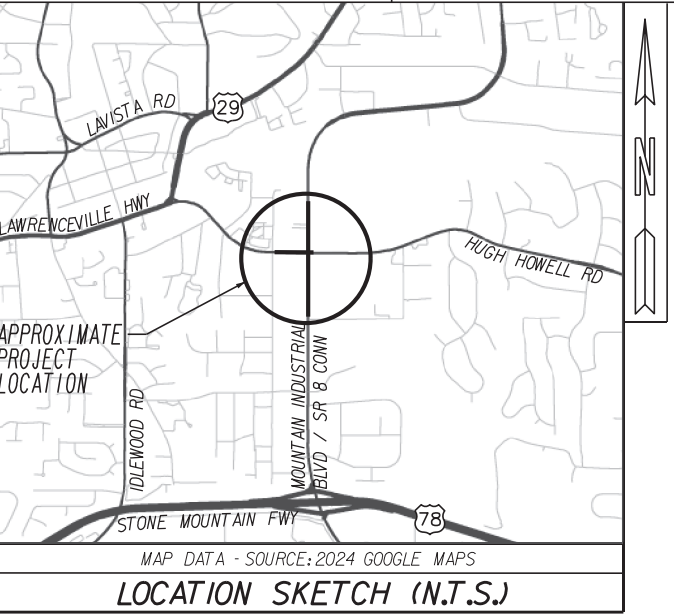


CITY OF TUCKER
DEKALB COUNTY
PLAN AND PROFILE OF PROPOSED
INTERSECTION IMPROVEMENT
MOUNTAIN INDUSTRIAL BOULEVARD/
SR 8 CONN AT HUGH HOWELL ROAD
STATE FUNDED PROJECT



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

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2024 CONSTRUCTION STANDARDS AND DETAILS BOOK AND ATTACHED APPLICABLE REVISIONS. THE 2024 CONSTRUCTION STANDARDS AND DETAILS BOOK IS AVAILABLE AT:
<http://mydocs.dot.ga.gov/info/gdtpubs/ConstructionStandardsAndDetails/Forms/AllItems.aspx>
ANY REVISIONS CONTAINED WITHIN THIS PLAN SET SUPERSEDE THE 2024 CONSTRUCTION STANDARDS AND DETAILS BOOK WHICH THEY REVISE OR IN WHICH THERE IS A CONFLICT.



DESIGN DATA:
TRAFFIC A.D.T.: 36,550 (BASE YR, 2024)
TRAFFIC A.D.T.: 40,350 (DESIGN YR, 2044)
TRAFFIC D.H.V.: 2,885 (AM) / 2,885 (PM)
DIRECTIONAL DIST: 50.4% (AM), 57.4% (PM)
% TRUCKS: 6.0% (AM) / 6.0% (PM)
24 HR. TRUCKS %: 7.5%
SPEED DESIGN: 45 MPH

LOCATION & DESIGN
APPROVAL DATE: 09/15/2022

FUNCTIONAL CLASS:
MOUNTAIN INDUSTRIAL BLVD- PRINCIPAL ARTERIAL

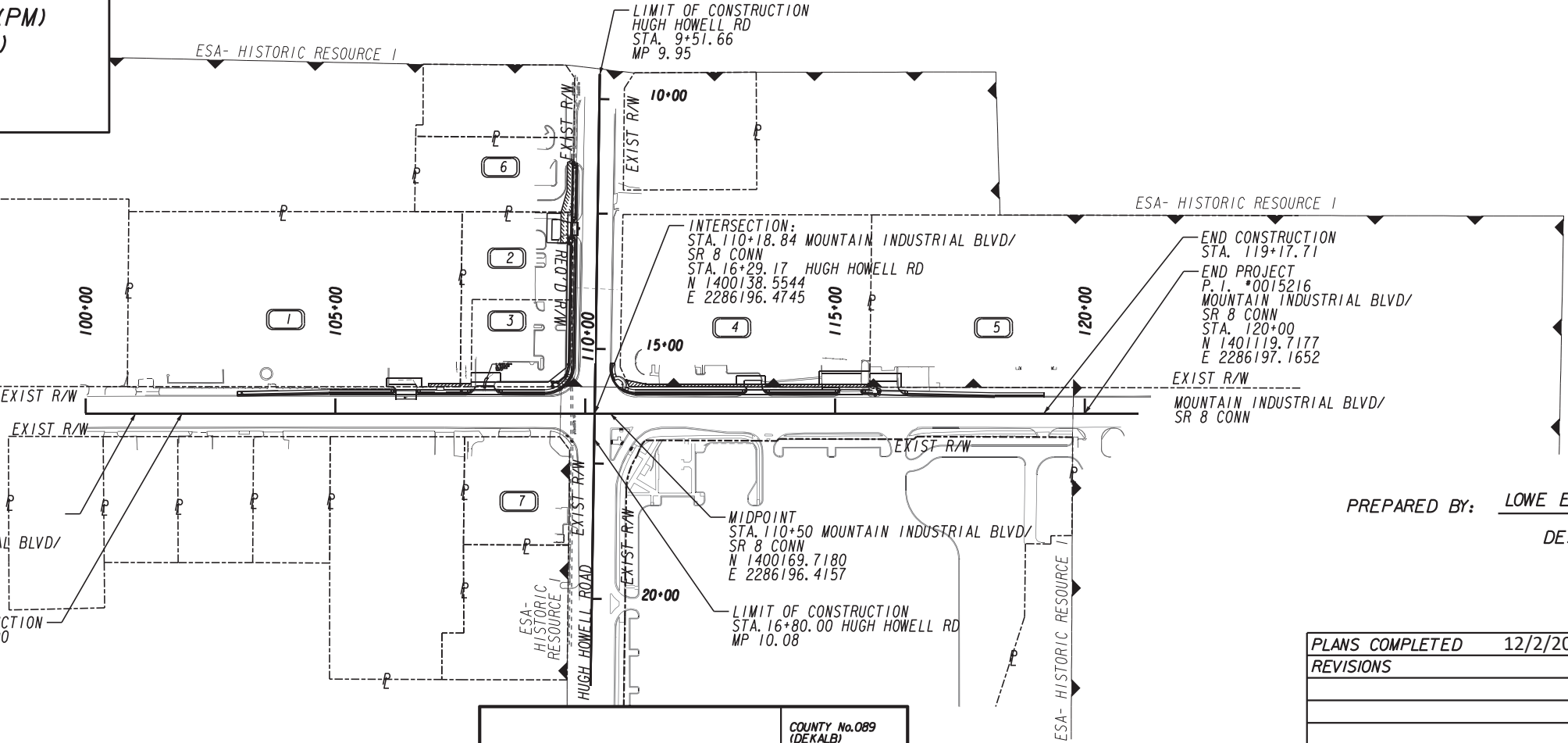
THIS PROJECT IS 100% IN
DEKALB COUNTY AND IS
100% IN CONG. DIST. NO. 4.
PROJECT DESIGNATION: EXEMPT

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

BEGIN PROJECT
P.I. *0015216
MOUNTAIN INDUSTRIAL BLVD/
SR 8 CONN
STA. 101+00
N 1399219.7183
E 2286195.6662

BEGIN CONSTRUCTION
STA. 101+93.00

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



PREPARED BY: LOWE ENGINEERS, LLC
DESIGN

LENGTH OF PROJECT	COUNTY No. 089 (DEKALB) Project No. 0015216
	MILES
NET LENGTH OF ROADWAY	0.3598
NET LENGTH OF BRIDGES	--
NET LENGTH OF PROJECT	0.3598
NET LENGTH OF EXCEPTIONS	--
GROSS LENGTH OF PROJECT	0.3598



PLANS COMPLETED	12/2/2024	
REVISIONS		



THE DRAWINGS AS LISTED BELOW
HAVE BEEN SIGNED AND SEALED BY

RICHARD J. MEEHAN
PE No. PE020033

LOWE ENGINEERS, LLC
990 HAMMOND DRIVE, SUITE 900
ATLANTA, GA 30328
CERTIFICATE OF AUTHORIZATION No. : PEF003110
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE: 06/30/2024

DRAWING No.

DRAWING DESCRIPTION

01-0001	COVER
01-0002	SIGNING AND SEALING
02-0001	INDEX
03-0001	REVISION SUMMARY
04-0001 TO 04-0004	GENERAL NOTES
05-0001 TO 05-0002	TYPICAL SECTIONS
06-0001 TO 06-0002	SUMMARY OF QUANTITIES
07-0001	QUANTITIES BY AMENDMENT
08-0001	QUANTITIES ON CONSTRUCTION
10-0001 TO 10-0002	TRAFFIC DIAGRAM
13-0001 TO 13-0006	CONSTRUCTION PLAN
15-0001 TO 15-0003	MAINLINE PROFILE
17-0001	DRIVEWAY PROFILES
21-0001	DRAINAGE AREA MAP
22-0001	DRAINAGE PROFILES
23-0001 TO 23-0011	CROSS SECTIONS
24-0000 TO 24-0000A	UTILITY PLANS LEGEND
24-0001 TO 24-0006	UTILITY PLANS
26-0001 TO 26-0006	SIGNING AND MARKING PLANS
27-0001 TO 27-0003	SIGNAL PLANS
31-0001 TO 31-0002	RETAINING WALL ENVELOPES
38-0001 TO 38-0002	SPECIAL CONSTRUCTION DETAILS
52-0001	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (03/2017)
52-0002	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (11/2018)
52-0003	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (03/2017)
52-0004	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (03/2017)
52-0005	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (03/2017)
52-0006	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (11/2018)
52-0007	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (03/2017)
54-0001 TO 54-0006	BMP LOCATION DETAILS, INITIAL STAGE
54-0007 TO 54-0012	BMP LOCATION DETAILS, INTERMEDIATE/FINAL STAGE
56-0001	D-24A TEMPORARY SILT FENCE (09/2022)
56-0002	D-24B TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER (09/2022)
56-0003	D-24C TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (09/2022)
56-0004	D-54 SOD INSTALLATION (04/2016)
60-0001 TO 60-0008	RIGHT OF WAY PLANS

NOTE:
DRAWINGS IN SECTIONS 52 AND 56 ARE GDOT STANDARDS
AND DETAILS AND ARE NOT COVERED BY THIS SIGNATURE
AND SEAL.



City of
Tucker

LOWE
ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

REVISION DATES

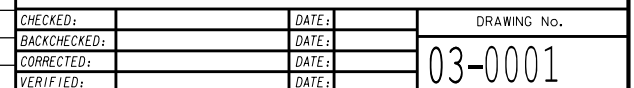
SIGNING AND SEALING

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

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

01-0002

[illegible][illegible]

[illegible]

GENERAL NOTES

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, CURRENT EDITION, AND SUPPLEMENTS THERETO, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON 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 PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY UNDER THIS REQUIREMENT EXCEPT AS NOTED BELOW. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE 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 PLANS AND THEIR EXISTENCE 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 CONSTRUCTION AND ARE NOT COVERED AS SPECIFIC ITEMS IN THE DETAILED ESTIMATE ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF THE WORK.
3. UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUBSECTION 105.06 OF THE GDOT STANDARD SPECIFICATIONS "COOPERATION WITH UTILITIES."
4. THE FOLLOWING UTILITIES HAVE FACILITIES IN THE PROJECT AREA:

UTILITY OWNER	SERVICE
ATLANTA GAS & LIGHT C	GAS
AT&T	TELEPHONE
DEKALB COUNTY WATER A	WATER/ SEWER
GEORGIA POWER COMPANY	ELECTRICITY
ZAYO COMMUNICATIONS	COMMUNICATION
COMCAST	TELEPHONE
VERIZON BUSINESS	TELEPHONE
CENTURY LINK	INTERNET

5. THE GRADING COMPLETE QUANTITY IS A LUMP SUM THAT INCLUDES CUT, FILL, SAWCUTTING, SELECTIVE DEMOLITION, AND ALL CLEARING AND GRUBBING REQUIRED FOR THE PROJECT. SEE GDOT SPECIFICATION SECTION 210 FOR COMPLETE DETAILS.
6. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED SUFFICIENT TO RETARD DUST. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
7. THE TOTAL AREA SHOWN ON THE PLANS FOR GRASSING IS FOR INFORMATION ONLY. THE CITY OF TUCKER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY. THE CONTRACTOR SHALL DETERMINE THE ACTUAL AREA TO BE GRASSED. NO CLAIMS WILL BE CONSIDERED FOR COMPENSATION IF THE CONTRACTOR RELIES ON THE AREA SHOWN ON THE PLANS.
8. TYPE OF GRASS OR SOD USED ON THIS PROJECT WILL BE REQUIRED TO MATCH ANY TYPE OF GRASS OR SOD WHICH MAY BE PLANTED AND GROWING ON THE ADJACENT LAWN. I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA ETC. NO SEPARATE PAYMENT SHALL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
9. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GDOT STANDARD SPECIFICATIONS.
10. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.
11. HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATE SYSTEM.

12. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED WILL BE PAVED BACK TO THE TIE IN POINT OR REQUIRED RIGHT OF WAY, WHICHEVER IS GREATER. ALL DRIVEWAYS OVER 11% IN GRADE SHALL BE PAVED WITH CONCRETE UNLESS OTHERWISE NOTED IN THE PLANS. ALL OTHER DRIVEWAYS SHALL BE REPLACED AS FOLLOWS: ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE AND ASPHALT FOR EARTH / GRAVEL DRIVES. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. EXISTING DRIVEWAY LOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA; THE CONTRACTOR SHALL CONSTRUCT DRIVEWAYS TO MATCH THE LOCATION OF EXISTING DRIVEWAYS AT THE TIE IN POINT, IF APPLICABLE. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. DRIVES SHALL BE CONSTRUCTED USING:

COMMERCIAL:	
ASPHALT -	165 LB/SY RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME 220 LB/SY RECYCLED ASPHALT CONC, 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME GRADED AGGREGATE BASE, 6".
CONCRETE -	DRIVEWAY CONCRETE, 8 IN THICK (URBAN SHOULDER) CONC VALLEY GUTTER, 8 IN.

13. WHERE WET SUBGRADE IS ENCOUNTERED AND WHERE IDENTIFIED BY THE ENGINEER, UNDERDRAIN PIPE WITH DRAINAGE AGGREGATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER TO AID IN DEWATERING THE SUBGRADE. 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 REQUIREMENT.
14. ALL EXISTING PIPE NO LONGER IN USE SHALL BE REMOVED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER. ALL COST FOR REMOVAL SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR GRADING COMPLETE.
15. NO SEPARATE PAYMENT SHALL BE MADE FOR THE REMOVAL OF ANY REQUIRED TEMPORARY PIPE OR DRAINAGE STRUCTURES. ALL COSTS ASSOCIATED WITH SUCH REMOVALS SHALL BE INCLUDED IN THE BID PRICE FOR GRADING COMPLETE.
16. IN AREAS WHERE TYPE 2 CURB IS USED, DRAINAGE STRUCTURES 1033D AND 1034D WILL BE REQUIRED. IN AREAS WHERE TYPE 7 CURB IS USED, DRAINAGE STRUCTURES 1033G AND 1034G WILL BE REQUIRED.
17. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED BY THE ENGINEER TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE. THE COST FOR SAWED JOINTS, WHEN REQUIRED, SHALL BE INCLUDED IN THE GRADING COMPLETE QUANTITY.
18. WHERE EXISTING PAVEMENT MARKINGS AND LINES 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", OR AS DIRECTED BY THE ENGINEER. TRAFFIC SHALL NOT BE ALLOWED ON ANY PAVEMENT NOT PROPERLY STRIPED.
19. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 104.05 AND 107.07 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND SEQUENCE OF OPERATIONS IN REGARDS TO MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.
20. THE BID PRICE FOR TRAFFIC CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO; CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY SIGNING AND PAVEMENT MARKINGS, BARRICADES, CHANNELIZING DEVICES, ETC. REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION. ALL TEMPORARY SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION AND/OR AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR ADDITIONAL DETOUR SIGNAGE NOT SHOWN ON DETOUR PLAN.
21. 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.
22. 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, REMOVED OR REGRADED AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
23. QUANTITIES SHOWN ON THE PLANS ARE FOR ESTIMATION PURPOSES ONLY. CONTRACTOR IS TO VERIFY ALL QUANTITIES TO BE INCLUDED IN THE BID PRICE.



REVISION DATES			GENERAL NOTES			
			MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN AT HUGH HOWELL RD			
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			BACKCHECKED:		DATE:	04-0001
			CORRECTED:		DATE:	
			VERIFIED:		DATE:	

6/6/2024 dracheleau		4:42:32 PM		LOWE ENGINEERS gplotborder-VB1-P0.tbl		0015216-04-0001.dgn								P. I. No. 0015216																																																																					
GENERAL NOTES (CONTINUED)																																																																																			
24. 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 ON SITE INSPECTION OR AS DIRECTED BY THE ENGINEER. 25. 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 THE GEORGIA STANDARD SPECIFICATIONS AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", CURRENT EDITION REGARDING EROSION CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE TO KEEP 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. 26. THIS PROJECT HAS A TOTAL AREA OF 0.87 ACRES AND THE EXPECTED DISTURBED AREA IS 0.87 ACRES. THE TOTAL AREA IS THE TOTAL AREA OF THE RIGHT-OF-WAY AND EASEMENTS, AND THE DISTURBED AREA IS THE AREA ASSOCIATED WITH CLEARING, GRADING, EXCAVATING, FILLING OF LAND, OR OTHER SIMILAR ACTIVITIES WHICH MAY RESULT IN SOIL EROSION, AS DEFINED UNDER "CONSTRUCTION ACTIVITIES" IN THE STATE OF GEORGIA NATURAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. GARI00002. 27. AGGREGATE SURFACE COURSE FOR TEMPORARY DRIVEWAYS, INCLUDING MATERIAL, HAUL AND PLACEMENT SHALL BE USED AT THE ENGINEER'S DIRECTION TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC THROUGH THE CONSTRUCTION AREA DURING INCLEMENT WEATHER. WHEN USED FOR THIS PURPOSE, SECTION 318 OF THE GEORGIA D.O.T. 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 THE USE OF THE FOLLOWING MATERIALS: A. GRADED AGGREGATE, ARTICLE 815.2.01 B. COURSE AGGREGATE, SIZE 467, ARTICLE 800.2.01 C. STABILIZED AGGREGATE, TYPE I OR II, SECTION 803.2 OR 803.2.02 D. CRUSHED STONE, ARTICLE 806.2.01 28. CONSTRUCTION LAYOUT WILL BE REQUIRED BY THE CONTRACTOR. ALL COST FOR THIS ITEM WILL BE INCLUDED IN THE BID PRICE FOR GRADING COMPLETE. 29. CITY OF TUCKER ENGINEER SHALL BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE THIS ACTION WITH THE PROJECT ENGINEER. 30. COORDINATE WITH THE CITY OF TUCKER FOR INSPECTIONS DURING CONSTRUCTION. 31. THE 24 HR EMERGENCY CONTACT NUMBER FOR THE CITY OF TUCKER IS 770-865-5645. 32. A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGE IS NOT REQUIRED FOR THIS PROJECT. 33. THERE IS NO KNOWN SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE AS SHOWN IN GA. SPECIFICATION 201 TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT. 34. CONTRACTOR IS RESPONSIBLE FOR ONSITE DETOURS TO CONSTRUCT PROJECT. 35. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATIONS IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT. 36. HANDICAP RAMPS SHALL BE CONSTRUCTED AT ALL POINTS WHERE SIDEWALK TERMINATES AT CURB OR IS BISECTED BY DRIVEWAYS IF NECESSARY. THE TYPE OF RAMP MAY BE MODIFIED BY THE ENGINEER. PAYMENT FOR HANDICAP RAMPS SHALL BE INCLUDED IN THE PAYMENT FOR CONCRETE SIDEWALK - PAY ITEM 441-0104. 37. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT LANDFILL OR IN ALL ENGINEERED FILL. 38. CONTRACTOR IS TO POTHOLE EXISTING UTILITES AND CONFIRM EXISTING CONDITIONS, INCLUDING ANY ASSUMPTIONS NOTED IN THESE PLANS, AND PROVIDE ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION, OR PROVIDE NOTICE OF AREAS THAT ARE NOT ABLE TO BE CONFIRMED UNTIL AFTER CONSTRUCTION COMMENCES. 39. ALL PROPOSED STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP). INSTALLATION OF THE PROPOSED PIPE SHALL CONFORM TO THE LATEST MATERIAL AND INSTALLATION SPECIFICATIONS PUBLISHED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION. 40. MAILBOXES TO BE RESET WITHIN LANDSCAPE STRIP ADJACENT TO SIDEWALK SO AS NOT TO INTRUDE INTO THE STREET OR SIDEWALK. CONTRACTOR RESPONSIBLE FOR DAMAGES TO MAILBOXES. 41. CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SPRINKLER HEADS WITHIN THE CONSTRUCTION LIMITS. SPRINKLER HEAD REPAIR OR REPLACEMENT SHALL BE INCLUDED IN BID PRICE FOR GRADING COMPLETE. ANY SPRINKLERS MUST BE RESET SUCH THAT THEY ARE 12 INCHES BEHIND THE SIDEWALK AND WILL NOT SPRAY ACROSS THE SIDEWALK. ANY TREES CALLED TO BE TRANSPLANTED SHALL BE INCLUDED IN THE BID PRICE FOR GRADING COMPLETE. 42. CONTRACTOR SHALL PROVIDE 48 HOUR ADVANCED NOTICE TO PROPERTY OWNERS BEFORE INITIAL WORK IS DONE AT THESE MILESTONES: IN FRONT OF PROPERTY REMOVAL OF DRIVEWAY POURING OF DRIVEWAY IRRIGATION LINES UTILITY OUTAGES 43. CONTRACTOR SHALL NOT CLEAR AND GRUB ANY VEGETATION BEYOND CONSTRUCTION LIMITS. THEY ARE DESIGNATED TO REMAN. 44. ALL GRAVITY WALLS ARE TO BE FACED WITH A STONE VENEER MOLDED CONCRETE SURFACE. THIS FACADE SHALL COVER THE FRONT OF WALLS. CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER TO FINALIZE VISIBLE PORTION OF WALLS. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE OF THE RETAINING WALL, GDOT PAY ITEM 500-3201 CLASS B CONCRETE, RETAINING WALL. 45. ALL PROPOSED DETECTABLE WARNING SURFACES SHALL BE RED AND SHALL MATCH EXISTING IN SHADE AND PATTERN. 46. ALL RAMPS IN THE RADII ARE TO BE CONSTRUCTED OF 8" CONCRETE TO BE PAID FOR UNDER THE 8" SIDEWALK PAY ITEM (441-0108 CONCRETE SIDEWALK 8 IN.). <tr><td colspan="2">10/23/2015</td><td colspan="2">GPLN</td><td colspan="2"> TUCKER, GEORGIA City of Tucker LOWE ENGINEERS 990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328 PHONE 770.857.8400 FAX 770.857.8401 </td><td colspan="2"></td><td colspan="2"><table><tr><th colspan="3">REVISION DATES</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table><table><tr><th colspan="4">GENERAL NOTES</th></tr><tr><td colspan="4">MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN</td></tr><tr><td colspan="4">AT HUGH HOWELL RD</td></tr><tr><td>CHECKED:</td><td></td><td>DATE:</td><td></td></tr><tr><td>BACKCHECKED:</td><td></td><td>DATE:</td><td></td></tr><tr><td>CORRECTED:</td><td></td><td>DATE:</td><td></td></tr><tr><td>VERIFIED:</td><td></td><td>DATE:</td><td></td></tr></table> DRAWING No. 04-0002 </td></tr>																10/23/2015		GPLN		TUCKER, GEORGIA City of Tucker LOWE ENGINEERS 990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328 PHONE 770.857.8400 FAX 770.857.8401				<table><tr><th colspan="3">REVISION DATES</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table> <table><tr><th colspan="4">GENERAL NOTES</th></tr><tr><td colspan="4">MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN</td></tr><tr><td colspan="4">AT HUGH HOWELL RD</td></tr><tr><td>CHECKED:</td><td></td><td>DATE:</td><td></td></tr><tr><td>BACKCHECKED:</td><td></td><td>DATE:</td><td></td></tr><tr><td>CORRECTED:</td><td></td><td>DATE:</td><td></td></tr><tr><td>VERIFIED:</td><td></td><td>DATE:</td><td></td></tr></table> DRAWING No. 04-0002		REVISION DATES																														GENERAL NOTES				MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN				AT HUGH HOWELL RD				CHECKED:		DATE:		BACKCHECKED:		DATE:		CORRECTED:		DATE:		VERIFIED:		DATE:	
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GENERAL NOTES - STANDARD SIGNS

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

2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.

3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY. IF SIDEWALK IS PROPOSED OR EXISTING, THE SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE SIDEWALK.

4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.

4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

4c. WHEN GUARDRAIL IS PRESENT OR BEING PROPOSED, SIGNS SHALL BE POSTED AN UNSTIPULATED DISTANCE BEHIND GUARDRAIL.

5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/4 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.

6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.

8. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.

9. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).

10. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

11. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SIGNING SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.

12. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 1/4 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

14. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.

15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.

16. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.

17. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.



City of
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LOWE
ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

REVISION DATES

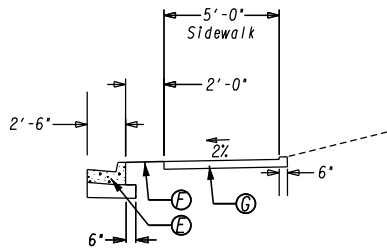
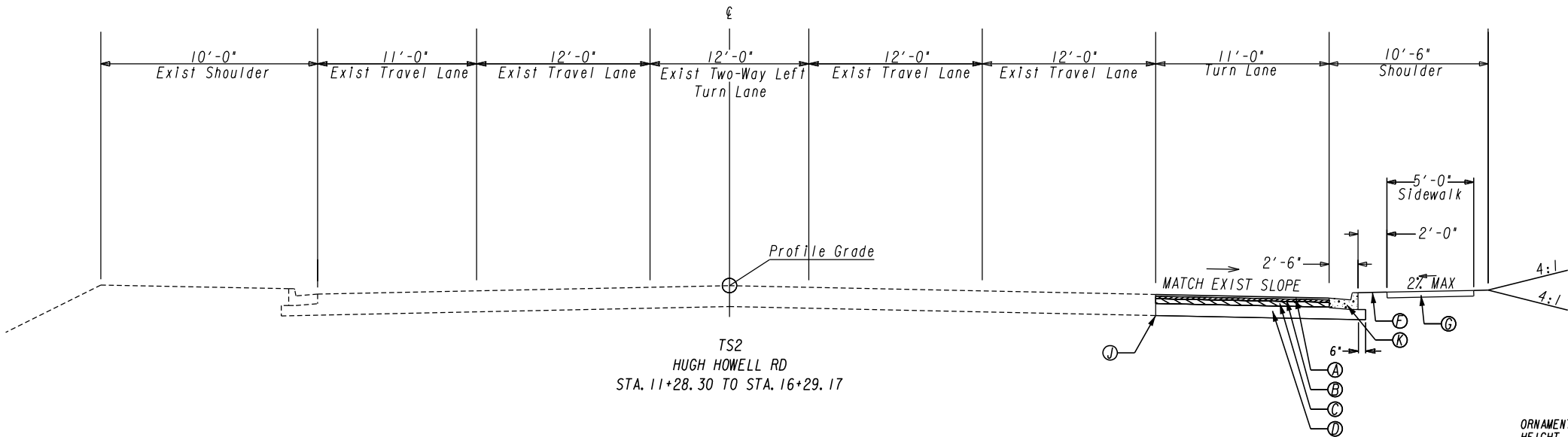
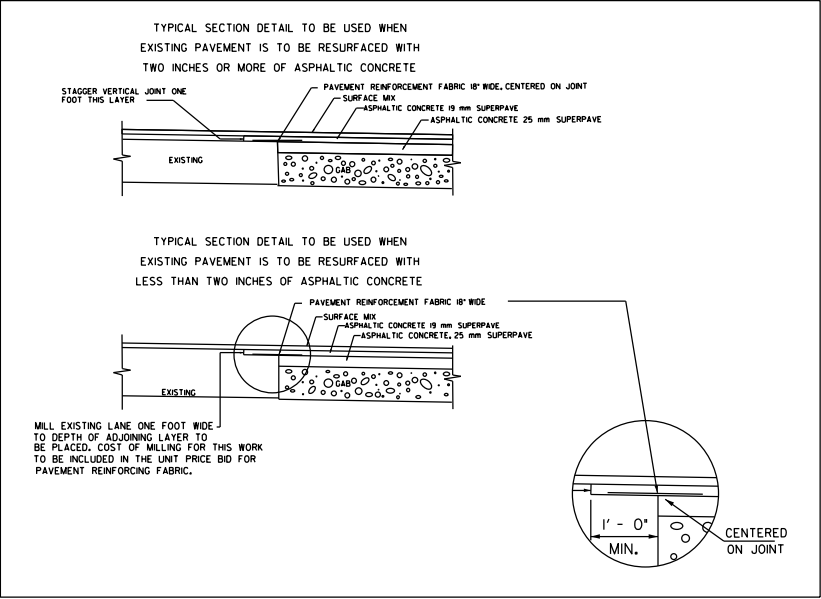
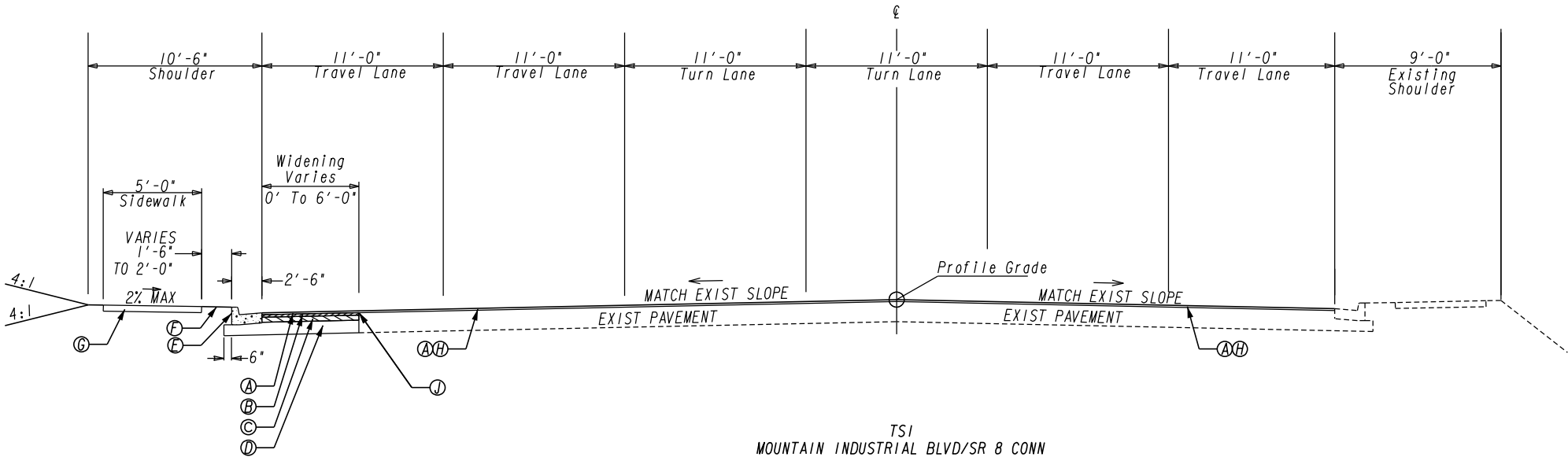
GENERAL NOTES

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

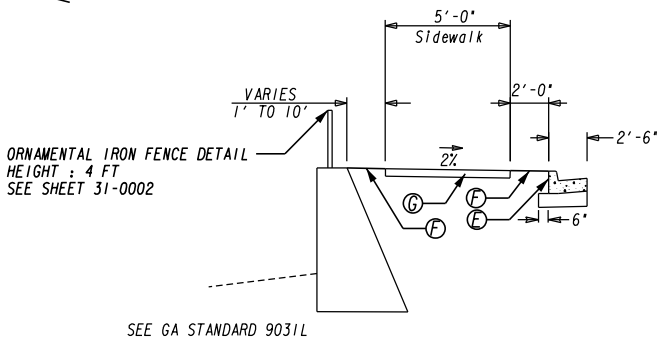
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04-0003

Environmental Resources Impact Table						
These resources and the restrictions listed are governed by state and federal law.						
Resource Name (from Section A of the ECT)	Location			Permitted Construction Activity (from Section A of the ECT)	Special Provision? (from Section B of the ECT)	Comments (from Section C of the ECT, comments only)
	Beginning STA	Ending STA	Side			
Listed Species	--	--	--	No activity	None	NA
Stone Mountain Industrial Park Historical District	Entire Site	Entire Site	Entire Site	ROW acquisition, temporary and permanent easements, the removal of landscaped grass strips and sections of lawn, and the construction of sidewalks and a gravity wall in the southwest quadrant of the intersection partially within the NRHP/GRHP-eligible boundary .	None	NA
Optima Enclosures, Parcel 1 (historical recognized environmental condition (HREC))	STA 100+83.51	STA 107+49.82	LT	Easement is required from this HREC	None	NA
Elma Envestmont LLC, N/A Parcel # (offsite recognized environmental concern (REC) and potential vapor encroachment condition (VEC))	STA 107+58.52	STA 109+66.73	RT	Easement is required from this offsite REC and potential VEC	None	NA
PMG00142 Chemical Specialist/Hepaco Waste Water Plant/Unocal Chemical Division, N/A Parcel # (offsite REC and potential VEC)	Off Site	Off Site	Off Site	No activity	None	NA
404 Permits and Variances (from Section D of the ECT)		Expiration dates (if applicable) Contact GDOT OES 6 months prior to expiration, if work will extend beyond this date.				
None						
None						
None						
If there are no resources, indicate "None" in the first row. Include this table in the General Notes section of the plans as always.						
ECT = Environmental Commitments Table, AKA "Green Sheet".						



TS3
CURBED SIDEWALK
SEE DETAIL SHEET 05-0002
SEE 13-0001 TO 13-0006 FOR LOCATIONS



TS4
WALL #1
STA. 12+82.30 TO STA. 15+69.83
SEE SHEET 31-0001 TO 31-0002 FOR DETAILS

- Ⓐ RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LBS/SY)
- Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SY)
- Ⓒ RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LBS/SY)
- Ⓓ GR AGGR BASE CRS, INCL MATL (12 INCH)
- Ⓔ CONC CURB & GUTTER, 8IN X 24IN, TP 2
- Ⓕ SOD
- Ⓖ CONC SIDEWALK, 4 IN
- Ⓗ MILL ASPH CONC PVMT, VARIABLE DEPTH
- Ⓘ PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH
- Ⓚ CONC CURB & GUTTER, 8IN X 30IN, TP 2

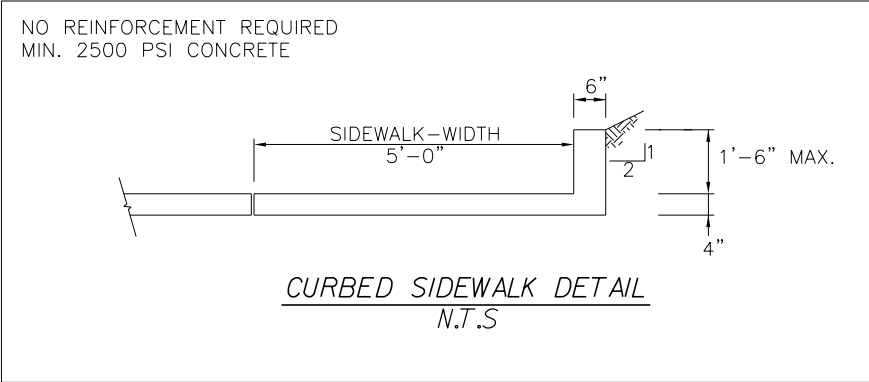


N. T. S

REVISION DATES

TYPICAL SECTIONS
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL

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



NOTE: SEE 13-0001 TO 13-0006 FOR LOCATIONS

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%

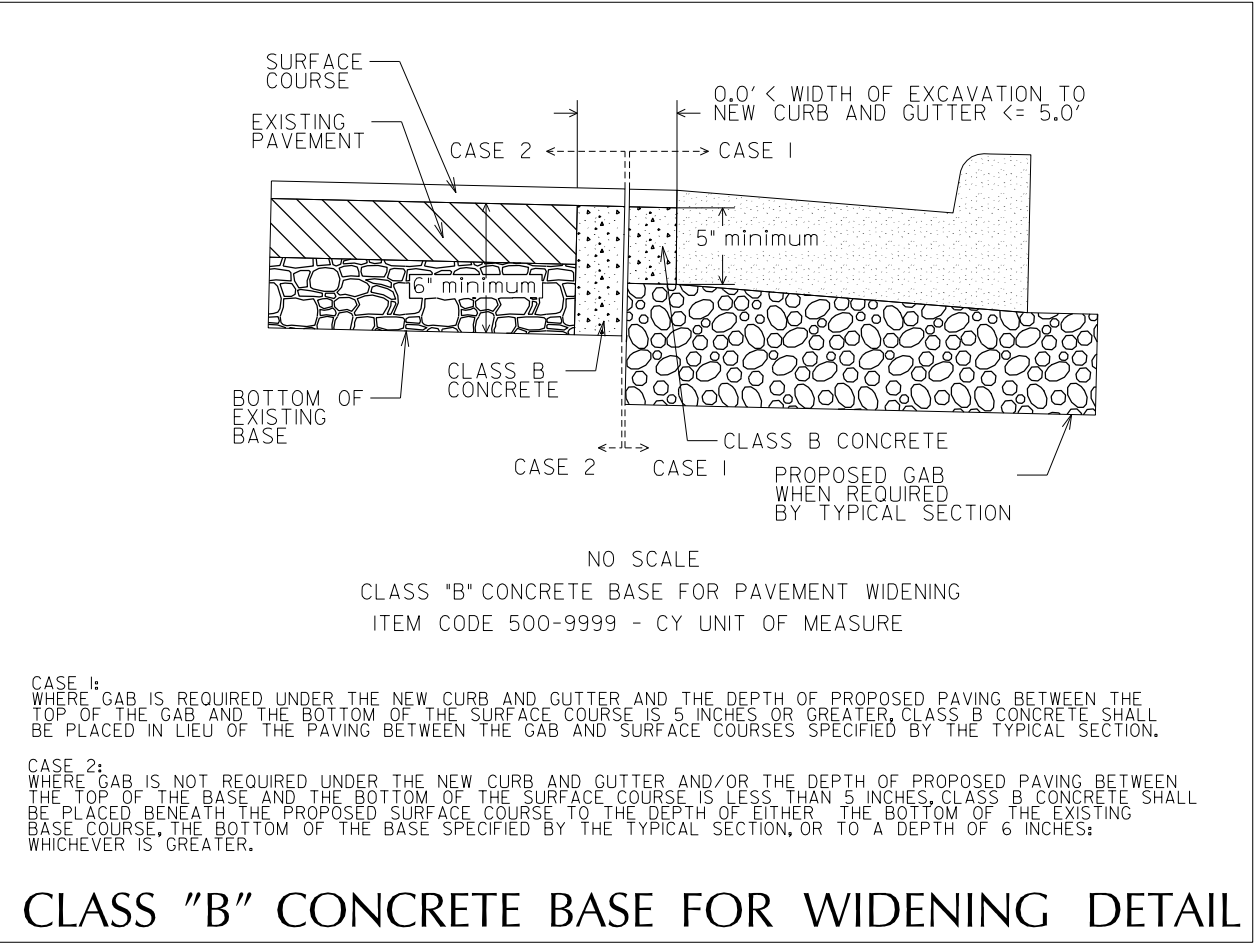
LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE
ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE
LOW POINT OF VERTICAL CURVES.

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).



N. T. S.

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TYPICAL SECTIONS

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AT HUGH HOWELL RD

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05-0002

SUMMARY OF QUANTITIES

210-0100
GRADING COMPLETE - 0015216
LUMP SUM

150-1000
TRAFFIC CONTROL - 0015216
LUMP SUM

318-3000
AGGR SURF CRS
180 TONS

634-1200
RIGHT OF WAY MARKERS
GA. STD. 9003
EACH12

402-1802
RECYCLED ASPH CONC PATCHING,
INCL BITUM MATL & H LIME
TN100

643-8300
ORNAMENTAL FENCE
SEE SHEET 31-0001
LOCATIONL.F.
WALL #1308
TOTAL308

500-3101
CLASS A CONCRETE
(FOR CURBED SIDEWALK)
LOCATIONCY
STA. 103+03.00 TO 103+85.726.4
STA. 105+30.00 TO 106+19.666.9
STA. 106+60.94 TO 107+03.073.3
STA. 113+55.80 TO 114+02.814.3
STA. 114+73.77 TO 115+09.583.3
TOTAL24

500-3201
CLASS B CONCRETE,
RETAINING WALL*
LOCATIONCY
WALL #1108
TOTAL108
*SEE SHEETS 31-0001 and 31-0002

441-0748
CONCRETE MEDIAN, 6 IN
STATIONSY
108+0310
TOTAL10

441-6222
CONC CURB & GUTTER, 8 IN X 30 IN, TP 2
GA STD 9032B
STATION TO STATIONSIDE LF
HUGH HOWELL RD
11+28.3012+47.83RT120
12+73.4715+92.21RT319
SUBTOTAL438
MT. INDUSTRIAL BLVD
103+03.00106+19.89LT317
106+61.00107+79.18LT118
108+18.32109+79.14LT161
110+50.01113+23.99LT274
113+54.00115+10.22LT156
115+51.48115+92.26LT41
116+26.57119+17.71LT291
SUBTOTAL1360
TOTAL1798

PERMANENT EROSION CONTROL		
ITEM	UNIT	TOTAL
700-9300 SOD	SY	2000
700-7000 AGRICULTURAL LIME	TN	2
700-8000 FERTILIZER MIXED GRADE	TN	1
700-8100 FERTILIZER NITROGEN CONTENT	LB	25

TEMPORARY EROSION CONTROL		
ITEM	UNIT	TOTAL
163-0232 TEMPORARY GRASSING	AC	0.25
171-0030 TEMPORARY SILT FENCE, TYPE C	LF	2060
165-0030 MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	1030
163-0550 CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	8
165-0105 MAINTENANCE OF INLET SEDIMENT TRAP	EA	8
163-0240 MULCH	TN	12

UTILITIES						
		611-8050	611-8055	611-8140	665-0250	670-9710
		ADJUST MANHOLE TO GRADE	ADJUST MINOR STRUCTURE TO GRADE	ADJUST WATER VALVE BOX TO GRADE	ADJUST GAS VALVE TO GRADE	RELOCATE EXIST FIRE HYDRANT
LOCATION	SIDE	EA	EA	EA	EA	EA
109+10.00	LT				1	
109+35.00	LT				1	
109+59.00	LT			1		
110+50.00	LT		2			
111+00.00	LT		1		1	
113+05.00	LT			1		
113+22.00	LT			1		
114+38.00	LT					1
114+39.00	LT			1		
114+52.00	LT			1		
115+49.00	LT	1				
116+64.00	LT			1		
117+08.00	LT	1				
117+15.00	LT			2		
117+19.00	LT					1
117+22.00	LT		2	1		
118+90.00	LT			1		
15+50.00	LT		2			
TOTAL		2	7	10	3	2

441-5002
CONCRETE HEADER CURB, 6IN, TP 2
LOCATIONLF
BEHIND WALL #145
STA. 114+73.77, 48' to 60' LT12
STA. 114+73.77 TO 115+09.5873
TOTAL130

441-0104
CONC SIDEWALK, 4 IN
STATION TO STATIONSIDE SY
MT. INDUSTRIAL BLVD
103+03.00106+20.53LT176
106+61.00107+79.18LT66
108+18.32109+19.15LT56
110+99.79113+23.99LT125
113+54.00115+10.22LT87
115+51.48115+92.26LT23
116+26.57119+17.71LT162
HUGH HOWELL RD
11+28.3012+47.81RT66
12+73.4715+32.22RT144
TOTAL905

*COST OF 6" CURBED SIDEWALK WILL BE INCLUDED IN 441-0104

441-0108
CONC SIDEWALK, 8 IN
SY
SW Radius52
NW Radius44
TOTAL97
8 IN CONC SIDEWALK LOCATED AT INTERSECTION RADIUS

SURFACING QUANTITIES						
		UNIT	QUANTITY			TOTAL
			Mt. Industrial Blvd	Hugh Howell Rd	Driveways	
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP2 ONLY, INCL BITUM MATL & H LIME	TN	1015	101	58	1174
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	68	67	77	212
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	135	134	-	269
310-1101	GR AGGR BASE CRS, INCL MATL	TN	550	475	26	1051
413-0750	TACK COAT	GL	676	121	34	831
432-5010	MILL-ASPH CONC PVMT, VARIABLE DEPTH	SY	11679	598	685	12963
446-1100	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	LF	1542	406	-	1948
500-9999	CLASS B CONCRETE, BASE OR PVMT WIDENING	CY	110	80	-	190
441-4050	CONC VALLEY GUTTER WITH CURB, 8 IN	SY	-	-	262	262



City of
Tucker

LOWE
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990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
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REVISION DATES

SUMMARY QUANTITIES

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		06-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SUMMARY OF QUANTITIES

PAVEMENT MARKING					
ITEM		MIB	HH	UNIT	TOTAL
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	16	11	EA	27
653-0210	THERMOPLASTIC PVMT MARKING, WORD, TP 1	8	--	EA	8
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	3817	1683	LF	5500
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	4104	1183	LF	5287
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	200	97	LF	297
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	710	376	LF	1086
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	3543	1413	GLF	4956
653-3502	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	1056	532	LF	1588
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	--	28	SY	28
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	638	--	SY	638
654-1001	RAISED PVMT MARKERS TP 1	80	30	EA	110
654-1003	RAISED PVMT MARKERS TP 3	100	60	EA	160
657-1084	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, WHITE, TP PB	921	141	LF	1062

DRAINAGE ITEMS								
STRUCTURE NUMBER	LOCATION	550-5300	550-5360	550-5180	668-1100	668-1105	668-1110	611-8000
		STORM DRAIN PIPE, 30 IN, CLASS II	STORM DRAIN PIPE, 36 IN, CLASS II	STORM DRAIN PIPE, 18 IN, CLASS II	CATCH BASIN, GP 1	CATCH BASIN, GP 1, SPCL DES	CATCH BASIN, GP 1, ADDL DEPTH	ADJUST CATCH BASIN TO GRADE
		LF	LF	LF	EA	EA	LF	EA
EX-10.1	103+12.44 LT							1
A-1	107+52.17 LT	4			1			
C-2	115+80.65 LT		10			2	4.7	
C-2.1	116+47.27 LT			68	1			
C-3	114+99.13 LT			81	1			
TOTAL		4	10	149	3	2	4.7	1

OVERHEAD SIGN QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
639-2002	STEEL WIRE STRAND CABLE, 3/8 IN	LF	366
639-4002	STRAIN POLE, TP II	EA	2
639-4003	STRAIN POLE, TP III	EA	2

SIGNALS			
ITEM		TOTAL	UNIT
639-3004	STEEL STRAIN POLE, TP IV, WITH 65' MAST ARM	2	EA
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 1	1	LS
682-9950	DIRECTIONAL BORE, 5 IN	30	LF
682-9950	DIRECTIONAL BORE, 7 IN	130	LF

Station	Sign Code	Highway Signs (Reflective Sheeting Type 9)			Highway Signs (Reflective Sheeting Type 11)			Galv Steel Posts		
		TP 1 Matl, Refl Sheeting TP 9 636-1033			TP 1 Matl, Refl Sheeting TP 11 636-1036			Type 7 636-2070		
		Size	Each	Total (SF)	Size	Each	Total (SF)	Length (ft)	Quantity	Total (LF)
103+50.00 LT	R3-9B	24"x36"	1	6				15	1	15
	R3-9cP	30"x12"	1	2.5				-	-	-
	R3-9B	24"x36"	1	6				15	1	15
	R3-9dP	30"x12"	1	2.5				-	-	-
105+87.00 OH	R3-5L	30"x36"	1	7.5				-	-	-
	R3-5L	30"x36"	1	7.5				-	-	-
	M1-5	30"x36"	1	7.5				-	-	-
	R3-6R	30"x36"	1	7.5				-	-	-
105+91.00 LT	R2-1	24"x30"	1	5				13.5	1	13.5
106+16.00 LT	R1-1				30"x30"	1	6.25	13.5	1	13.5
107+78.00 LT	R1-1				30"x30"	1	6.25	13.5	1	13.5
112+19.00 LT	R1-1				30"x30"	1	6.25	13.5	1	13.5
114+52.00 OH	R3-5L	30"x36"	1	7.5				-	-	-
	R3-5L	30"x36"	1	7.5				-	-	-
	M1-5	30"x36"	1	7.5				-	-	-
	R3-6R	30"x36"	1	7.5				-	-	-
115+06.00 LT	R1-1				30"x30"	1	6.25	13.5	1	13.5
115+87.00 LT	R1-1				30"x30"	1	6.25	13.5	1	13.5
116+60.00 LT	R3-9B	24"x36"	1	6				15	1	15
	R3-9dP	30"x12"	1	2.5				-	-	-
	R3-9B	24"x36"	1	6				15	1	15
	R3-9cP	30"x12"	1	2.5				-	-	-
12+79 RT	R1-1				30"x30"	1	6.25	13.5	1	13.5
Subtotal	-	-	17	99	-	6	38	-	11	155



City of
Tucker

LOWE
ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

REVISION DATES

SUMMARY QUANTITIES

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

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

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ENGINEERS

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REVISION DATES			QUANTITIES (AMENDMENT)			
			MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN			
			AT HUGH HOWELL RD			
			CHECKED:		DATE:	DRAWING No. 07-0001
			BACKCHECKED:		DATE:	
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			VERIFIED:		DATE:	

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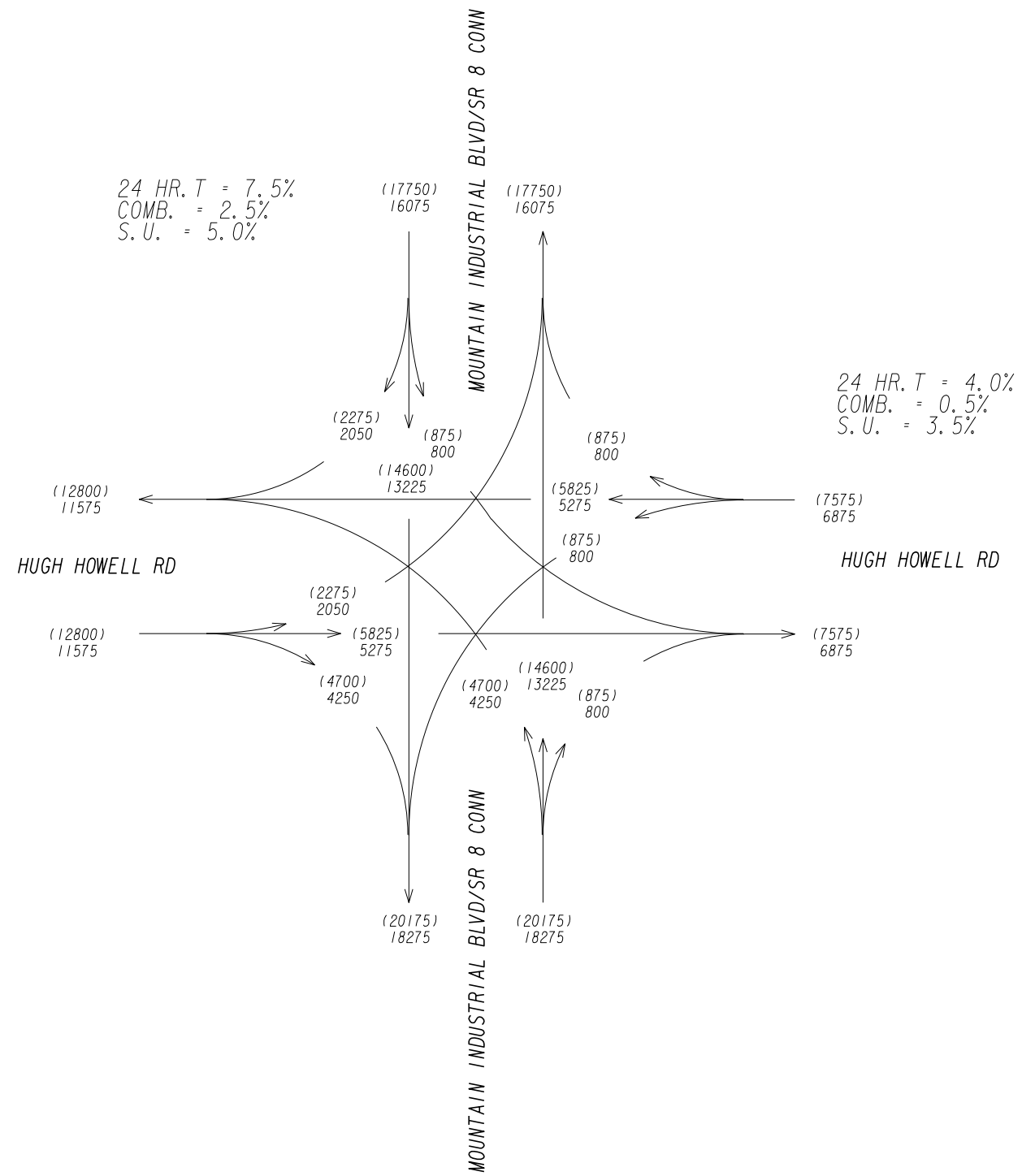
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REVISION DATES

QUANTITIES (CONSTRUCTION)

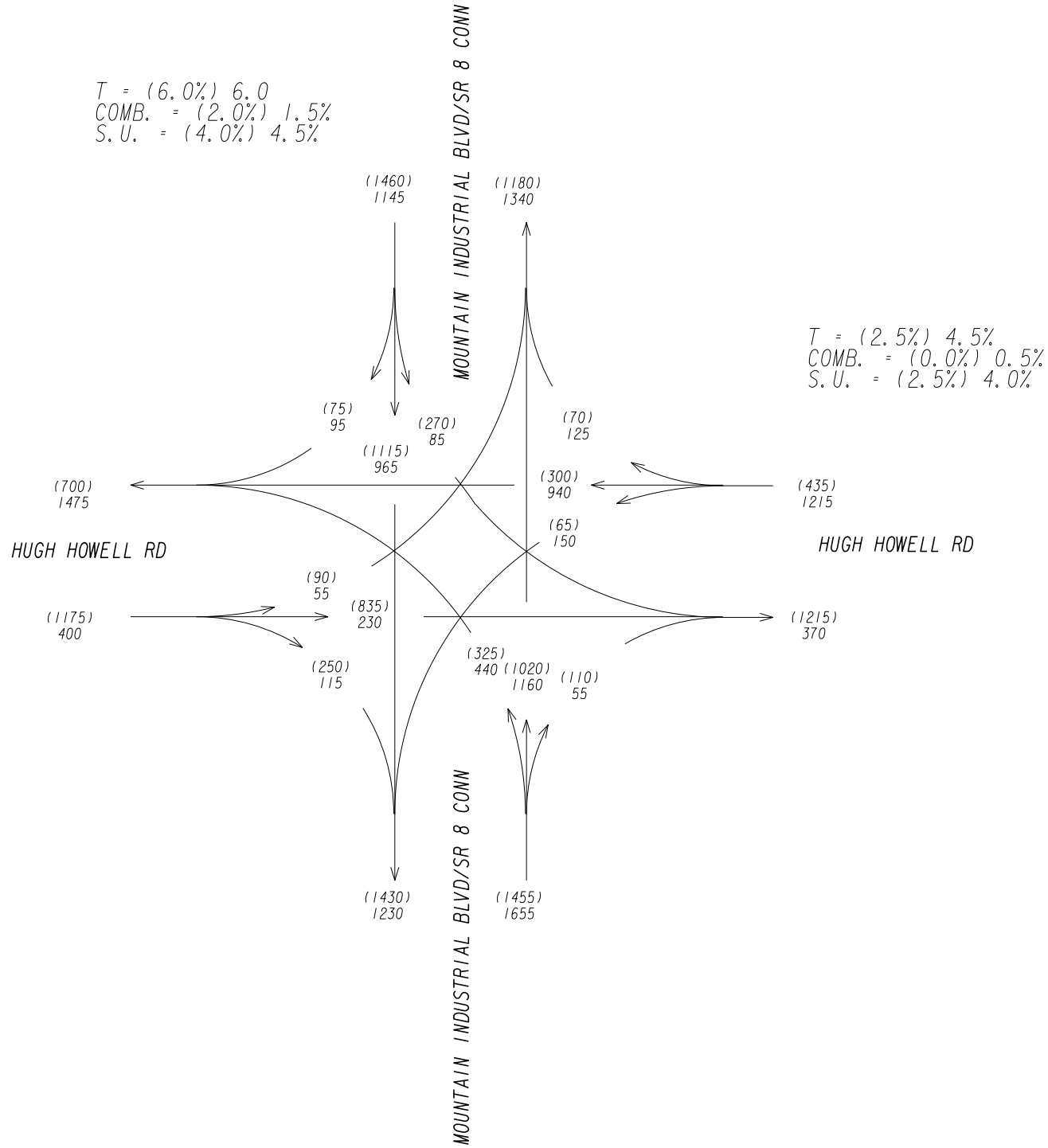
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

CHECKED:		DATE:		DRAWING No. 08-0001
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



PI # 0015216
DEKALB COUNTY

NO BUILD/BUILD AADT
2044 = (000)
2024 = 000



PI# 0015216
DEKALB COUNTY

NO BUILD/BUILD DHV
2044 DHV PM = (000)
2044 DHV AM = 000



City of
Tucker

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N. T. S.

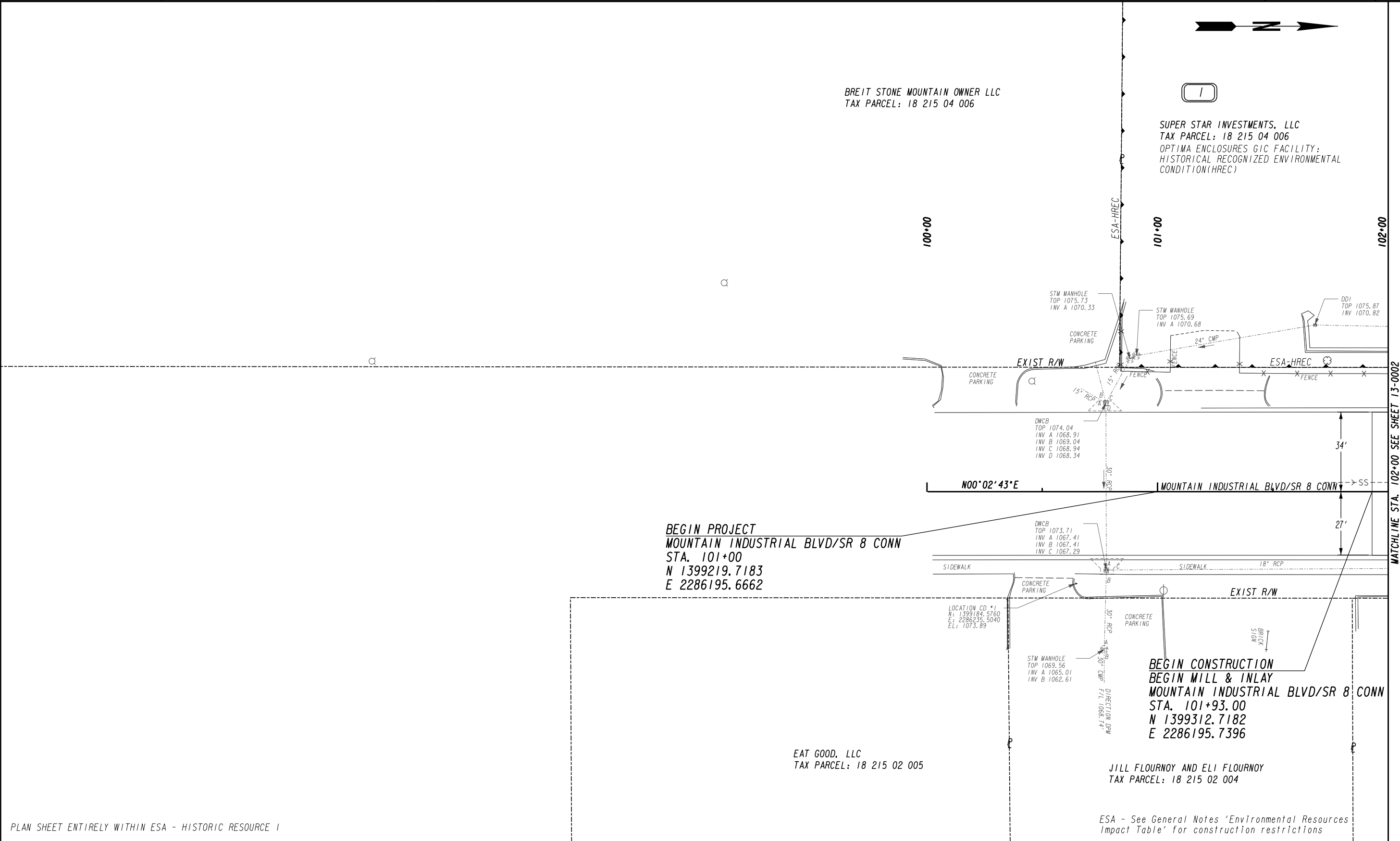
REVISION DATES

TRAFFIC DIAGRAM

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

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

10-0002



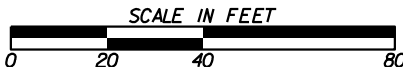
PLAN SHEET ENTIRELY WITHIN ESA - HISTORIC RESOURCE 1



City of
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ENGINEERS

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REVISION DATES

CONSTRUCTION PLAN

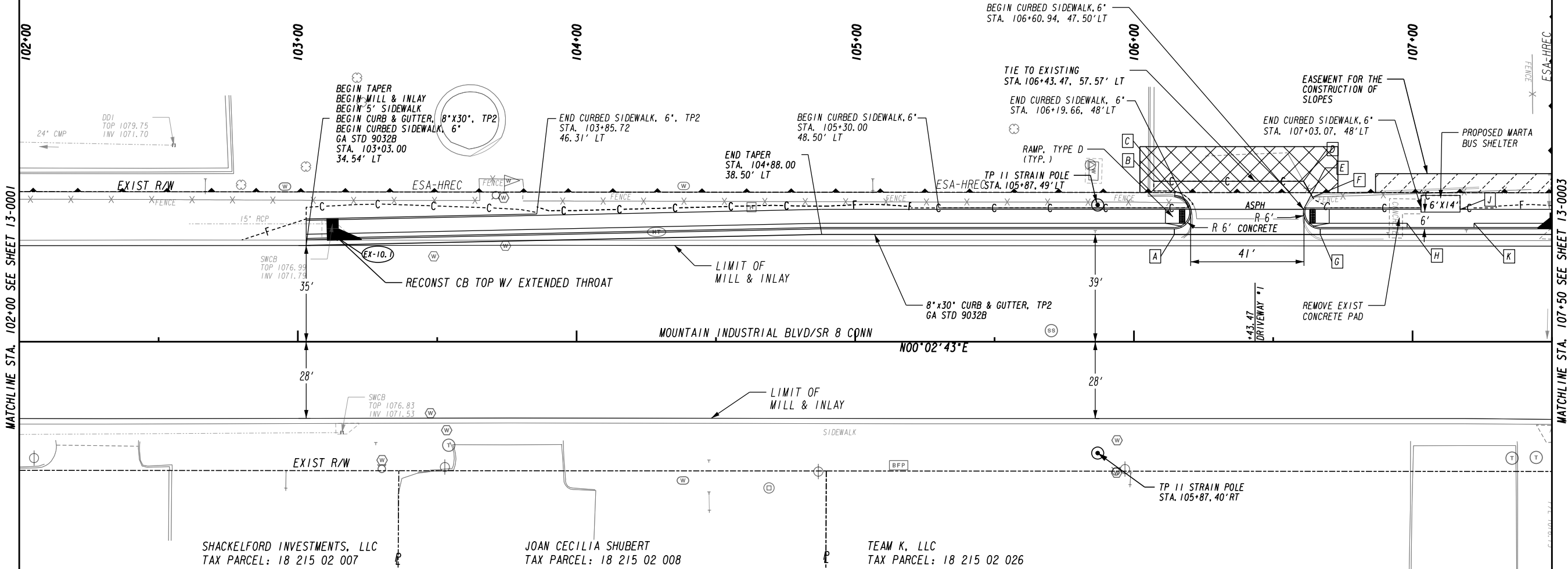
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

PLAN SHEET ENTIRELY WITHIN ESA - HISTORIC RESOURCE 1



1
SUPER STAR INVESTMENTS, LLC
TAX PARCEL: 18 215 04 001
OPTIMA ENCLOSURES GIC FACILITY:
HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION(HREC)



Point	Sta	Offset	Description
A	106+14.53	38.50' LT	BEGIN DRIVEWAY
B	106+07.15	57.57' LT	TIE TO EXISTING PVMT
C	106+14.69	53.99' LT	TIE TO EXISTING PVMT
D	106+60.87	57.57' LT	TIE TO EXISTING PVMT
E	106+61.29	48.18' LT	END CURB TIE TO EXISTING
F	106+64.09	51.89' LT	TIE TO EXISTING PVMT
G	106+66.85	38.50' LT	END DRIVEWAY
H	106+98.07	42.50' LT	BEGIN SIDEWALK BACK OF CURB
J	107+17.07	47.50' LT	BEGIN SIDEWALK
K	107+22.07	42.50' LT	END SIDEWALK BACK OF CURB

ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions



City of
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ENGINEERS

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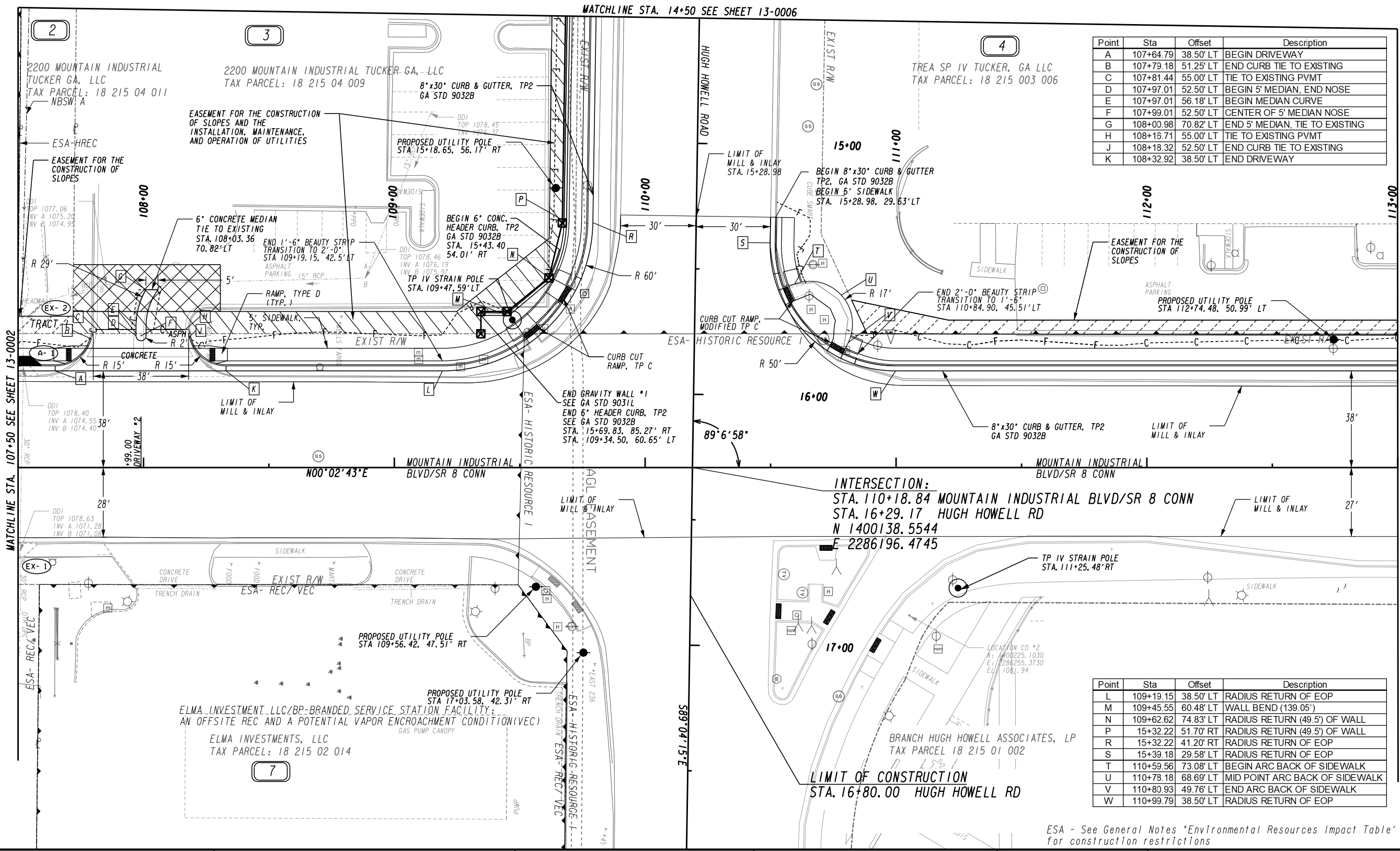
REVISION DATES

CONSTRUCTION PLAN

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

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

13-0002



Point	Sta	Offset	Description
A	107+64.79	38.50' LT	BEGIN DRIVEWAY
B	107+79.18	51.25' LT	END CURB TIE TO EXISTING
C	107+81.44	55.00' LT	TIE TO EXISTING PVMT
D	107+97.01	52.50' LT	BEGIN 5' MEDIAN, END NOSE
E	107+97.01	56.18' LT	BEGIN MEDIAN CURVE
F	107+99.01	52.50' LT	CENTER OF 5' MEDIAN NOSE
G	108+00.98	70.82' LT	END 5' MEDIAN, TIE TO EXISTING
H	108+16.71	55.00' LT	TIE TO EXISTING PVMT
J	108+18.32	52.50' LT	END CURB TIE TO EXISTING
K	108+32.92	38.50' LT	END DRIVEWAY

Point	Sta	Offset	Description
L	109+19.15	38.50' LT	RADIUS RETURN OF EOP
M	109+45.55	60.48' LT	WALL BEND (139.05')
N	109+62.62	74.83' LT	RADIUS RETURN (49.5') OF WALL
P	15+32.22	51.70' RT	RADIUS RETURN (49.5') OF WALL
R	15+32.22	41.20' RT	RADIUS RETURN OF EOP
S	15+39.18	29.58' LT	RADIUS RETURN OF EOP
T	110+59.56	73.08' LT	BEGIN ARC BACK OF SIDEWALK
U	110+78.18	68.69' LT	MID POINT ARC BACK OF SIDEWALK
V	110+80.93	49.76' LT	END ARC BACK OF SIDEWALK
W	110+99.79	38.50' LT	RADIUS RETURN OF EOP

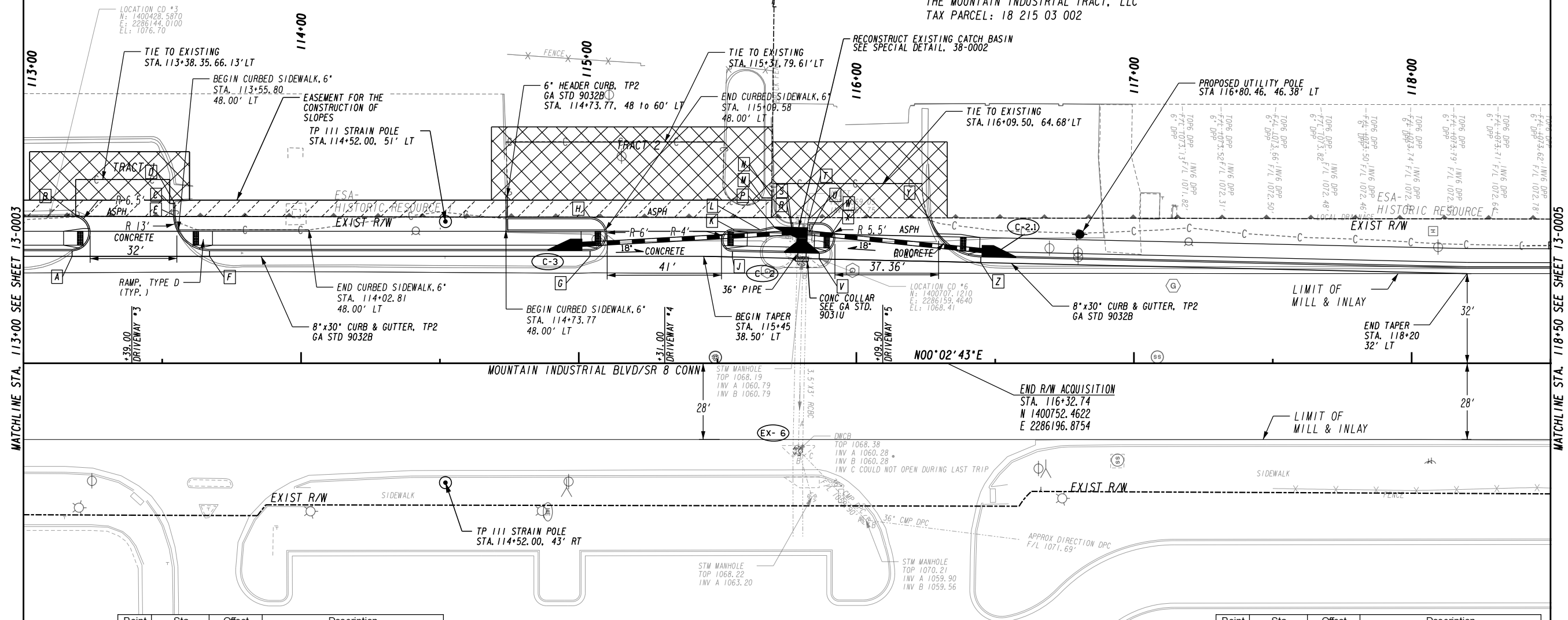
ESA - See General Notes "Environmental Resources Impact Table" for construction restrictions

ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions



4
TREA SP IV TUCKER, GA LLC
TAX PARCEL: 18 215 003 006

THE MOUNTAIN INDUSTRIAL TRACT, LLC
TAX PARCEL: 18 215 03 002



Point	Sta	Offset	Description
A	113+17.51	38.50' LT	BEGIN DRIVEWAY
B	113+18.80	53.37' LT	END CURB TIE TO EXISTING
C	113+52.68	57.50' LT	TIE TO EXISTING PVMT
D	113+54.47	57.50' LT	END CURB TIE TO EXISTING
E	113+54.02	53.34' LT	RADIUS RETURN OF CURB
F	113+67.03	38.50' LT	END DRIVEWAY
G	115+04.10	38.50' LT	BEGIN DRIVEWAY
H	115+04.10	52.50' LT	RADIUS RETURN OF CURB
J	115+55.34	38.27' LT	END DRIVEWAY
K	115+55.57	48.26' LT	RADIUS RETURN OF CURB
L	115+65.32	48.04' LT	CURB BEND POINT

Point	Sta	Offset	Description
M	115+66.07	59.50' LT	TIE TO EXISTING PVMT
N	115+69.79	59.50' LT	TIE TO EXISTING PVMT
P	115+70.35	49.20' LT	END CURB AT CATCH BASIN
R	115+76.65	49.06' LT	BEGIN HEADER CURB
S	115+76.68	50.56' LT	END HEADER CURB TIE TO EXISTING
T	115+82.55	50.65' LT	END CURB
U	115+83.14	47.14' LT	BEGIN CURB
V	115+86.59	37.56' LT	BEGIN DRIVEWAY
W	115+86.88	50.55' LT	RADIUS RETURN OF CURB
X	115+91.38	46.95' LT	END SIDEWALK BACK OF CURB
Y	116+26.56	51.19' LT	END CURB TIE TO EXISTING
Z	116+44.79	36.24' LT	END DRIVEWAY

BRANCH HUGH HOWELL ASSOCIATES, LP
TAX PARCEL 18 215 01 002



LOWE
ENGINEERS

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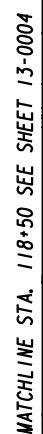
SCALE IN FEET

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REVISION DATES

CONSTRUCTION PLAN
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

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



REVISION DATES			CONSTRUCTION PLAN MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN AT HUGH HOWELL RD			
			CHECKED:		DATE:	DRAWING No.
			BACKCHECKED:		DATE:	13-0005
			CORRECTED:		DATE:	
			VERIFIED:		DATE:	

Point	Sta	Offset	Description
A	11+36.72	41.20' RT	RADIUS RETURN OF EOP
B	12+37.86	41.20' RT	BEGIN DRIVEWAY
C	12+47.83	52.51' RT	END CURB TIE TO EXISTING
D	12+47.83	54.95' RT	ASPHALT PVMT POINT
E	12+47.53	57.41' RT	ASPHALT PVMT POINT
F	12+42.25	78.23' RT	ASPHALT PVMT POINT
G	12+41.95	80.69' RT	ASPHALT PVMT POINT
H	12+73.47	53.60' RT	END CURB TIE TO EXISTING
J	12+83.46	41.20' RT	END DRIVEWAY
K	12+83.65	77.20' RT	ASPHALT PVMT POINT

LIMIT OF CONSTRUCTION
HUGH HOWELL RD
STA. 9+51.66

ESA- HISTORIC RESOURCE /

J & J'S TUCKER TREATS INC.
TAX PARCEL: 18 215 04 008

BEGIN 5' SIDEWALK
BEGIN CURB & GUTTER
8"X30", TP 2
GA STD 9032B
STA. 11+28.30
43.50' RT

HUTTON TUCKER GA ST, LLC
TAX PARCEL: 18 215 04 014

EASEMENT FOR THE CONSTRUCTION OF SLOPES

END DITCH
STA. 12+29.63.
67.68' RT

TIE TO EXISTING
STA. 12+60.58, 91.03' R

2200 MOUNTAIN INDUSTRIAL TUCKER GA, LLC
TAX PARCEL: 18 215 04 011

2200 MOUNTAIN
INDUSTRIAL
TUCKER GA, LLC
TAX PARCEL:18 215 04
009

ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions

EXIST R/W

EASEMENT FOR THE CONSTRUCTION
OF SLOPES AND THE INSTALLATION,
MAINTENANCE, AND OPERATION OF UTILITIES

EASEMENT FOR THE CONSTRUCTION
OF SLOPES AND THE INSTALLATION,
MAINTENANCE, AND OPERATION OF UTILITIES

S 89°04'15.0" E

HUGH HOWELL ROAD

S89°04'15"E

— RAMP,
(TYP.)

— STA. 12+90.00,
51.70' RT
160' BEND
BEGIN GRAVITY WALL
STA. 12+82.30, 54.
SEE GA STD 9031L

PROPOSED UTILITY POLE
STA 14+07.76, 56.47' RT

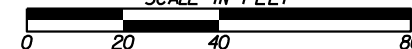
— EASEMENT FOR THE
CONSTRUCTION OF
SLOPES

City of
Tucker

LOWE
ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

SCALE IN FEET

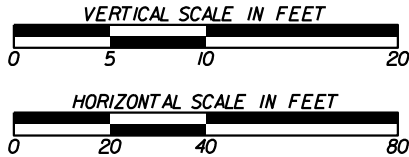
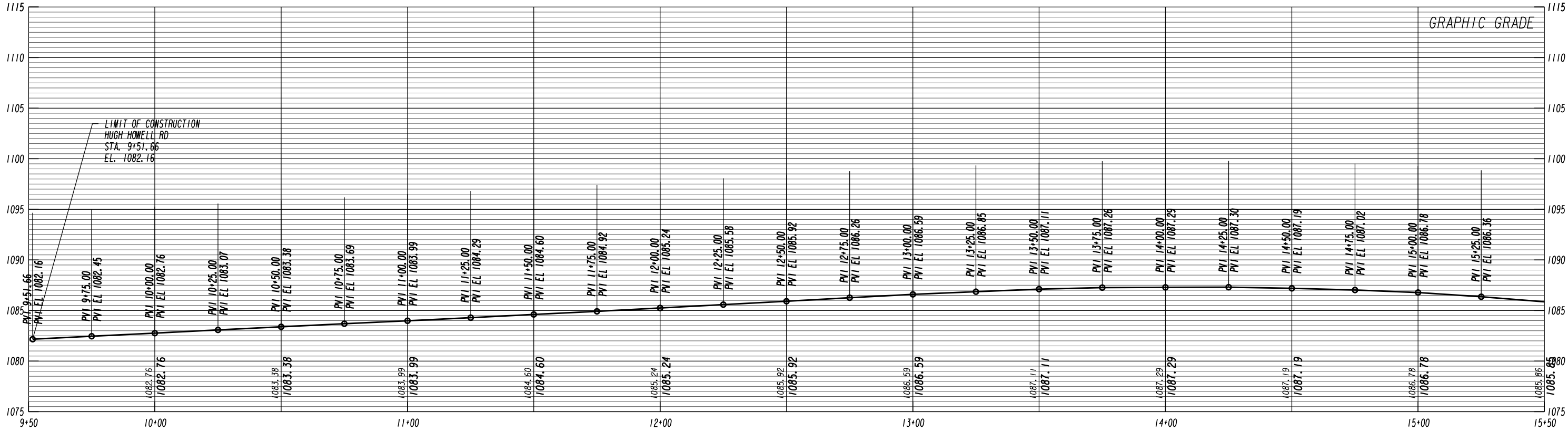
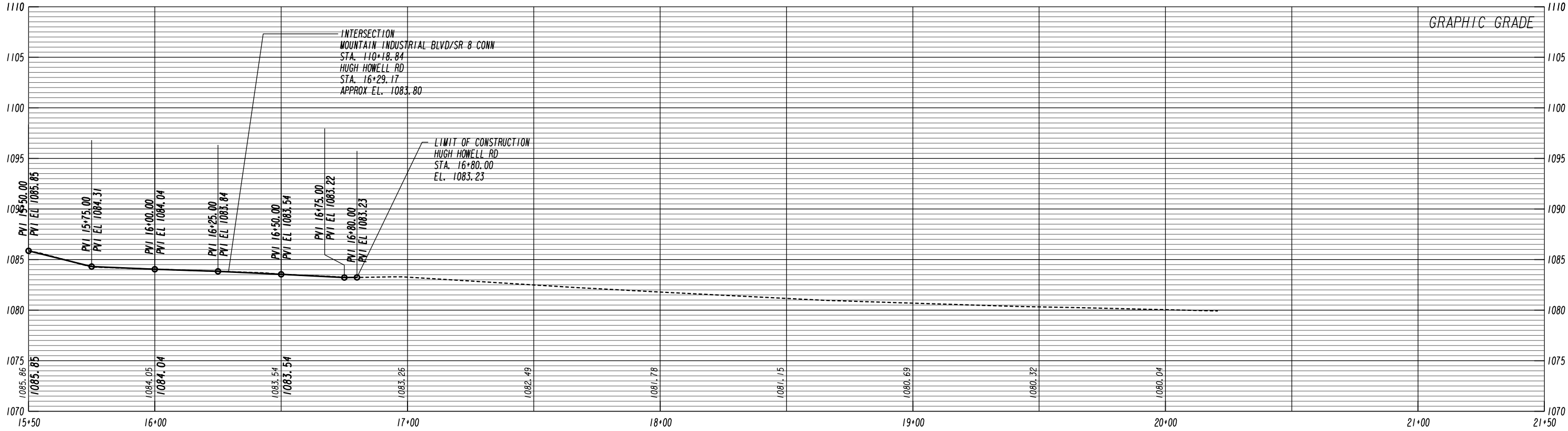


REVISION DATES

CONSTRUCTION PLAN

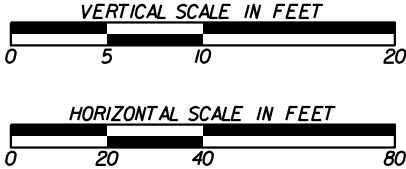
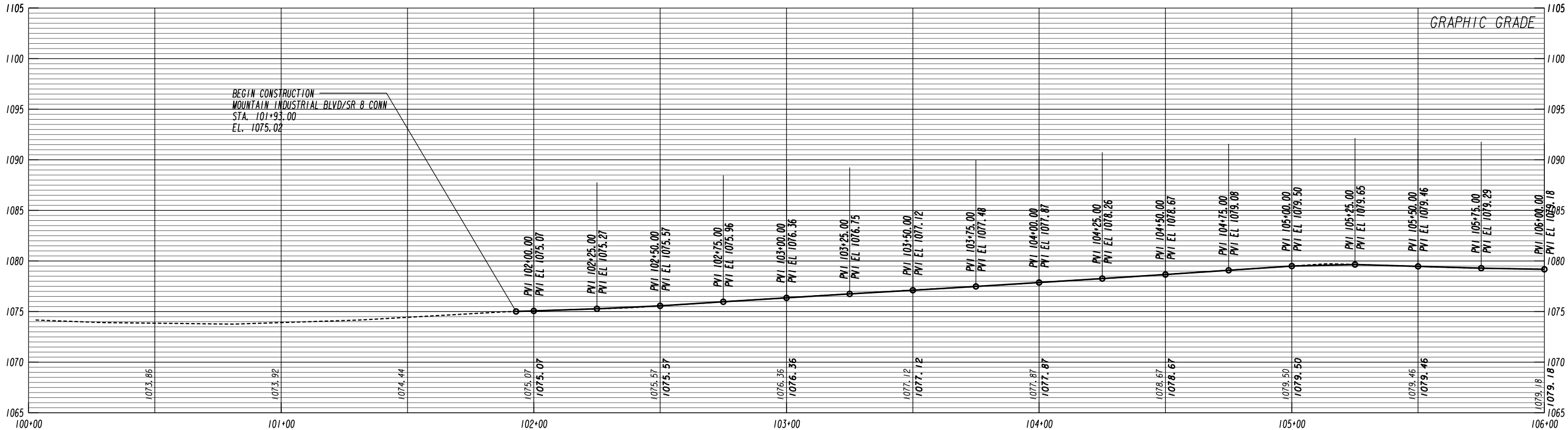
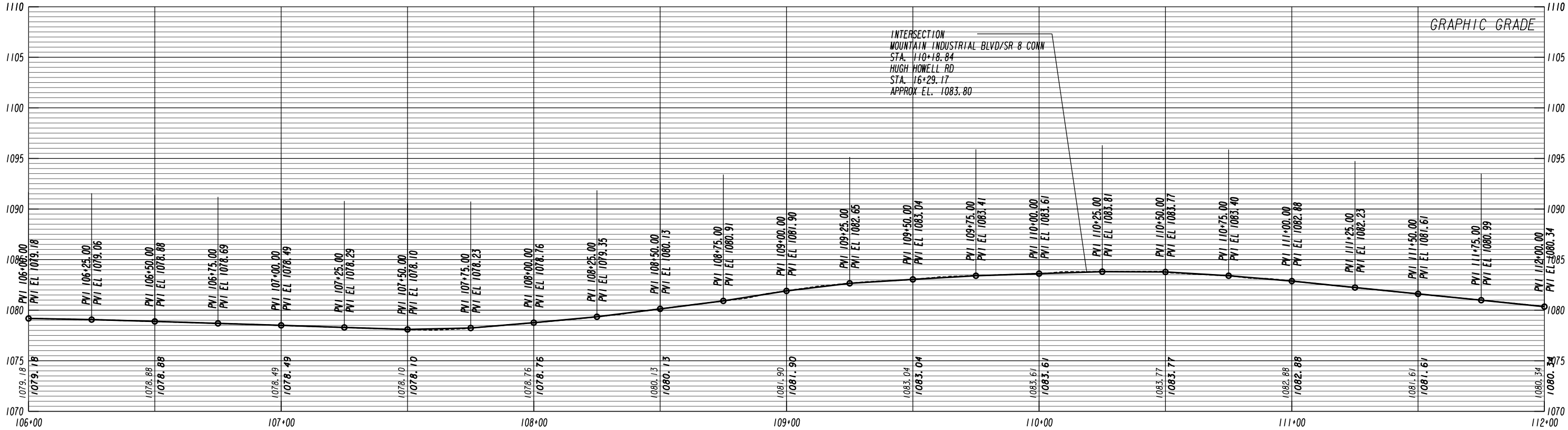
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
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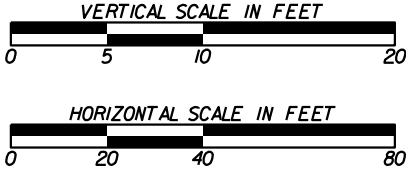
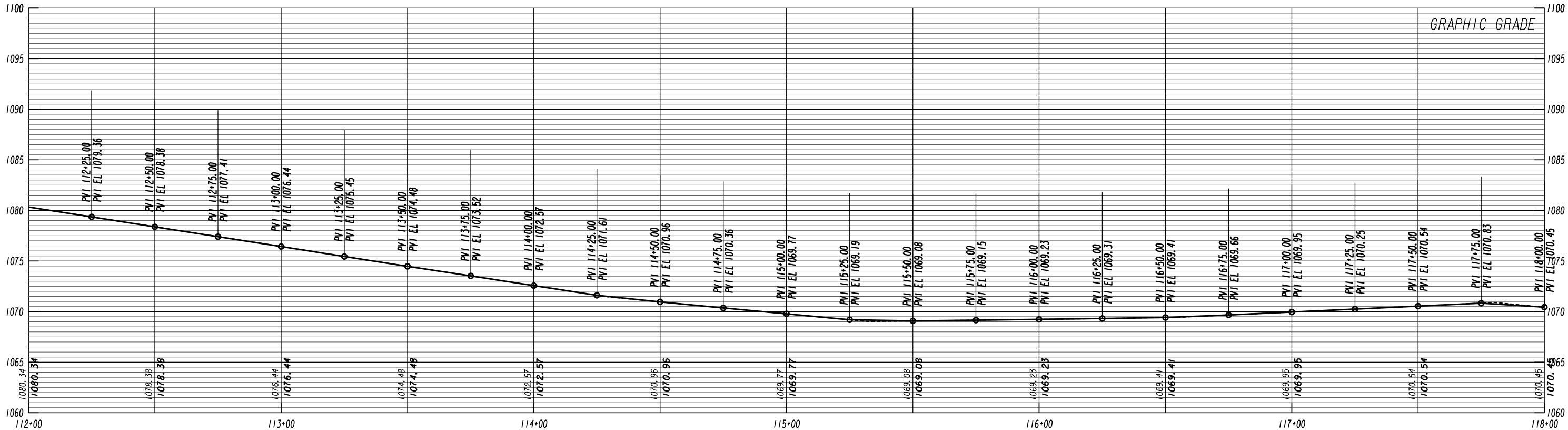
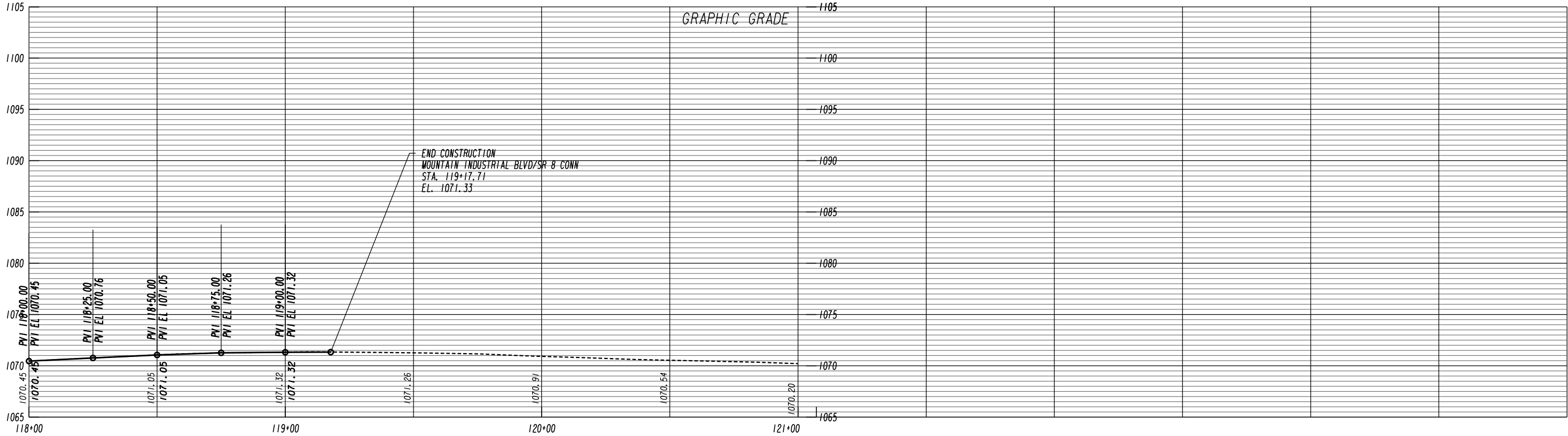


REVISION DATES

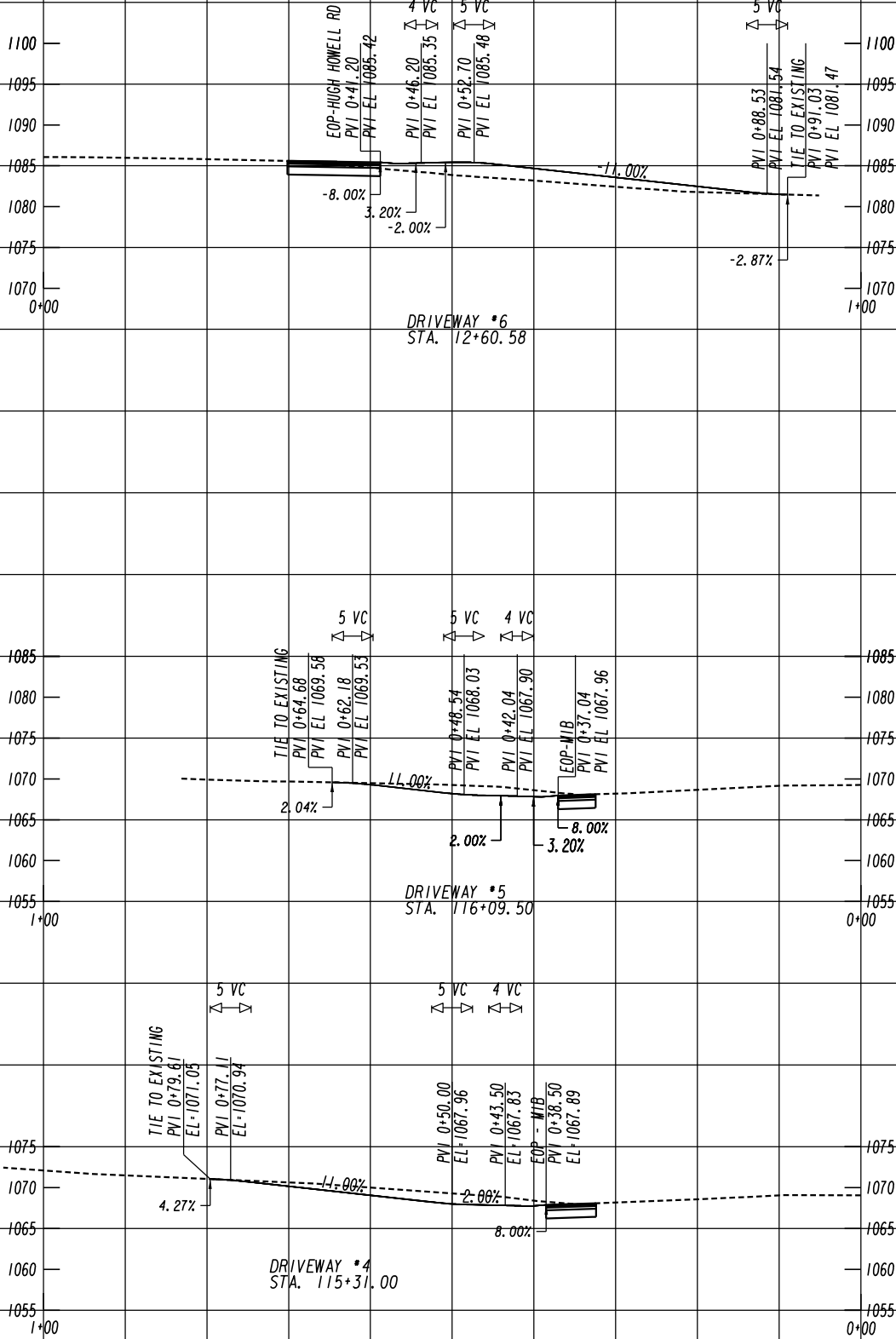
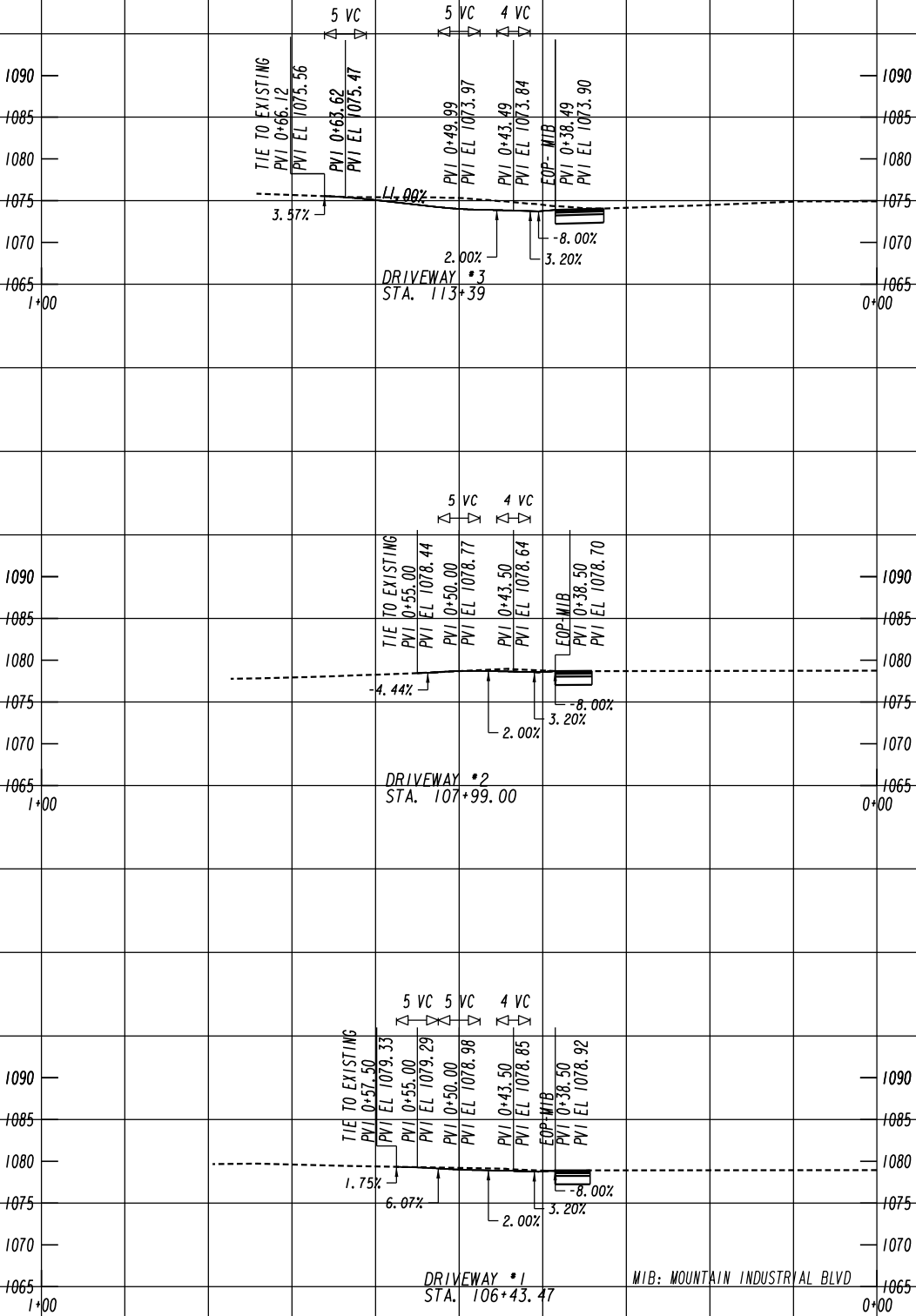
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DRAWING No.			15-0001



REVISION DATES			MAINLINE PROFILE			
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CORRECTED:		DATE:				
VERIFIED:		DATE:				

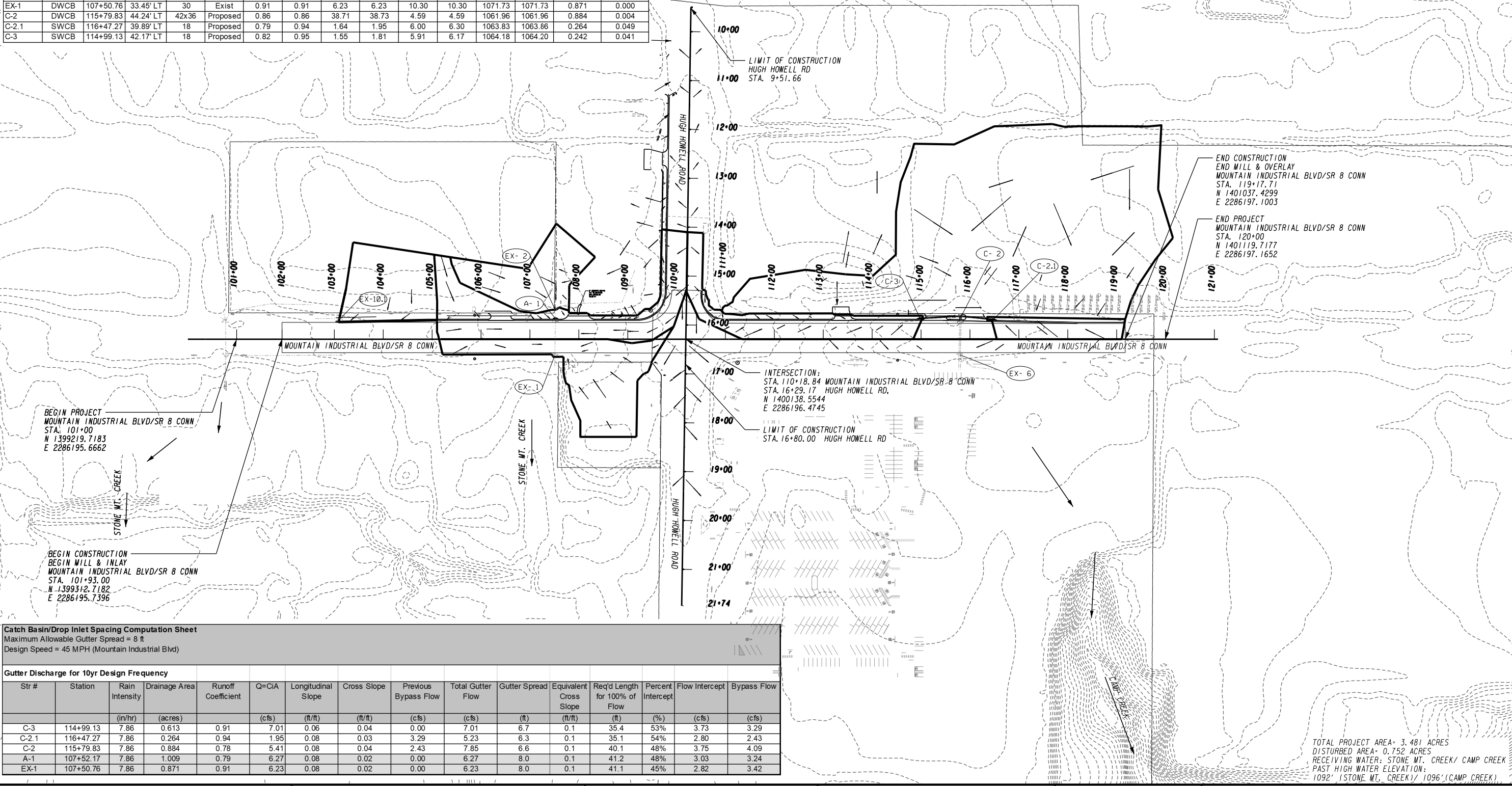


REVISION DATES			MAINLINE PROFILE			
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CORRECTED:		DATE:				
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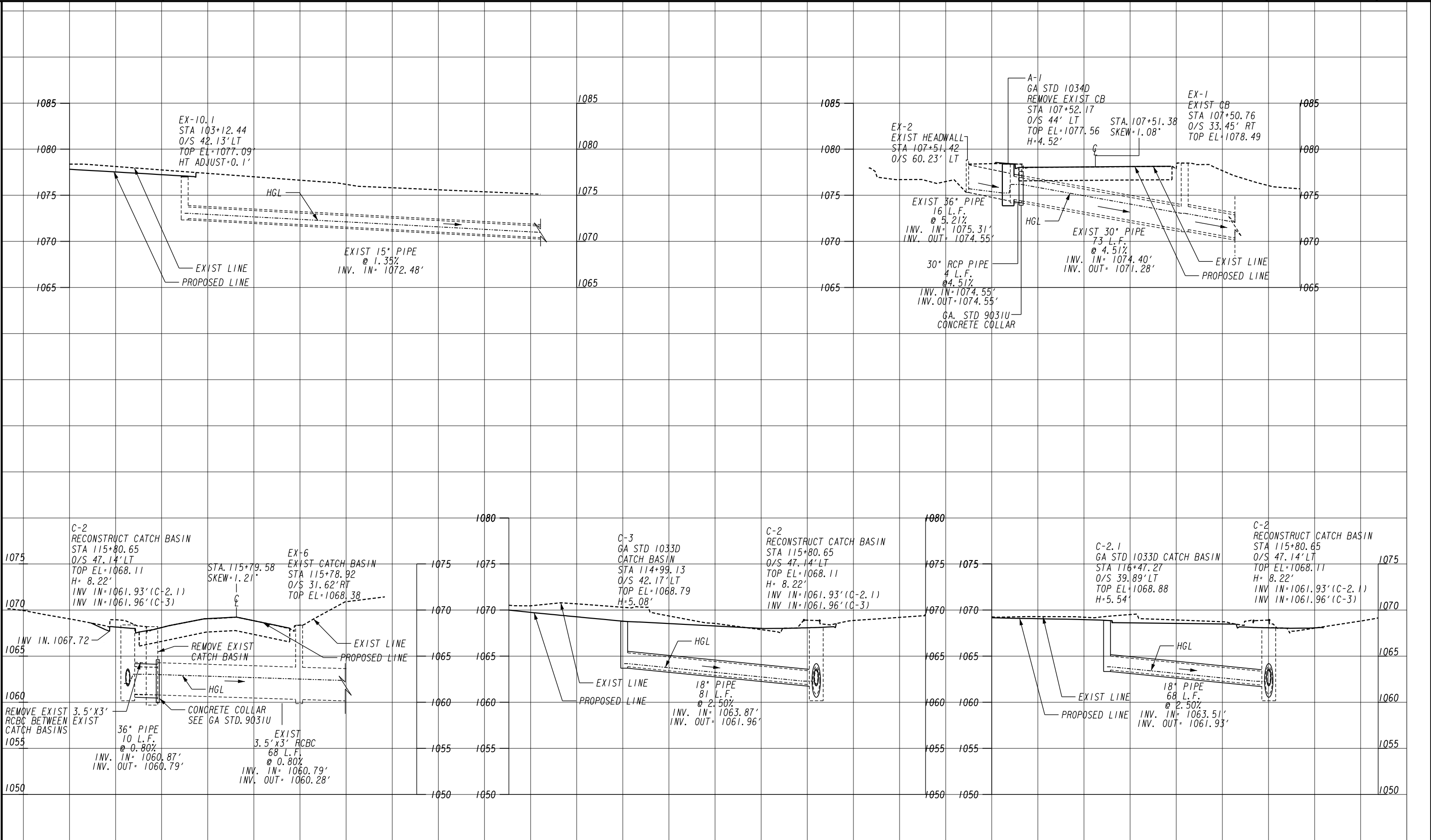


REVISION DATES			DRIVEWAY PROFILE		
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			AT HUGH HOWELL RD		
CHECKED:		DATE:		DRAWING No.	
BACKCHECKED:		DATE:		17-0001	
CORRECTED:		DATE:			
VERIFIED:		DATE:			

Pipe Chart															
Upstream Structure I.D.	Upstream Structure Type	Station	Offset	Pipe Size	Exist/ Proposed	Pre- Constr "C"	Post- Constr "C"	Pre- Constr Discharge 10-yr	Post- Constr Discharge 10-yr	Pre- Constr Velocity 10-yr	Post- Constr Velocity 10-yr	Pre- Constr HW Elev	Post- Constr HW Elev	Contributing Drainage Area	Basin Disturbed Area
			ft	in				cfs	cfs	fps	fps	ft	ft	ac	ac
EX-10.1	SWCB	103+12.44	42.13' LT	15	Exist	0.45	0.50	2.81	3.08	5.69	5.82	1073.01	1073.04	0.786	0.043
EX-2	HW	107+51.42	60.23' LT	36	Exist	0.76	0.76	3.45	3.45	6.14	6.14	1075.71	1075.71	0.581	0.000
A-1	DWCB	107+52.17	44.00' LT	30(EXIST)	Proposed	0.65	0.79	5.16	6.27	9.75	10.30	1074.96	1075.76	1.009	0.177
EX-1	DWCB	107+50.76	33.45' LT	30	Exist	0.91	0.91	6.23	6.23	10.30	10.30	1071.73	1071.73	0.871	0.000
C-2	DWCB	115+79.83	44.24' LT	42x36	Proposed	0.86	0.86	38.71	38.73	4.59	4.59	1061.96	1061.96	0.884	0.004
C-2.1	SWCB	116+47.27	39.89' LT	18	Proposed	0.79	0.94	1.64	1.95	6.00	6.30	1063.83	1063.86	0.264	0.049
C-3	SWCB	114+99.13	42.17' LT	18	Proposed	0.82	0.95	1.55	1.81	5.91	6.17	1064.18	1064.20	0.242	0.041



Catch Basin/Drop Inlet Spacing Computation Sheet															
Maximum Allowable Gutter Spread = 8 ft															
Design Speed = 45 MPH (Mountain Industrial Blvd)															
Gutter Discharge for 10yr Design Frequency															
Str #	Station	Rain Intensity	Drainage Area	Runoff Coefficient	Q=CIA	Longitudinal Slope	Cross Slope	Previous Bypass Flow	Total Gutter Flow	Gutter Spread	Equivalent Cross Slope	Req'd Length for 100% of Flow	Percent Intercept	Flow Intercept	Bypass Flow
		(in/hr)	(acres)		(cfs)	(ft/ft)	(ft/ft)	(cfs)	(cfs)	(ft)	(ft/ft)	(ft)	(%)	(cfs)	(cfs)
C-3	114+99.13	7.86	0.613	0.91	7.01	0.06	0.04	0.00	7.01	6.7	0.1	35.4	53%	3.73	3.29
C-2.1	116+47.27	7.86	0.264	0.94	1.95	0.08	0.03	3.29	5.23	6.3	0.1	35.1	54%	2.80	2.43
C-2	115+79.83	7.86	0.884	0.78	5.41	0.08	0.04	2.43	7.85	6.6	0.1	40.1	48%	3.75	4.09
A-1	107+52.17	7.86	1.009	0.79	6.27	0.08	0.02	0.00	6.27	8.0	0.1	41.2	48%	3.03	3.24
EX-1	107+50.76	7.86	0.871	0.91	6.23	0.08	0.02	0.00	6.23	8.0	0.1	41.1	45%	2.82	3.42



10/23/2015
GPLN

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ENGINEERS

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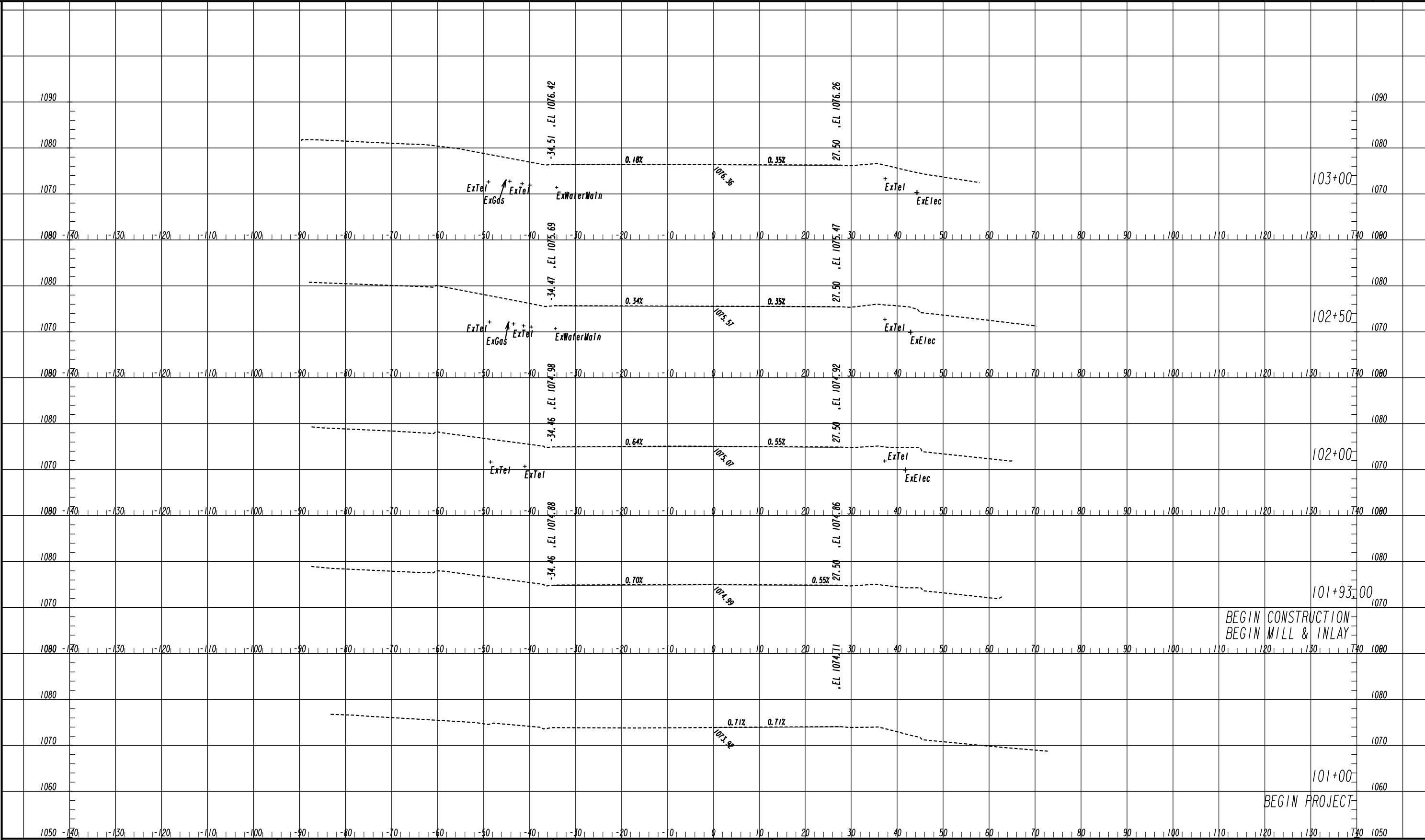
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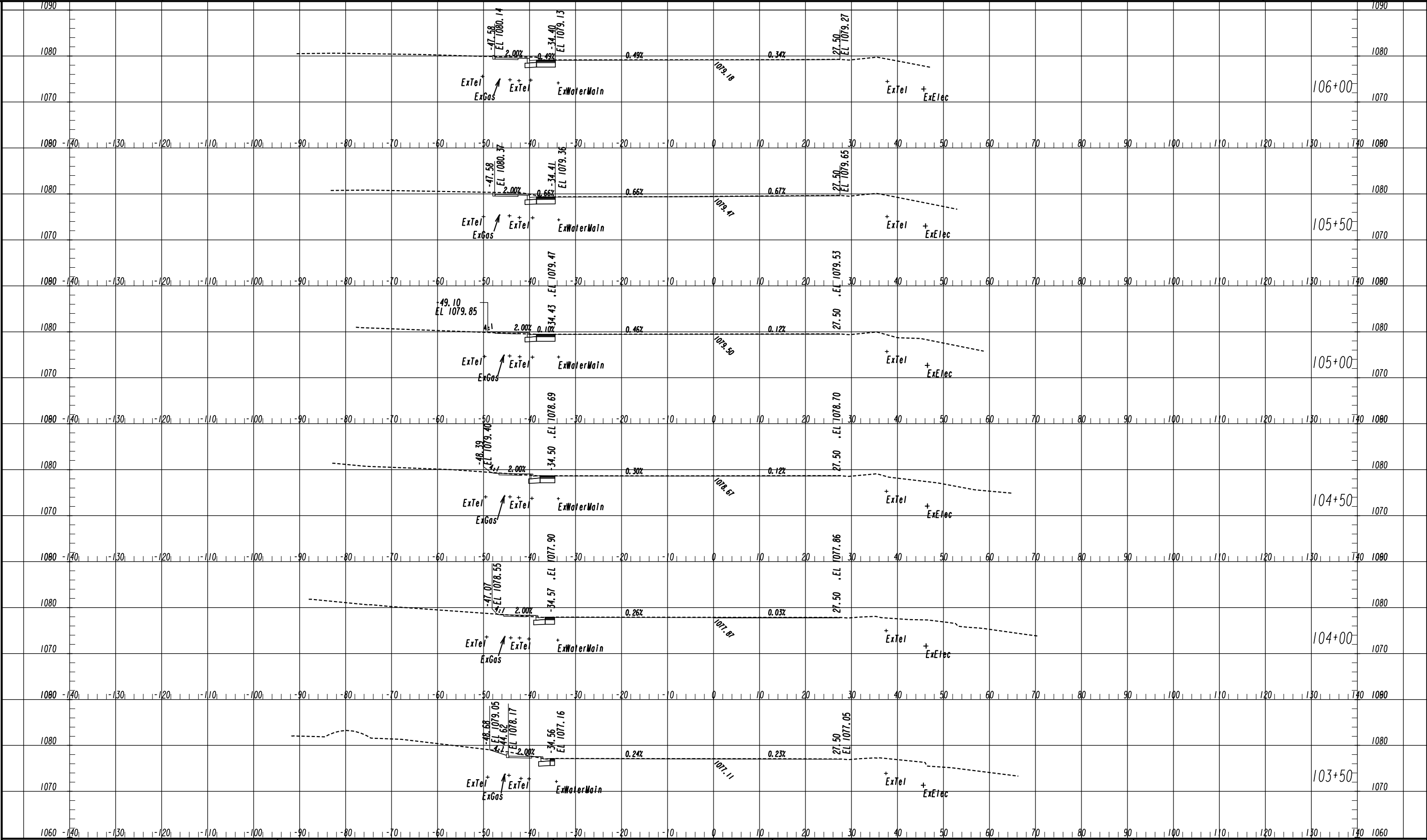
HORIZONTAL SCALE IN FEET
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REVISION DATES	

DRAINAGE PROFILES
MOUNTAIN INDUSTRIAL BLVD
AT HUGH HOWELL RD

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





**City of
Tucker**

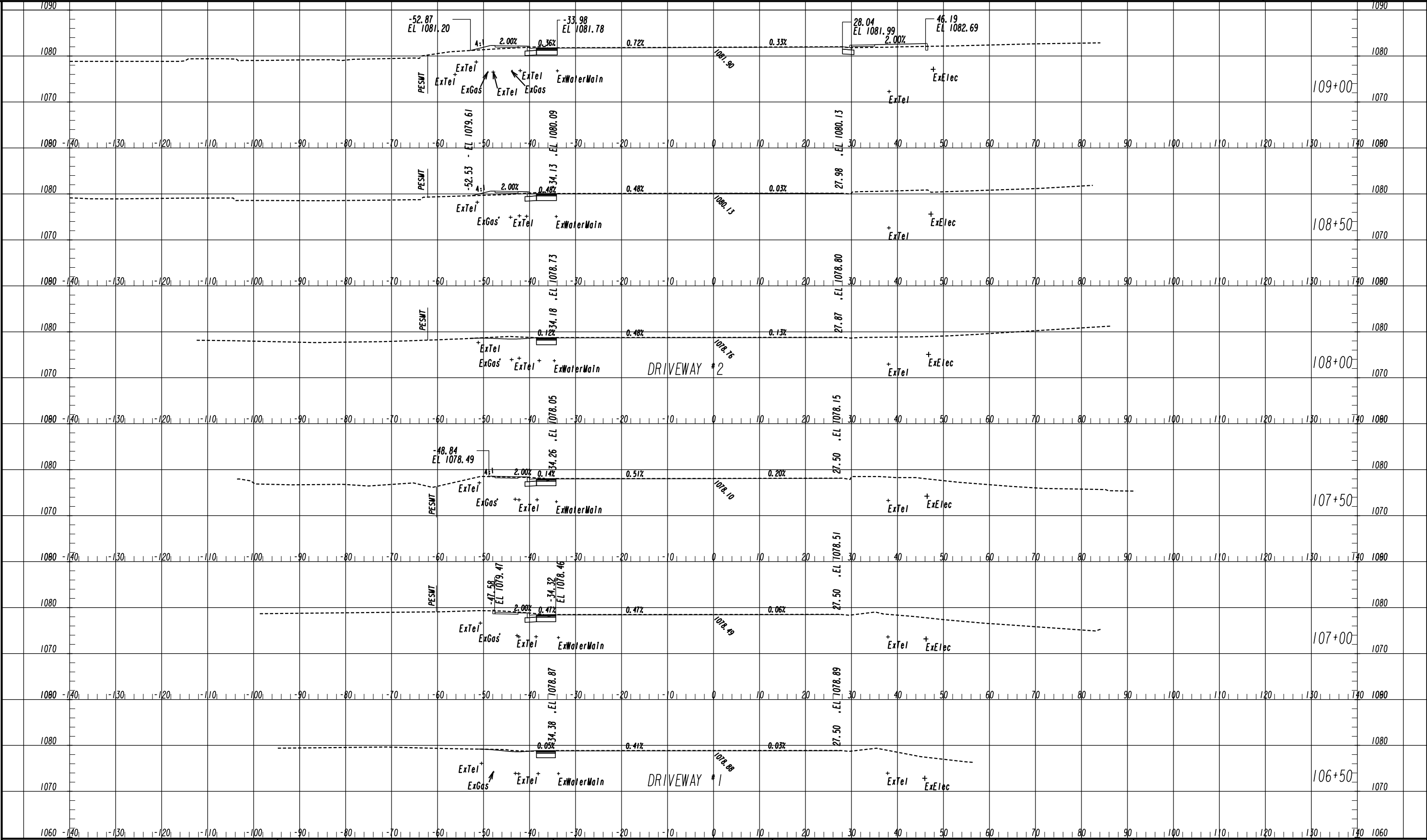
LOWE
ENGINEERS
990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

SCALE IN FEET
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REVISION DATES	

CROSS SECTIONS	
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN	
CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING No.
23- 0002



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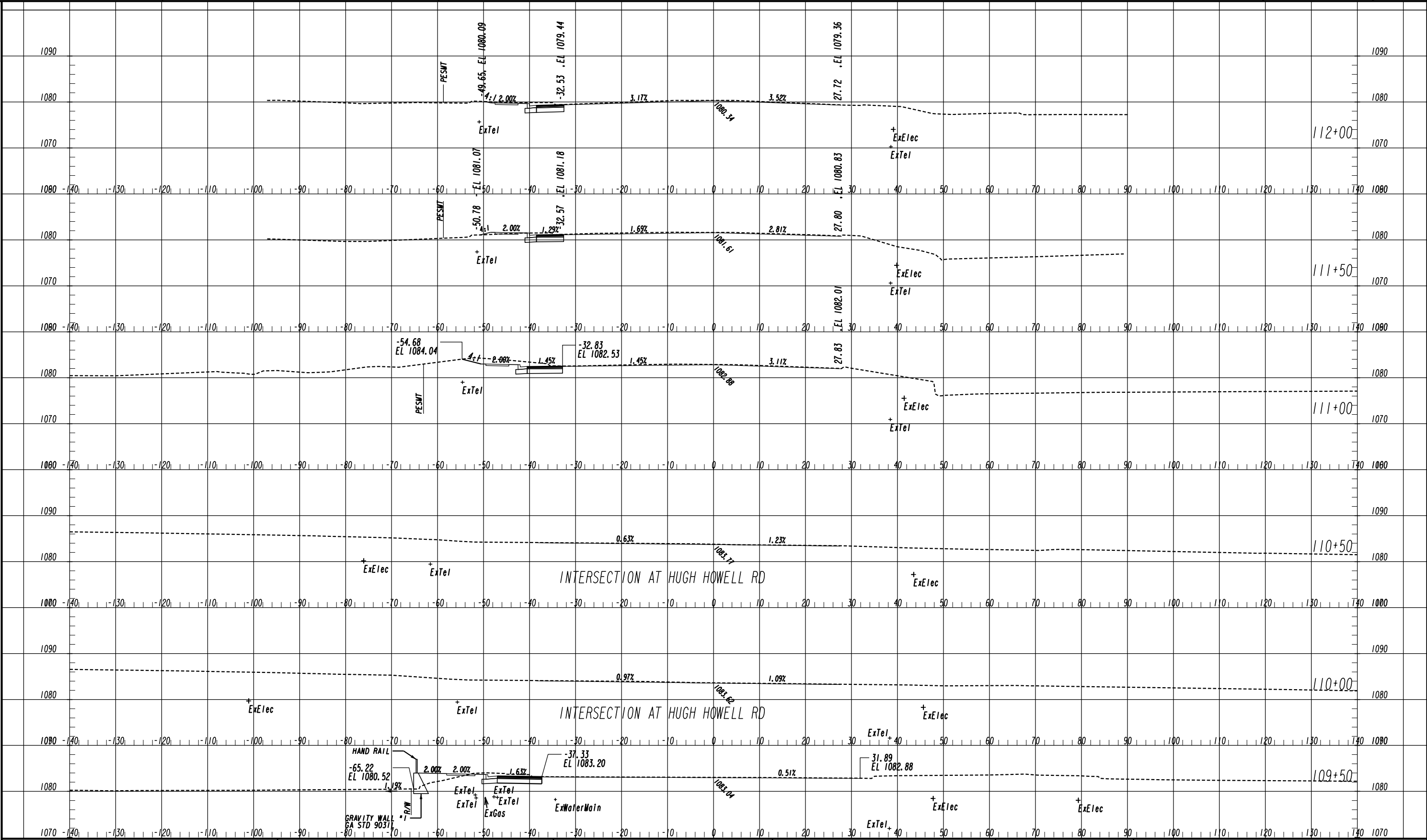
REVISION DATES

CROSS SECTIONS

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN

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

23- 0003



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SCALE IN FEET

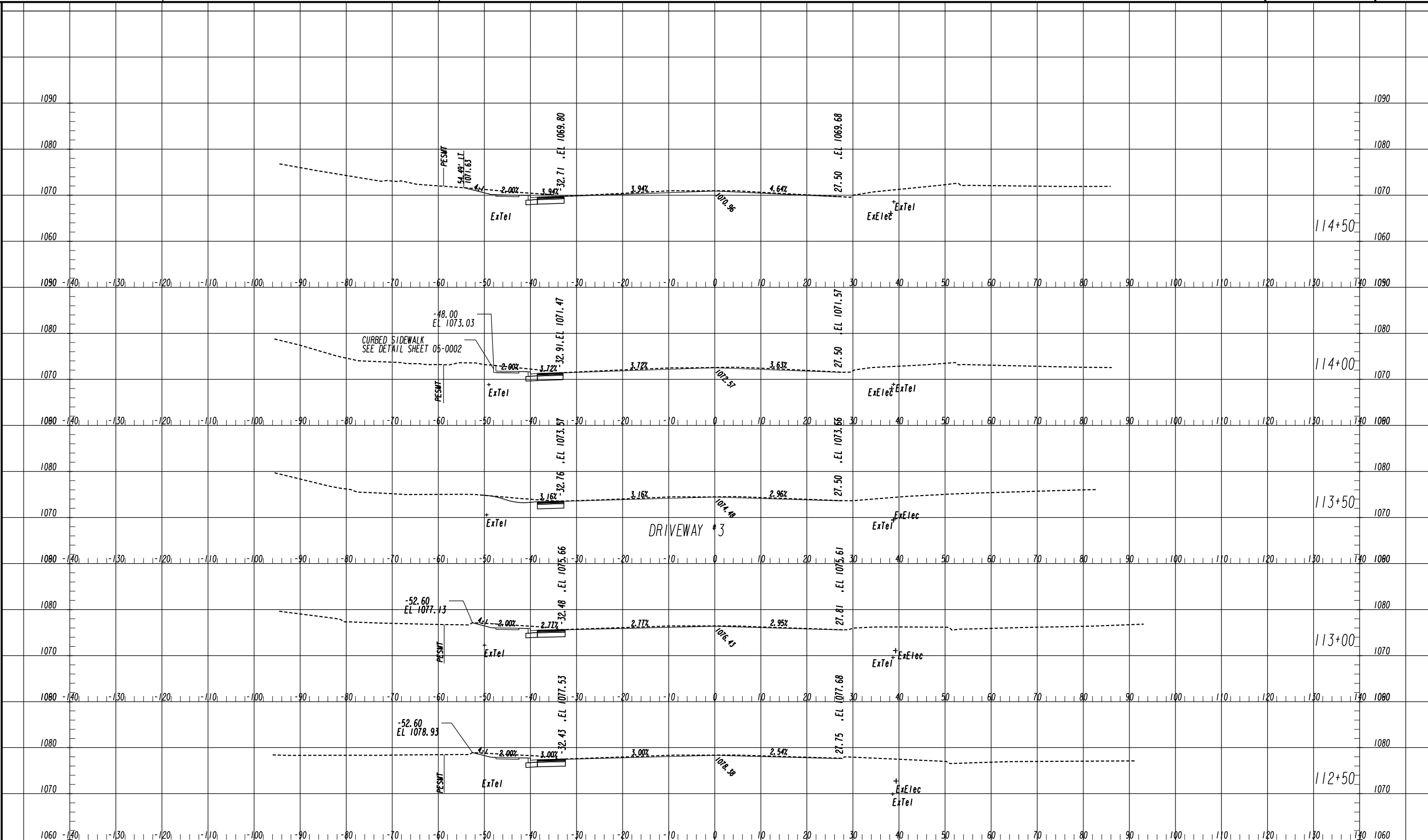
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REVISION DATES

CROSS SECTIONS

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN

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





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SCALE IN FEET

0

10

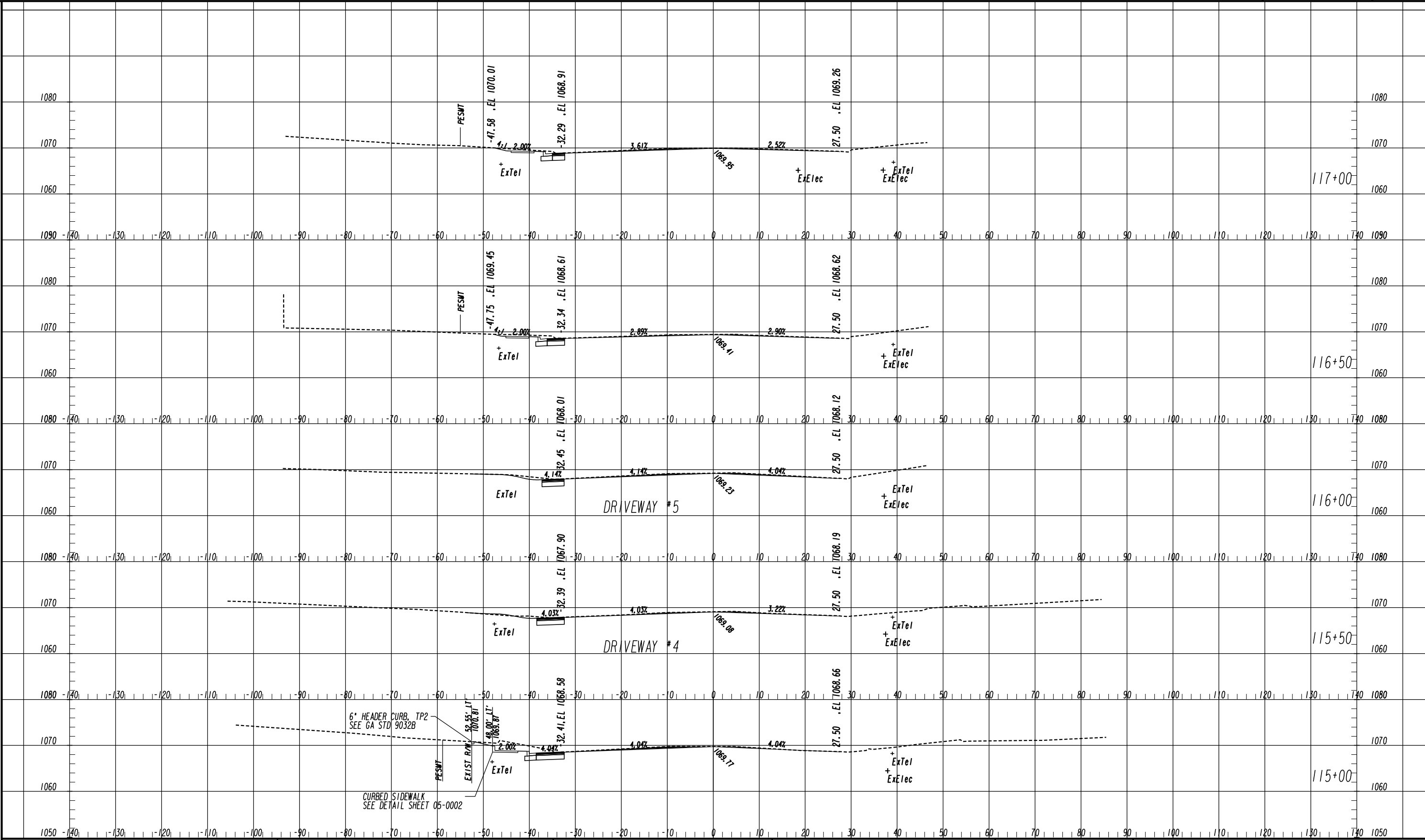
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REVISION DATES

CROSS SECTIONS
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN

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



11/8/2018
SUXSEW



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SCALE IN FEET

0

10

20

40

REVISION DATES

CHECKED:

BACKCHECKED:

CORRECTED:

VERIFIED:

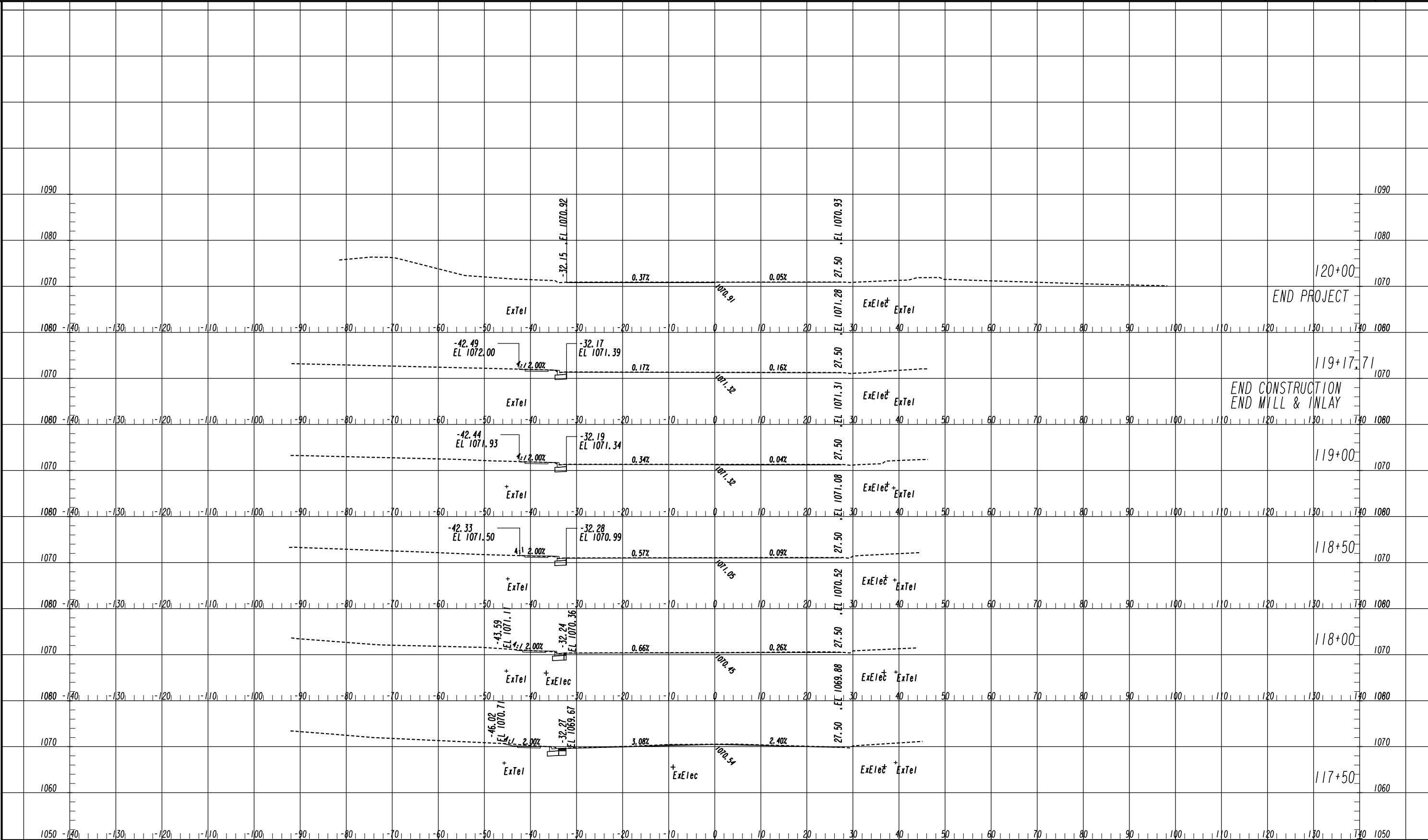
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DRAWING No.
23- 0006



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SCALE IN FEET

0

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REVISION DATES

CROSS SECTIONS

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN

CHECKED:

BACKCHECKED:

CORRECTED:

VERIFIED:

DATE:

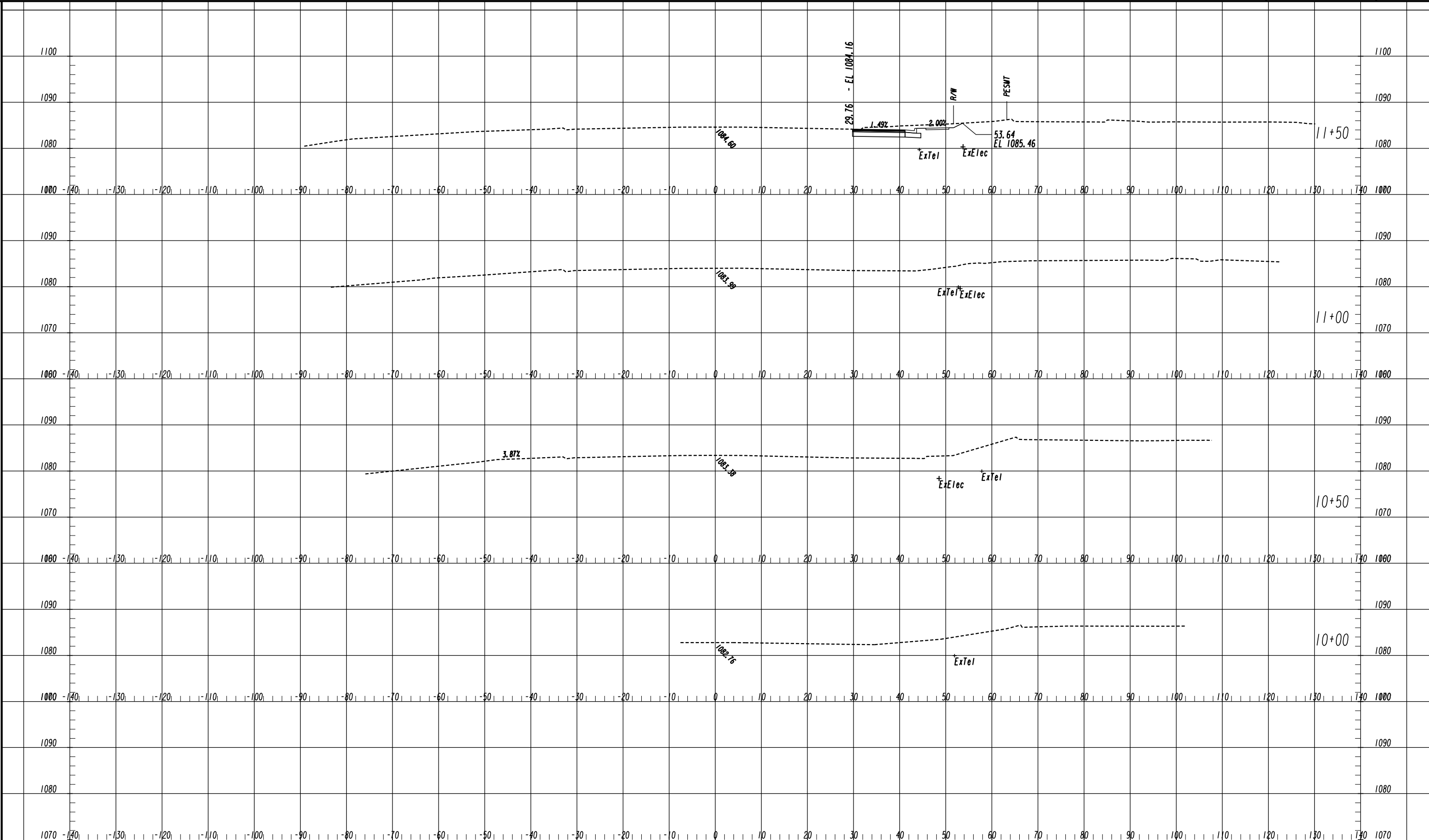
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DRAWING No.

23- 0007



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SCALE IN FEET

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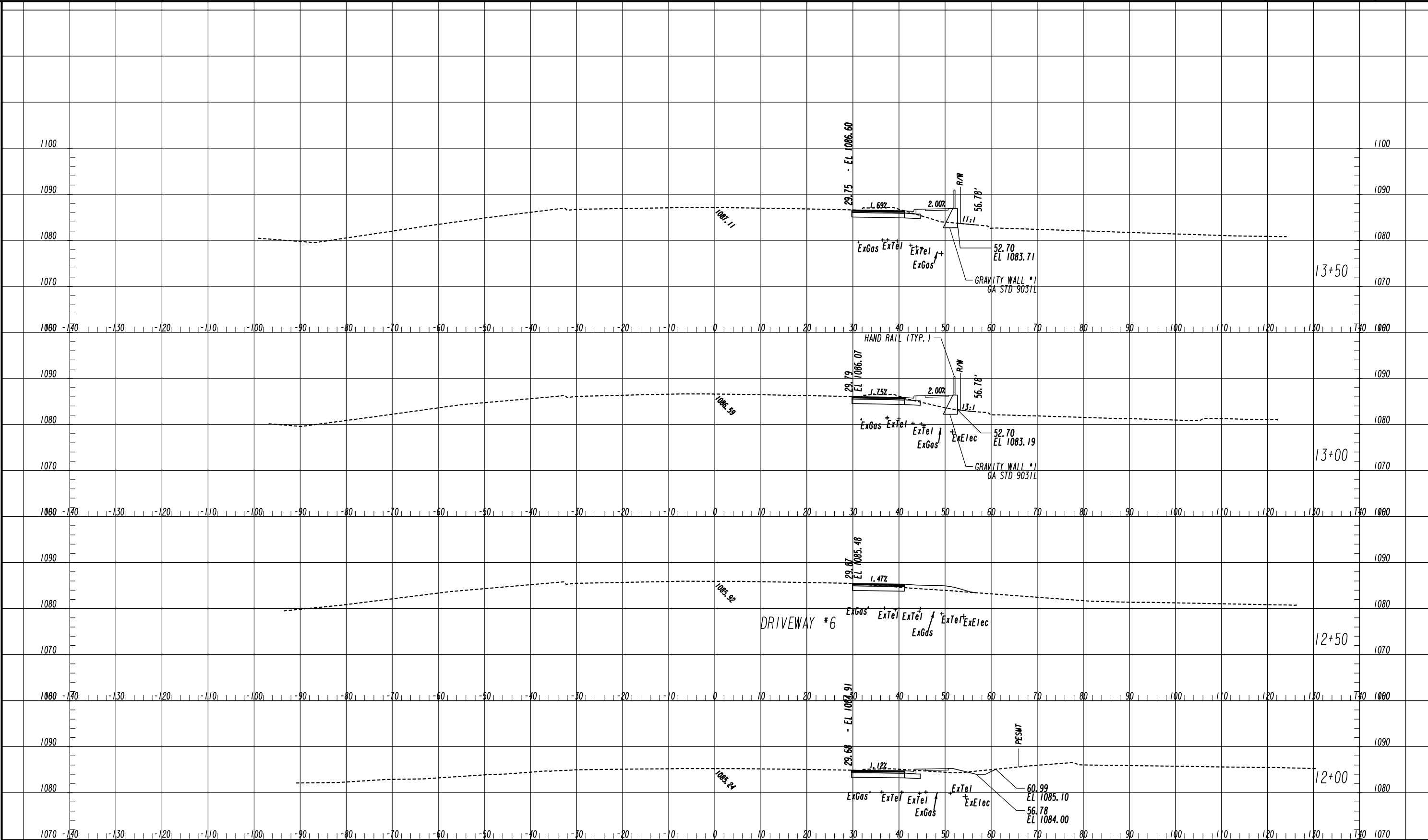
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REVISION DATES

CROSS SECTIONS
HUGH HOWELL RD

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

23- 0008





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SCALE IN FEET

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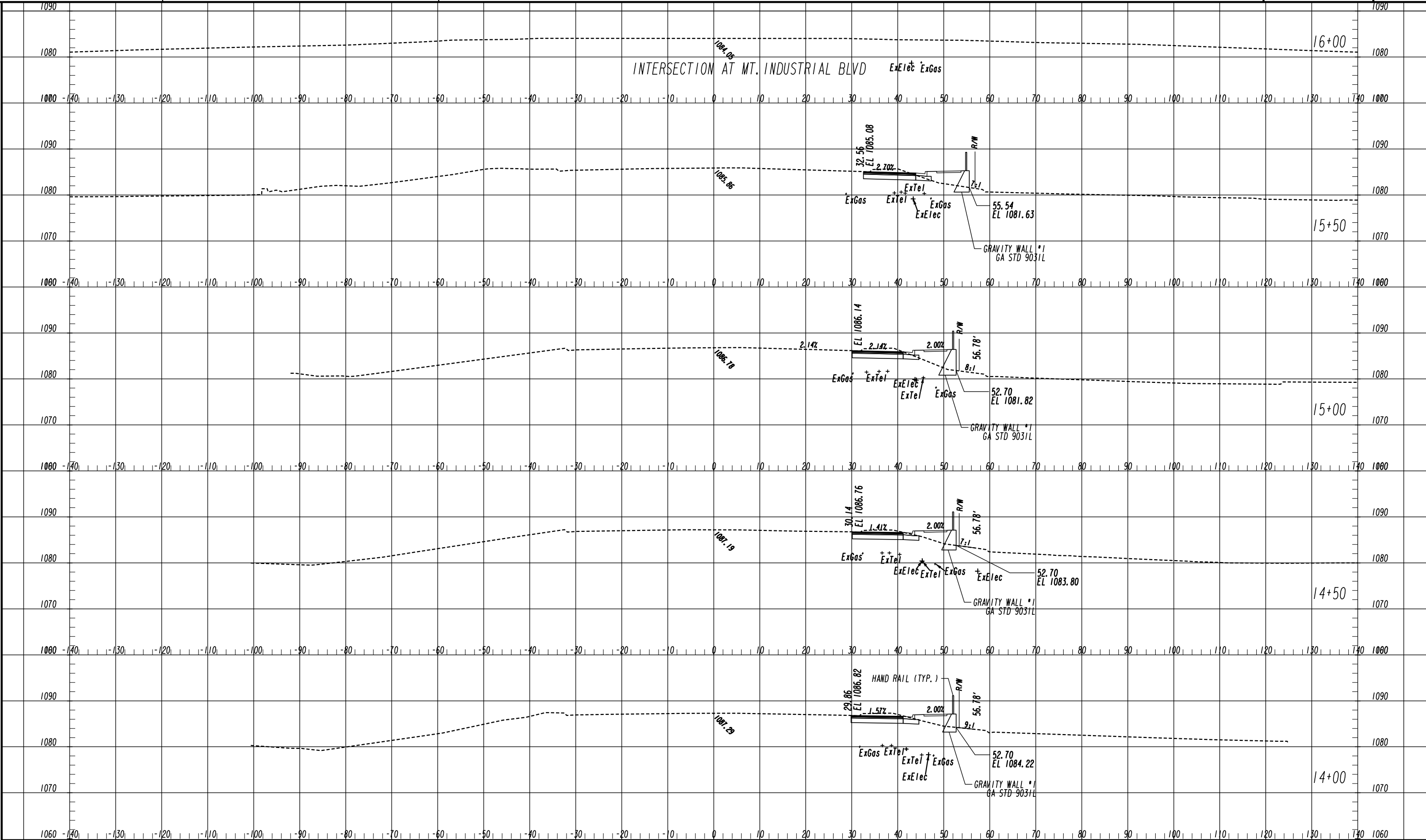
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REVISION DATES

CROSS SECTIONS
HUGH HOWELL RD

CHECKED:		DATE:		DRAWING No. 23- 0009
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		





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SCALE IN FEET
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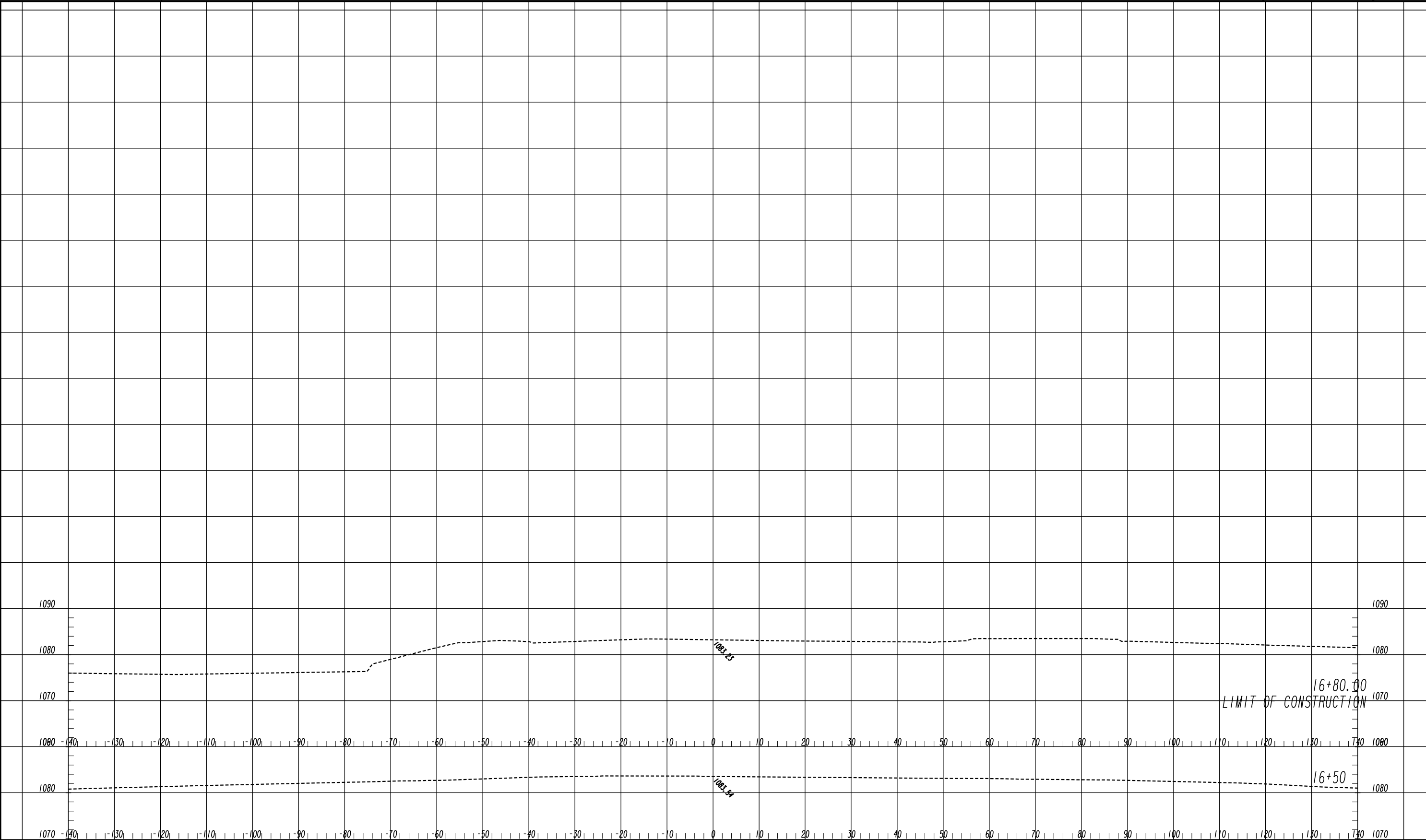
REVISION DATES
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CROSS SECTIONS
HUGH HOWELL RD

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

23- 0010

11/8/2018 SUXSEW



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

QUALITY LEVELS AND DEFINITIONS

- OL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.
- OL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.
- OL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. OL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.
- OL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

* SUE WAS ONLY CONDUCTED IN THE SW QUADRANT OF THE INTERSECTION

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



Know what's below.
Call before you dig.

REVISION DATES			UTILITY PLANS LEGEND			
			MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN AT HUGH HOWELL RD			
CHECKED:		DATE:		DRAWING No.		
BACKCHECKED:		DATE:		24-0000		
CORRECTED:		DATE:				
VERIFIED:		DATE:				

UTILITY SUMMARY:

ALL OF THE FOLLOWING UTILITY OWNERS WERE REPORTED TO HAVE FACILITIES WITHIN THE VICINITY OF THIS PROJECT AT THE TIME OF THE SUE INVESTIGATION. UTILITIES FOUND WITHIN THE LOS AT THE TIME OF SUE THE INVESTIGATION ARE NOTED FOR EACH UTILITY OWNER LISTED AND ARE SHOWN ON THE PLANS HEREON.

(ROF) = RECORDS ON FILE (RNA) = RECORDS NOT AVAILABLE

1. ATLANTA GAS LIGHT (AGL) - GAS
NOTE: ALL GAS LINES FOUND WITHIN THE LOS ARE OWNED BY ATLANTA GAS LIGHT UNLESS OTHERWISE NOTED ON THE PLANS. (ROF)
2. AT&T (ATT) - TELEPHONE

NOTE: ALL TELECOMMUNICATION LINES FOUND WITHIN THE LOS ARE OWNED BY ATT UNLESS OTHERWISE NOTED ON THE PLANS. (ROF)
3. CENTURYLINK (CEN) - TELECOMMUNICATION

NOTE: ALL TELECOMMUNICATION LINES FOUND WITHIN THE LOS ARE OWNED BY CENTURYLINK UNLESS OTHERWISE NOTED ON THE PLANS. (ROF)
4. COMCAST (COM) - TELEVISION

NOTE: ALL TELEVISION LINES FOUND WITHIN THE LOS ARE OWNED BY COMCAST UNLESS OTHERWISE NOTED ON THE PLANS. (ROF)
5. DEKALB COUNTY WATERSHED MANAGEMENT (DC) - SEWER/ WATER

NOTE: ALL SANITARY SEWER AND WATER LINES FOUND WITHIN THE LOS ARE OWNED BY DC UNLESS OTHERWISE NOTED ON THE PLANS. (ROF)
6. DEKALB COUNTY TRAFFIC & SAFETY (DC) - TRAFFIC CONTROL

NOTE: ALL TRAFFIC CONTROL LINES FOUND WITHIN THE LOS ARE OWNED BY DC UNLESS OTHERWISE NOTED ON THE PLANS. (ROF)
7. GEORGIA POWER (GPC) - ELECTRICITY

NOTE: ALL ELECTRIC LINES FOUND WITHIN THE LOS ARE OWNED BY GEORGIA POWER COMPANY UNLESS OTHERWISE NOTED ON THE PLANS. (ROF)
8. VERIZON BUSINESS (VZB) - TELECOMMUNICATION

NOTE: ALL TELECOMMUNICATION LINES FOUND WITHIN THE LOS THAT ARE OWNED BY VERIZON BUSINESS ARE NOTED ON THE PLANS (ROF)
9. COBB FENDLEY (CF) - TELECOMMUNICATION

NOTE: ALL TELECOMMUNICATION LINES FOUND WITHIN THE LOS THAT ARE OWNED BY COBB FENDLEY ARE NOTED ON THE PLANS. (ROF)
10. ZAYO COMMUNICATIONS

NOTE: ALL TELECOMMUNICATION LINES FOUND WITHIN THE LOS THAT ARE OWNED BY ZAYO COMMUNICATIONS ARE NOTED ON THE PLANS.

POLE ID	STATION	OFFSET	STATUS
	101+02.62	42.84' RT	RETAIN
	102+05.32	41.77' RT	RETAIN
	103+52.73	45.00' RT	RETAIN
	104+86.76	46.64' RT	RETAIN
	105+96.80	45.74' RT	RETAIN
	107+78.06	46.15' RT	RETAIN
LIGHT	107+93.65	53.42' RT	RETAIN
LIGHT	109+32.35	57.42' RT	RETAIN
	109+40.15	48.19' RT	RETAIN
STRAIN POLE	109+53.20	53.85' LT	REMOVE
19.01	109+56.41	47.51' RT	PROPOSED
19.03	109+75.46	73.75' RT	PROPOSED
	110+65.32	68.43' LT	RETAIN
	110+66.51	70.36' RT	RETAIN
STRAIN POLE	110+66.91	80.85' LT	RETAIN
	110+92.67	48.71' LT	RETAIN
	111+22.56	44.75' RT	RETAIN
	112+24.24	43.78' RT	RETAIN
	112+25.62	80.60' LT	RETAIN
LIGHT	112+37.74	50.90' RT	RETAIN
	112+74.29	47.41' LT	RELOCATE
	112+74.48	50.99' LT	RELOCATED
	112+89.22	87.68' LT	RETAIN
LIGHT	113+19.97	52.01' RT	RETAIN
	113+24.65	42.36' RT	RETAIN
LIGHT	114+03.41	53.31' RT	RETAIN
LIGHT	114+86.73	53.20' RT	RETAIN
	114+96.34	42.61' RT	RETAIN
	115+06.41	44.57' LT	RETAIN

POLE ID	STATION	OFFSET	STATUS
	115+10.92	96.64' LT	RETAIN
	115+15.44	74.50' LT	RETAIN
	116+65.59	38.31' RT	RETAIN
	116+69.54	41.35' LT	RETAIN
LIGHT	116+74.14	48.66' RT	RETAIN
	116+79.78	39.89' LT	REMOVE
	116+79.87	38.18' LT	REMOVE*
37.01	116+80.46	46.38' LT	PROPOSED
	118+06.05	37.08' RT	RETAIN
	118+07.12	36.75' RT	RETAIN*
	118+09.52	41.81' LT	RETAIN
	119+57.18	38.05' RT	RETAIN
	119+59.36	45.28' LT	RETAIN
	120+73.87	41.34' LT	RETAIN
	12+34.62	55.37' RT	RETAIN
LIGHT	13+15.39	107.62' RT	RETAIN
	13+15.39	45.07' RT	RETAIN
STRAIN POLE	13+77.99	42.23' RT	RETAIN
STRAIN POLE	13+80.98	41.71' LT	REMOVE
	14+07.39	45.07' RT	RETAIN
51.01	14+07.76	56.47' RT	PROPOSED
	15+17.30	43.56' RT	RELOCATE
	15+18.65	56.18' RT	RELOCATED
	17+87.51	41.76' RT	RETAIN
* INDICATES POSSIBLE DUPLICATE			



City of
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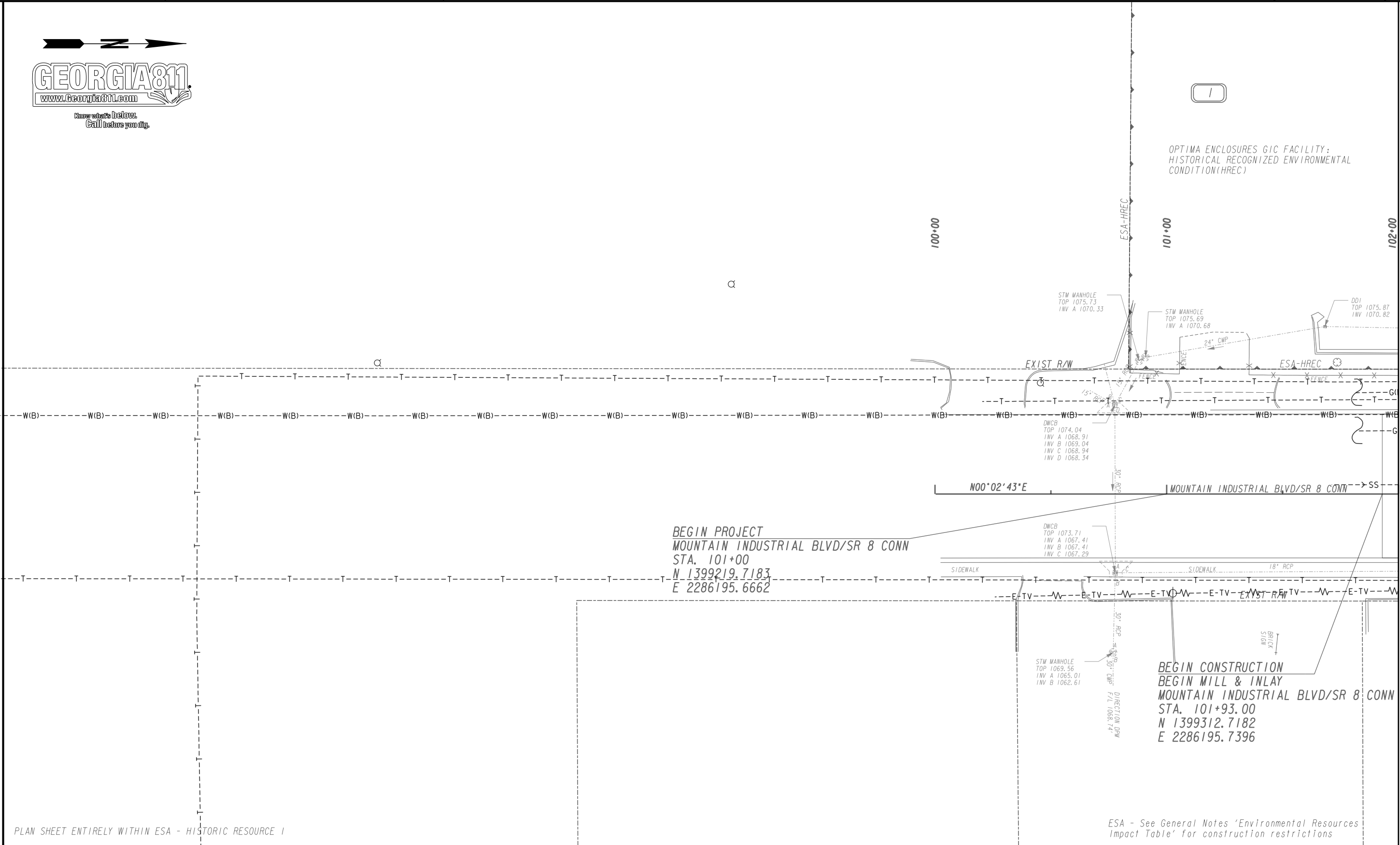
LOWE
ENGINEERS
990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

REVISION DATES

UTILITY PLANS LEGEND

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		24-0000A
CORRECTED:		DATE:		
VERIFIED:		DATE:		



MATCHLINE STA. 102+00 SEE SHEET 24-0002



City of
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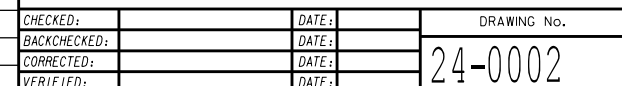
LOWE
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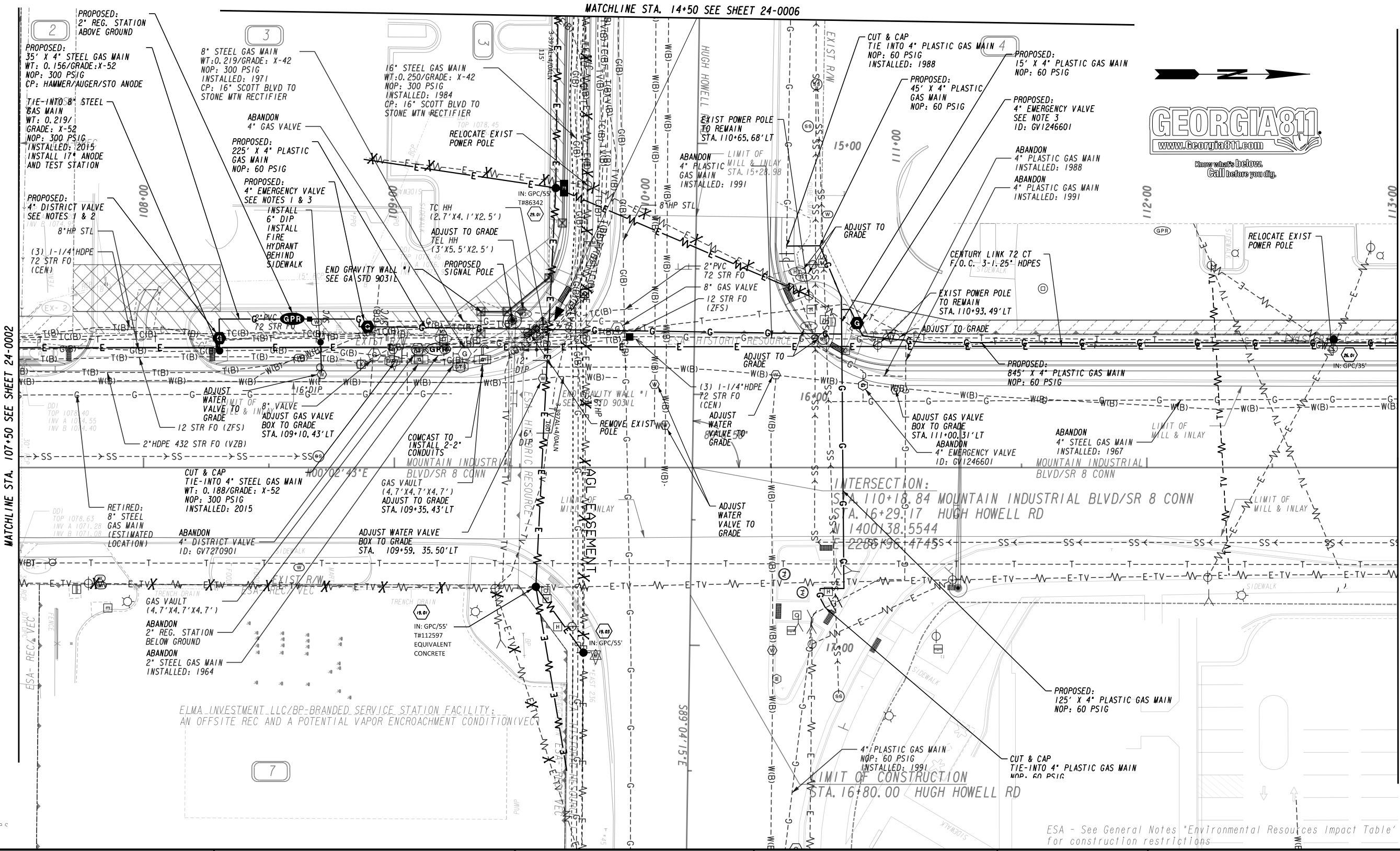
990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401



REVISION DATES			UTILITY PLANS			
			MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN AT HUGH HOWELL RD			
CHECKED:		DATE:		DRAWING No.		
BACKCHECKED:		DATE:		24-0001		
CORRECTED:		DATE:				
VERIFIED:		DATE:				

MATCHLINE STA. 107+50 SEE SHEET 24-0003





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SCALE IN FEET
0 20 40 80

REVISION DATES	

UTILITY PLANS	
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN AT HUGH HOWELL RD	
CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

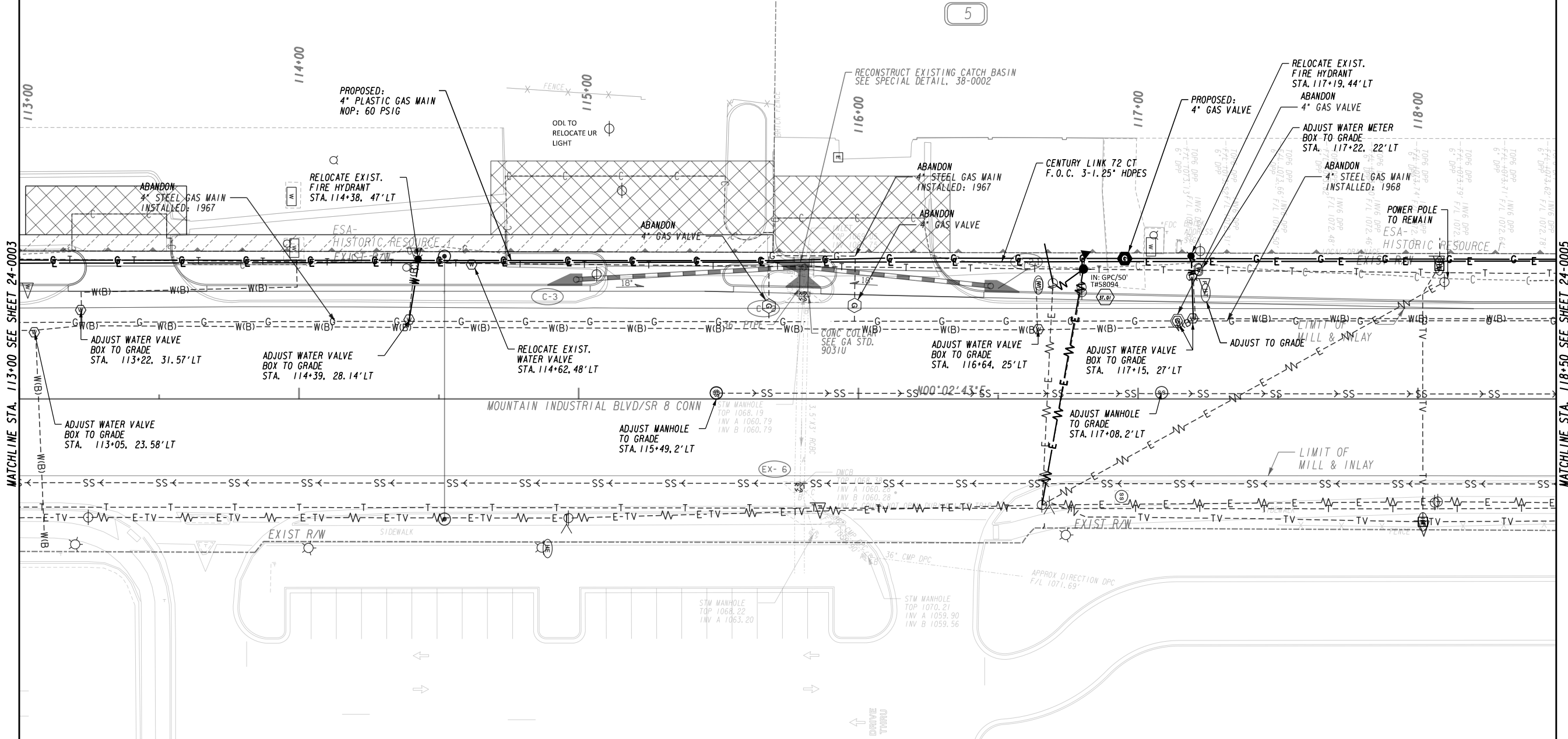
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24-0003

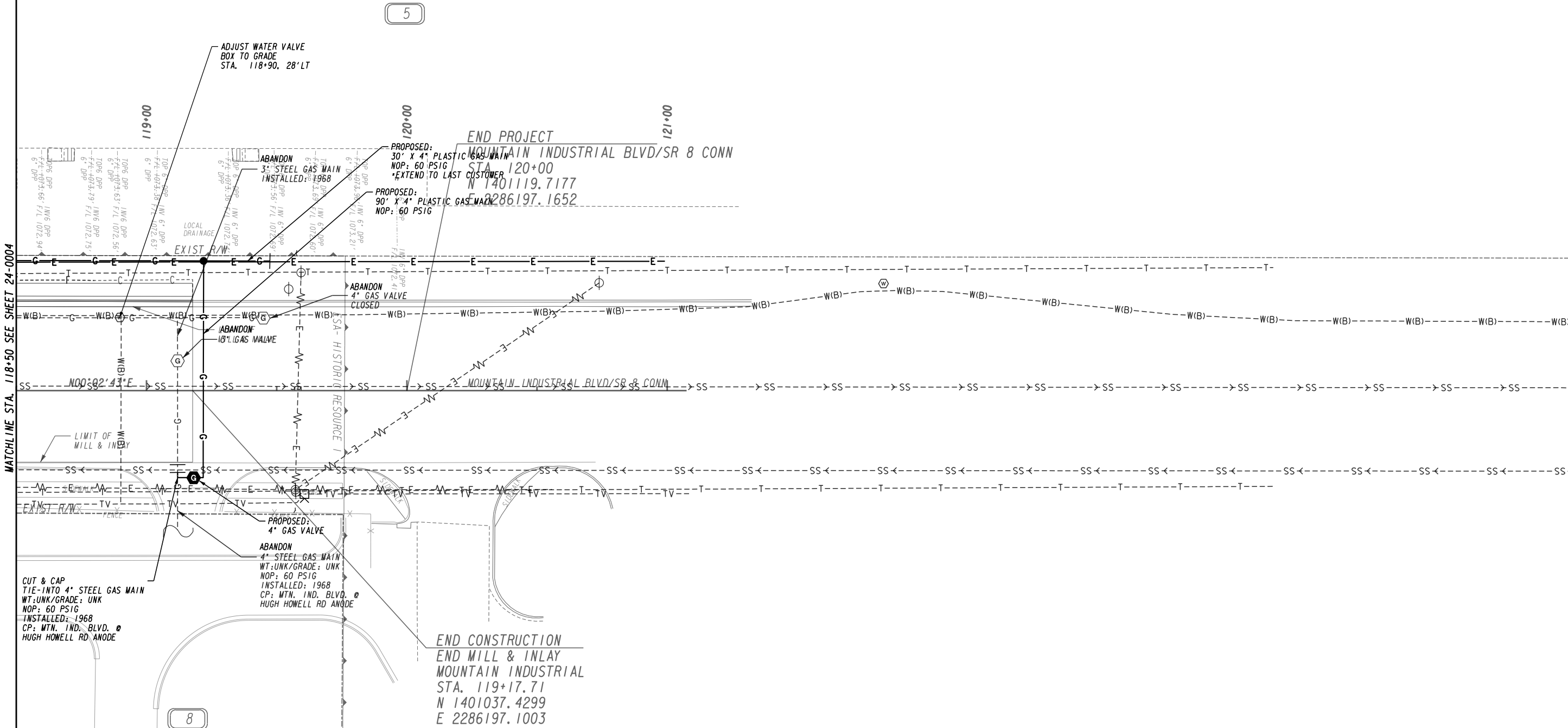
ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions



GEORGIA811
www.Georgia811.com

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ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions



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REVISION DATES

UTILITY PLANS

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

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

24-0005

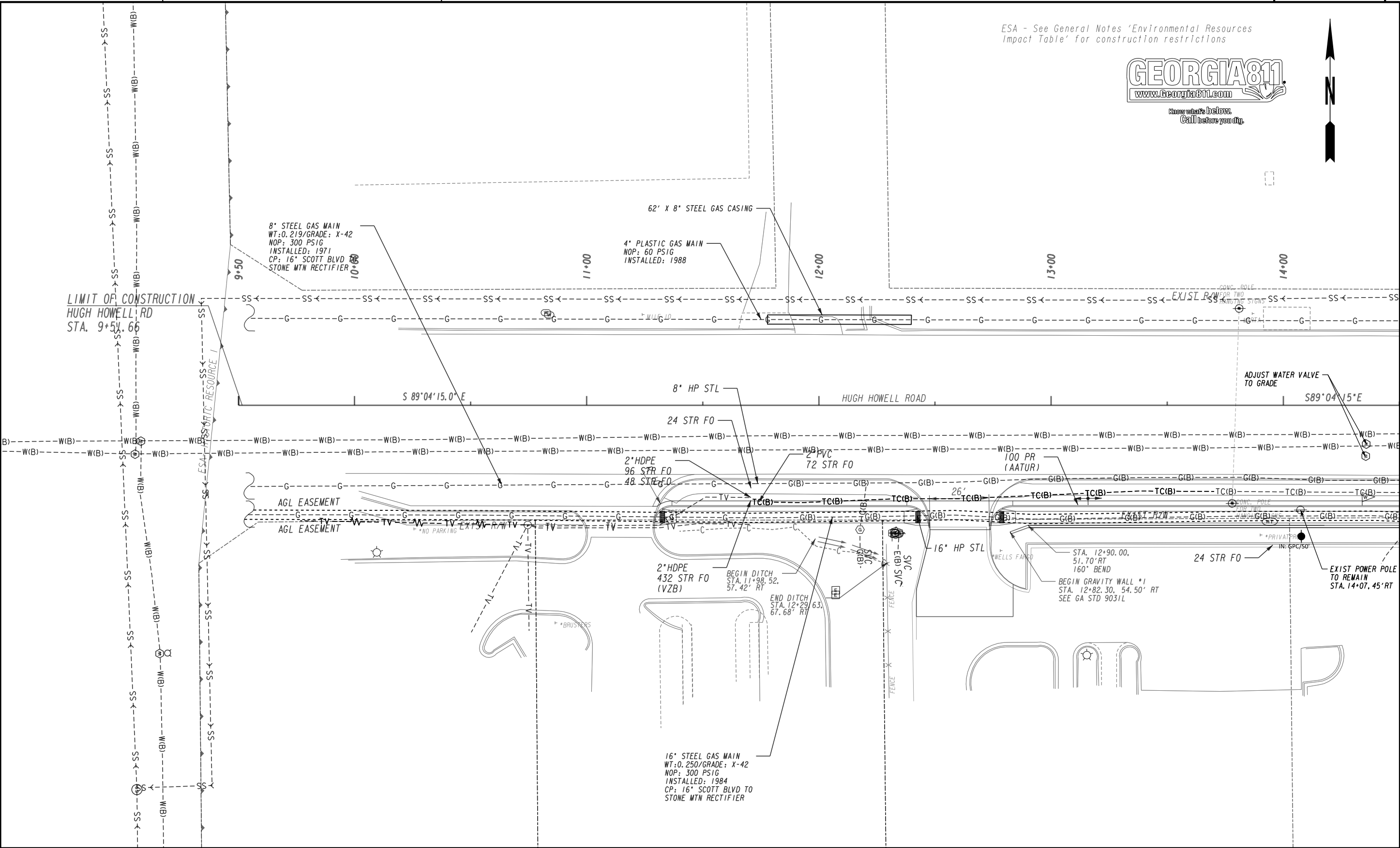
ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions



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LIMIT OF CONSTRUCTION
HUGH HOWELL RD
STA. 9+51.66



MATCHLINE STA. 14+50 SEE SHEET 24-0003



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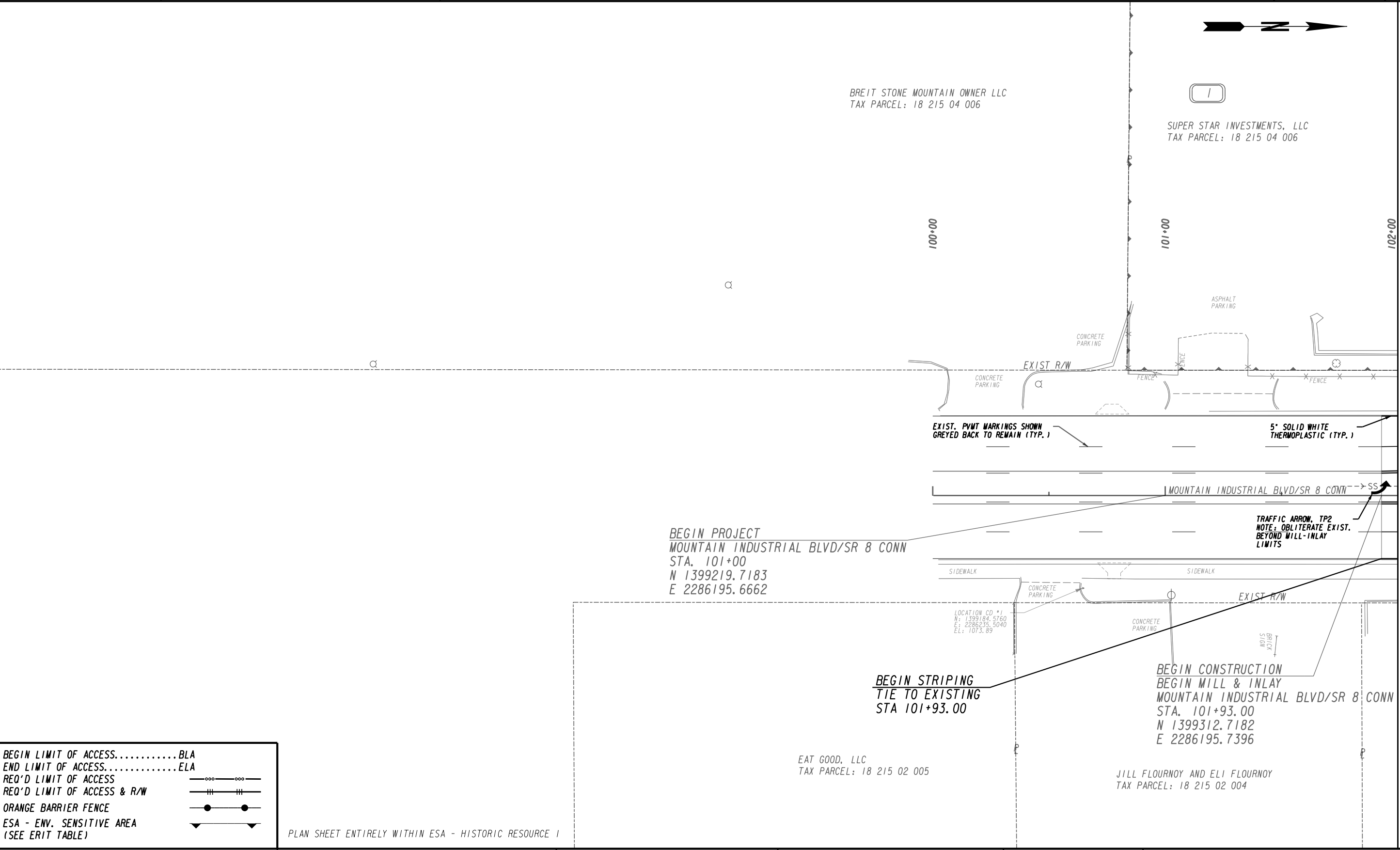
REVISION DATES

UTILITY PLANS

MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
AT HUGH HOWELL RD

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

24-0006



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

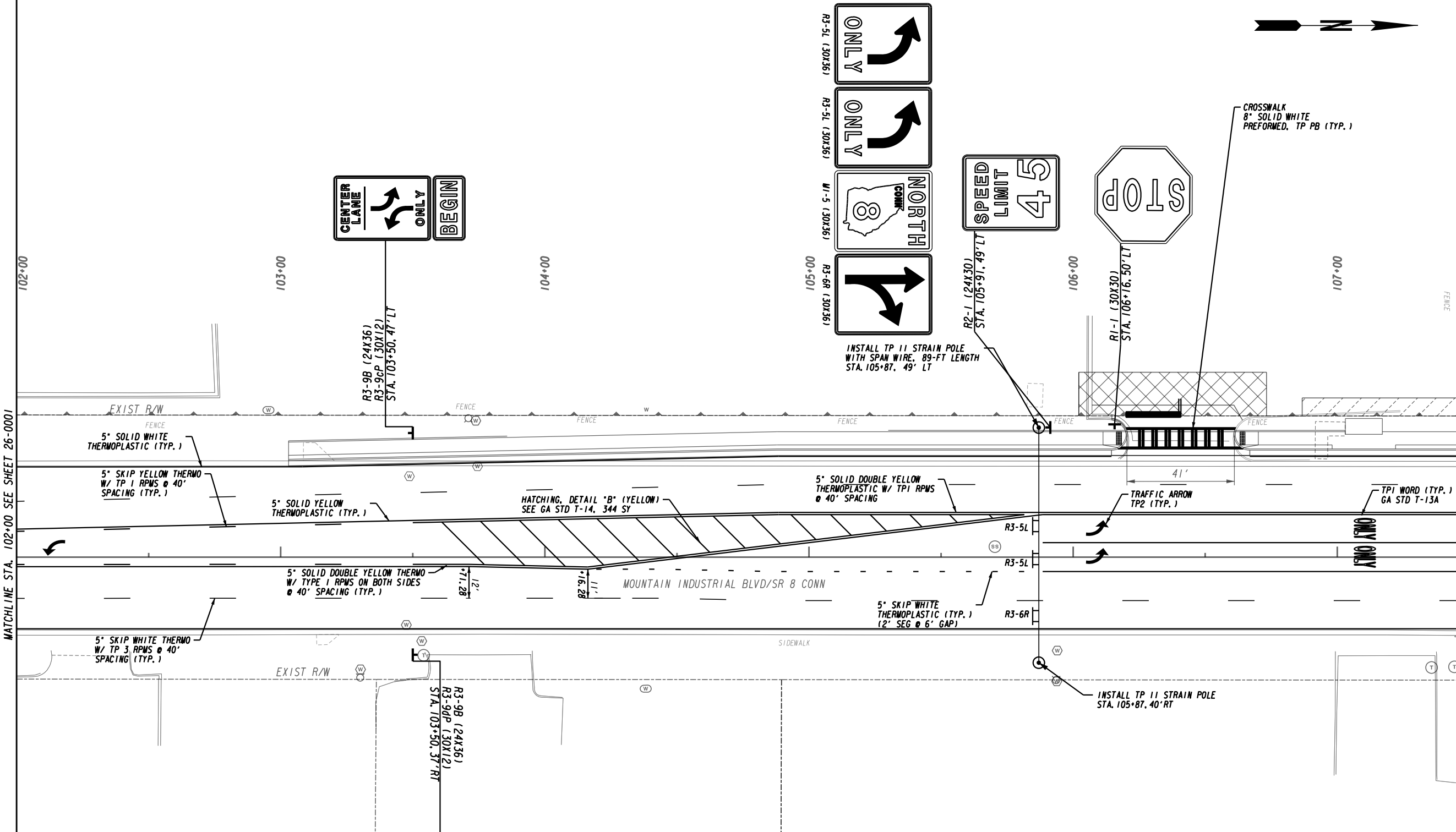
PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

LOWE
ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

REVISION DATES			SIGNING AND MARKING PLANS			
			MOUNTAIN INDUSTRIAL BLVD AT HUGH HOWELL RD			
			CHECKED:		DATE:	DRAWING No.
			BACKCHECKED:		DATE:	26-0001
			CORRECTED:		DATE:	
			VERIFIED:		DATE:	

10/23/2015 GPLN

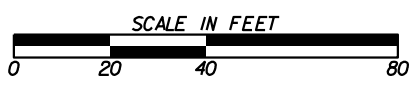


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(SEE ERIT TABLE)

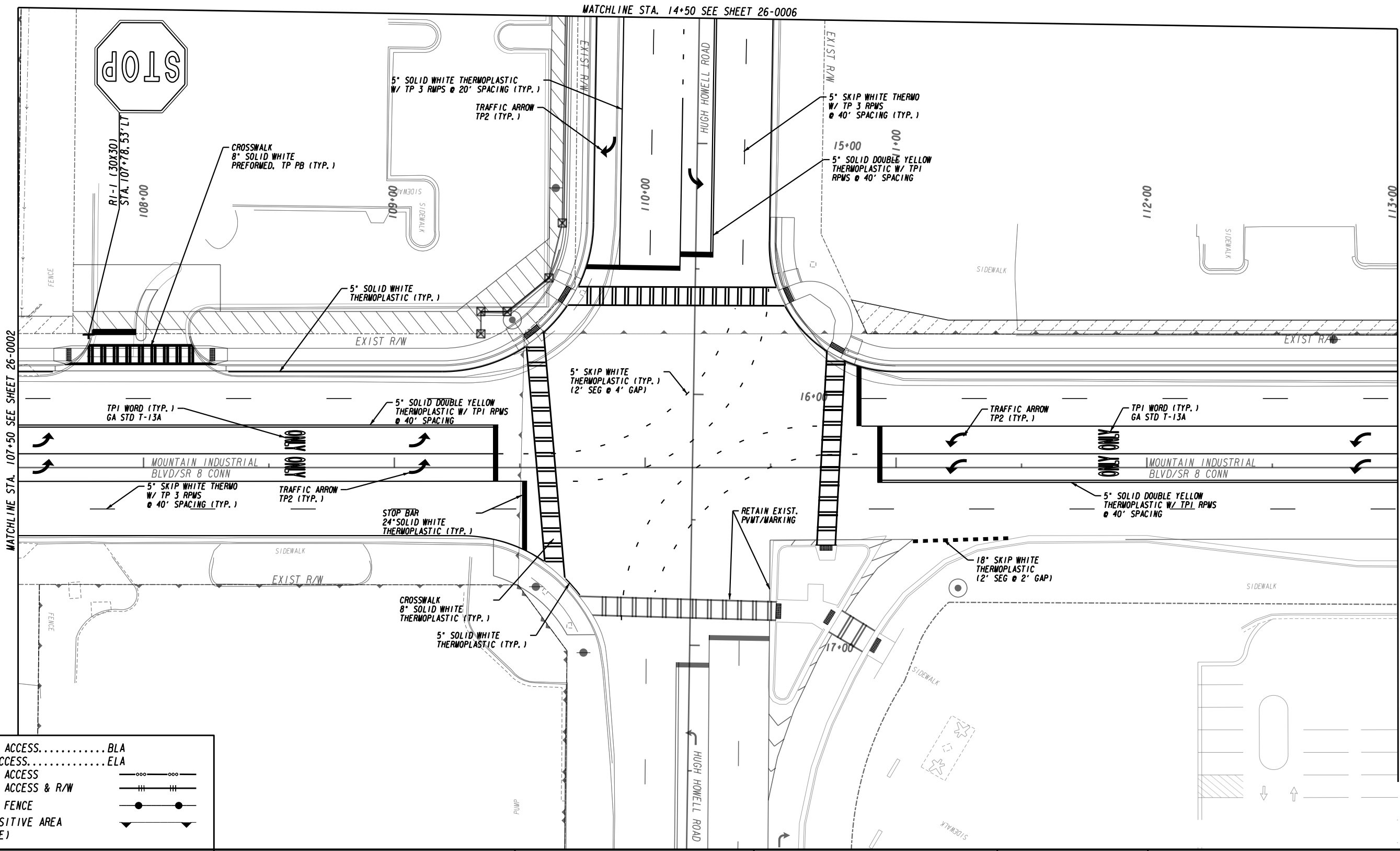
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REVISION DATES				SIGNING AND MARKING PLANS			
				MOUNTAIN INDUSTRIAL BLVD			
				AT HUGH HOWELL RD			
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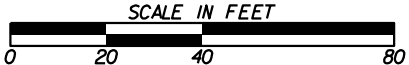


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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

PROPERTY AND EXISTING R/W LINE
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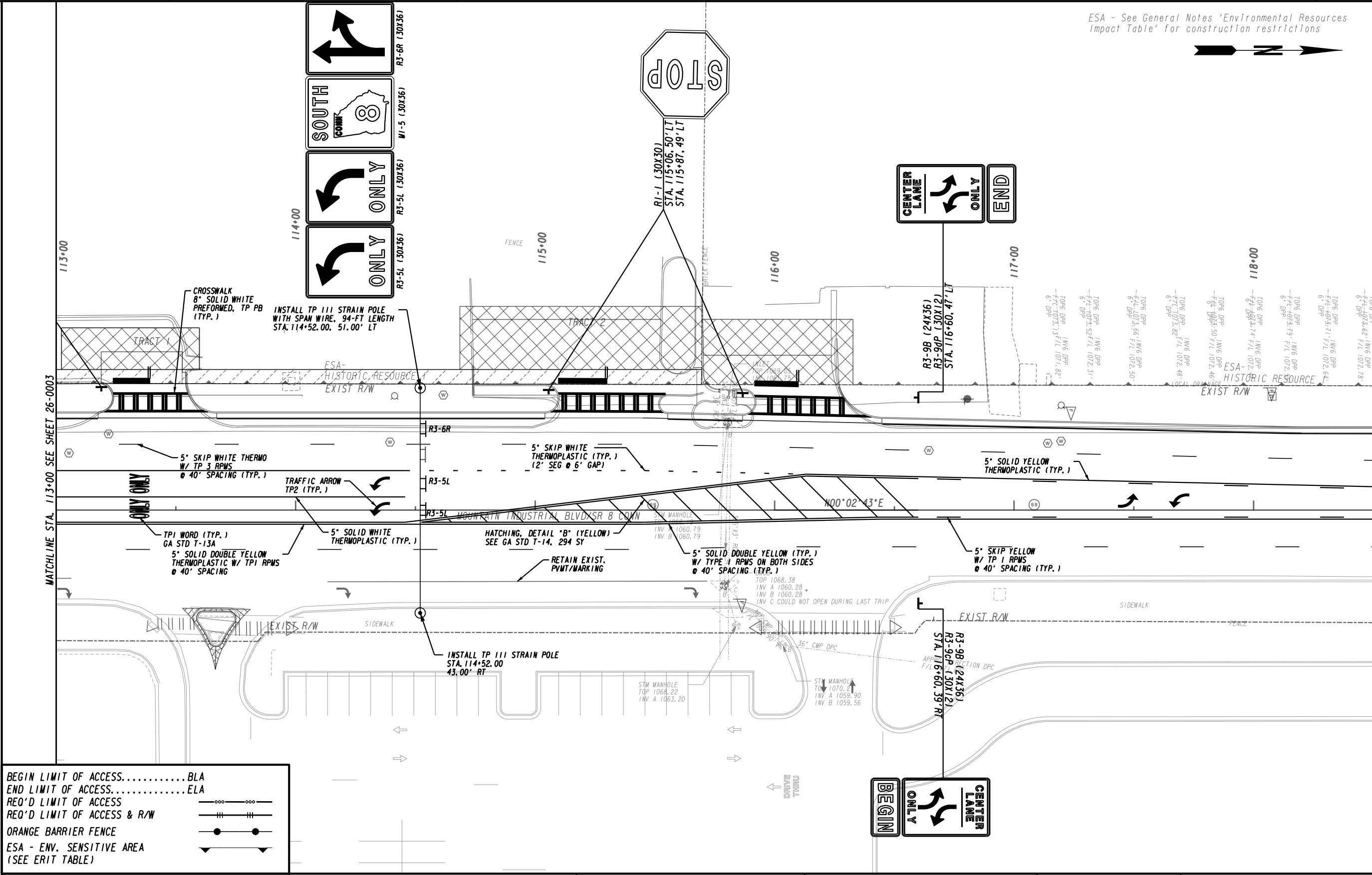


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REVISION DATES	

SIGNING AND MARKING PLANS			
MOUNTAIN INDUSTRIAL BLVD AT HUGH HOWELL RD			
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CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			26-0003

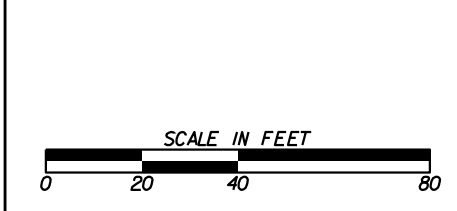


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PROPERTY AND EXISTING R/W LINE
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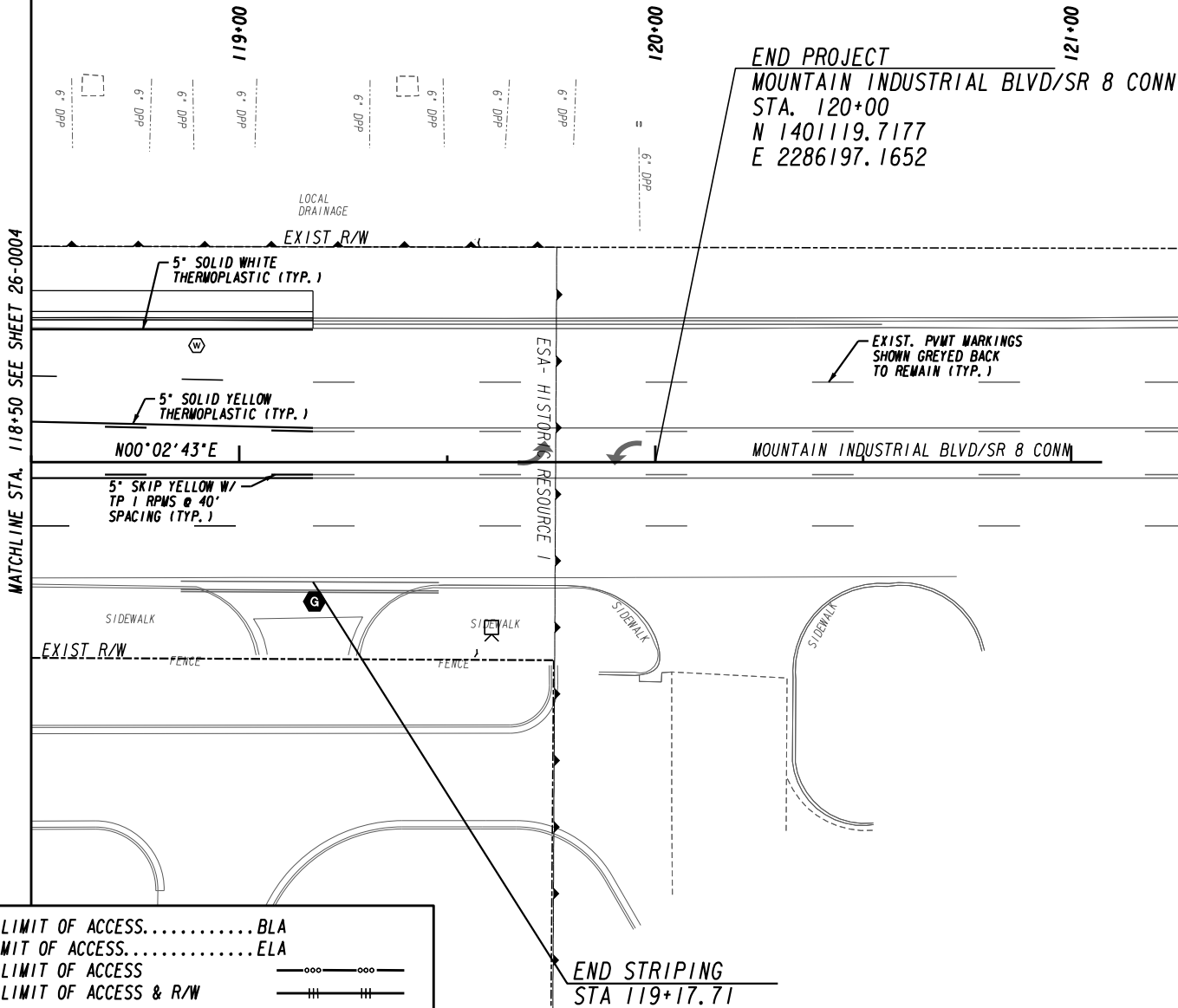


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REVISION DATES	

SIGNING AND MARKING PLANS			
MOUNTAIN INDUSTRIAL BLVD			
AT HUGH HOWELL RD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



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

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

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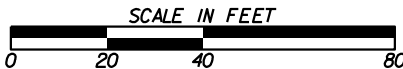
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City of
Tucker

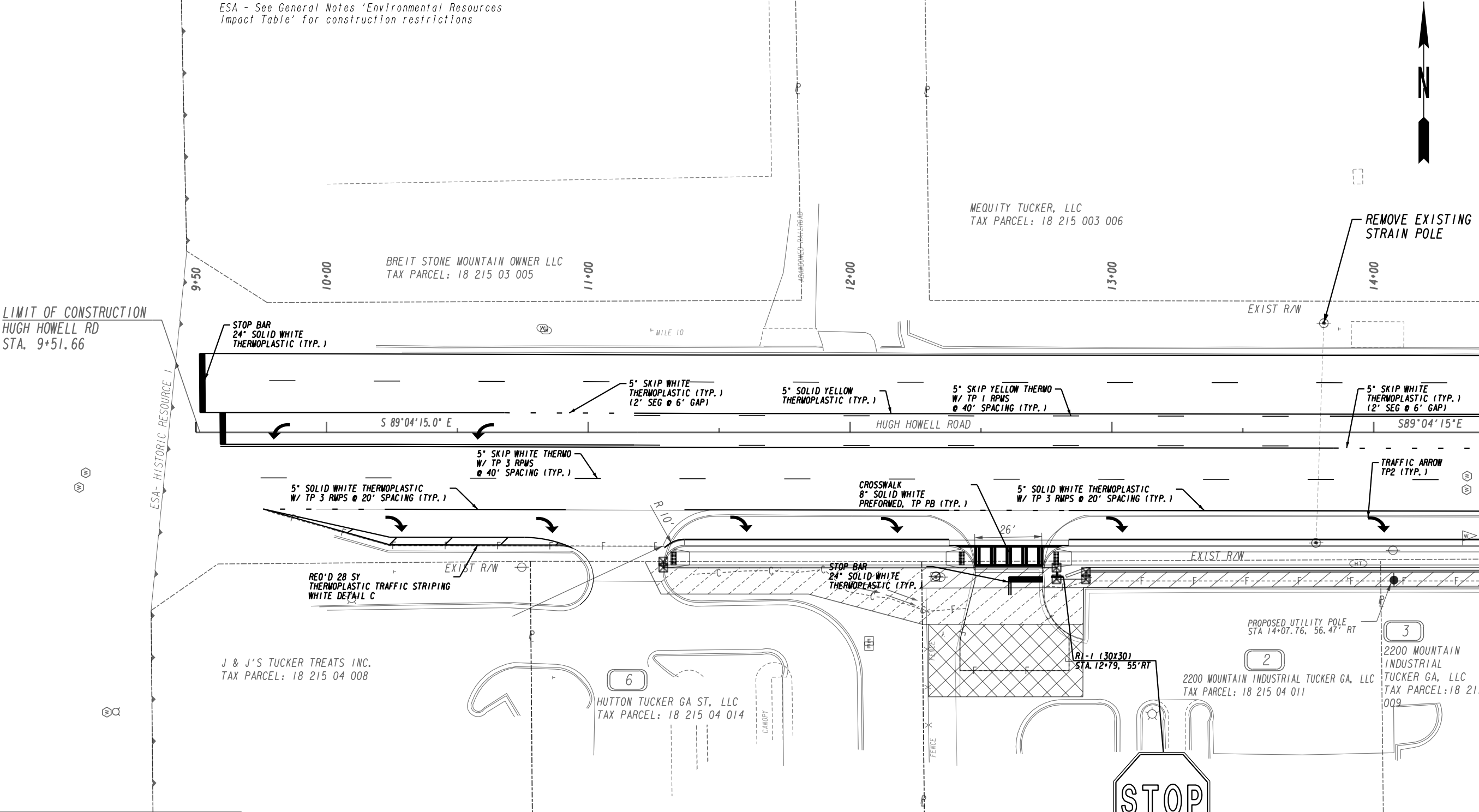
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ESA - See General Notes 'Environmental Resources
Impact Table' for construction restrictions

REVISION DATES			SIGNING AND MARKING PLANS			
			MOUNTAIN INDUSTRIAL BLVD AT HUGH HOWELL RD			
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PROPERTY AND EXISTING R/W LINE
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EASEMENT FOR CONSTR OF DRIVES

City of
Tucker

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SCALE IN FEET

0

20

40

80

REVISION DATES

SIGNING AND MARKING PLANS
MOUNTAIN INDUSTRIAL BLVD
AT HUGH HOWELL RD

CHECKED:

BACKCHECKED:

CORRECTED:

VERIFIED:

DATE:

DATE:

DATE:

DATE:

DRAWING No.
26-0006

10/23/2015 GPLN

TRAFFIC SIGNAL GENERAL NOTES

1. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION.

2. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.

3. SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET. DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CONTROL CABINET.

4. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN VICINITY OF NEW TRAFFIC SIGNAL POLES PRIOR TO ORDERING. AT THE DISCRETION OF THE ENGINEER, MINOR SHIFTS, (UP TO A MAXIMUM OF 5 FEET), IN LOCATION OF NEW SIGNAL POLES, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PLANS.

5. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATIONS(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.

6. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY TIMBER POLES WHEN ATTACHING SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

7. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE DISTRICT TRAFFIC ENGINEER PRIOR TO FINAL ACCEPTANCE.

8. WHEN REMOVED, EXISTING EQUIPMENT SHALL BE DELIVERED AND UNLOADED BY THE CONTRACTOR TO THE CITY OF TUCKER PUBLIC WORKS DEPARTMENT CONTACT THE CITY SIGNAL ENGINEER AT (678) 597-9040

9. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION CONSTRUCTION DETAIL TS-05 .

10. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE DOT SPECIFICATION.

11. THE INSTALLATIONS SHALL BE CAPABLE OF MONITORING OVER ETHERNET NETWORKS FROM EXISTING CENTRAL COMPUTERS OR VIA "CLOSED LOOP" MONITORING, PER THE DISTRICT SIGNAL ENGINEER. CENTRAL COMUPTERS ARE LOCATED AT 935 EAST CONFEDERATE AVENUE BLDG. 24 ATLANTA, GEORGIA 30316. NETWORK ABILITIES DEMONSTRATION IS REQUIRED AT CENTRAL SITES. NOTED PRIOR TO FINAL ACCEPTANCE.

12. ALL EXISTING STOP BARS, WORDS, ARROWS AND CROSSWALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE REPLACED IN ACCORDANCE WITH CURRENT GDOT STANDARDS.

13. PROPOSED SIGNAL SUPPORT WIRE ATTACHMENT HEIGHTS ON POLES ARE PROVIDED AS GENERAL GUIDELINES TO INSTALLER, ACTUAL ATTACHMENT HEIGHTS SHALL BE FIELD DETERMINED BY INSTALLER TO PROVIDE REQUIRED SIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM EXISTING UTILITIES.

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

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

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

17. ALL TRAFFIC MARKING, SYMBOLS OR STRIPING TO BE REMOVED AND/OR REPLACED SHALL BE PAID FOR IN THE TRAFFIC CONTROL LUMP SUM ITEM.

18. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH MODIFYING EXISTING AND ESTABLISHING NEW POWER AND COMMUNICATIONS SERVICES FOR TRAFFIC SIGNAL, VIDEO DETECTION SYSTEMS AND/OR CCTV CAMERAS ON THIS PROJECT. IF A UTILITY TRANSFORMER IS REQUIRED FOR TRAFFIC SIGNAL EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE AS PART OF THEIR BID PRICE, FOR THAT TRAFFIC SIGNAL INSTALLATION IF THE RESPECTIVE UTILITY REQUIRES PAYMENT FOR INSTALLTION

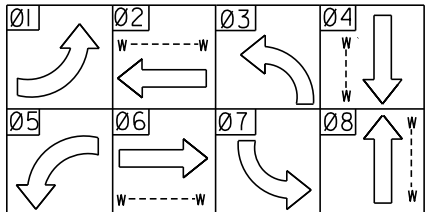
19. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL MONTHLY POWER AND COMMUNICATION SERVICE TO THE TRAFFIC SIGNAL INSTALLTION AND SUPPORT DEVICES, UNTIL THE NEW TRAFFIC SIGNAL INSTALLTION HAS SATISFACTORILY COMPLETED A TEST PERIOD OF UNINTERRUPTED OPERTATION, FOR 30 DAYS. UPON COMPLETION OF THE TEST PERIOD, THE CONTRACTOR WILL COMPLETE A TRANSFER OF UTILITY COST TO DEKALB COUNTY.

20. ALL PROPOSED STRAIN POLES SHALL MATCH THE COLOR, FINISH AND STYLE OF EXISTING POLES.



Know what's below.
Call before you dig.

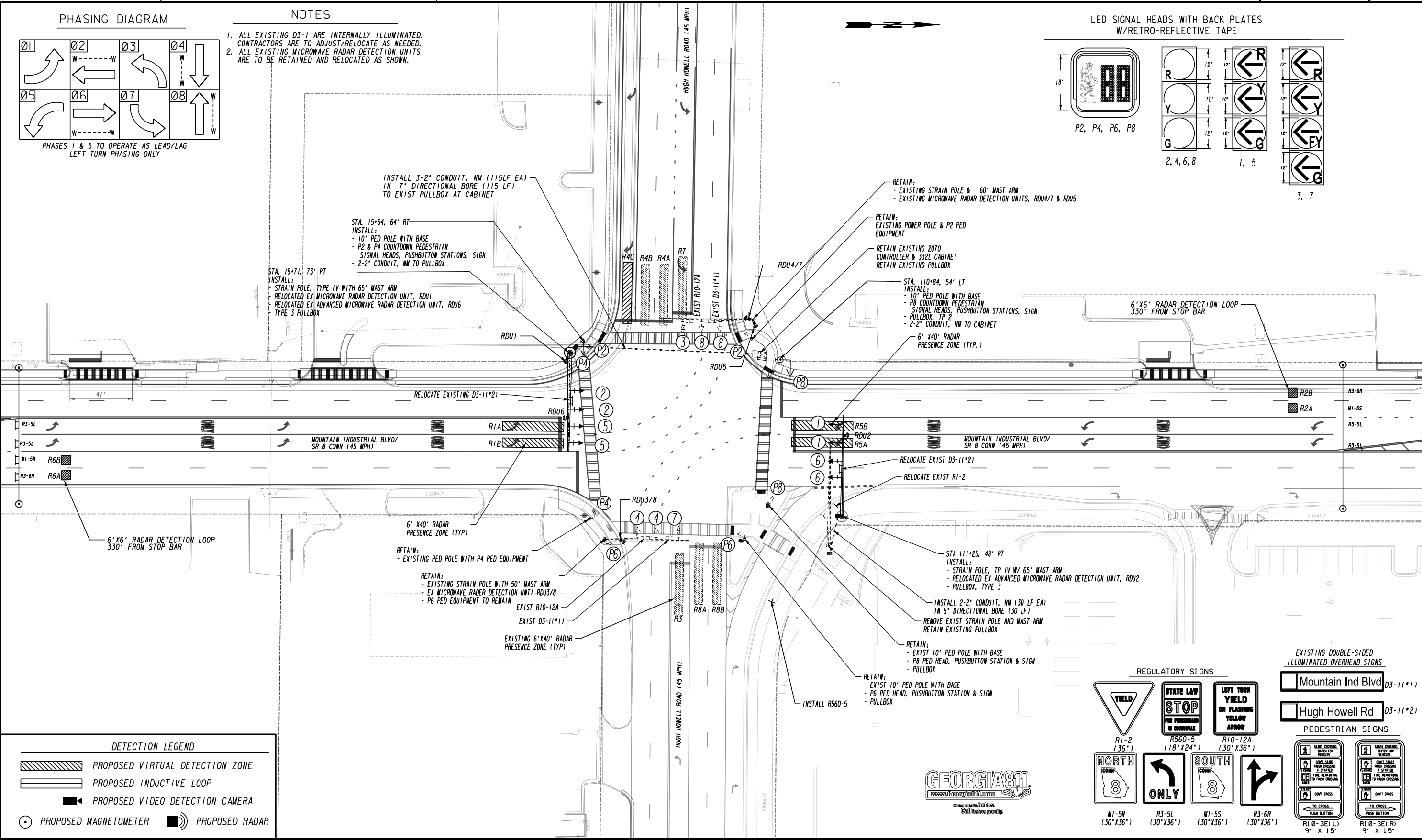
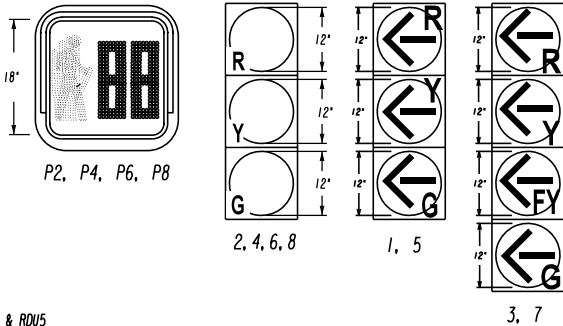
PHASING DIAGRAM



NOTES

- ALL EXISTING D3-1 ARE INTERNALLY ILLUMINATED. CONTRACTORS ARE TO ADJUST/RELOCATE AS NEEDED.
- ALL EXISTING MICROWAVE RADAR DETECTION UNITS ARE TO BE RETAINED AND RELOCATED AS SHOWN.

LED SIGNAL HEADS WITH BACK PLATES
W/RETRO-REFLECTIVE TAPE

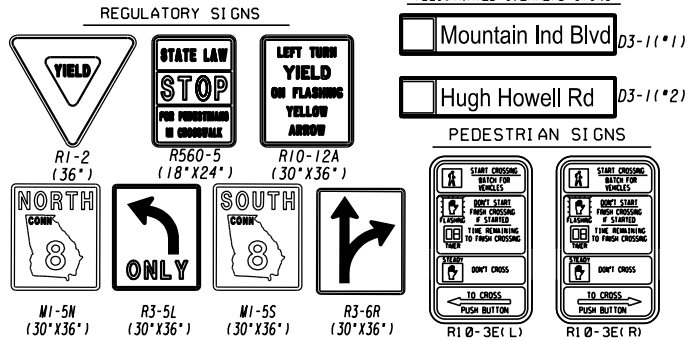


DETECTION LEGEND

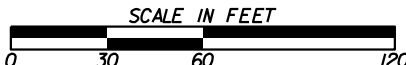
- PROPOSED VIRTUAL DETECTION ZONE
- PROPOSED INDUCTIVE LOOP
- PROPOSED VIDEO DETECTION CAMERA
- PROPOSED MAGNETOMETER
- PROPOSED RADAR

SIGNAL LEGEND

- PROPOSED SIGNAL HEAD
- PROPOSED 4-SECTION SIGNAL HEAD
- EXISTING SIGNAL HEAD
- PROPOSED 5-SECTION (CLUSTER) SIGNAL HEAD
- RELOCATED SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD



LOWE ENGINEERS
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REVISION DATES

REVISION DATES				SIGNAL PLANS	
				TRAFFIC SIGNAL INSTALLATION #1	
				HUGH HOWELL RD AT	
				SR 8 CONN/MOUNTAIN INDUSTRIAL BLVD	
				DeKALB COUNTY	
CHECKED:		DATE:		DRAWING No.	
BACKCHECKED:		DATE:		27-0002	
CORRECTED:		DATE:			
VERIFIED:		DATE:			

FOR INFORMATION PURPOSES ONLY		
TRAFFIC SIGNAL INSTALLATION NO. 1		
LOCATION: SR236/HUGH HOWELL RD @ MOUNTAIN INDUSTRIAL BLVD		
LIST OF MATERIALS		
PI NUMBER: 0015216		
LIST OF MATERIALS	UNIT	QUANTITY
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT.	REEL	2
3-PAIR LOOP LEAD-IN CABLE, 18 AWG, PER 1000 FT.	REEL	1
3-SECTION, 12" SIGNAL FACE LED - ALL BLACK HOUSING & FRONT, POLYCARBONATE	EA	4
3-SECTION, 12" SIGNAL FACE LED - RA,YA,GA - ALL BLACK HOUSING & FRONT FRONT, POLYCARBONATE	EA	4
BACKPLATE FOR 3-SECTION, 12" SIGNAL FACE - ABS POLYCARBONATE, BLACK W/ RETROREFLECTIVE STRIP	EA	8
HARDWARE FOR MAST ARM MOUNTING	EA	10
1-SECTION, 18" x 18" PEDESTRIAN SIGNAL FACE HOUSING, W/ 16" LED COUNTDOWN INSERT, FULL HAND/MAN OVERLAP	EA	2
PUSH BUTTON STATION ASSEMBLY W/TH SIGN	EA	2
PEDESTRIAN DUAL PUSH BUTTON STATION ADAPTER, 4 IN PEDESTAL POLE, ADJUSTABLE (BLACK)	EA	1
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY, BLACK	EA	1
PEDESTAL POLE W/ SQUARE BASE	EA	1
PULL BOX, PB-3	EA	2
CONDUIT, 2" TP 2	LF	300
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP
647-1000 TRAFFIC SIGNAL INSTALLATION NO. 1	LUMP	LUMP
639-3004 STEEL STRAIN POLE, TP IV w/ 65 FT MAST ARM	EA	2
682-9950 DIRECTIONAL BORE, 5 IN	LF	30
682-9950 DIRECTIONAL BORE, 7 IN	LF	130

332 CABINET INPUT ASSIGNMENT														
SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
UPPER INPUT FILE														
CHANNEL 1	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC
	CARD	IYOS				IYOS	IYOS						DC ISO	
	CI PIN	56	39	63	47	58	41	65	49	68		88	67	68
	FUNCTION	V1				V3A	V4A						P2 PED	P6 PED
	FIELD TERM	T82 L2	T82 5,6	T82 9,10	T84 L2	T84 5,6	T84 9,10	T86 L2	T86 5,6	T86 9,10			T88 4,6	T88 7,9
														N/C
CHANNEL 2	CI PIN	56	43	76	47	58	45	78	49	62		53	69	78
	FUNCTION					V3B	V4B						P4 PED	P8 PED
	FIELD TERM	T82 3,4	T82 7,8	T82 11,12	T84 3,4	T84 7,8	T84 11,12	T86 3,4	T86 7,8	T86 11,12			T88 5,6	T88 8,9
														N/C
LOWER INPUT FILE														
CHANNEL 1	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC
	CARD	IYOS				IYOS	IYOS							
	CI PIN	55	48	64	48	57	42	66	58	59		54	71	72
	FUNCTION	V5				V7A	V8A							51
	FIELD TERM	T83 L2	T83 5,6	T83 9,10	T85 L2	T85 5,6	T85 9,10	T87 L2	T87 5,6	T87 9,10			T89 4,6	T89 7,9
														T89 10,12
CHANNEL 2	CI PIN	55	44	77	48	57	46	79	58	61		75	73	74
	FUNCTION					V7B	V8B							
	FIELD TERM	T83 3,4	T83 7,8	T83 11,12	T85 3,4	T85 7,8	T85 11,12	T87 3,4	T87 7,8	T87 11,12			T89 5,6	T89 8,9
														T89 11,12



City of

Tucker

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REVISION DATES

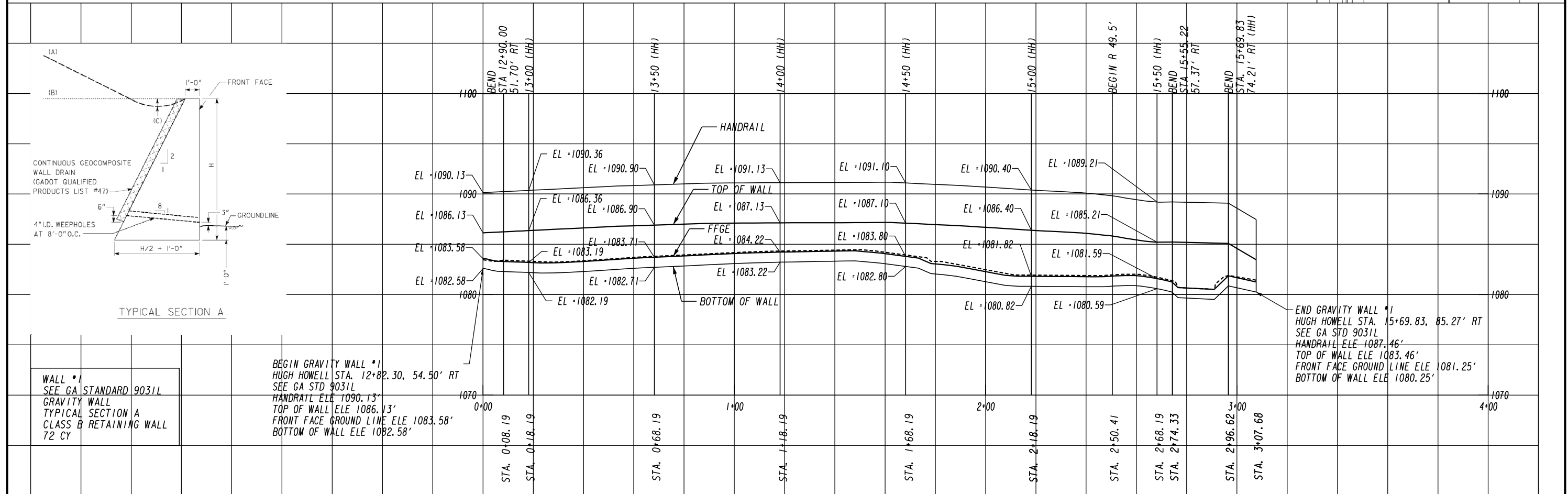
SIGNAL PLANS

TRAFFIC SIGNAL INSTALLATION #1

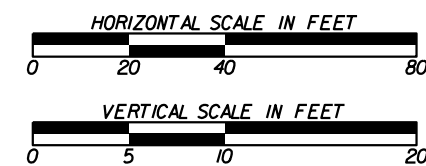
SR 236/HUGH HOWELL RD AT

MOUNTAIN INDUSTRIAL BOULEVARD

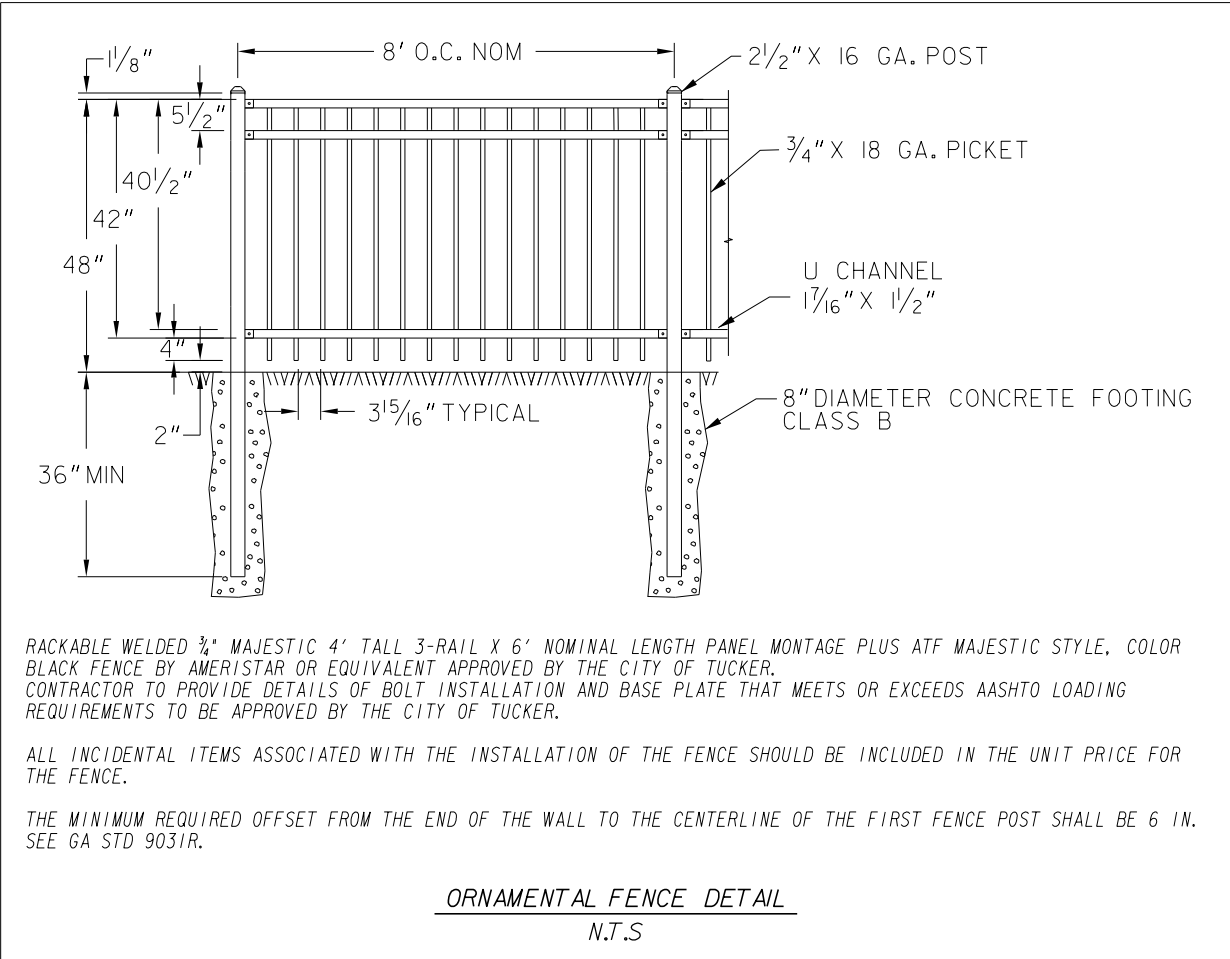
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RETAINING WALL ENVELOPES MOUNTAIN INDUSTRIAL BLVD AT HUGH HOWELL RD			
CHECKED:		DATE:	DRAWING No. 31-0001
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CORRECTED:		DATE:	
VERIFIED:		DATE:	



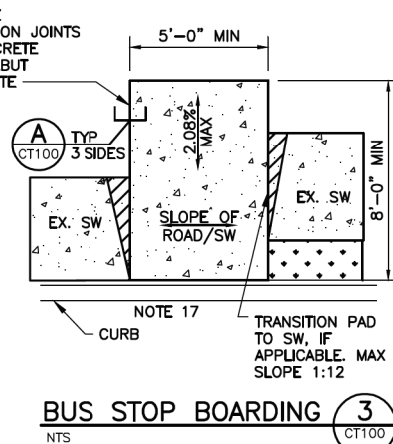
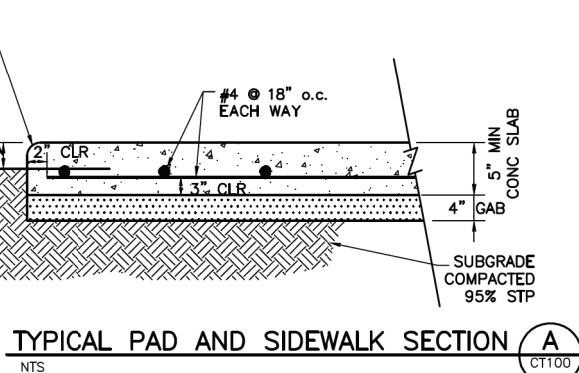
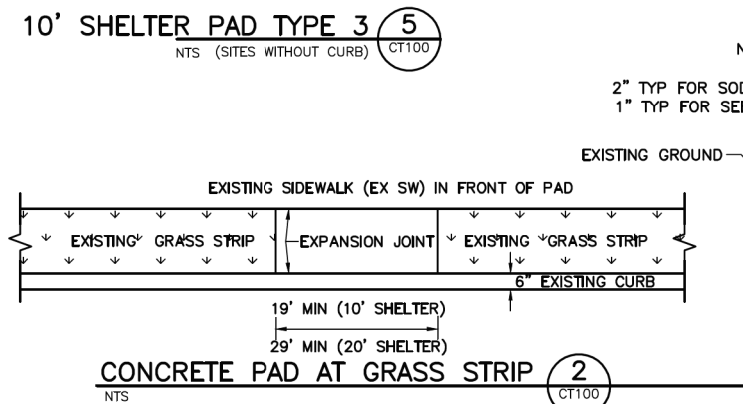
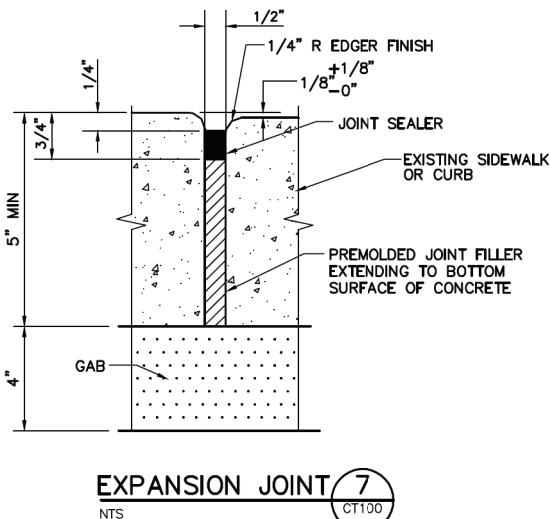
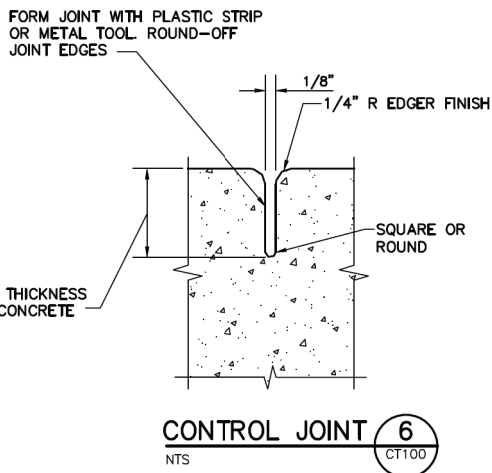
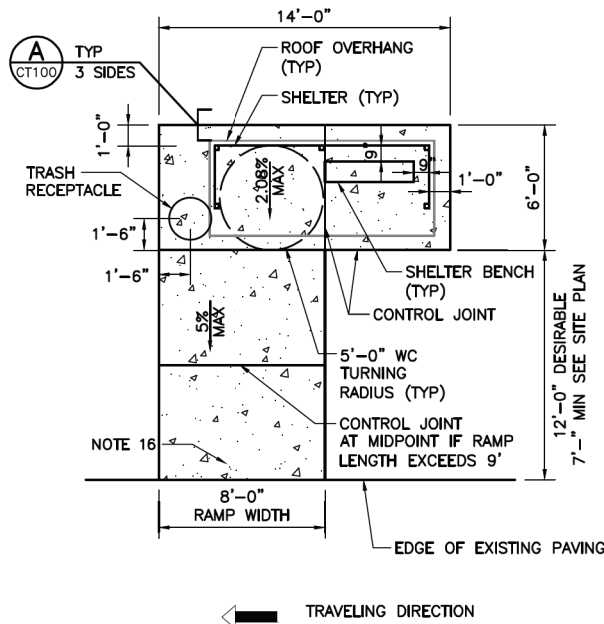
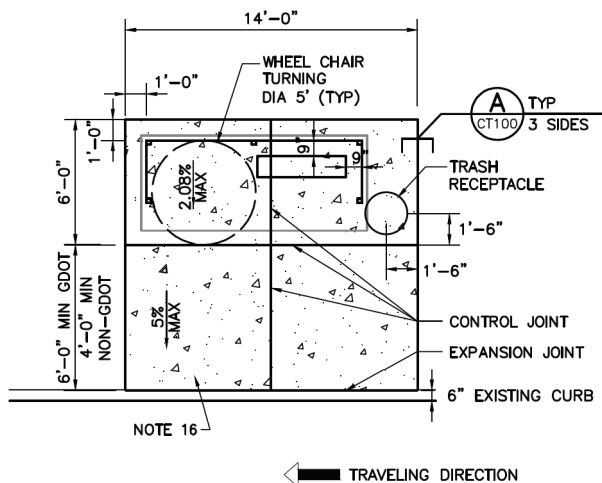
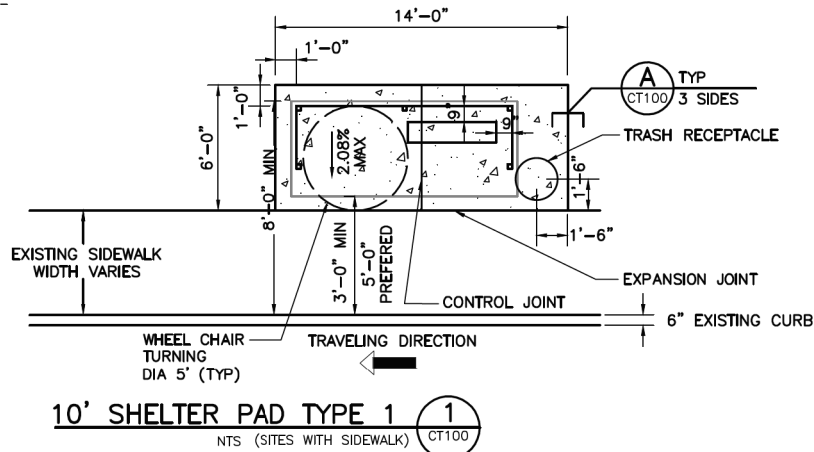
NOTES:

- GRAVITY WALL IS TO BE MOLDED WITH A STONE VENEER APPEARANCE ON THE ROAD-FACING SIDE.THIS FACADE SHALL COVER THE FRONT OF WALLS.CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER TO FINALIZE VISIBLE PORTION OF WALLS. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE OF THE RETAINING WALL.
- VENEER MOLD TO BE SIMILAR TO GLOMARBLE VENEER STONE MOLD VS 101. CONTRACTOR TO SUBMIT THE FINAL DETAILS OF THE WALL,INCLUDING VENEER MOLD TO BE USED,TO CITY ENGINEER BEFORE CONSTRUCTION FOR APPROVAL.



N.T.S

REVISION DATES			RETAINING WALL ENVELOPES			
			MOUNTAIN INDUSTRIAL BLVD			
			AT HUGH HOWELL RD			
			CHECKED:		DATE:	DRAWING No.
			BACKCHECKED:		DATE:	31-0002
			CORRECTED:		DATE:	
			VERIFIED:		DATE:	



- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN WORK AREA.
 - NO WORK SHALL BE PERFORMED IN THE RIGHT-OF-WAY WITHOUT A PERMIT.
 - INSTALLATION OF SHELTER, BENCH AND TRASH RECEPTACLE SHALL BE PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHOP DRAWINGS.
 - TRASH RECEPTACLE SHALL BE INSTALLED USING ANCHORS PROVIDED BY MANUFACTURER.
 - ELECTRICAL CONNECTIONS SHOWN ARE THE ENGINEERS BEST ESTIMATE. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER FOR ACTUAL LOCATIONS AND TYPE OF CONNECTIONS (OVERHEAD OR UNDERGROUND). CONTRACTOR SHALL INSTALL UNDERGROUND CONDUITS AND CONDUCTORS AS REQUIRED TO CONNECT TO GEORGIA POWER. UNDERGROUND CONDUITS SHALL BE COORDINATED WITH THE AUTHORITY PRIOR TO WORK BEING PERFORMED. ELECTRICAL CONNECTIONS SHALL BE PER SHELTER MANUFACTURERS WRITTEN INSTRUCTIONS. SEE DRAWING EE100 FOR GROUNDING DETAILS.
 - CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES THAT CONFORM TO THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL (GREEN BOOK) FOR SITES THAT ARE DISTURBED AND PADS NOT COMPLETED.
 - WWF 4 X 4 - W2.9 / W2.9 MAY BE USED INSTEAD OF REBAR OVER ALL POURED CONCRETE. THE WWF SHALL BE PLACED THE MIDDLE OF THE SLAB USING SUPPORTS. THE SHELTER CAN BE INSTALLED WHEN THE CONCRETE ACHIEVES 60% DESIGN STRENGTH.
 - SHELTER AND DISTURBED AREA SHALL BE WITHIN THE RIGHT-OF-WAY UNLESS AN EASEMENT IS OBTAINED.
 - SHELTER SHALL BE LOCATED SO IT WILL NOT OBSTRUCT VEHICLE SIGHT DISTANCE.
 - PAD SLOPE SHALL BE 2.08% MAXIMUM PERPENDICULAR TO THE ROADWAY.
 - PLACE PREMOLDED EXPANSION JOINT MATERIAL BETWEEN BACK OF CURB OR SIDEWALK AND PAD, SEE EXPANSION JOINT DETAIL.
 - FORM ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" ROUND.
 - FOR EXISTING GRASS STRIP BETWEEN SIDEWALK & CURB PROVIDE CONCRETE PAD ACROSS GRASS STRIP. SEE DETAIL 2, THIS SHEET.
 - GRADING OF SLOPES SHALL NOT EXCEED 2H:1V.
 - THE PAD SHALL BE GRADED SO RUNOFF FLOWS AWAY FROM IT. RUNOFF SHALL NEVER POND ON OR NEAR THE PAD.
 - SIDEWALKS SHALL HAVE A MAXIMUM OF 2.08% CROSS SLOPE.
 - 2010 ADA GUIDELINES: PARALLEL TO THE ROADWAY, THE SLOPE OF THE BUS STOP BOARDING & ALIGHTING AREA SHALL BE THE SAME AS THE ROADWAY, TO THE MAXIMUM EXTENT PRACTICABLE. PERPENDICULAR TO THE ROADWAY, THE SLOPE OF THE BUS STOP BOARDING AND ALIGHTING AREA SHALL NOT BE STEEPER THAN 1:48.
 - THE SHELTER SHALL BE TOLAR BUS SHELTER OR EQUIVALENT.

- MATERIALS:**
- CONCRETE: 4000E PSI PORTLAND CEMENT CONCRETE (F'C=4000 PSI)
 - EXPANSION JOINT FILLERS: PREFORMED TYPE, NON-BITUMINOUS; CLOSED CELL PLASTIC FOAM STRIPS, FLEXIBLE, RESILIENT, HAVING LOW WATER ABSORPTION, RESISTANT TO SOLVENTS AND CHEMICALS, NON-STAINING, AND EFFECTIVE AS A BACK-UP FOR COLD APPLIED SEALANTS.
 - GRADED AGGREGATE BASE: REFER TO GDOT SSCS SECTION 815.
 - STEEL BARS FOR CONCRETE REINFORCEMENT: REFER TO GDOT SSCS SECTION 853.2.01

NOTE:
GDOT REQUIRES 6' OF DISTANCE BETWEEN SHELTER, BENCH, ETC TO BACK OF CURB. FOR NON-GDOT MUNICIPALITIES, AN ABSOLUTE MINIMUM OF 3' FROM BUS AMENITY TO BACK OF CURB CAN BE USED ONLY TO AVOID RIGHT-OF-WAY ENCROACHMENT AND ACCEPTABLE BY LOCAL MUNICIPALITY. BUS AMENITIES MAY ALSO BE PLACED ON EXISTING SIDEWALKS WITHOUT BUILDING A PAD IF APPLICABLE.

REV.	DATE	BY	SUB.	APP.	DESCRIPTION	REV.	DATE	BY	SUB.	APP.	DESCRIPTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION, UNDER THE FEDERAL TRANSIT ACT, AS AMENDED, AND IN PART BY THE TAXES OF THE CITIZENS OF FULTON, DEKALB AND CLAYTON COUNTIES OF THE STATE OF GEORGIA.

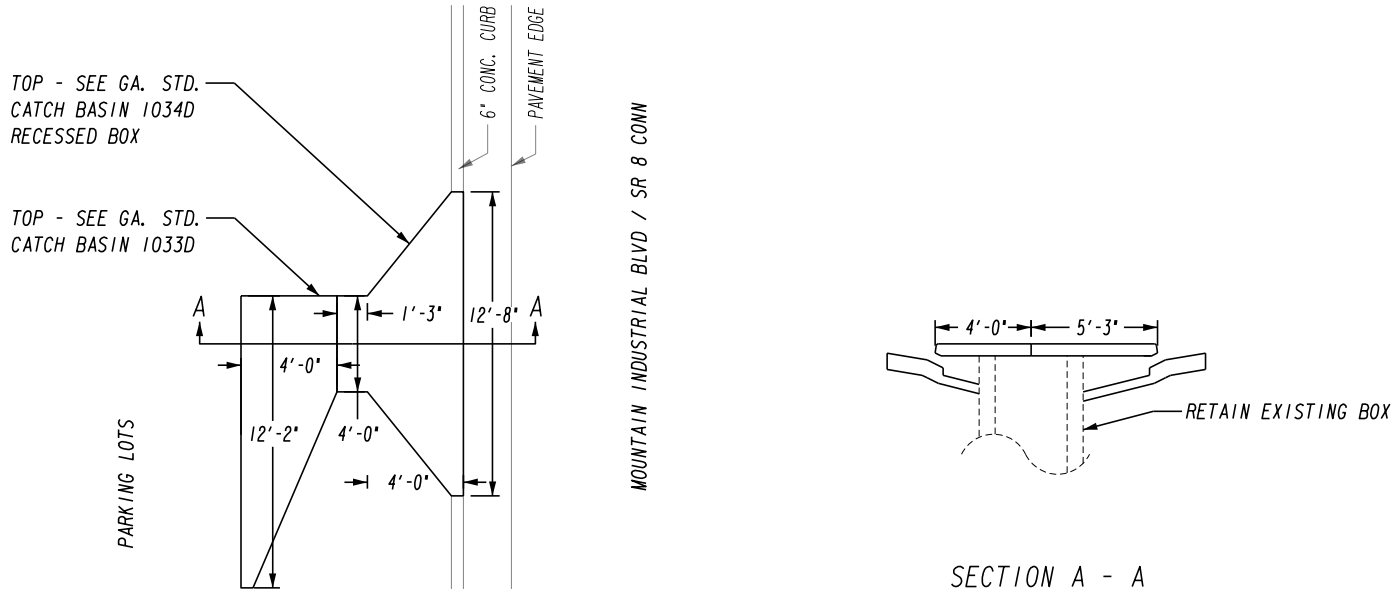
DESIGNED
A. WHITLOCK
DRAWN
D. MERCHANT
CHECKED
A. MOHAJER
IN CHARGE
A. MOHAJER
DATE

METROPOLITAN ATLANTA RAPID TRANSIT AUTHORITY
marta
SUBMITTED
APPROVED

SCALE NTS	CONTRACT PROPOSAL NUMBER
DRAWING NO. CT100	REV. 0
PAGE NO. XX	



REVISION DATES		SPECIAL CONSTRUCTION DETAIL	
		MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN AT HUGH HOWELL RD	
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VERIFIED:	DATE:		



PLAN

STRUCTURE C-2
1033D-1034D CATCH BASIN TOP

SECTION A - A

STRUCTURE C-2
CURB OPENINGS

(SEE GA STD. 1033D & 1034D)

SPECIAL DETAIL FOR DRAINAGE STRUCTURE C-2

- NOTE:
- 1. FOR ADDITIONAL CONSTRUCTION DETAILS, SEE REFERENCED GDOT STANDARDS (1033D & 1034D)
 - 2. PAYMENT FOR THE SPECIAL C-2 TOP AND ADJUSTMENT OF EXISTING BOX TO GRADE SHALL BE MADE AS ITEM 611-3000 RECONSTRUCT CATCH BASIN, GROUP 1. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THE CONSTRUCTION OF THE SPECIAL TOP REINFORCED CONCRETE SLAB.



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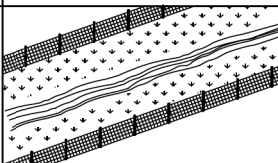
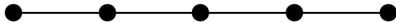
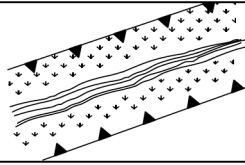
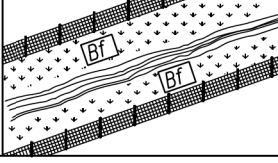
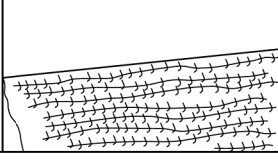
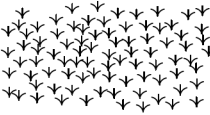
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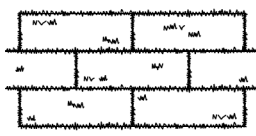
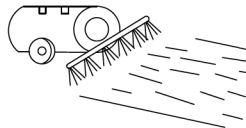
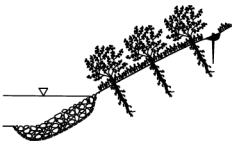
SPECIAL CONSTRUCTION DETAIL

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AT HUGH HOWELL RD

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38-0002

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

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	SYMBOL Ds3		
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	PATTERN Ds4		
F1-Co	FLOCCULANTS COAGULANTS SECTION 163, 700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
	SYMBOL F1-Co POLYACRYLAMIDE		
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
	PATTERN Sb		

NOTE:

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



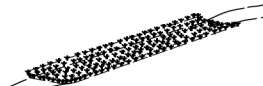
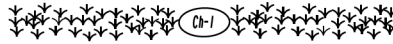
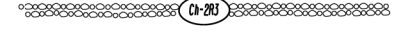
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT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

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

NOTE:

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

GDOT DETAIL EC-L2



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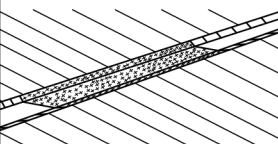
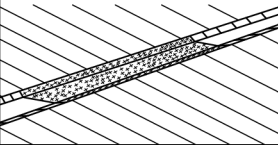
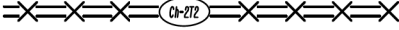
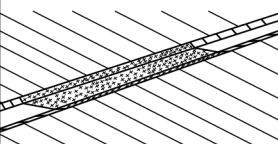
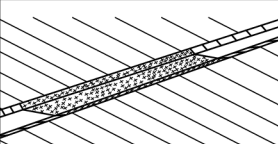
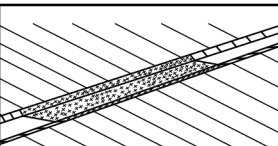
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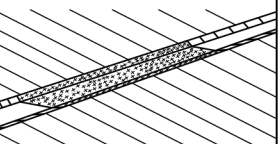
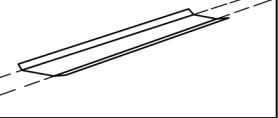
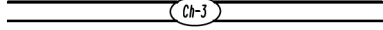
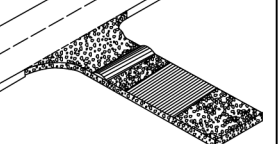
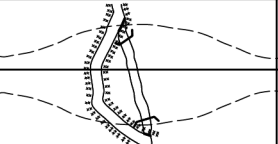
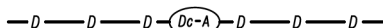
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE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

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.
	LINE CODE		"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.
	LINE CODE		"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I.E. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS.
	SYMBOL		ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps.
	LINE CODE		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.

NOTE:

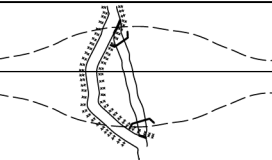
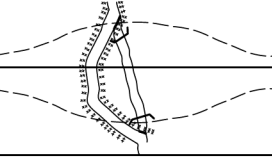
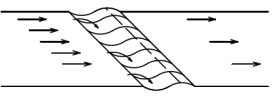
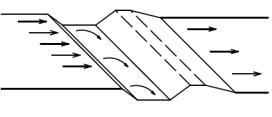
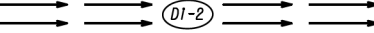
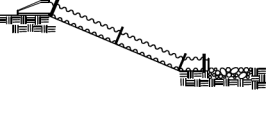
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S,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

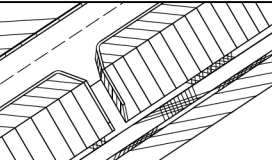
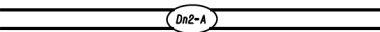
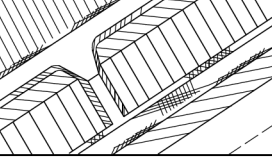
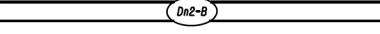
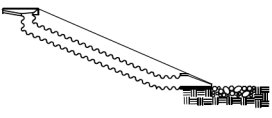
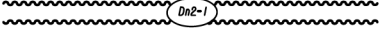
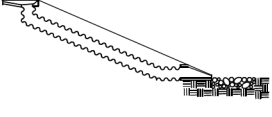
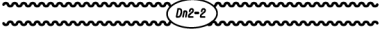


LOWE
ENGINEERS

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REVISION DATES			EROSION CONTROL LEGEND			
3/2/2017			MOUNTAIN INDUSTRIAL BLVD AT HUGH HOWELL RD			
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			BACKCHECKED:		DATE:	
			CORRECTED:		DATE:	
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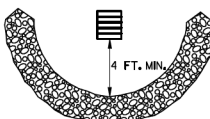
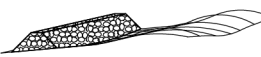
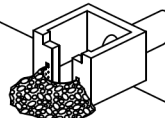
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps.
	LINE CODE —D—D—D—Dc-B—D—D—D—		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps.
	LINE CODE —D—D—D—Dc-C—D—D—D—		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
D1-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS 'Dn1' OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE 		
D1-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP.
	LINE CODE 		RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'.
	LINE CODE 		THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

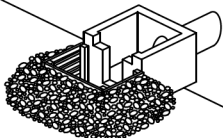
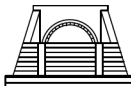
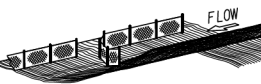
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE 'A' IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL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

NOTE:

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

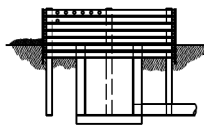
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3/2/2017			EROSION CONTROL LEGEND			
			MOUNTAIN INDUSTRIAL BLVD			
			AT HUGH HOWELL RD			
			CHECKED:		DATE:	DRAWING No.
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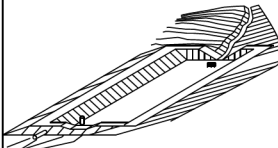
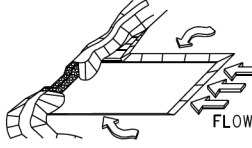
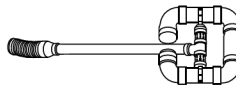
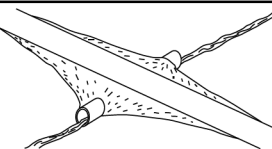
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL 		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
	SYMBOL 		
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM. AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE 		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN 		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL 		

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

NOTE:

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

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

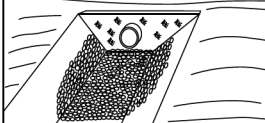
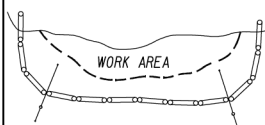
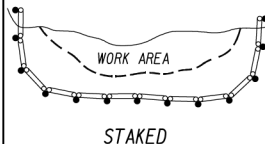
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE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

NOTE:

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

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

REVISION DATES			EROSION CONTROL LEGEND			
3/2/2017			MOUNTAIN INDUSTRIAL BLVD AT HUGH HOWELL RD			
11/28/2018						
			CHECKED:		DATE:	DRAWING No.
			BACKCHECKED:		DATE:	52-0006
			CORRECTED:		DATE:	
			VERIFIED:		DATE:	

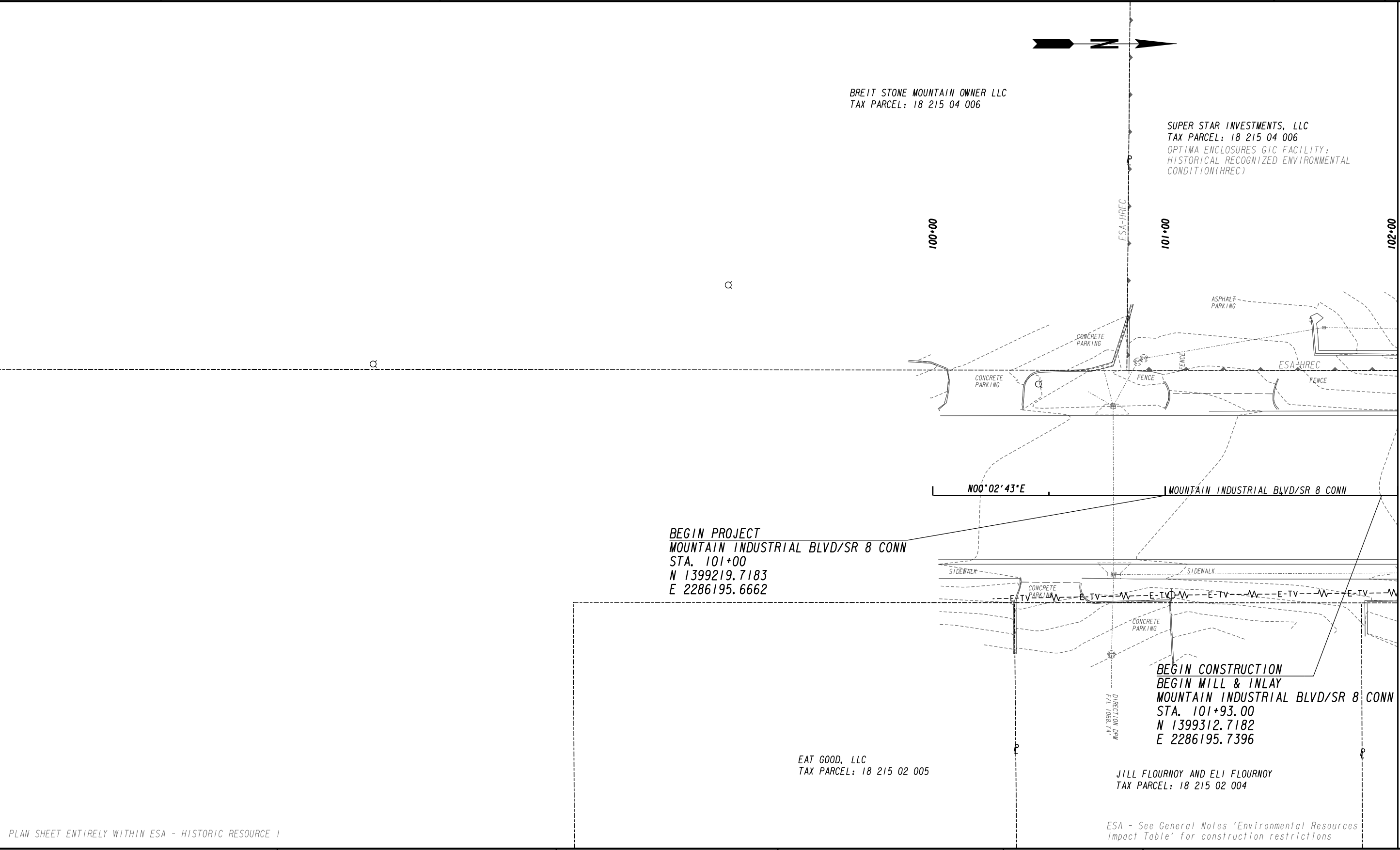
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE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

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

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

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



PROPERTY AND EXISTING R/W LINE

REQUIRED R/W LINE

CONSTRUCTION LIMITS

EASEMENT FOR CONSTR

& MAINTENANCE OF SLOPES

EASEMENT FOR CONSTR OF SLOPES

EASEMENT FOR CONSTR OF DRIVES

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---C---F---

BEGIN LIMIT OF ACCESS.....BLA

END LIMIT OF ACCESS.....ELA

REQ'D LIMIT OF ACCESS

REQ'D LIMIT OF ACCESS & R/W

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA

(SEE ERIT TABLE)

LOWE

ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328

PHONE 770.857.8400 FAX 770.857.8401

SCALE IN FEET

0

20

40

80

REVISION DATES

BMP LOCATION DETAILS

INITIAL STAGE

MOUNTAIN INDUSTRIAL BLVD

AT HUGH HOWELL RD

CHECKED:

BACKCHECKED:

CORRECTED:

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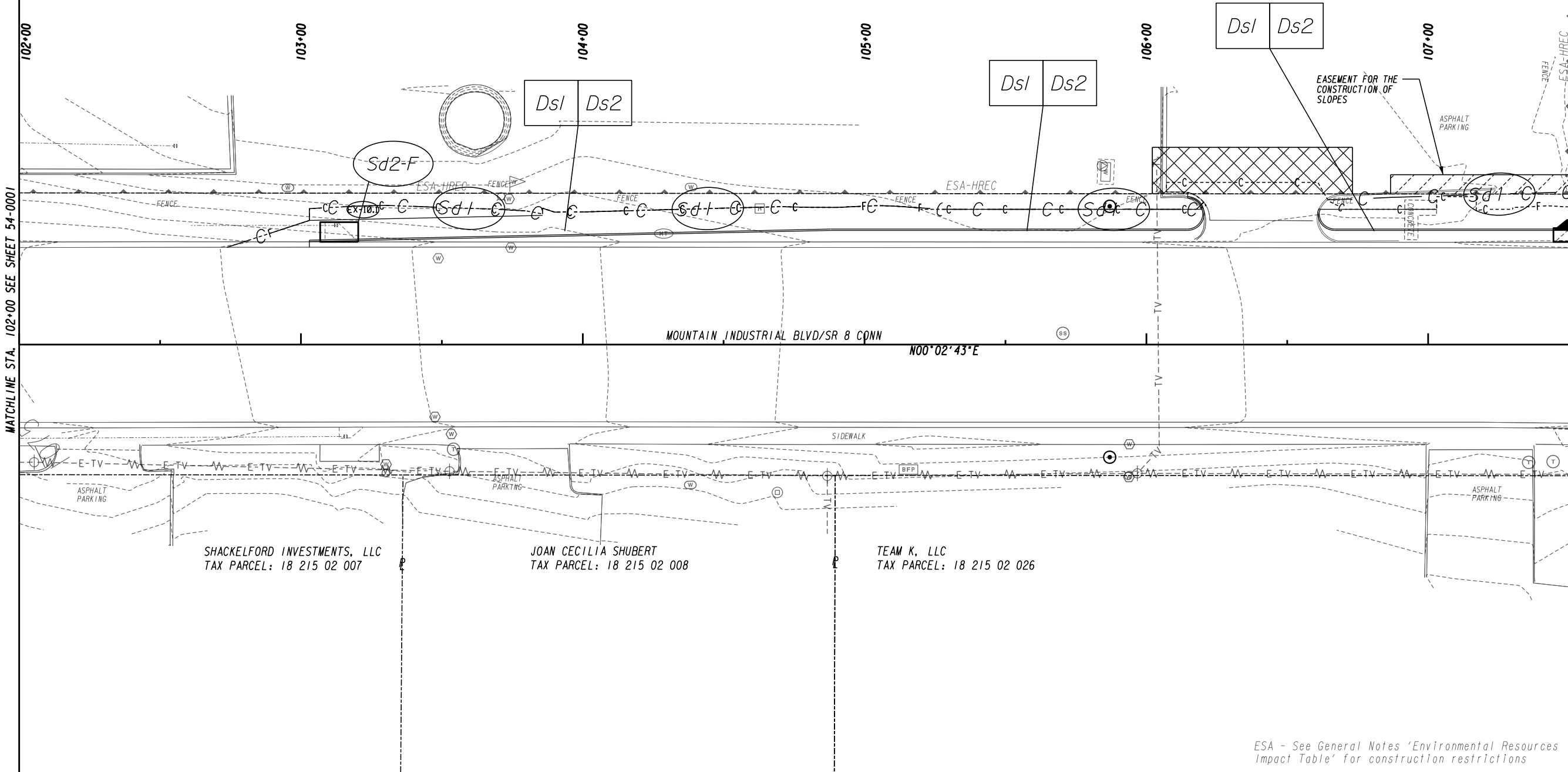
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54-0001

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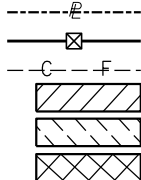


SUPER STAR INVESTMENTS, LLC
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HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION(HREC)

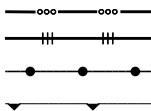


ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions

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

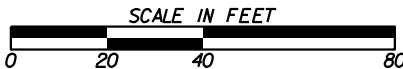


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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



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ENGINEERS

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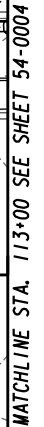
REVISION DATES

BMP LOCATION DETAILS

INITIAL STAGE
MOUNTAIN INDUSTRIAL BLVD
AT HUGH HOWELL RD

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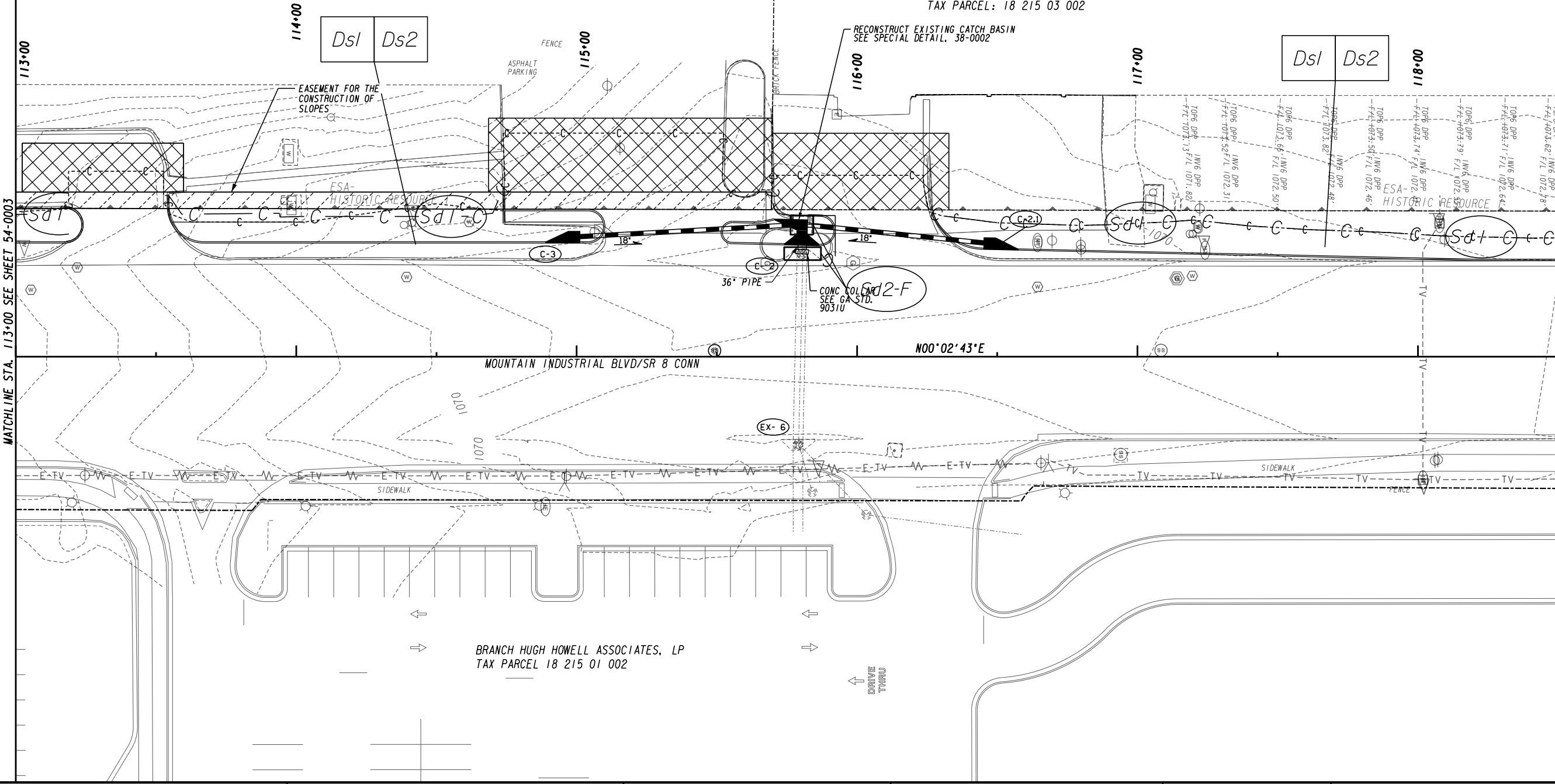
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ESA - See General Notes 'Environmental Resources
Impact Table' for construction restrictions



TREA SP IV TUCKER, GA LLC
TAX PARCEL: 18 215 003 006

THE MOUNTAIN INDUSTRIAL TRACT, LLC
TAX PARCEL: 18 215 03 002



WATCHLINE STA. 113+00 SEE SHEET 54-0003

WATCHLINE STA. 115+50 SEE SHEET 54-0005

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

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

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LOWE ENGINEERS
990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

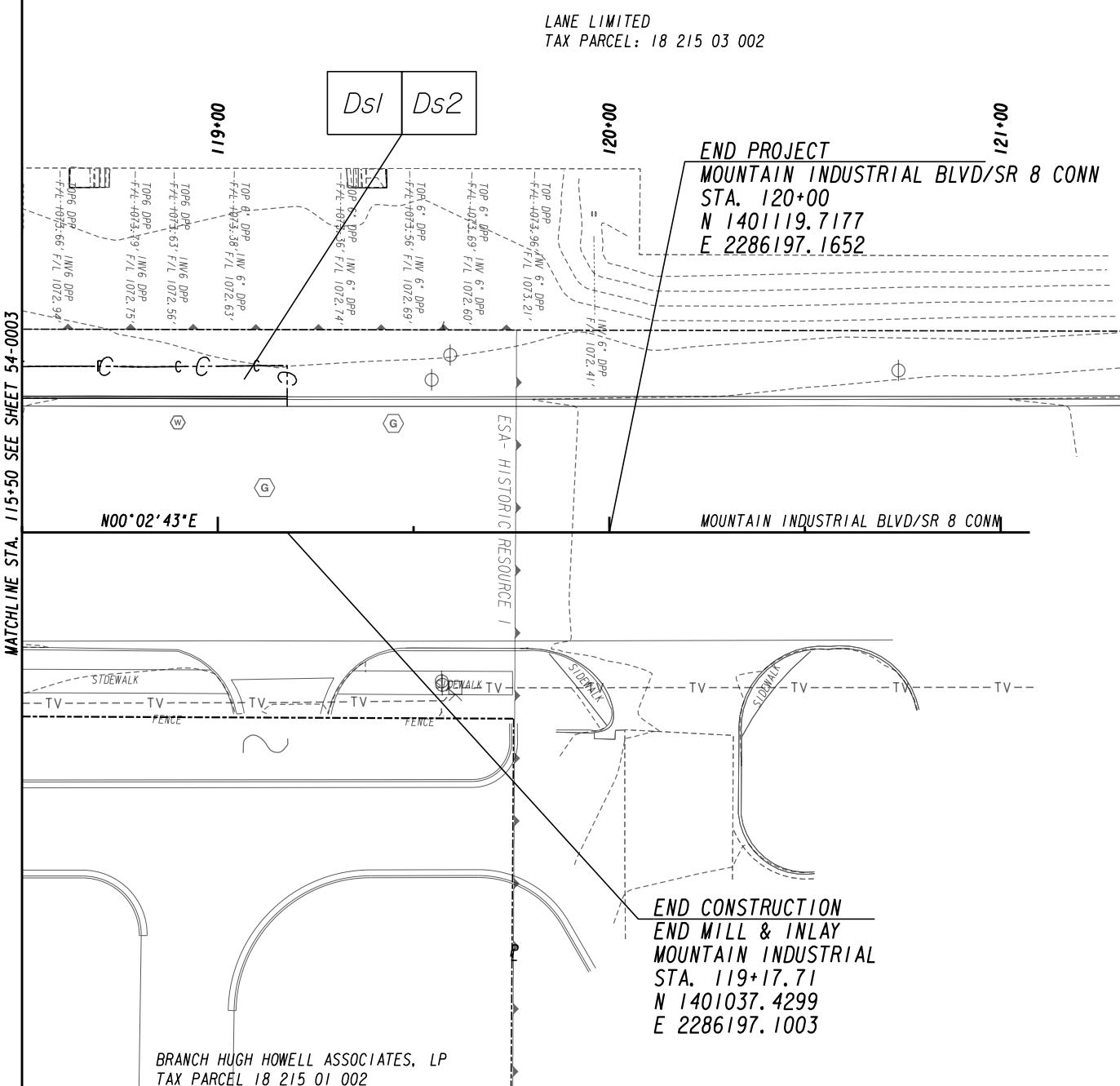
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REVISION DATES

NO.	DATE	DESCRIPTION

BMP LOCATION DETAILS
INITIAL STAGE
MOUNTAIN INDUSTRIAL BLVD
AT HUGH HOWELL RD

CHECKED:	DATE:	DRAWING No.
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VERIFIED:	DATE:	



END PROJECT
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
STA. 120+00
N 1401119.7177
E 2286197.1652

END CONSTRUCTION
END MILL & INLAY
MOUNTAIN INDUSTRIAL
STA. 119+17.71
N 1401037.4299
E 2286197.1003

BRANCH HUGH HOWELL ASSOCIATES, LP
TAX PARCEL 18 215 01 002

ESA - See General Notes 'Environmental Resources
Impact Table' for construction restrictions

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

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

LOWE
ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
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SCALE IN FEET

REVISION DATES

BMP LOCATION DETAILS
INITIAL STAGE
MOUNTAIN INDUSTRIAL BLVD
AT HUGH HOWELL RD

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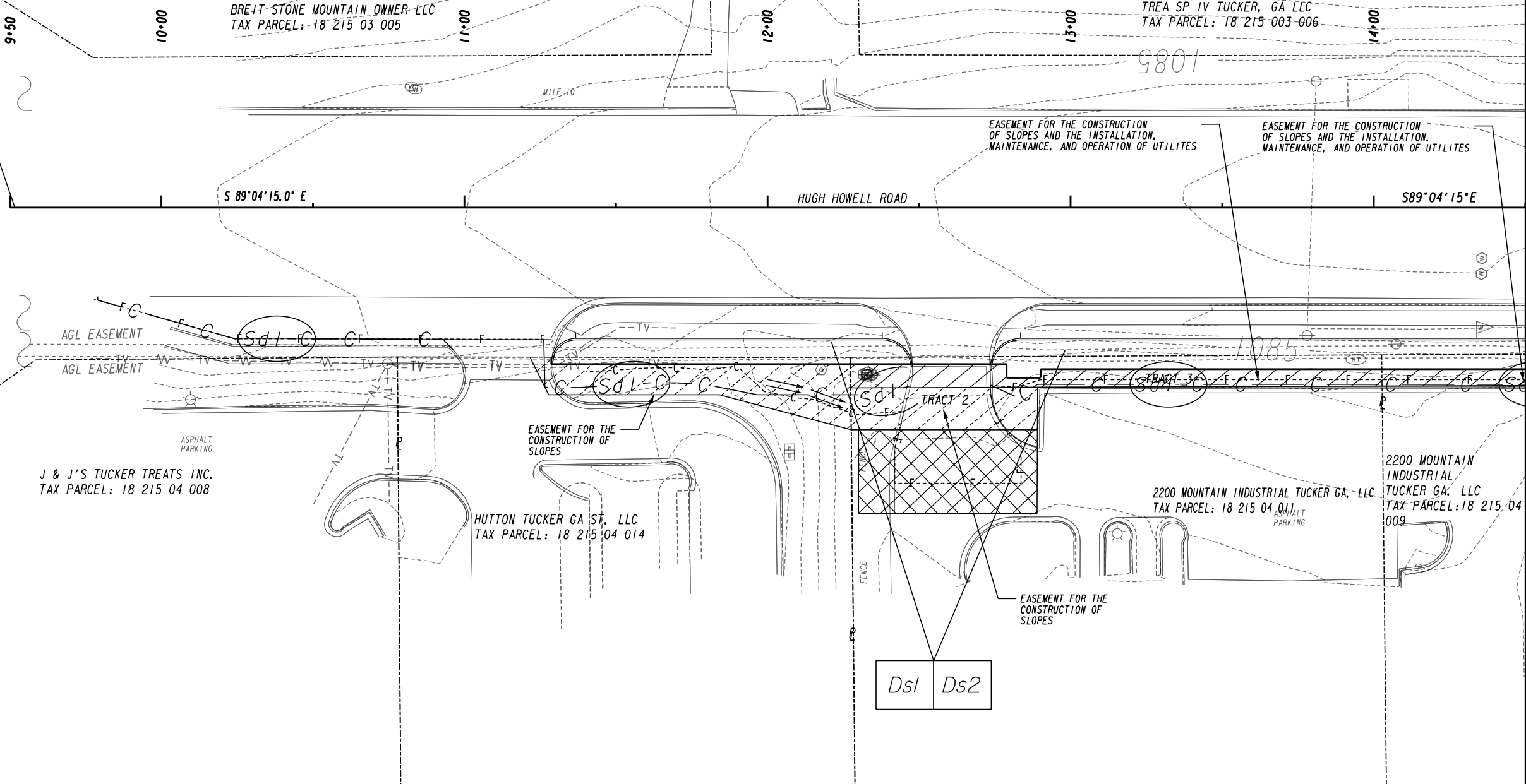
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LIMIT OF CONSTRUCTION
HUGH HOWELL RD
STA. 9+51.66

ESA - See General Notes 'Environmental Resources
Impact Table' for construction restrictions

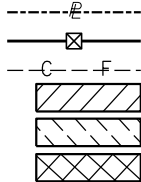


ESA- HISTORIC RESOURCE I



MATCHLINE STA. 14+50 SEE SHEET 54-0003

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



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

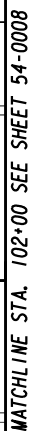
LOWE
ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401



REVISION DATES

BMP LOCATION DETAILS			
INITIAL STAGE MOUNTAIN INDUSTRIAL BLVD AT HUGH HOWELL RD			
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ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions

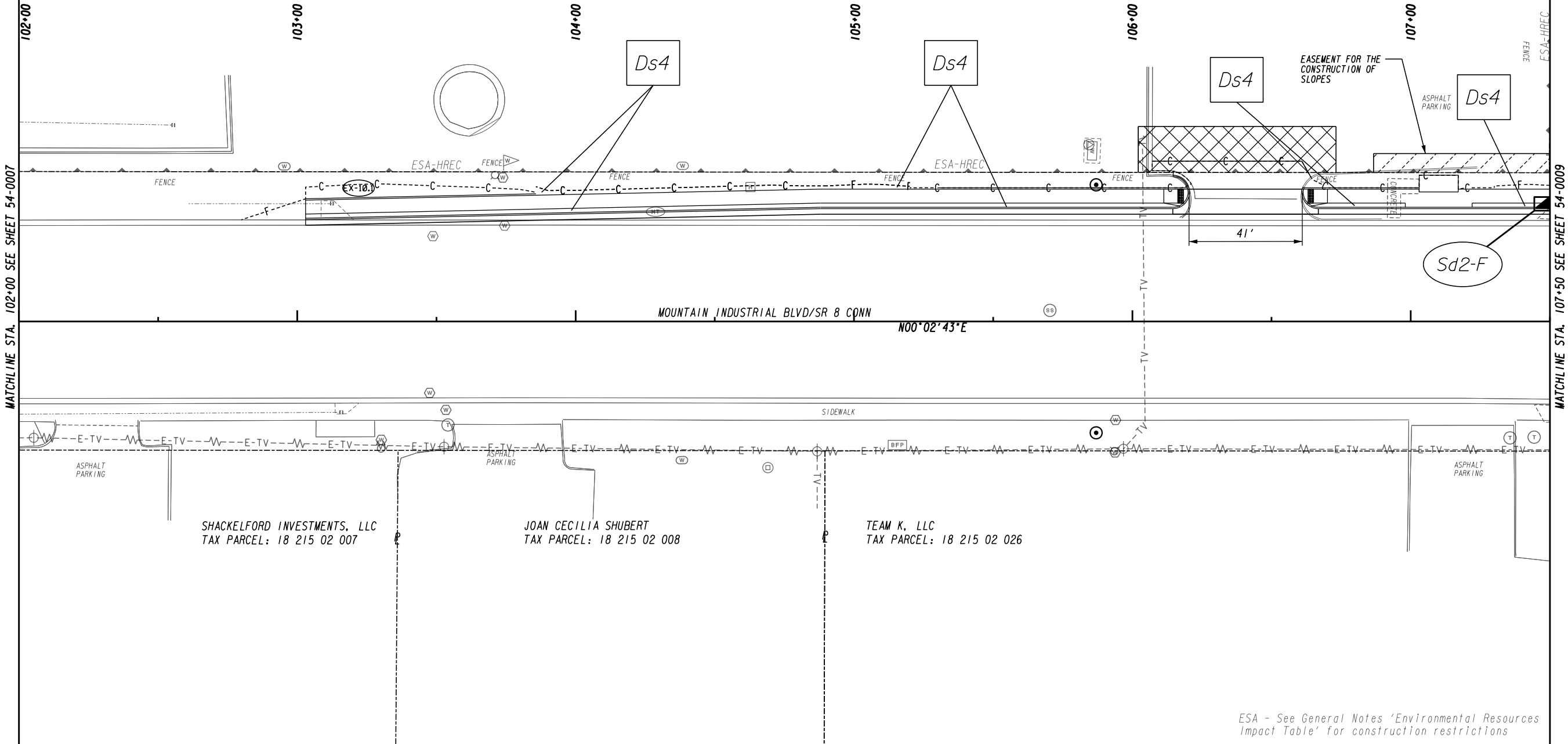
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PHONE 770.857.8400 FAX 770.857.8401

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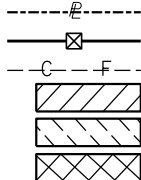


SUPER STAR INVESTMENTS, LLC
TAX PARCEL: 18 215 04 001
OPTIMA ENCLOSURES GIC FACILITY:
HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION(HREC)

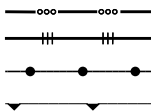


ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions

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



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



LOWE
ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

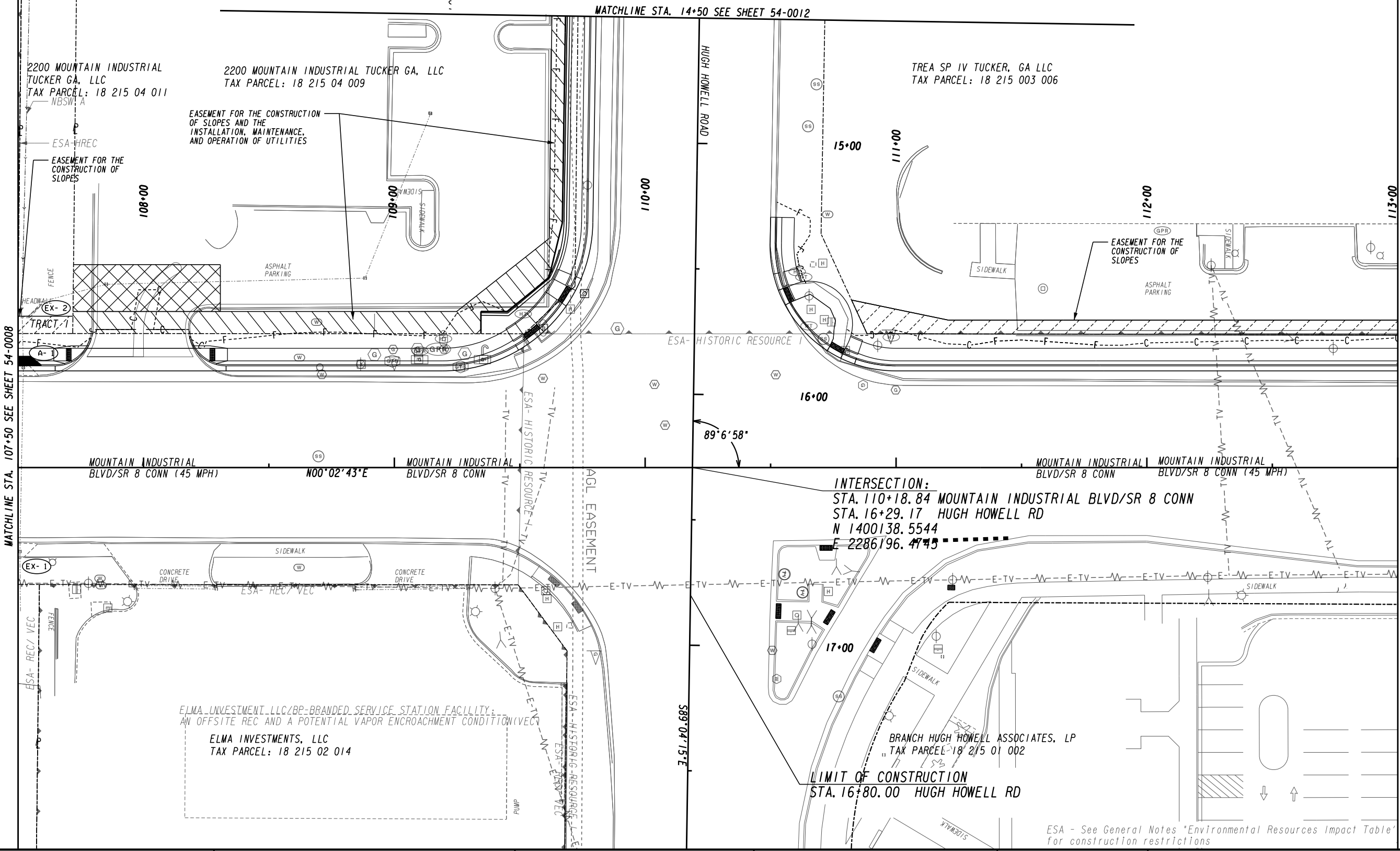


REVISION DATES

BMP LOCATION DETAILS
INTERMEDIATE/FINAL STAGE
MOUNTAIN INDUSTRIAL BLVD
AT HUGH HOWELL RD

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

54-0008



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

---E---

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

LOWE ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

SCALE IN FEET

0

20

40

80

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE/FINAL STAGE
MOUNTAIN INDUSTRIAL BLVD
AT HUGH HOWELL RD

CHECKED: DATE: DRAWING No.

BACKCHECKED: DATE:

CORRECTED: DATE:

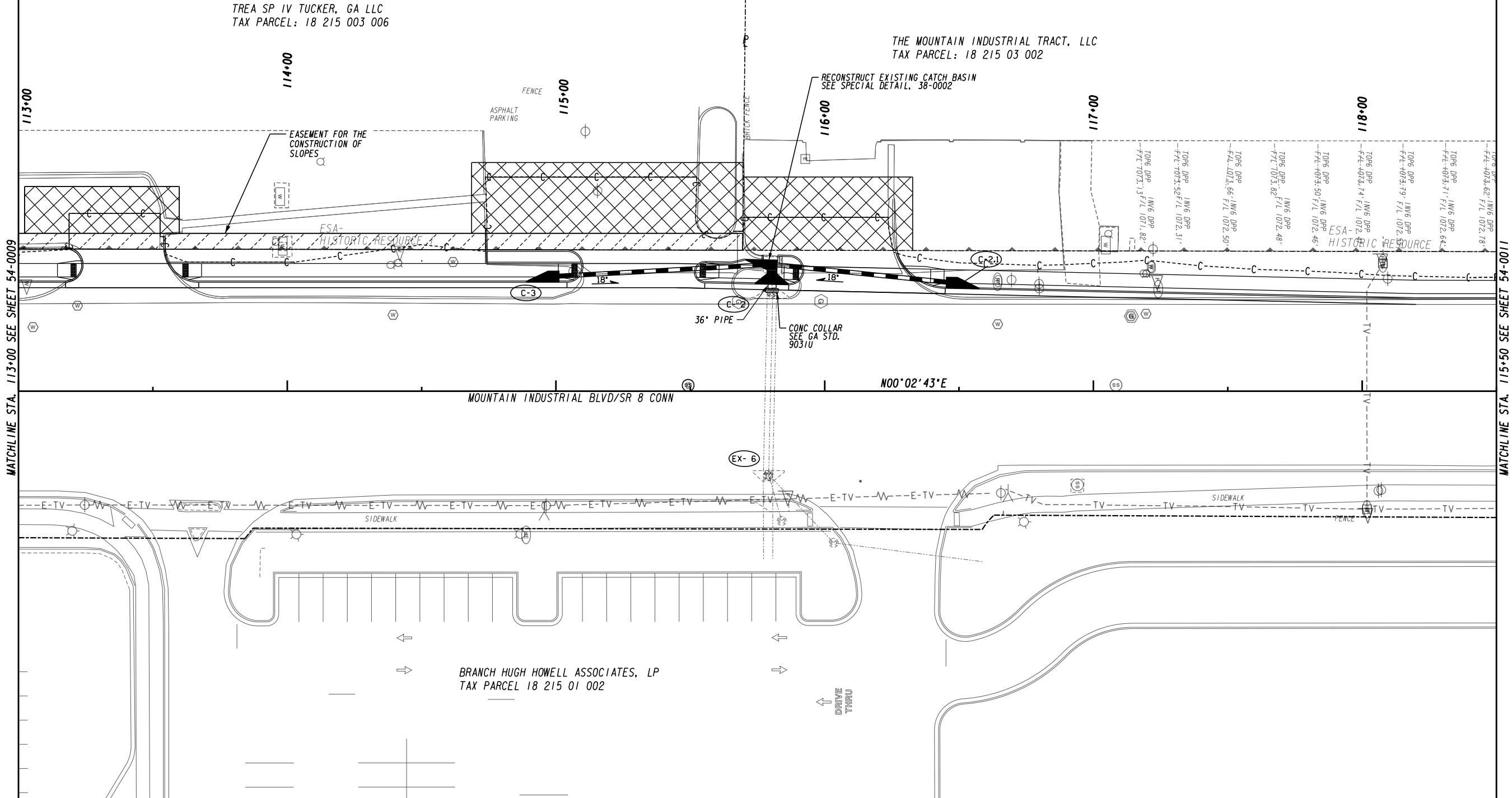
VERIFIED: DATE:

54-0009

10/23/2015 GPLN

ESA - See General Notes 'Environmental Resources
Impact Table' for construction restrictions

➔ N ➔



PROPERTY AND EXISTING R/W LINE

REQUIRED R/W LINE

CONSTRUCTION LIMITS

EASEMENT FOR CONSTR

& MAINTENANCE OF SLOPES

EASEMENT FOR CONSTR OF SLOPES

EASEMENT FOR CONSTR OF DRIVES

---E---

---C---F---

BEGIN LIMIT OF ACCESS.....BLA

END LIMIT OF ACCESS.....ELA

REQ'D LIMIT OF ACCESS

REQ'D LIMIT OF ACCESS & R/W

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA

(SEE ERIT TABLE)

LOWE

ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328

PHONE 770.857.8400 FAX 770.857.8401

SCALE IN FEET

REVISION DATES

NO.	DATE	DESCRIPTION

BMP LOCATION DETAILS

INTERMEDIATE/FINAL STAGE

MOUNTAIN INDUSTRIAL BLVD

AT HUGH HOWELL RD

CHECKED: _____

BACKCHECKED: _____

CORRECTED: _____

VERIFIED: _____

DATE: _____

DATE: _____

DATE: _____

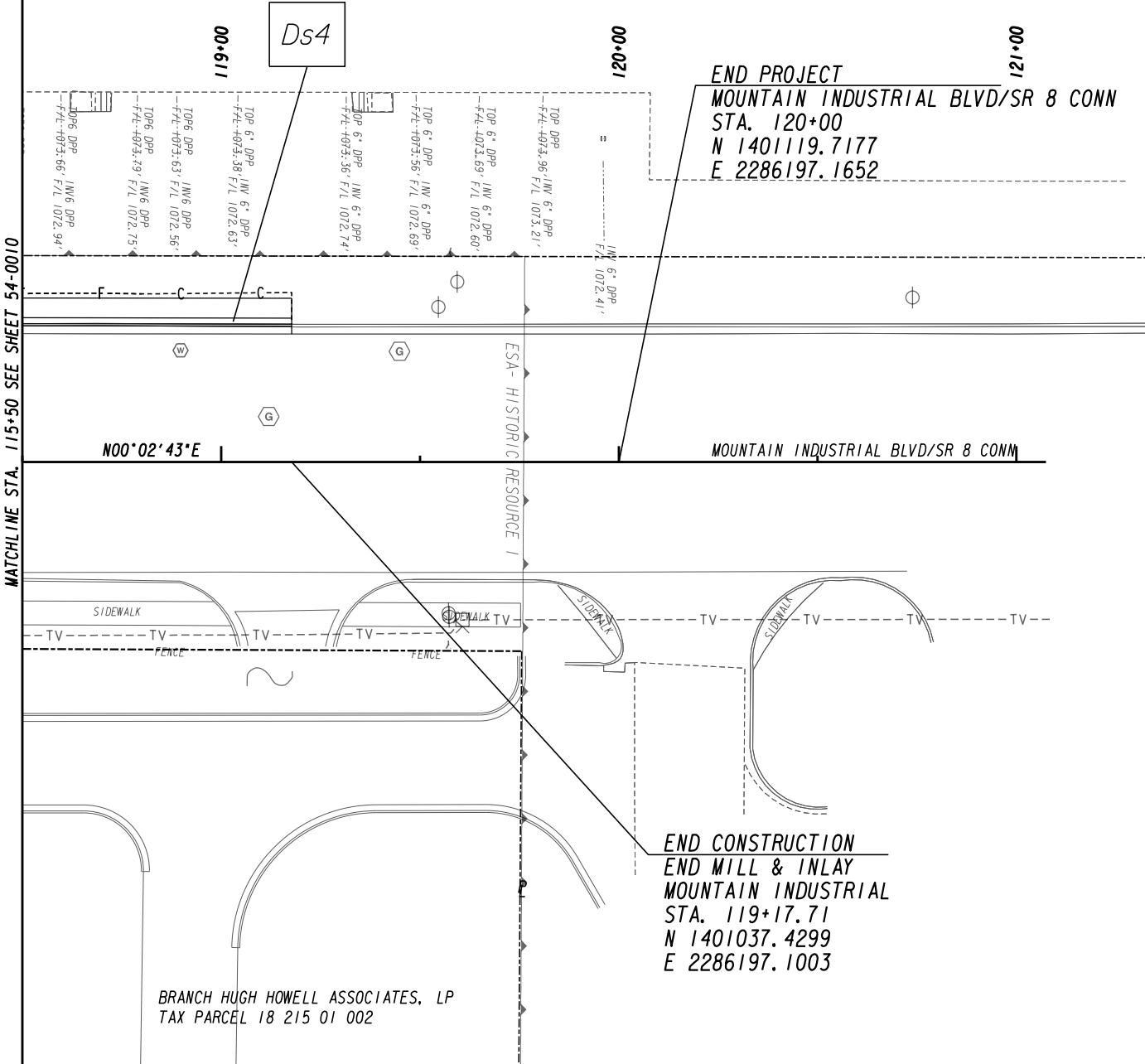
DATE: _____

DRAWING No.

54-0010



LANE LIMITED
TAX PARCEL: 18 215 03 002



ESA - See General Notes 'Environmental Resources
Impact Table' for construction restrictions

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

---E---

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

LOWE ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

SCALE IN FEET

0

20

40

80

REVISION DATES

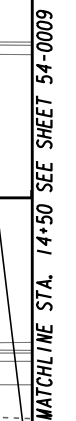
BMP LOCATION DETAILS
INTERMEDIATE/FINAL STAGE
MOUNTAIN INDUSTRIAL BLVD
AT HUGH HOWELL RD

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

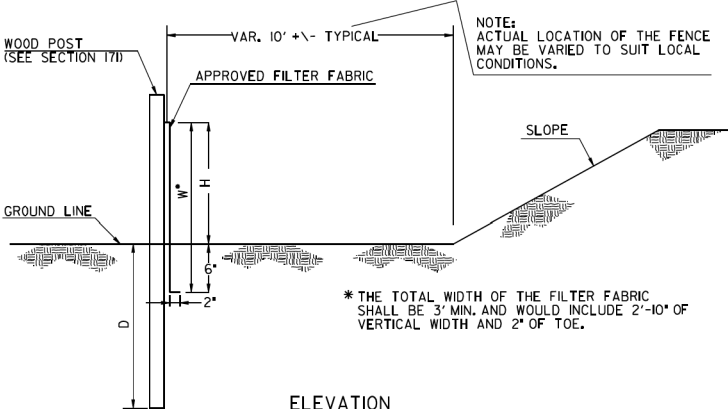
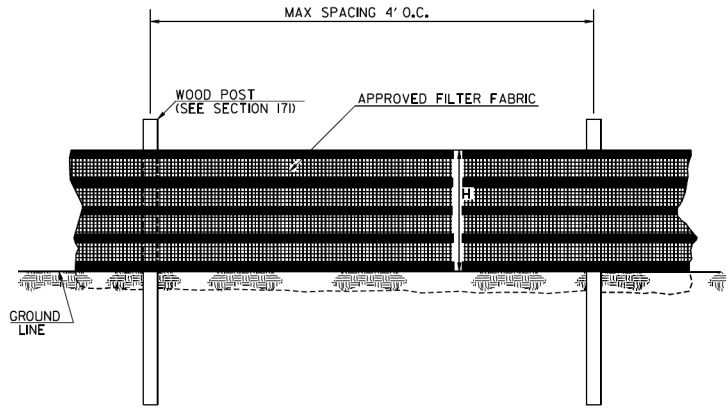
54-0011

10/23/2015

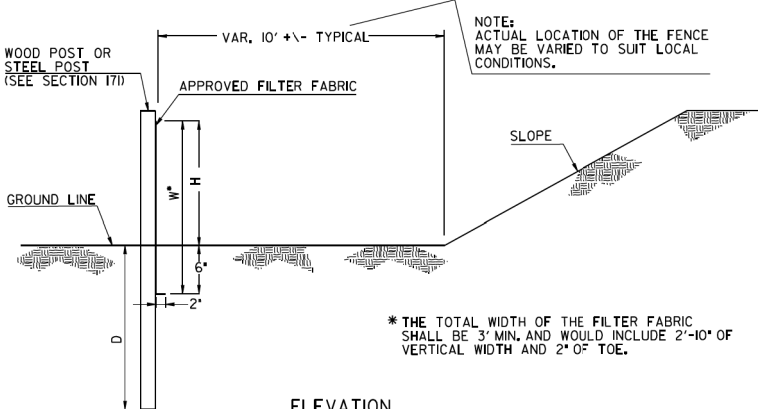
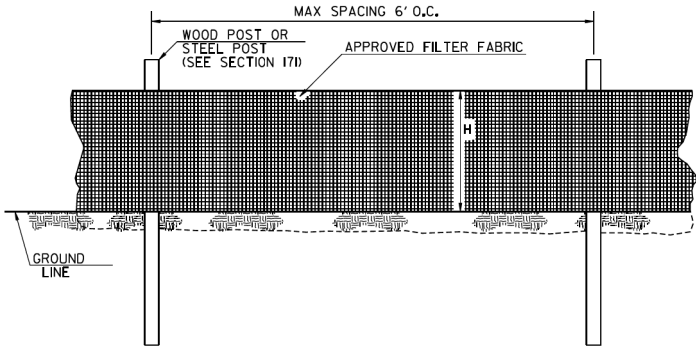
GPLN



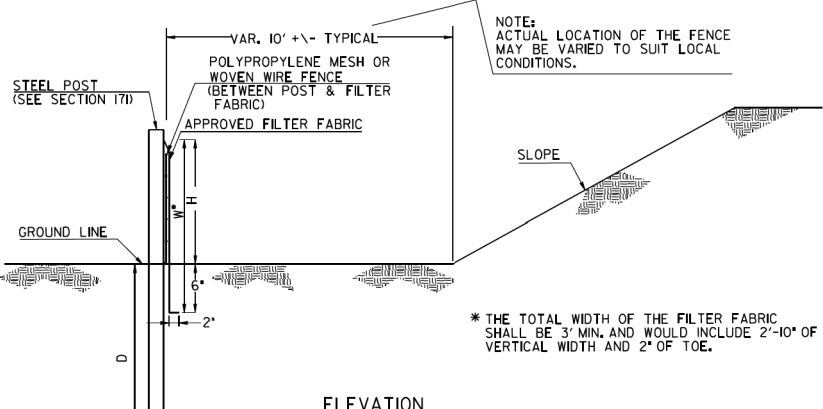
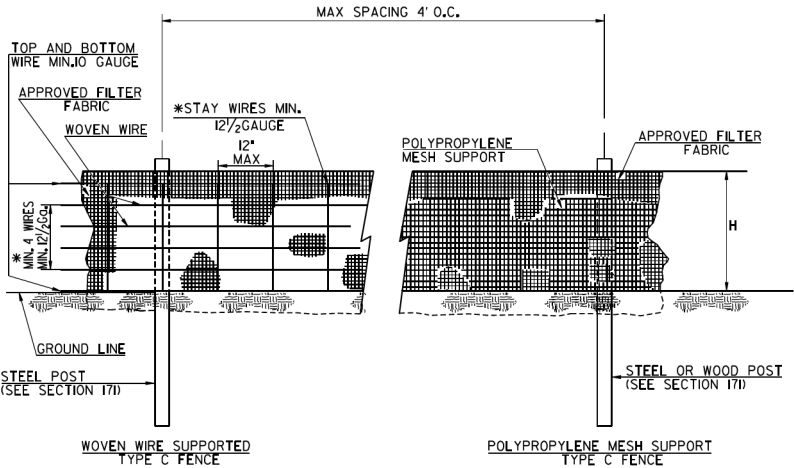
CHECKED:	DATE:	DRAWING No. 54-0012
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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



SINGLE ROW TYPE A SILT FENCE

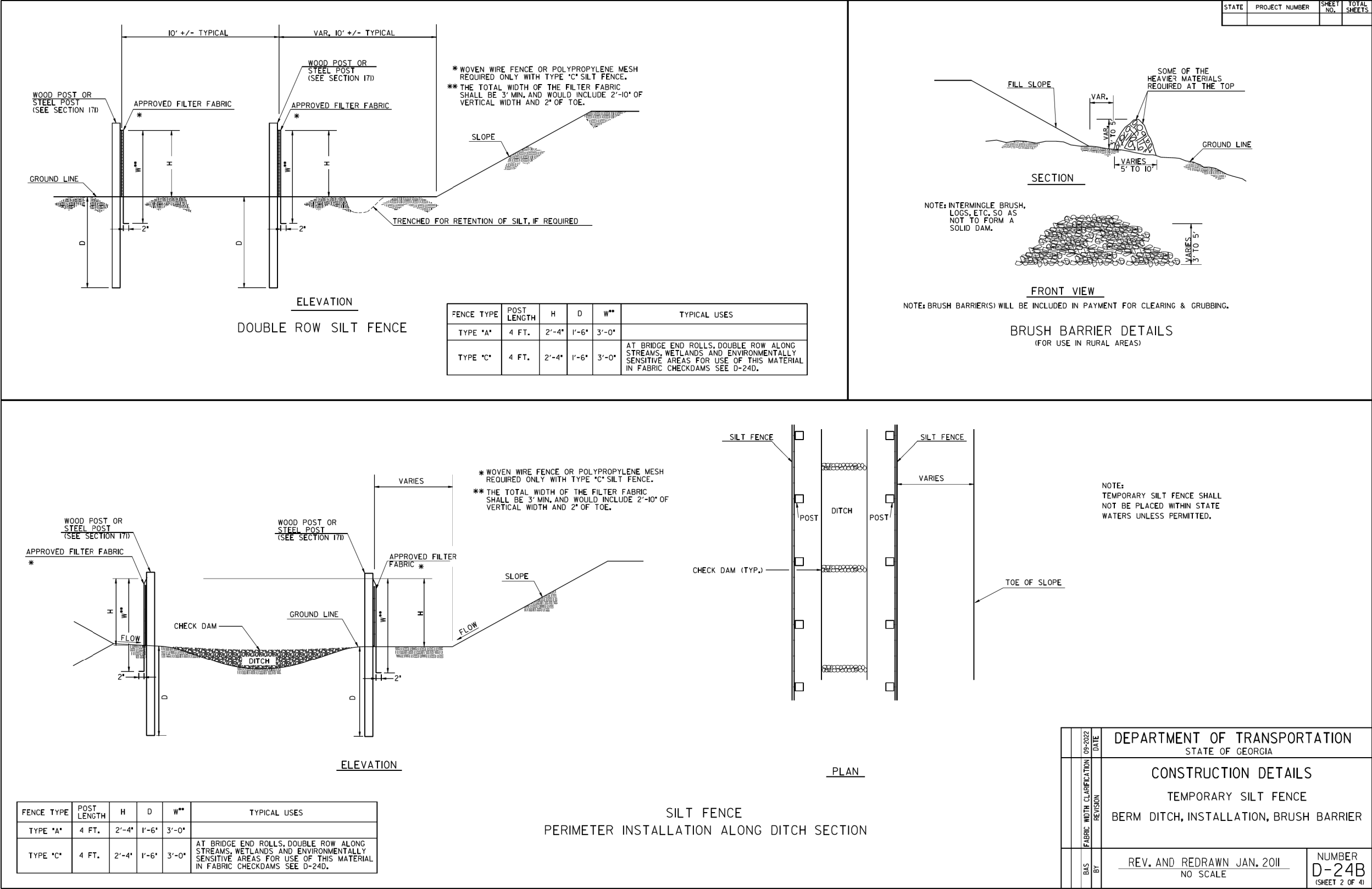


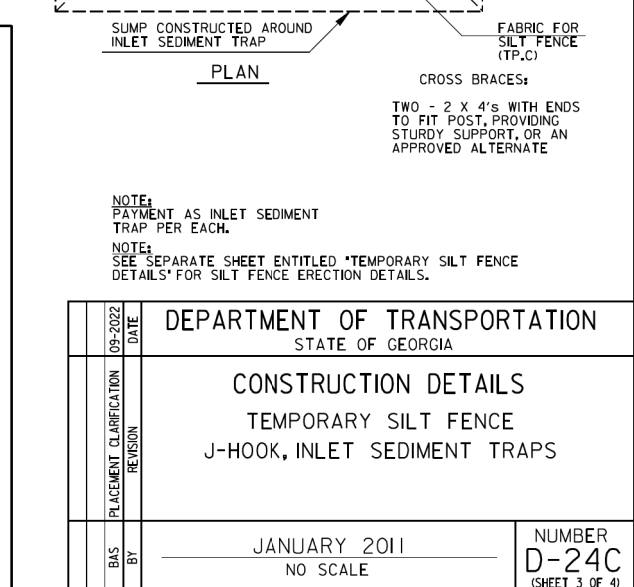
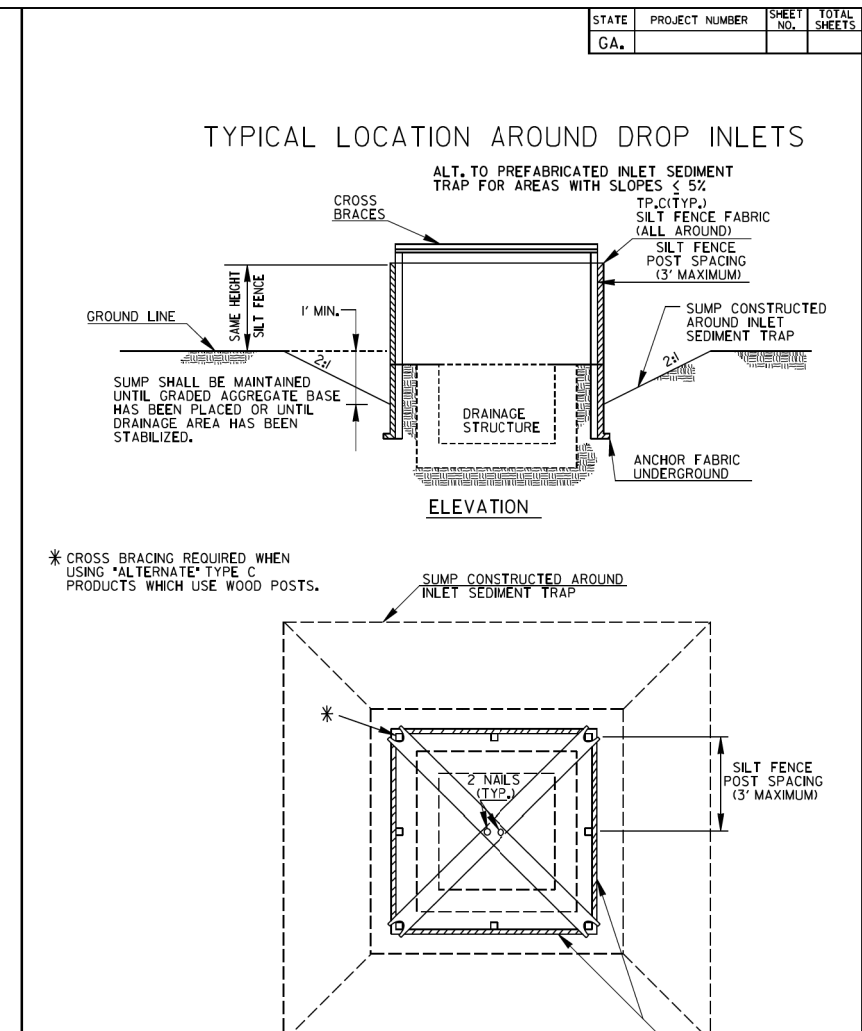
SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT OR POLYPROPYLENE MESH SUPPORT

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

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

			09-2022	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
			ADDED HIGH TENSILE POLYPROPYLENE INTEGRATED FABRIC	REVISION	CONSTRUCTION DETAIL
			AL	BY	TEMPORARY SILT FENCE
					JANUARY 2011 NO SCALE
					NUMBER D-24A 1 OF 4





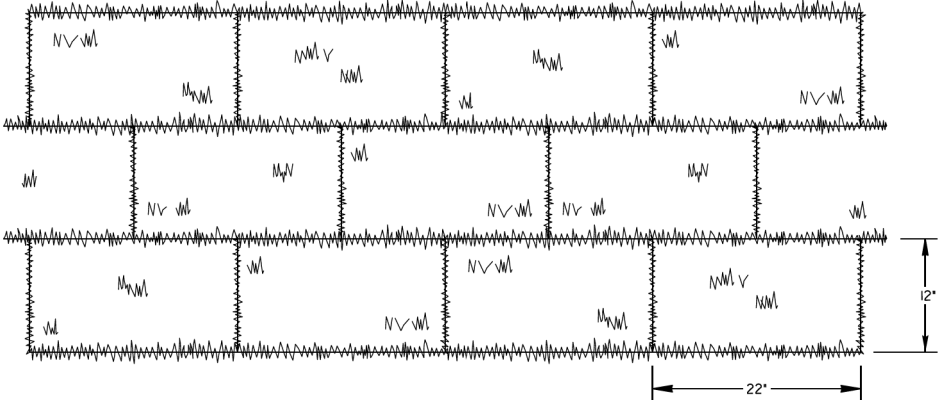
STATE
GA.

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS

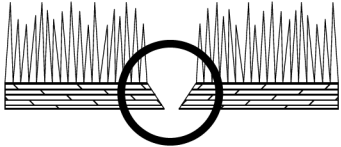
SOD LAYOUT



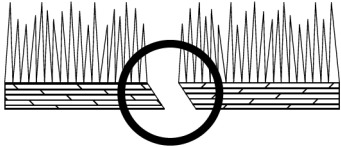
NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 21" WIDE BY 52" LONG ROLLS.

ABUTTING SOD

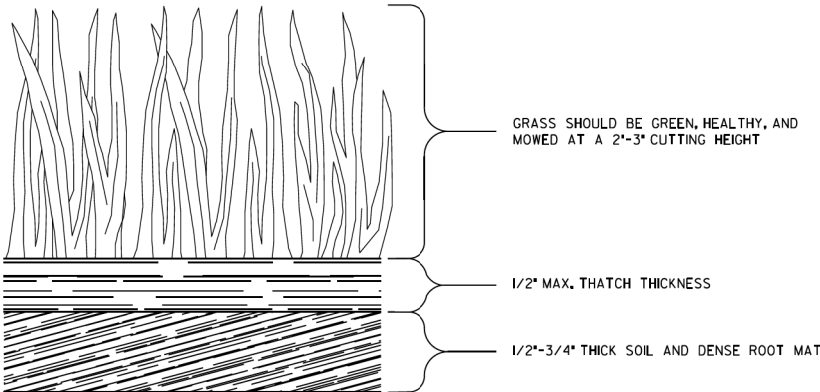
INCORRECT BUTTING



CORRECT BUTTING



SOD APPEARANCE



GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO 12"Wx22"L BLOCKS OR 21"Wx52"L ROLLS.

2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.

3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.

4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 2:1 OR ANY OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 8" LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.

5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.

7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

PAY ITEM:
700-9300

SOD (\$Y)

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	CONSTRUCTION DETAILS	
			SOD INSTALLATION	
			NO SCALE	
			4-22-2016	
	BY	DESIGNED DRAWN TRACED CHECKED	DLE _____ _____ _____	NUMBER D-54

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

RIGHT OF WAY OF PROPOSED

INTERSECTION IMPROVEMENTS

MOUNTAIN INDUSTRIAL BOULEVARD/SR 8 CONN

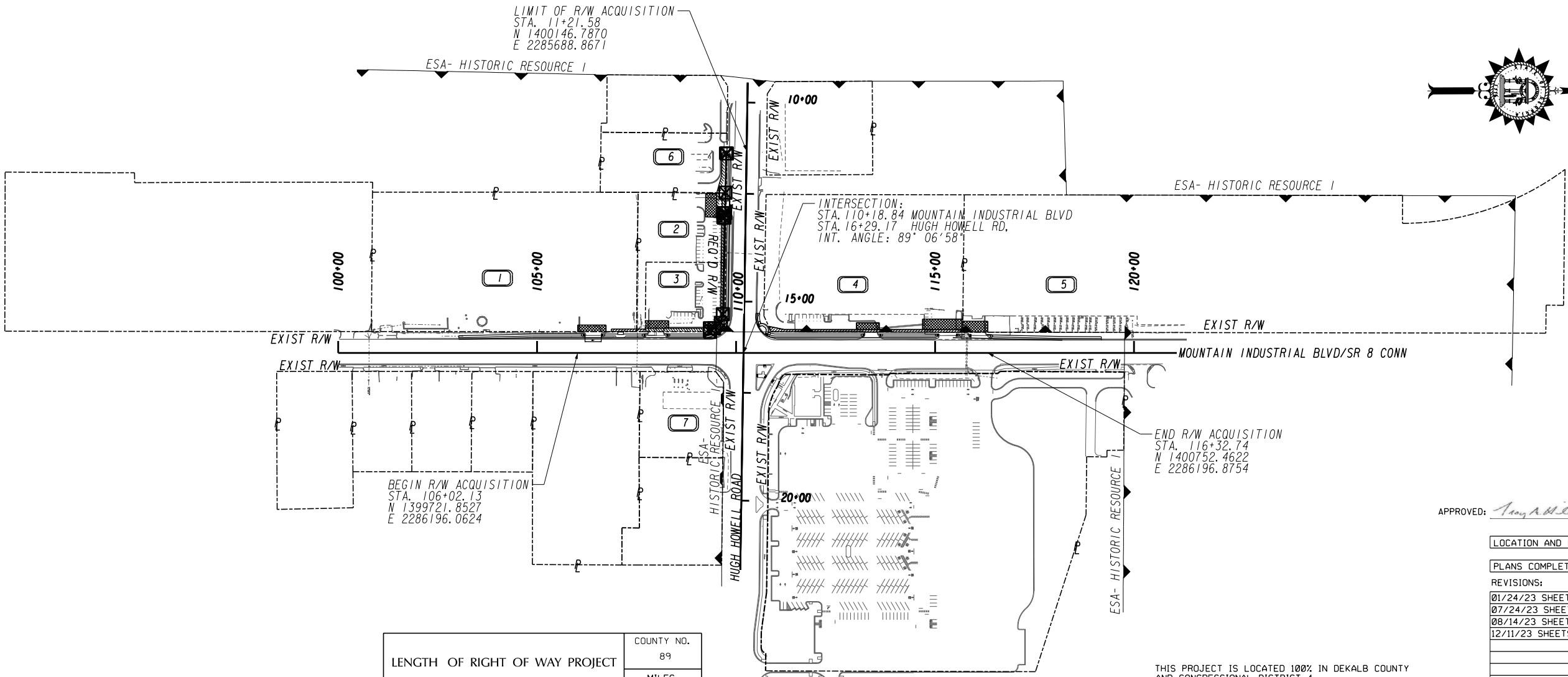
AT HUGH HOWELL ROAD

CONVENTIONAL SIGNS	
LAND LOT LINE	-----
PROPERTY LINE	-----
RIGHT OF WAY LINE	EXISTING.....
	REQUIRED.....
	EXISTING LIMIT OF ACCESS.....
	REQUIRED LIMIT OF ACCESS.....
	EXISTING LIMIT OF ACCESS & R/W.....
	REQUIRED LIMIT OF ACCESS & R/W.....
FENCE.....	-----



NOTE: THE COORDINATES LISTED ARE WEST ZONE
GRID COORDINATES BASED ON THE GA. STATE PLANE
COORDINATE SYSTEM OF 1984.
HORIZONTAL DATUM : NAD 1983 HARN
VERTICAL DATUM : NAVD 1988

FEDERAL ROUTE No.: N/A
STATE ROUTE No.: 8 CONN
P.I. No.: 0015216



PLANS PREPARED BY
LOWE ENGINEERS
990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

UNDER THE SUPERVISION OF
RICHARD J. MEEHAN
PROJECT MANAGER
LOWE ENGINEERS

APPROVED: *Tracy A. Hise* 11/18/2022
DATE

LOCATION AND DESIGN APPROVAL DATE: 09/15/2022

PLANS COMPLETED DATE: 11/07/2022

REVISIONS:

01/24/23 SHEETS 1, 3, 4, 5, 6, 8
07/24/23 SHEETS 1, 2, 4, 5, 6, 8
08/14/23 SHEETS 1, 4, 5
12/11/23 SHEETS 1, 4, 5, 6

DRAWING No.

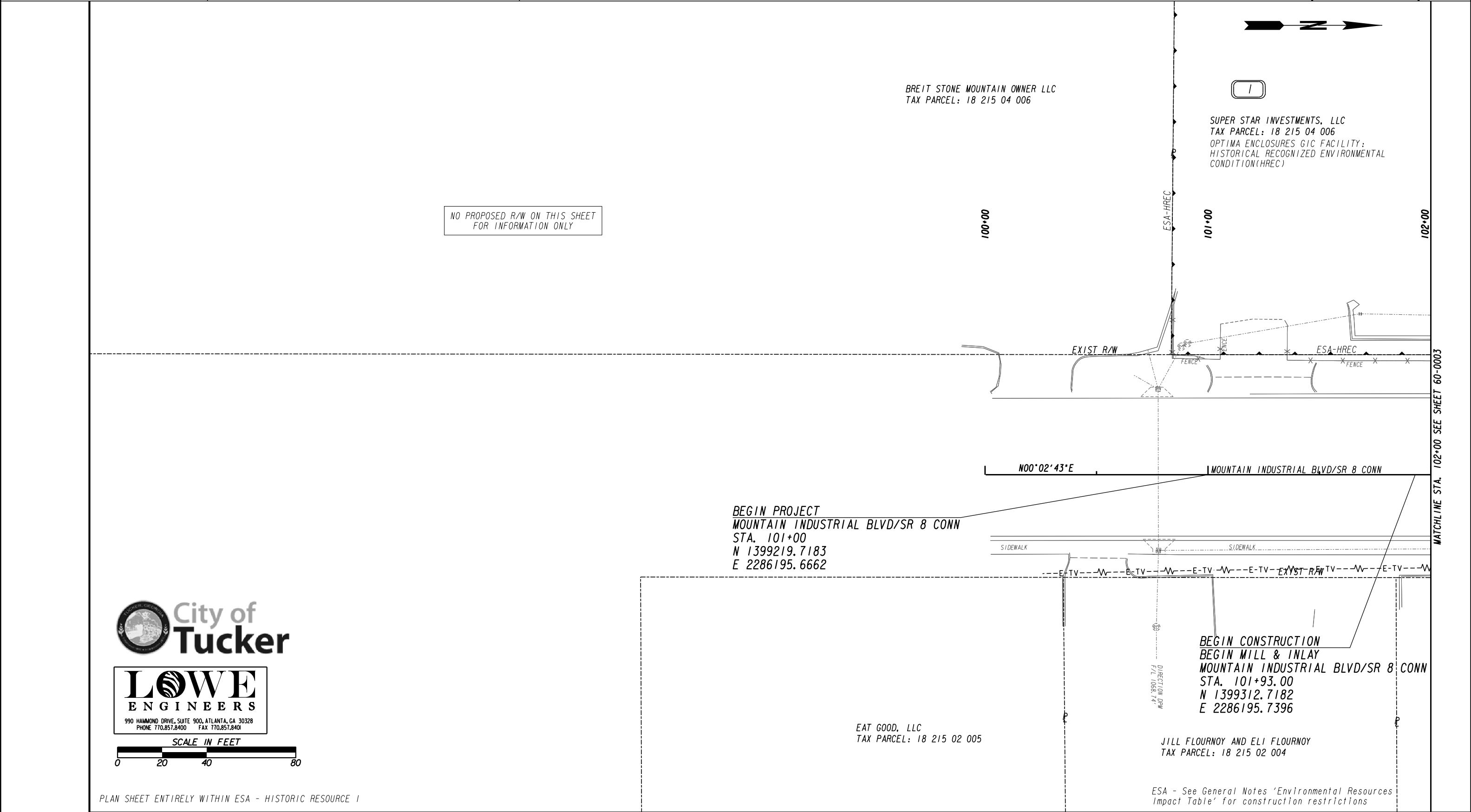
60-0001

PI 0015216
DEKALB COUNTY

LENGTH OF RIGHT OF WAY PROJECT	COUNTY NO.
	89
NET LENGTH OF RIGHT OF WAY	0.1952
NET LENGTH OF BRIDGES	0.0000
NET LENGTH OF EXCEPTIONS	0.0000
GROSS LENGTH OF RIGHT OF WAY	0.1952

THIS PROJECT IS LOCATED 100% IN DEKALB COUNTY
AND CONGRESSIONAL DISTRICT 4.
LAND LOT NO: 18, LAND DISTRICT: 215, GMD 572



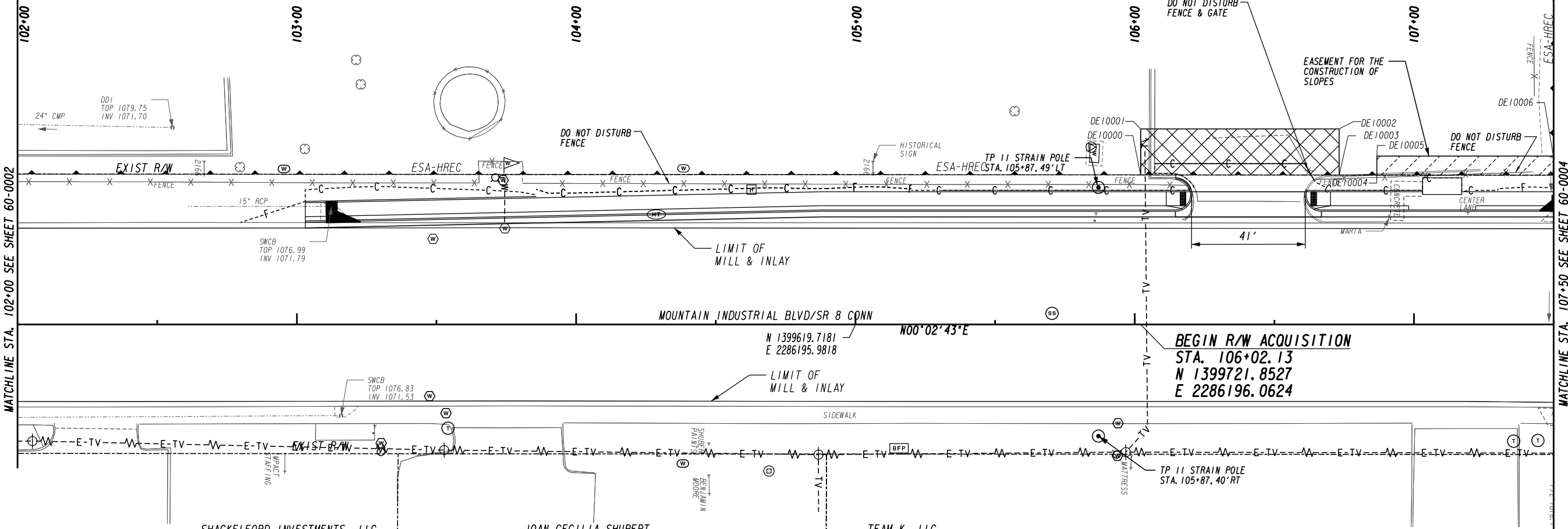


PROPERTY AND EXISTING R/W LINE		DATE		REVISIONS		DATE		REVISIONS		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
REQUIRED R/W LINE		07/24/23		PARCEL 1: CHANGED PROPERTY OWNER'S NAME						RIGHT OF WAY MAP	
CONSTRUCTION LIMITS										PROJECT NO:0015216	
EASEMENT FOR CONSTR										COUNTY:DEKALB	
& MAINTENANCE OF SLOPES										LAND LOT NO:18	
EASEMENT FOR CONSTR OF SLOPES										LAND DISTRICT:215	
EASEMENT FOR CONSTR OF DRIVES										GMD 572	
										DATE 11/07/22 SH2 OF 8	
										DRAWING No.	
										60-0002	

PLAN SHEET ENTIRELY WITHIN ESA - HISTORIC RESOURCE 1



SUPER STAR INVESTMENTS, LLC
TAX PARCEL: 18 215 04 001
OPTIMA ENCLOSURES GIC FACILITY:
HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION(HREC)



**City of
Tucker**

**LOWE
ENGINEERS**

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

SCALE IN FEET

SHACKELFORD INVESTMENTS, LLC
TAX PARCEL: 18 215 02 007

JOAN CECILIA SHUBERT
TAX PARCEL: 18 215 02 008

TEAM K, LLC
TAX PARCEL: 18 215 02 026
PAR 1 SUPER STAR INVESTMENTS, LLC
DE200
REQ'D DRWY. ESMT.

PNT	OFFSET/	STATION/	ALIGNMENT
DE10000	53.52 L	106+02.13	MOUNTAIN INDUSTRIAL BLVD
DE10001	16.48	N 89°57'17.3" W	MOUNTAIN INDUSTRIAL BLVD
DE10002	70.00 L	106+02.13	MOUNTAIN INDUSTRIAL BLVD
DE10003	71.05	N 0°02'42.7" E	MOUNTAIN INDUSTRIAL BLVD
DE10004	70.00 L	106+73.18	MOUNTAIN INDUSTRIAL BLVD
DE10005	16.54	S 89°57'17.3" E	MOUNTAIN INDUSTRIAL BLVD
DE10006	53.46 L	106+73.18	MOUNTAIN INDUSTRIAL BLVD
DE10007	71.05	S 0°05'12.6" W	MOUNTAIN INDUSTRIAL BLVD
DE10008	53.52 L	106+02.13	MOUNTAIN INDUSTRIAL BLVD
DE10009	1173.00	SF	
DE10010	0.027	ACRES	

PAR 1 SUPER STAR INVESTMENTS, LLC
DE201
EASMT. FOR CONST. OF SLOPE

PNT	OFFSET/	DIST	STATION/	BEARING	ALIGNMENT
DE10004	53.45 L	6.80	106+86.69	N 89°57'17.3" W	MOUNTAIN INDUSTRIAL BLVD
DE10005	60.26 L	63.20	106+86.69	N 0°02'42.7" E	MOUNTAIN INDUSTRIAL BLVD
DE10006	60.26 L	6.85	107+49.89	S 89°19'57.7" E	MOUNTAIN INDUSTRIAL BLVD
DE10007	512	53.41 L	107+49.82	S 0°05'12.6" W	MOUNTAIN INDUSTRIAL BLVD
DE10008	63.13	SF	106+86.69		MOUNTAIN INDUSTRIAL BLVD
DE10009	53.45 L	431.14			
DE10010	0.010	ACRES			

See General Notes 'Environmental Resources Impact Table' for construction restrictions

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

DATE	REVISIONS	DATE	REVISIONS
1/24/23	PARCEL 1: ADDED "DO NOT DISTURB FENCE" NOTES AND CHANGED TO TEMPORARY EASEMENT		

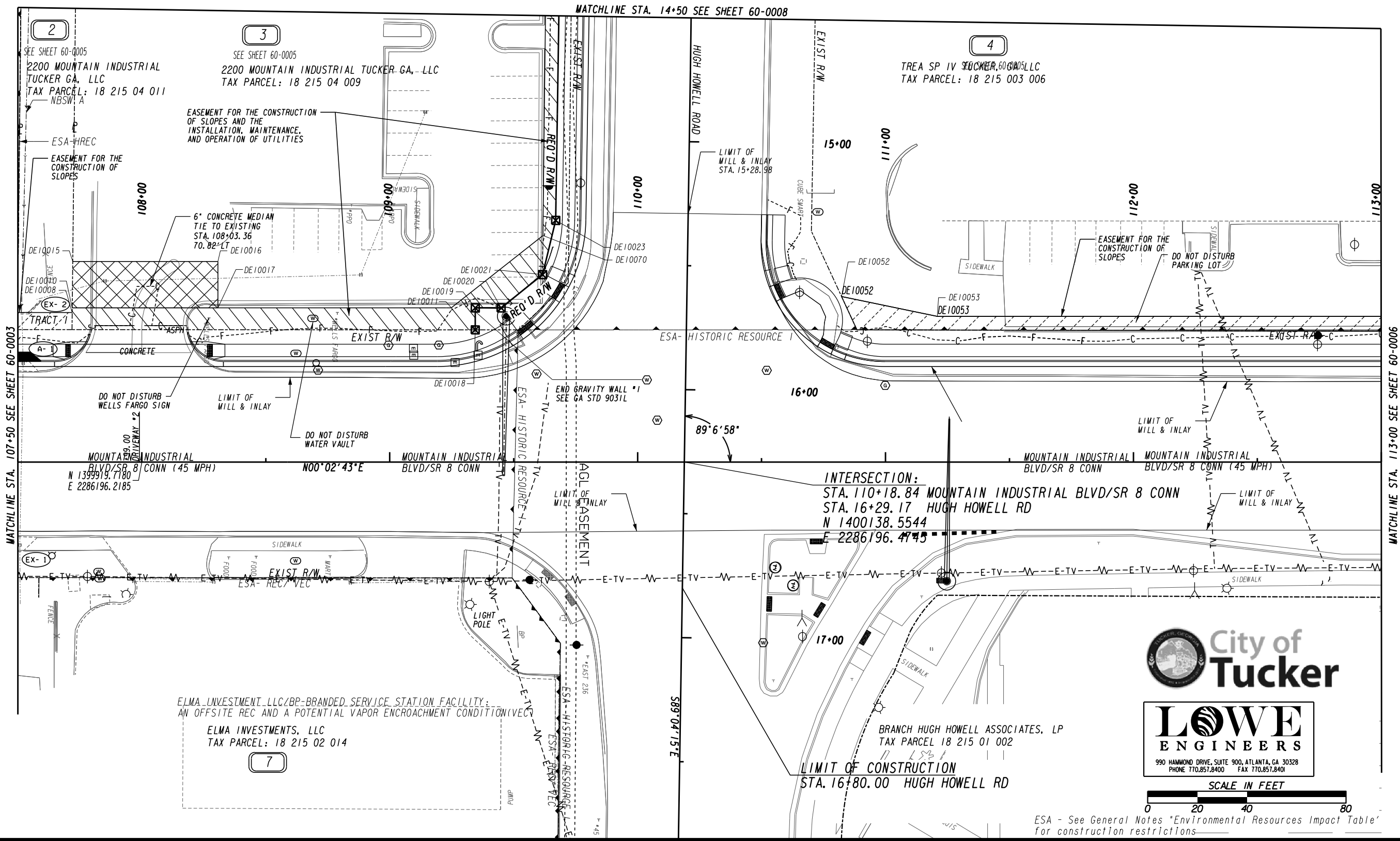
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY MAP

PROJECT NO:0015216
COUNTY:DEKALB
LAND LOT NO:18
LAND DISTRICT:215
GMD 572
DATE 11/07/22 SH3 OF8

DRAWING No.

60-0003



PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES	-----E----- -----C-----F-----	BEGIN LIMIT OF ACCESS.....BLA	DATE	REVISIONS	DATE	REVISIONS	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP PROJECT NO: 0015216 COUNTY: DEKALB LAND LOT NO: 18 LAND DISTRICT: 215 GMD 572 DATE 11/07/22 SH 4 OF 8
		END LIMIT OF ACCESS.....ELA	1/24/23	PARCEL 2: CHANGED TRACT 1 TO TEMPORARY EASEMENT	1/24/23	PARCEL 7: ADDED "DRIVE TO BE CLOSED" AND "TRENCH DRAIN TO BE	
		EXISTING LIMIT OF ACCESS		PARCEL 3: ADDED "DO NOT DISTURB" NOTES TO SIGN AND WATER		RETAINED" NOTES. CHANGED EASEMENT TO TEMPORARY EASEMENT.	
		REQ'D LIMIT OF ACCESS		VAULT. REVISED EASEMENT AND LABEL.	07/24/23	PARCELS 2, 3, 4: PARCEL OWNER NAME CHANGED	
		EXISTING LIMIT OF ACCESS & R/W		PARCEL 4: ADDED "DO NOT DISTURB PARKING LOT" NOTE. CHANGED	08/14/23	PARCEL 7: ADDED DW EASEMENT AND ADDED NOTE "TRENCH DRAIN TO	
		REQ'D LIMIT OF ACCESS & R/W		EASEMENT TO TEMPORARY EASEMENT, ADDED PARKING STRIPING	12/11/23	BE RETAINED"	
ORANGE BARRIER FENCE							
ESA - ENV. SENSITIVE AREA							

PAR 2 2200 MT. INDUSTRIAL TUCKER GA, LLC PESMT (TRACT 1)
DE202
EASMT. FOR CONST. OF SLOPE

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
512	53.41 L 6.85	107+49.82 N 89°19'57.7" W	MOUNTAIN INDUSTRIAL BLVD
DE10006	60.26 L 22.00	107+49.89 N 0°02'42.7" E	MOUNTAIN INDUSTRIAL BLVD
DE10008	60.26 L 6.87	107+71.89 S 89°19'56.0" E	MOUNTAIN INDUSTRIAL BLVD
516	53.39 L 22.00	107+71.82 S 0°05'12.6" W	MOUNTAIN INDUSTRIAL BLVD
512	53.41 L 150.85 SF	107+49.82	MOUNTAIN INDUSTRIAL BLVD
REQD EASMT	= 150.85 SF		
REQD EASMT	= 0.003 ACRES		

PAR 3 2200 MT. INDUSTRIAL TUCKER GA, LLC
DE203
REQ'D DWMY. EASMT.

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10010	62.14 L 18.68	107+71.91 N 89°19'56.0" W	MOUNTAIN INDUSTRIAL BLVD
DE10015	80.82 L 58.55	107+72.11 N 0°02'42.7" E	MOUNTAIN INDUSTRIAL BLVD
DE10016	80.82 L 18.68	108+30.67 S 89°57'17.3" E	MOUNTAIN INDUSTRIAL BLVD
DE10017	62.14 L 58.75	108+30.67 S 0°02'42.7" W	MOUNTAIN INDUSTRIAL BLVD
DE10010	62.14 L 1095.42 SF	107+71.91	MOUNTAIN INDUSTRIAL BLVD
REQD EASMT	= 1095.42 SF		
REQD EASMT	= 0.025 ACRES		

PAR 3 2200 MT. INDUSTRIAL TUCKER GA, LLC
DE204
REQ'D R/W

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
519	47.92 R 27.73	15+57.65 S 43°09'33.7" E	HUGH HOWELL RD/ SR 236
515	53.26 L 17.32	109+51.81 S 0°05'12.6" W	MOUNTAIN INDUSTRIAL BLVD
DE10018	53.27 L 8.87	109+34.49 N 89°54'47.4" W	MOUNTAIN INDUSTRIAL BLVD
DE10019	62.14 L 10.44	109+34.50 N 0°02'42.7" E	MOUNTAIN INDUSTRIAL BLVD
DE10020	62.14 L 21.42	109+44.94 N 38°40'55.2" E	MOUNTAIN INDUSTRIAL BLVD
DE10021	58.34 R 22.51	15+54.52 N 76°18'27.3" W	HUGH HOWELL RD/ SR 236
DE10023	53.37 R 129.86	15+32.56 N 89°04'09.2" W	HUGH HOWELL RD/ SR 236
DE10014	53.37 R 4.74	14+02.70 N 0°19'02.1" E	HUGH HOWELL RD/ SR 236
518	48.63 R 155.00	14+02.65 S 89°19'58.3" E	HUGH HOWELL RD/ SR 236
519	47.92 R 1219.13 SF	15+57.65	HUGH HOWELL RD/ SR 236
REQD R/W	= 1219.13 SF		
REQD R/W	= 0.028 ACRES		
REMAINDER	= +/- 0.772 ACRES		

PAR 3 2200 MT. INDUSTRIAL TUCKER GA, LLC
DE205
EASMT. FOR CONST. AND MAINT. OF SLOPE & CONST., MAINT. & OPERATION OF UTILITIES

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10018	53.27 L 162.68	109+34.49 S 0°05'12.6" W	MOUNTAIN INDUSTRIAL BLVD
516	53.39 L 8.75	107+71.82 N 89°19'56.0" W	MOUNTAIN INDUSTRIAL BLVD
DE10010	62.14 L 152.93	107+71.91 N 0°02'42.7" E	MOUNTAIN INDUSTRIAL BLVD
DE10011	62.14 L 47.06	109+24.84 N 38°15'26.4" W	MOUNTAIN INDUSTRIAL BLVD
DE10070	58.47 R 135.99	15+38.75 N 89°16'03.6" W	HUGH HOWELL RD/ SR 236
DE10071	58.94 R 5.57	14+02.76 N 0°19'02.1" E	HUGH HOWELL RD/ SR 236
DE10014	53.37 R 129.86	14+02.70 S 89°04'09.2" E	HUGH HOWELL RD/ SR 236
DE10023	53.37 R 22.51	15+32.56 S 76°18'27.3" E	HUGH HOWELL RD/ SR 236
DE10021	58.34 R 21.42	15+54.52 S 38°40'55.2" E	HUGH HOWELL RD/ SR 236
DE10020	62.14 L 10.44	109+44.94 S 0°02'42.7" W	MOUNTAIN INDUSTRIAL BLVD
DE10019	62.14 L 8.87	109+34.50 S 89°54'47.4" E	MOUNTAIN INDUSTRIAL BLVD
DE10018	53.27 L 2607.17 SF	109+34.49	MOUNTAIN INDUSTRIAL BLVD
REQD EASMT	= 2607.17 SF		
REQD EASMT	= 0.060 ACRES		

PAR 4 TREA SP IV TUCKER, GA LLC- PESMT
DE212
EASMT. FOR CONST. OF SLOPE

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
2289	53.30 L 14.79	110+88.47 S 65°14'43.2" W	MOUNTAIN INDUSTRIAL
DE10052	66.73 L 39.44	110+82.27 N 11°44'57.4" E	MOUNTAIN INDUSTRIAL
DE10053	58.73 L 448.63	111+20.89 N 0°02'42.7" E	MOUNTAIN INDUSTRIAL
DE10054	58.73 L 6.31	115+69.53 S 89°17'39.4" E	MOUNTAIN INDUSTRIAL
536	52.42 L 480.98	115+69.45 S 0°09'01.7" W	MOUNTAIN INDUSTRIAL
2289	53.30 L 2969.00 SF	110+88.47	MOUNTAIN INDUSTRIAL
REQD EASMT	= 2969.00 SF		
REQD EASMT	= 0.068 ACRES		



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

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

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

DATE	REVISIONS
1/24/23	PARCEL 2: CHANGED TO TEMPORARY EASEMENT
	PARCEL 3: REVISED EASEMENT AND LABEL
	PARCEL 4: CHANGED TO TEMPORARY EASEMENT
	PARCEL 7: CHANGED TO TEMPORARY EASEMENT
07/24/23	PARCELS 2, 3, 4: CHANGED PROPERTY OWNER'S NAME
08/14/23	PARCEL 7: ADDED DM EASEMENT

DATE	REVISIONS
12/11/23	PARCEL 7: REMOVED ALL EASEMENTS

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAP

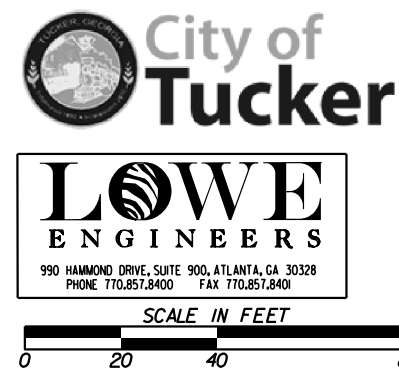
PROJECT NO:0015216
COUNTY: DEKALB
LAND LOT NO:18
LAND DISTRICT:215
GMD 572
DATE 11/07/22 SH5 OF8

DRAWING No.
60-0005

7/31/2015

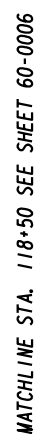
GRWPLN

PNT	OFFSET/	STATION/	ALIGNMENT
536	52.42 L	115+69.45	MOUNTAIN INDUSTRIAL BLVD
	6.31	N 89°17'39.4" W	
DE10054	58.73 L	115+69.53	MOUNTAIN INDUSTRIAL BLVD
	20.95	N 89°17'39.4" W	
DE10065	79.68 L	115+69.77	MOUNTAIN INDUSTRIAL BLVD
	62.98	N 0°02'42.7" E	
DE10066	79.68 L	116+32.74	MOUNTAIN INDUSTRIAL BLVD
	27.38	S 89°57'17.3" E	
DE10078	52.30 L	116+32.74	MOUNTAIN INDUSTRIAL BLVD
	63.29	S 0°09'01.7" W	
536	52.42 L	115+69.45	MOUNTAIN INDUSTRIAL BLVD
REQD EASMT	1724.87	SF	
REQD EASMT	0.040	ACRES	



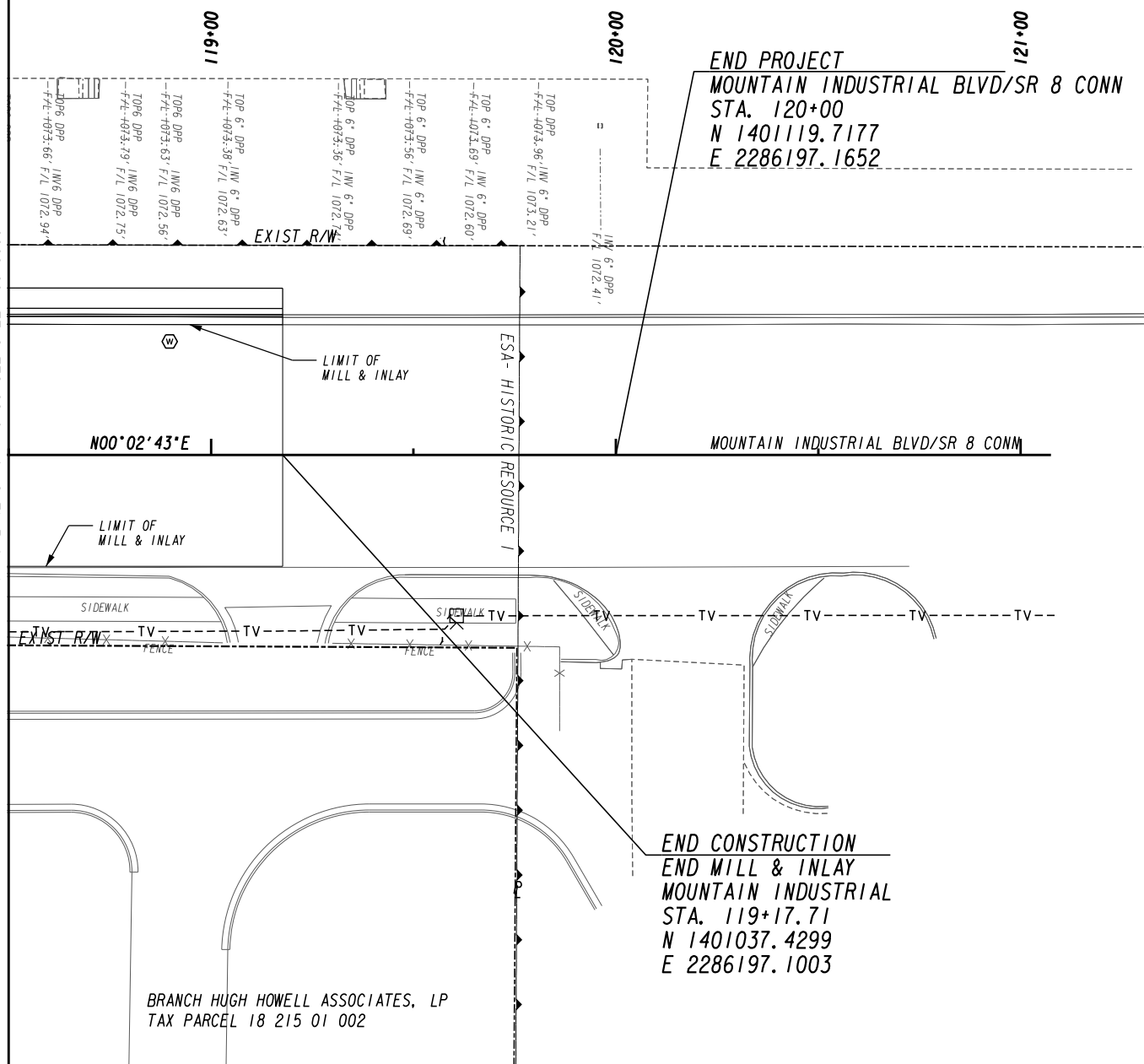
STATE OF GEORGIA	
DEPARTMENT OF TRANSPORTATION	
RIGHT OF WAY MAP	
PROJECT NO: 0015216	
COUNTY: DEKALB	
LAND LOT NO: 18	
LAND DISTRICT: 215	
GWD 572	
DATE 11/07/22	SH6 OF8

DRAWING No.
60-0006



END PROJECT
MOUNTAIN INDUSTRIAL BLVD/SR 8 CONN
STA. 120+00
N 1401119.7177
E 2286197.1652

NO PROPOSED R/W ON THIS SHEET
FOR INFORMATION ONLY

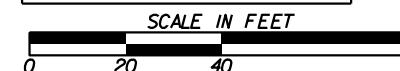


END CONSTRUCTION
END MILL & INLAY
MOUNTAIN INDUSTRIAL
STA. 119+17.71
N 1401037.4299
E 2286197.1003

BRANCH HUGH HOWELL ASSOCIATES, LP
TAX PARCEL 18 215 01 002



ESA - See General Notes 'Environmental Resources Impact Table' for construction restrictions



PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES	-----P-----	BEGIN LIMIT OF ACCESS.....BLA	DATE	REVISIONS	DATE	REVISIONS	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP PROJECT NO:0015216 COUNTY: DEKALB LAND LOT NO:18 LAND DISTRICT:215 GMD 572 DATE 11/07/22 SH7 OF8
	-----G-----F-----	END LIMIT OF ACCESS.....ELA					
		EXISTING LIMIT OF ACCESS					
		REQ'D LIMIT OF ACCESS					
		EXISTING LIMIT OF ACCESS & R/W					
		REQ'D LIMIT OF ACCESS & R/W					DRAWING No. 60-0007
		ORANGE BARRIER FENCE					
		ESA - ENV. SENSITIVE AREA					

PAR 2 2200 MT. INDUSTRIAL TUCKER GA, LLC
DE206
REQ'D R/W

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10038	51.70 R	12+27.38 N 0°19'02.0" E	HUGH HOWELL RD/ SR 236
520	49.43 R	12+27.36 S 89°19'58.3" E	HUGH HOWELL RD/ SR 236
518	48.63 R	14+02.65 S 0°19'02.1" W	HUGH HOWELL RD/ SR 236
DE10014	53.37 R	14+02.70 N 89°04'15.6" W	HUGH HOWELL RD/ SR 236
DE10034	53.37 R	12+90.08 S 0°55'45.1" W	HUGH HOWELL RD/ SR 236
DE10035	56.17 R	12+90.08 N 89°04'14.9" W	HUGH HOWELL RD/ SR 236
DE10036	56.17 R	12+78.87 N 0°55'45.1" E	HUGH HOWELL RD/ SR 236
DE10037	51.70 R	12+78.87 N 89°04'14.9" W	HUGH HOWELL RD/ SR 236
DE10038	51.70 R	12+27.38	HUGH HOWELL RD/ SR 236
REQD R/W	706.54 SF		
REQD R/W	0.016 ACRES		
REMAINDER	+/- 0.974 ACRES		

PAR 2 2200 MT. INDUSTRIAL TUCKER GA, LLC (TRACT 2)
DE207
EASMT. FOR CONST. AND MAINT. OF SLOPE & CONST., MAINT. & OPERATION OF UTILITIES

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10072	59.54 R	12+27.46 N 0°19'02.0" E	HUGH HOWELL RD/ SR 236
DE10038	51.70 R	12+27.38 S 89°04'14.9" E	HUGH HOWELL RD/ SR 236
DE10037	51.70 R	12+78.87 S 0°55'45.1" W	HUGH HOWELL RD/ SR 236
DE10036	56.17 R	12+78.87 S 89°04'14.9" E	HUGH HOWELL RD/ SR 236
DE10035	56.17 R	12+90.08 N 0°55'45.1" E	HUGH HOWELL RD/ SR 236
DE10034	53.37 R	12+90.08 S 89°04'15.6" E	HUGH HOWELL RD/ SR 236
DE10014	53.37 R	14+02.70 S 0°19'02.1" W	HUGH HOWELL RD/ SR 236
DE10071	58.94 R	14+02.76 N 89°16'03.6" W	HUGH HOWELL RD/ SR 236
DE10072	59.54 R	12+27.46	HUGH HOWELL RD/ SR 236
REQD EASMT	1083.57 SF		
REQD EASMT	0.025 ACRES		

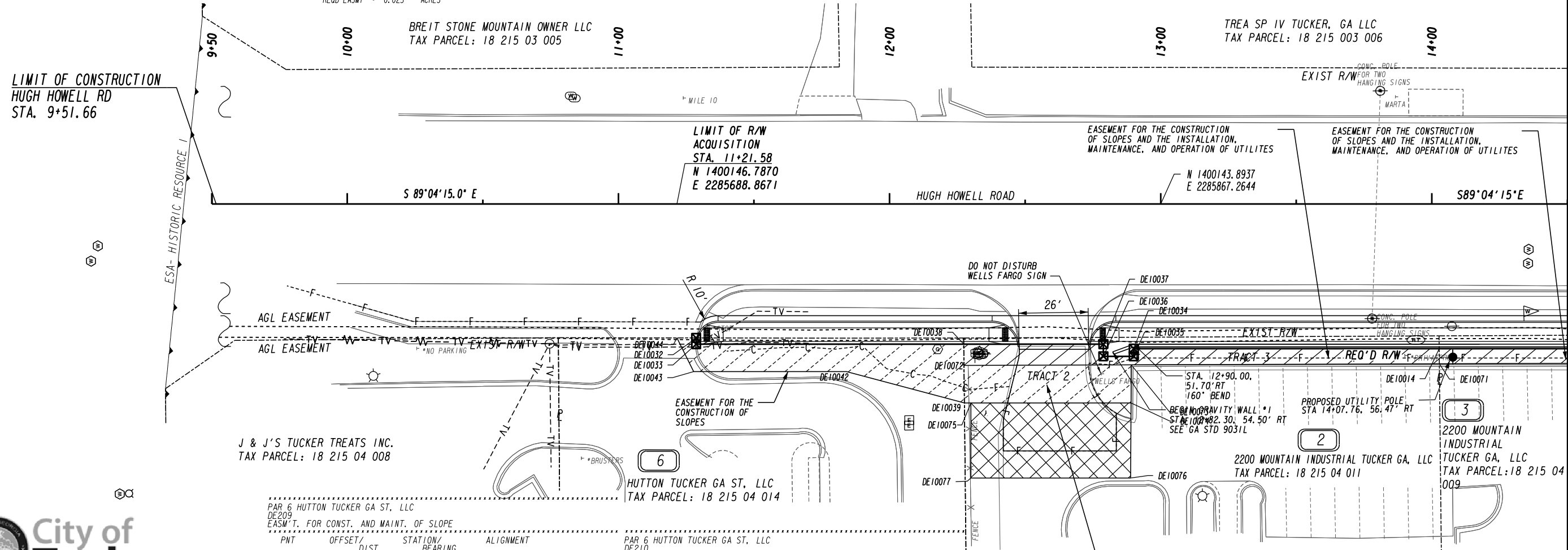
PAR 2 2200 MT. INDUSTRIAL TUCKER GA, LLC
DE208
REQ'D DRWY. EASMT.

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10075	73.35 R	12+30.00 S 89°04'14.9" E	HUGH HOWELL RD/ SR 236
DE10074	73.35 R	12+89.06 S 1°13'40.7" W	HUGH HOWELL RD/ SR 236
DE10076	101.03 R	12+88.91 N 89°04'14.9" W	HUGH HOWELL RD/ SR 236
DE10077	101.03 R	12+30.00 N 0°55'45.0" E	HUGH HOWELL RD/ SR 236
DE10075	73.35 R	12+30.00	HUGH HOWELL RD/ SR 236
REQD EASMT	1632.61 SF		
REQD EASMT	0.037 ACRES		

ESA - See General Notes 'Environmental Resources
Impact Table' for construction restrictions

PAR 2 2200 MT. INDUSTRIAL TUCKER GA, LLC- (TRACT 3)
DE217
EASMT. FOR CONST. OF SLOPE

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10072	59.54 R	12+27.46 S 89°16'03.6" E	HUGH HOWELL RD/ SR 236
DE10073	59.33 R	12+89.13 S 1°13'40.7" W	HUGH HOWELL RD/ SR 236
DE10074	73.35 R	12+89.06 N 89°04'14.9" W	HUGH HOWELL RD/ SR 236
DE10039	73.35 R	12+27.61 N 0°19'02.0" E	HUGH HOWELL RD/ SR 236
DE10072	59.54 R	12+27.46	HUGH HOWELL RD/ SR 236
REQD EASMT	856.89 SF		
REQD EASMT	0.020 ACRES		



City of
Tucker

LOWE
ENGINEERS

990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328
PHONE 770.857.8400 FAX 770.857.8401

SCALE IN FEET

PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES		BEGIN LIMIT OF ACCESS.....BLA END LIMIT OF ACCESS.....ELA EXISTING LIMIT OF ACCESS REQ'D LIMIT OF ACCESS EXISTING LIMIT OF ACCESS & R/W REQ'D LIMIT OF ACCESS & R/W ORANGE BARRIER FENCE ESA - ENV. SENSITIVE AREA	DATE	REVISIONS	DATE	REVISIONS	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP		PROJECT NO:0015216 COUNTY: DEKALB LAND LOT NO:18 LAND DISTRICT:215 GMD 572 DATE 11/07/22 SH8 OF8	DRAWING No. 60-0008
			1/24/23	PARCEL 2: REVISED PERMANENT EASEMENT & LABEL, ADDED						
				TRACT 3 CONSTR EASEMENT, REVISED DRIVEWAY ESMT, ADDED						
				DO NOT DISTURB SIGN NOTES						
				PARCEL 3: REVISED PERMANENT EASEMENT & LABEL						
				PARCEL 6: CHANGED TO TEMPORARY EASEMENT						
			07/24/23	PARCELS 2, 3, 4, & 6: CHANGED PROPERTY OWNER'S NAME						