY ONE-HALF.
2. PLS IS AN ABBREVIATION FOR PURE LIVE SEED.
3. SEEDING RATES ARE BASED ON PURE LIVE SEEDS.

TABLE 2. FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

Type of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	N Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	-
	Maintenance	10-10-10	400	30
Cool season grasses and legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	-
	Maintenance	0-10-10	400	-
Ground covers	First	10-10-10	1300	-
	Second	10-10-10	1300	-
	Maintenance	10-10-10	1100	-
Pine seedlings	First	20-10-5	one 21-gram pellet per seeding placed in the closing hole	-
Shrub Lespedeza	First	0-10-10	700	-
	Maintenance	0-10-10	700	-
Temporary cover crops seeding alone	First	10-10-10	500	30
Warm season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30
Warm season grasses and legumes	First	6-12-12	1500	50
	Second	0-10-10	1000	-
	Maintenance	0-10-10	400	-

1/ APPLY IN SPRING FOLLOWING SEEDING.
2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
3/APPLY IN 3 SPLIT APPLICATIONS.
4/APPLY WHEN PLANTS ARE PRUNED.
5/ APPLY TO GRASS SPECIES ONLY.
6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

PERMANENT SEEDING:
SEEDBED PREPARATION: TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED,SPRIGS, OR PLANTS; ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.AREA TO BE SEEDED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3". THE TOP LAYER SHALL BE LOOSENED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. IN LIEU OF SOIL TEST RESULTS, APPLY 50 LBS. OF DOLOMITIC LIMESTONE AND 25 LBS. OF 10-10-10 FERTILIZER PER 1,000 SQUARE FEET. HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3" ON SLOPES FLATTER THAN 3:1.
SEEDING: REFER TO PERMANENT SEEDING CHART THIS PAGE. APPLY SEED UNIFORMLY WITH A CULTIPACKER SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, HAND SEEDER. COVER THE SEED LIGHTLY WITH¼" TO¼" OF SOIL FOR SMALL SEED AND½" TO 1" FOR LARGE SEED WHEN USING ACULTIPACKER OR OTHER SUITABLE EQUIPMENT. IRRIGATE UNTIL VEGETATION IS FIRMLY ESTABLISHED IF SOIL MOISTURE IS NOT SUFFICIENT TO SUPPORT ADEQUATE GROWTH.
MULCHING: STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. APPLY 2.5 TONS OF DRY PINE STRAW PER ACRE OF SEEDED AREA.

INSTALLATION NOTES:
1. USE CONVENTIONAL PLANTING METHODS, WHERE POSSIBLE.
2. APPLY ACCORDING TO APPROVED PLAN, IF SHOWN, OR REFER TO TABLE 1.
3. CHECK THE TAG ON THE BAG OF SEED TO VERIFY THE TYPE AND GERMINATION OF THE SEED TO BE PLANTED ANDTHE DATE OF THE TEST.
4. SCARIFY, PIT OR TRENCH SEALED OR CRUSTED SOIL.
5. FERTILIZE BASED ON SOIL TESTS OR AS SHOWN IN TABLE 2.
6. APPLY AGRICULTURAL LIME AS PRESCRIBED BY SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE.
7. APPLY SEED BY HAND, CYCLONE SEEDER, DRILL OR HYDRO-SEEDER. SEED PLANTED WITH A DRILL SHOULD BE PLANTED¼"-1/2" DEEP.
8. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2 OR 2.5 TONS PER ACRE.
9. IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL, BUT NOT TO THE EXTENT TO CAUSE EROSION.

SEEDING SCHEDULE
PERMANENT COVER

Ds3

SCALE: NTS

PREPARED BY: RON OSTERLOH, P.E.
Level II Certification #: 0000017136

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Project No. .

REVISION DATES

CITY OF ATLANTA

ESPC GENERAL NOTES

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 51-06

3/1/2007 GPLN

Sodding

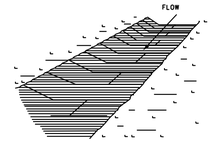
Soil Preparation:
Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces or gravel type soils. Topsoil properly applied will help guarantee a stand. Don't use topsoil recently treated with hericides or soil sterilants. Mix fertilizer intosoil surface. Fertilize based on soil test or according to Chart. Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Installation:
Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod. On slopes steeper than 3:1, sod should be anchored with pins or other approved methods. Installed sod should be rolled or tamped to provide good contact between sod and soil. Irrigate sod and soil to a depth of 4" immediately after installation. Sod should not be cut or spread in extremely wet or dry weather. Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

Materials:
Sod selected should be certified. Sod grown in the general area of the project is desirable.

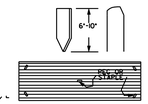
1. Sod should be machine cut and contain 3/4" (+ or -1/4") of soil, not including shoots or thatch.
2. Sod should be cut to the desired size within + or -5%. Torn or uneven pads should be rejected.
3. Sod should be cut and installed within 36 hours of digging.
4. Avoid planting when subject to frost heave or hot weather if irrigation is not available.
5. The sod type should be shown on the plans or installed according Sod Planting Requirements Table.

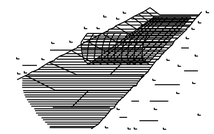
Maintenance:
Re-sod areas where an adequate stand of sod is not obtained. New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified. Apply one ton of agricultural lime as indicated by soil tests or every 4-6 years. Fertilize grasses in accordance with soil tests or Fertilizer Requirements for Sod Table.



LAY SOD ACROSS THE DIRECTION OF FLOW.

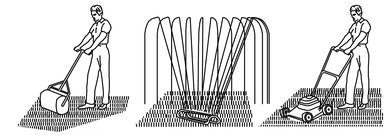
USE PEGS OR STAPLES TO FASTEN SOD FIRMLY - AT THE ENDS OF STRIPS AND IN THE CENTER, OR EVERY 3-4 FEET IF THE STRIPS ARE LONG. WHEN READY TO MOW, DRIVE PEGS OR STAPLES FLUSH WITH THE GROUND.





IN CRITICAL AREAS, SECURE SOD WITH NETTING. USE STAPLES.

SODDED WATERWAYS

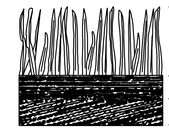


ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



SHOOTS - OR GRASS BLADES. GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH - GRASS CLIPPINGS AND DEAD LEAVES. UP TO 1/2" THICK.

ROOT ZONE - SOIL AND ROOTS SHOULD BE 1/2" - 3/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH.

SODDING

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING -ANGLED ENDS CAUSED BY THE AUTO - MATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tifdwarf	M-L, P, C P, C P, C P, C	NTS Warm Weather
Bahiagrass	Pensacola	P, C	Warm Weather
Centipede	-	P, C	Warm Weather
St. Augustine	Common Bitterblue Raleigh	C	Warm Weather
Zoysia	Emerald Meyer	P, C	Warm Weather
Tall Fescue	Kentucky	M-L, P	Cool Weather

Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs. / acre)	Nitrogen Top Dressing Rate (lbs. / acre)
Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 - 30
Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

Fertilizer Requirements for Soil Surface Application

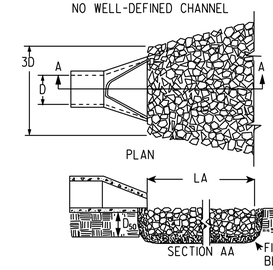
Fertilizer Type	Fertilizer Rate (lbs. / acre)	Fertilizer Rate	Season
10-10-10	1000	0.025	Fall

SEEDING SCHEDULE
PERMANENT COVER (SOD)

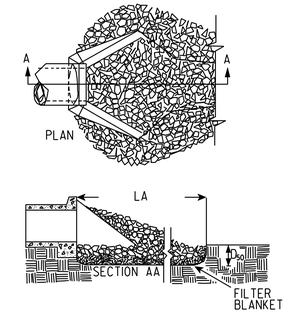
Ds4

SCALE: NTS

PIPE OUTLET TO FLAT AREA-
NO WELL-DEFINED CHANNEL



PIPE OUTLET TO WELL-DEFINED
CHANNEL



NOTES

1. LA IS THE LENGTH OF THE RIPRAP APRON.
2. D_{50}= 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OF TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

St

STORM DRAIN
OUTLET PROTECTION

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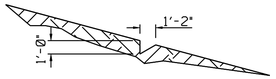
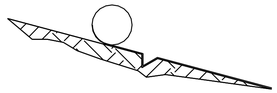
UPSTREAM TERMINAL

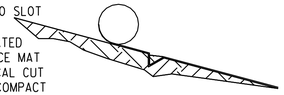
STEP 1: CUT TERMINAL SLOT



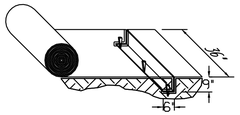
STEP 2: SNUG MAT INTO SLOT



STEP 3:
A. STAKE MAT INTO SLOT
B. USE 1"x3" PRESSURE-TREATED BOARD TO BRACE MAT AGAINST VERTICAL CUT
C. BACKFILL AND COMPACT



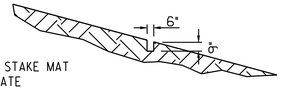
STEP 4:
A. REVERSE MAT DIRECTION TO OVERLAY CHECK SLOT
B. STAKE MAT TO ANCHOR TERMINAL



PICTORAL VIEW OF TRANSVERSE SLOT

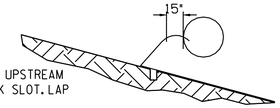
TRANSVERSE CHECK SLOT

STEP 1: CUT CHECK SLOT



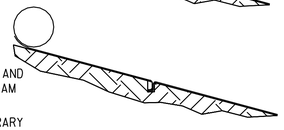
TEMPORARILY STAKE MAT UNDER MODERATE TENSION

STEP 2: WORK UPSTREAM ACROSS CHECK SLOT. LAP BACK 15"



STEP 3: TUCK MAT INTO SLOT & STAKE

STEP 4: BACKFILL AND PROGRESS UPSTREAM

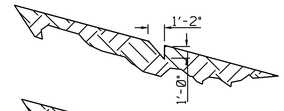


PULL OUT TEMPORARY STAKES WHEN NO LONGER NEEDED FOR TENSIONING

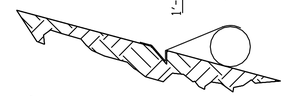
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
5. USE 3' OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

DOWNSTREAM TERMINAL

STEP 1: CUT TERMINAL SLOT

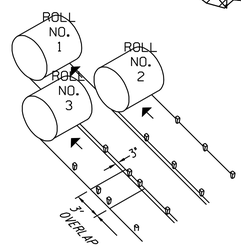


STEP 2: STAKE MAT INTO SLOT



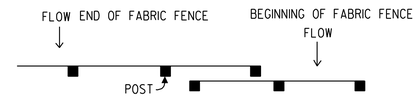
STEP 3: BACKFILL TERMINAL SLOT

STEP 4:
A. ROLL MAT UPSTREAM OVER REFILLED TERMINAL.
B. STAKE MAT DOWN TO ANCHOR TERMINAL
C. PROGRESS UPSTREAM WITH ROLL.



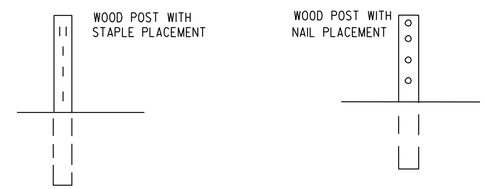
SEQUENTIAL ROLL RUN OUT IN CHANNELS

Mb EROSION CONTROL BLANKETS AND MATTING



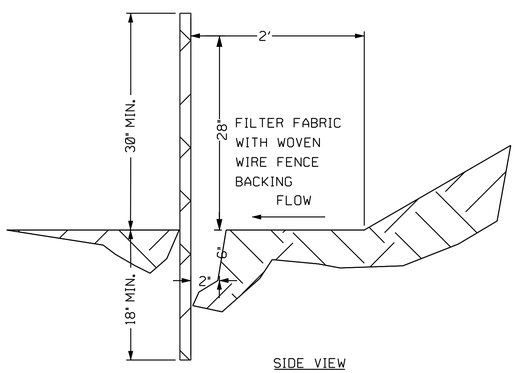
TOP VIEW - (NOT TO SCALE)

OVERLAP AT FABRIC ENDS

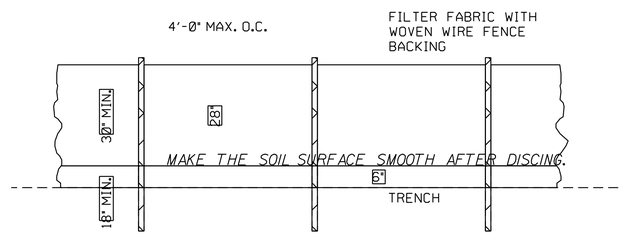


FRONT VIEWS

FASTENERS FOR SILT FENCE



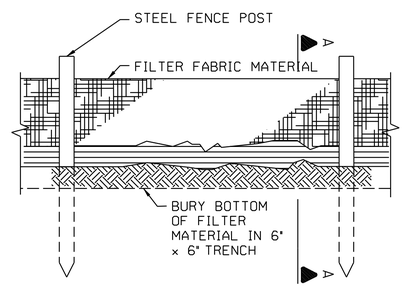
SIDE VIEW

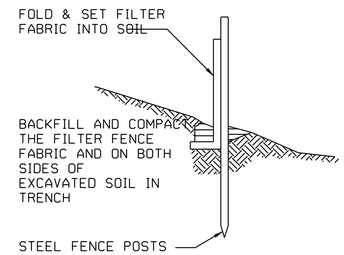


FRONT VIEW

NOTE:
USE 36" D.O.T. APPROVED FABRIC.
USE STEEL POSTS - ONLY.

Sdl SILT FENCE





SECTION A-A

NOTE:
1. FABRIC SHALL RETAIN 85% OF SOIL. BASED ON SIEVE ANALYSIS, BUT NOT FINER THAN OPENING SIZE 70.
2. SILT FENCE MATERIAL WILL MEET GDOT SPECIFICATIONS.

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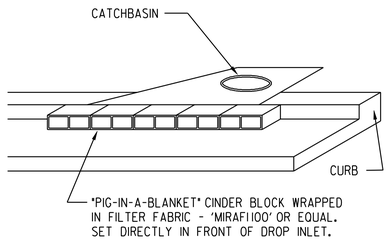
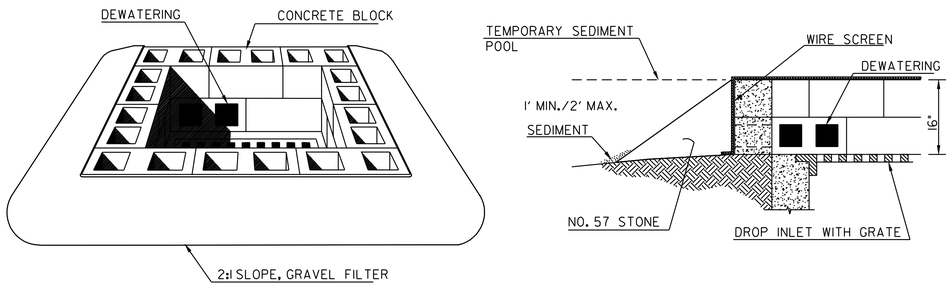
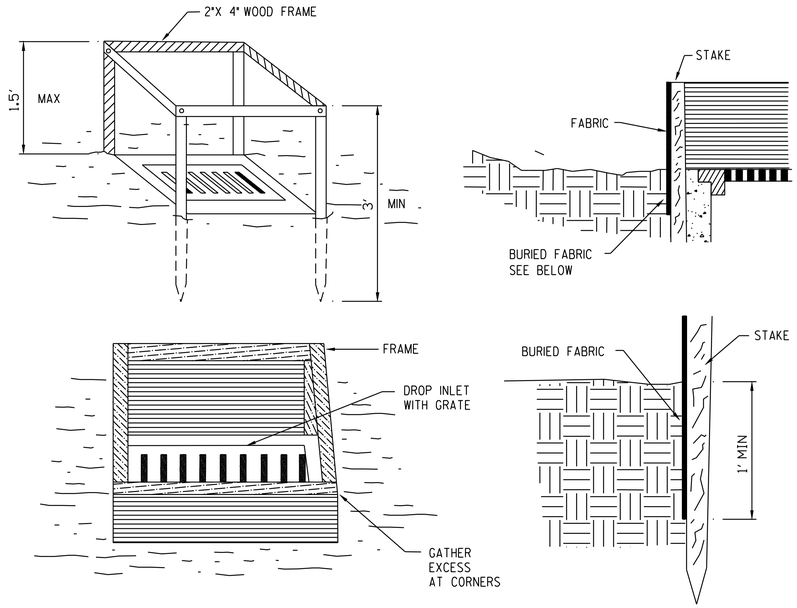


Sd2-P CURB INLET PROTECTION

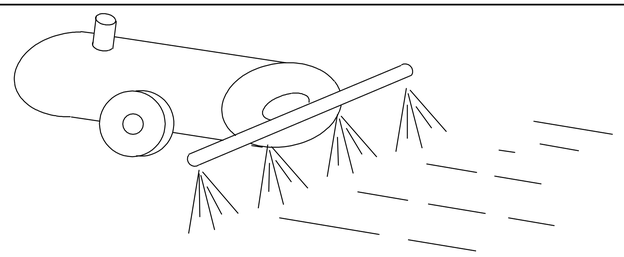


Sd2-Bg BLOCK AND GRAVEL DROP INLET PROTECTION



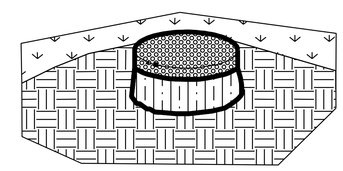
NOTES:
1. FOR STAKES, USE 2X4 INCH WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
2. SPACE STAKES EVENLY AROUND THE PERIMETER OR THE INLET A MAXIMUM OF 3' APART, AND SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18" DEEP.
3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2X4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5' ABOVE THE DROP INLET CREST.
4. PLACE THE BOTTOM 12" OF THE FABRIC IN A TRENCH AND BACKFILL THE TRENCH WITH AT LEAST 4" OF CRUSHED STONE OR 12" OF COMPACTED SOIL.
5. FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWN SLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM PASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

Sd2-B BAFFLE BOX



Du DUST CONTROL

SCALE: NTS



Sd2 ALTERNATE Sd2 STRUCTURE

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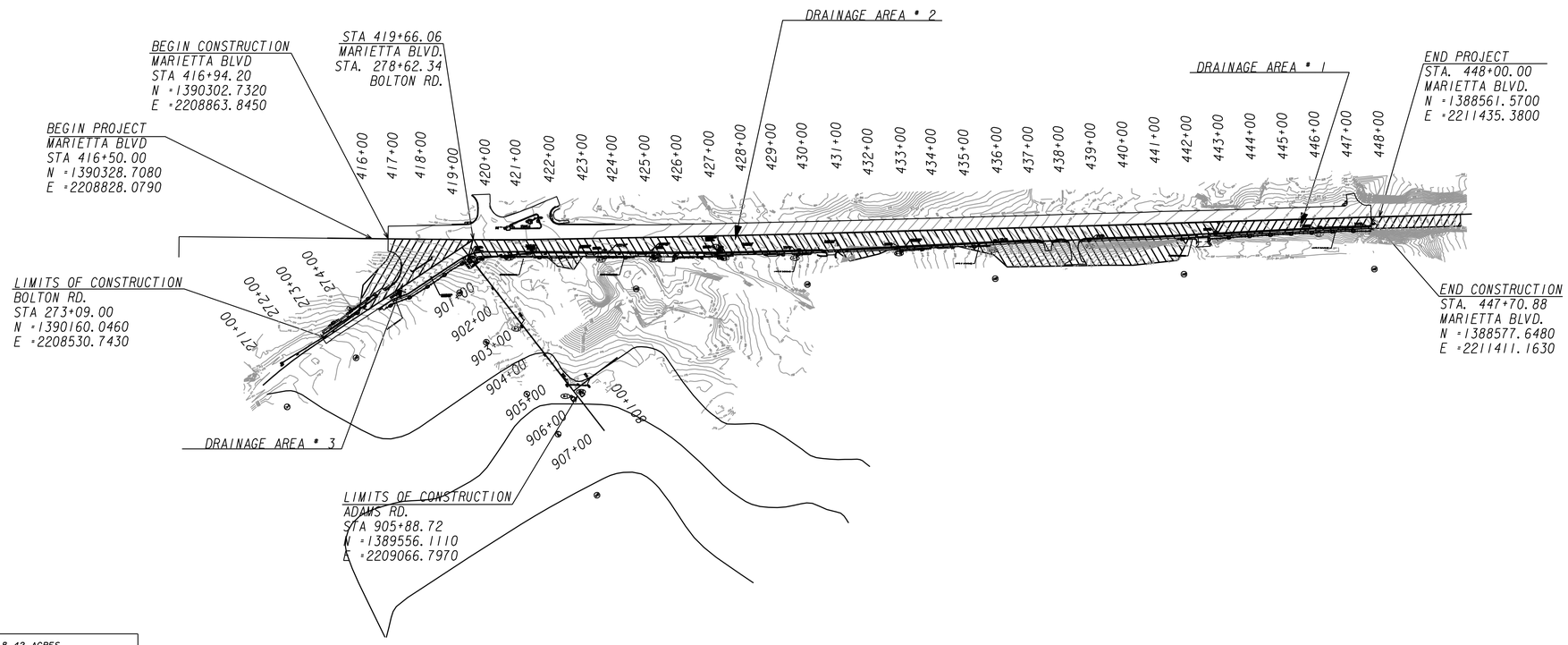

TOTAL PROJECT SIZE = 8.42 ACRES
TOTAL DISTURBED AREA = 1.83 ACRES

DRAINAGE AREA No.	STA.	EXISTING	PROPOSED	DRAINAGE AREA (ACRES)	Q (50)	Q (100)	V (50)	V (100)	EXIST C RUNOFF	POST-DEVELOPED C RUNOFF	RECEIVING WATER
1	274+50 LT (BOLTON RD)	--	18"	0.73	5.02	5.32	3.83	3.97	0.84	0.85	PROCTOR CREEK
2	905+80 LT (ADAMS DR)	--	24"	4.11	24.99	25.18	9.57	10.02	0.75	0.79	PROCTOR CREEK
3	442+81 RT (MARIETTA BLVD)	--	18"	0.69	8.02	8.40	7.09	7.20	0.83	0.93	PROCTOR CREEK

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DRAINAGE AREA MAP
FULTON COUNTY
BOTON RD AT MARIETTA BLVD
DRAWING No. 53-01

3/1/2007 GPLN

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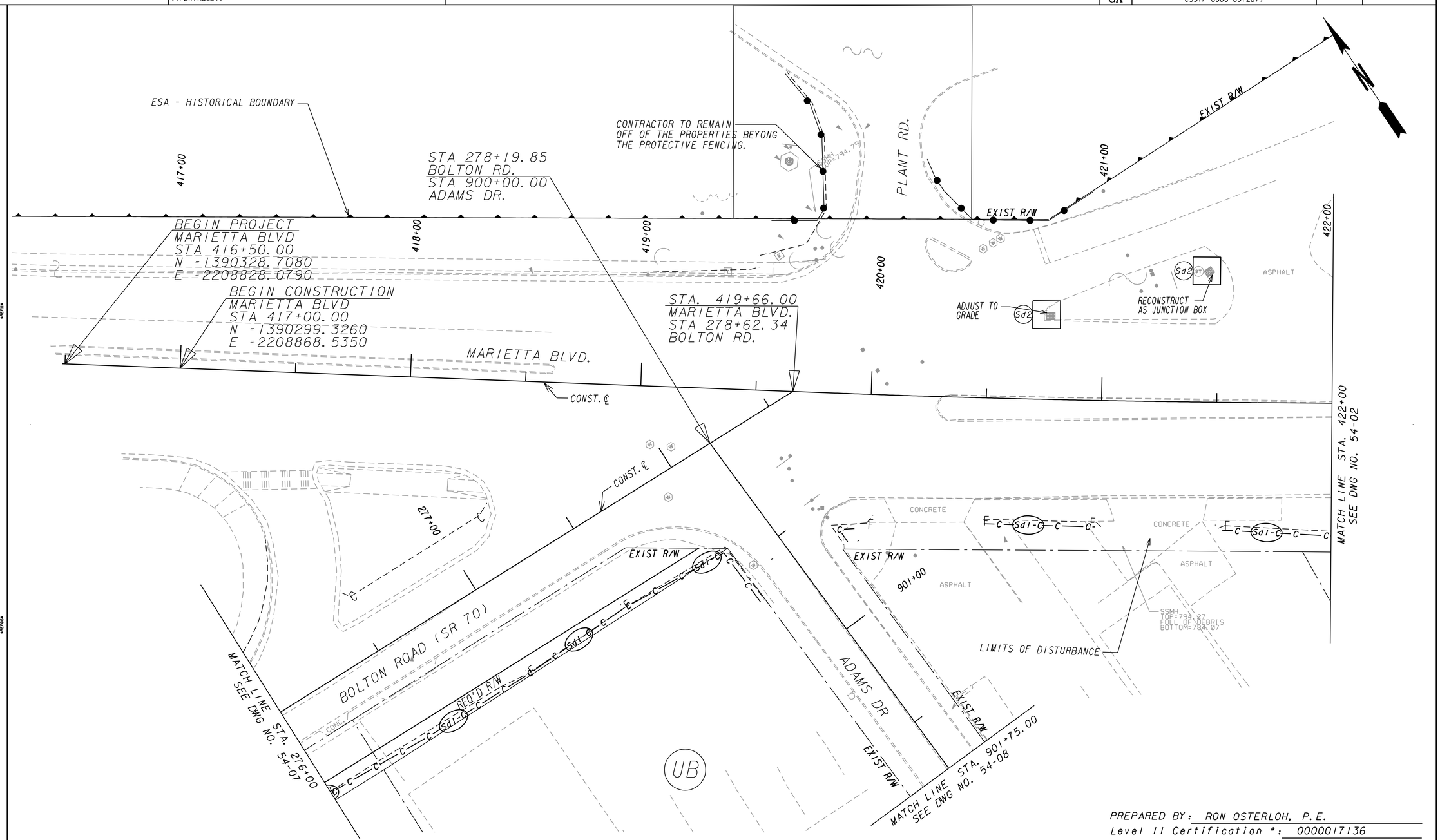

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-01

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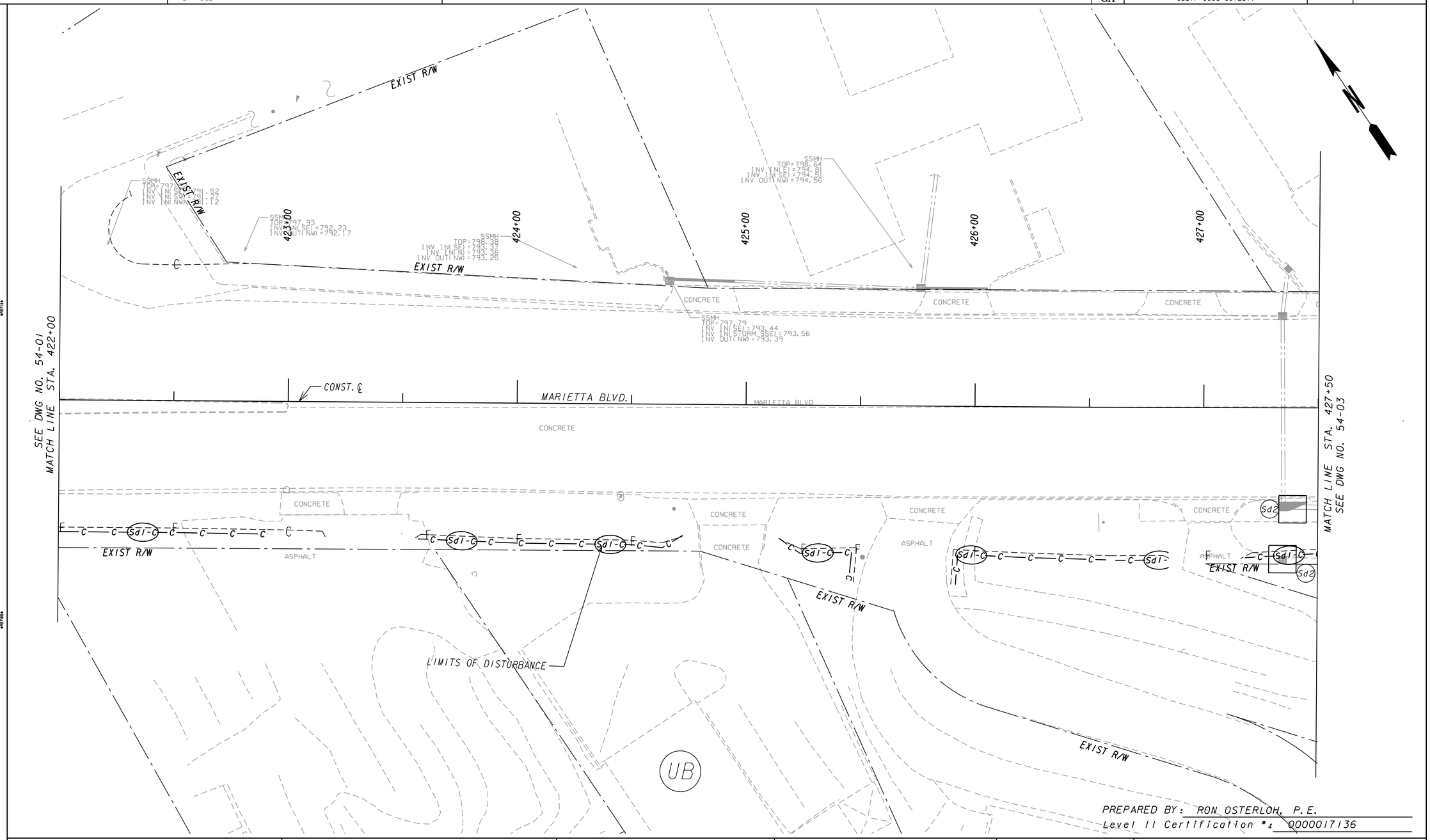

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-02

3/1/2007 GPLN

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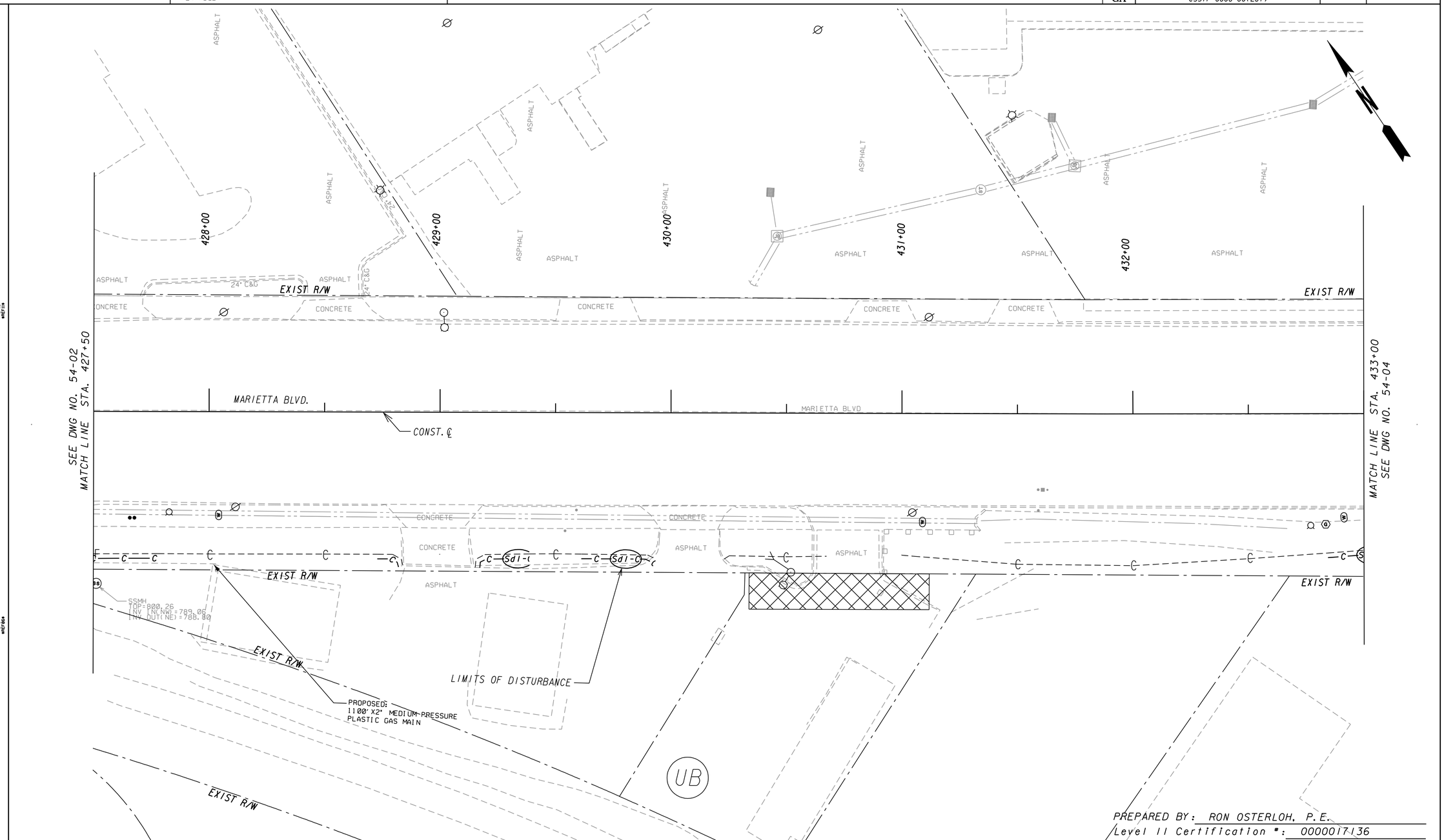

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

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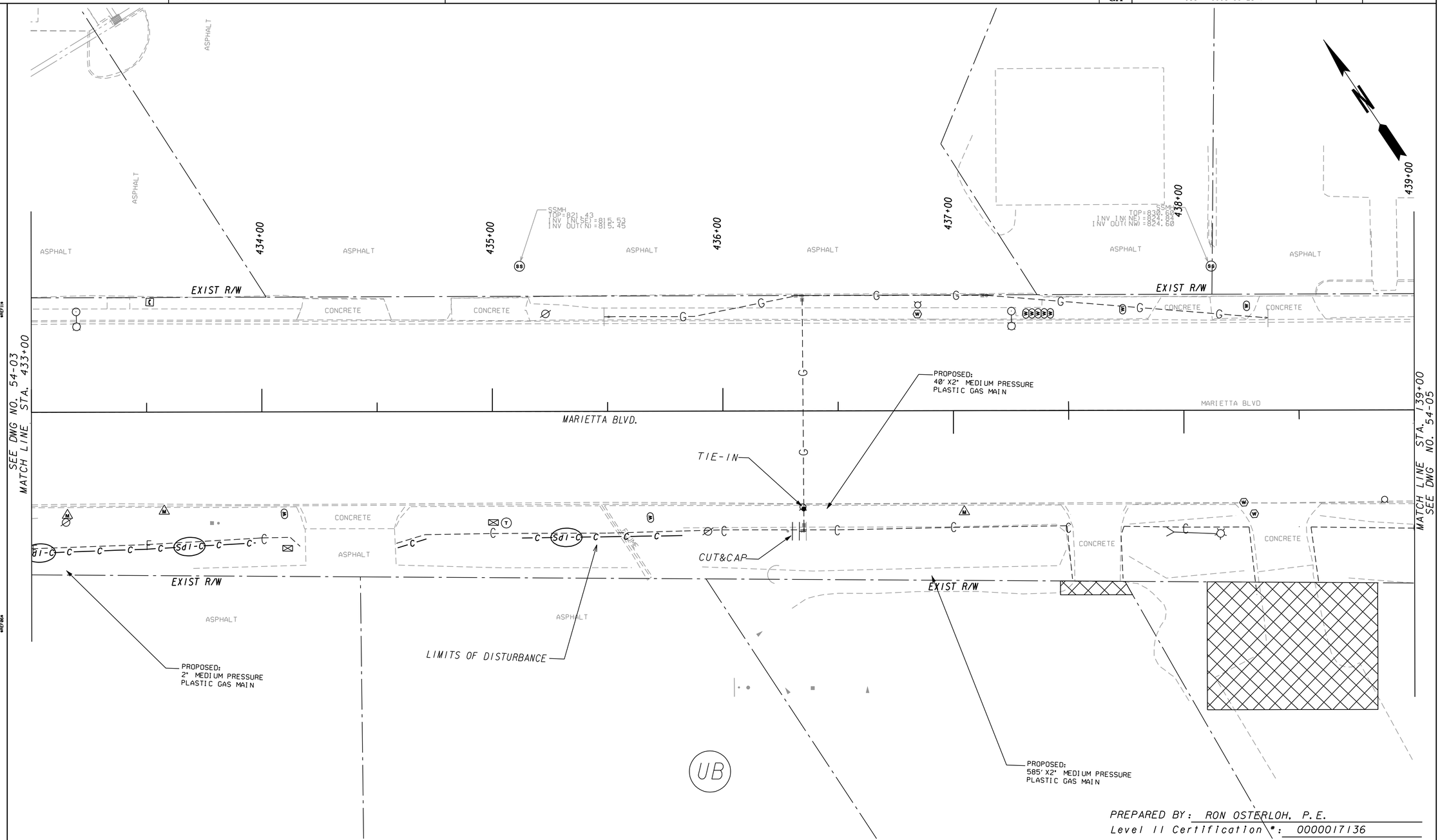

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BOLTON RD AT MARIETTA BLVD

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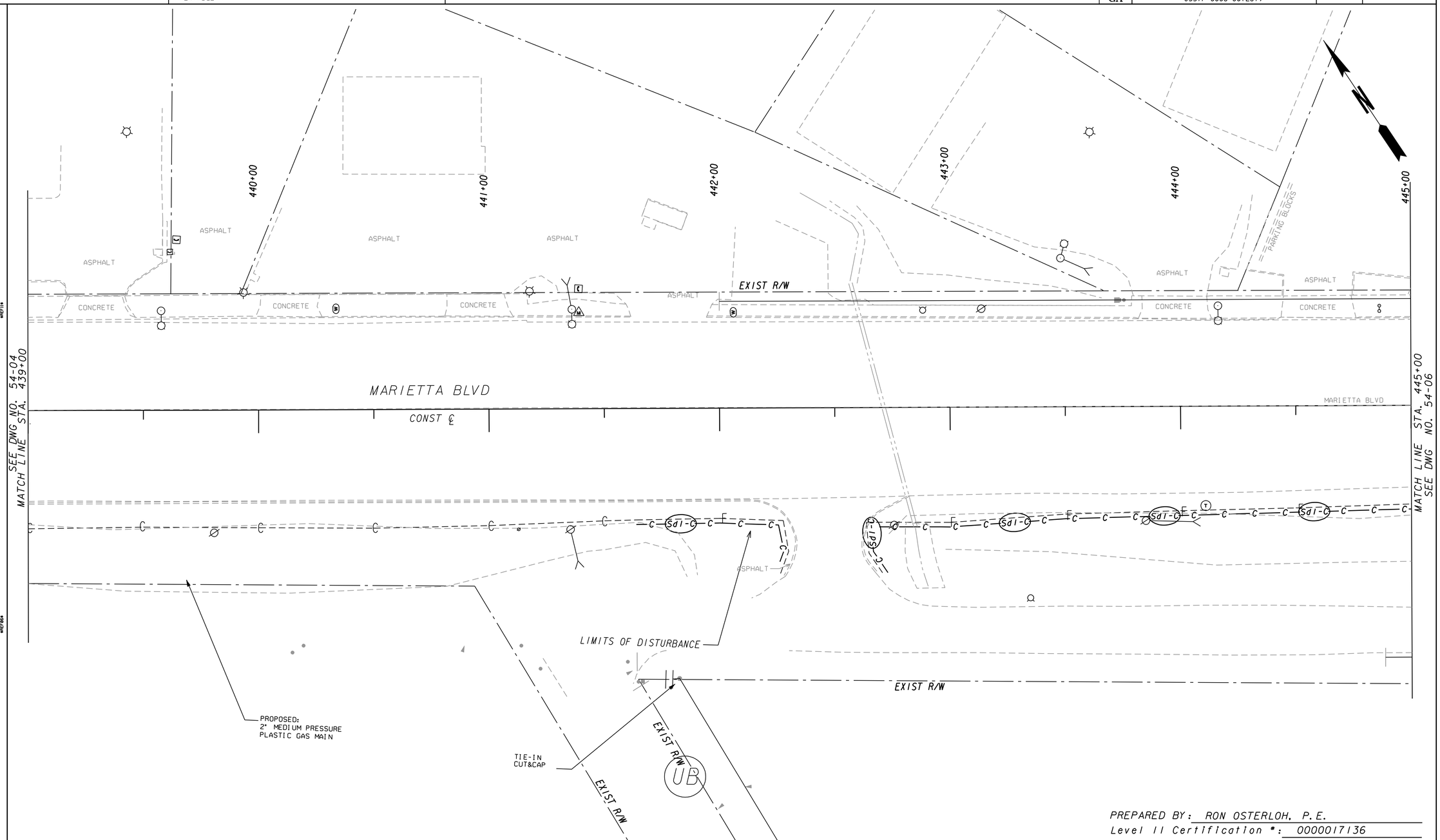

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-05

3/1/2007 GPLN

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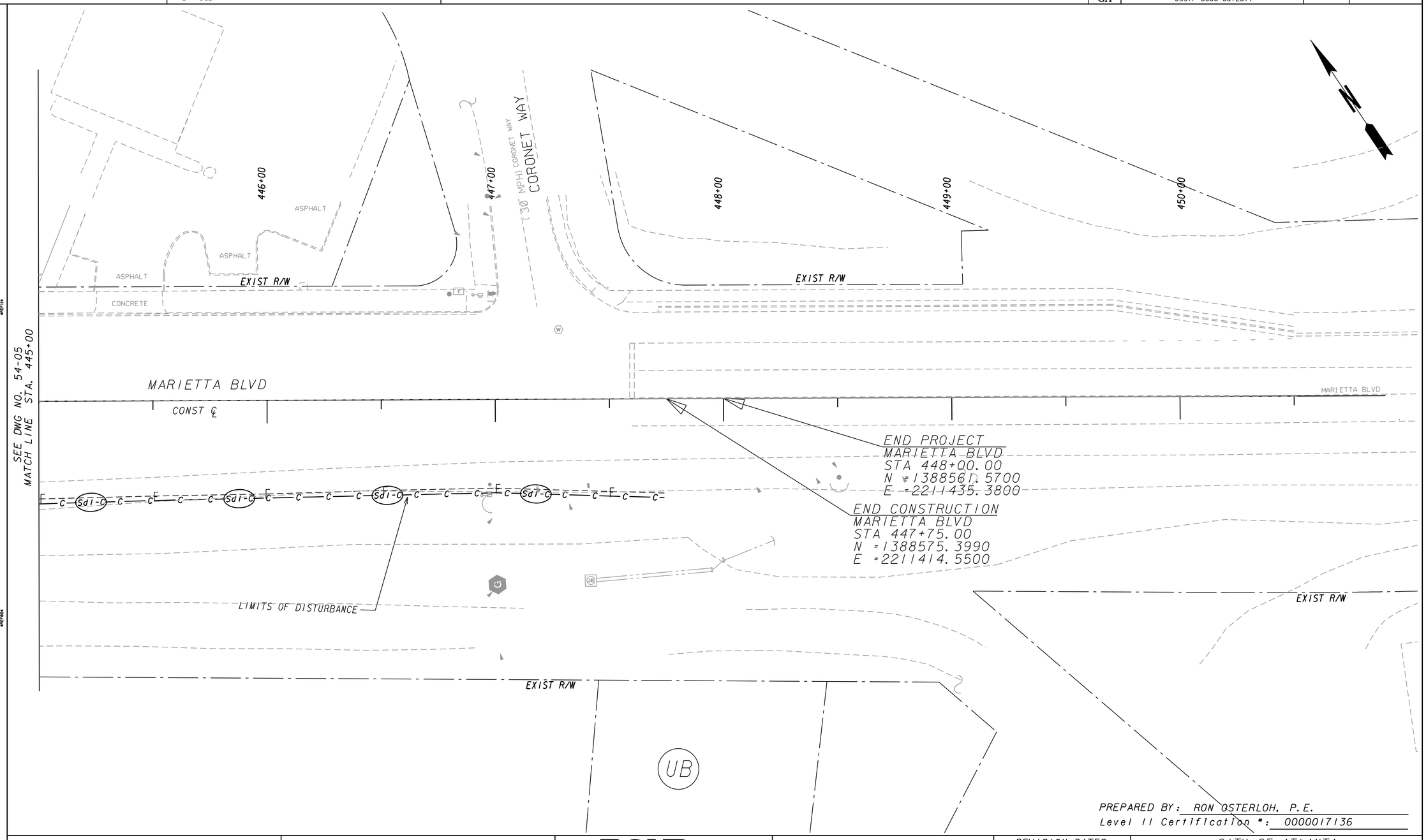

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-06

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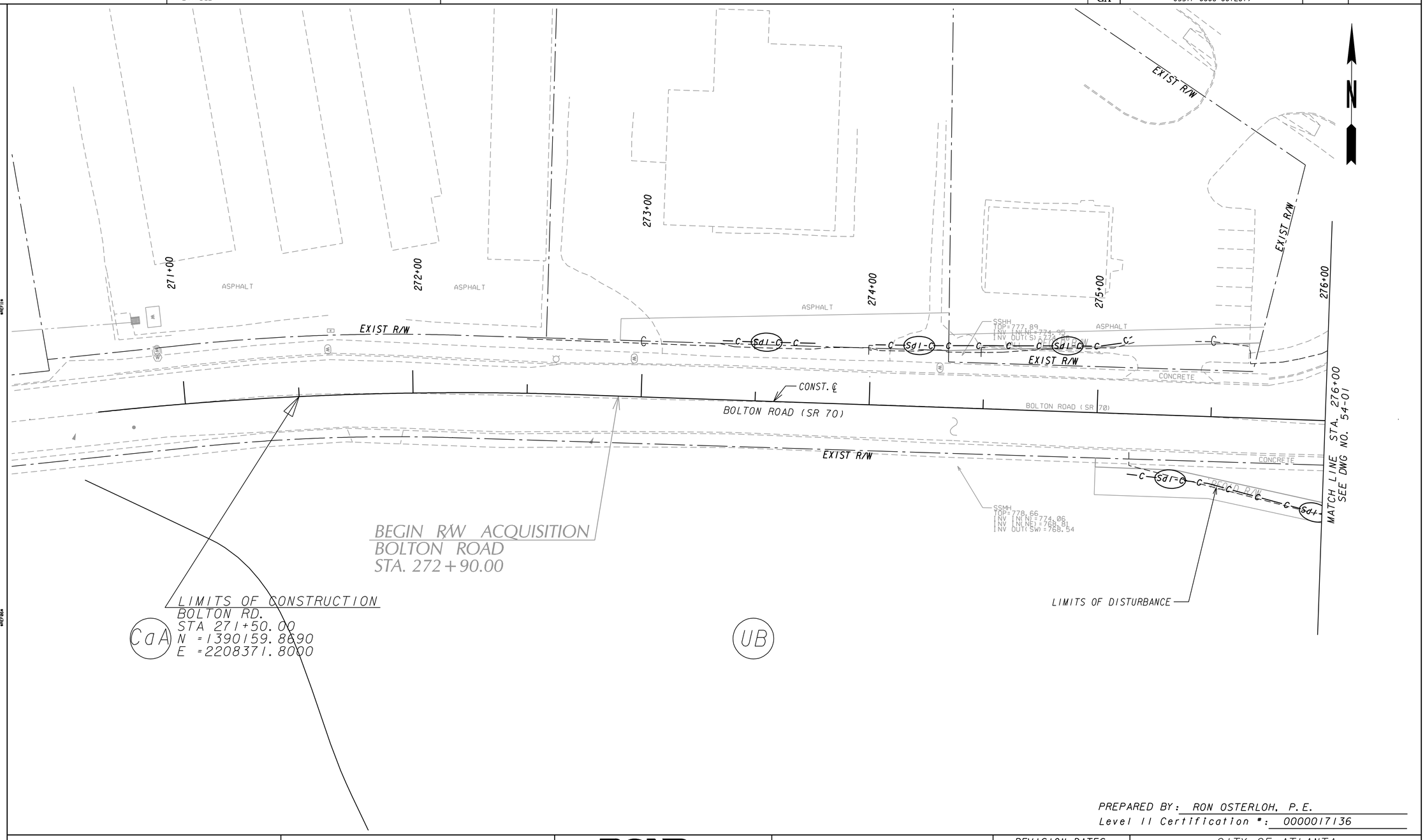

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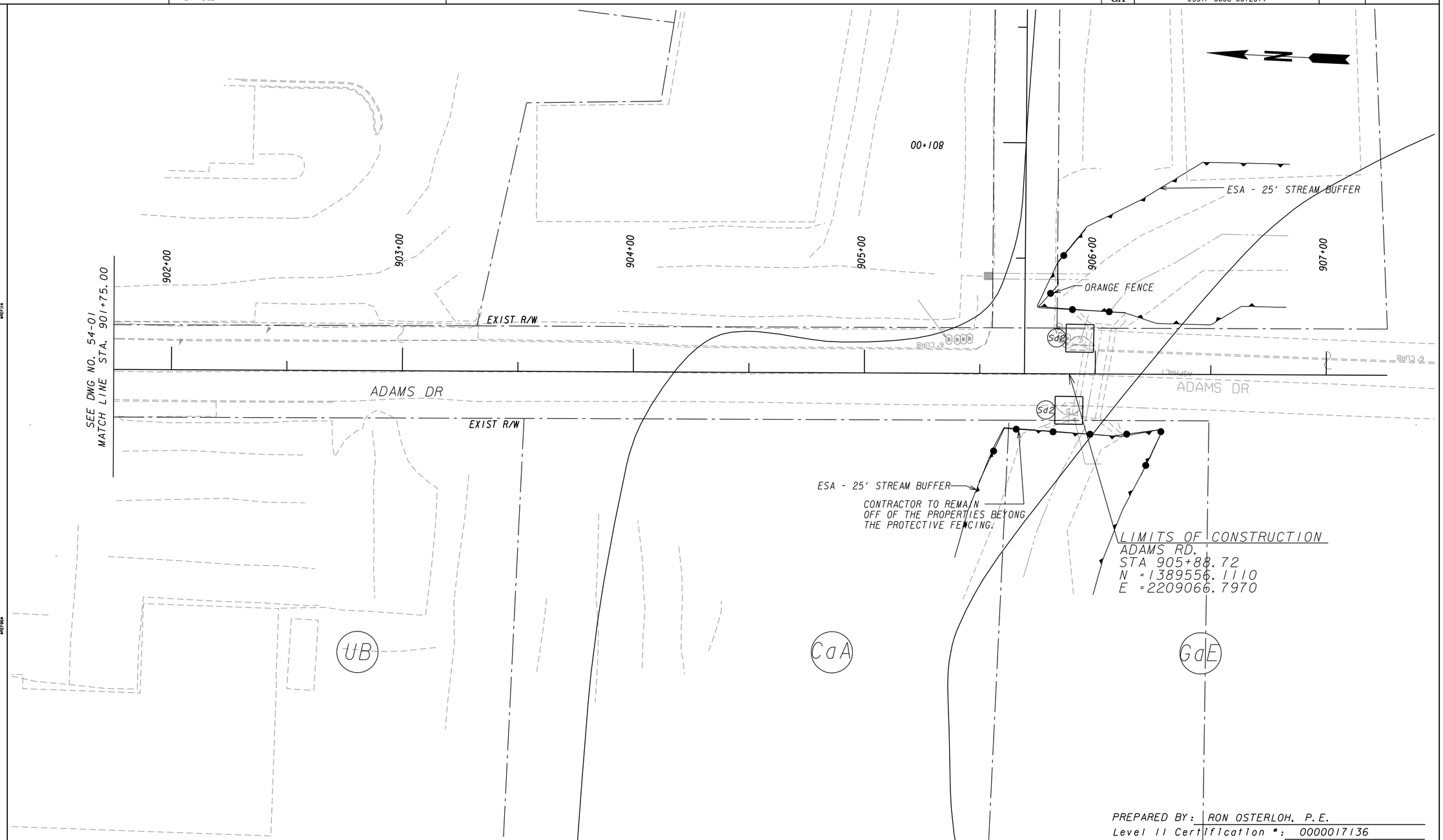

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DRAWING No. 54-08

3/1/2007 GPLN

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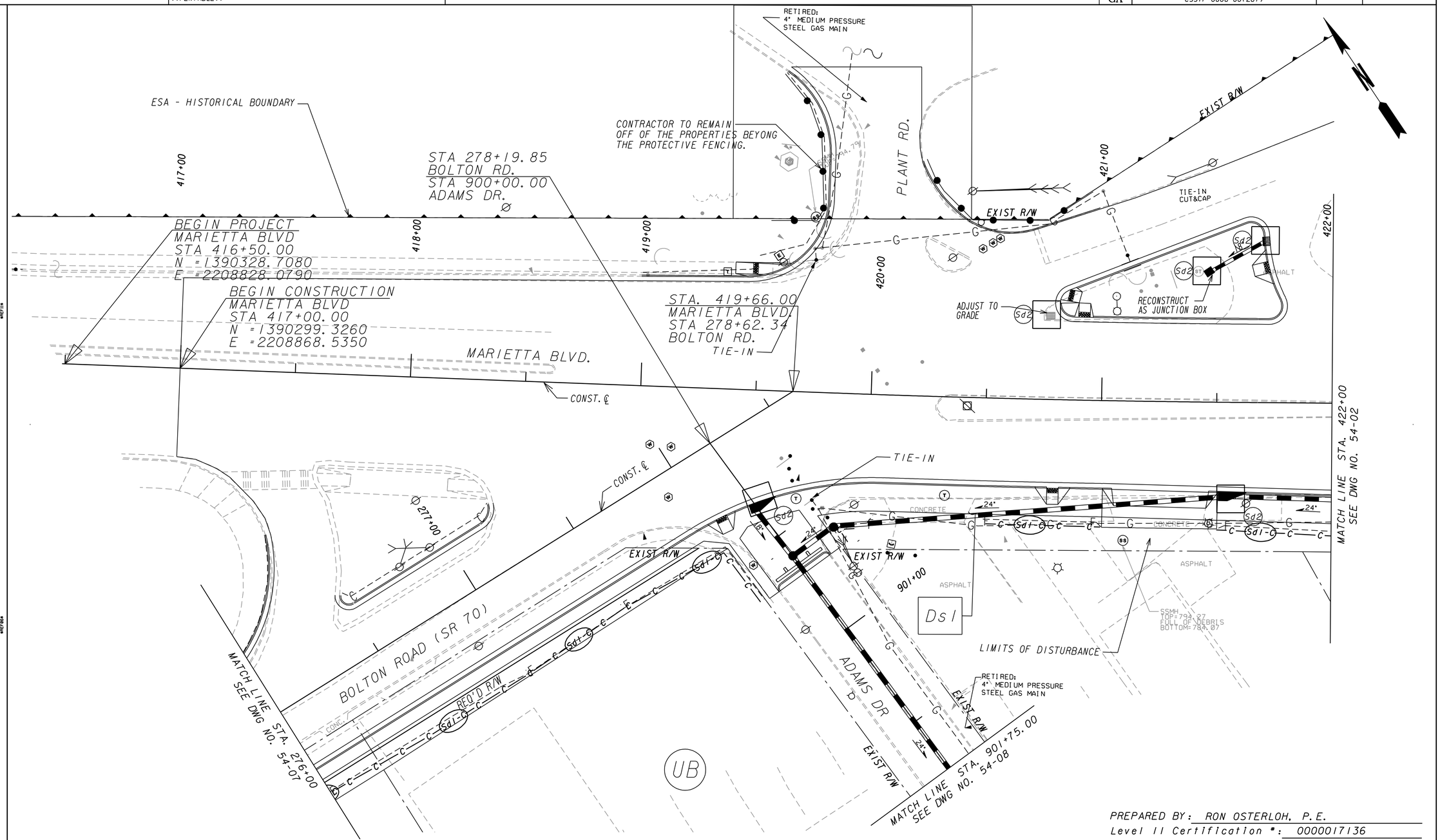

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CITY OF ATLANTA

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PHASE I BMP LOCATION DETAILS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-09

3/1/2007 GPLK

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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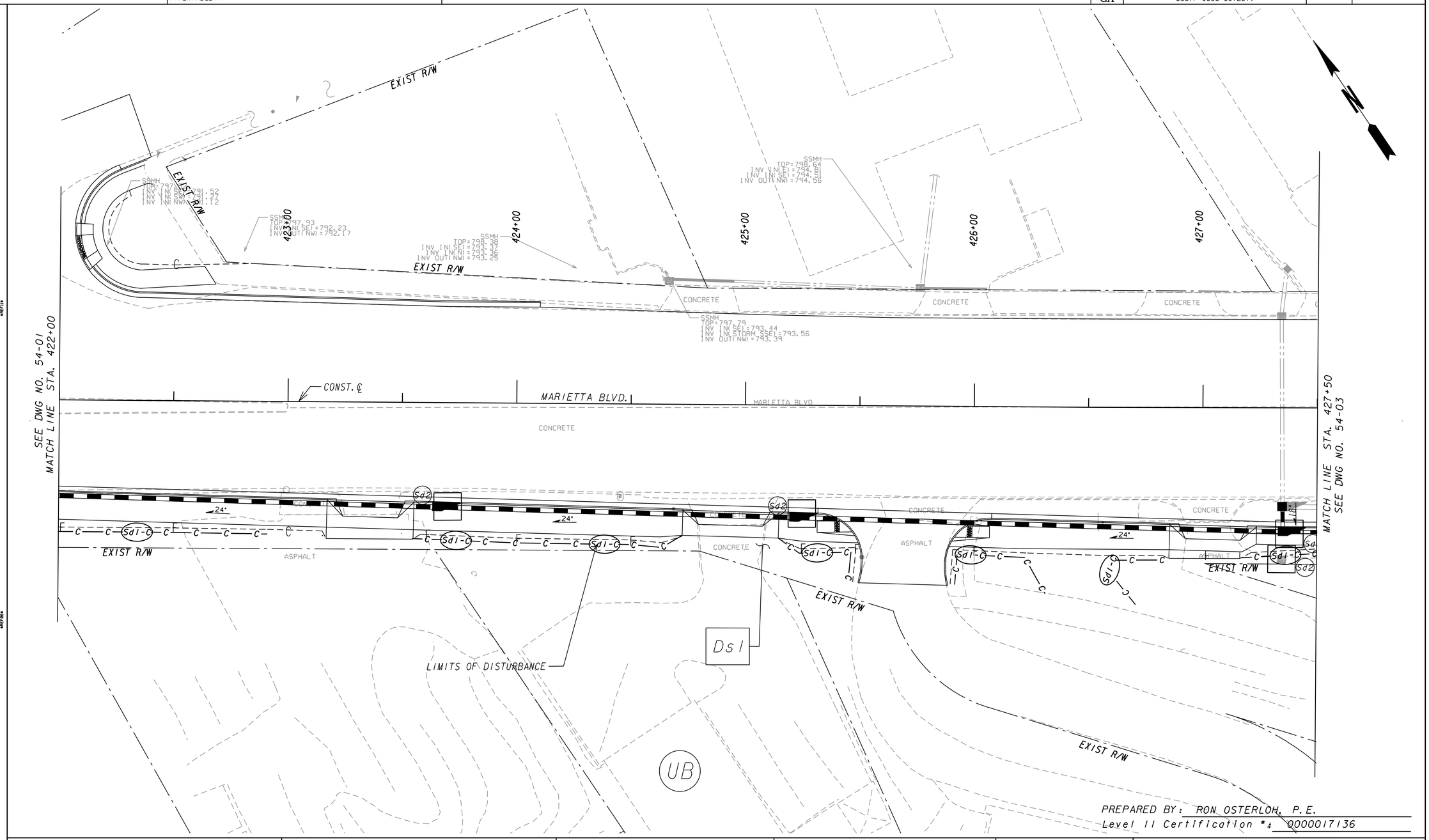

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-10

3/1/2007 GPLN

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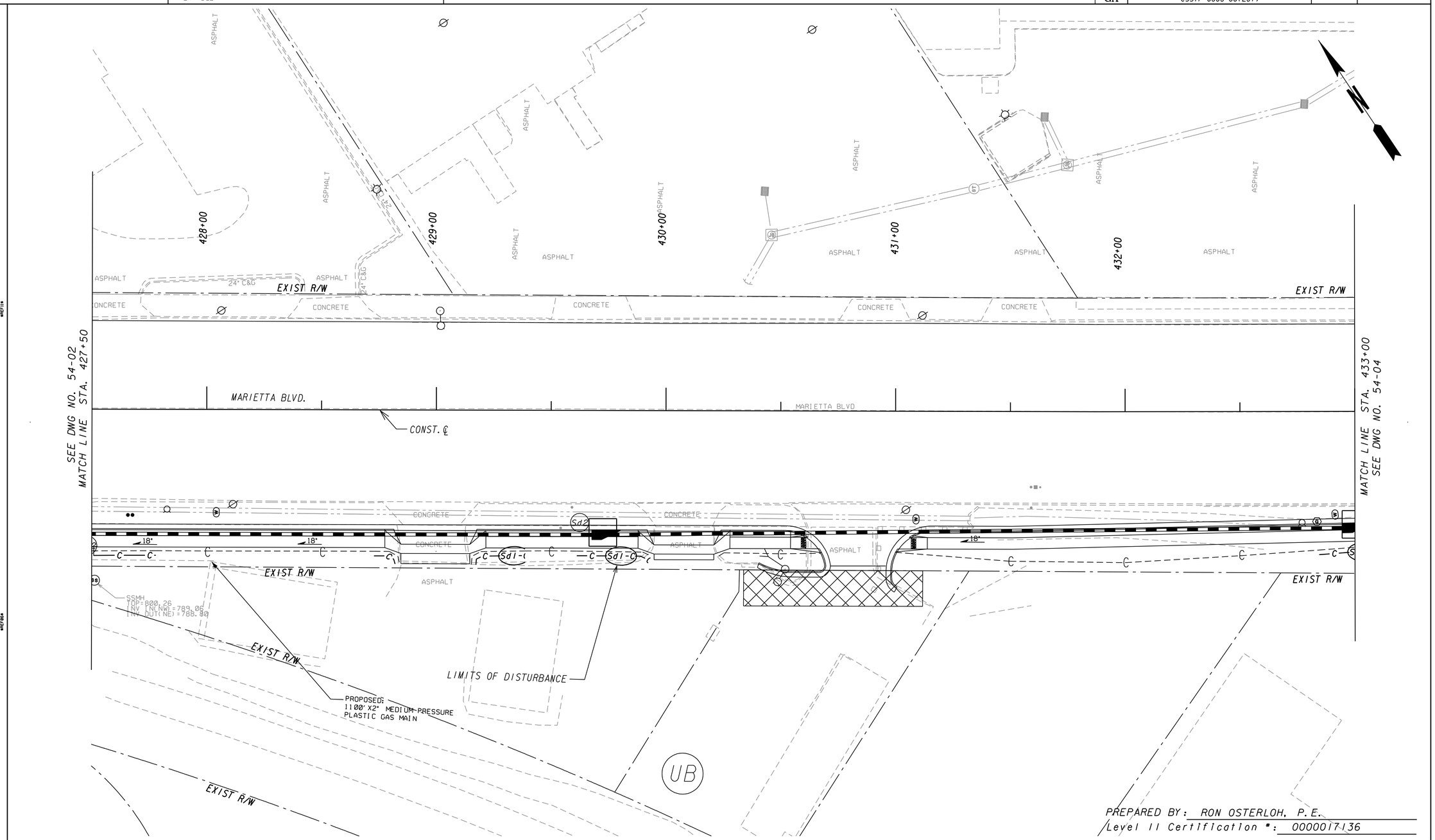

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-11

3/1/2007 GPLN

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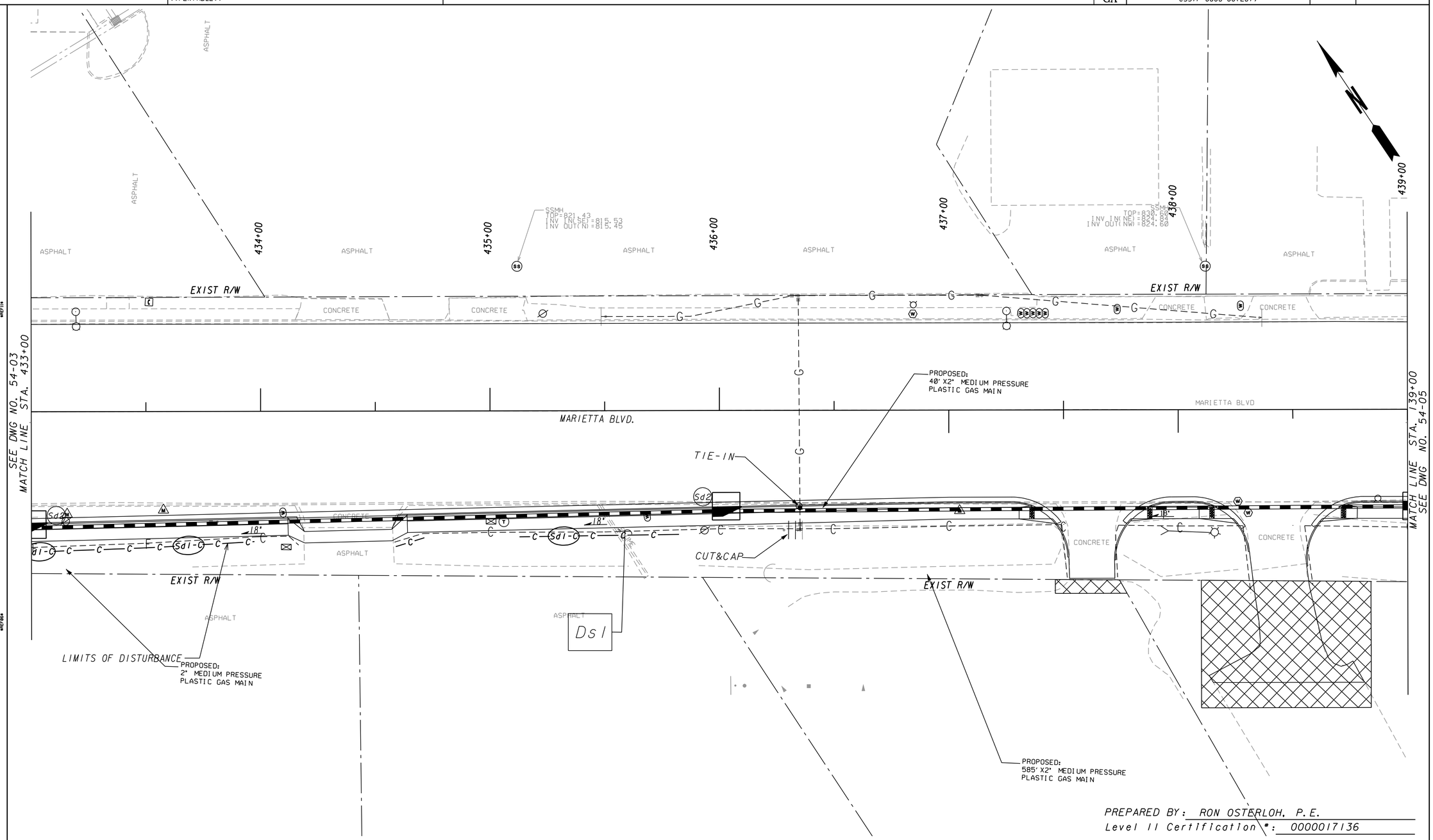

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DRAWING No. 54-12

3/1/2007 GPLN

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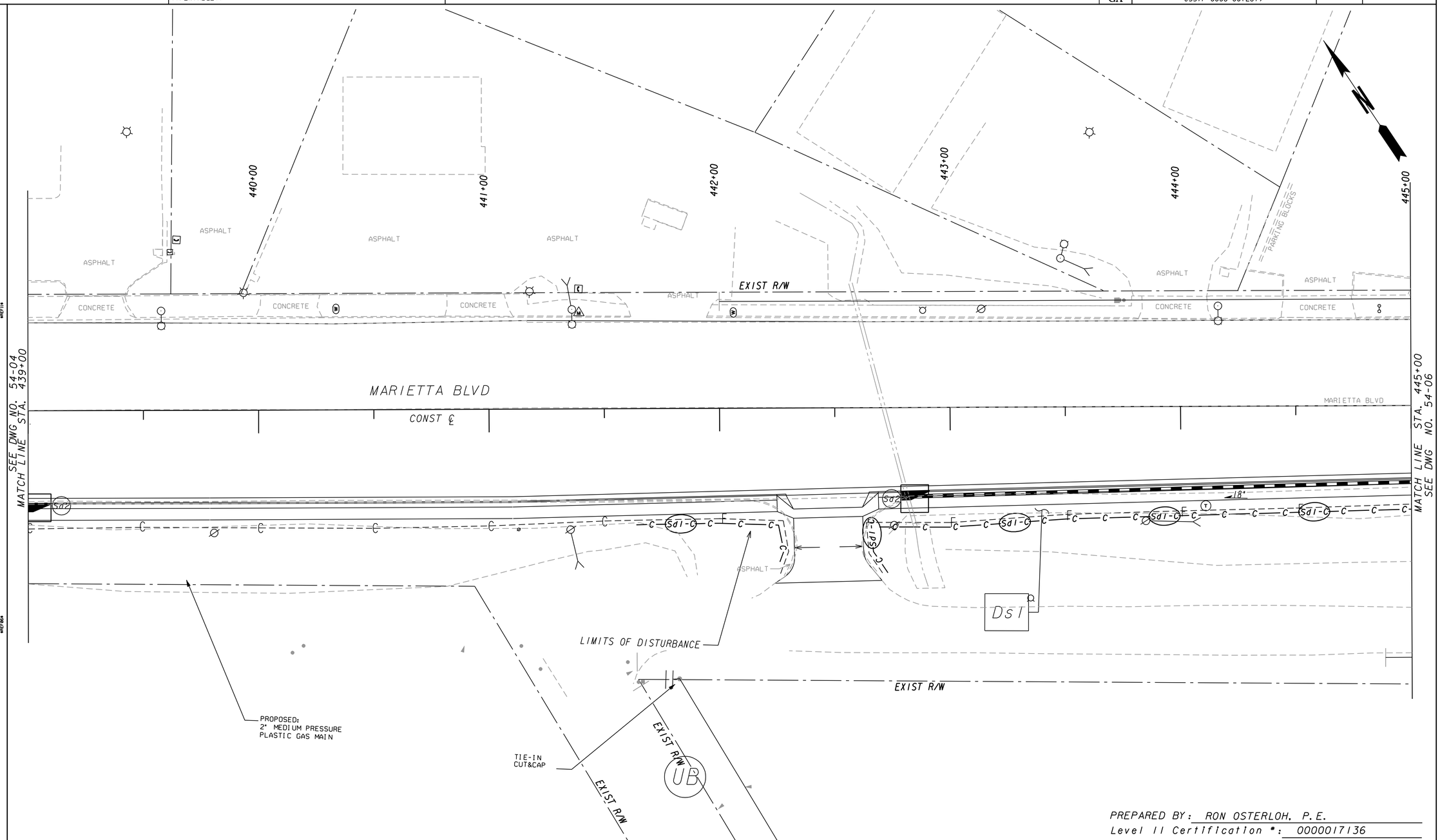

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FULTON COUNTY
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DRAWING No. 54-13

3/1/2007 GPLN

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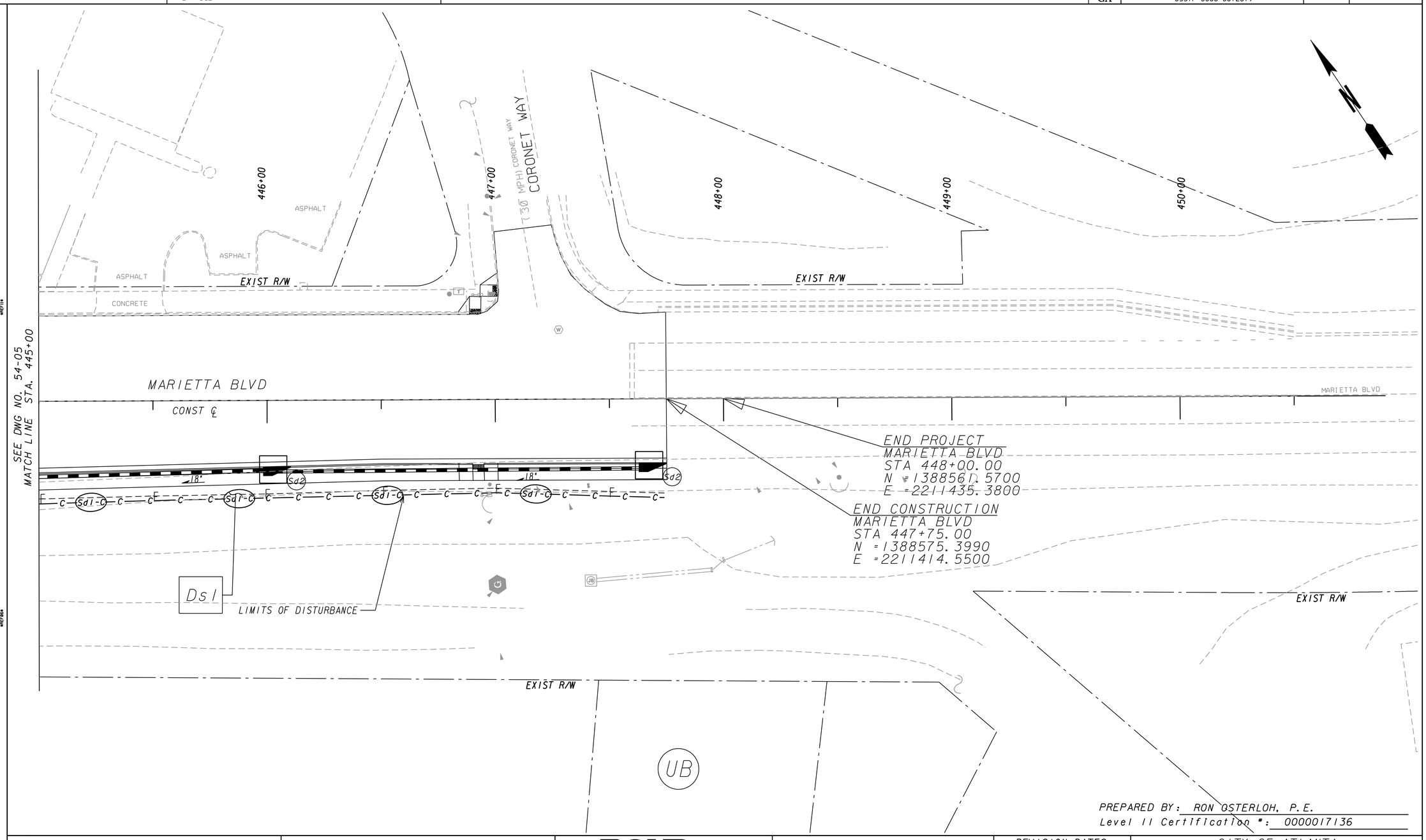

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-14

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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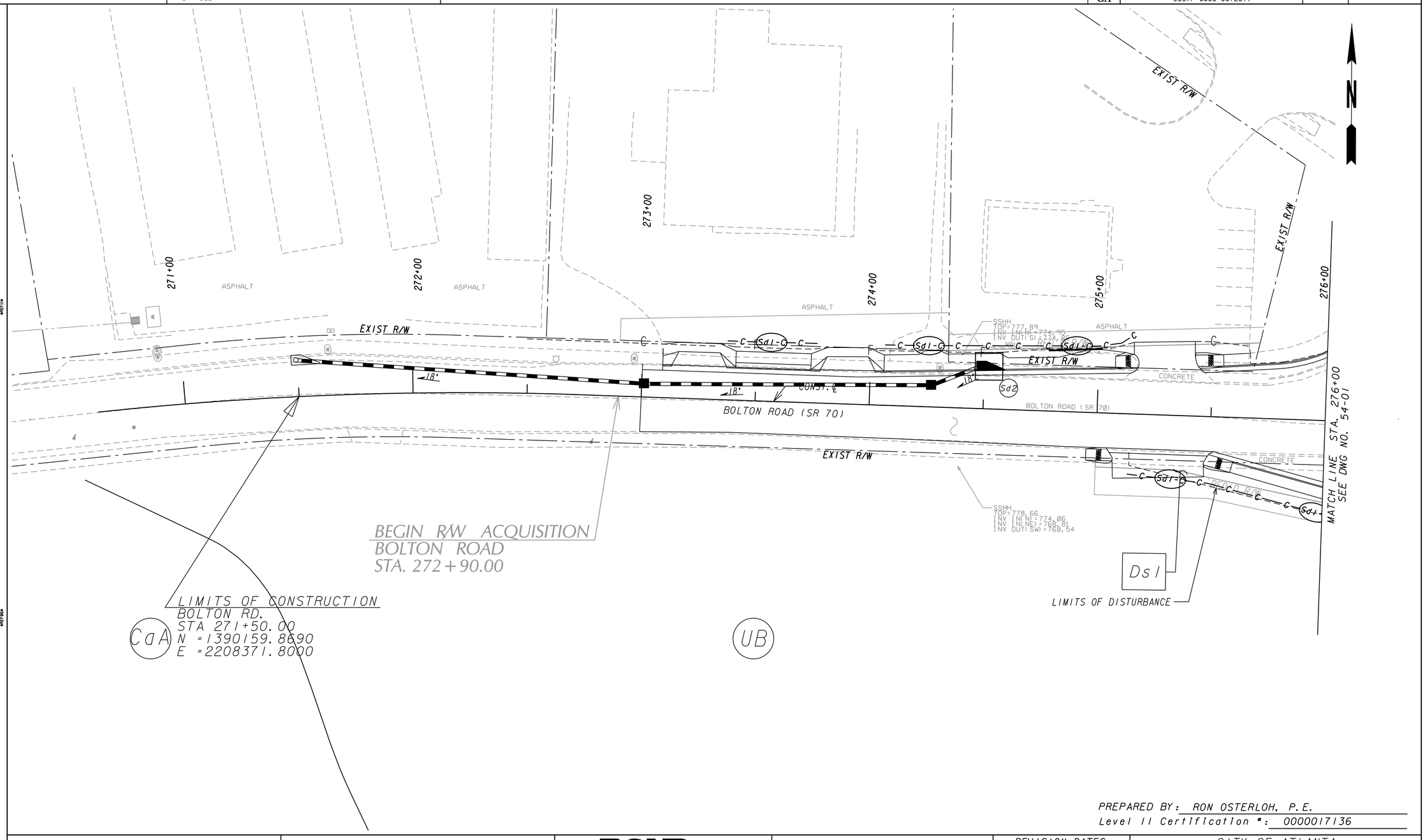

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DRAWING No. 54-15

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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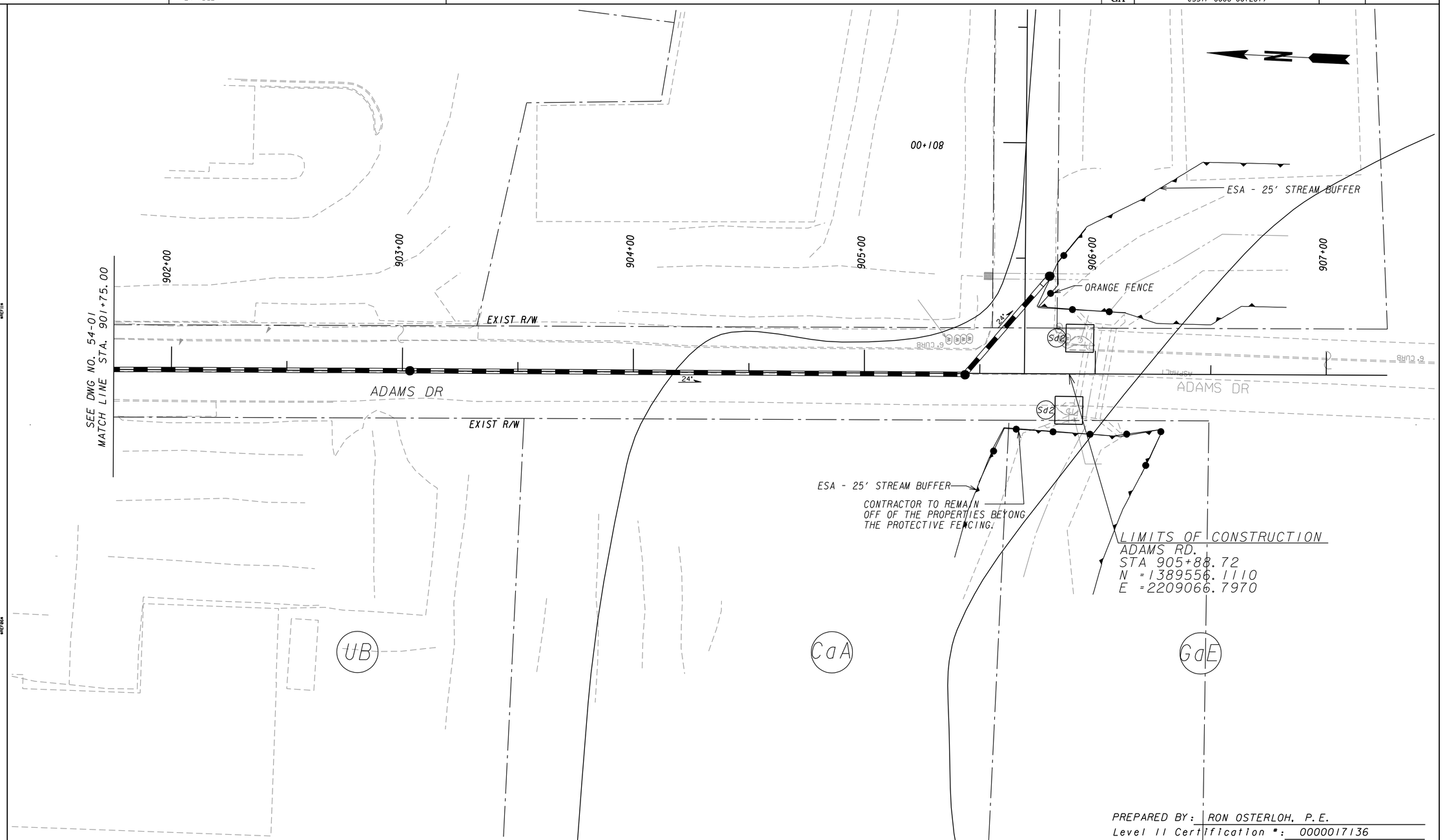

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-16

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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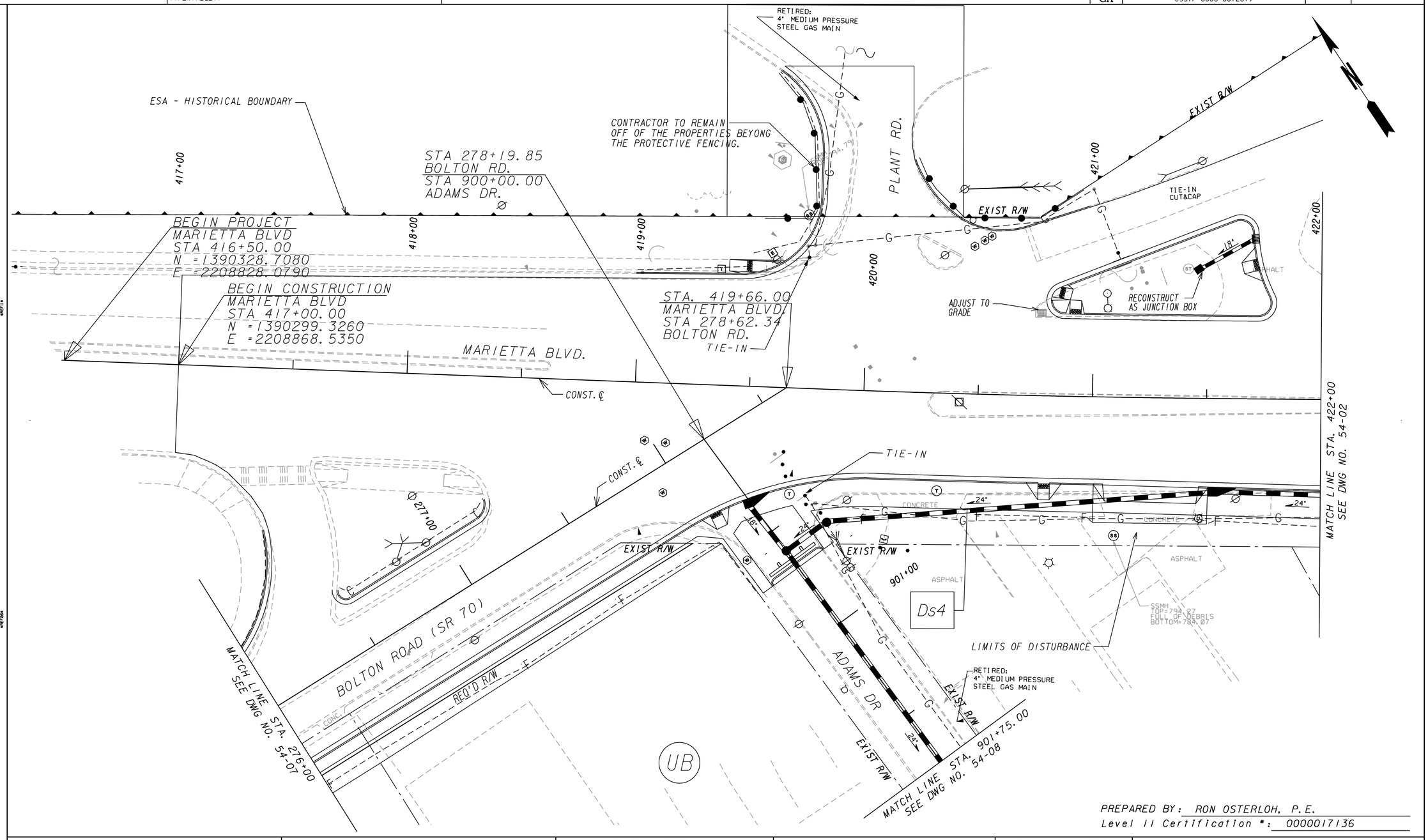

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-17

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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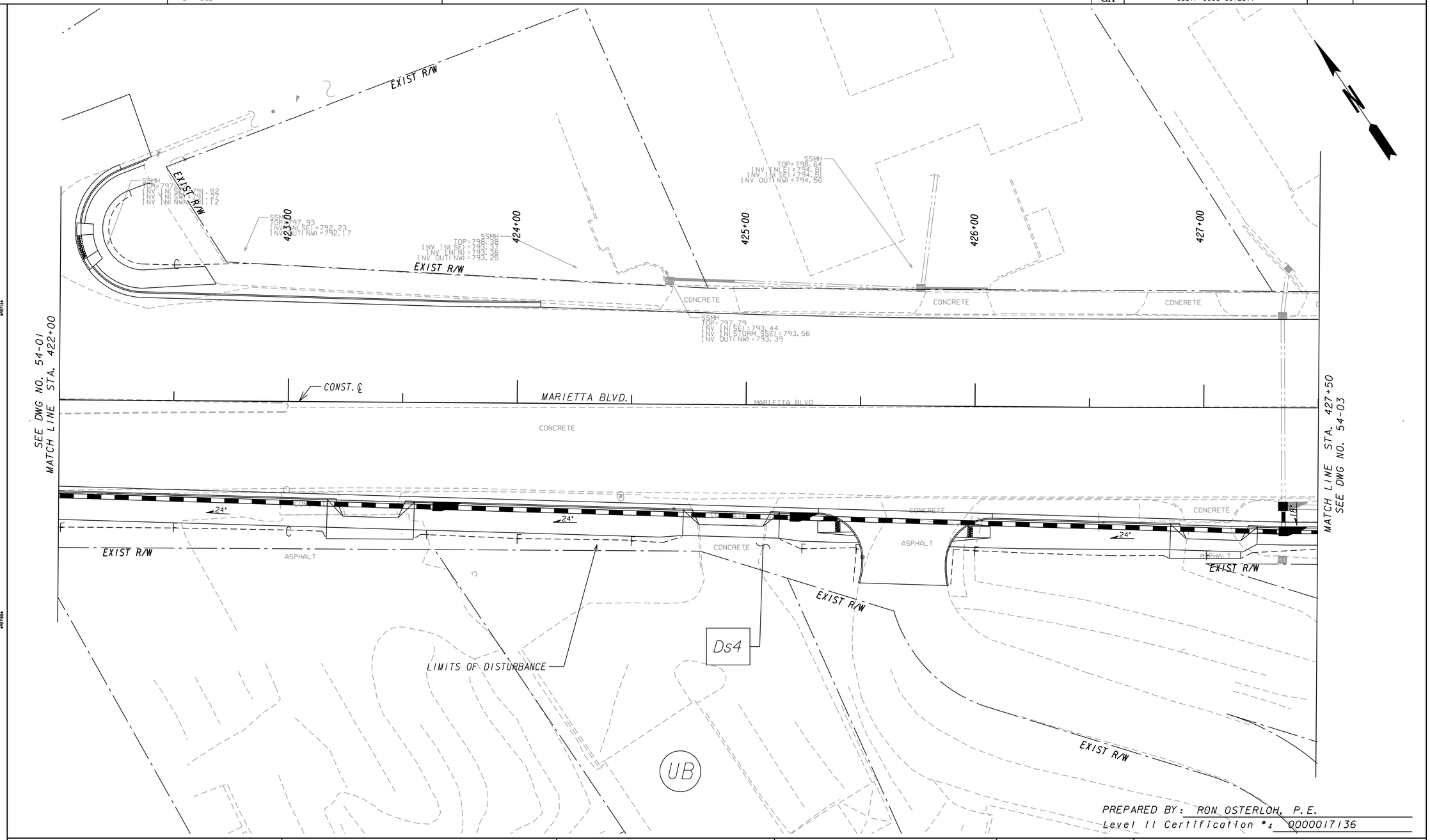

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-18

3/1/2007 GPLN

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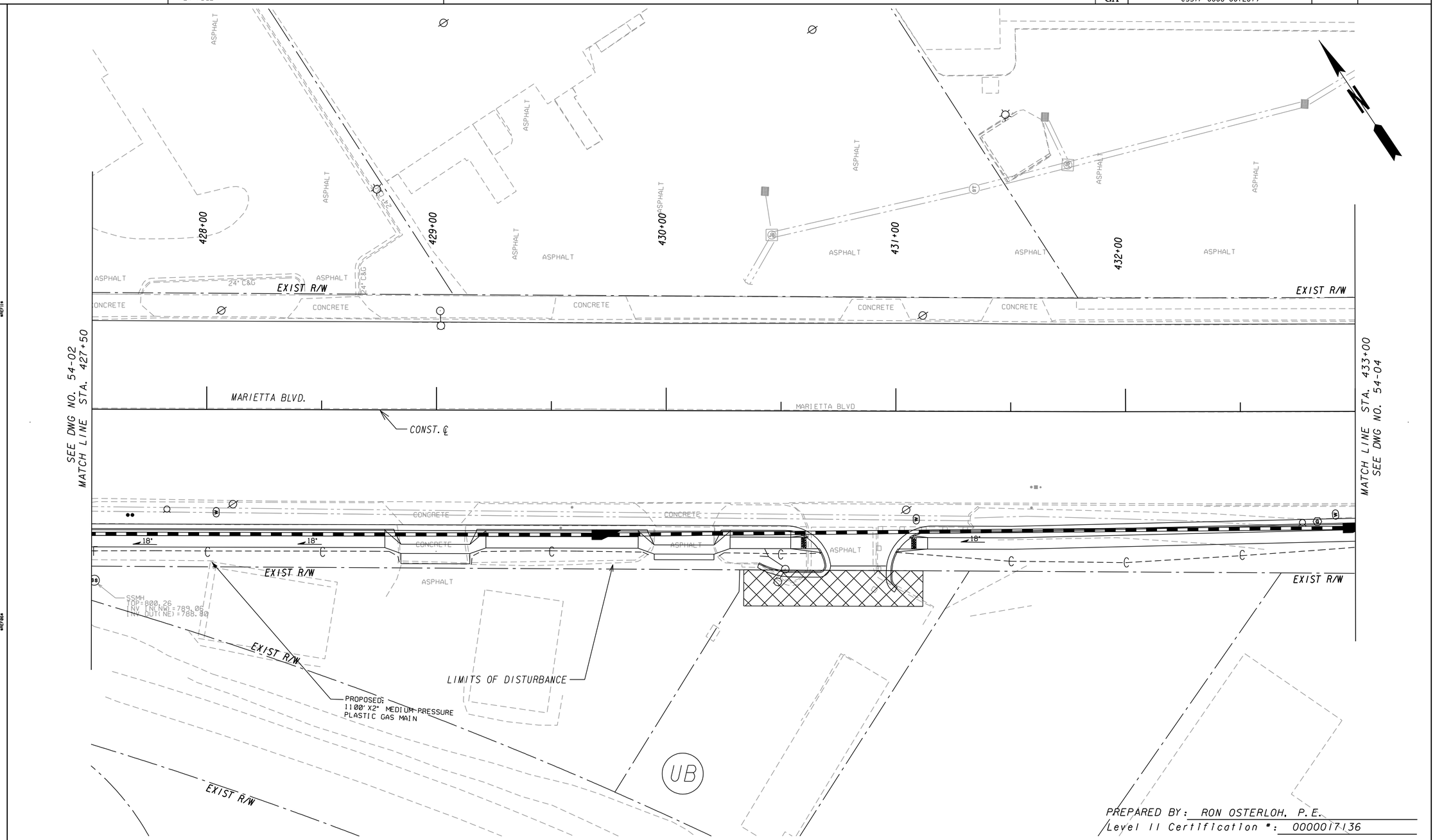

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FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-19

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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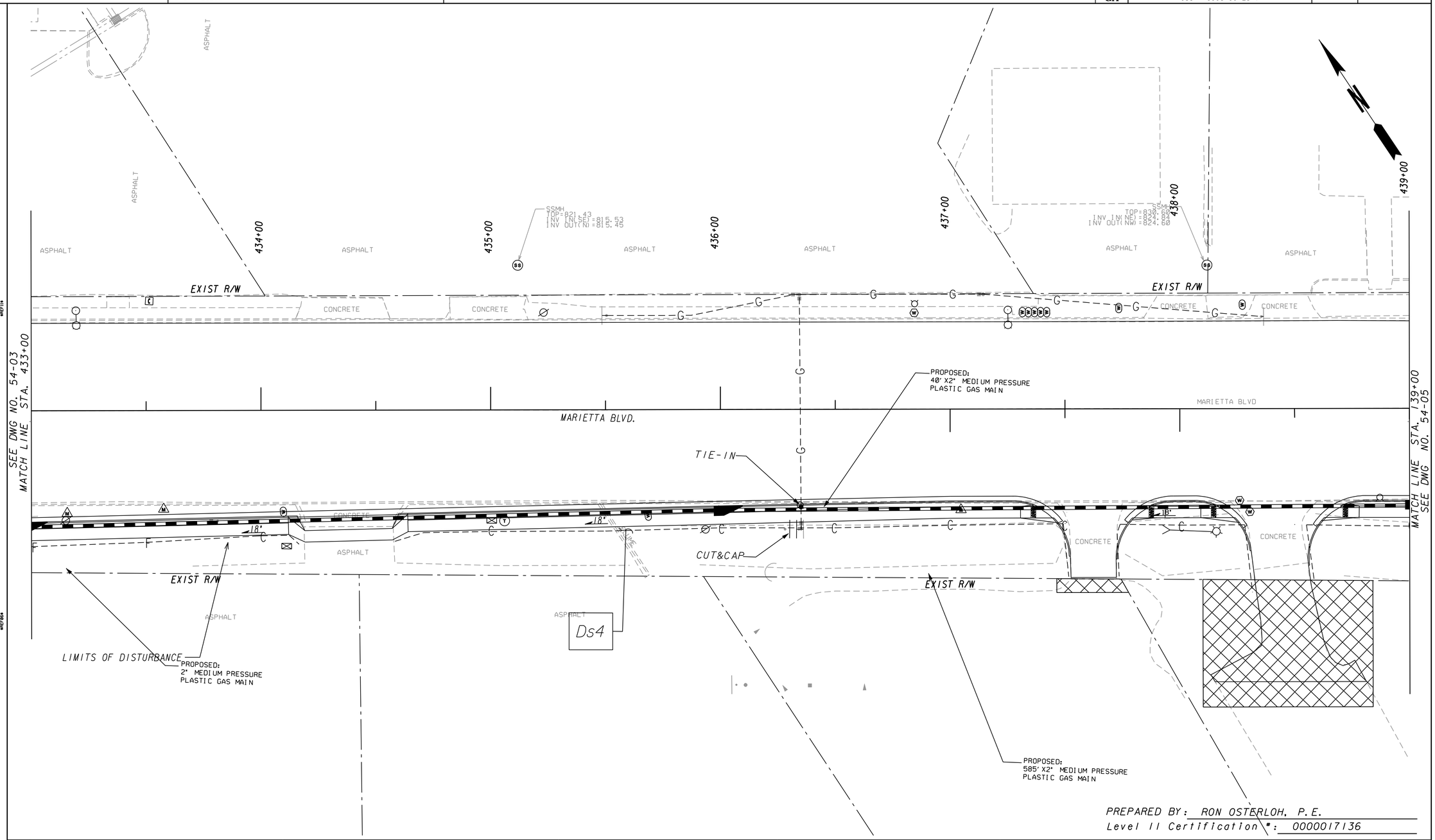

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PHASE 2 BMP LOCATION DETAILS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-20

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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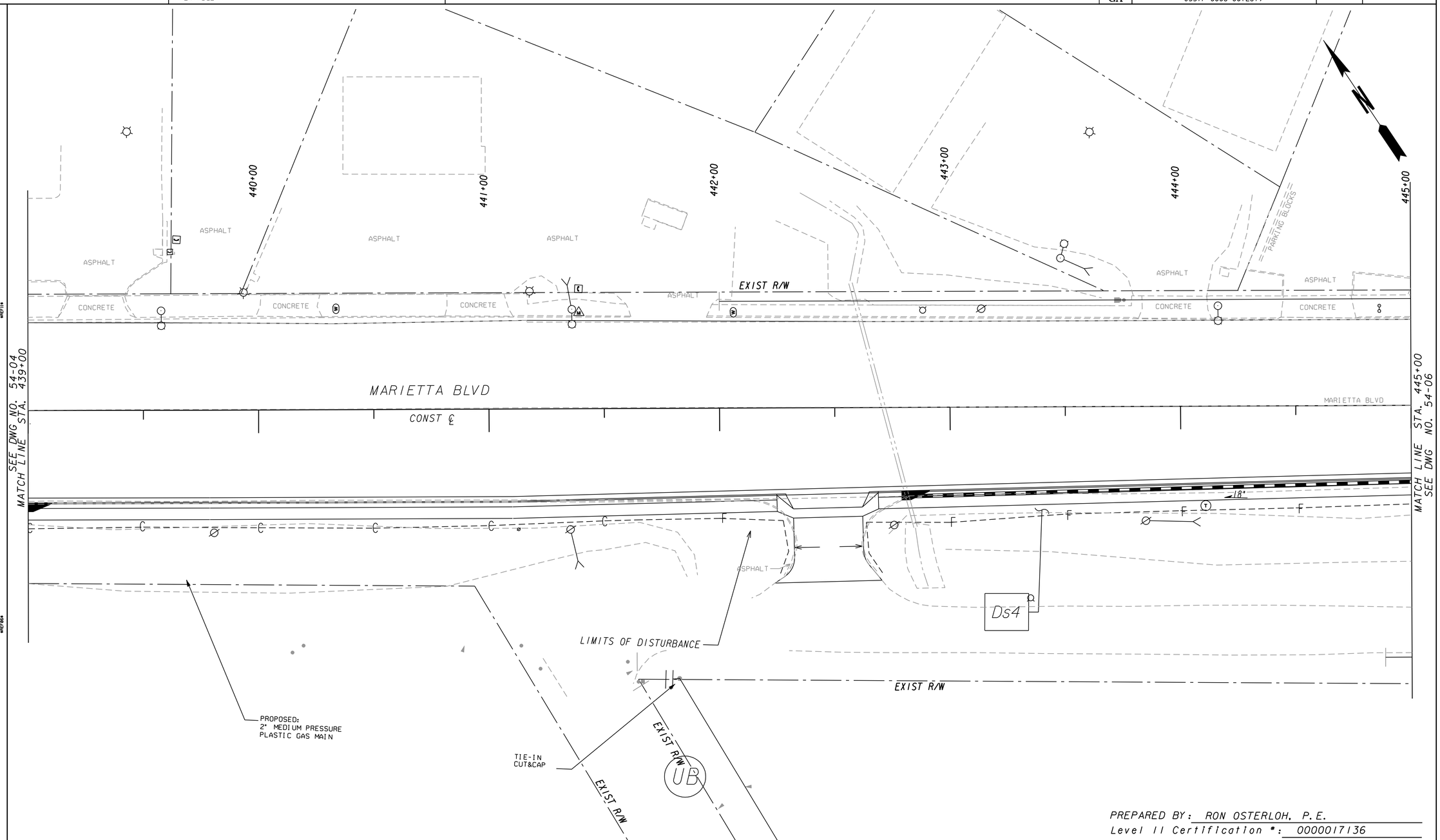

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REVISION DATES		

CITY OF ATLANTA

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PHASE 2 BMP LOCATION DETAILS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-21

3/1/2007 GPLN

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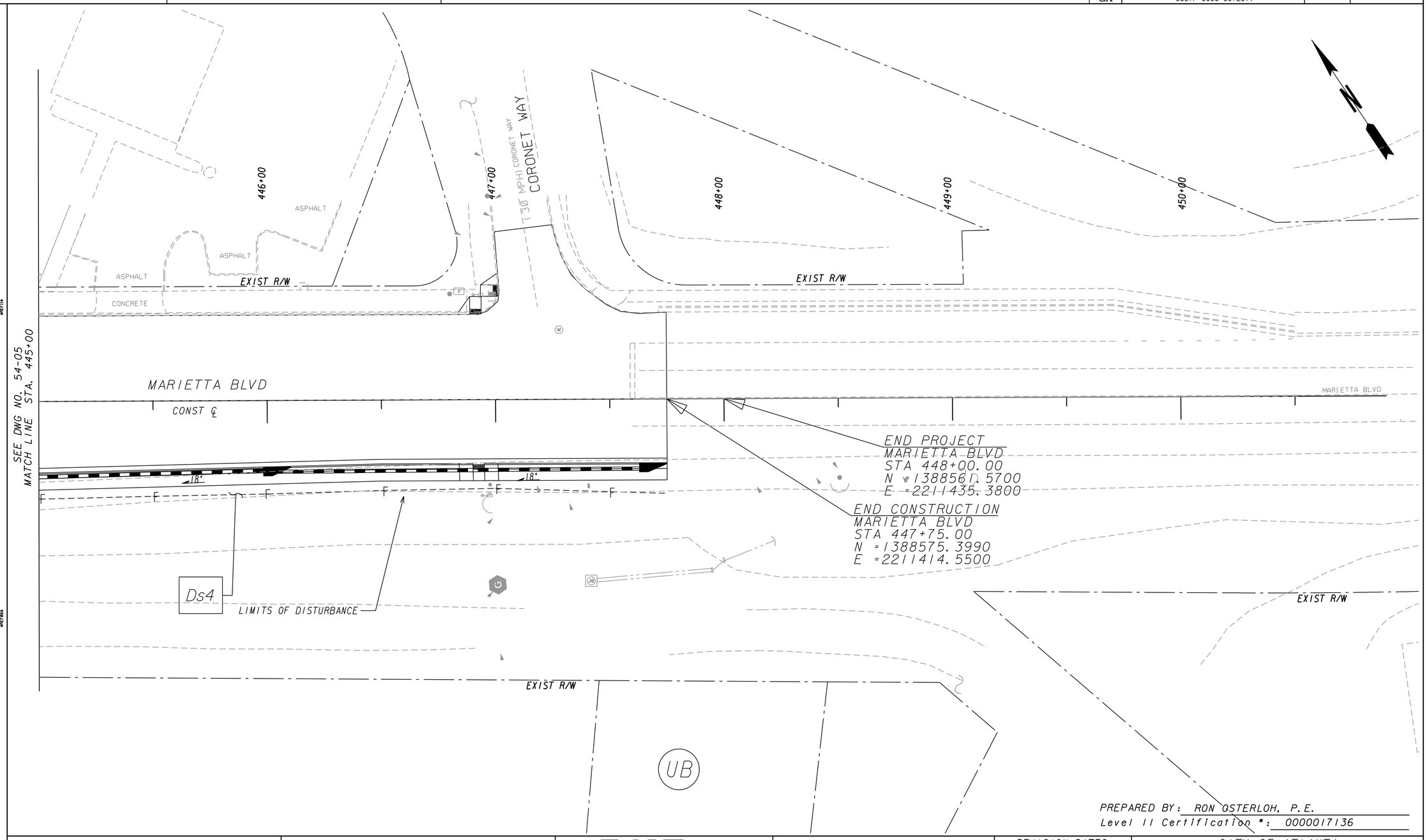

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REVISION DATES		

CITY OF ATLANTA

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PHASE 2 BMP LOCATION DETAILS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-22

3/1/2007 GPLN

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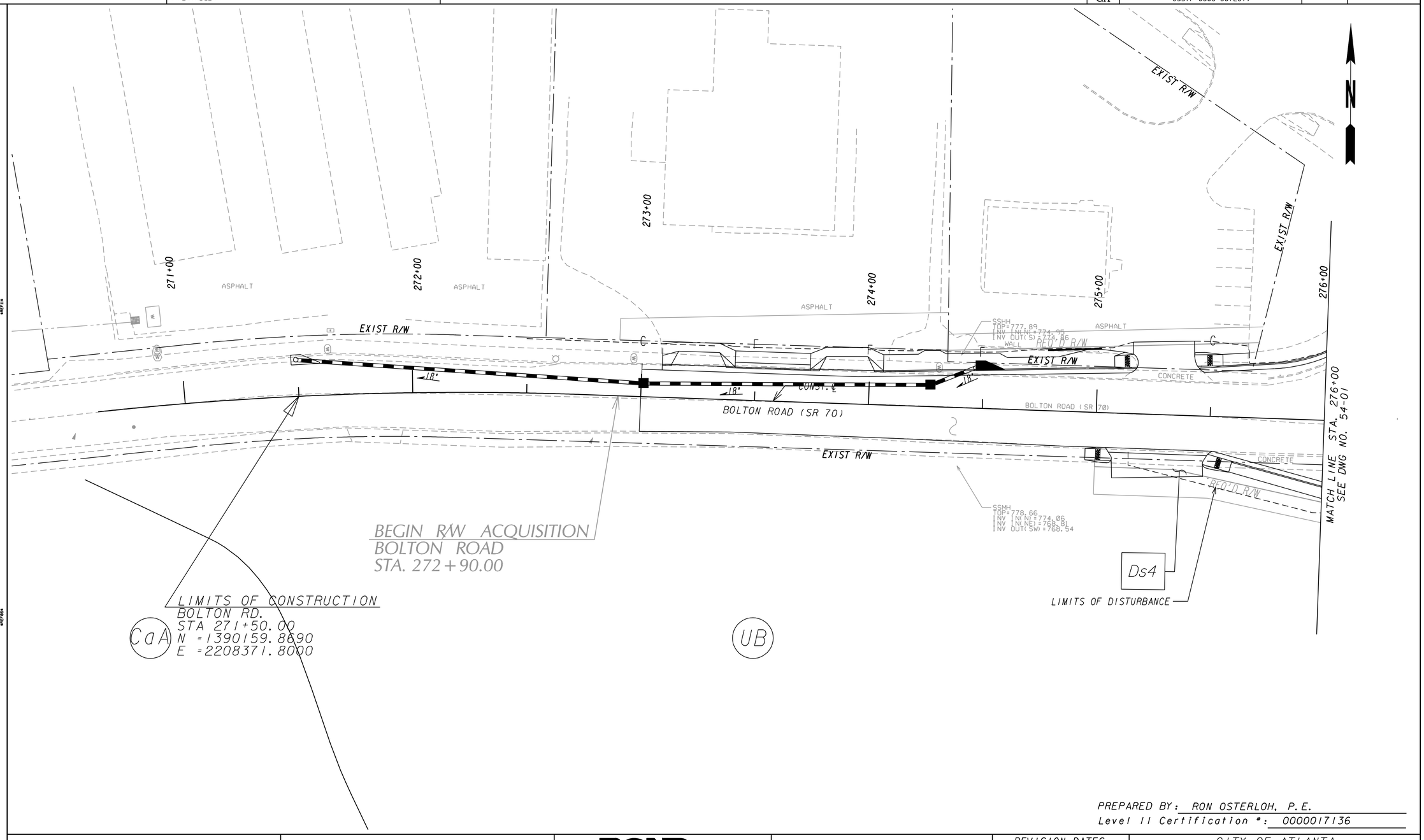

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REVISION DATES		

CITY OF ATLANTA

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PHASE 2 BMP LOCATION DETAILS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No.
54-23

3/1/2007 GPLN

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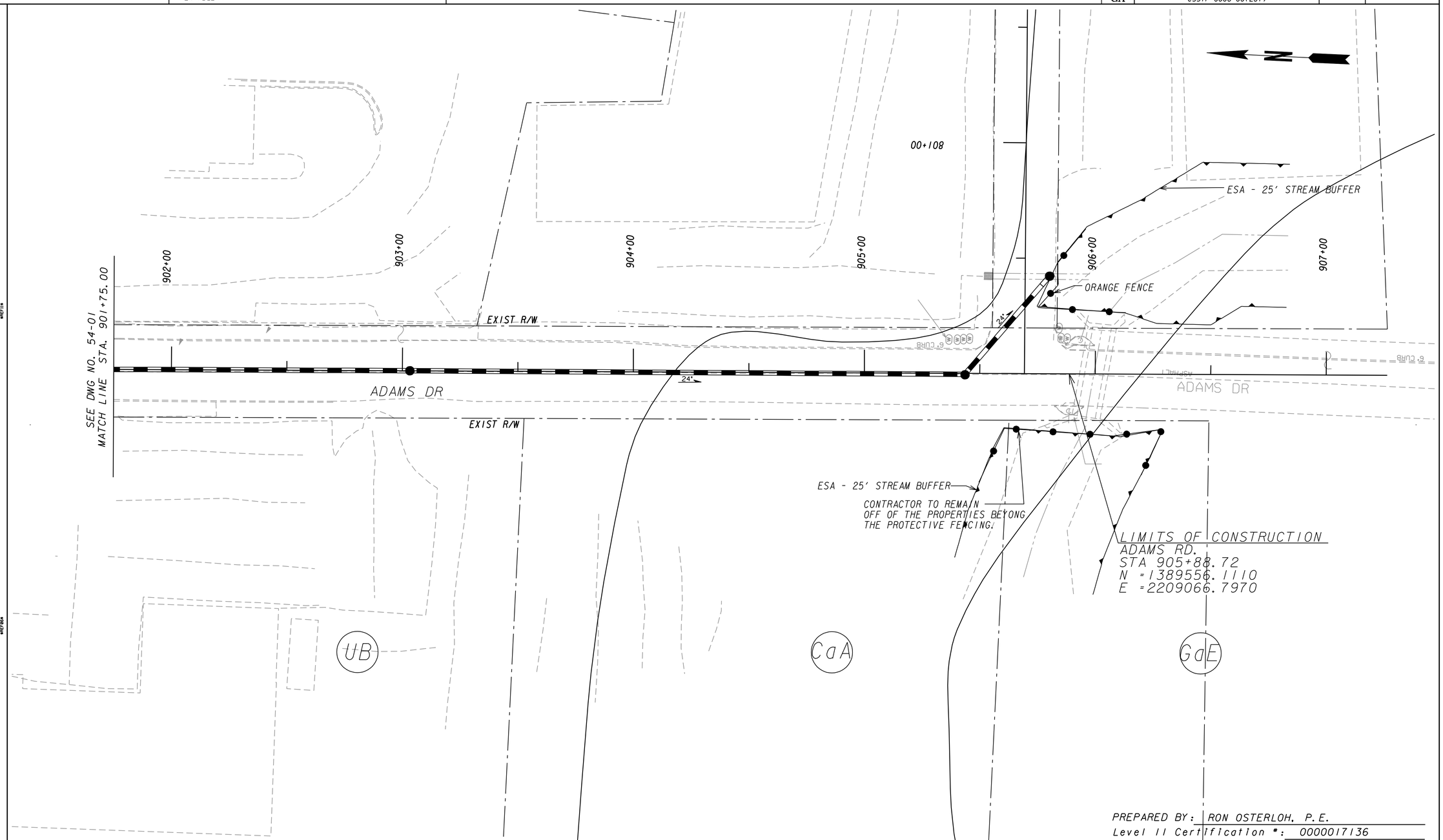

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CITY OF ATLANTA

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PHASE 2 BMP LOCATION DETAILS

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 54-24

3/1/2007 GPLN

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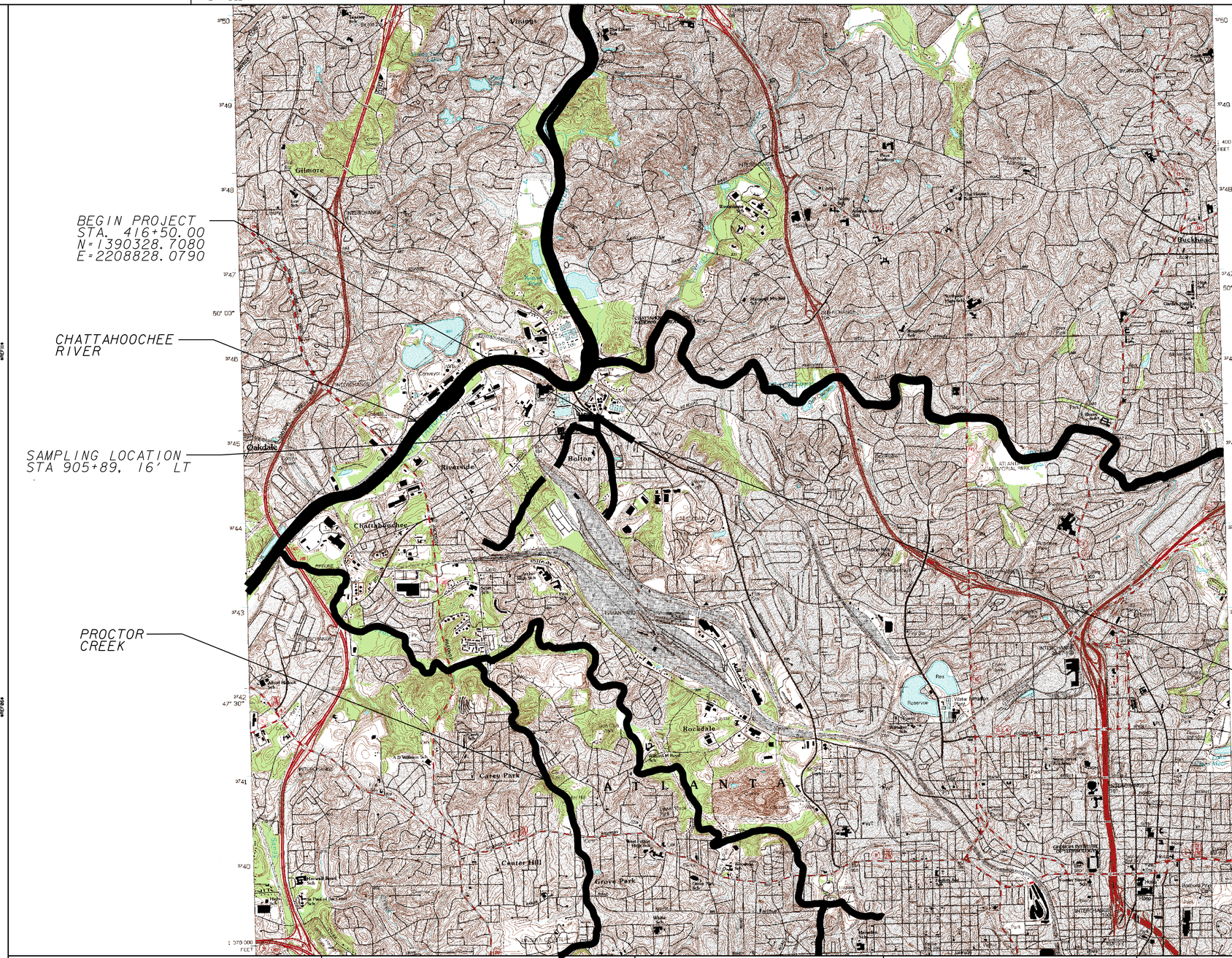

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EROSION CONTROL WATERSHED MAP

FULTON COUNTY
BOLTON RD AT MARIETTA BLVD

DRAWING No. 55-01