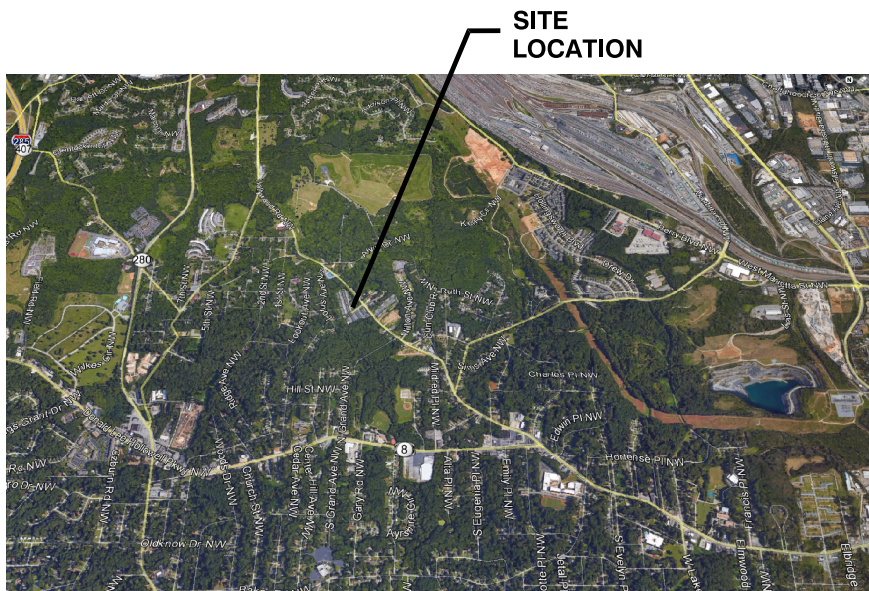


CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT
OFFICE OF ENGINEERING SERVICES

CITY OF ATLANTA
KASIM REED
MAYOR

DEPARTMENT OF WATERSHED MANAGEMENT
KISHIA L. POWELL
COMMISSIONER



LOCATION MAP



CONSTRUCTION PLANS
FOR
TERRELL CREEK SEWER IMPROVEMENTS
SEPTEMBER 22, 2017
100% REVIEW DOCUMENTS

SHT#	DWG #	TITLE	SHT#	DWG #	TITLE
1	G-0000	COVER SHEET	31	CE-230	ES&PC NOTES
2	G-2000	GENERAL NOTES	32	CE-231	ES&PC NOTES
3	G-2002	FIRM MAPS	33	CE-232	ES&PC NOTES
4	C-001	OVERALL PLAN	34	CE-233	ES&PC DETAILS
5	C-101	EXISTING SEWERS PLAN & PROFILE	35	CE-234	ES&PC DETAILS
6	C-102	EXISTING SEWERS PLAN & PROFILE	36	CE-235	ES&PC DETAILS
7	C-103	EXISTING SEWERS PLAN & PROFILE	37	CE-236	ES&PC DETAILS
8	C-104	EXISTING SEWERS PLAN & PROFILE	38	CE-201	ES&PC PLAN
9	C-105	EXISTING SEWERS PLAN & PROFILE	39	CE-202	ES&PC PLAN
10	C-106	EXISTING SEWERS PLAN & PROFILE	40	CE-203	ES&PC PLAN
11	C-107	EXISTING SEWERS PLAN & PROFILE	41	CE-204	ES&PC PLAN
12	C-108	EXISTING SEWERS PLAN & PROFILE	42	CE-205	ES&PC PLAN
13	C-301	PLAN & PROFILE STA 0+00 TO STA 15+00	43	CE-206	ES&PC PLAN
14	C-302	PLAN & PROFILE STA 15+00 TO STA 30+00	44	CE-207	ES&PC PLAN
15	C-303	PLAN & PROFILE STA 30+00 TO STA 43+00	45	CE-208	ES&PC PLAN
16	C-304	PLAN & PROFILE STA 43+00 TO STA 57+00	46	LE-241	TREE PROTECTION PLAN
17	C-305	PLAN & PROFILE STA 57+00 TO STA 71+00	47	LE-242	TREE PROTECTION PLAN
18	C-306	PLAN & PROFILE STA 71+00 TO STA 85+00	48	LE-243	TREE PROTECTION PLAN
19	C-307	PLAN & PROFILE STA 85+00 TO STA 91+00	49	LE-244	TREE PROTECTION PLAN
20	C-308	PLAN & PROFILE STA 99+00 TO STA 110+00	50	LE-245	TREE PROTECTION PLAN
21	C-309	PLAN & PROFILE DETAILS	51	LE-246	TREE PROTECTION PLAN
22	C-310	PLAN & PROFILE DETAILS	52	LE-247	TREE PROTECTION PLAN
23	C-401	BORING PLAN & PROFILE	53	LE-248	TREE PROTECTION PLAN
24	C-402	BORING PLAN & PROFILE			
25	C-403	BORING PLAN & PROFILE			
26	C-501	STANDARD DETAILS			
27	C-502	STANDARD DETAILS			
28	C-503	STANDARD DETAILS			
29	C-504	STANDARD DETAILS			
30	C-505	STANDARD DETAILS			

EROSION NOTE:
EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S)
WILL BE EMPLOYED AND ENFORCED PURSUANT TO AN EROSION AND
SEDIMENT CONTROL PLAN PREPARED BY A GEORGIA SOIL AND WATER
CONSERVATION COMMISSION LEVEL-2 DESIGN PROFESSIONAL.
PRIOR TO LAND-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SCHEDULE
A PRE-CONSTRUCTION MEETING WITH THE AREA EROSION CONTROL INSPECTOR.
CALL (404) 546-1300 TO CONTACT THE INSPECTOR.

EROSION NOTE:
"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER
A SITE VISIT TO THE LOCATION DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED
AGENT, UNDER MY DIRECT SUPERVISION"

LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER

ISSUED:EXPIRES:

ch2m|ROH&D|FOX
674854
TC-005-G-0000_678454.dgn
G-0000

811
Know what's below.
Call before you dig.

DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES									
TERRELL CREEK SEWER IMPROVEMENTS COVER									
SURVEYOR		FIELD BOOKS		L.L. DIST.		COUNTY		SCALE	
DRAWN BY E GRIGGS		DESIGNED BY J REYNOLDS		CHECKED BY A BYARD		APPROVED BY T KELLEY		DATE SEP 2017	
ENGINEER OF RECORD				PROJECT NUMBER:				SHEET 1 OF 53	

1. THE EXISTING UTILITIES SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE. UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN COMPILED FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND BY SURVEY. ACCURACY AND COMPLETENESS ARE NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA AND FOR COORDINATING ANY NECESSARY RELOCATIONS OR TIE-INS. UTILITIES SHOWN ARE APPROXIMATE. GEORGIA LAW REQUIRES THE CONTRACTOR TO NOTIFY THE UTILITIES PROTECTION CENTER MINIMUM 3 WORKING DAYS BUT NOT MORE THAN 10 DAYS BEFORE BEGINNING CONSTRUCTION. THIS NOTICE WILL REMAIN IN EFFECT FOR 30 WORKING DAYS FROM THE DATE UTILITIES PROTECTION CENTER IS NOTIFIED. IN THE ATLANTA AREA, THE CONTRACTOR IS TO CALL THE UTILITIES PROTECTION CENTER AT 770-623-4344.
2. CONTRACTOR SHALL RETAIN A LAND SURVEYOR REGISTERED IN THE STATE OF GEORGIA TO REPLACE ANY PROPERTY PINS REMOVED DURING CONSTRUCTION. A COPY OF THE FIELD NOTES SHOWING PINS RESET SHALL BE SENT TO NOLTON JOHNSON, DIRECTOR - BUREAU OF ENGINEERING SERVICES, WATERSHED MANAGEMENT, CITY OF ATLANTA, 72 MARIETTA ST, 5th FLOOR, ATLANTA GA. 30303-0330.
3. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE LATEST CITY OF ATLANTA STANDARDS.
4. SEWER DISTANCES SHOWN ON THE PROFILE DRAWINGS ARE FROM CENTER-TO-CENTER OF THE MANHOLE STRUCTURES AND ARE FOR LAYOUT PURPOSES ONLY. THE INVERTS SHOWN ARE THE THEORETICAL PIPE INVERTS AT THE CENTER OF THE STRUCTURE.
5. ALL REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM-C76 CLASS III OR AS OTHERWISE NOTED ON THE CONTRACT DRAWINGS.
6. ALL PIPES ENTERING A MANHOLE WILL BE SEPARATED FROM THE MANHOLE WALL BY AN APPROVED MANUFACTURER'S BUTYL RUBBER GASKET WHICH COMPLETELY SURROUNDS THE PIPE, SEALS THE MANHOLE AND PERMITS DIFFERENTIAL MOVEMENT.
7. CLASS "B" PIPE BEDDING SHALL BE USED IN PUBLIC RIGHT-OF-WAY UNLESS OTHERWISE NOTED ON THE CONTRACT DRAWINGS. CLASS "C" PIPE BEDDING SHALL BE USED IN ALL OTHER AREAS UNLESS OTHERWISE NOTED ON THE CONTRACT DRAWINGS.
8. THE CONTRACTOR SHALL COORDINATE WORK WITH CITY OF ATLANTA.
CONTRACTOR SHALL PROVIDE SUFFICIENT ADVANCE NOTICES OF PROPOSED WORK SCHEDULE.
9. ALL AREAS DISTURBED AND DAMAGED BY THE CONTRACTOR, INCLUDING CURB AND GUTTER, AND TRENCH SETTLEMENT RELATED AREAS, SHALL BE RESTORED TO THE ORIGINAL CONDITIONS TO THE SATISFACTION OF THE CITY OF ATLANTA AND AT NO ADDITIONAL COST TO THE CITY.
10. CONTRACTOR SHALL INSTALL 6 FOOT HIGH TEMPORARY CHAIN LINK FENCE TO PROVIDE FOR TEMPORARY ENCLOSURE OF YARDS FOR SECURITY OF PETS, DOMESTIC ANIMALS, AND THE PROPERTY WHEN PERMANENT FENCES MUST BE REMOVED DUE TO CONSTRUCTION OF STORM OR SANITARY SEWER LINES.
11. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION.
12. THE CONTRACTOR SHALL REPLACE ALL FENCING DAMAGED BY CONSTRUCTION. FENCING SHALL BE REPLACED TO ORIGINAL SIZE, QUALITY AND CONDITION, AND TO THE APPROVAL OF THE CITY OF ATLANTA OR ITS AUTHORIZED REPRESENTATIVE.
13. PRIOR TO FINAL ACCEPTANCE OF WORK, CONTRACTOR SHALL PROVIDE "AS-BUILT" MARK-UP PLANS TO THE CITY OF ATLANTA ASSIGNED INSPECTOR FOR FINAL INSPECTION OF ALL NEWLY INSTALLED STORM AND SANITARY SEWERS. AFTER THE FINAL INSPECTION APPROVAL, CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS TO THE BUREAU OF ENGINEERING SERVICES, UTILITY DESIGN GROUP, PROJECT DESIGN ENGINEER.
14. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM THE CITY OF ATLANTA DEPARTMENT OF PUBLIC WORKS AND IF APPLICABLE, FROM THE GEORGIA DEPARTMENT OF TRANSPORTATION PRIOR TO ANY REQUIRED LANE CLOSURES.
15. INSTALLATION OF NEW STORM AND SANITARY SEWERS, INCLUDING TRENCH EXCAVATION, SHOULD BE FINISHED BY CLOSE OF DAY, OR ADEQUATELY COVERED FOR SAFETY.
16. CONTRACTOR SHALL INSTALL STEEL COVER PLATES TO PROTECT AREAS, INCLUDING DRIVEWAYS LEFT OPEN AT THE END OF EACH DAY'S WORK. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AND MAILBOXES AT ALL TIMES.
17. THE LENGTH OF PIPE FOR PAYMENT PURPOSE WILL BE CONSIDERED THE DISTANCE FROM THE CENTER OF MANHOLE TO CENTER OF MANHOLE, SUBTRACTED BY THE WIDTH OF THE MANHOLE.
18. CONTRACTOR SHALL ENTER UPON PRIVATE PROPERTY ONLY AFTER OBTAINING RIGHT OF ENTRY LETTER FROM THE CITY OF ATLANTA AND NOTIFYING HOMEOWNER IN ADVANCE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING ALL UTILITIES WITHIN THE EXCAVATION LIMITS DURING CONSTRUCTION.
20. CONTRACTOR SHALL LOCATE AND REFERENCE ALL WATER METERS AND VALVES WITHIN THE CONSTRUCTION LIMITS. THE REFERENCE POINTS SHALL BE LOCATED SO THAT THE REFERENCE WILL NOT BE DISTURBED AND THE LOCATION OF THE METERS AND VALVES CAN BE RE-ESTABLISHED. A PERMANENT WRITTEN RECORD OF THE REFERENCE POINTS WILL BE FURNISHED TO THE CITY OF ATLANTA. ACCESS TO FIRE HYDRANTS WILL BE MAINTAINED AT ALL TIMES.
21. ALL TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY OF ATLANTA DETAILS. TEMPORARY TRENCH EXCAVATION SHALL AT ALL TIMES CONFORM TO THE SAFETY REQUIREMENTS OF OSHA.
22. THE SURVEY INFORMATION SHOWN HEREIN IS BASED ON DATABASE FURNISHED BY THE CITY OF ATLANTA WITH AUGMENTATION BY FIELD SURVEYS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO STAKEOUT ALL PROPOSED WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
23. AT COMPLETION OF SEWER AND WATER CONSTRUCTION SET ALL MANHOLES, VALVE BOXES, METERS, AND APPURTENANCES FOR PROPER FINAL GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO THE ABOVE ITEMS UNTIL SYSTEM IS ACCEPTED BY THE CITY.
24. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY FOR THE SOIL AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D-698 AND AASHTO T-99) RESULTS. A REPORT MAY BE REQUIRED BY THE CONSTRUCTION INSPECTOR OR THE CITY'S ENGINEER FOR ALL FILL AREAS. BACKFILL MATERIAL SHALL BE FREE OF ROOTS, ROCKS AND OTHER DELETERIOUS MATTER.
25. ALL NEW MANHOLES ARE PROJECTED. CONTRACTOR MUST VERIFY SEWER ELEVATIONS AT APPROPRIATE LOCATIONS THROUGH VACUUM EXCAVATION.
26. CONTRACTOR SHALL FIELD VERIFY ALL INVERT ELEVATIONS, ANGLES, AND SERVICE STATUS.
27. MANHOLES WITHIN PUBLIC RIGHT-OF-WAY TO BE ABANDONED IN PLACE IN ACCORDANCE WITH ATLANTA SPECIFICATIONS.
28. CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AND SPECIFICATIONS ON SITE AT ALL TIMES.
29. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SECURITY OF ANY OFFICES OR ANY TEMPORARY STAGING AREAS UTILIZED BY THE CONTRACTOR. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE SECURITY OF HIS MATERIALS, TOOLS, VEHICLES AND EQUIPMENT ON-SITE AT ALL OF THE VARIOUS WORK LOCATIONS THROUGHOUT THE CITY.

RIGHT OF WAY
LAND LOT LINE
PROPERTY LINE
CENTER LINE/BASE LINE
EASEMENT (DRAINAGE, SANITARY)
EASEMENT (TEMPORARY)
DEMOLITION AREA
FENCE
EDGE OF PAVEMENT
CENTER LINE OF SWALE/CREEK
CONTOUR
UNDERGROUND POWER
OVERHEAD POWER
UNDERGROUND TELEPHONE
UNDERGROUND TV CABLE
GAS LINE
WATER LINE
SANITARY SEWER LINE (TO REMAIN)
SANITARY SEWER LINE (NEW)
SANITARY SEWER LINE (REPLACE)
SANITARY SEWER LINE (ABANDON)
STORM DRAIN LINE
GUY POLE
UTILITY POLE (T=TELEPHONE, P=POWER,
UNDERGROUND TELEPHONE BOX
TELEPHONE MANHOLE
METER BOX (W=WATER, G=GAS)
CATCH BASIN
DROP INLET
HEADWALL
CITY OF ATLANTA CONTROL POINT
(DELTA POINT)
PROPERTY MARKER (IPF=IRON PIN FOUND)
RETAINING WALL
CLEANOUT
SIDEWALK
CURB AND GUTTER
LIMITS OF CONSTRUCTION
SIGNIFICANT TREES
BORING LOCATIONS
SANITARY SEWER MANHOLE (To Remain)
SANITARY SEWER MANHOLE (Replace)
SANITARY SEWER MANHOLE (Abandon)
SANITARY SEWER MANHOLE (NEW)
WATER VALVE
WATER METER
FIRE HYDRANT

The figure consists of two parts. The top part is a cross-sectional view of the experimental setup, showing three distinct layers. The top layer is labeled 'C' and has a cross-hatched pattern. The middle layer is labeled '900' and has a diagonal hatched pattern. The bottom layer is labeled 'C' and has a cross-hatched pattern. Below these layers is a horizontal line with several small squares. The bottom part is a longitudinal view of the setup, showing a horizontal line with several vertical tick marks. Below this line are two labels, 'ST' and 'RP', separated by a horizontal line. At the bottom of the figure are three circular symbols: a circle with 'RP' inside, a circle with an 'X' inside, and a circle with 'SS' inside.

ABAND	ABANDONED
APPROX	APPROXIMATE
BRK	BRICK
CB	CATCH BASIN
CC	CENTER TO CENTER
CIRCUM	CIRCUMFERENCE
CL	CLASS
CO	CLEAN OUT
CCTV	CLOSED CIRCUIT TELEVISION
COMB	COMBINED
CONC	CONCRETE
CP	CLAY PIPE
C	CONDUIT
CMP	CORRUGATED METAL PIPE
CULV	CULVERT
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
DRIVE	DRIVEWAY
DIP	DUCTILE IRON PIPE
DI	DROP INLET
E/P	EDGE OF PAVEMENT
EL	ELEVATION
EXIST	EXISTING
FH	FIRE HYDRANT
FT	FOOT OR FEET
G	GAS
GM	GAS METER
GV	GAS VALVE
HORIZ	HORIZONTAL
HE	HORIZONTAL ELLIPTICAL
IN	INCH
ID	INSIDE DIAMETER
INV	INVERT
LT	LEFT
LF	LINEAR FEET
LOC	LOCATION
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
NO	NUMBER
OD	OUTSIDE DIAMETER
P	PIPE
PL	PROPERTY LINE
PROP	PROPOSED
R	RADIUS
RCP	
RQD	REQUIRED
REV	REVISED OR REVISION
RT	RIGHT
R/W	RIGHT-OF-WAY
SECT	SECTION
SPEC	SPECIFICATION (S)
STL	STEEL
SD	STORM DRAIN SEWER
SS	SANITARY SEWER
ST	STREET
T	TELEPHONE
TYP	TYPICAL
UG	UNDERGROUND
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WATER
WM	WATER METER
WV	WATER VALVE
LOC	LIMITS OF CONSTRUCTION

A.G. ATLANTA GAS LIGHT COMPANY
B.D.W. BUREAU OF DRINKING WATER
G.P. GEORGIA POWER COMPANY
CTV UNDERGROUND CABLE COMPANIES
UT UNDERGROUND TELEPHONE COMPANIES

ch2m. | ROH&D FOX
A JOINT VENTURE

674854

TC-005-FG-2000_674854.dgn

G-2000

811
Know what's below.
Call before you dig.

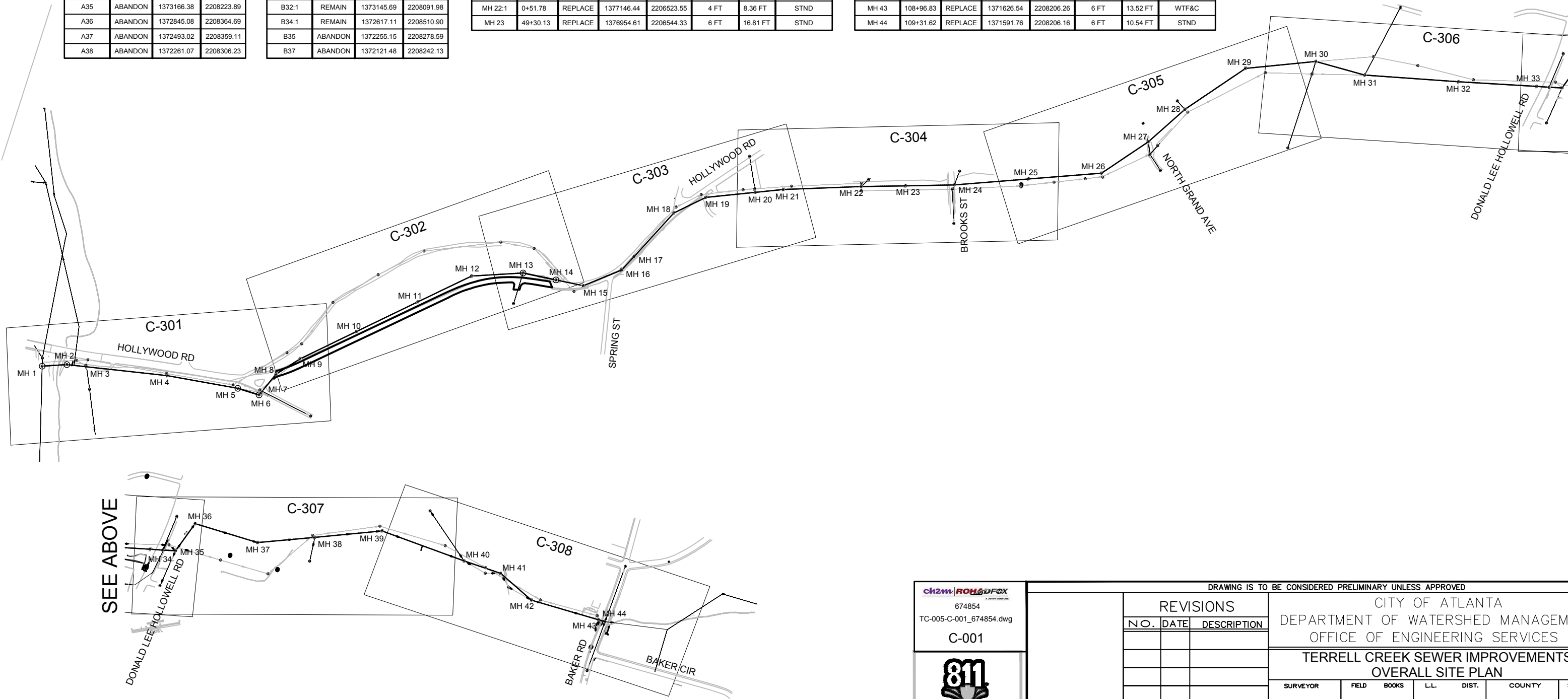
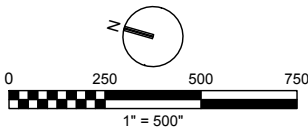
DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED											
	REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES							
	NO.	DATE	DESCRIPTION								
				TERRELL CREEK SEWER IMPROVEMENTS GENERAL NOTES							
				SURVEYOR		FIELD BOOKS		L.L. DIST.		COUNTY	SCALE
				DRAWN BY E GRIGGS		DESIGNED BY J REYNOLDS		CHECKED BY A BYARD		APPROVED BY T KELLEY	DATE SEP 2017
ENGINEER OF RECORD				PROJECT NUMBER:					2	SHEET OF	53

EXISTING MANHOLE TABLE			
MANHOLE	WORK	NORTHING	EASTING
A1:1	REMAIN	1380725.63	2204384.93
A4	ABANDON	1379878.41	2204620.78
A4:1	REMAIN	1379588.79	2204562.63
A9:1	REMAIN	1378737.93	2205407.72
A11	ABANDON	1378251.09	2205729.82
A12	ABANDON	1378065.44	2206116.37
A13	ABANDON	1377957.48	2206213.86
A13:1	REMAIN	1377771.13	2206471.63
A14	ABANDON	1377756.14	2206296.86
A16	ABANDON	1377520.23	2206382.49
A17	ABANDON	1377177.21	2206495.32
A18	ABANDON	1377167.21	2206458.15
A19:1	REMAIN	1376660.59	2206424.71
A20	ABANDON	1376383.18	2206705.98
A21	ABANDON	1376220.43	2206771.66
A22	ABANDON	1376070.28	2206832.51
A23	ABANDON	1375985.51	2206865.15
A24:1	REMAIN	1375708.37	2206979.59
A25	ABANDON	1375654.12	2207308.17
A26	ABANDON	1375323.93	2207613.58
A27:1	REMAIN	1375106.12	2207271.07
A33	ABANDON	1373590.28	2207971.75
A34	ABANDON	1373334.86	2207969.86
A35	ABANDON	1373166.38	2208223.89
A36	ABANDON	1372845.08	2208364.69
A37	ABANDON	1372493.02	2208359.11
A38	ABANDON	1372261.07	2208306.23

EXISTING MANHOLE TABLE			
MANHOLE	WORK	NORTHING	EASTING
A39	ABANDON	1371944.05	2208223.05
A40	ABANDON	1371638.65	2208224.85
A97	REMAIN	1381004.38	2204474.05
A98	ABANDON	1380831.54	2204510.38
A99	ABANDON	1380778.38	2204498.48
B1	ABANDON	1380775.77	2204529.13
B2	ABANDON	1380365.20	2204571.92
B3	ABANDON	1380018.28	2204608.24
B4	ABANDON	1379795.25	2204844.42
B5	ABANDON	1379734.43	2204909.79
B6	ABANDON	1379637.60	2205159.00
B7	ABANDON	1379451.52	2205360.63
B8	ABANDON	1379256.86	2205543.01
B9	ABANDON	1378887.28	2205695.46
B10	ABANDON	1378712.74	2205710.66
B11	ABANDON	1378454.16	2205553.14
B19:1	REMAIN	1376705.38	2206693.93
B22:1	REMAIN	1375860.63	2207190.06
B23:1	REMAIN	1375721.97	2207349.01
B26	ABANDON	1374808.66	2207844.90
B27	ABANDON	1374575.40	2207863.30
B28	ABANDON	1374279.41	2207871.01
B29	ABANDON	1373867.33	2207974.50
B32:1	REMAIN	1373145.69	2208091.98
B34:1	REMAIN	1372617.11	2208510.90
B35	ABANDON	1372255.15	2208278.59
B37	ABANDON	1372121.48	2208242.13

MANHOLE TABLE							
MANHOLE	STATION	WORK	NORTHING	EASTING	DIAMETER	DEPTH	COVER TYPE
MH 1	1+08.25	NEW	1380994.02	2204433.34	8 FT	27.63 FT	STND
MH 2	2+35.92	NEW	1380873.63	2204475.84	6 FT	18.98 FT	WTF&C
MH 3	3+38.35	REPLACE	1380772.59	2204492.66	6 FT	18.61 FT	WTF&C
MH 4	7+58.84	NEW	1380357.88	2204562.14	6 FT	18.15 FT	WTF&C
MH 5	11+28.55	NEW	1379989.93	2204598.19	6 FT	21.28 FT	WTF&C
MH 6	12+43.53	NEW	1379874.99	2204595.32	6 FT	25.11 FT	STND
MH 7	12+68.39	NEW	1379865.08	2204618.12	6 FT	20.89 FT	WTF&C
MH 8	13+81.71	NEW	1379819.91	2204722.04	6 FT	20.39 FT	WTF&C
MH 9	15+28.97	NEW	1379722.08	2204832.11	6 FT	23.69 FT	STND
MH 10	18+52.93	NEW	1379480.04	2205047.44	6 FT	24.27 FT	WTF&C
MH 11	22+05.46	NEW	1379216.43	2205281.50	6 FT	19.91 FT	STND
MH 12	25+13.51	NEW	1378985.53	2205485.42	6 FT	18.82 FT	WTF&C
MH 13	27+80.33	NEW	1378733.60	2205573.29	6 FT	20.76 FT	WTF&C
MH 14	29+53.57	REPLACE	1378560.75	2205584.92	6 FT	21.75 FT	WTF&C
MH 15	30+98.64	REPLACE	1378416.00	2205594.66	6 FT	15.03 FT	STND
MH 16	33+11.39	REPLACE	1378248.50	2205725.83	6 FT	14.55 FT	STND
MH 17	34+06.98	REPLACE	1378204.55	2205810.72	6 FT	13.67 FT	STND
MH 18	37+11.82	REPLACE	1378068.50	2206083.52	6 FT	11.47 FT	STND
MH 19	38+95.83	REPLACE	1377931.36	2206206.20	6 FT	11.28 FT	WTF&C
MH 20	41+53.50	NEW	1377691.82	2206301.13	6 FT	12.65 FT	STND
MH 20:1	0+18.18	REPLACE	1377699.48	2206317.61	4 FT	11.12 FT	STND
MH 21	42+99.11	REPLACE	1377556.44	2206354.78	6 FT	15.35 FT	STND
MH 22	47+02.29	REPLACE	1377172.90	2206479.04	6 FT	15.67 FT	STND
MH 22:1	0+51.78	REPLACE	1377146.44	2206523.55	4 FT	8.36 FT	STND
MH 23	49+30.13	REPLACE	1376954.61	2206544.33	6 FT	16.81 FT	STND

MANHOLE TABLE							
MANHOLE	STATION	WORK	NORTHING	EASTING	DIAMETER	DEPTH	COVER TYPE
MH 24	51+82.82	REPLACE	1376712.84	2206617.80	6 FT	12.30 FT	WTF&C
MH 24:1	0+24.78	REPLACE	1376716.19	2206593.38	4 FT	10.33 FT	WTF&C
MH 25	55+67.23	REPLACE	1376352.45	2206751.57	6 FT	13.26 FT	STND
MH 26	59+46.28	REPLACE	1375997.01	2206883.26	6 FT	19.48 FT	STND
MH 27	62+36.98	REPLACE	1375808.92	2207104.91	6 FT	19.98 FT	STND
MH 27:1	0+65.00	REPLACE	1375782.81	2207045.39	4 FT	8.51 FT	STND
MH 27:2	1+24.42	NEW	1375756.67	2207098.75	4 FT	11.46 FT	STND
MH 28	64+89.92	REPLACE	1375672.43	2207317.86	6 FT	24.51 FT	STND
MH 29	68+68.14	REPLACE	1375428.53	2207606.93	6 FT	16.30 FT	WTF&C
MH 30	72+32.80	REPLACE	1375089.11	2207740.25	6 FT	17.21 FT	STND
MH 30:1	0+67.65	REPLACE	1375089.98	2207672.61	4 FT	8.56 FT	WTF&C
MH 31	74+95.33	REPLACE	1374826.58	2207741.28	6 FT	16.22 FT	STND
MH 32	79+80.91	REPLACE	1374351.13	2207839.96	6 FT	19.00 FT	STND
MH 33	83+85.73	REPLACE	1373955.73	2207926.77	6 FT	16.08 FT	STND
MH 34	84+49.99	REPLACE	1373892.83	2207939.93	6 FT	19.85 FT	STND
MH 35	85+17.56	REPLACE	1373826.98	2207955.02	6 FT	18.08 FT	STND
MH 36	86+90.18	REPLACE	1373768.02	2208117.27	6 FT	19.51 FT	STND
MH 37	90+27.56	REPLACE	1373430.70	2208110.88	6 FT	13.04 FT	WTF&C
MH 38	93+24.83	REPLACE	1373153.14	2208217.31	6 FT	14.11 FT	STND
MH 39	96+73.79	REPLACE	1372827.89	2208343.76	6 FT	14.23 FT	STND
MH 40	101+24.89	REPLACE	1372378.07	2208309.90	6 FT	11.75 FT	STND
MH 41	103+24.34	NEW	1372178.89	2208299.47	6 FT	11.75 FT	STND
MH 42	105+35.48	REPLACE	1371987.87	2208209.49	6 FT	14.21 FT	STND
MH 43	108+96.83	REPLACE	1371626.54	2208206.26	6 FT	13.52 FT	WTF&C
MH 44	109+31.62	REPLACE	1371591.76	2208206.16	6 FT	10.54 FT	STND



SEE ABOVE

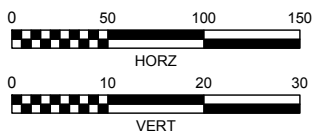
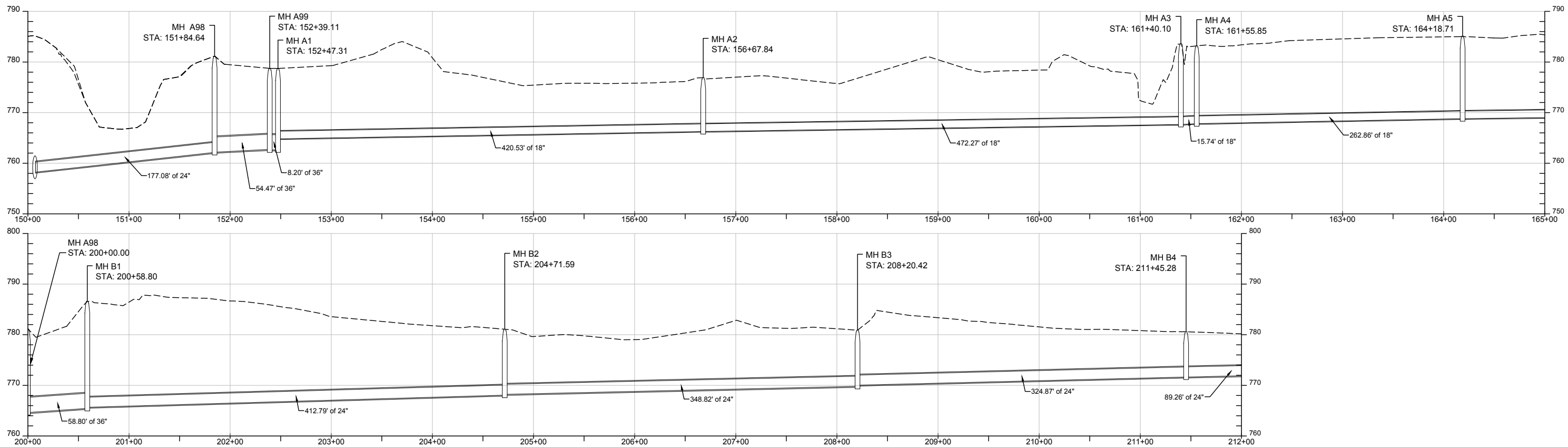
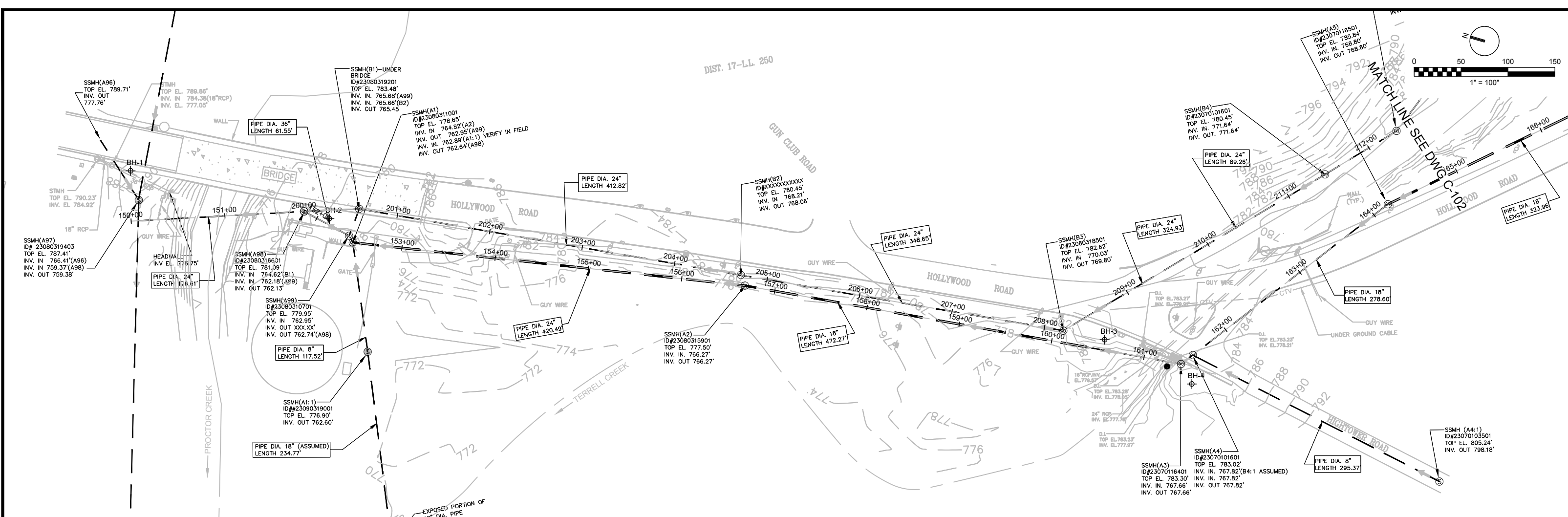
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DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS OVERALL SITE PLAN					
				SURVEYOR	FIELD	BOOKS	LL	DIST.	COUNTY
				DRAWN BY D. CORBETT	DESIGNED BY J. REYNOLDS	CHECKED BY A. BYARD	APPROVED BY T. KELLEY	DATE SEP 2017	SCALE
ENGINEER OF RECORD				PROJECT NUMBER: 674754				SHEET OF 53	

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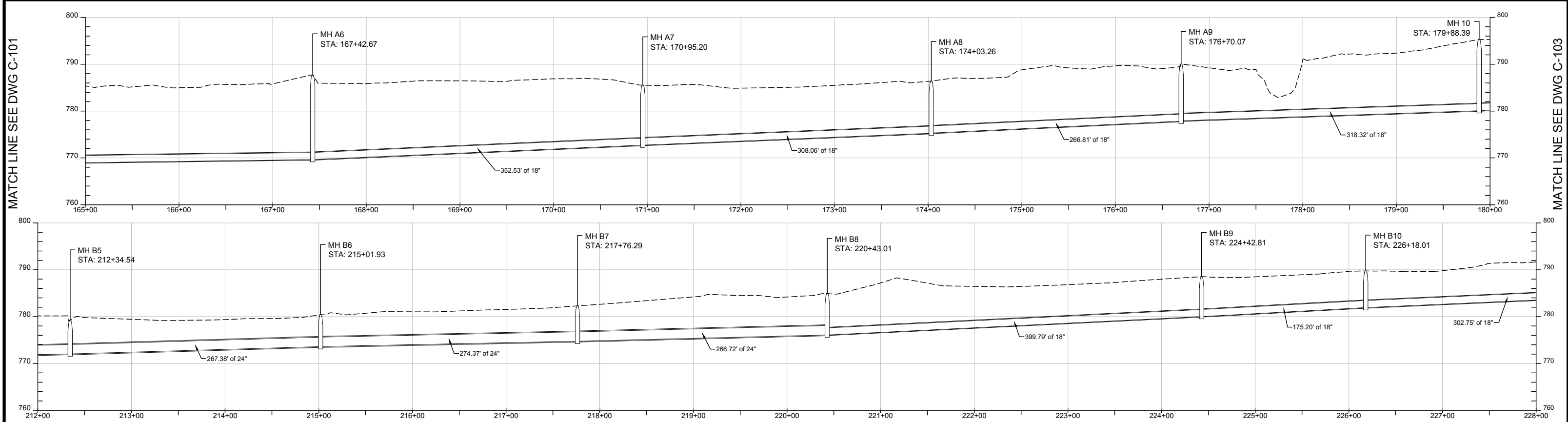
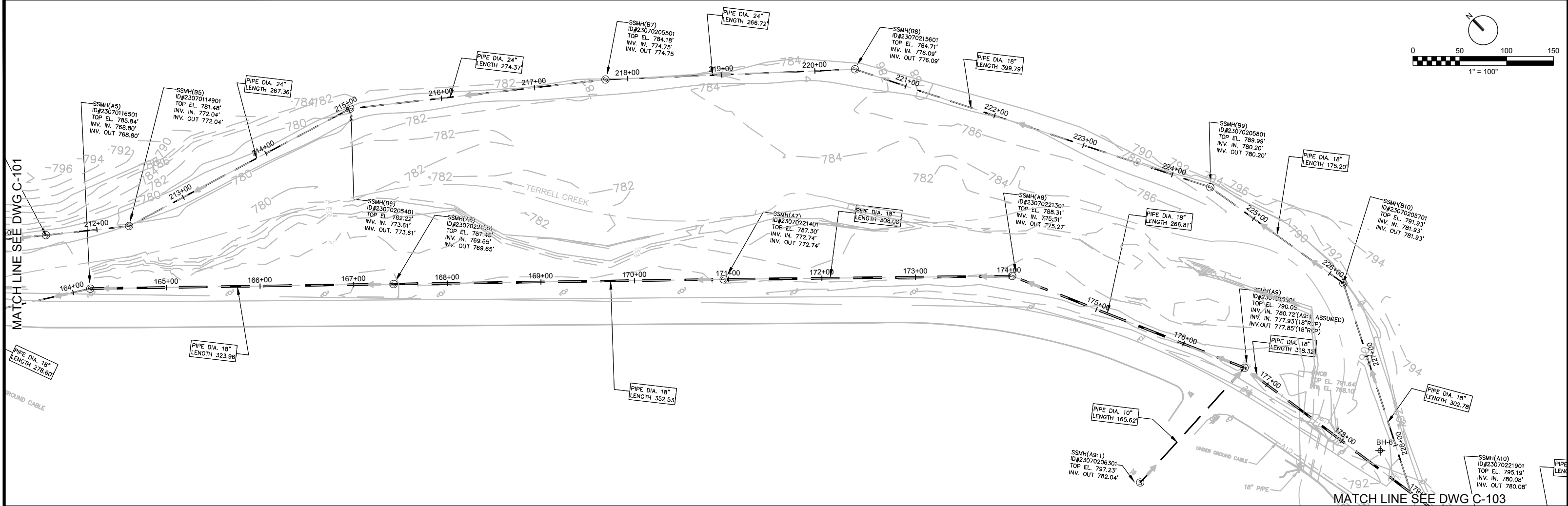


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ENGINEER OF RECORD	REVISIONS			CITY OF ATLANTA							
	NO.	DATE	DESCRIPTION	DEPARTMENT OF WATERSHED MANAGEMENT							
				OFFICE OF ENGINEERING SERVICES							
				TERRELL CREEK SEWER IMPROVEMENTS							
				EXISTING SEWERS PLAN AND PROFILE							
				SURVEYOR		FIELD BOOKS		L.L. DIST.		COUNTY	SCALE
				M HARROD				144 14 TH		FULTON	
			DRAWN BY		DESIGNED BY		CHECKED BY		APPROVED BY	DATE	
			D. CORBETT		J. REYNOLDS		A. BYARD		T. KELLEY	SEP 2017	
ENGINEER OF RECORD			PROJECT NUMBER:				674754			SHEET OF 53	

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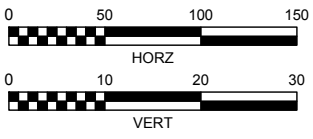
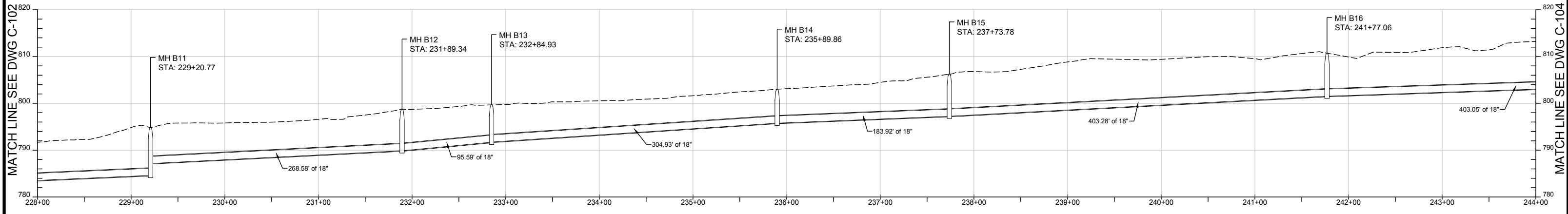
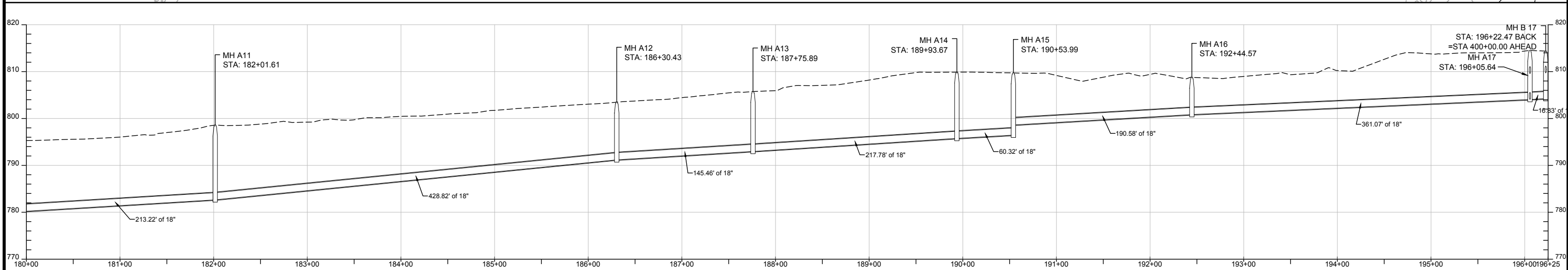
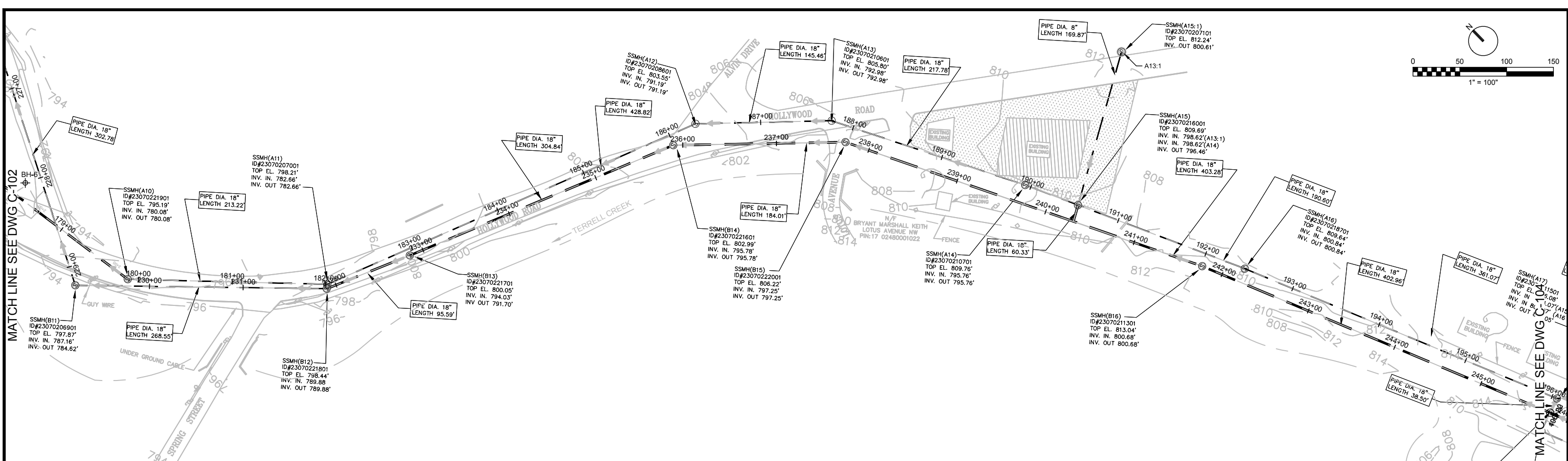
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CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES									
TERRELL CREEK SEWER IMPROVEMENTS EXISTING SEWERS PLAN AND PROFILE									
SURVEYOR		FIELD BOOKS		L.L.		DIST.		COUNTY	
M HARROD				144		14 TH		FULTON	
DRAWN BY D. CORBETT		DESIGNED BY J. REYNOLDS		CHECKED BY A. BYARD		APPROVED BY T. KELLEY		DATE SEP 2017	
PROJECT NUMBER: 674754				SHEET OF 53					

ENGINEER OF RECORD

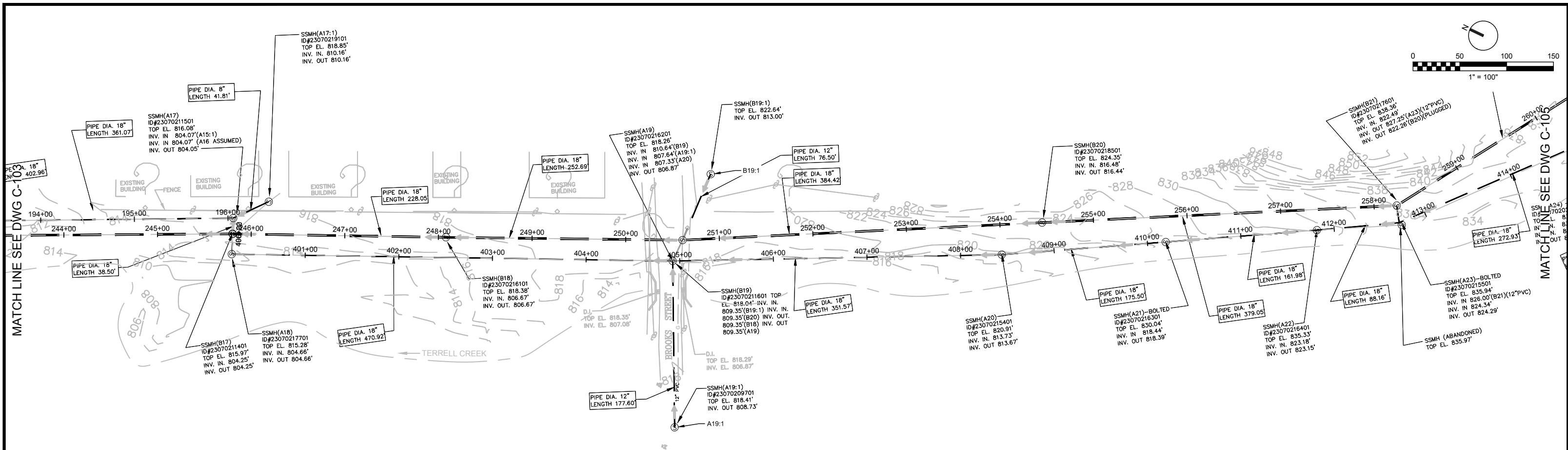
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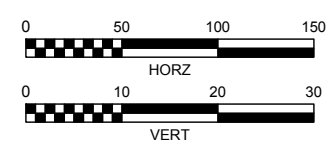
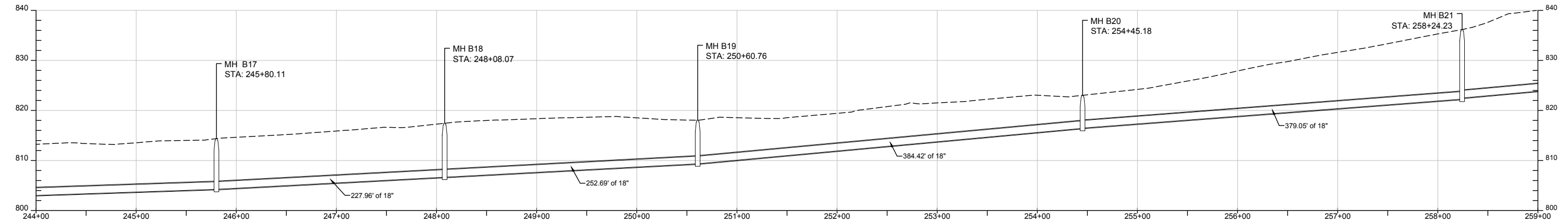
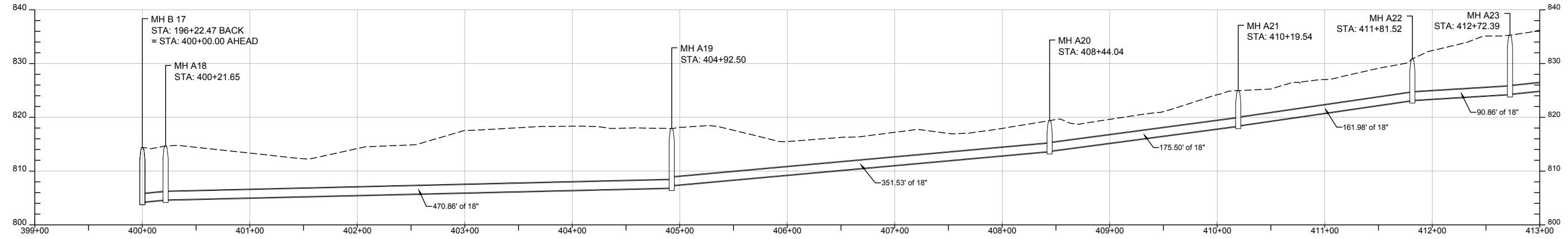
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	NO.	DATE	DESCRIPTION								
				TERRELL CREEK SEWER IMPROVEMENTS EXISTING SEWERS PLAN AND PROFILE							
				SURVEYOR M HARROD	FIELD BOOKS	L.L. DIST. 144 14 TH	COUNTY FULTON	SCALE			
				DRAWN BY D. CORBETT	DESIGNED BY J. REYNOLDS	CHECKED BY A. BYARD	APPROVED BY T. KELLEY	DATE SEP 2017			
	ENGINEER OF RECORD			PROJECT NUMBER: 674754				7		SHEET OF 53	



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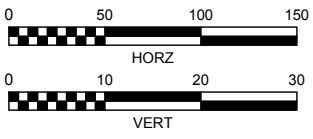
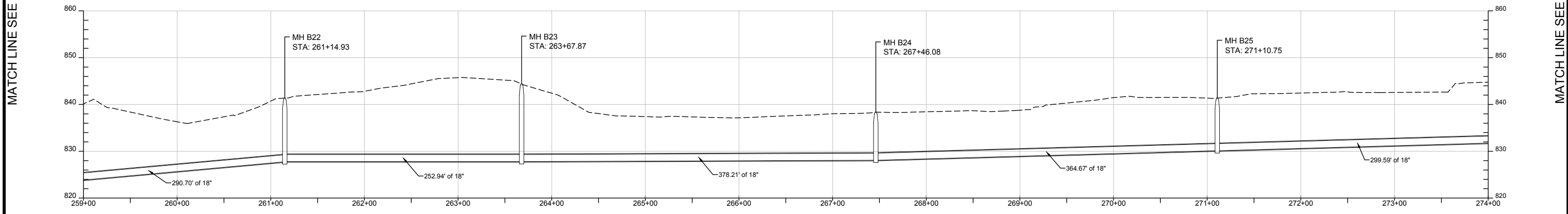
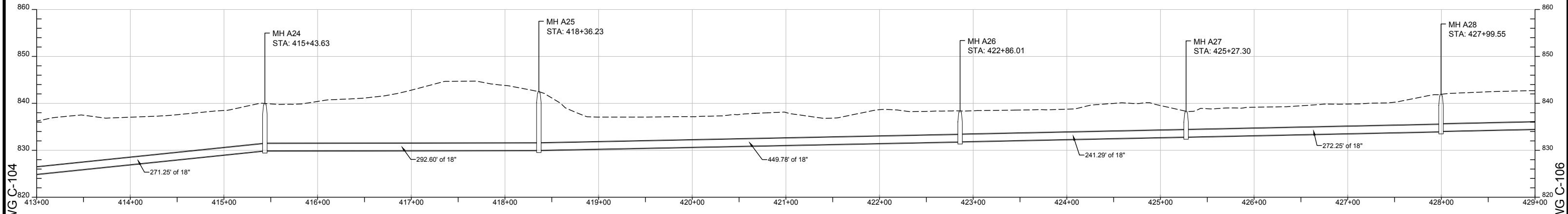
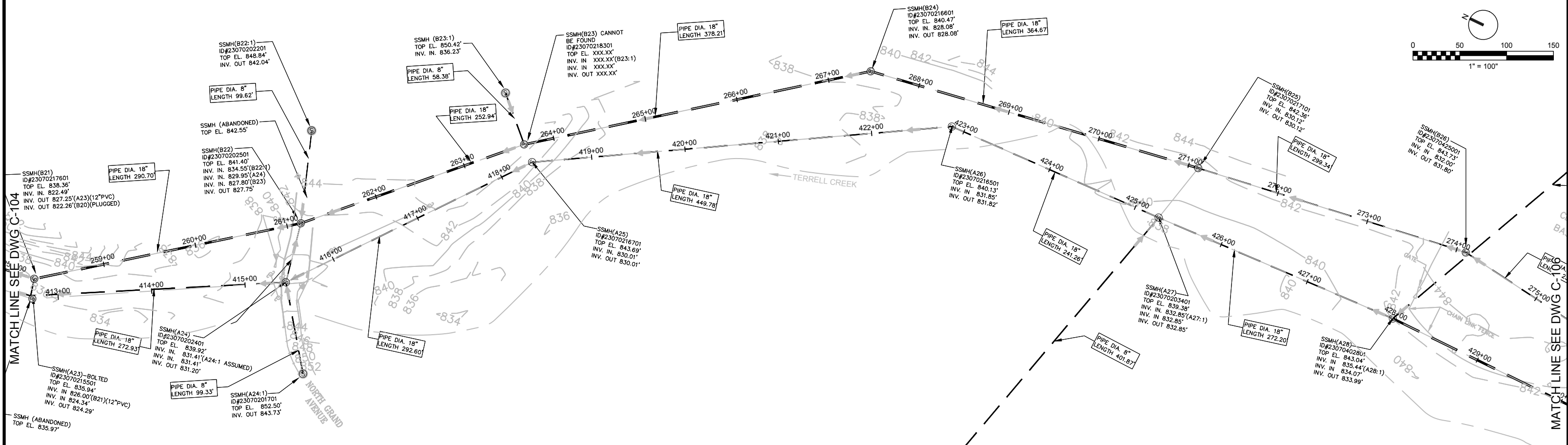


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NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS EXISTING SEWERS PLAN AND PROFILE					
				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY
				M. HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	
				D. CORBETT	J. REYNOLDS	A. BYARD	T. KELLEY	SEP 2017	
ENGINEER OF RECORD				PROJECT NUMBER: 674754				SHEET OF	53

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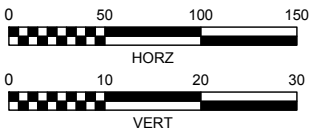
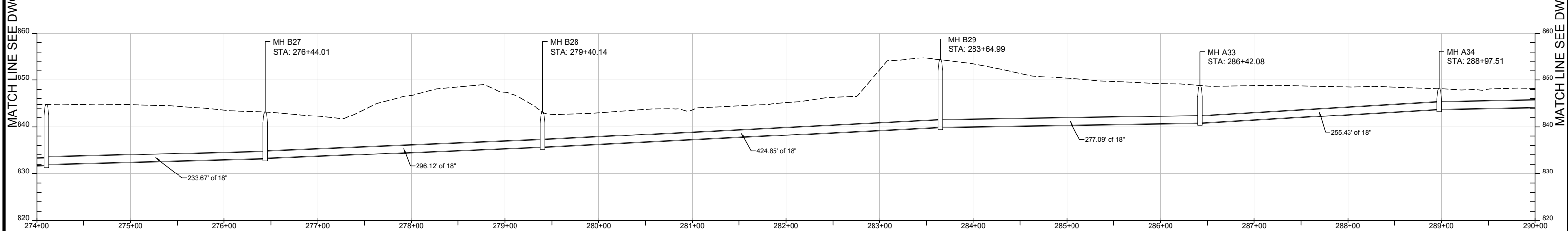
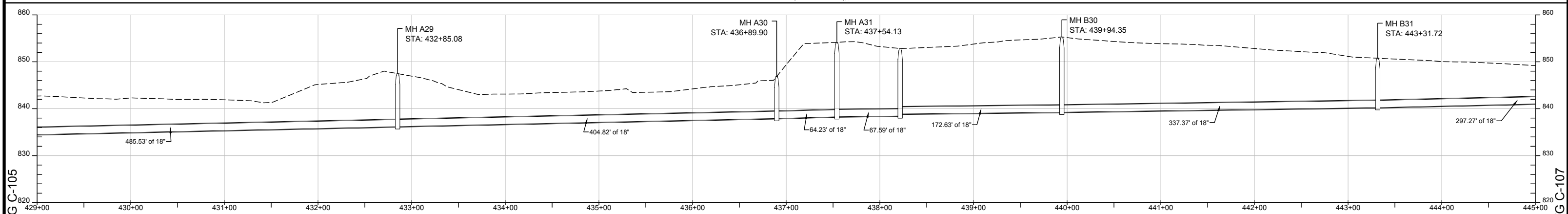
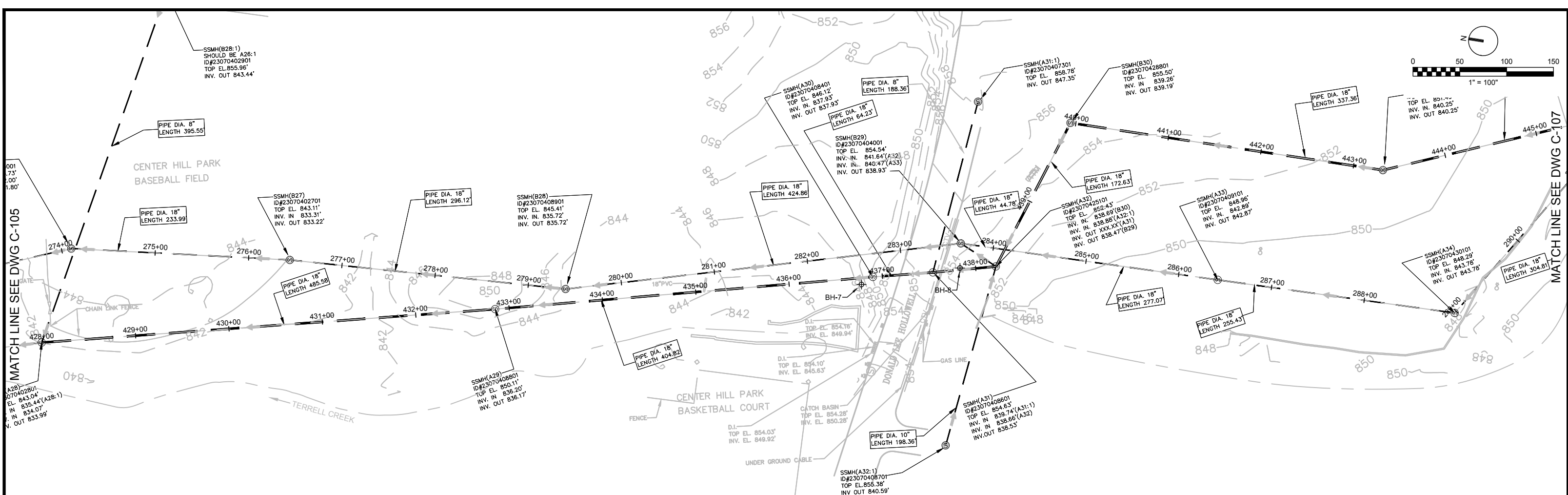


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REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS EXISTING SEWERS PLAN AND PROFILE					
				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY
				M HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED BY	DATE
				D. CORBETT	J. REYNOLDS	A. BYARD	T. KELLEY	SEP 2017	
ENGINEER OF RECORD				PROJECT NUMBER: 674754				SHEET OF 53	

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REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS EXISTING SEWERS PLAN AND PROFILE					
				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY
				M. HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	DATE
				D. CORBETT	J. REYNOLDS	A. BYARD	T. KELLEY	SEP 2017	
ENGINEER OF RECORD				PROJECT NUMBER: 674754				SHEET 10 OF 53	

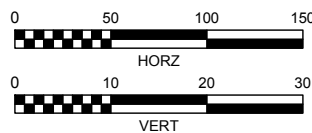
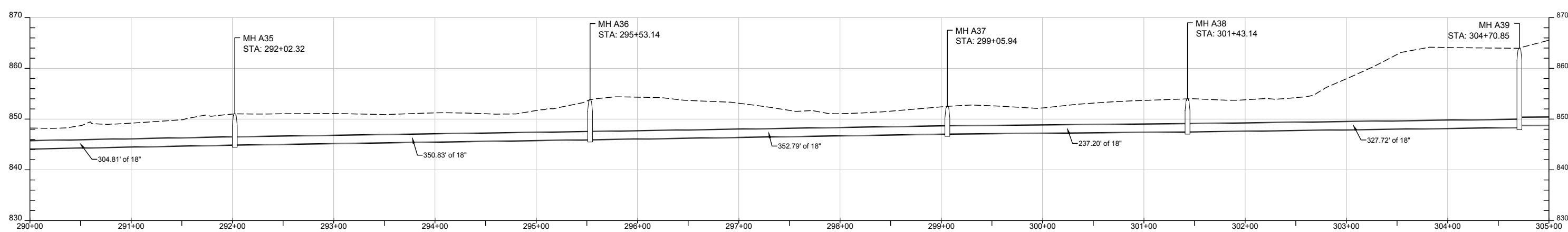
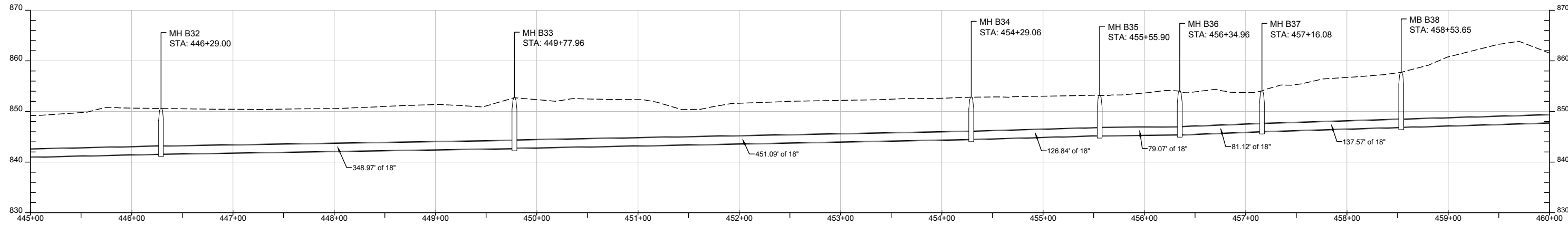
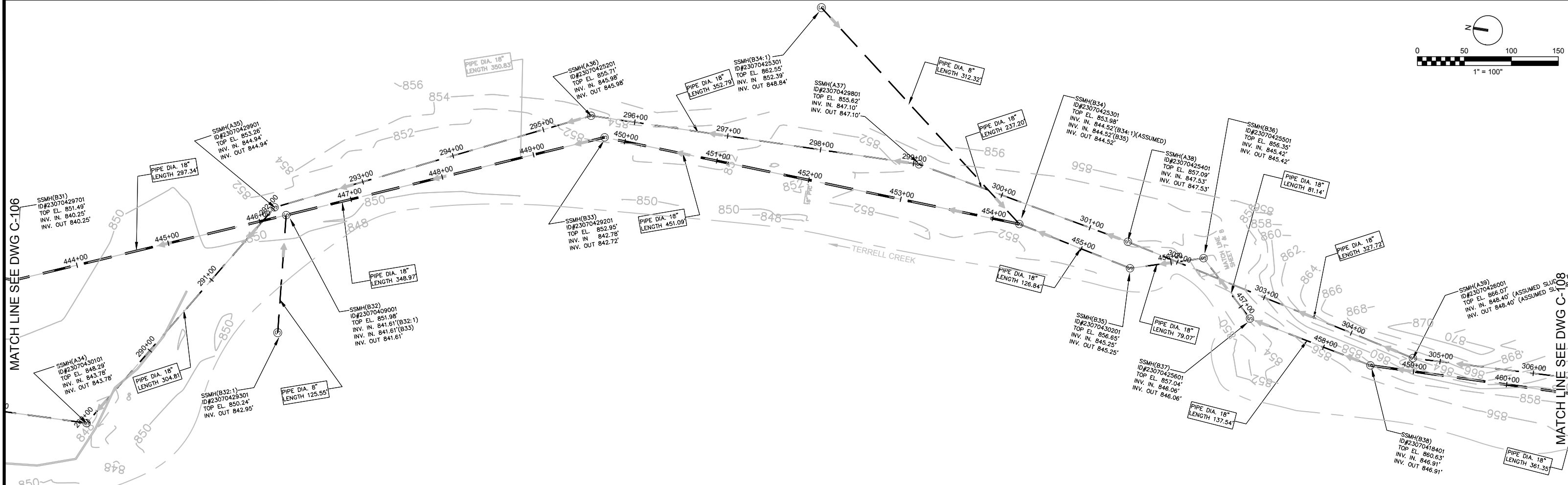
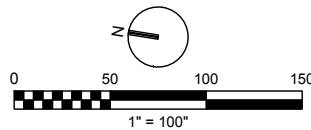
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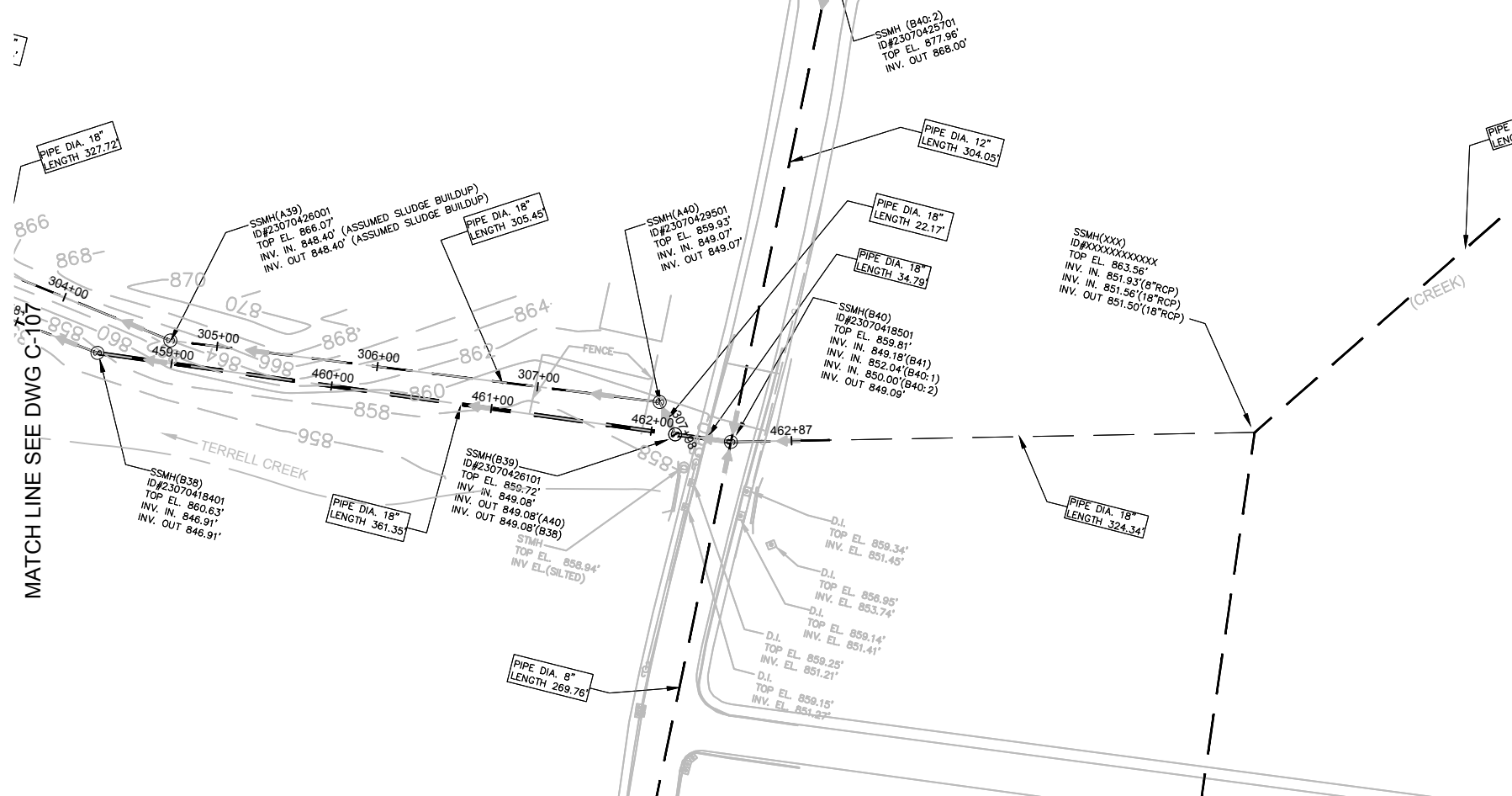
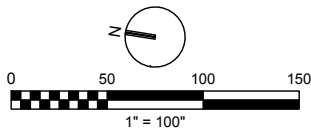
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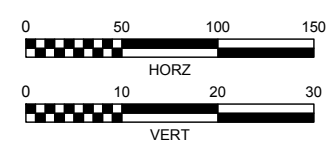
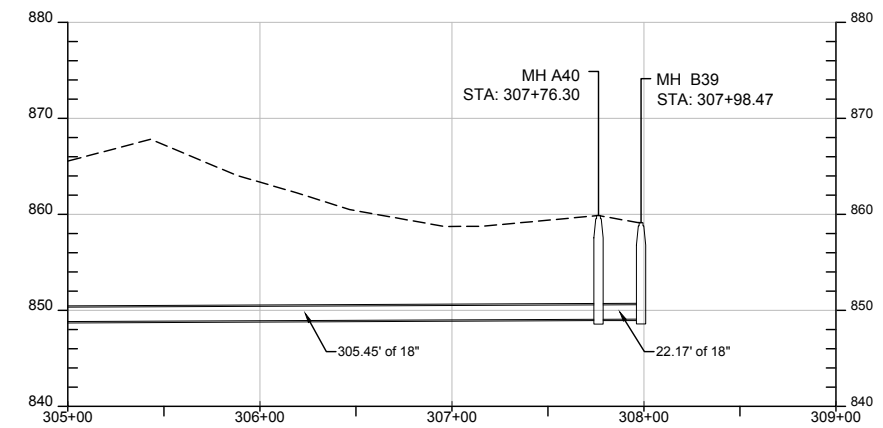
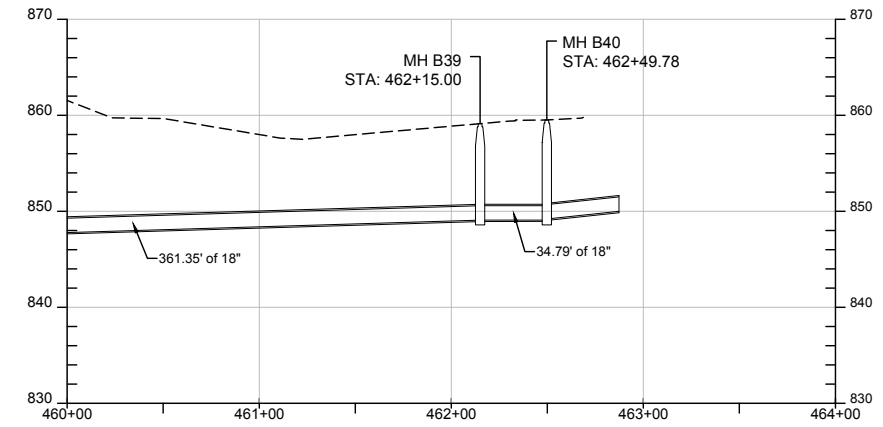
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REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS EXISTING SEWERS PLAN AND PROFILE					
				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY
				M. HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED BY	DATE
				M. GERIK	J. REYNOLDS	A. BYARD		T. KELLEY	SEP 2017
ENGINEER OF RECORD				PROJECT NUMBER: 674754				SHEET OF 53	



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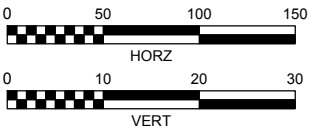
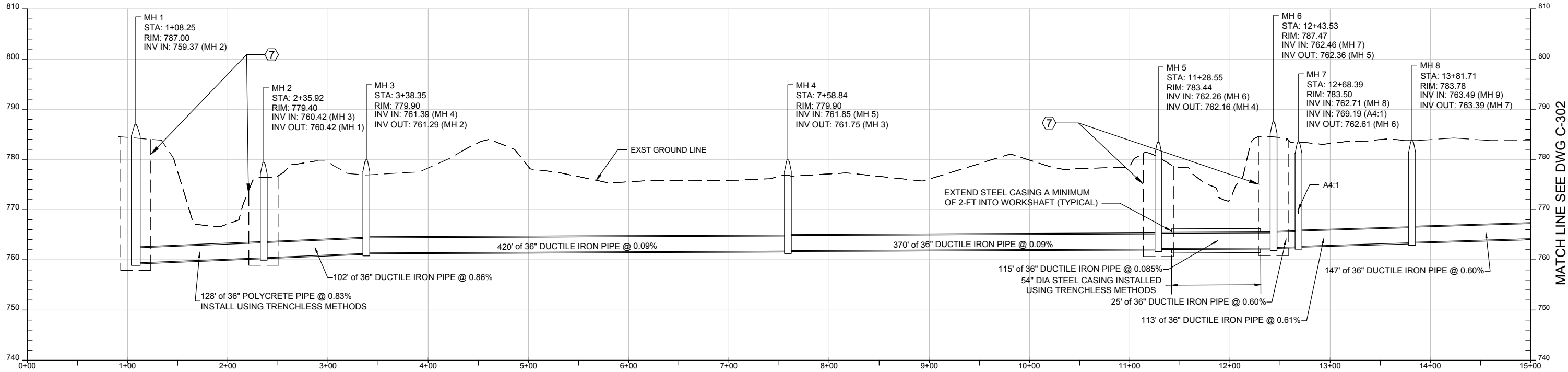
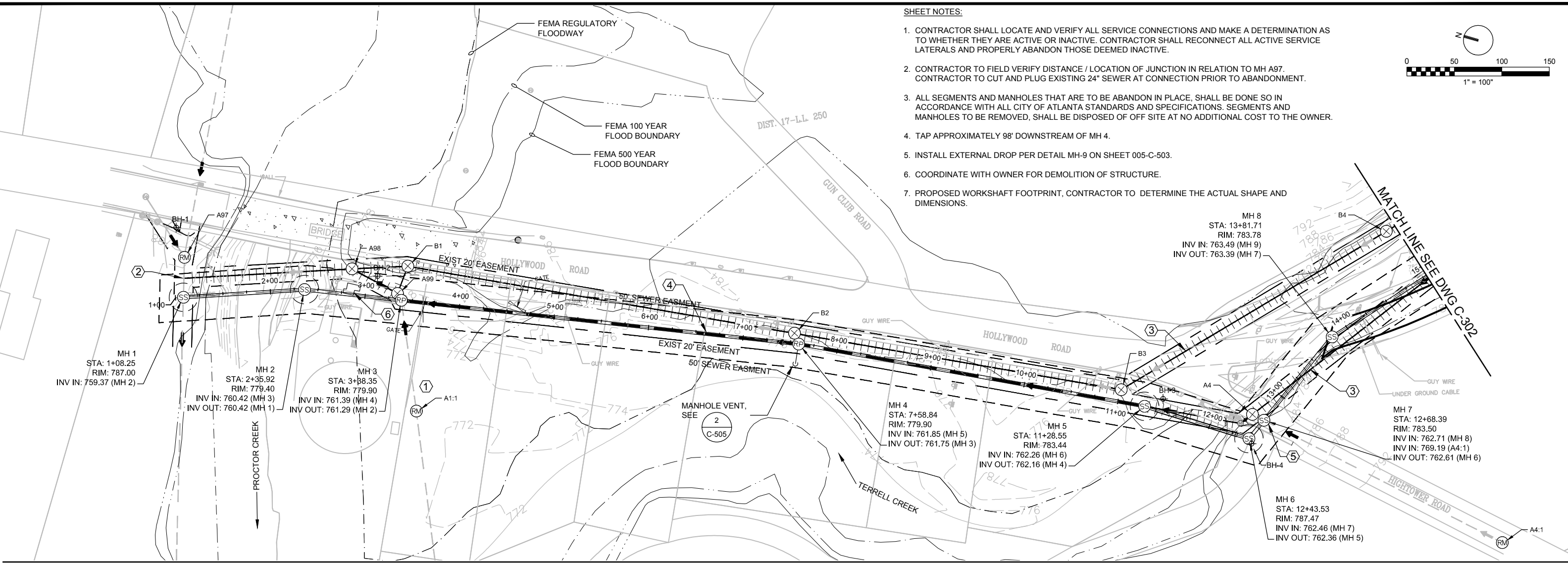
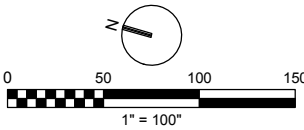
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REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES						
NO.	DATE	DESCRIPTION	TERRELL CREEK SEWER IMPROVEMENTS EXISTING SEWERS PLAN AND PROFILE						
			SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE
			M HARROD			144	14 TH	FULTON	
			DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	BY	DATE
			D. CORBETT	J. REYNOLDS	A. BYARD		T. KELLEY		SEP 2017
ENGINEER OF RECORD			PROJECT NUMBER: 674754			SHEET 12 OF 53			

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SHEET NOTES:

1. CONTRACTOR SHALL LOCATE AND VERIFY ALL SERVICE CONNECTIONS AND MAKE A DETERMINATION AS TO WHETHER THEY ARE ACTIVE OR INACTIVE. CONTRACTOR SHALL RECONNECT ALL ACTIVE SERVICE LATERALS AND PROPERLY ABANDON THOSE DEEMED INACTIVE.
2. CONTRACTOR TO FIELD VERIFY DISTANCE / LOCATION OF JUNCTION IN RELATION TO MH A97. CONTRACTOR TO CUT AND PLUG EXISTING 24" SEWER AT CONNECTION PRIOR TO ABANDONMENT.
3. ALL SEGMENTS AND MANHOLES THAT ARE TO BE ABANDON IN PLACE, SHALL BE DONE SO IN ACCORDANCE WITH ALL CITY OF ATLANTA STANDARDS AND SPECIFICATIONS. SEGMENTS AND MANHOLES TO BE REMOVED, SHALL BE DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER.
4. TAP APPROXIMATELY 98' DOWNSTREAM OF MH 4.
5. INSTALL EXTERNAL DROP PER DETAIL MH-9 ON SHEET 005-C-503.
6. COORDINATE WITH OWNER FOR DEMOLITION OF STRUCTURE.
7. PROPOSED WORKSHAFT FOOTPRINT, CONTRACTOR TO DETERMINE THE ACTUAL SHAPE AND DIMENSIONS.



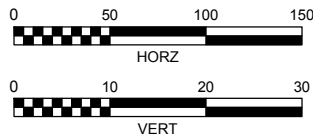
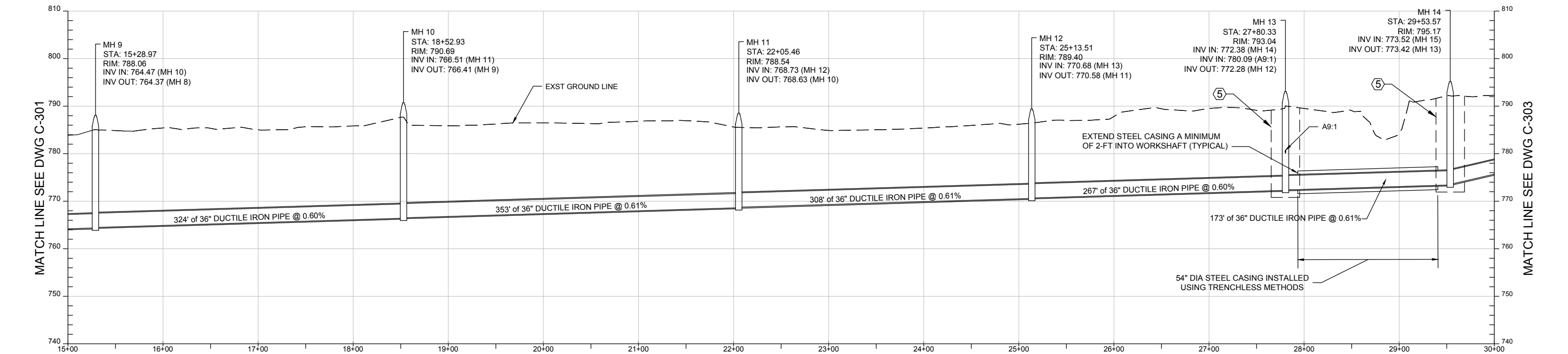
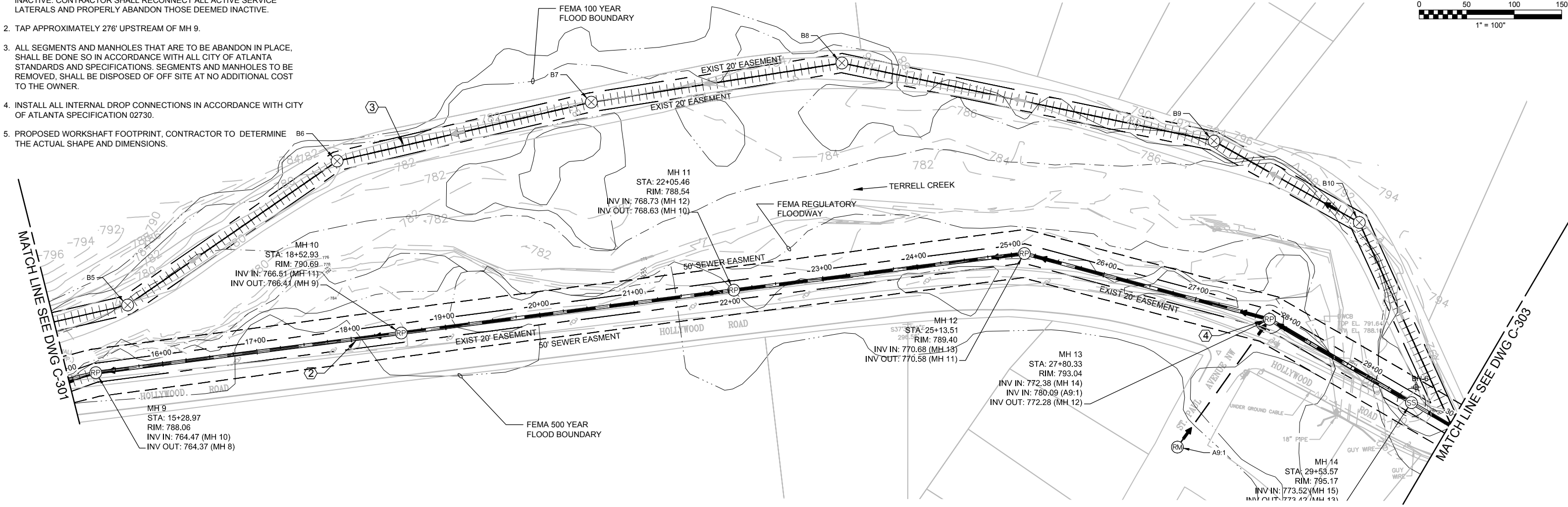
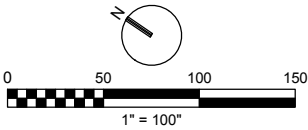
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ENGINEER OF RECORD	REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES							
	NO.	DATE	DESCRIPTION								
				TERRELL CREEK SEWER IMPROVEMENTS PLAN AND PROFILE							
				SURVEYOR M HARROD		FIELD BOOKS 144		DIST. 14 TH		COUNTY FULTON	SCALE
				DRAWN BY M. GERIK		DESIGNED BY J. REYNOLDS		CHECKED BY A. BYARD		APPROVED BY T. KELLEY	DATE SEP 2017
				PROJECT NUMBER: 674754				13 SHEET OF 53			

SHEET NOTES:

1. CONTRACTOR SHALL LOCATE AND VERIFY ALL SERVICE CONNECTIONS AND MAKE A DETERMINATION AS TO WHETHER THEY ARE ACTIVE OR INACTIVE. CONTRACTOR SHALL RECONNECT ALL ACTIVE SERVICE LATERALS AND PROPERLY ABANDON THOSE DEEMED INACTIVE.
2. TAP APPROXIMATELY 276' UPSTREAM OF MH 9.
3. ALL SEGMENTS AND MANHOLES THAT ARE TO BE ABANDON IN PLACE, SHALL BE DONE SO IN ACCORDANCE WITH ALL CITY OF ATLANTA STANDARDS AND SPECIFICATIONS. SEGMENTS AND MANHOLES TO BE REMOVED, SHALL BE DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER.
4. INSTALL ALL INTERNAL DROP CONNECTIONS IN ACCORDANCE WITH CITY OF ATLANTA SPECIFICATION 02730.
5. PROPOSED WORKSHAFT FOOTPRINT, CONTRACTOR TO DETERMINE THE ACTUAL SHAPE AND DIMENSIONS.



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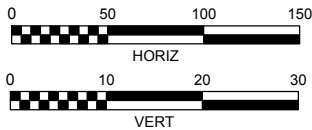
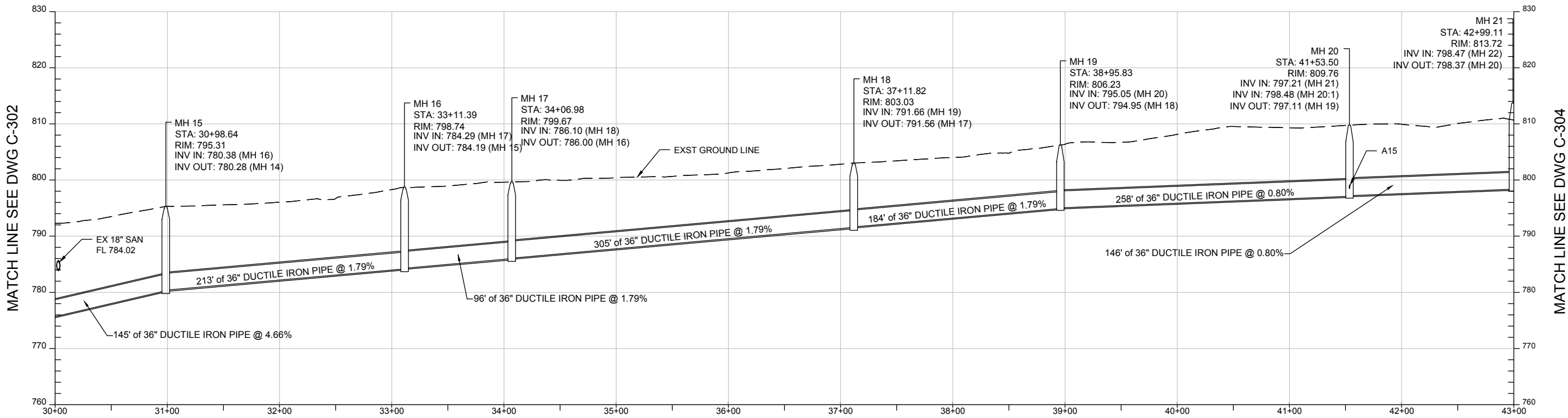
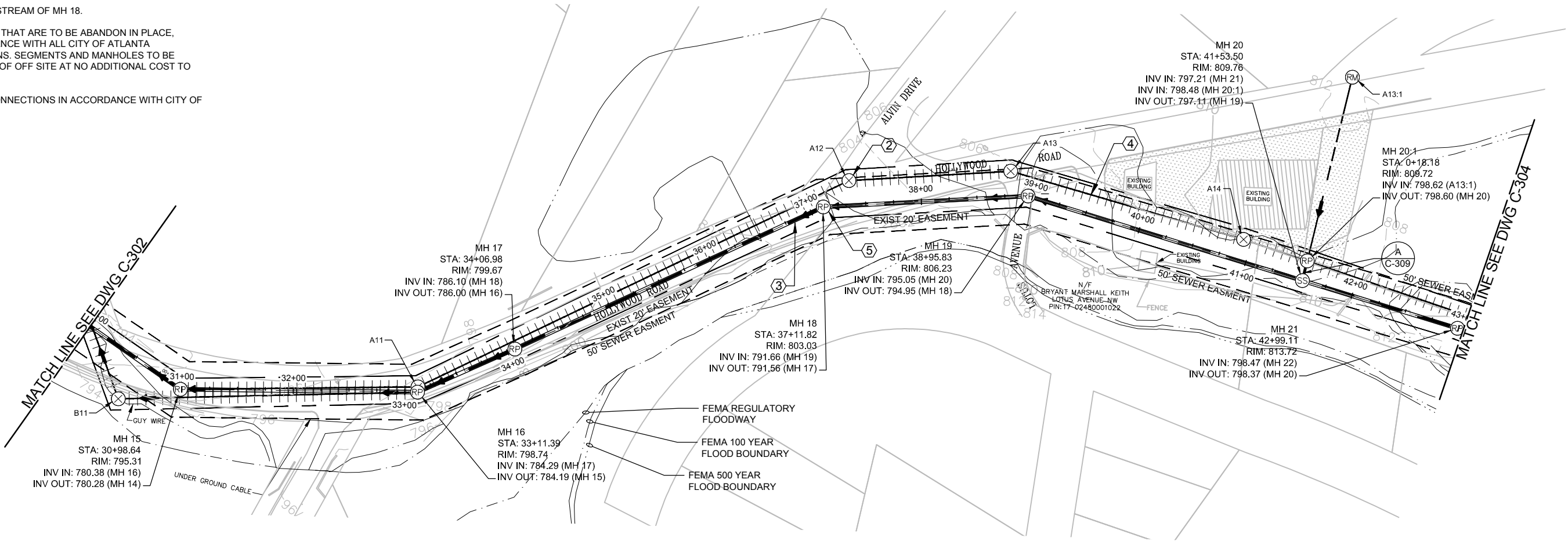
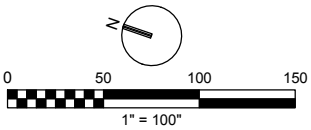
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DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED										
	REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES						
	NO.	DATE	DESCRIPTION							
				TERRELL CREEK SEWER IMPROVEMENTS PLAN AND PROFILE						
				SURVEYOR M HARROD		FIELD BOOKS		L.L. 144	DIST. 14 TH	COUNTY FULTON
			DRAWN BY M. GERIK		DESIGNED BY J. REYNALDS		CHECKED A. BYARD	BY T. KELLEY	APPROVED BY	DATE SEP 2017
ENGINEER OF RECORD				PROJECT NUMBER: 674754				14 SHEET OF 53		

SHEET NOTES:

1. CONTRACTOR SHALL LOCATE AND VERIFY ALL SERVICE CONNECTIONS AND MAKE A DETERMINATION AS TO WHETHER THEY ARE ACTIVE OR INACTIVE. CONTRACTOR SHALL RECONNECT ALL ACTIVE SERVICE LATERALS AND PROPERLY ABANDON THOSE DEEMED INACTIVE.
2. CONTRACTOR TO COORDINATE WITH OWNER TO DETERMINE SERVICE STATUS OF 8"-10" SEWER LINE IN MH A12.
3. TAP APPROXIMATELY 43' DOWNSTREAM OF MH 18.
4. ALL SEGMENTS AND MANHOLES THAT ARE TO BE ABANDON IN PLACE, SHALL BE DONE SO IN ACCORDANCE WITH ALL CITY OF ATLANTA STANDARDS AND SPECIFICATIONS. SEGMENTS AND MANHOLES TO BE REMOVED, SHALL BE DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER.
5. INSTALL ALL INTERNAL DROP CONNECTIONS IN ACCORDANCE WITH CITY OF ATLANTA SPECIFICATION 02730.



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A WORLD OF IDEAS

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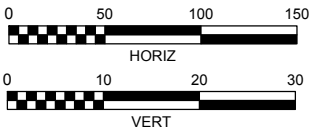
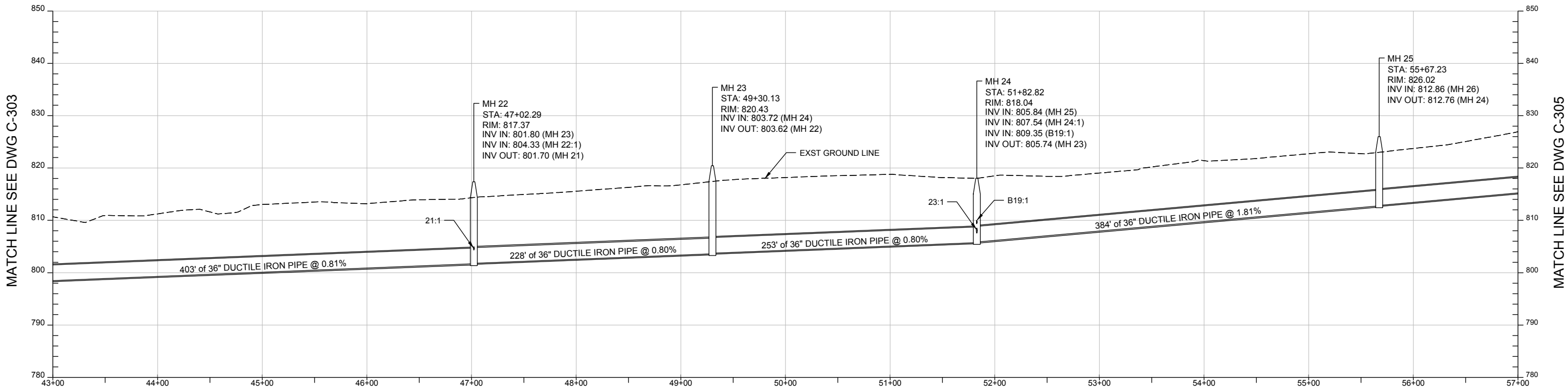
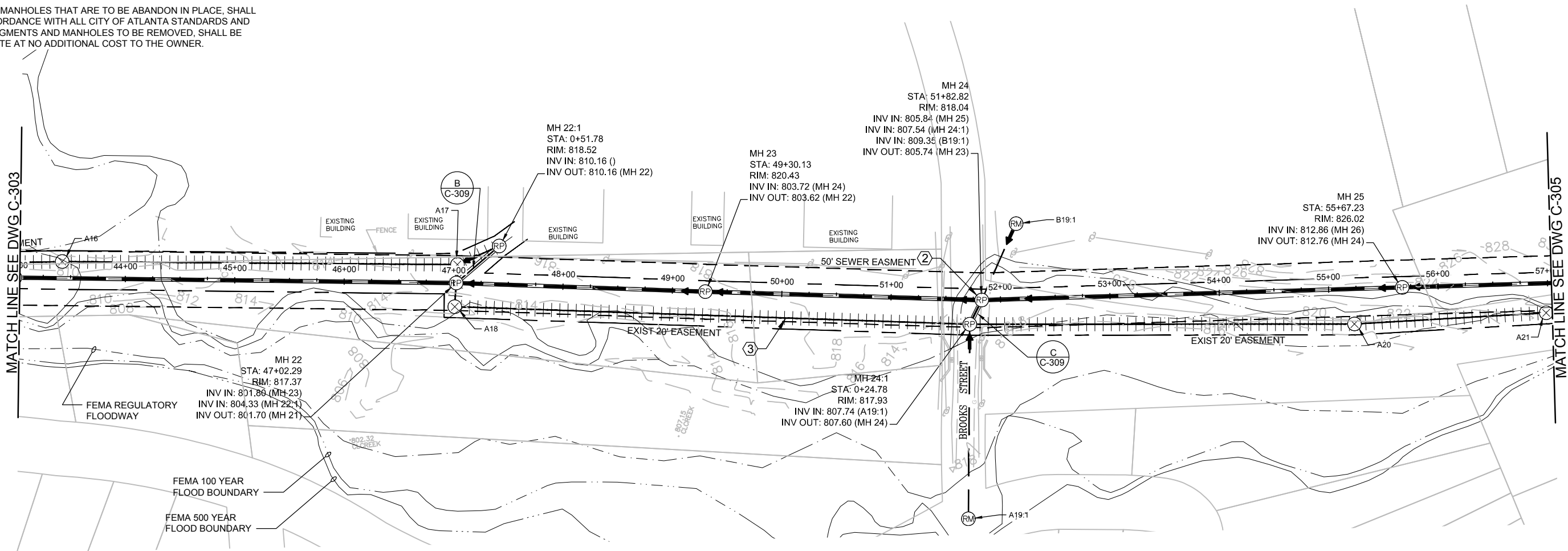
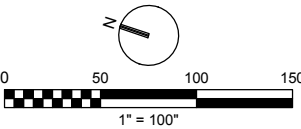
C-303

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DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED											
	REVISIONS			CITY OF ATLANTA							
	NO.	DATE	DESCRIPTION	DEPARTMENT OF WATERSHED MANAGEMENT							
				OFFICE OF ENGINEERING SERVICES							
				TERRELL CREEK SEWER IMPROVEMENTS							
				PLAN AND PROFILE							
				SURVEYOR		FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE
				M HARROD				144	14 TH	FULTON	
				DRAWN BY		DESIGNED BY	CHECKED BY	APPROVED BY		DATE	
			M. GERIK		J. REYNOLDS	A. BYARD	T. KELLEY		SEP 2017		
ENGINEER OF RECORD				PROJECT NUMBER:			674754			SHEET OF 53	

SHEET NOTES:

1. CONTRACTOR SHALL LOCATE AND VERIFY ALL SERVICE CONNECTIONS AND MAKE A DETERMINATION AS TO WHETHER THEY ARE ACTIVE OR INACTIVE. CONTRACTOR SHALL RECONNECT ALL ACTIVE SERVICE LATERALS AND PROPERLY ABANDON THOSE DEEMED INACTIVE.
2. INSTALL ALL INTERNAL DROP CONNECTIONS IN ACCORDANCE WITH CITY OF ATLANTA SPECIFICATION 02730.
3. ALL SEGMENTS AND MANHOLES THAT ARE TO BE ABANDON IN PLACE, SHALL BE DONE SO IN ACCORDANCE WITH ALL CITY OF ATLANTA STANDARDS AND SPECIFICATIONS. SEGMENTS AND MANHOLES TO BE REMOVED, SHALL BE DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER.



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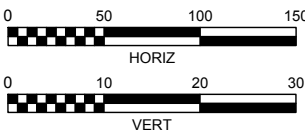
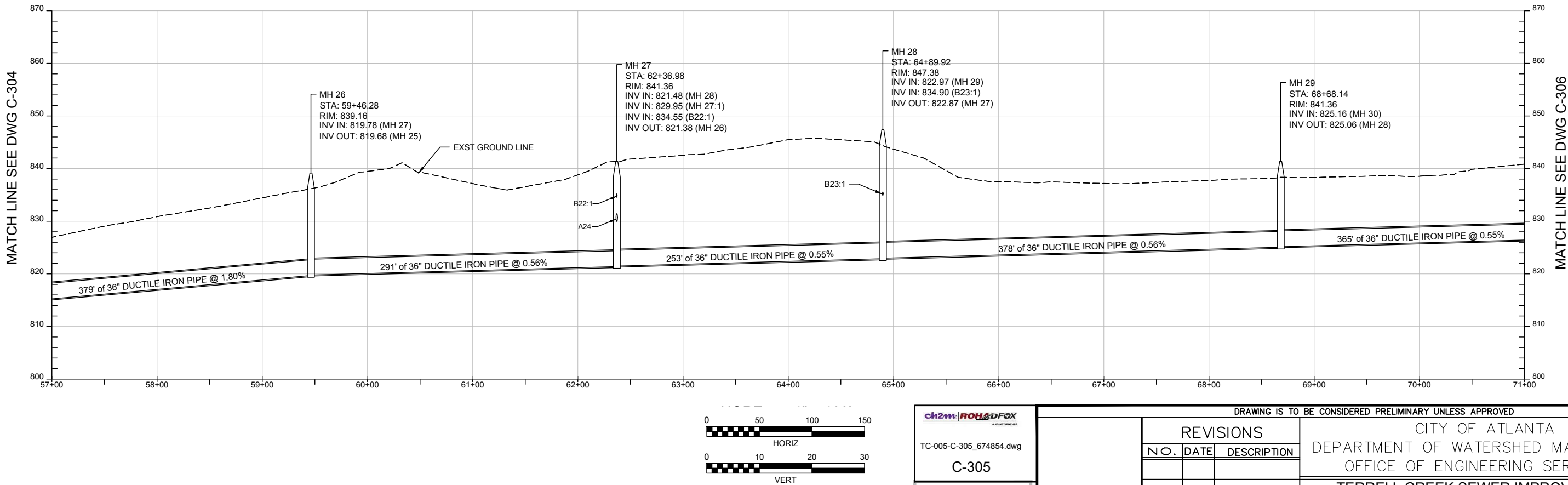
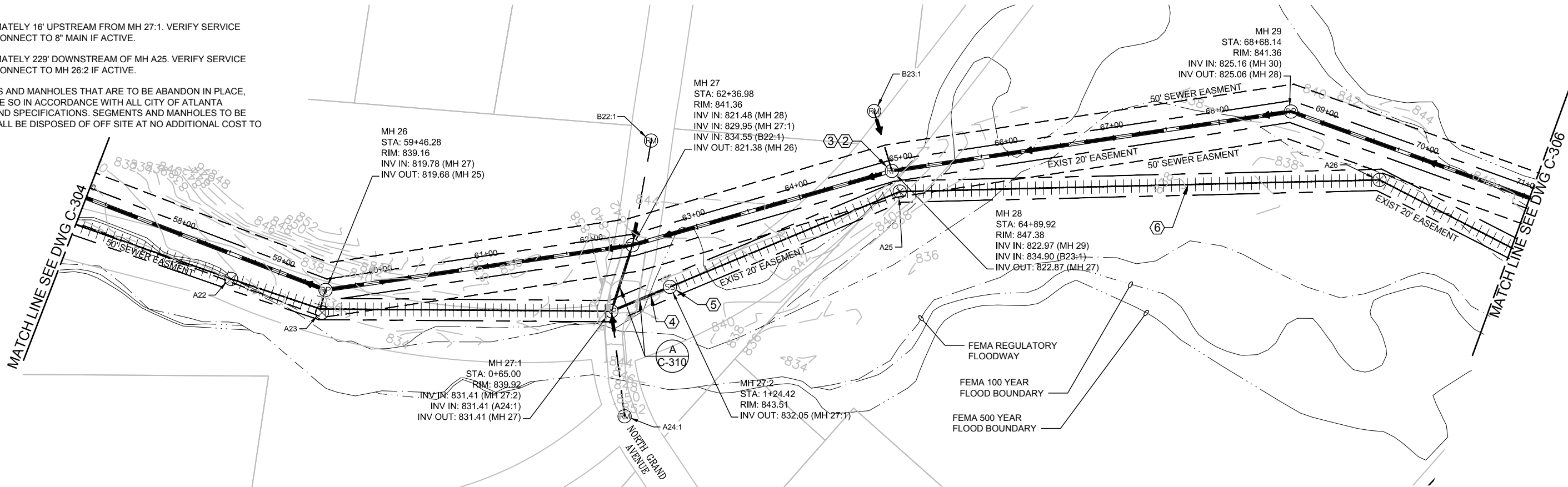
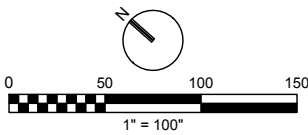
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	REVISIONS			CITY OF ATLANTA						
	NO.	DATE	DESCRIPTION	DEPARTMENT OF WATERSHED MANAGEMENT						
				OFFICE OF ENGINEERING SERVICES						
				TERRELL CREEK SEWER IMPROVEMENTS						
				PLAN AND PROFILE						
				SURVEYOR M HARROD		FIELD BOOKS	L.L. 144	DIST. 14 TH	COUNTY FULTON	SCALE
				DRAWN BY M. GERIK		DESIGNED BY J. REYNOLDS	CHECKED BY A. BYARD	APPROVED BY T. KELLEY	DATE SEP 2017	
ENGINEER OF RECORD				PROJECT NUMBER: 674754				16	SHEET OF 53	

SHEET NOTES:

1. CONTRACTOR SHALL LOCATE AND VERIFY ALL SERVICE CONNECTIONS AND MAKE A DETERMINATION AS TO WHETHER THEY ARE ACTIVE OR INACTIVE. CONTRACTOR SHALL RECONNECT ALL ACTIVE SERVICE LATERALS AND PROPERLY ABANDON THOSE DEEMED INACTIVE.
2. INSTALL ALL INTERNAL DROP CONNECTIONS IN ACCORDANCE WITH CITY OF ATLANTA SPECIFICATION 02730.
3. CONTRACTOR TO LOCATE / UNCOVER MANHOLE AND CONFIRM ANY ACTIVE CONNECTION.
4. TAP APPROXIMATELY 16' UPSTREAM FROM MH 27:1. VERIFY SERVICE STATUS AND CONNECT TO 8" MAIN IF ACTIVE.
5. TAP APPROXIMATELY 229' DOWNSTREAM OF MH A25. VERIFY SERVICE STATUS AND CONNECT TO MH 26:2 IF ACTIVE.
6. ALL SEGMENTS AND MANHOLES THAT ARE TO BE ABANDON IN PLACE, SHALL BE DONE SO IN ACCORDANCE WITH ALL CITY OF ATLANTA STANDARDS AND SPECIFICATIONS. SEGMENTS AND MANHOLES TO BE REMOVED, SHALL BE DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER.



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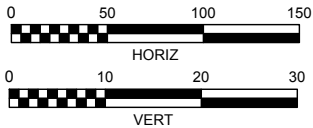
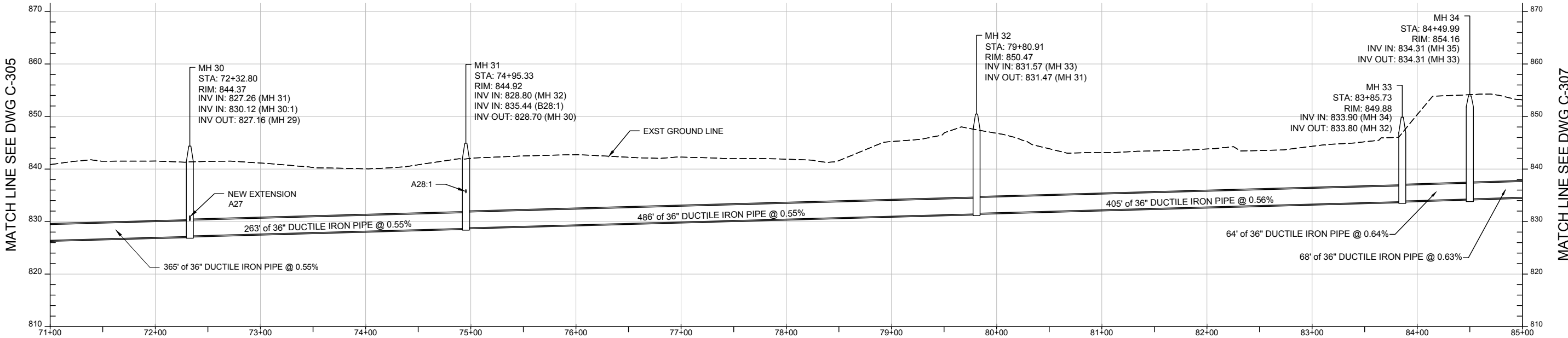
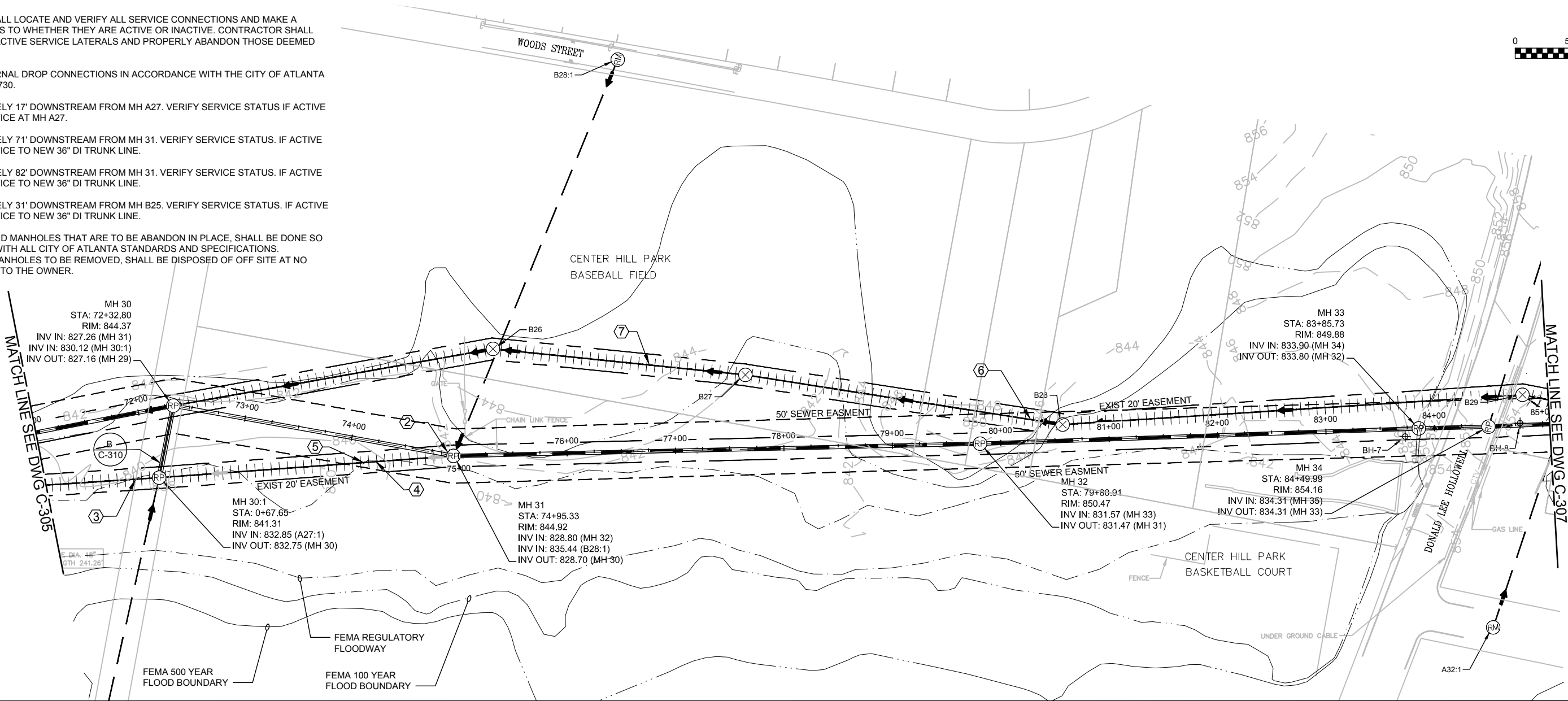
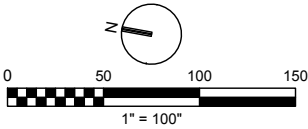
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REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS PLAN AND PROFILE					
				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY
				M HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	BY
				M. GERIK	J. REYNOLDS	A. BYARD		T. KELLEY	
				PROJECT NUMBER:	674754				SHEET
									OF
									53

SHEET NOTES:

1. CONTRACTOR SHALL LOCATE AND VERIFY ALL SERVICE CONNECTIONS AND MAKE A DETERMINATION AS TO WHETHER THEY ARE ACTIVE OR INACTIVE. CONTRACTOR SHALL RECONNECT ALL ACTIVE SERVICE LATERALS AND PROPERLY ABANDON THOSE DEEMED INACTIVE.
2. INSTALL ALL INTERNAL DROP CONNECTIONS IN ACCORDANCE WITH THE CITY OF ATLANTA SPECIFICATION 02730.
3. TAP APPROXIMATELY 17' DOWNSTREAM FROM MH A27. VERIFY SERVICE STATUS IF ACTIVE RECONNECT SERVICE AT MH A27.
4. TAP APPROXIMATELY 71' DOWNSTREAM FROM MH 31. VERIFY SERVICE STATUS. IF ACTIVE RECONNECT SERVICE TO NEW 36" DI TRUNK LINE.
5. TAP APPROXIMATELY 82' DOWNSTREAM FROM MH 31. VERIFY SERVICE STATUS. IF ACTIVE RECONNECT SERVICE TO NEW 36" DI TRUNK LINE.
6. TAP APPROXIMATELY 31' DOWNSTREAM FROM MH B25. VERIFY SERVICE STATUS. IF ACTIVE RECONNECT SERVICE TO NEW 36" DI TRUNK LINE.
7. ALL SEGMENTS AND MANHOLES THAT ARE TO BE ABANDON IN PLACE, SHALL BE DONE SO IN ACCORDANCE WITH ALL CITY OF ATLANTA STANDARDS AND SPECIFICATIONS. SEGMENTS AND MANHOLES TO BE REMOVED, SHALL BE DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER.



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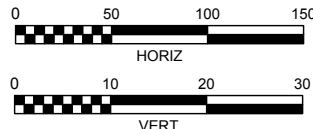
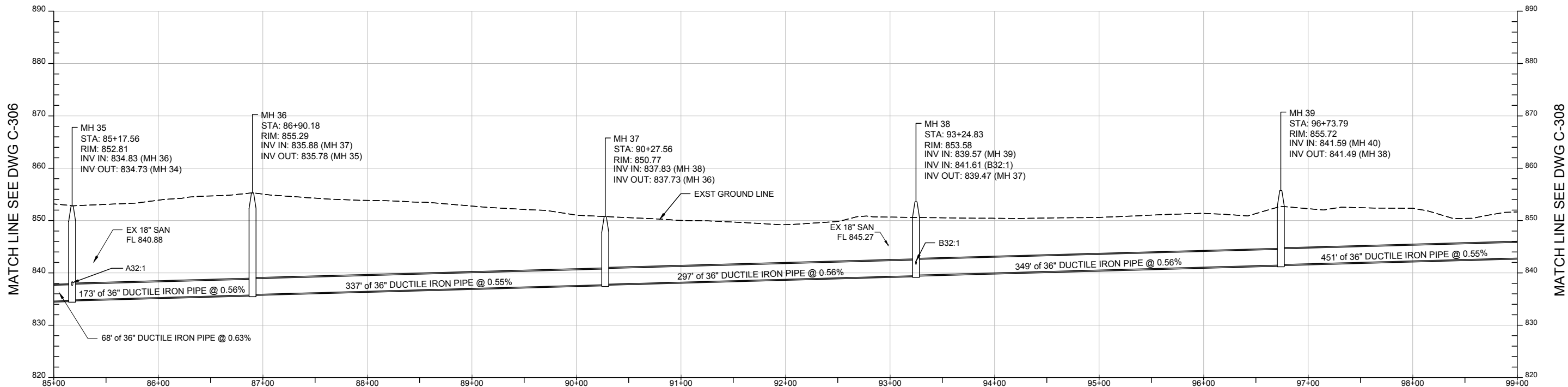
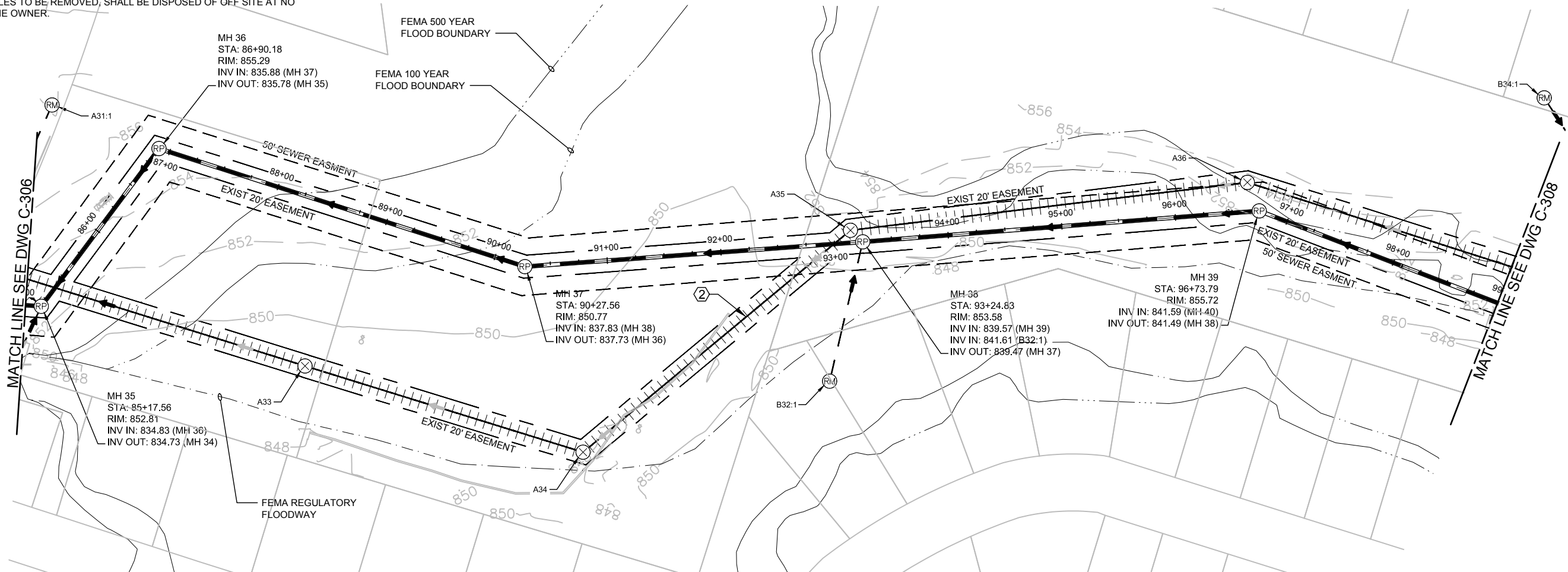
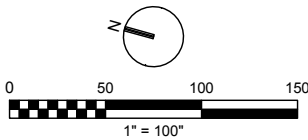
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REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS PLAN AND PROFILE					
				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY
				M HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	BY
				M. GERIK	J. REYNOLDS	A. BYARD		T. KELLEY	
				PROJECT NUMBER: 674854				DATE SEP 2017	
				ENGINEER OF RECORD				SHEET OF 53	

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SHEET NOTES:

1. CONTRACTOR SHALL LOCATE AND VERIFY ALL SERVICE CONNECTIONS AND MAKE A DETERMINATION AS TO WHETHER THEY ARE ACTIVE OR INACTIVE. CONTRACTOR SHALL RECONNECT ALL ACTIVE SERVICE LATERALS AND PROPERLY ABANDON THOSE DEEMED INACTIVE.
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REVISIONS

NO.	DATE	DESCRIPTION

CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT
OFFICE OF ENGINEERING SERVICES

TERRELL CREEK SEWER IMPROVEMENTS
PLAN AND PROFILE

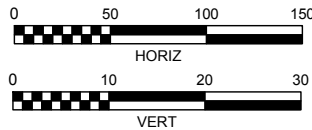
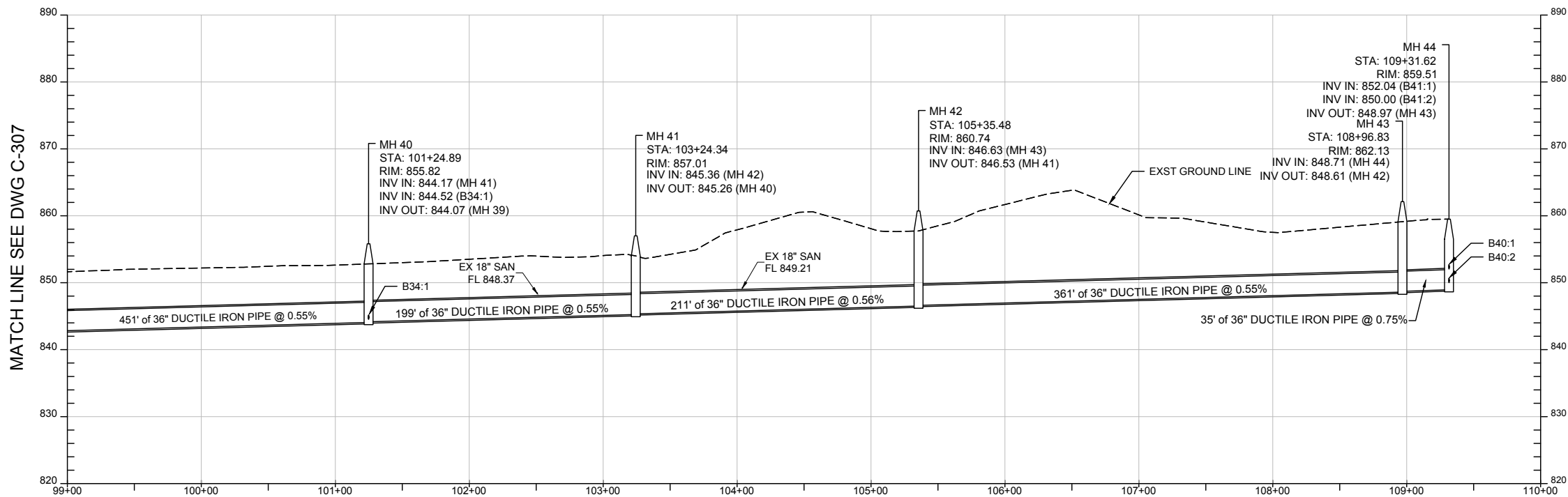
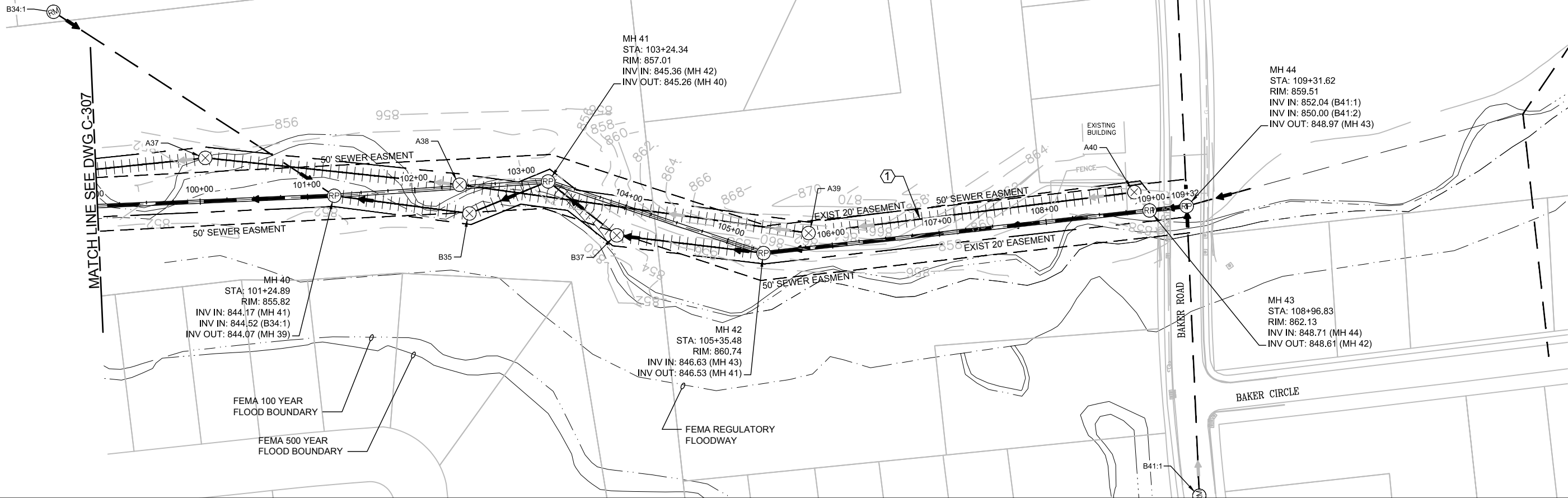
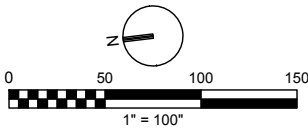
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE
M HARROD		144	14 TH	FULTON	
DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	DATE
M. GERIK	J. REYNOLDS	A. BYARD		T. KELLEY	SEP 2017
PROJECT NUMBER: 674754					SHEET 19 OF 53

ENGINEER OF RECORD

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SHEET NOTES:

1. CONTRACTOR SHALL LOCATE AND VERIFY ALL SERVICE CONNECTIONS AND MAKE A DETERMINATION AS TO WHETHER THEY ARE ACTIVE OR INACTIVE. CONTRACTOR SHALL RECONNECT ALL ACTIVE SERVICE LATERALS AND PROPERLY ABANDON THOSE DEEMED INACTIVE.
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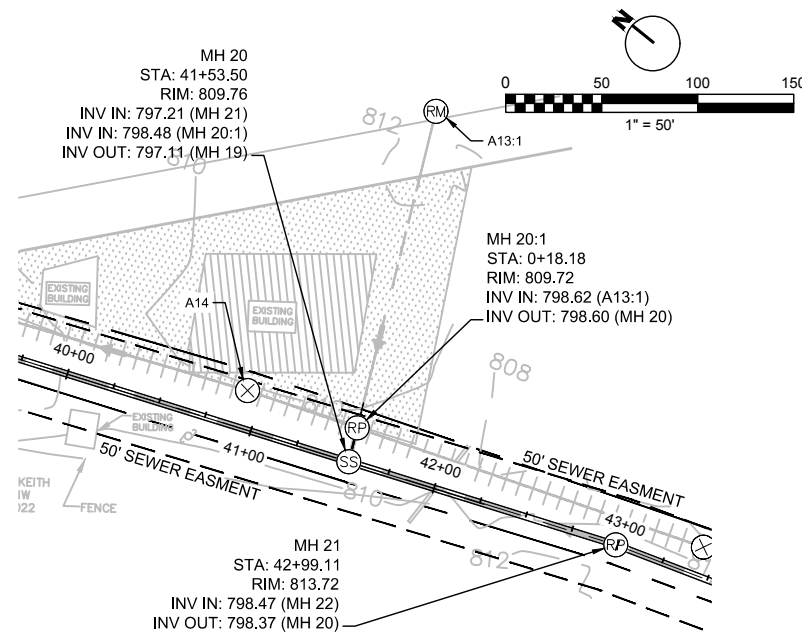
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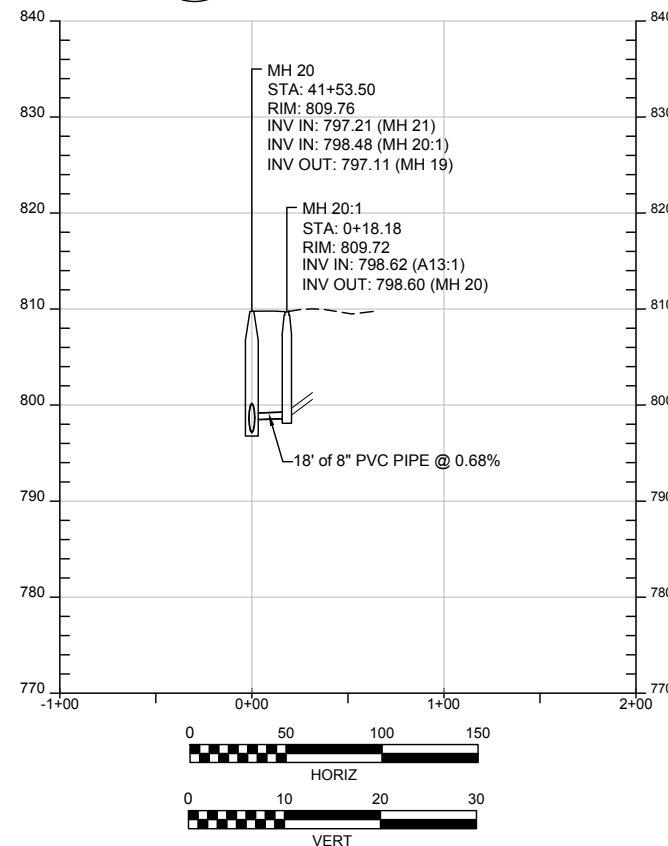
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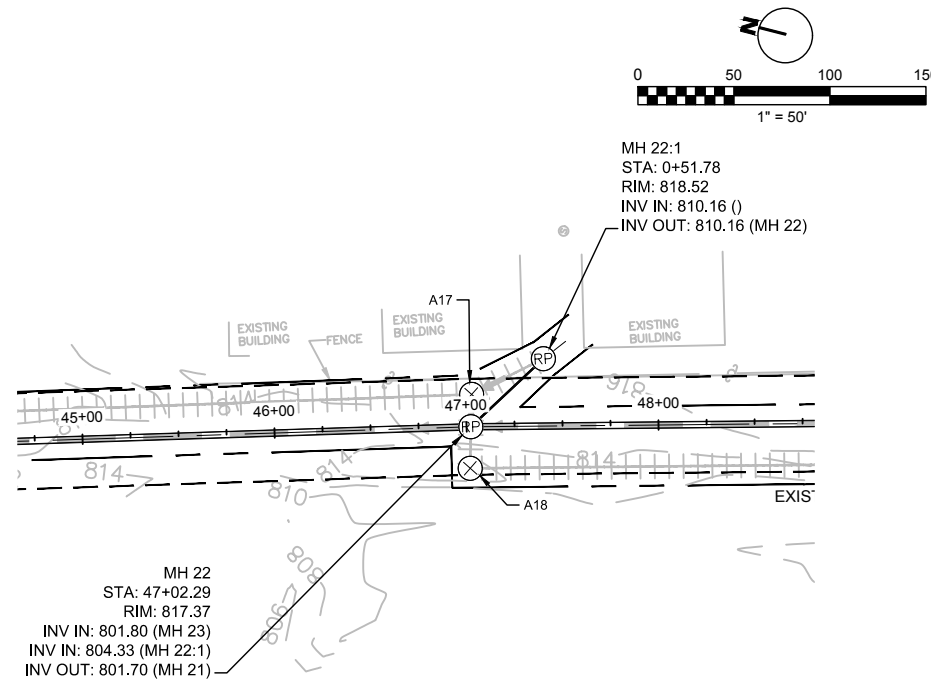
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CITY OF ATLANTA									
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OFFICE OF ENGINEERING SERVICES									
TERRELL CREEK SEWER IMPROVEMENTS									
PLAN AND PROFILE									
SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE			
M HARROD			144	14 TH	FULTON				
DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	BY	DATE			
M. GERIK	J. REYNOLDS	A. BYARD		T. KELLEY		SEP 2017			
PROJECT NUMBER: 674754							SHEET 20 OF 53		



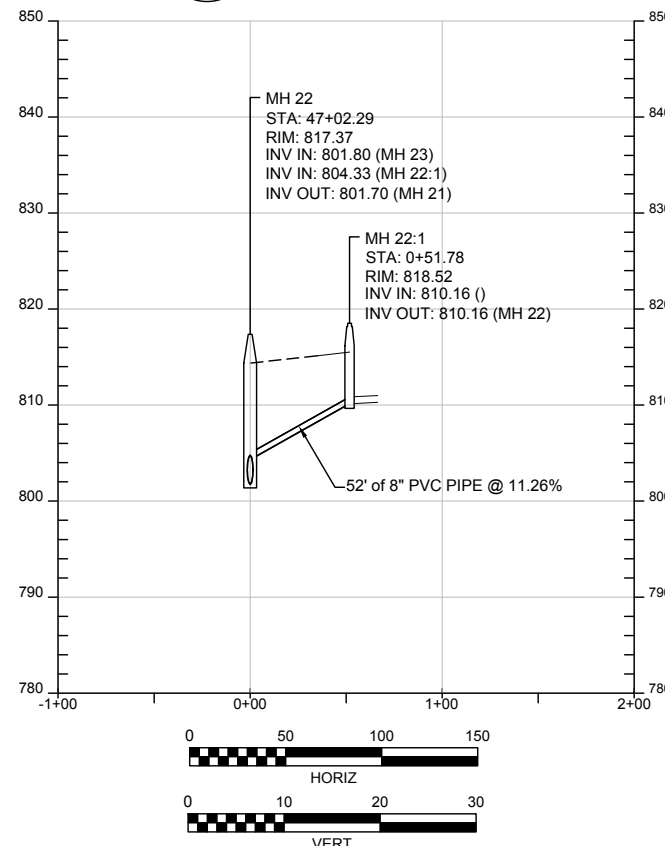
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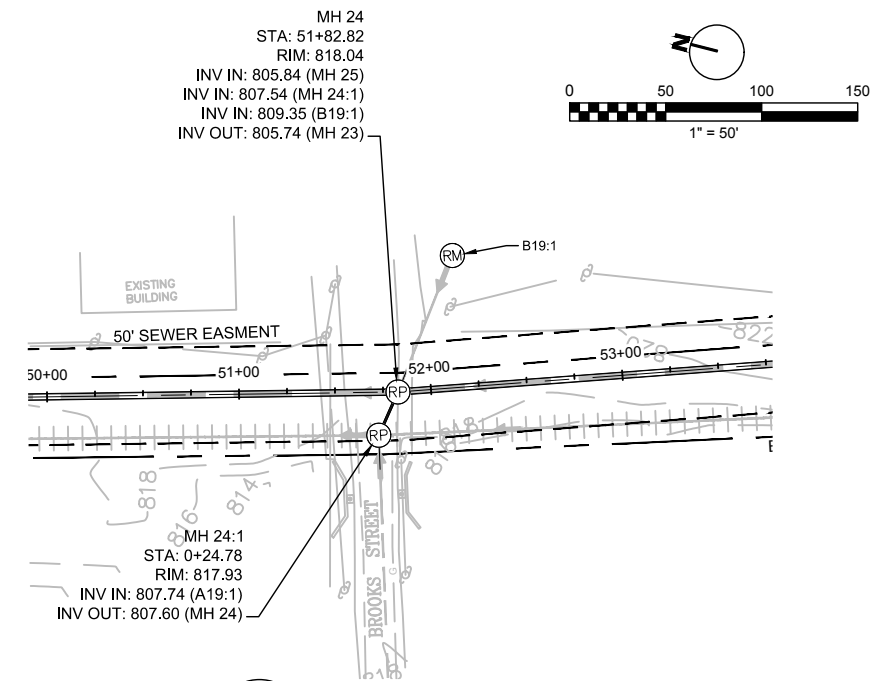
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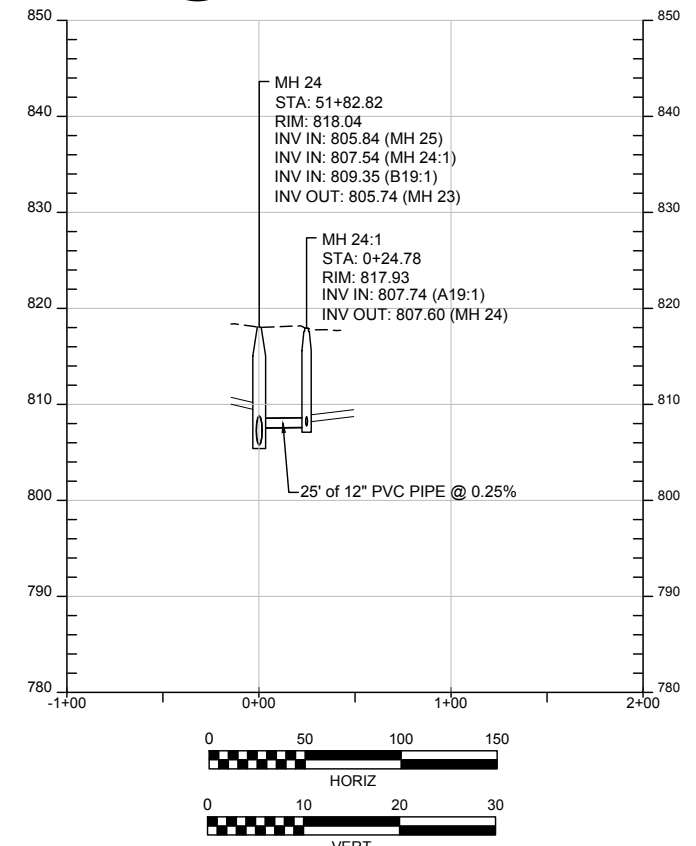
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C-304



B PROFILE MH 22:1 TO MH 22
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C PLAN MH 24:1 TO MH 24
C-304



C PROFILE MH 24:1 TO MH 24
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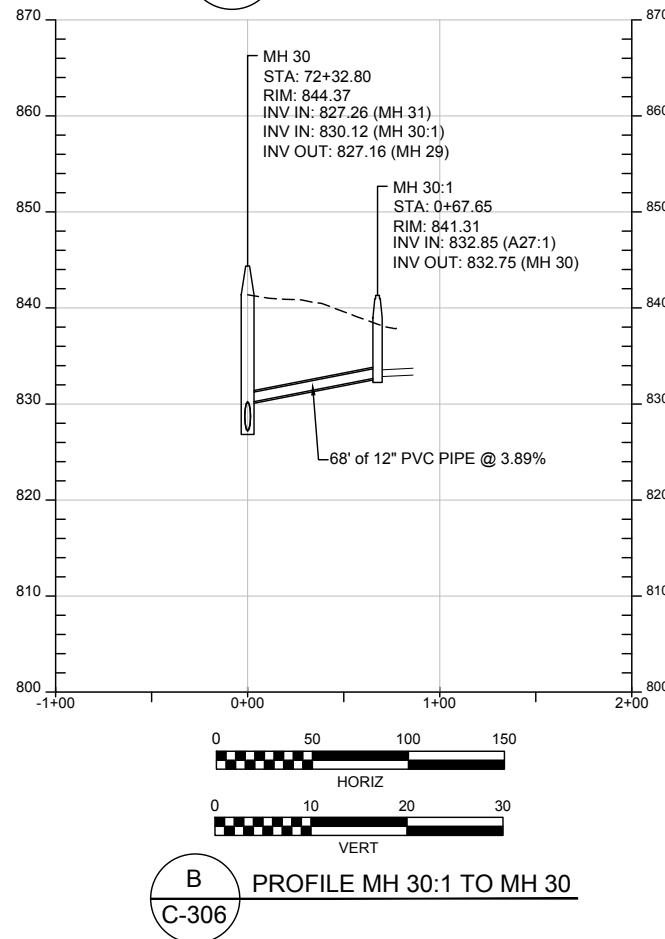
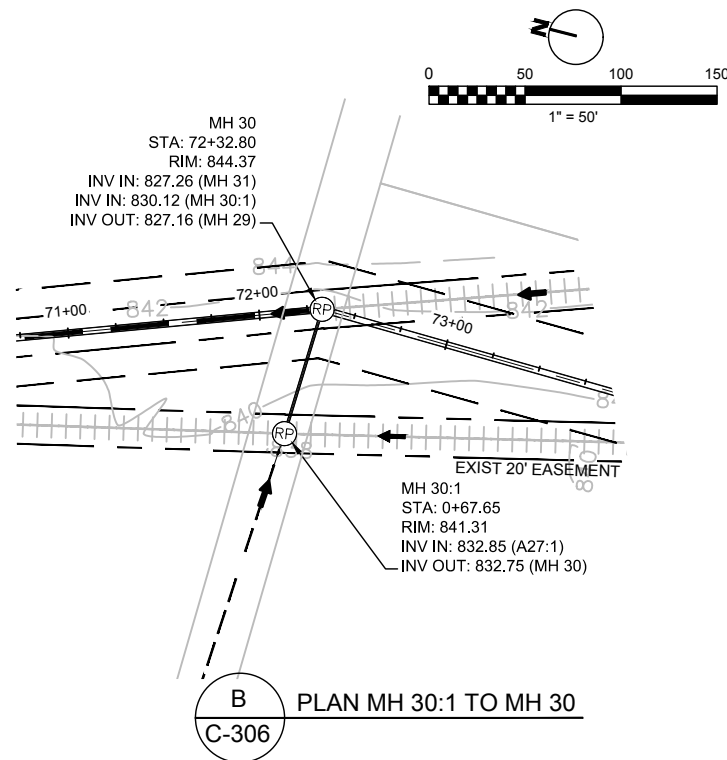
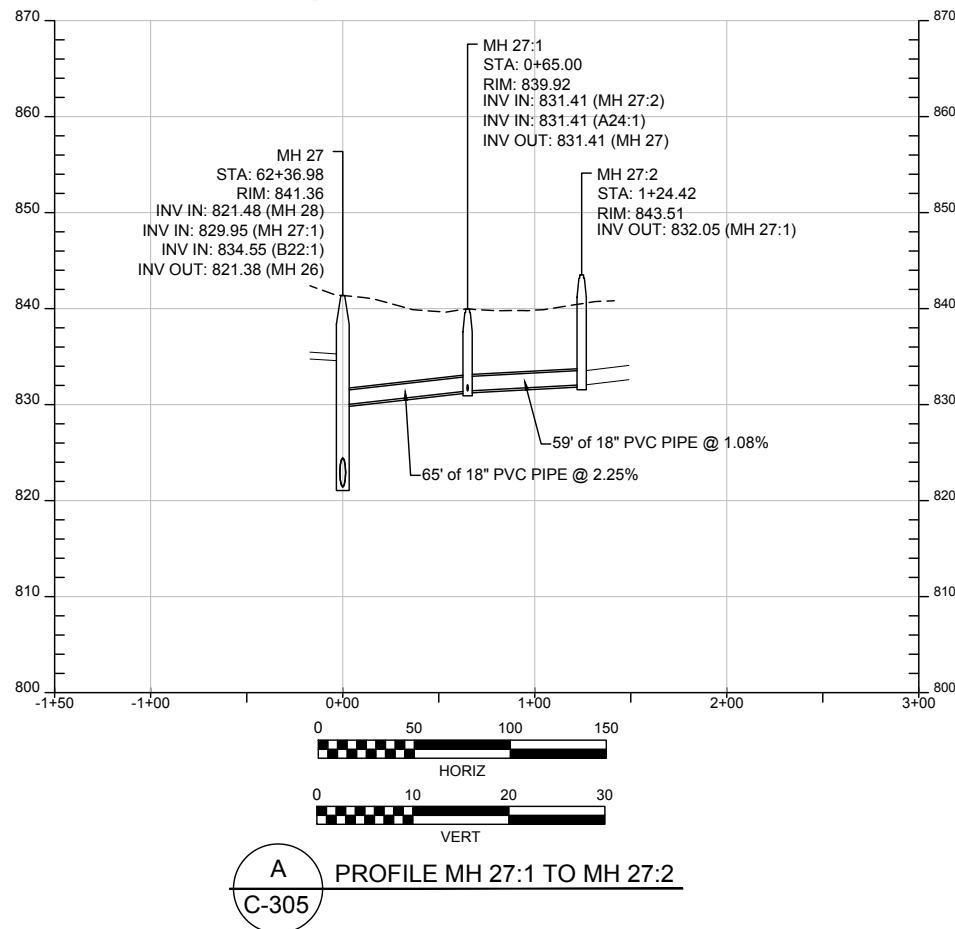
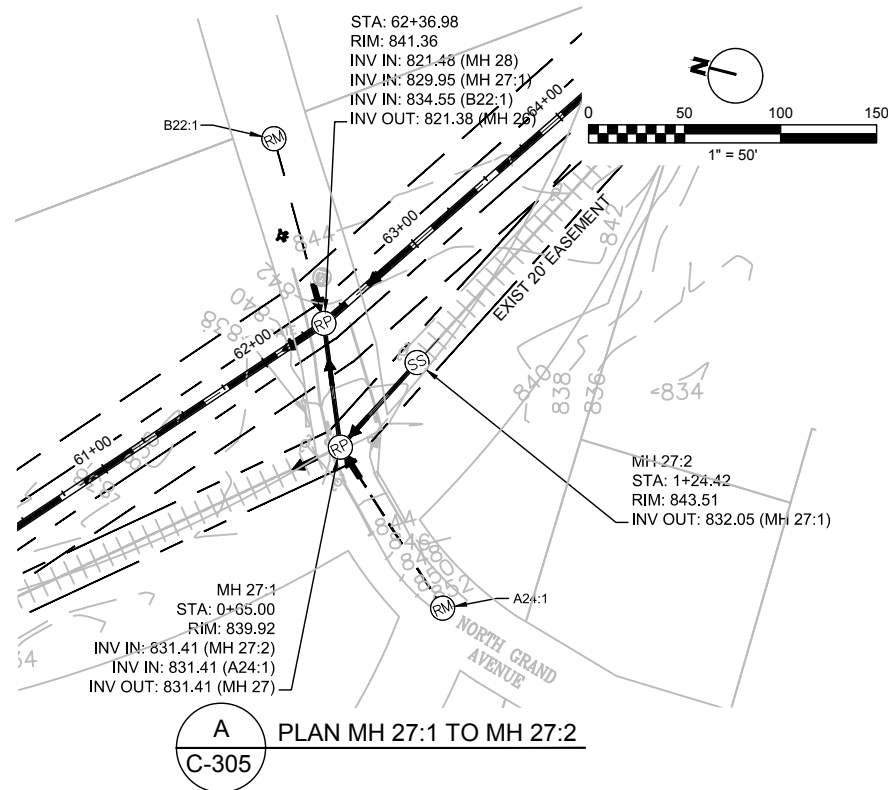
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REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS PLAN AND PROFILE					
				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY
				M. HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	BY
				M. GERIK	J. REYNOLDS	A. BYARD		T. KELLEY	
				PROJECT NUMBER: 674754				DATE	SHEET
								SEP 2017	21 OF 53

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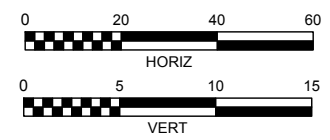
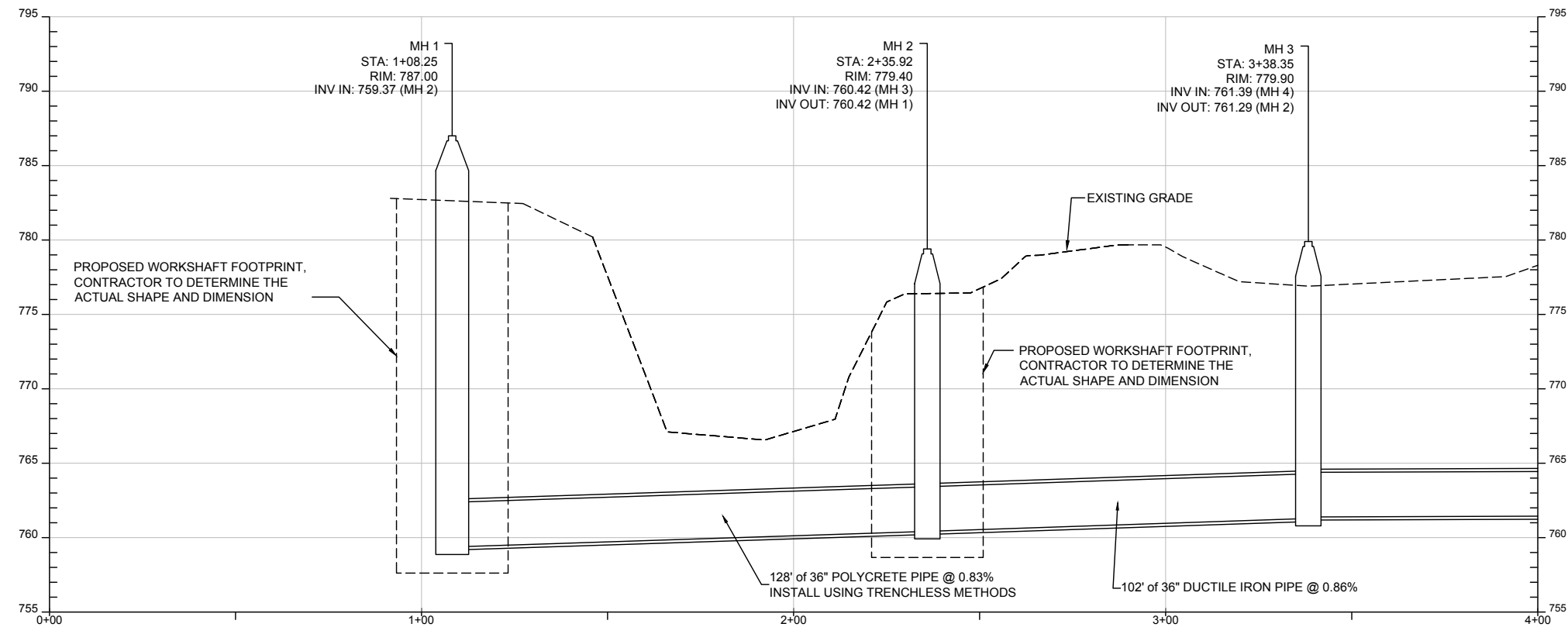
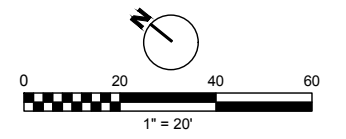
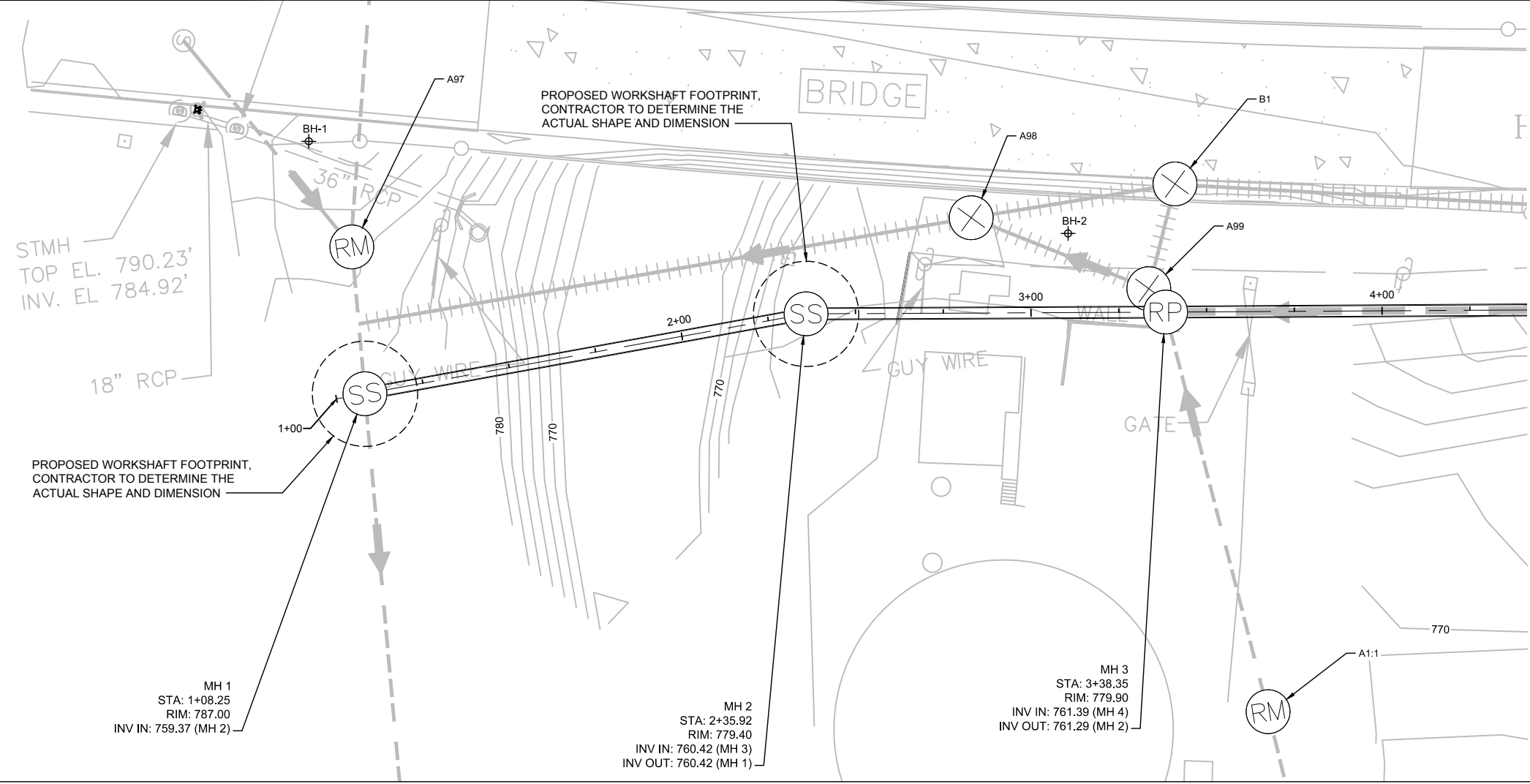
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NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS PLAN AND PROFILE					
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				M. HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	DATE
				M. GERIK	J. REYNOLDS	A. BYARD		T. KELLEY	SEP 2017
ENGINEER OF RECORD				PROJECT NUMBER: 674754				SHEET 22 OF 53	



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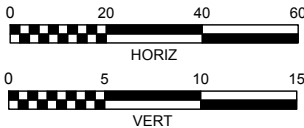
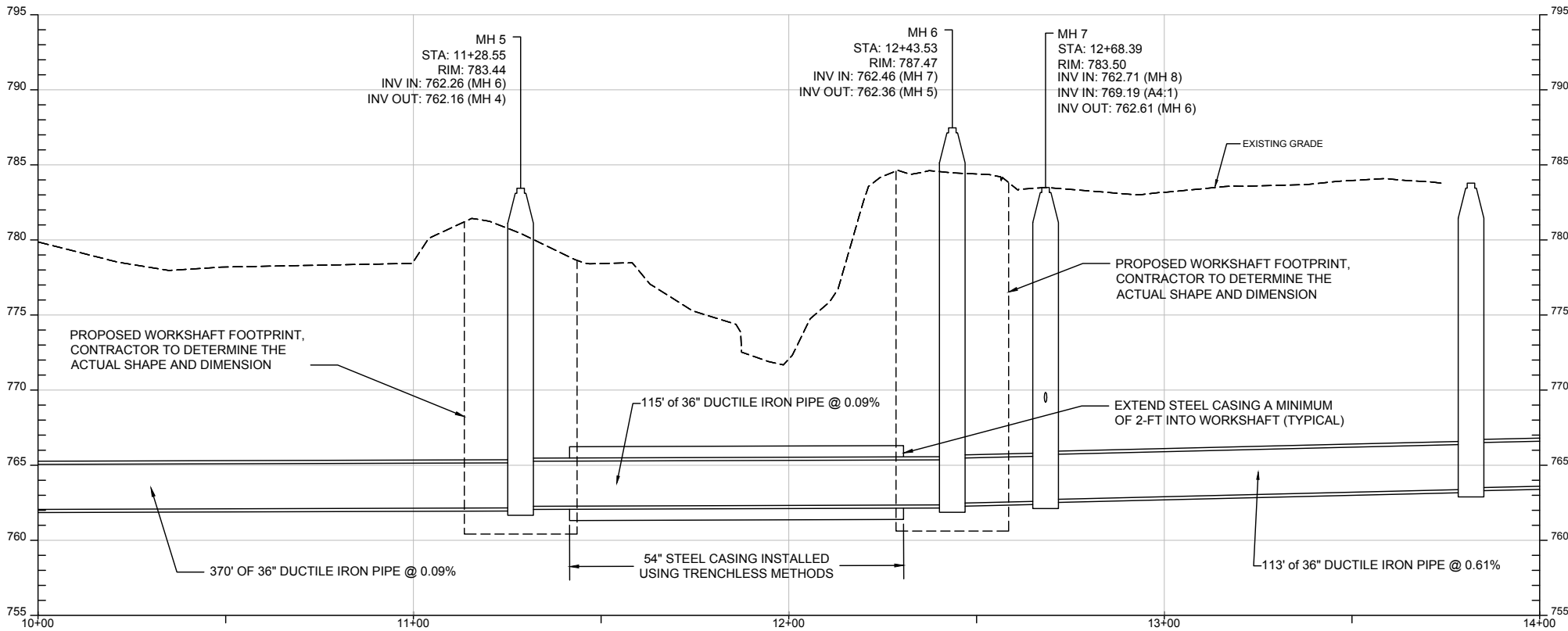
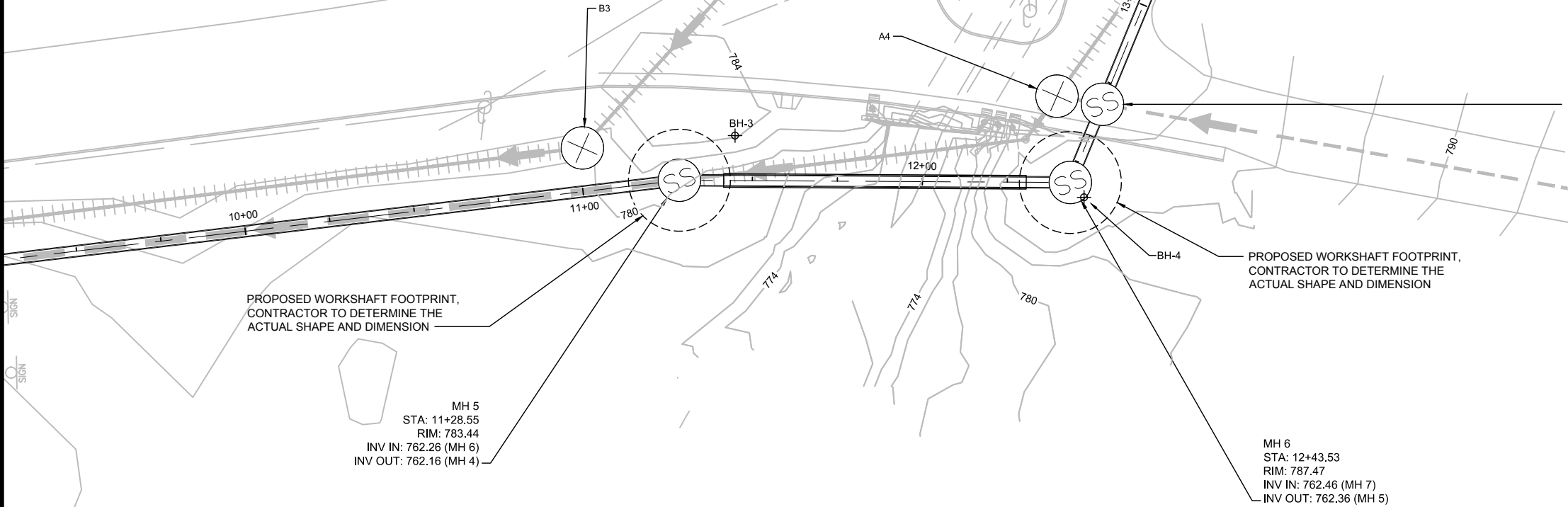
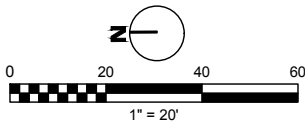
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REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS BORING PROFILE					
				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY
				M HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	DATE
				E. GRIGGS	J. REYNOLDS	A. BYARD		T. KELLEY	SEP 2017
ENGINEER OF RECORD				PROJECT NUMBER: 674754				SHEET 23 OF 53	

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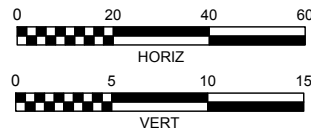
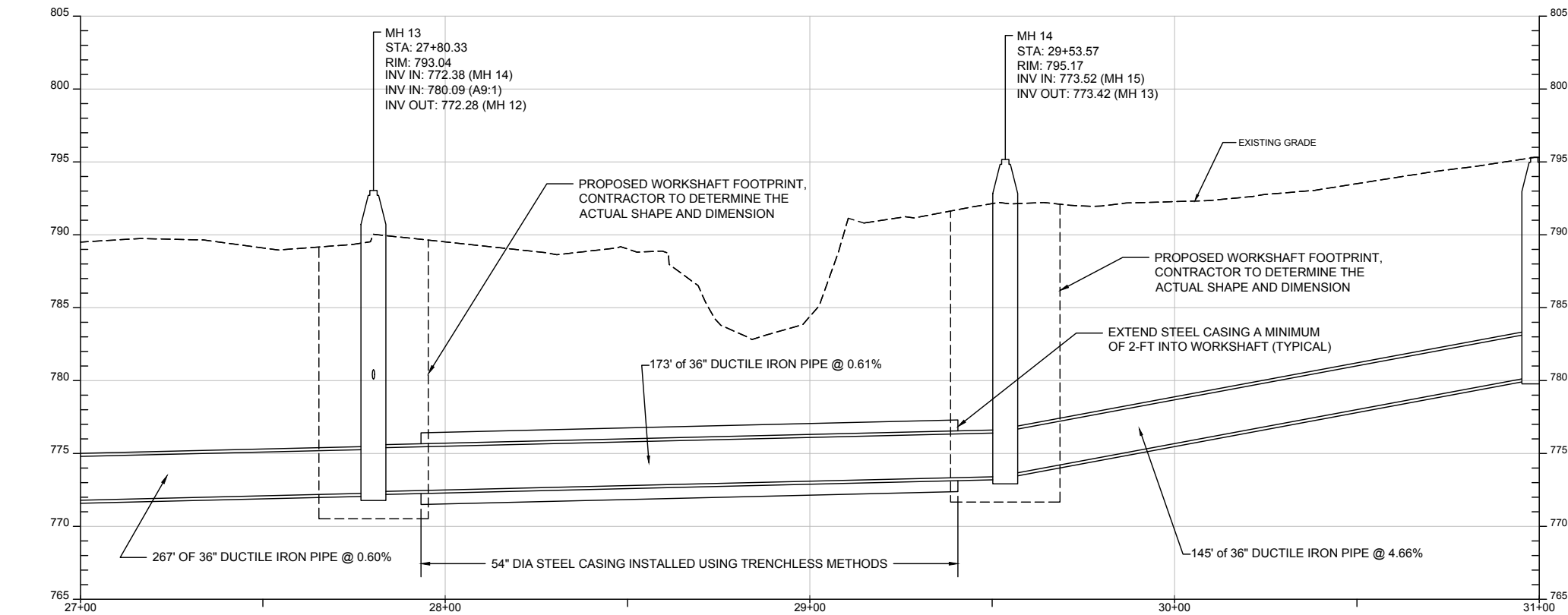
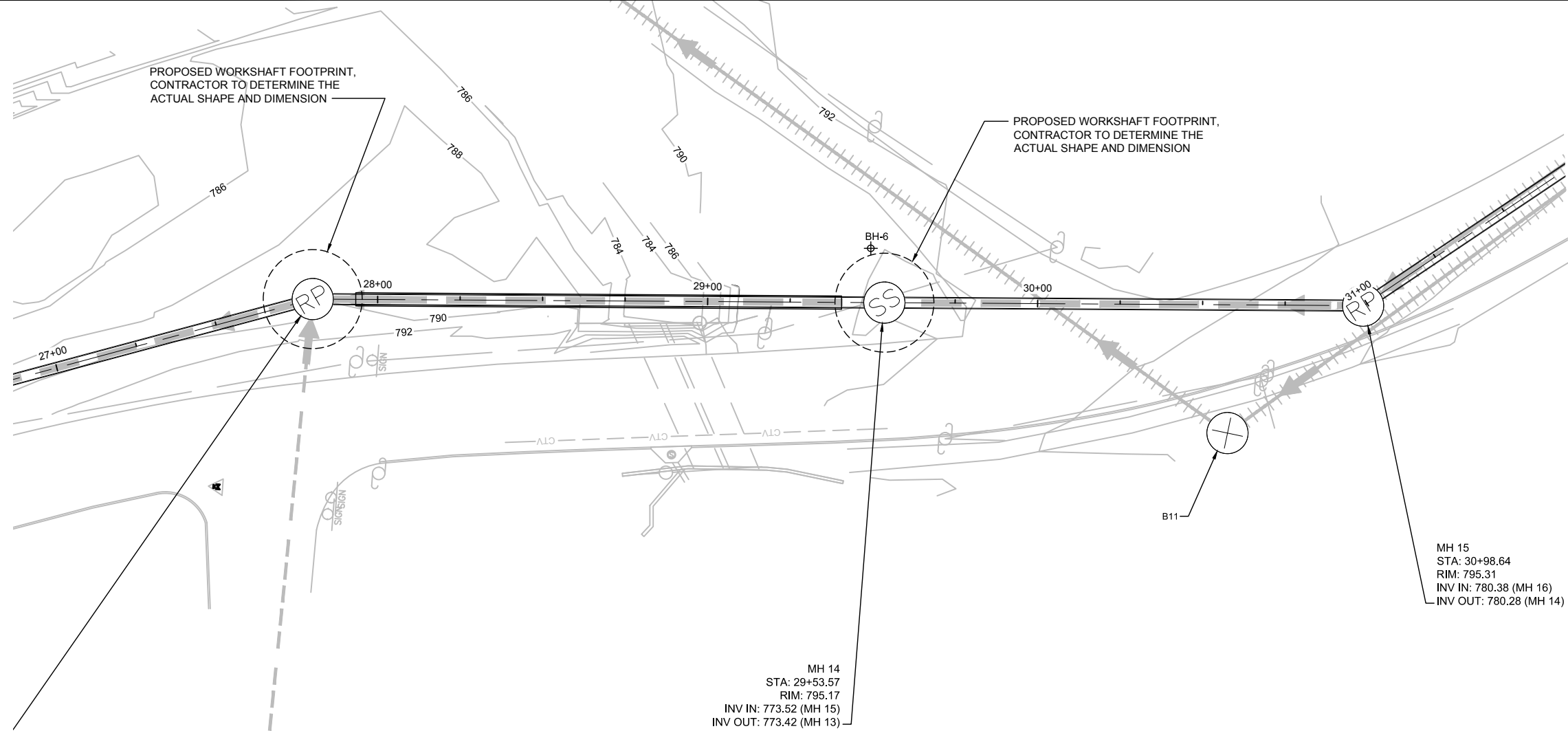
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REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS BORING PROFILE					
				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY
				M HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	BY
				E. GRIGGS	J. REYNOLDS	A. BYARD		T. KELLEY	
				PROJECT NUMBER: 674754				DATE SEP 2017	
ENGINEER OF RECORD				SHEET 24 OF 53					

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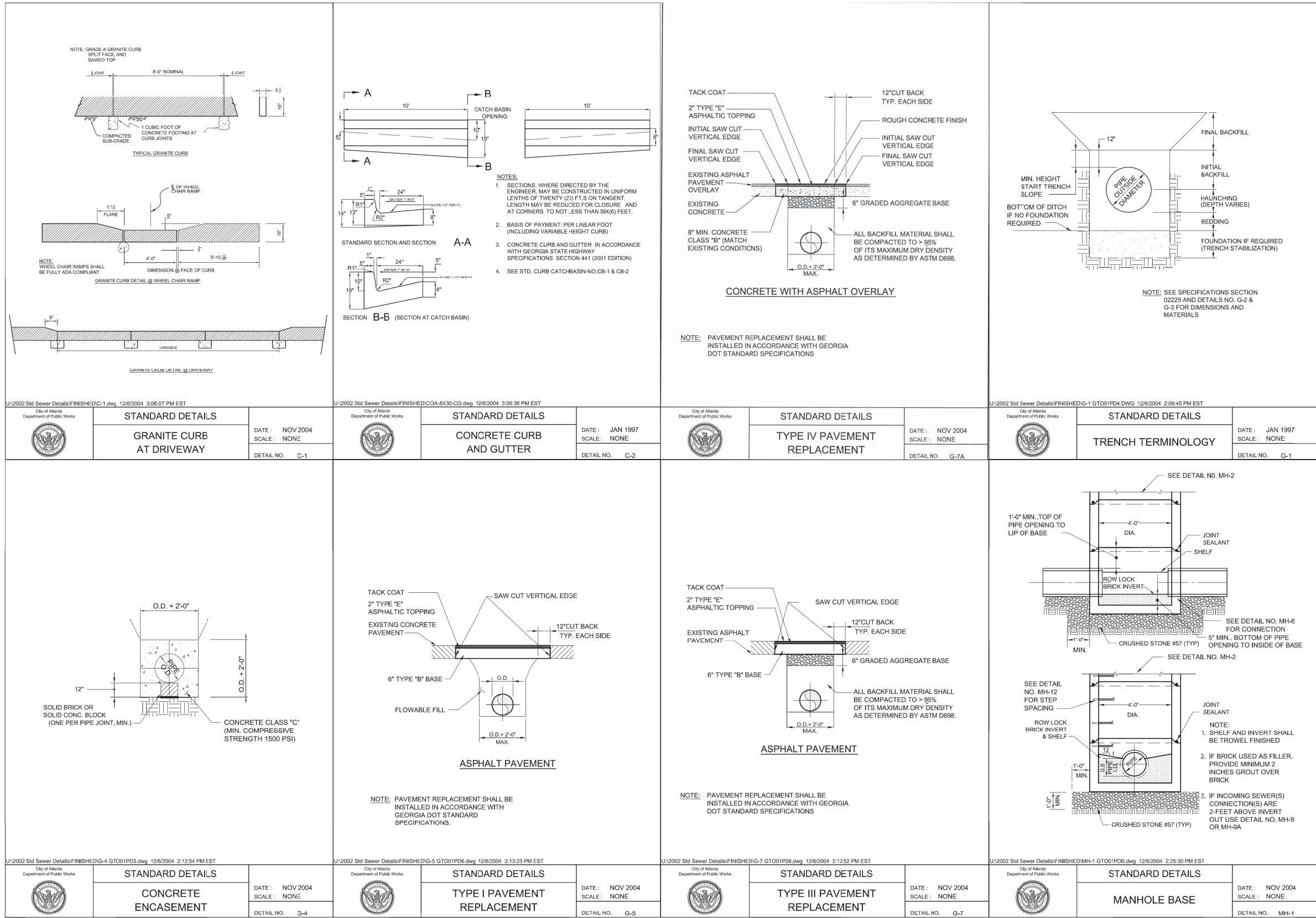
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REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION		TERRELL CREEK SEWER IMPROVEMENTS BORING PROFILE					
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				M HARROD			144	14 TH	FULTON
				DRAWN BY	DESIGNED BY	CHECKED	BY	APPROVED	BY
				E. GRIGGS	J. REYNOLDS	A. BYARD		T. KELLEY	
				PROJECT NUMBER: 674754				SHEET OF	
				ENGINEER OF RECORD				25 53	

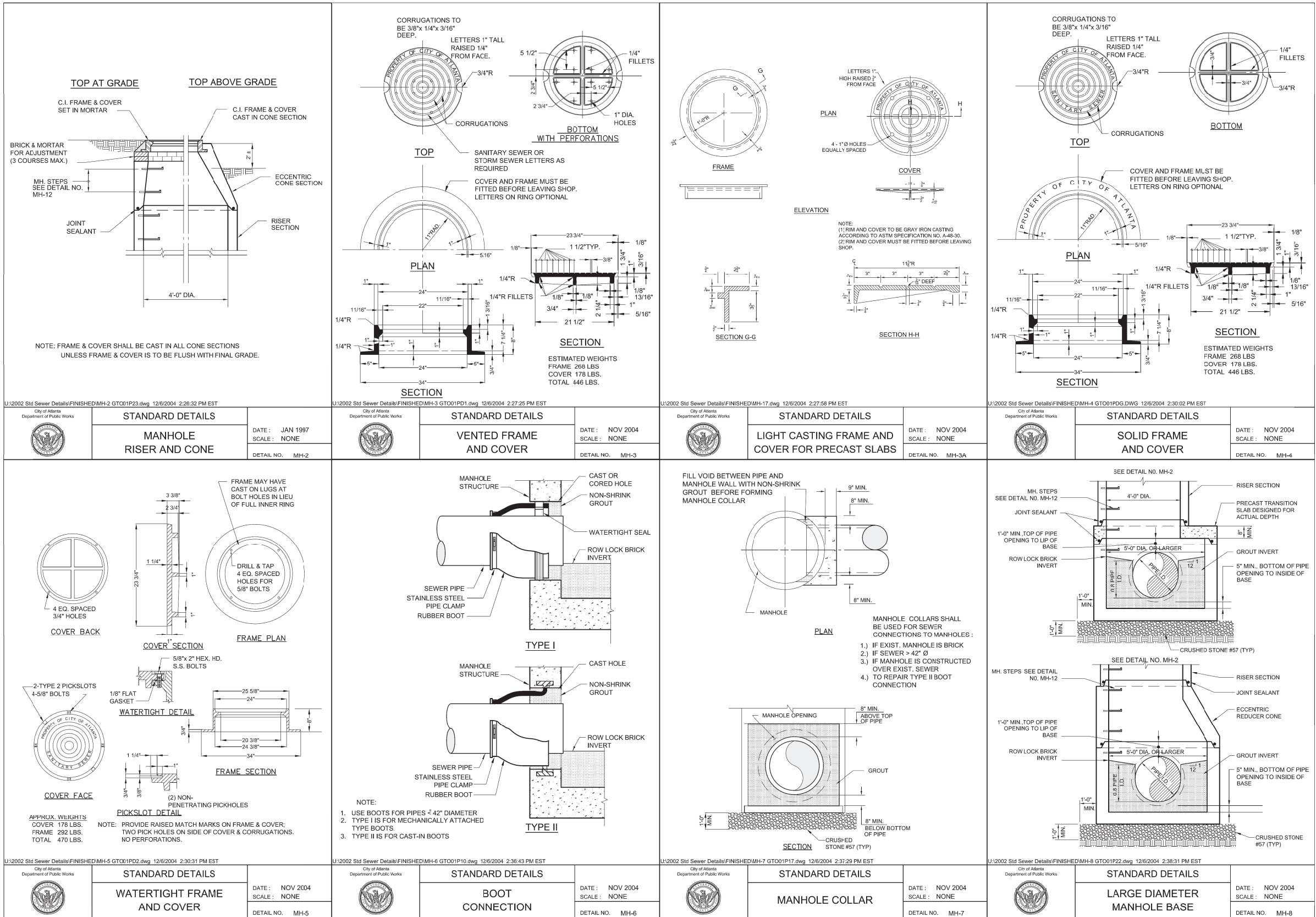


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	REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES							
	NO.	DATE	DESCRIPTION								
				TERRELL CREEK SEWER IMPROVEMENTS STANDARD DETAILS - 1							
				SURVEYOR		FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE
				DRAWN BY E GRIGGS		DESIGNED BY J REYNOLDS		CHECKED BY A BYARD		APPROVED BY T KELLEY	DATE SEP 2017
ENGINEER OF RECORD			PROJECT NUMBER:							SHEET 26 OF 53	

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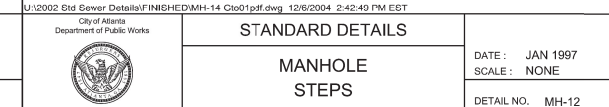
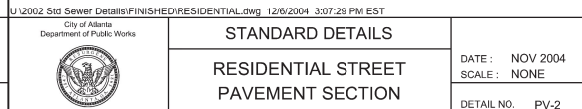
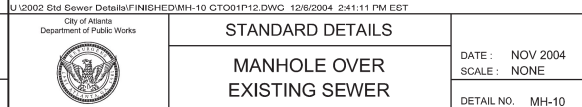
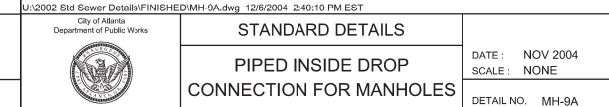
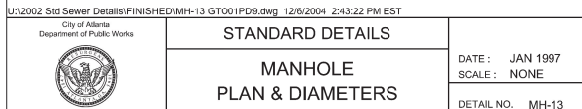
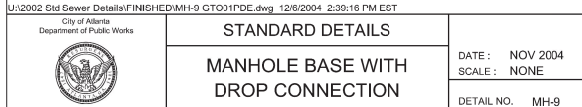


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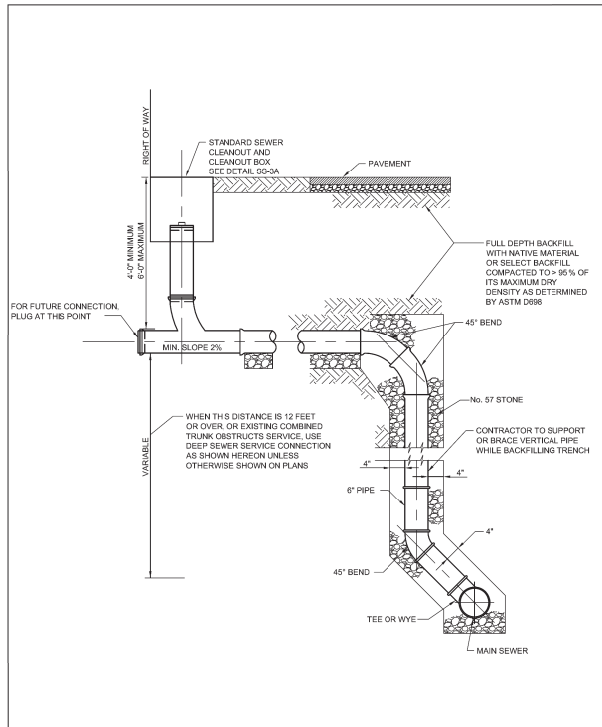
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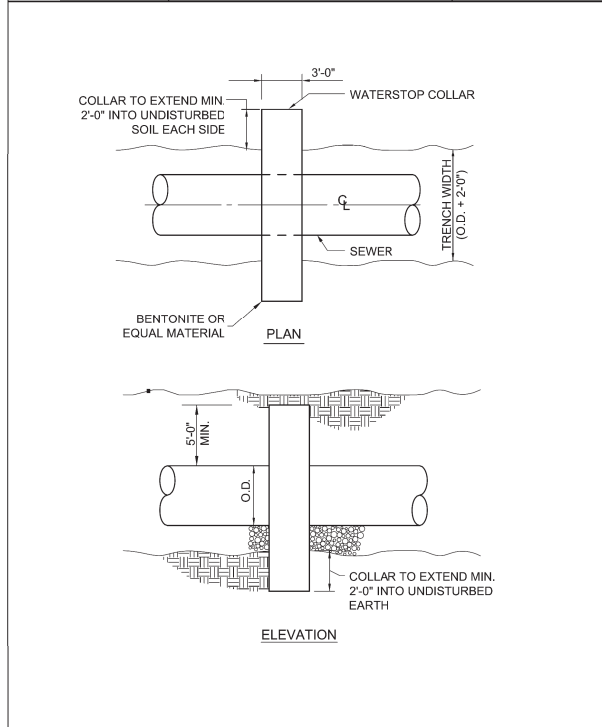
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NO.	DATE	DESCRIPTION	TERRELL CREEK SEWER IMPROVEMENTS STANDARD DETAILS - 2						
			SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE	
			DRAWN BY E GRIGGS	DESIGNED BY J REYNOLDS	CHECKED BY A BYARD	APPROVED BY T KELLEY	DATE SEP 2017		
ENGINEER OF RECORD			PROJECT NUMBER:			SHEET 27 OF 53			



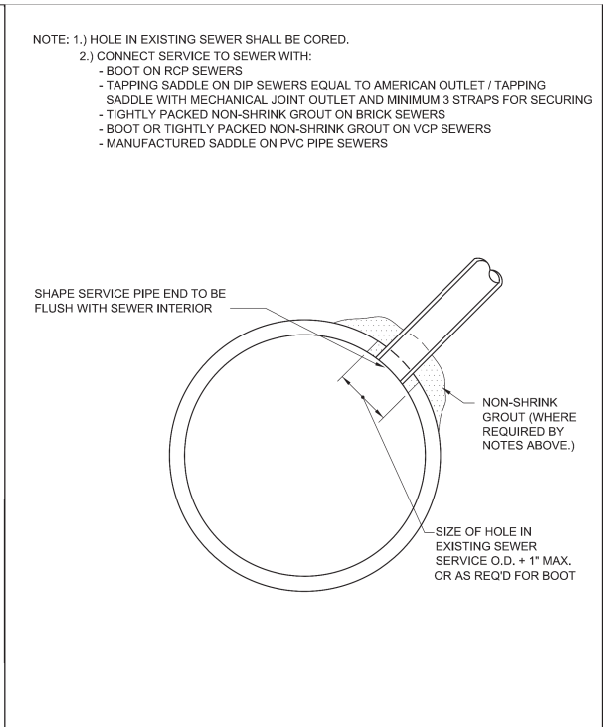
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	NO.	DATE	DESCRIPTION	DEPARTMENT OF WATERSHED MANAGEMENT					
				OFFICE OF ENGINEERING SERVICES					
				TERRELL CREEK SEWER IMPROVEMENTS					
				STANDARD DETAILS - 3					
				SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE
				DRAWN BY E GRIGGS	DESIGNED BY J REYNOLDS	CHECKED BY A BYARD	APPROVED BY T KELLEY	DATE SEP 2017	
	ENGINEER OF RECORD			PROJECT NUMBER:				SHEET OF 53	



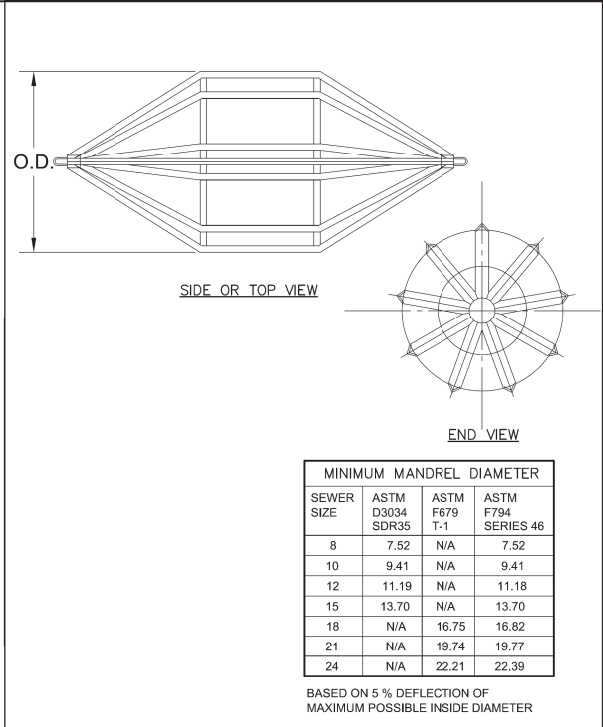
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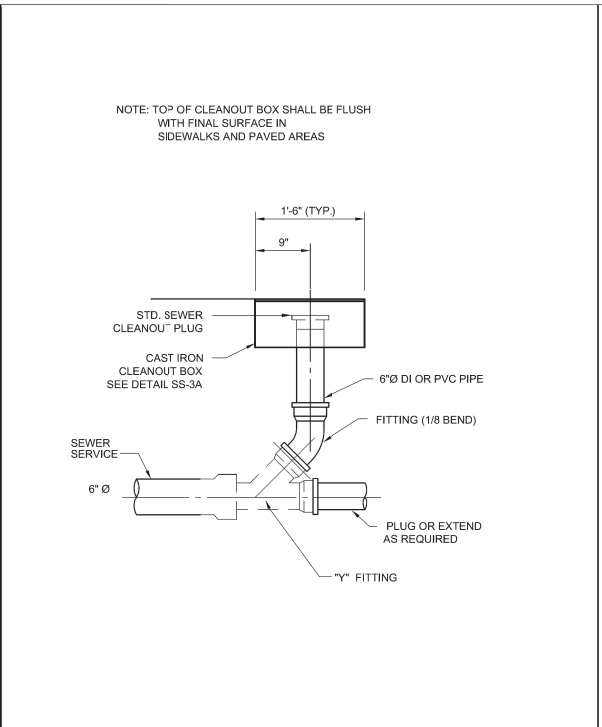
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		WATERSTOP COLLAR	DETAIL NO. SS-4



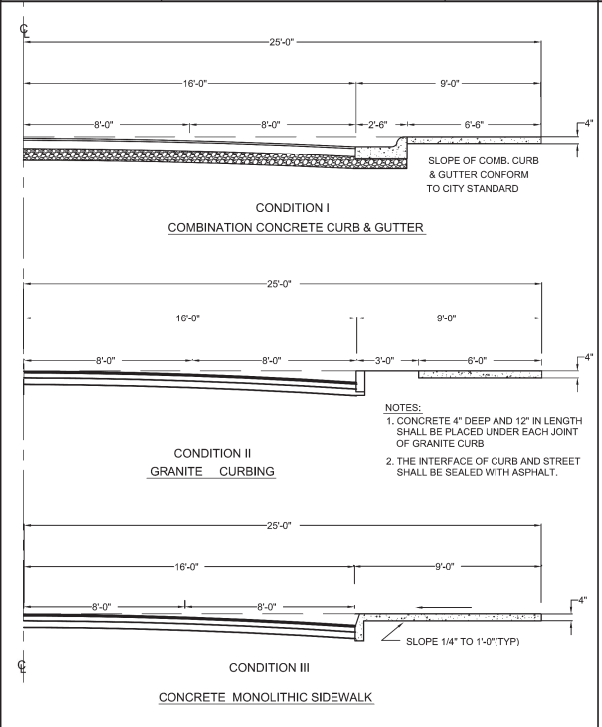
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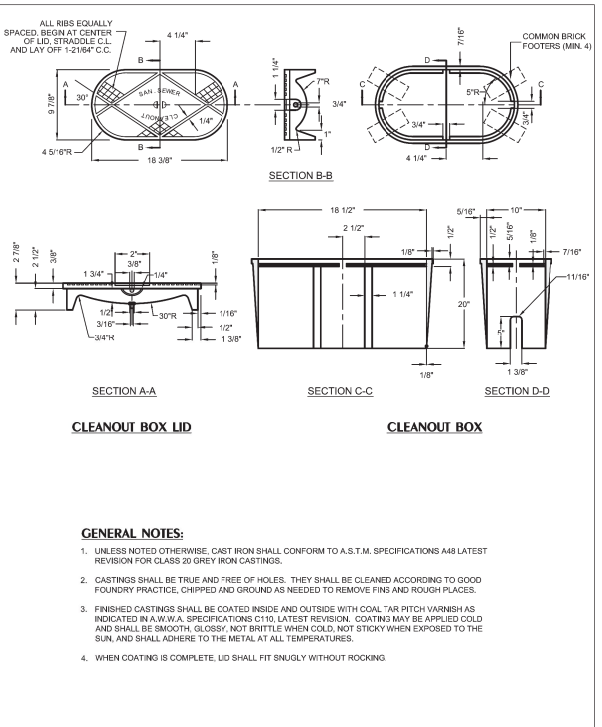
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		DEFLECTION TEST MANDREL	DETAIL NO. SS-5



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		SERVICE CONNECTION CLEANOUT	DETAIL NO. SS-3



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		STANDARD STREETS WITH 50' R/W SIDEWALK	DETAIL NO. STR-1



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		SANITARY CLEANOUT BOX	DETAIL NO. SS-3A

CROWN DATA				
TYPE ROAD	STREET WIDTH	PAVING WIDTH	℄ BELOW CURB	QTR-PT. BELOW CURB
COND.I	36'-0"	32'-0"	1"	2 1/2"
COND.II	32'-0"	32'-0"	2"	3 1/2"
COND.III	32'-0"	32'-0"	2"	3 1/2"

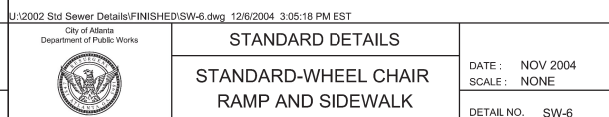
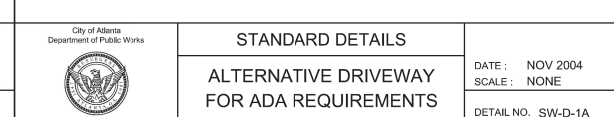
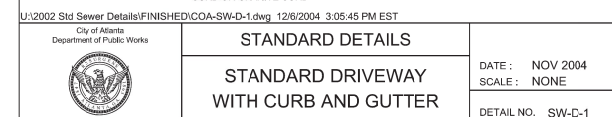
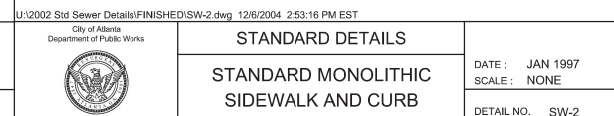
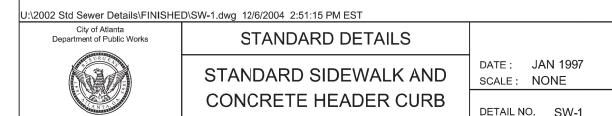
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		STANDARD STREETS CROWN DATA	DETAIL NO. STR-2

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TERRELL CREEK SEWER IMPROVEMENTS STANDARD DETAILS - 4									
SURVEYOR		FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE			
DRAWN BY E GRIGGS		DESIGNED BY J REYNOLDS	CHECKED BY A BYARD	APPROVED BY T KELLEY	DATE SEP 2017				
PROJECT NUMBER:							SHEET 29 OF 53		
ENGINEER OF RECORD									



CERTIFICATION STATEMENTS

DESIGN PROFESSIONAL

- 11

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

12

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.

13

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STEAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."

14

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.

NAME: CHRISTOPHER S. HAMBLÉN, P.E.

GEORGIA REGISTERED ENGINEER NO: 038034

LEVEL II CERTIFIED DESIGN PROFESSIONAL NO: 0000069253

SIGNATURE:

PRIMARY PERMITTEE

4

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

NAME : REGINALD CRAYTON

COMPANY: CITY OF ATLANTA, DEPARTMENT OF WATERSHED MANAGMENT

ADDRESS: 72 MARIETTA STREET NW

CITY/ST/ZIP: ATLANTA, GA 30303

PHONE: (404) 798-5612

PROJECT INFORMATION

3

24-HOUR CONTACT
NAME: REGINALD CRAYTON
PHONE NUMBER: (404) 798-5612

6

GPS LOCATIONS OF PROJECT (WGS84)
BEGINNING: (33.77026556360, -84.45749342030)
END: (33.79610368460, -84.46992767000)

5

AREAS:
PROJECT AREA: 9.5 ACRES
ANTICIPATED AREA TO BE DISTURBED: INITIAL PHASE 9.5 ACRES
CONSTRUCTION (INTERMEDIATE PHASE) 9.5 ACRES

8

PROJECT DESCRIPTION:
TERRELL CREEK IS A SANITARY SEWER REHABILITATION PROJECT IN ATLANTA, GA THAT IS INTENDED TO RELIEF SURCHARGING IN THE EXISTING SEWER LINES, WHICH CONSISTS OF TWO 18-INCH LINES. THIS WILL BE ACCOMPLISHED BY REPLACING AND PARTIALLY REALIGNING THE EXISTING SEWER ALIGNMENT WITH APPROXIMATELY 10,830 LF OF 36-INCH DUCTILE IRON PIPE, 43 MAINLINE MANHOLES, AND SEVERAL CONNECTING SEWER MAIN COMPONENTS. THE PROJECT IS LOCATED IN BOTH PUBLIC RIGHT-OF-WAY AND SEWER EASEMENTS, BEGINNING AT THE MOST UPSTREAM MANHOLE IN BAKER ROAD, AND FOLLOWS TERRELL CREEK TO ITS CONFLUENCE AT PROCTOR CREEK WHERE IT JOINS AN EXISTING 54-INCH CONCRETE TRUNK SEWER LINE. THE 36-INCH SEWER TRUNK LINE WILL BE INSTALLED USING A TRENCH OR OPEN CUT METHOD FOR THE FULL LENGTH, EXCEPT FOR APPROXIMATELY 400 LF, WHICH WILL BE INSTALLED USING A TRENCHLESS METHOD TO CROSS UNDER CREEKS AND DONALD LEE HOWELL PKWY. INCLUDED IN THIS PROJECT IS THE ABANDONMENT OF THE TWO EXISTING SEWER LINES AND ALL THEIR COMPONENTS THAT WILL NO LONGER BE IN USE AFTER THE NEW SEWER IS PUT IN SERVICE. THIS INCLUDES, BUT IS NOT LIMITED TO, APPROXIMATELY 100 MANHOLES, 22,000 LF OF 18-INCH OR 24-INCH SANITARY SEWER TRUNK LINE, AND ANY CONNECTED COMPONENTS.

10

RECEIVING WATERS
• THE RECEIVING WATERS OF THIS PROJECT ARE TERRELL CREEK AND PROCTOR CREEK, WHICH ARE A PART OF THE UPPER CHATTAHOOCHEE WATERSHED (HUC-03130001).
• TERRELL CREEK IS NOT AN IMPAIRED STREAM SEGMENT AS DEFINED IN THE GEORGIA EPD 305(B)/303(D) LIST. STORMWATER DISCHARGES FROM THIS PROJECT DO NOT DISCHARGE INTO AN IMPAIRED STREAM SEGMENT.
• A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS NOT BEEN DEVELOPED FOR TERRELL CREEK.
• PROCTOR CREEK IS AN IMPAIRED STREAM SEGMENT AS DEFINED IN THE GEORGIA EPD 305(B)/303(D) LIST. A TMDL IMPLEMENTATION PLAN FOR FECAL COLIFORM WAS DEVELOPED FOR PROCTOR CREEK IN 2003. REVISED 2008..
• A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS NOT BEEN DEVELOPED FOR PROCTOR CREEK.

22

BASE FLOOD INFORMATION:
100-YEAR FLOOD ELEVATION: PROCTOR CREEK (781') AND TERRELL CREEK (859' TO 781')

23

MAP NUMBER: FM113121C0236F, FM113121C0237F, FM113121C0239F
NUMBER: 13121C
PANEL: 0236F, 0237F, 0239F
SUFFIX: F
REVISED: SEPTEMBER 18, 2013

46

SOILS TYPE:
AS PER NRCS SOIL DATA MART. SOIL TYPES FOR THIS PROJECT ARE DELINEATED ON SHEETS CE-201 THROUGH CE-208. SOIL TYPE LEGEND, WITH DESCRIPTIONS, IS PROVIDED ON SHEET CE-231.

41

WETLANDS
THE PRESENCE OF ON-SITE WETLANDS HAS BEEN INVESTIGATED AND IT WAS DETERMINED THAT THERE ARE WETLANDS PRESENT WITHIN THE PROJECT AREA. CH2M DELINEATED WETLANDS ARE SHOWN ON SHEETS C-206 THROUGH C-208.

40

STATE WATERS
ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN IDENTIFIED AND WILL BE PROTECTED BY ASSOCIATED STATE AND COUNTY PROTECTION REGULATIONS AND BUFFERS. PLEASE REFER TO SHEETS CE-201 THROUGH CE-208 FOR STATE WATERS OVERVIEW.

41

BUFFERING REQUIREMENTS:
AN UNDISTURBED NATURAL VEGETATIVE BUFFER OF 75 FEET MEASURED FROM THE POINT OF WRESTED VEGETATION ALONG STREAM BANKS AND 25 FEET FROM THE POINT OF WRESTED VEGETATION ALONG BODIES OF WATER (PONDS, LAKES).

44

RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOWS OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED SHALL STAY THE SAME. THE PROPOSED WORK DOES NOT ALTER THE HYDROLOGY OF THE SITE.

48

THE TOPOGRAPHY OF THE SITE, AS WELL CONSTRUCTION TECHNIQUES, LIMITS THE LAND DISTURBANCE ACTIVITIES TO A NARROW AND NON-CONTINUOUS LINEAR AREAS. THIS ELIMINATES THE OPPORTUNITY TO USE A CENTRALIZED SEDIMENT STORAGE BMP TO ADEQUATELY TREAT SEDIMENT POLLUTION. TO MEET THE GOALS OF LIMITING SEDIMENT POLLUTION, THE SEDIMENT CONTROL PROGRAM WILL BE EXECUTED BY THE CONTRACTOR IN COORDINATION WITH LIMITING LAND DISTURBANCE.

GENERAL NOTES:

1. ALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES AND ORANGE BARRIER FENCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE WORK AND REMAIN UNTIL COMPLETION OF WORK. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE DAMAGED ITEMS. THE CONTRACTOR SHALL INSPECT FENCE DAILY AND AFTER EVERY RAIN EVENT. ACCUMULATED SILT SHALL BE REMOVED AS SOON AS PRACTICAL, BUT NO LATER THAN WHEN FENCE IS HALF FULL.

2. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

3. SOIL DISTURBING ACTIVITIES WILL INCLUDE: PLACEMENT OF EROSION AND SEDIMENT CONSTRUCTION, TRENCH EXCAVATION AND BACKFILL, AND SURFACE RESTORATION.

4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES INSTALLED IN GOOD WORKING ORDER FOR THE FULL DURATION OF THIS CONTRACT.

5. EROSION, SEDIMENT AND POLLUTION CONTROL MEASURES SHALL BE PROVIDED AS SHOWN AND ARE THE MINIMUM REQUIRED. ADDITIONAL DEVICES MAY BE REQUIRED AS NECESSARY DURING CONSTRUCTION.

6. CONTRACTOR SHALL INSTALL AND ADD TO EROSION CONTROL MEASURES AS DETERMINED BY THE ENGINEER, OWNER OR THE CITY.

7. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION. THIS DESIGN SHALL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THIS PUBLICATION.

8. CONSTRUCTION EXITS (Co) SHALL BE REQUIRED AT ALL LOCATIONS USED FOR INGRESS/EGRESS FROM THE CONSTRUCTION AREA. CONSTRUCTION MATERIAL STORAGE AREAS WILL REQUIRE THE INSTALLATION OF A CONSTRUCTION EXIT TO REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE AREA. SILT FENCE SHALL ALSO BE OR THE SILT FENCE SHALL REMAIN UNTIL THE AREA IS PERMANENTLY STABILIZED. AFTER DEMOBILIZATION, THE MATERIAL STORAGE AREA SHALL BE SEEDED AND MULCHED, AND INSTALLED TO PREVENT SEDIMENT FROM LEAVING THE MATERIAL STORAGE AREA.

9. CONSTRUCTION DEBRIS (INCLUDING CONCRETE WASHOUT) SHALL BE PROPERLY DISPOSED OF OFFSITE IN LICENSED LANDFILLS OR LOCATIONS THAT ARE APPROVED BY FEDERAL, STATE, AND LOCAL AUTHORITIES. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

10. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE SITE WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE SITE OWNER AND/OR THE ENGINEER OF RECORD.

11. A TEMPORARY COVER OF HEAVY MULCH OR MULCH WITH TEMPORARY SEEDING SHALL BE PLACED ON ALL AREAS WHERE PERMANENT COVER CAN NOT BE ESTABLISHED IMMEDIATELY DUE TO SEASONAL LIMITATIONS.

12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT UNDER NO CIRCUMSTANCES ANY SEDIMENT, TRASH, OR DEBRIS BE ALLOWED ONTO ADJACENT PROPERTIES, PUBLIC LANDS, OR OUTSIDE OF THE CONSTRUCTION LIMITS.

13. ALL EROSION CONTROL DEVICES, THAT ARE NOT DIRECTLY SPECIFIED AS TO INSTALLATION AND MATERIALS, SHALL MEET THE REQUIREMENTS OF THE GA. DEPT. OF TRANSPORTATION, SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION, AND LATEST SUPPLEMENT IN EFFECT AT THE TIME OF BID OPENING OR THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION

14. ACCEPTANCE AND/OR SUBSEQUENT ACCEPTANCE OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY COA OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS, JURISDICTIONAL WATERS OF THE STATE, AREAS OF THREATENED/ENDANGERED SPECIES, OR AREAS OF HISTORICAL SIGNIFICANCE. IT IS THE OWNER'S RESPONSIBILITY CONTACT THE APPROPRIATE REGULATORY AGENCY FOR ANY REQUIRED APPROVALS.

15. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

28 ANTICIPATED CONSTRUCTION SCHEDULE

START:	TO BE DETERMINED																		
COMPLETION:	18-24 MONTHS FROM NOTICE TO PROCEED																		
	ACTIVITY*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	CLEARING & GRUBBING																		
	TEMPORARY VEGETATION																		
	INFRASTRUCTURE CONSTRUCTION (INCL. UTILITIES)																		
	FINE GRADING & LANDSCAPING																		
	REMOVAL OR TEMPORARY EROSION CONTROL																		
	MAINTENANCE OF BMPs																		
* CONTRACTOR TO PHASE CONSTRUCTION ACCORDINGLY TO REDUCE BARE SOIL CONDITIONS.																			

NOTIFICATIONS

1. NOTIFY ENGINEER AND OWNER 72 HOURS PRIOR TO THE BEGINNING OF EVERY PHASE OF CONSTRUCTION.

2. PROVIDE BMPs FOR REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.

REQUIRED NOTES

15

1. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

16

2. BUFFER ENCROACHMENTS
2.1. DESCRIPTION OF BUFFER ENCROACHMENT CONSTRUCTION OF THE PROJECT REQUIRES PERFORMING WORK WITHIN THE DELINEATED, 25 FOOT STREAM BUFFER. THE PROJECT INVOLVES DIRECT REPLACEMENT AND REALIGNMENT OF A SANITARY SEWER TRUNK THAT RUNS PARALLEL TO TERRELL CREEK.

2.2. PERMITS FOR ENCROACHMENT THE FOLLOWING PERMITS ARE REQUIRED FOR CONSTRUCTION OF THIS PROJECT: GEORGIA EPD STREAM BUFFER VARIANCE (PERMIT APPLICATION IN DEVLEOPMENT) USACE NATIONWIDE PERMIT (PERMIT APPLICATION IN DEVLEOPMENT)

17

3. AMMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
3.1. THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, SHALL AMEND THEIR PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT.

3.2. ALL REVISIONS OR AMENDMENTS SHALL BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY FOR REVIEW.

18

4. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
4.1. INCLUDING BUT NOT LIMITED TO WASTE BUILDING MATERIALS, CONSTRUCTION AND DEMOLITION DEBRIS, CONCRETE WASHOUT OR EXCAVATED SEDIMENT.

19

5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

20

6. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

21

7. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

9 VICINITY MAP

GSWCC

Georgia Soil and Water Conservation Commission

Christopher Hamblen
Level II Certified Design Professional

Certification Number: 0000069253 Expires: 08/21/2019
Issued: 08/21/2015

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			TERRELL CREEK SEWER IMPROVEMENTS ES&PC NOTES						
ENGINEER OF RECORD			SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE
			DRAWN BY E GRIGGS	DESIGNED BY T SMITH	CHECKED BY K. HAMBLÉN	APPROVED BY T KELLEY	DATE SEP 2017		
			PROJECT NUMBER:						SHEET 31 OF 53

100% REVIEW DOCUMENTS

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES CONTINUED

CITY OF ATLANTA REQUIRED NOTES

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND TEMPORARY SEEDING.
4. ANY DISTURBED AREAS REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.
5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN, AND REPAIRED AS NECESSARY.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.
7. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 TYPE C TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION, AND BE WIRE REINFORCED.
8. THE PROPERTY OWNER AND CONTRACTOR ARE EQUALLY RESPONSIBLE FOR ALL EROSION CONTROL ACTIVITIES.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES, NOT THE CITY OF ATLANTA.
10. ALL TEMPORARY AND PERMANENT SEEDING MUST BE PERFORMED AT THE APPROPRIATE SEASON. IN SUCH INSTANCES WHERE THE ESTABLISHMENT OF VEGETATION IS INOPPORTUNE DUE TO SEASON OR DROUGHT, DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED USING 2"-4" OF MULCH (DS1). ADDITIONAL PLANTINGS WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW.
11. THE CITY'S DESIGNEE WILL VERIFY ADEQUATE COVER (100% COVER, 70% DENSITY) OF PERMANENT STABILIZATION (DS3, DS4).
12. SILT FENCES SHALL NOT BE PLACED IN STREAM BUFFER OR FLOODPLAINS, UNLESS UTILIZED FOR THE CONSTRUCTION OF AN EXEMPT ACTIVITY (I.E. ROADWAY DRAINAGE STRUCTURES, SEWER/WATER CROSSINGS, OR DRAINAGE STRUCTURES) PER THE APPROVED PLANS. FOR SUCH DISTURBANCES WITHIN THE BUFFER, THE AREA SHALL BE IMMEDIATELY STABILIZED USING EROSION CONTROL MATTING AND/OR BLANKETS ONCE THE ACTIVITY IS COMPLETE.
13. SUBCONTRACTORS INVOLVED WITH LAND DISTURBANCE ACTIVITIES SHALL MEET THE EDUCATION REQUIREMENTS (LEVEL 1) DESCRIBED IN O.C.G.A 12-7-19.

PHASE I – INITIAL PHASE: SITE PREPARATION AND PRE-CONSTRUCTION OPERATIONS

Install / Construct all BMPs as provided on Sheet CE-03.

1. PRIOR TO LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
2. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
3. THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
4. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURNING AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.
5. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
6. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, LIMITS OF LAND DISTURBANCE SHALL CLEARLY AND ACCURATELY BE DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS, AND SHALL BE DEMACATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE APPROVED PLANS.
7. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
8. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:
- 8.1. THE CONSTRUCTION EXIT SHALL BE PLACED AS SHOWN ON THE PLANS.
- 8.2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXIT, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
- 8.3. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.
9. WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORSEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.
10. AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES, AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT SEDIMENT PONDS AS SHOWN ON PLANS.
11. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.
12. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.
13. ALL SILT FENCES MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1993 EDITION.
14. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
15. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
16. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
17. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTIONING.
18. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

PHASE II - INTERMEDIATE PHASE: CONSTRUCTION ACTIVITIES

Install / Construct all BMPs as provided on Sheet CE-04.

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
3. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
4. THE CONTRACTOR SHALL ESTABLISH BARRIERS AT THE TOP OF ALL SLOPES UNDER CONSTRUCTION, CUT AND FILL SLOPES SHALL NOT EXCEED 2:1.
5. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.
6. ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
7. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUNDCOVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES ONE THIRD OF THE DEPT OF THE BASIN.
8. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
9. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
10. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
11. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
12. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

PHASE III - FINAL PHASE: CONSTRUCTION COMPLETION AND FINAL STABILIZATION

Install / Construct all BMPs as provided on Sheets CE-05.
Submit Notice of Termination.

1. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUNDCOVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES ONE THIRD OF THE DEPT OF THE BASIN.
2. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED.
3. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
4. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
5. UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED OTHERWISE ON PLANS.

POLLUTION CONTROL

1. THE MOST EFFICIENT METHOD OF DUST CONTROL FOR THE SITE SHALL BE DETERMINED EXPERIMENTALLY AND MAY CONSIST OF TEMPORARY MEASURES SUCH AS MULCHES, VEGETATIVE COVER, SPRAY-ON ADHESIVES, TILLAGE, IRRIGATION, BARRIERS AND/OR THE APPLICATION OF CALCIUM CHLORIDE.
2. LIKEWISE, IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT PAD DOES NOT SUFFICIENTLY REMOVE THE MUD FROM VEHICLE TIRES, THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
- 2.A. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND PROVISIONS THAT INTERCEPT THE SEDIMENT-LADEN RUNOFF AND DIRECT IT INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
3. WASHOUT AREAS SHALL BE OPERATED BY THE CONTRACTOR. CONCRETE TRUCKS SHALL BE PROHIBITED FROM THE WASHOUT AREA.
- 3.A. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN A DESIGNATED AREA PROVIDED FOR THIS PURPOSE, AS SHOWN ON THE DRAWINGS.
- 4.A. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE FOLLOWED:
- 4.A.1. CONTAIN ALL WASH WATER ON SOIL, IN A BOWL SHAPED AREA CREATED IN THE DESIGNATED WASH AREA TO PREVENT THE WASH WATER FROM FLOWING FROM THE WASHOUT AREA.
- 4.A.2. USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES.
- 4.A.3. REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS; AND
- 4.A.4. REMOVE ALL CONCRETE RESIDUE FROM THE DESIGNATED AREA ONCE IT HAS HARDENED.

STORMWATER DISCHARGE POLLUTANT REDUCTION

1. ALL POLLUTANTS FROM WASTE DISPOSAL PRACTICES, SOIL ADDITIVES, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK WASHOUT, ETC., SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BEST MANAGEMENT PRACTICES.
2. THE SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
3. PRODUCT SPECIFIC PRACTICES:
- 3.A. PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- 3.B. PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 3.C. CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.
- 3.D. FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
- 3.E. BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

STORMWATER MANAGEMENT

THE FOLLOWING IS A DESCRIPTION OF MEASURES THAT MAY BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.

1. STORMWATER RETENTION / DETENTION STRUCTURES
2. FLOW ATTENUATION BY USE OF OPEN VEGETATED SWALES AND NATURAL DEPRESSIONS
3. INFILTRATION OF RUNOFF ON-SITE
4. VELOCITY DISCHARGE SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL FOR THE PURPOSE PROVIDING A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED [E.G. NO SIGNIFICANT CHANGES IN THE HYDROLOGICAL REGIME OF THE RECEIVING WATER(S)]
5. SEQUENTIAL SYSTEMS (WHICH COMBINE SEVERAL PRACTICES)
- STRUCTURES SHOULD BE PLACED ON UPLAND SOILS TO THE DEGREE ATTAINABLE
- THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA
- THE ESPCC ONLY ADDRESSES THE INSTALLATION OF STORMWATER MANAGEMENT MEASURES, AND NOT THE ULTIMATE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.
- OPERATORS ARE ONLY RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORMWATER MANAGEMENT MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE, AND ARE NOT RESPONSIBLE FOR MAINTENANCE AFTER STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAVE BEEN ELIMINATED FROM THE SITE.

SPILL CLEANUP AND CONTROL PRACTICES

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE TO SITE PERSONNEL.
2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
4. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- 4.A. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- 4.B. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- 4.C. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
5. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANYONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.
6. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
7. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
8. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. ANY DISTURBED AREAS REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.

9. PERIMETER EROSION AND SEDIMENT CONTROL DEVICES AND ORANGE BARRIER FENCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE WORK AND REMAIN UNTIL COMPLETION OF WORK. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE DAMAGED ITEMS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN, AND REPAIRED AS NECESSARY ACCUMULATED SILT SHALL BE REMOVED AS SOON AS PRACTICAL, BUT NO LATER THAN WHEN FENCE IS HALF FULL.

HAZARDOUS WASTES

1. ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS.
2. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES.
3. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AND MSDS WILL BE MAINTAINED IN THE ESPCC FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE.
4. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION
- IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.
6. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCC AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS.
7. NO SPILLED HAZARDOUS MATERIAL OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER. STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND DISCHARGES, IF SUCH CONTRACT OCCURS. THE FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

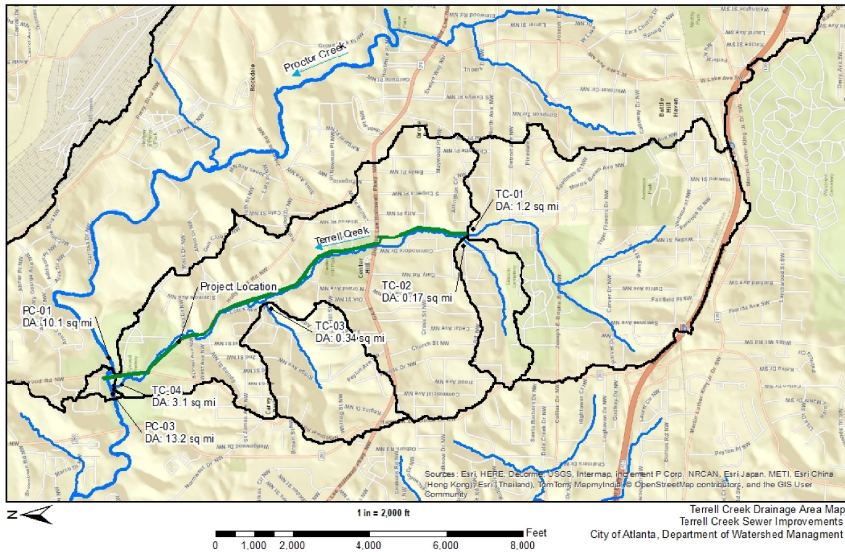
1. A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED TO EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.
2. ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES

FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

3. SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY AT THE COMPLETION OF THE PROJECT.

SAFETY PROTECTION

1. CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES, AND REGULATIONS GOVERNING HEALTH AND SAFETY OF HUMAN BEINGS AND THE ENVIRONMENT.



42 43 DRAINAGE AREA MAP
NOT TO SCALE

BMP's FOR PETROLEUM CHEMICAL SPILLS AND LEAKS:
PAINT AND/OR OTHER CHEMICALS SHALL BE STORED IN SECURED FACILITIES WITH RESTRICTED ACCESS TO EMPLOYEES ONLY. CLEANUP AND DISPOSAL OF THIS MATERIAL SHALL BE IN ACCORDANCE WITH ALL RECOGNIZED LOCAL AND FEDERAL REQUIREMENTS. ALL DISPOSAL SHALL BE TO APPROVED OFF-SITE WASTE FACILITIES CLASSIFIED TO ACCEPT THAT MATERIAL.

ALL PETROLEUM PRODUCTS SHALL BE STORED AND USED IN AN AREA WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR. EMERGENCY CONTACT NUMBERS AND PROCEDURES FOR SPILLS SHALL BE AVAILABLE ON-SITE.

DRIP PANS WILL BE AVAILABLE FOR VEHICLES AND EQUIPMENT TO PREVENT OIL AND OTHER PETROLEUM PRODUCTS FROM SPILLING ONTO SOIL OR WATER.

SECONDARY CONTAINMENT IS REQUIRED FOR PETROLEUM AND OIL STORAGE TANKS.

INVENTORY OF PRODUCTS AND CORRESPONDING MATERIAL SAFETY DATA SHEETS (MSDS) WILL BE KEPT ON THE JOB SITE AT ALL TIMES.

NO PRODUCT WASTE OR EXCESS OF ANY KIND WILL BE DUMPED OR DISPOSED TO THE GROUND, INCLUDING BUT NOT LIMITED TO, PAINT, PAINT PRIMER, PAINT STRIPPER, SOLVENTS, ACIDS, BASES, OILS, GREASES, ADHESIVES, GLUES, PASTES, SEALANTS, SOLDER, CAULKING, GROUT, PUTTY, WAXES, SHEET ROCK, INSULATION, ACETATE, COOLANT, CORROSION INHIBITOR, CLEANING COMPOUNDS, HERBICIDES, TERMITICIDES, FUNGICIDE, WEED KILLERS, PESTICIDE, ETC.



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CE-232

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DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES						
N.O.	DATE	DESCRIPTION	TERRELL CREEK SEWER IMPROVEMENTS ES&PC NOTES						
			SURVYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE
			DRAWN BY E GRIGGS	DESIGNED BY T SMITH	CHECKED BY K. HAMBLEN	APPROVED BY T KELLEY	DATE SEP 2017		
ENGINEER OF RECORD			PROJECT NUMBER:				SHEET 33 OF 53		

Ds1

DISTURBED AREA STABILIZATION
(WITH MULCHING ONLY)

DEFINITION

APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.

CONDITIONS

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.

SPECIFICATIONS

MULCHING WITHOUT SEEDING

THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION

- GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
- INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS.
- LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS

SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:

- DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
- WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
- CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQ.YD.).
- POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND REUSED.

APPLYING MULCH

WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

- DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
- IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
- CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.
- APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH

- STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERRECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TB-TACKIFIERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
- POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

Ds2

DISTURBED AREA STABILIZATION
(WITH TEMPORARYSEEDING)

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

CONDITIONS

TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED.

SPECIFICATIONS

GRADING AND SHAPING

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.

WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS NEED LIME APPLICATION. SOILS CAN BE TESTED FOR FERTILITY. UNREASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER), DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEED BY HAND.

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

Georgia Soil & Water Conservation Commission															
Manual for Erosion and Sediment Control in Georgia (amended 2014)															
Table 6-4.1 - Plants, planting rates and planting dates for TEMPORARY COVER or COMPANION CROPS															
Major Land Resource Area (MLRA): <i>Southern Piedmont</i> (P), per Figure 6-4.1															
Species	Broadcast Rates		Planting Dates*												Remarks
	per acre (lbs.)	per 1000 sq.ft. (lbs.)	J	F	M	A	M	J	J	A	S	O	N	D	
Lovegrass, weeping (<i>Eragrostis curvula</i>)															
alone	4	0.1				-	X	X	-						1,500,000 seed per pound. May last for several years. Mix with <i>Sericea lespedeza</i> .
in mixtures	2	0.05													
Millet, browntop (<i>Panicum fasciculatum</i>)															
alone	40	0.9				-	X	X	-						137,000 seed per pound. Quick dense cover. Will provide too much competition in mixtures if seeded at high rates.
in mixtures	10	0.2													
Millet, pearl (<i>Pennisetum glaucum</i>)															
alone	50	1.1				-	X	X	X	-					88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
Ryegrass, annual (<i>Lolium temulentum</i>)															
alone	40	0.9				-	-	-	-		-	X	X	X	X
* 'X' are optimum dates; '-' are permissible but marginal dates															

Ds3

DISTURBED AREA STABILIZATION
(WITH PERMANENT SEEDING)

DEFINITION

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION..

CONDITIONS

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDED AREAS.

SPECIFICATIONS

GRADING AND SHAPING

- GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED.
- VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.
- WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION.
- CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS.

SEEDBED PREPARATION

- SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

BROADCAST PLANTINGS

- TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.
- TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
- ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

- WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE PLANTING.
- FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.
- WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.

PLANTING

- HYDRAULIC SEEDING
 - MIX THE SEED (INNOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.
- CONVENTIONAL SEEDING
 - SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.
- NO-TILL SEEDING
 - NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.
- INDIVIDUAL PLANTS
 - SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS. NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TIPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE. WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE, TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE.

MULCHING

- MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:
- DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
- WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
- ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER.
- SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
- PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
- WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.
- BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

APPLYING MULCH

- STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.
- WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH

- ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:
- EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT.
- THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF GRADE SS-1H OR CSS-1H EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH.
- CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERS, THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS, AND ALL OTHER STRUCTURES FROM ASPHALT DISCOLORATION.
- HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERRECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL.
- SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY GDOT SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. REFER TO TB - TACKIFIERS AND BINDERS.
- RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE HALF BUSHEL PER ACRE.
- PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

IRRIGATION

- IRRIGATION SHALL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

Lime Application for PERMANENT COVER - DS3
Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise.

Georgia Soil & Water Conservation Commission																
Manual for Erosion and Sediment Control in Georgia (amended 2009)																
Table 6-2 - Plants, planting rates and planting dates for PERMANENT COVER																
Major Land Resource Area (MLRA): Southern Piedmont (P), per Figure 6-4.1																
Species	Broadcast Rates		Planting Dates*													Remarks
	per acre (lbs.)	per 1000 sq.ft. (lbs.)	J	F	M	A	M	J	J	A	S	O	N	D		
Bermuda, common (Cynodon dactylon) - Hulled																
alone	10	0.2			-	X	X	-							1,787,000 seed per pound. Quick cover. Low growing and sod-forming. Full sun. Good for athletic fields.	
with other perennials	6	0.1														
Bermuda, common (Cynodon dactylon) - Unhulled			X	X								X	X	X		
alone	10	0.2													Plant with winter annuals. Plant with Tall fescue.	
with other perennials	6	0.1														
Fescue, tall (Festuca arvensis)																
alone	50	1.1								-	X	X			227,000 seed per pound. Use alone only on better sites. Not for droughty soils. Mix with perennial lespedezas or Crowsnest. Apply topdressing in spring following fall plantings. Not for heavy use areas or athletic fields.	
with other perennials	30	0.7														
Lowgrass, weeping (Eragrostis curvula)																
alone	4	0.1			-	X	X	-							1,500,000 seed per pound. May last for several years. Grows well with Sericea lespedeza on road banks.	
with other perennials	2	0.05														
* 'X' are optimum dates; '-' are permissible but marginal dates																

Ds4

DISTURBED AREA STABILIZATION
(WITH SODDING)

DEFINITION

A permanent vegetation using sods on highly erodible or critically eroded lands.

CONDITIONS

This application is appropriate for areas which require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow.

CONSTRUCTION SPECIFICATIONS INSTALLATION

Soil Preparation

- Bring Soil Surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.
- Topsoil properly applied will help guarantee stand. Don't use topsoil recently treated with herbicides or soil sterilants.
- Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1. For fall planting of warm season species, half the fertilizer should be applied at planting and the other half in the spring.
- Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

INSTALLATION

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

MATERIALS

- Sod selected should be certified. Sod grown in the general area of the project is desirable.
- Sod should be machine cut and contain 3/4" ±1/4" of soil, not including shoots or thatch.
- Sod should be cut to the desired size within ±5%. Torn or uneven pads should be rejected.
- Sod should be cut and installed within 36 hours of digging.
- Avoid planting when subject to frost heave or hot weather if irrigation is not available.
- The sod type should be shown on the plans or installed according to Table 6-6.2. See Figure 6-4.1 for your Resource Area.

MAINTENANCE

- Re-sod areas where an adequate stand of sod is not obtained.
- New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified.
- Apply one ton of agricultural lime as indicated by soil test or every 4-6 years.
- Fertilize grasses in accordance with soil tests or Table 6-6.3.

Table 6-6.1 Fertilizer Requirements for Soil Surface Application

Fertilizer Type (lbs./acre)	Fertilizer Rate (lbs
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DEFINITION

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

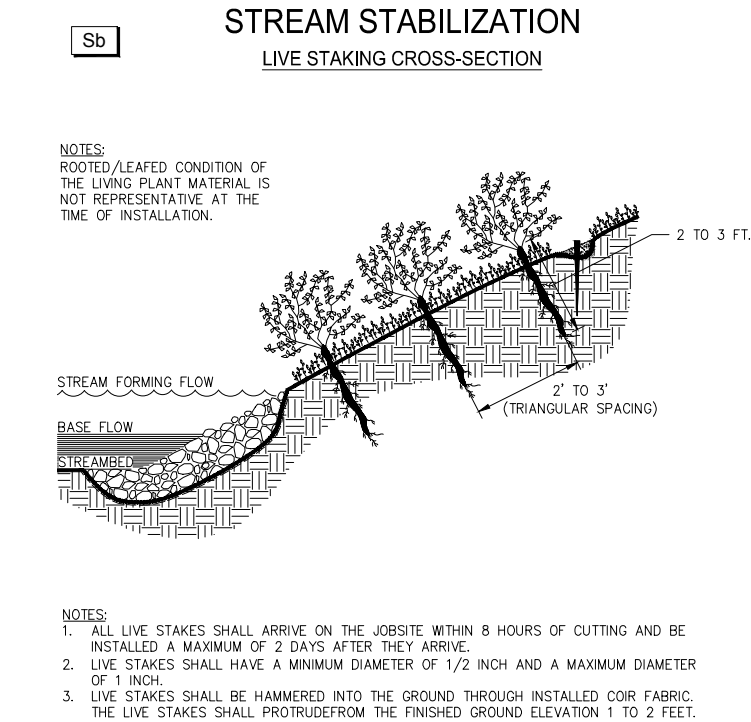
CONDITIONS

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

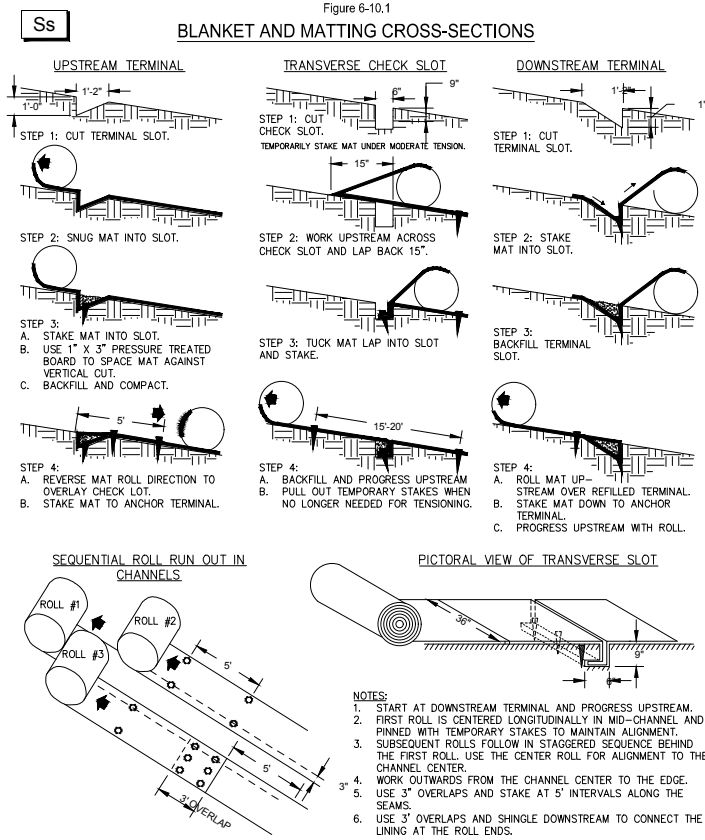
METHOD AND MATERIALS

- A. TEMPORARY METHODS
- MULCHES. SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATAK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 - VEGETATIVE COVER. SEE STANDARD DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
 - SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD TB-TACKIFIERS AND BINDERS.
 - TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
 - IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
 - BARRIERS. SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
 - CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.
- B. PERMANENT METHODS
- PERMANENT VEGETATION: SEE STANDARD DS3 -DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
 - TOPSOILING: THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE STANDARD TP - TOPSOILING.
 - STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD STABILIZATION.

Georgia Soil & Water Conservation Commission				
Manual for Erosion and Sediment Control in Georgia (amended 2014)				
Table 6-5.1 - Fertilizer Requirements				
Species	Year	N-P-K	Rate (lbs./acre)	N Top-Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	
	Maintenance	10-10-10	400	30
Cool season grasses & legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	
	Maintenance	0-10-10	400	
Ground covers	First	10-10-10	1300	
	Second	10-10-10	1300	
	Maintenance	10-10-10	1100	
Pine Seedlings	First	20-10-5	*	
Shrub Lespedeza	First	0-10-10	700	
	Maintenance	0-10-10	700	
Temporary cover crops seeded alone	First	10-10-10	500	30
Warm season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30
Warm season grasses and legumes	First	6-12-12	1500	50
	Second	0-10-10	1000	
	Maintenance	0-10-10	400	
* one 21-gram pellet per seedling placed in the closing hole				



TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)



GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOODING)			A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

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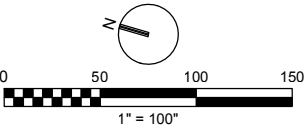
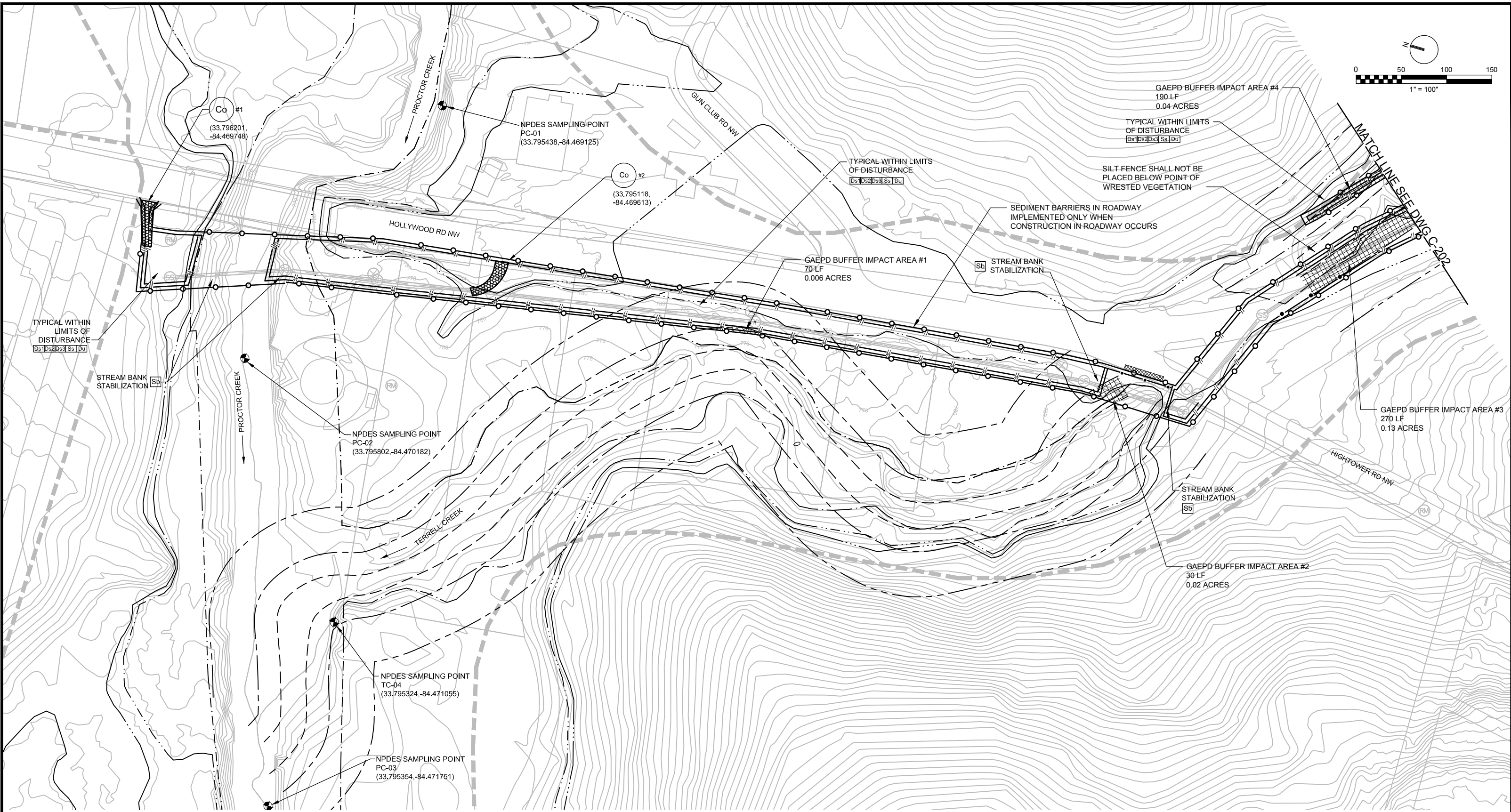
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Certification Number: 0000069253 Expires: 08-21-2019
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REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES						
NO.	DATE	DESCRIPTION	TERRELL CREEK SEWER IMPROVEMENTS ES&PC DETAILS						
			SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE	
			DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	FULTON	NTS	
			E GRIGGS	T SMITH	C HAMBLÉN	T KELLEY			
ENGINEER OF RECORD			PROJECT NUMBER:			35 SHEET OF 53			



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EROSION CONTROL LEGEND

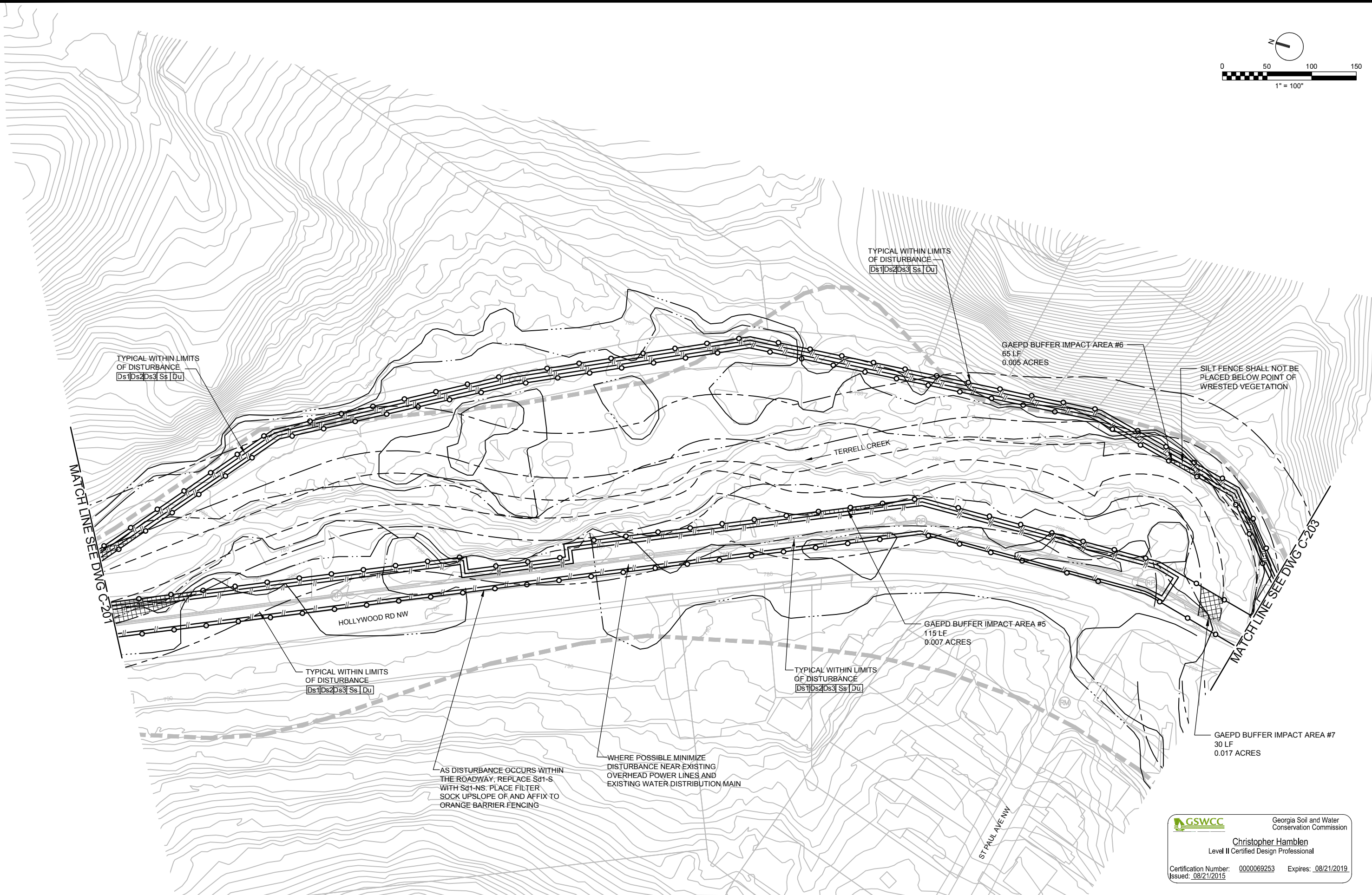
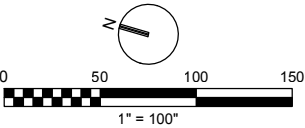
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| | LIMIT OF DISTURBANCE/
ORANGE SAFETY FENCE | |
| | SILT FENCE | |
| | COMPOST FILTER SOCK | |
| | INLET PROTECTION | |
| | CONSTRUCTION EXIT | |
| | WETLAND | |
| | GAEPD BUFFER IMPACT | |

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| | POINT OF WRESTED VEGETATION |
| | 25' GAEPD UNDISTURBED BUFFER
AS MEASURED FROM POINT OF
WRESTED VEGETATION |
| | CITY OF ATLANTA 75' STREAM BUFFER |
| | FEMA REGULATORY FLOODWAY |
| | FEMA 100 YR FLOOD BOUNDARY |
| | FEMA 500 YR FLOOD BOUNDARY |
| | NPDES SAMPLING LOCATION |
| | SOIL TYPE BOUNDARY |
| | SOIL TYPE |

ch2m hill
674854
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811
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	N.O.	DATE	DESCRIPTION								
				TERRELL CREEK SEWER IMPROVEMENTS ES&PC PLAN							
				SURVEYOR		FIELD BOOKS		L.L. DIST.		COUNTY	SCALE
			DRAWN BY E. GRIGGS		DESIGNED BY T. SMITH		CHECKED BY K. HAMBLÉN		APPROVED BY T. KELLEY	DATE SEP 2017	
ENGINEER OF RECORD				PROJECT NUMBER: 674754						38	SHEET OF 53

GSWCC Georgia Soil and Water
Conservation Commission
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EROSION CONTROL LEGEND

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|--|--|--------|
| | LIMIT OF DISTURBANCE/
ORANGE SAFETY FENCE | Tr |
| | SILT FENCE | Sd1-S |
| | COMPOST FILTER SOCK | Sd1-NS |
| | INLET PROTECTION | Sd2-P |
| | CONSTRUCTION EXIT | Co |
| | WETLAND | |
| | GAEPD BUFFER IMPACT | |

- | | |
|--|---|
| | POINT OF WRESTED VEGETATION |
| | 25' GAEPD UNDISTURBED BUFFER
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WRESTED VEGETATION |
| | CITY OF ATLANTA 75' STREAM BUFFER |
| | FEMA REGULATORY FLOODWAY |
| | FEMA 100 YR FLOOD BOUNDARY |
| | FEMA 500 YR FLOOD BOUNDARY |
| | NPDES SAMPLING LOCATION |
| | SOIL TYPE BOUNDARY |
| | SOIL TYPE |

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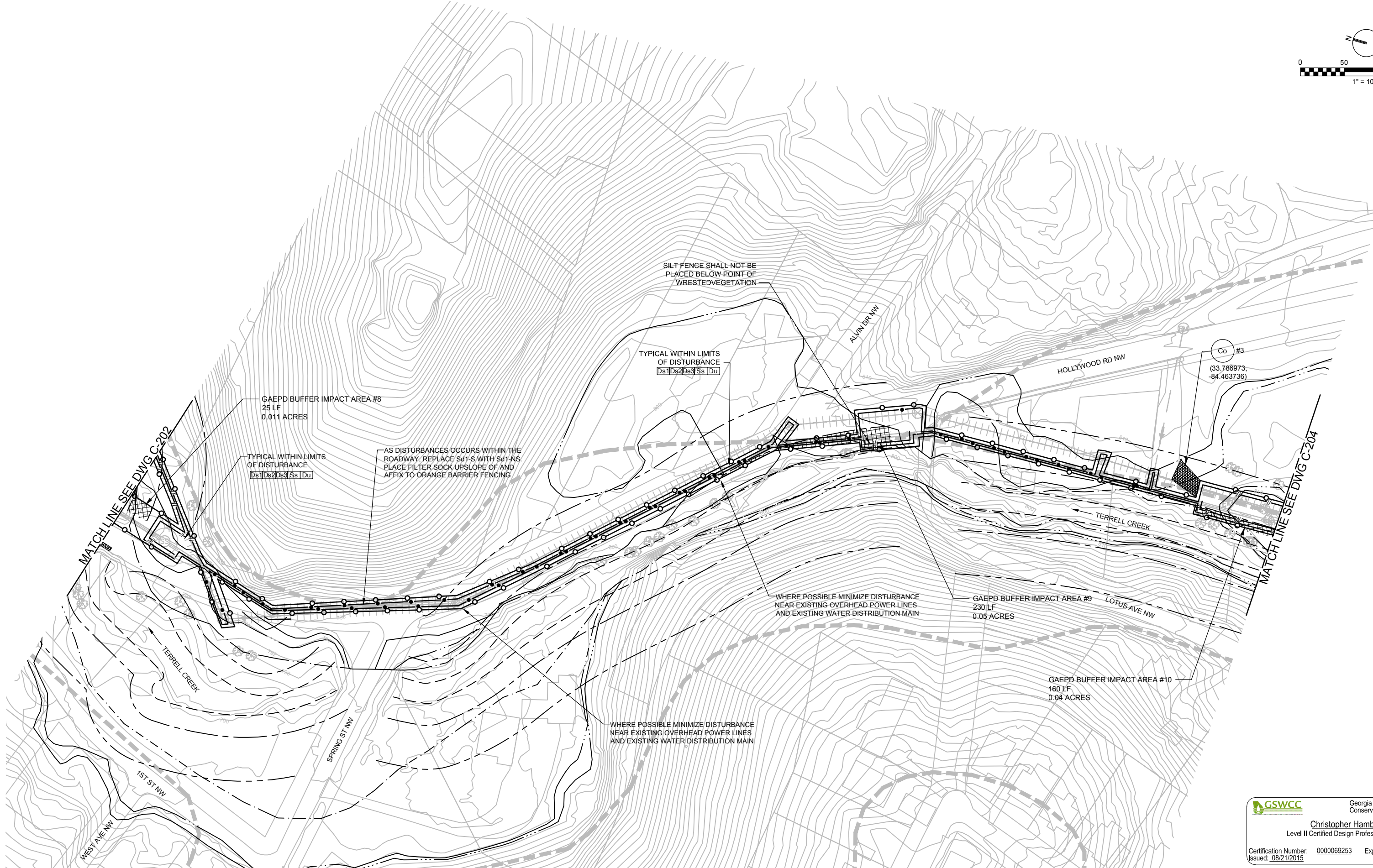
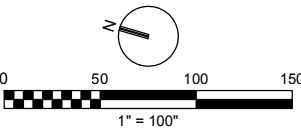
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	ENGINEER OF RECORD				PROJECT NUMBER: 674754				39 SHEET OF 53			

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EROSION CONTROL LEGEND

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| | LIMIT OF DISTURBANCE/
ORANGE SAFETY FENCE | Tr |
| | SILT FENCE | (Sd1-S) |
| | COMPOST FILTER SOCK | (Sd1-AS) |
| | INLET PROTECTION | (Sd2-P) |
| | CONSTRUCTION EXIT | (Co) |
| | WETLAND | |
| | GAEPD BUFFER IMPACT | |

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| | FEMA 500 YR FLOOD BOUNDARY |
| | NPDES SAMPLING LOCATION |
| | SOIL TYPE BOUNDARY |
| | SOIL TYPE |

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										NO.	DATE
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				SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE	
				DRAWN BY E. GRIGGS		DESIGNED BY T SMITH		CHECKED BY K. HAMBLIN		APPROVED BY T. KELLEY	
ENGINEER OF RECORD				PROJECT NUMBER: 674754						40	SHEET OF 53

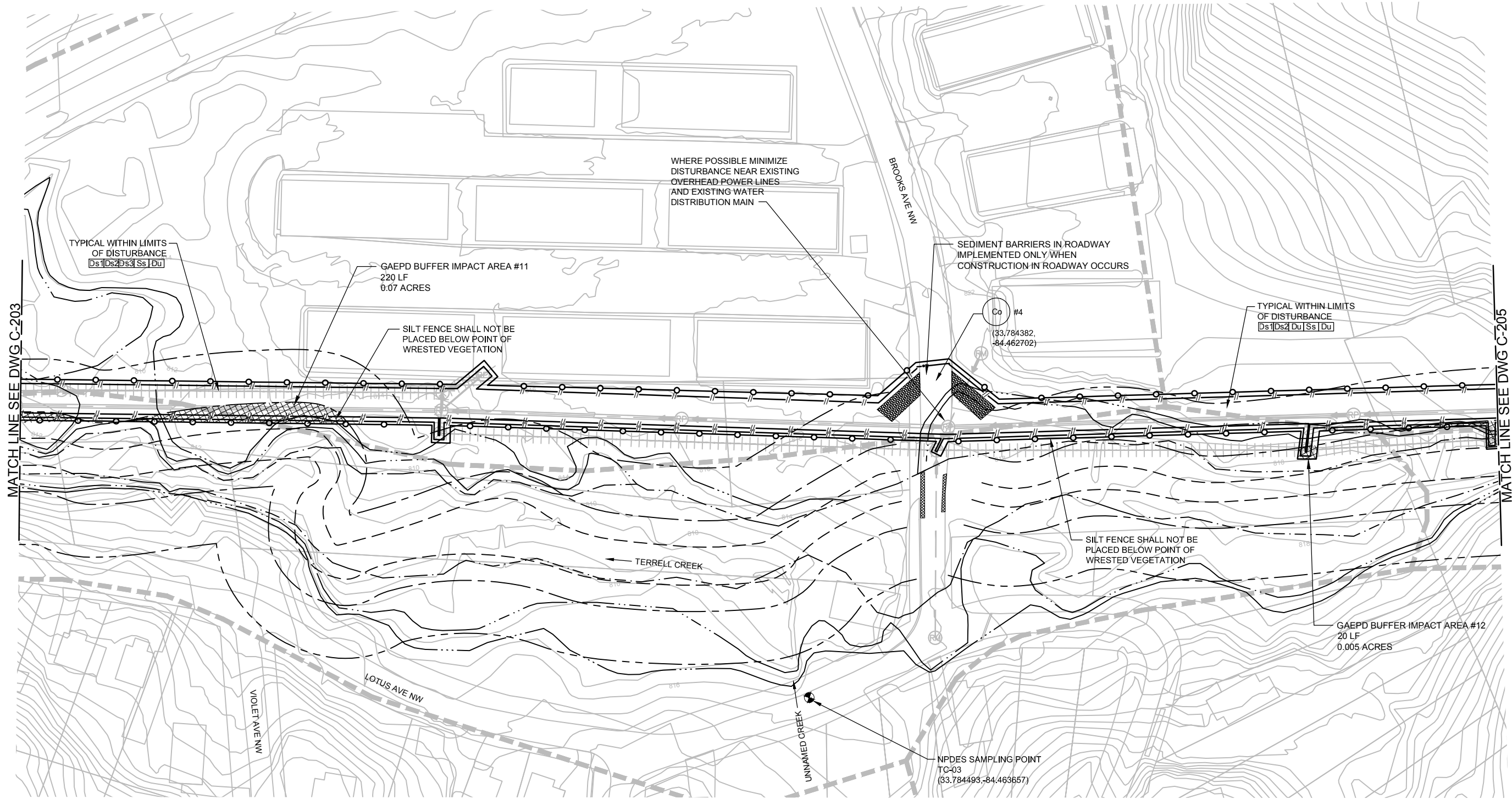
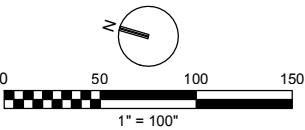
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EROSION CONTROL LEGEND

- LIMIT OF DISTURBANCE/ ORANGE SAFETY FENCE (Tr)
- /-/-/-/- SILT FENCE (Sd1-S)
- COMPOST FILTER SOCK (Sd1-AD)
- XXXXX INLET PROTECTION (Sd2-P)
- CONSTRUCTION EXIT (Co)
- WETLAND
- GAEPD BUFFER IMPACT

- POINT OF WRESTED VEGETATION
- 25' GAEPD UNDISTURBED BUFFER AS MEASURED FROM POINT OF WRESTED VEGETATION
- CITY OF ATLANTA 75' STREAM BUFFER
- FEMA REGULATORY FLOODWAY
- FEMA 100 YR FLOOD BOUNDARY
- FEMA 500 YR FLOOD BOUNDARY
- NPDES SAMPLING LOCATION
- SOIL TYPE BOUNDARY
- SOIL TYPE
- CpA

ch2m hill
ROH&DFox
A joint venture

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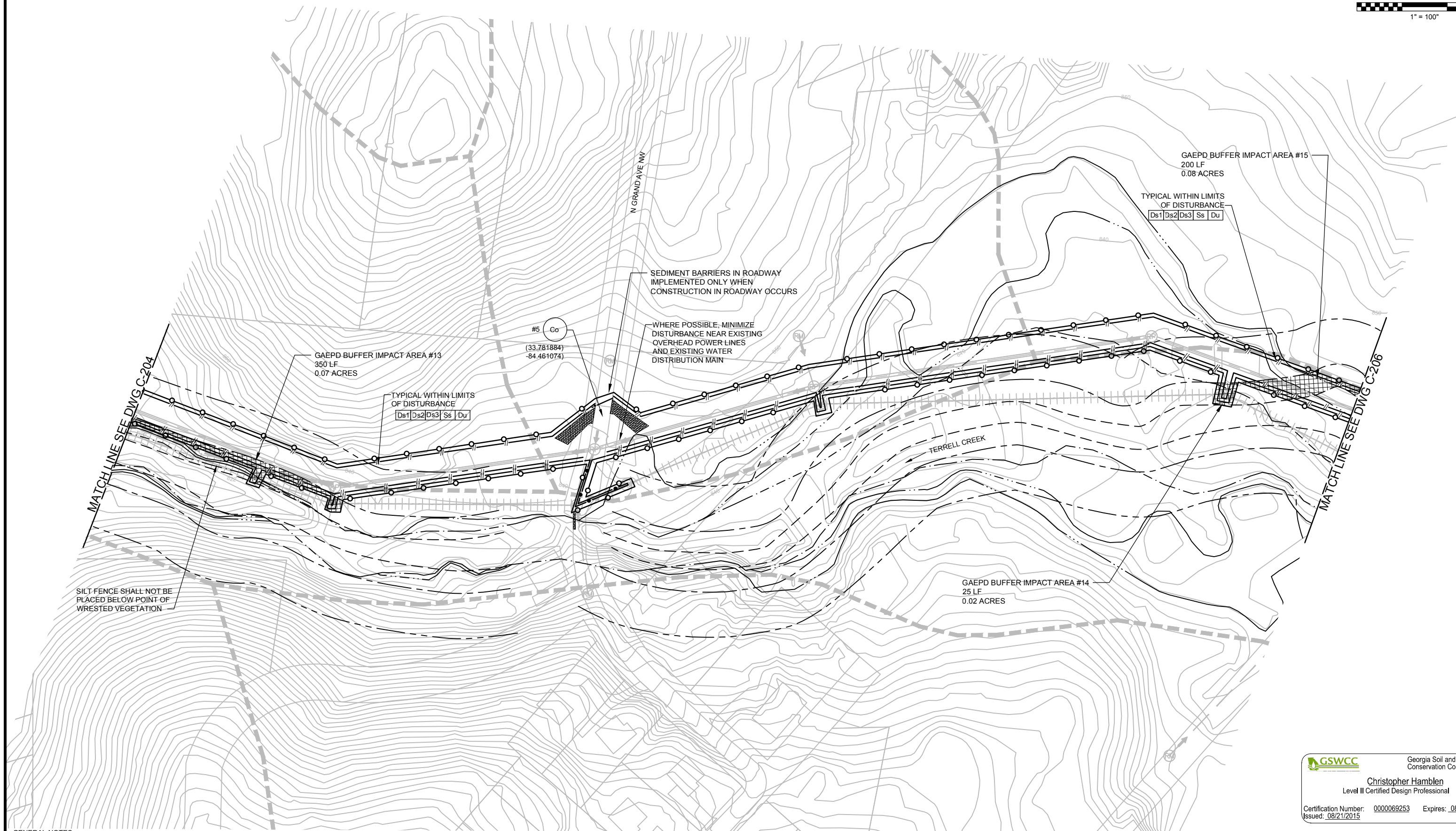
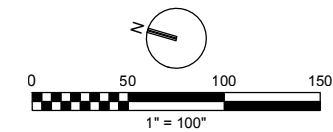
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				SURVEYOR		FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE
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ENGINEER OF RECORD				PROJECT NUMBER: 674754				41 SHEET OF 53			

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EROSION CONTROL LEGEND	
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	SILT FENCE (Sd1-S)
	COMPOST FILTER SOCK (Sd1-AB)
	INLET PROTECTION (Sd2-P)
	CONSTRUCTION EXIT (Co)
	WETLAND
	GAEPD BUFFER IMPACT

	POINT OF WRESTED VEGETATION
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	FEMA REGULATORY FLOODWAY
	FEMA 100 YR FLOOD BOUNDARY
	FEMA 500 YR FLOOD BOUNDARY
	NPDES SAMPLING LOCATION
	SOIL TYPE BOUNDARY
	SOIL TYPE

ch2m hill **ROH&FOX**
A HILL GROUP COMPANY

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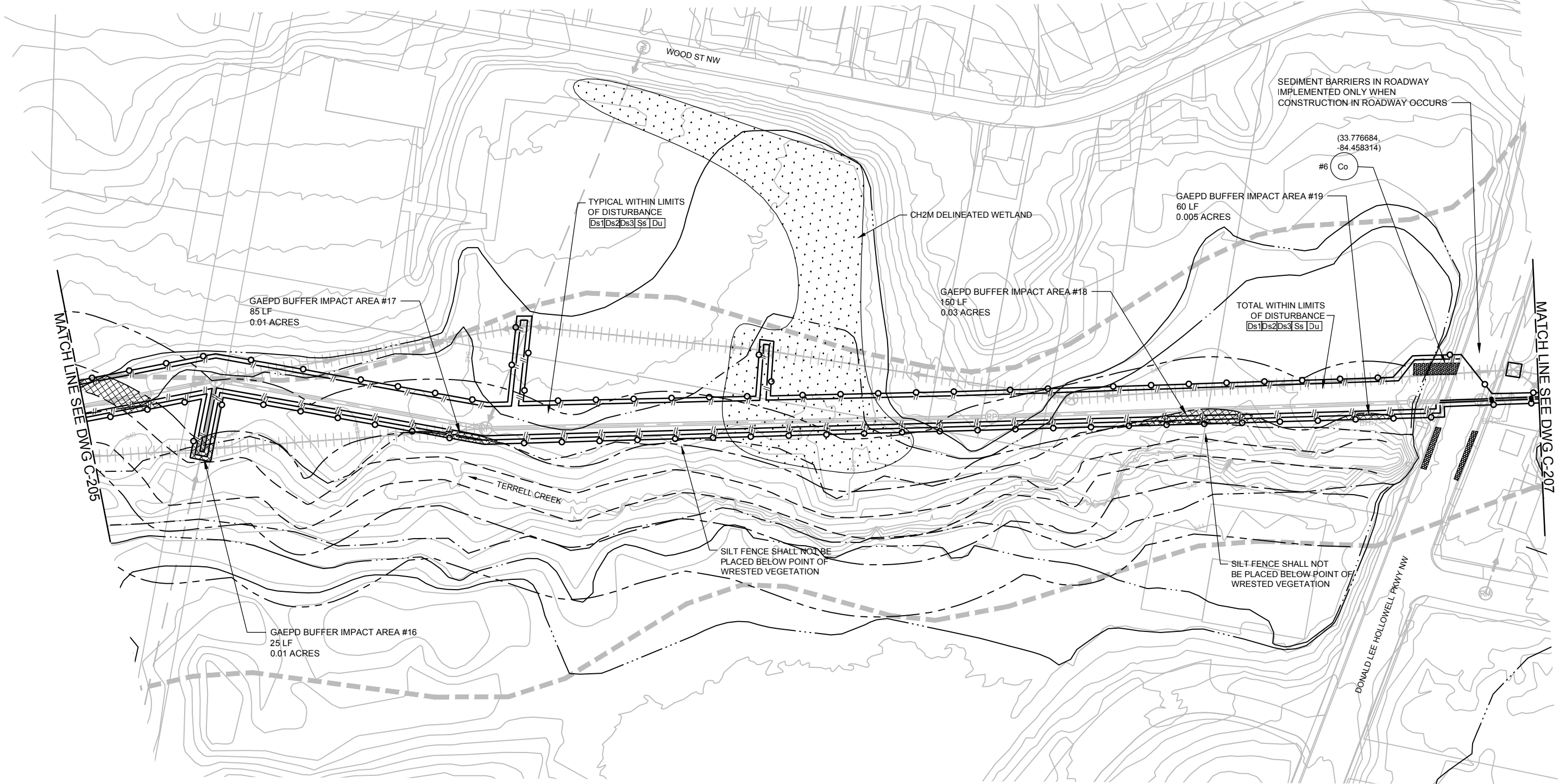
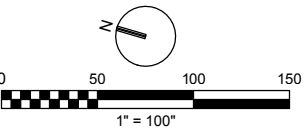
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				SURVEYOR		FIELD BOOKS	L.L. DIST.	COUNTY	SCALE	
				DRAWN BY E. GRIGGS		DESIGNED BY T SMITH	CHECKED BY K. HAMBLÉN	APPROVED BY T. KELLEY	DATE SEP 2017	
				PROJECT NUMBER: 674754					SHEET OF 53	
	ENGINEER OF RECORD									

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100% REVIEW DOCUMENTS



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EROSION CONTROL LEGEND

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| | LIMIT OF DISTURBANCE/
ORANGE SAFETY FENCE | Tr |
| | SILT FENCE | Sd1-S |
| | COMPOST FILTER SOCK | Sd1-NB |
| | INLET PROTECTION | Sd2-P |
| | CONSTRUCTION EXIT | Co |
| | WETLAND | |
| | GAEPD BUFFER IMPACT | |

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| | SOIL TYPE BOUNDARY |
| | SOIL TYPE |

ch2m | **ROH&FOX**
A MWH COMPANY

TC-005-CE-206_674854.dwg

CE-206

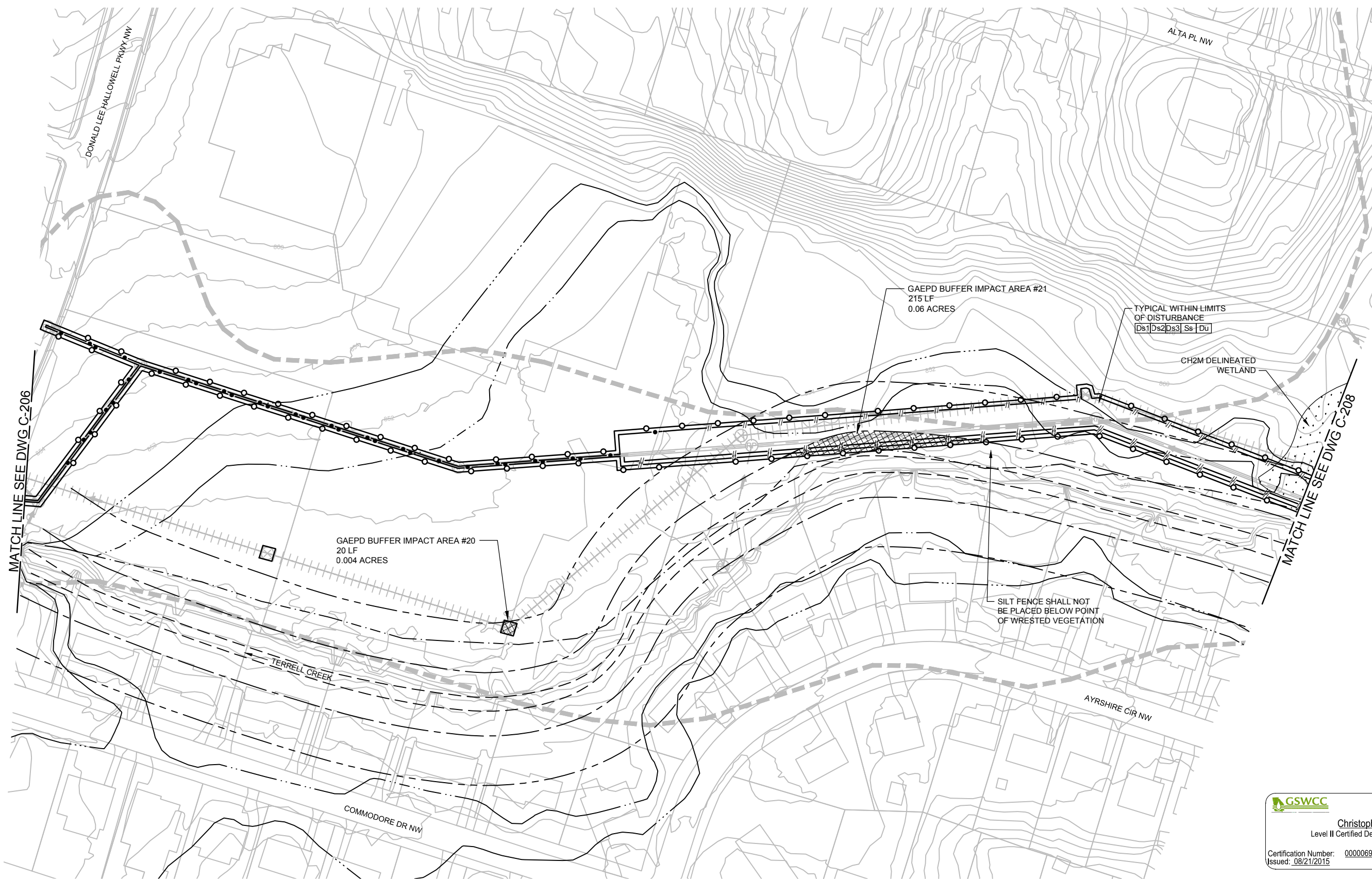
811
Know what's below.
Call before you dig.

DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
	REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
	NO.	DATE	DESCRIPTION						
				TERRELL CREEK SEWER IMPROVEMENTS ES&PC PLAN					
				SURVEYOR		FIELD BOOKS	L.L. DIST.	COUNTY	SCALE
				DRAWN BY E. GRIGGS		DESIGNED BY T SMITH	CHECKED BY K. HAMBLEN	APPROVED BY T. KELLEY	DATE SEP 2017
ENGINEER OF RECORD			PROJECT NUMBER: 674854				43 SHEET OF 53		

GSWCC Georgia Soil and Water
Conservation Commission

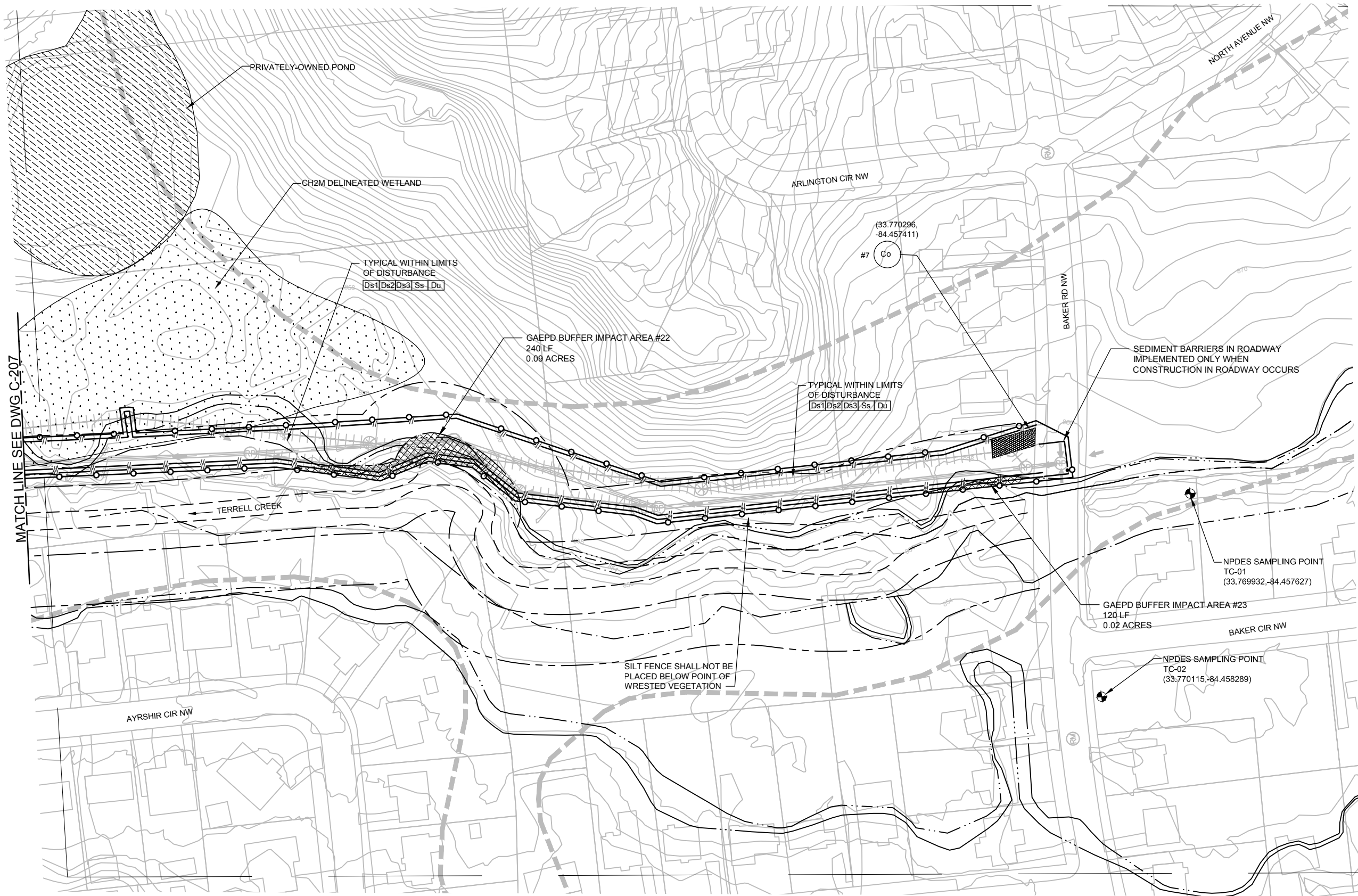
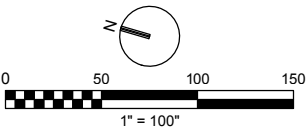
Christopher Hamblen
Level II Certified Design Professional

Certification Number: 0000069253 Expires: 08/21/2019
Issued: 08/21/2015



DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED											
	REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES							
	NO.	DATE	DESCRIPTION								
				TERRELL CREEK SEWER IMPROVEMENTS ES&PC PLAN							
				SURVEYOR		FIELD BOOKS	L.L.	DIST.	COUNTY		SCALE
				DRAWN BY E. GRIGGS		DESIGNED BY T SMITH	CHECKED BY K. HAMBLÉN		APPROVED BY T. KELLEY	DATE SEP 2017	
	ENGINEER OF RECORD			PROJECT NUMBER: 674754				44 SHEET OF 53			

The image shows the official seal of the Georgia Soil and Water Conservation Commission. At the top left is the GSWCC logo, which consists of a stylized green plant icon next to the letters 'GSWCC' in a bold, green, sans-serif font. To the right of the logo, the full name of the commission, 'Georgia Soil and Water Conservation Commission', is written in a smaller, black, sans-serif font. Below this, the name 'Christopher Hamblen' is prominently displayed in a large, black, serif font. Underneath the name, the title 'Level II Certified Design Professional' is written in a smaller, black, sans-serif font. At the bottom of the seal, there are three fields: 'Certification Number: 0000069253', 'Issued: 08/21/2015', and 'Expires: 08/21/2019'. The numbers and dates are underlined, and the entire seal is enclosed in a thin black rectangular border.



GENERAL NOTES

1. SEDIMENT AND EROSION CONTROLS AND ACCESS ROUTES SHOWN ON THIS DRAWING MAY BE FIELD ADJUSTED IF APPROVED BY BOTH THE ENGINEER AND THE CITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE PROPOSED LOCATION OF ALL CONSTRUCTION ACCESS ROUTES, AND FLAG ANY TREES THAT REQUIRE REMOVAL. THE ENGINEER, THE CITY, AND EFFECTED PROPERTY OWNER SHALL BE IN AGREEMENT WITH THE CONTRACTOR'S PROPOSED ACCESS ROUTES AND TREE REMOVAL PLANS PRIOR TO PROCEEDING WITH ANY ACTIVITIES.
2. PERMANENT SEEDING (Ds3) SHALL BE APPLIED ONLY WHEN PROJECT AREA IS READY FOR PERMANENT STABILIZATION DURING FINAL PHASES OF CONSTRUCTION.
3. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS BMP'S STATED IN THESE ESCP DRAWINGS SHALL BE REMOVED AFTER ENTIRE PROJECT HAS BEEN STABILIZED AND APPROVED IN WRITING BY THE ENGINEER AND THE CITY.
4. SEDIMENT BARRIERS HAVE BEEN DELIBERATELY OFFSET FROM THE LIMITS OF DISTURBANCE FOR VISUALIZATION PURPOSES. SILT FENCE AND COMPOST FILTER STOCK SHALL BE PLACED 2' INSIDE OF LIMITS OF DISTURBANCE OR 1' INSIDE EDGE OF PAVEMENT AS NEEDED TO PROTECT FROM RUNOFF.

EROSION CONTROL LEGEND

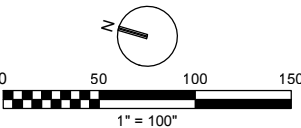
- o---o--- LIMIT OF DISTURBANCE/ ORANGE SAFETY FENCE (Tr)
- - - - - SILT FENCE (Sd1-S)
- COMPOST FILTER SOCK (Sd1-NB)
- XXXXXX INLET PROTECTION (Sd2-P)
- CONSTRUCTION EXIT (Co)
- WETLAND
- GAEPD BUFFER IMPACT

- POINT OF WRESTED VEGETATION
- 25' GAEPD UNDISTURBED BUFFER AS MEASURED FROM POINT OF WRESTED VEGETATION
- CITY OF ATLANTA 75' STREAM BUFFER
- FEMA REGULATORY FLOODWAY
- FEMA 100 YR FLOOD BOUNDARY
- FEMA 500 YR FLOOD BOUNDARY
- NPDES SAMPLING LOCATION
- SOIL TYPE BOUNDARY
- SOIL TYPE

ch2m | ROHLDFox
A joint venture
TC-005-CE-208_678454.dwg
CE-208
811
Know what's below.
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DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED											
	REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES							
	NO.	DATE	DESCRIPTION								
				TERRELL CREEK SEWER IMPROVEMENTS							
				ES&PC PLAN							
				SURVEYOR		FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE
				DRAWN BY E. GRIGGS		DESIGNED BY T SMITH		CHECKED BY K. HAMBLIN		APPROVED BY T. KELLEY	DATE SEP 2017
	ENGINEER OF RECORD				PROJECT NUMBER: 674754				45 SHEET OF 53		

GSWCC Georgia Soil and Water Conservation Commission
Christopher Hamblen
Level II Certified Design Professional
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Issued: 08/21/2015




TREE REMOVAL TABLE FOR DRAWING LE-241				
NUMBER	X	Y	TYPE	SIZE
1	2204475.67	1380719.80	HWD	22"
2	2204479.37	1380681.28	PINE	10"
3	2204509.17	1380599.21	HWD	20"
4	2204509.99	1380564.66	HWD	20"
5	2204527.81	1380542.12	HWD	10"
6	2204578.45	1379908.13	HWD	22"



- GENERAL NOTES
1. ALL SURVEY FOR THIS PROJECT, INCLUDING TREE LOCATION, WAS PROVIDED BY CITY OF ATLANTA.
 2. IT IS ANTICIPATED THAT ALL TREES INSIDE THE LIMITS OF DISTURBANCE WILL BE REMOVED AS PART OF NORMAL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONSERVE TREES INSIDE THE LIMITS OF DISTURBANCE IF POSSIBLE. TREES ANTICIPATED FOR REMOVAL ARE LISTED IN THE TREE REMOVAL TABLE.
 3. CONTRACTOR SHALL INSTALL 4-FT ORANGE TREE PROTECTION FENCE OUTSIDE OF THE SILT FENCE ALONG THE ENTIRE LENGTH OF THE LIMITS OF CLEARING.
 4. RECOMPENSE TABLE LOCATED ON DRAWING LE-248.

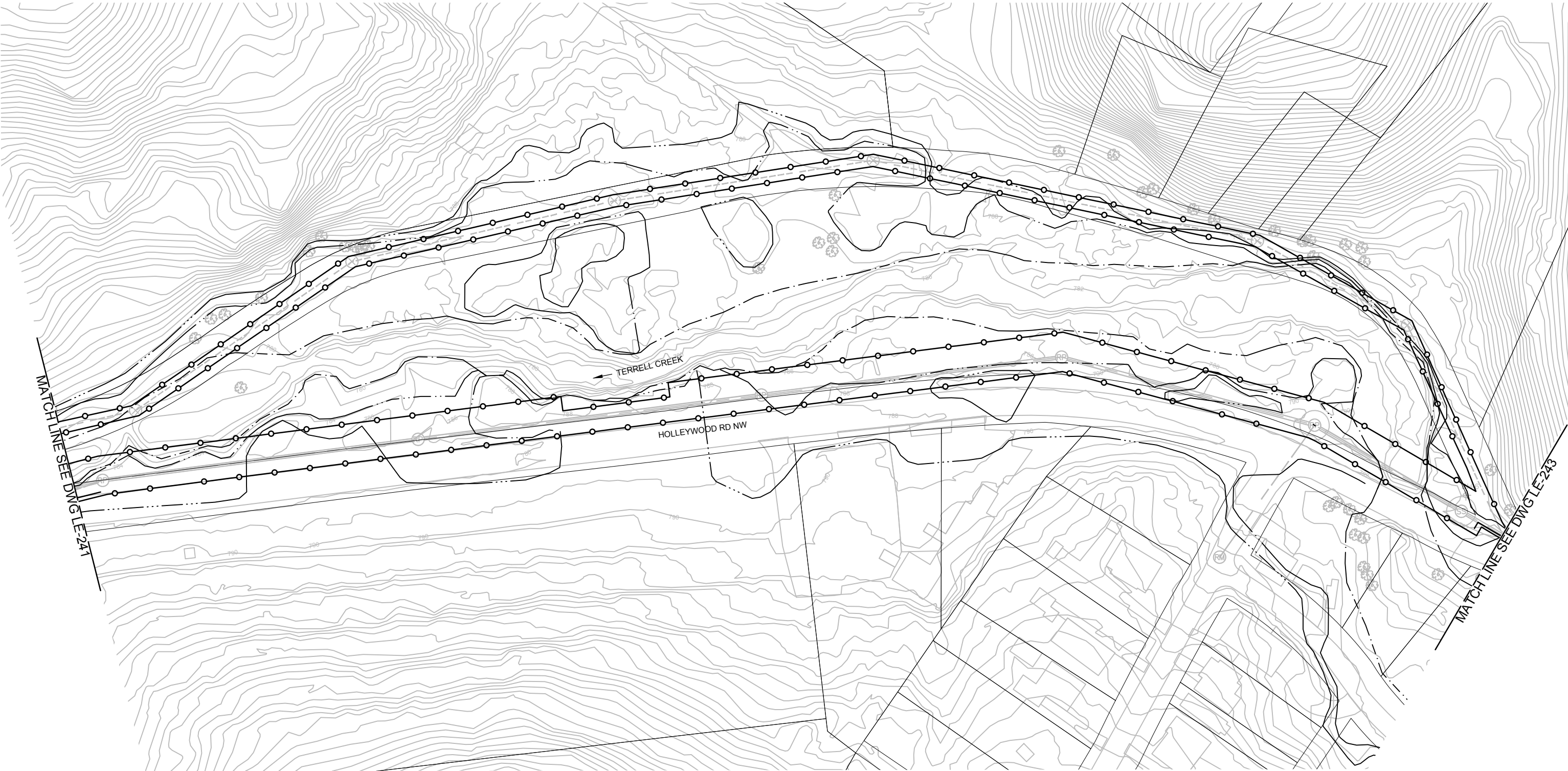
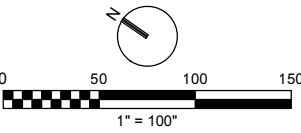
LEGEND

 4 TREE TO BE REMOVED

ch2m hill **ROH&FOX**
A joint venture
674854
TC-005-LE-241_674854.dwg
LE-241


811
Know what's below.
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DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED												
CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES												
TERRELL CREEK SEWER IMPROVEMENTS TREE PROTECTION AND REMOVAL PLAN												
SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE						
DRAWN BY EG	DESIGNED BY T. SMITH	CHECKED BY K. HAMBLIN	APPROVED BY T. KELLEY	DATE SEP 2017								
PROJECT NUMBER: 674754						SHEET 46 OF 53						
ENGINEER OF RECORD												



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 4. RECOMPENSE TABLE LOCATED ON DRAWING LE-248.

LEGEND

 4 TREE TO BE REMOVED

ch2m hill **ROH&DFox**
A joint venture
674854
TC-005-LE-242_674854.dwg
LE-242

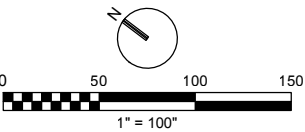
811
Know what's below.
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CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES									
TERRELL CREEK SEWER IMPROVEMENTS TREE PROTECTION AND REMOVAL PLAN									
SURVEYOR		FIELD	BOOKS	L.L.	DIST.	COUNTY		SCALE	
DRAWN BY MG		DESIGNED BY T. SMITH	CHECKED BY K. HAMBLIN	APPROVED BY T. KELLEY		DATE SEP 2017		SHEET OF	
ENGINEER OF RECORD		PROJECT NUMBER: 674754						47 OF 53	

GSWCC Georgia Soil and Water Conservation Commission

Christopher Hamblin
Level II Certified Design Professional

Certification Number: 0000069253 Expires: 08/21/2019
Issued: 08/21/2015



TREE REMOVAL TABLE FOR DRAWING LE-243				
NUMBER	X	Y	TYPE	SIZE
7	2206127.4	1377935.82	HWD	10"
8	2206130.11	1377992.3	HWD	10"
9	2206304.66	1377623.22	HWD	10"
10	2206340.93	1377611.21	HWD	10"
11	2206312.51	1377610.37	HWD	12"
12	2206353.72	1377601.83	HWD	10"
13	2206314.76	1377589.38	HWD	34"
14	2206360.97	1377574.13	HWD	10"
15	2206354	1377563.26	PINE	22"

Georgia Soil and Water
Conservation Commission

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 - RECOMPENSE TABLE LOCATED ON DRAWING LE-248.


LEGEND

4

TREE TO BE REMOVED

678454
TC-005-LE-243_674854.dwg

LE-243

Know what's below.
Call before you dig.

DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED

REVISIONS

NO.	DATE	DESCRIPTION

CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT
OFFICE OF ENGINEERING SERVICES

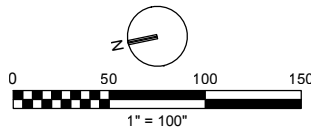
TERRELL CRREK SEWER IMPROVEMENTS
TREE PORTECTION AND REMOVAL PLAN

SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE
DRAWN BY EG	DESIGNED BY T SMITH	CHECKED BY K. HAMBLEN	APPROVED BY T. KELLEY	DATE SEP 2017		

ENGINEER OF RECORD

PROJECT NUMBER: 674754

SHEET 48 OF 53



TREE REMOVAL TABLE FOR DRAWING LE-244				
NUMBER	X	Y	TYPE	SIZE
16	2206376.02	1377553.54	HWD	10"
17	2206337.51	1377537.59	PINE	10"
18	2206347.27	1377533.58	HWD	10"
19	2206394.77	1377523.96	HWD	20"
20	2206399.72	1377506.87	HWD	10"
21	2206375.67	1377503.62	PINE	10"
22	2206405.54	1377490.36	HWD	12"
23	2206363.62	1377475.65	PINE	22"
24	2206369.47	1377472.04	HWD	12"
25	2206364.88	1377470.21	HWD	22"
26	2206413.37	1377466.73	PINE	12"
27	2206379.28	1377450.99	PINE	12"
28	2206381.08	1377434.53	HWD	20"
29	2206437.61	1377412.86	HWD	16"
30	2206390.31	1377406.64	HWD	10"
31	2206422.18	1377406.03	HWD	32"
32	2206395.21	1377394.26	HWD	20"
33	2206448.63	1377369.72	HWD	12"
34	2206395.38	1377367.35	HWD	10"
35	2206434.46	1377364.44	HWD	22"
36	2206405.53	1377352.74	HWD	10"
37	2206453.12	1377351.3	HWD	24"
38	2206405.96	1377349.07	HWD	22"
39	2206457.57	1377339.81	HWD	20"
40	2206458.07	1377330.02	HWD	20"
41	2206458.87	1377319.68	PINE	32"
42	2206457.16	1377316.11	HWD	24"
43	2206408.96	1377310.99	HWD	10"
44	2206424.7	1377297.95	HWD	14"
45	2206428.28	1377292.43	HWD	32"
46	2206447.45	1377222.88	HWD	10"
47	2206452.62	1377211	HWD	10"
48	2206469.16	1377169.18	HWD	22"
49	2206511.44	1377156.64	HWD	12"
50	2206465.89	1377151.01	PINE	14"
51	2206472.26	1377144.61	HWD	12"
52	2206479.94	1377116.34	PINE	18"
53	2206495.14	1377057.71	PINE	12"
54	2206494.73	1377036	HWD	20"
55	2206505.28	1377013	HWD	10"
56	2206531.06	1376938.24	HWD	26"
57	2206531.81	1376921.74	HWD	22"
58	2206581.81	1376766.71	HWD	10"
59	2206648.93	1376716.18	HWD	20"
60	2206653.59	1376715.24	HWD	24"
61	2206611.49	1376701.76	HWD	12"
62	2206606.67	1376681.18	HWD	12"
63	2206612.19	1376675.14	HWD	16"
64	2206658.03	1376618.62	HWD	10"
65	2206660.89	1376543.27	HWD	12"
66	2206673.91	1376513.26	HWD	22"
67	2206707.24	1376508.87	HWD	22"
68	2206718.05	1376505.19	HWD	10"
69	2206711.68	1376499.09	HWD	10"
70	2206722.99	1376452.05	HWD	24"
71	2206693.56	1376443.92	HWD	20"
72	2206732.09	1376435.29	HWD	26"
73	2206699.14	1376430.46	HWD	24"
74	2206714.56	1376381.14	HWD	14"
75	2206706.05	1376353.48	HWD	14"
76	2206784.16	1376336.08	PINE	14"
77	2206744.77	1376311.85	HWD	10"
78	2206742.64	1376308.69	HWD	12"
79	2206799.84	1376302.45	HWD	20"
80	2206799.5	1376288.5	HWD	12"
81	2206796.94	1376283.27	HWD	10"
82	2206781.63	1376280.91	HWD	10"
83	2206807.29	1376270.1	HWD	20"
84	2206819.93	1376262.37	HWD	22"
85	2206769.28	1376250.72	HWD	22"
86	2206816.89	1376244.71	HWD	10"
87	2206774.17	1376238.66	HWD	12"
88	2206818.81	1376237.06	HWD	12"
89	2206770.38	1376229.07	PINE	20"

 Georgia Soil and Water Conservation Commission

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 - RECOMPENSE TABLE LOCATED ON DRAWING LE-248.

LEGEND

 4 TREE TO BE REMOVED

ch2m hill
678454
TC-005-LE-244_678454.dwg
LE-244

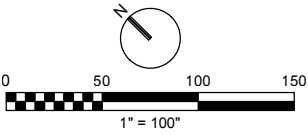

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REVISIONS		CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES						
NO.	DATE	DESCRIPTION						
ENGINEER OF RECORD			PROJECT NUMBER: 674754					
			SURVEYOR		FIELD BOOKS	L.L. DIST.	COUNTY	SCALE
			DRAWN BY		DESIGNED BY T. SMITH	CHECKED BY K. HAMBLÉN	APPROVED BY T. KELLEY	DATE SEP 2017
							SHEET 49 OF 53	

100% REVIEW DOCUMENTS

TREE REMOVAL TABLE FOR DRAWING LE-245				
NUMBER	X	Y	TYPE	SIZE
90	2206831.84	1376219.18	HWD	10"
91	2206832.79	1376208.88	HWD	12"
92	2206825.02	1376198.77	HWD	12"
93	2206847	1376185.3	HWD	20"
94	2206790.18	1376179.41	HWD	22"
95	2206799.6	1376166.25	HWD	22"
96	2206839.71	1376162.96	HWD	12"
97	2206846.33	1376162.05	HWD	10"
98	2206800.16	1376158.66	HWD	20"
99	2206803.23	1376150.14	HWD	20"
100	2206808.29	1376140.19	HWD	10"
101	2206812.6	1376121.69	HWD	20"
102	2206867.92	1376115.56	HWD	22"
103	2206817.95	1376110.8	HWD	10"
104	2206864.58	1376104.22	HWD	20"
105	2206862.75	1376101.27	HWD	12"
106	2206829.15	1376086.61	HWD	12"
107	2206839.23	1376056.43	HWD	26"
108	2206887.74	1376041.7	HWD	20"
109	2206903.74	1376036.62	HWD	22"
110	2206842.99	1376031.92	PINE	22"
111	2206931.78	1375968.72	HWD	26"
112	2206944.63	1375962.61	HWD	32"
113	2206954.77	1375921.38	HWD	12"
114	2206999.46	1375876.41	HWD	12"
115	2207079.61	1375854.43	HWD	10"
116	2207051.15	1375846.16	HWD	10"
117	2207070.36	1375809.53	HWD	22"
118	2207074.7	1375808.81	HWD	26"
119	2207278.95	1375681.29	HWD	10"
120	2207396.72	1375636.72	HWD	12"
121	2207389.63	1375634.89	PINE	16"
122	2207430.23	1375619.51	HWD	22"
123	2207379.35	1375592.78	HWD	24"
124	2207500.52	1375552.35	PINE	12"
125	2207501.71	1375545.97	HWD	10"
126	2207433.14	1375540.68	HWD	10"
127	2207460.84	1375535.85	HWD	22"
128	2207572.96	1375492.06	HWD	22"
129	2207499.25	1375491.95	PINE	14"
130	2207585.29	1375487.39	HWD	12"
131	2207602.39	1375486.93	HWD	22"
132	2207514.9	1375484.03	HWD	26"
133	2207609.49	1375481.35	PINE	14"
134	2207624.59	1375450.24	PINE	12"
135	2207547.92	1375445.32	HWD	24"
136	2207625.96	1375436.79	HWD	26"
137	2207627.77	1375428.71	HWD	24"
138	2207595.94	1375400.55	HWD	12"
139	2207656.51	1375392.13	HWD	26"
140	2207634.01	1375358.38	HWD	22"
141	2207680.67	1375356.8	HWD	22"
142	2207667.71	1375343.81	HWD	10"
143	2207635.08	1375336.35	HWD	10"
144	2207665.87	1375334.94	HWD	10"
145	2207640.88	1375328.99	HWD	10"
146	2207678.25	1375298.79	HWD	22"
147	2207685.6	1375295.53	HWD	24"
148	2207698.8	1375262.01	HWD	22"
149	2207670.7	1375248.46	HWD	12"
150	2207678.78	1375239.18	HWD	16"
151	2207700.94	1375238.81	HWD	10"





Georgia Soil and Water
Conservation Commission


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 - RECOMPENSE TABLE LOCATED ON DRAWING LE-248.

LEGEND

 4 TREE TO BE REMOVED



678454
TC-005-LE-245_674854.dwg
LE-245

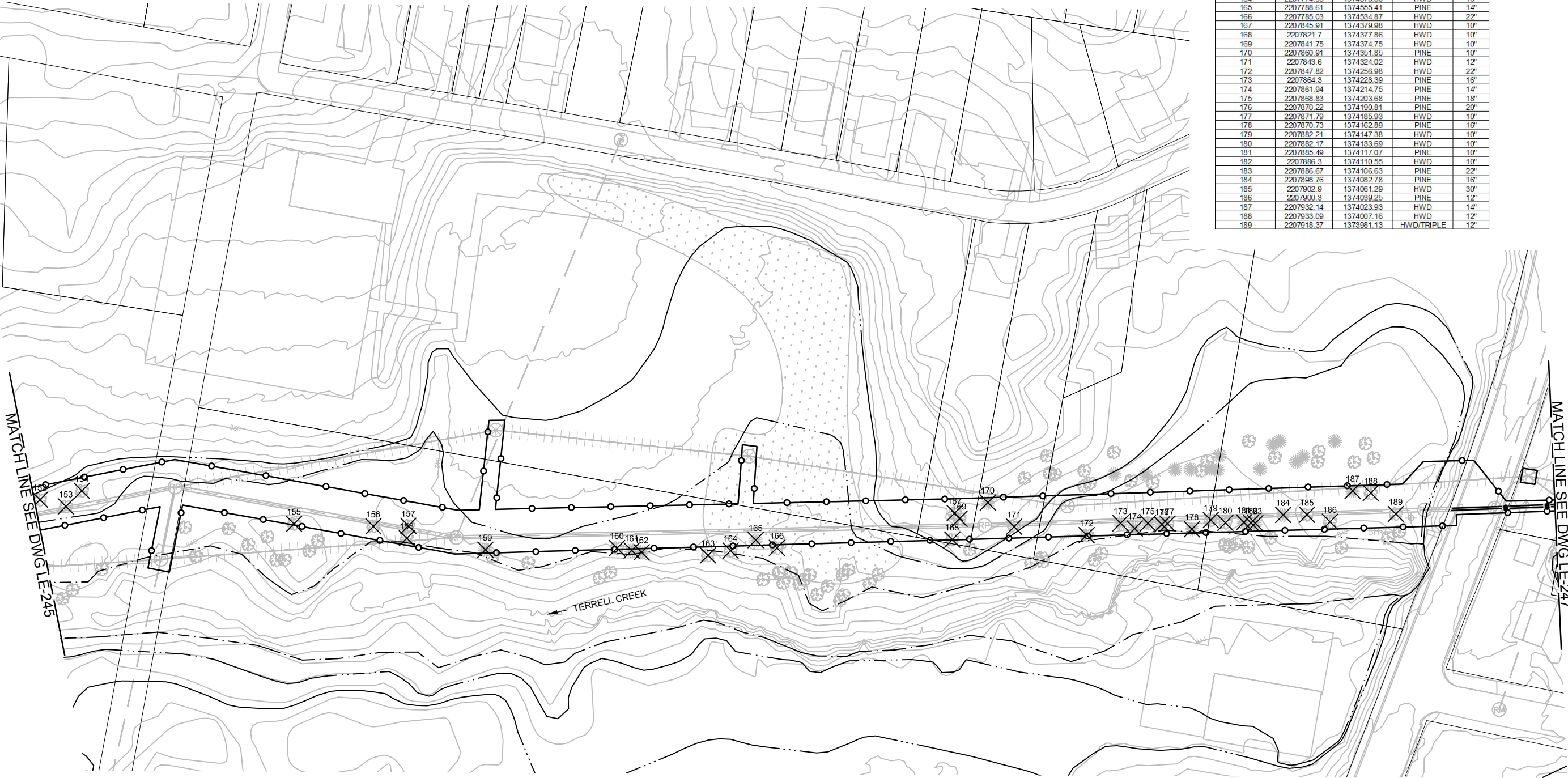
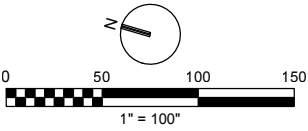


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	NO.	DATE	DESCRIPTION									
				TERRELL CREEK SEWER IMPROVEMENTS TREE PROTECTION AND REMOVAL PLAN								
				SURVEYOR		FIELD BOOKS		L.L.	DIST.	COUNTY	SCALE	
				DRAWN BY EG		DESIGNED BY T SMITH		CHECKED BY K. HAMBLEN		APPROVED BY T. KELLEY		DATE SEP 2017
	ENGINEER OF RECORD				PROJECT NUMBER: 674754						50	SHEET OF 53

100% REVIEW DOCUMENTS


TREE REMOVAL TABLE FOR DRAWING LE-246				
NUMBER	X	Y	TYPE	SIZE
152	2207706.43	1375209.19	HWD	24"
153	2207704.67	1375184.51	HWD	24"
154	2207721.41	1375172.66	HWD	22"
155	2207726.77	1374975.43	HWD	26"
156	2207737.64	1374903.33	HWD	24"
157	2207743.94	1374871.78	HWD	18"
158	2207732.44	1374871.17	HWD	24"
159	2207735	1374798.28	PINE	22"
160	2207758.42	1374679.53	HWD	18"
161	2207758.6	1374665.74	PINE	22"
162	2207758.69	1374656.5	PINE	22"
163	2207766.81	1374595.98	HWD	22"
164	2207774.93	1374576.38	HWD	16"
165	2207788.61	1374555.41	PINE	14"
166	2207785.03	1374534.87	HWD	22"
167	2207845.91	1374379.98	HWD	10"
168	2207821.7	1374377.86	HWD	10"
169	2207841.75	1374374.75	HWD	10"
170	2207860.91	1374351.85	PINE	10"
171	2207843.6	1374324.02	HWD	12"
172	2207847.82	1374256.98	HWD	22"
173	2207864.3	1374228.39	PINE	16"
174	2207861.94	1374214.75	PINE	14"
175	2207868.83	1374203.68	PINE	18"
176	2207870.22	1374190.81	PINE	20"
177	2207871.79	1374185.93	HWD	10"
178	2207870.73	1374162.89	PINE	16"
179	2207882.21	1374147.38	HWD	10"
180	2207882.17	1374133.69	HWD	10"
181	2207885.49	1374117.07	PINE	10"
182	2207886.3	1374110.55	HWD	10"
183	2207896.67	1374106.63	PINE	22"
184	2207898.76	1374082.73	PINE	16"
185	2207902.9	1374061.29	HWD	30"
186	2207900.3	1374039.25	PINE	12"
187	2207932.14	1374023.93	HWD	14"
188	2207933.09	1374007.16	HWD	12"
189	2207918.37	1373981.13	HWD/TRIPLE	12"




- GENERAL NOTES
1. ALL SURVEY FOR THIS PROJECT, INCLUDING TREE LOCATION, WAS PROVIDED BY CITY OF ATLANTA.
 2. IT IS ANTICIPATED THAT ALL TREES INSIDE THE LIMITS OF DISTURBANCE WILL BE REMOVED AS PART OF NORMAL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONSERVE TREES INSIDE THE LIMITS OF DISTURBANCE IF POSSIBLE. TREES ANTICIPATED FOR REMOVAL ARE LISTED IN THE TREE REMOVAL TABLE.
 3. CONTRACTOR SHALL INSTALL 4-FT ORANGE TREE PROTECTION FENCE OUTSIDE OF THE SILT FENCE ALONG THE ENTIRE LENGTH OF THE LIMITS OF CLEARING.
 4. RECOMPENSE TABLE LOCATED ON DRAWING LE-248.

LEGEND

 4 TREE TO BE REMOVED


678454
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LE-246

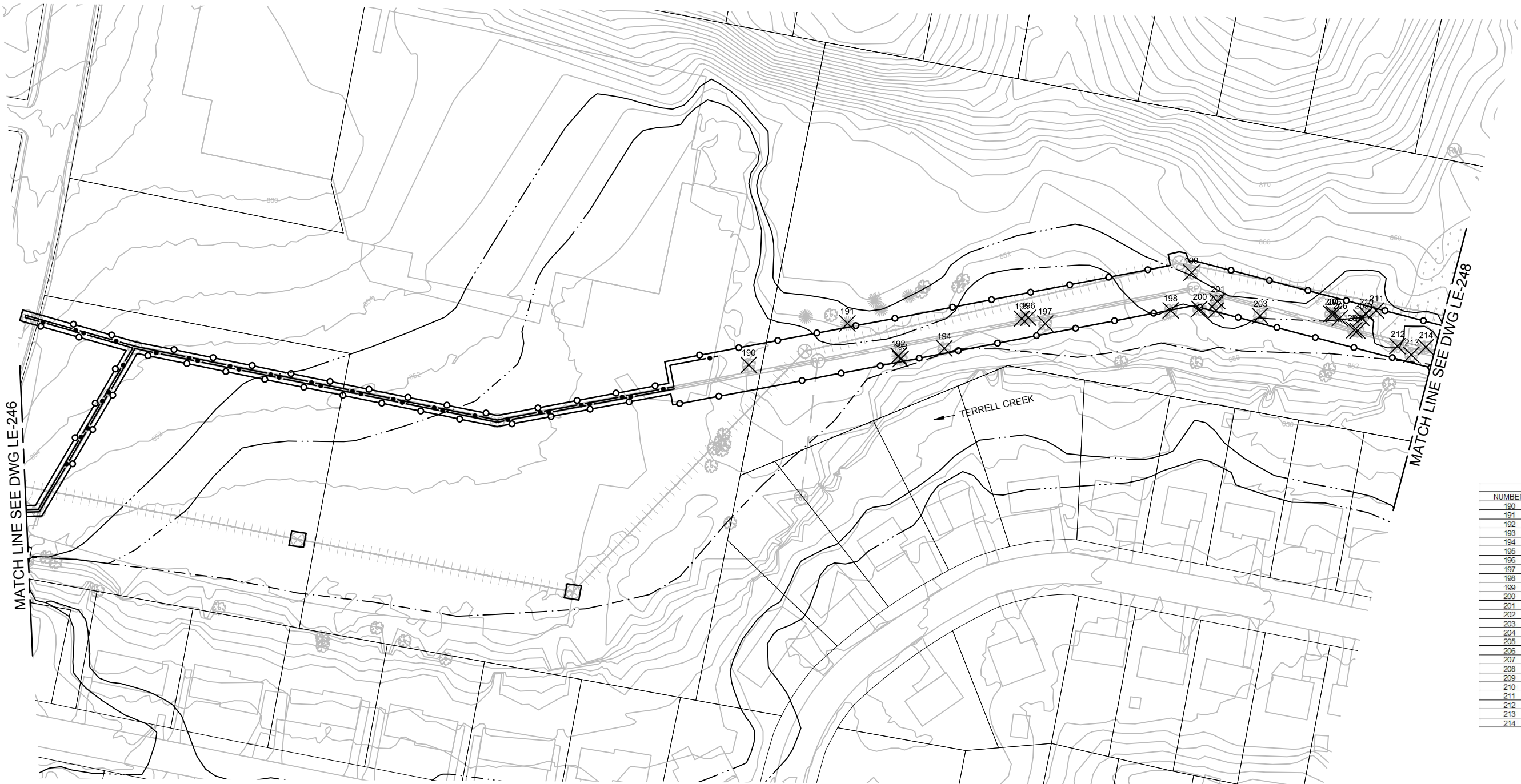
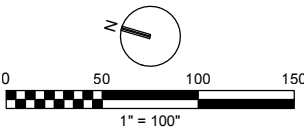

Know what's below.
Call before you dig.

DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
REVISIONS					CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES				
NO.	DATE	DESCRIPTION			TERRELL CREEK SEWER IMPROVEMENTS TREE PROTECTION AND REMOVAL				
					SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY
					DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE
					EG	T SMITH	K. HAMBLÉN	T. KELLEY	SEP 2017
ENGINEER OF RECORD					PROJECT NUMBER: 674854		SHEET 51 OF 53		


Georgia Soil and Water
Conservation Commission

Christopher Hamblen
Level II Certified Design Professional

Certification Number: 0000069253 Expires: 08/21/2019
Issued: 08/21/2015



TREE REMOVAL TABLE FOR DRAWING LE-247				
NUMBER	X	Y	TYPE	SIZE
190	2208202.4	1373214.42	HWD	24"
191	2208255.75	1373132.75	PINE	16"
192	2208235.05	1373081.63	PINE	18"
193	2208232.64	1373079.23	HWD	16"
194	2208249.28	1373041.71	HWD	10"
195	2208288.78	1372977.15	PINE	24"
196	2208290.58	1372971.61	HWD	10"
197	2208288.18	1372955.4	HWD	10"
198	2208320.54	1372845.03	HWD	10"
199	2208357.89	1372832.64	HWD	12"
200	2208326.71	1372819.59	HWD	22"
201	2208336.59	1372804.73	HWD	10"
202	2208327.95	1372804.57	HWD	24"
203	2208330.33	1372764.14	HWD	20"
204	2208343.95	1372700.52	HWD	10"
205	2208344.08	1372698.28	HWD	26"
206	2208341.55	1372692.2	PINE	12"
207	2208333.02	1372677.32	HWD	22"
208	2208333.14	1372674.29	HWD	26"
209	2208345.35	1372672.86	HWD	24"
210	2208349.52	1372669.3	HWD	22"
211	2208354.29	1372660.9	HWD	24"
212	2208325.83	1372636.02	HWD	22"
213	2208320.41	1372622.08	HWD	10"
214	2208329.56	1372610.42	HWD	10"

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 - CONTRACTOR SHALL INSTALL 4-FT ORANGE TREE PROTECTION FENCE OUTSIDE OF THE SILT FENCE ALONG THE ENTIRE LENGTH OF THE LIMITS OF CLEARING.
 - RECOMPENSE TABLE LOCATED ON DRAWING LE-248.

LEGEND

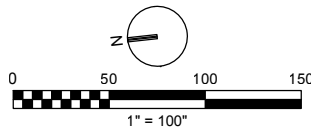
 4 TREE TO BE REMOVED

ch2m hill **ROH&DFox**
A joint venture
678454
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LE-247

811
Know what's below.
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DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED																				
<div>REVISIONS</div> <table><thead><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr></thead><tbody><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></tbody></table>	NO.	DATE	DESCRIPTION													CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES				
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TERRELL CREEK SEWER IMPROVEMENTS TREE PROTECTION AND REMOVAL																				
SURVEYOR	FIELD	BOOKS	L.L.	DIST.	COUNTY	SCALE														
DRAWN BY EG	DESIGNED BY T SMITH	CHECKED BY K. HAMBLÉN	APPROVED BY T. KELLEY	DATE SEP 2017																
ENGINEER OF RECORD		PROJECT NUMBER: 674854				SHEET 52 OF 53														

GSWCC Georgia Soil and Water Conservation Commission
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TREE REMOVAL TABLE FOR DRAWING LE-248				
NUMBER	X	Y	TYPE	SIZE
215	2208322.38	1372562.41	HWD	10"
216	2208342.61	1372570.15	HWD	24"
217	2208330.22	1372560.82	HWD	24"
218	2208339.96	1372555.32	PINE	22"
219	2208313.13	1372553.14	HWD	22"
220	2208318.39	1372552.33	PINE	22"
221	2208325.62	1372541.66	HWD	10"
222	2208315.15	1372525.48	HWD	10"
223	2208308.09	1372521.57	PINE	20"
224	2208308.74	1372514.49	HWD	20"
225	2208318.05	1372506.63	PINE	10"
226	2208310.57	1372501.32	HWD	14"
227	2208325.38	1372499.3	PINE	14"
228	2208317.13	1372492.68	PINE	10"
229	2208311.51	1372491.48	PINE	20"
230	2208311.85	1372481.34	PINE	20"
231	2208328.11	1372445.8	HWD	24"
232	2208324.56	1372435.21	PINE	22"
233	2208308.51	1372418.33	HWD	8'H
234	2208310.53	1372404.66	HWD	10"
235	2208315.28	1372387.96	HWD	24"
236	2208335.2	1372366.94	HWD	36"
237	2208304.48	1372321.65	HWD	36"
238	2208336.38	1372231.64	PINE	24"
239	2208308.18	1372149.32	HWD	10"
240	2208264	1372135.91	HWD	10"
241	2208277.76	1372135.49	HWD	10"
242	2208283.39	1372132.47	HWD	10"
243	2208302.89	1372116.25	HWD	10"
244	2208264.29	1372112.98	HWD	24"
245	2208268.1	1372107.18	HWD	10"
246	2208266.43	1372102.39	HWD	14"
247	2208246.72	1372090.02	HWD	22"
248	2208293.36	1372085.47	HWD	10"
249	2208255.78	1372069.66	HWD	10"
250	2208232.5	1372066.61	HWD	10"
251	2208230.51	1372039.33	PINE	24"
252	2208223.69	1372021.99	PINE	10"
253	2208223.41	1372016.44	HWD	12"
254	2208224.38	1372011.91	PINE	26"
255	2208200.94	1371995.95	PINE	10"
256	2208194.95	1371990.95	HWD	10"
257	2208228.36	1371949.61	PINE	10"
258	2208237.34	1371945.14	HWD	12"
259	2208189.06	1371930.39	HWD	10"
260	2208212.55	1371929.08	HWD	10"
261	2208194.94	1371914.03	HWD	22"
262	2208199.74	1371895.95	HWD	10"
263	2208206.27	1371894.32	HWD	10"
264	2208198.87	1371874.47	HWD	14"
265	2208221.27	1371867.25	HWD	22"
266	2208200.51	1371862.37	HWD	12"
267	2208211.04	1371849.78	HWD	10"
268	2208222.85	1371834.23	HWD	10"
269	2208195.57	1371832.59	HWD	10"
270	2208192.99	1371829.71	HWD	10"
271	2208215.4	1371826.81	PINE	28"
272	2208200.92	1371826.03	HWD	14"
273	2208200.13	1371787.59	HWD	14"
274	2208212.27	1371785.67	HWD	12"
275	2208193.53	1371687.19	HWD	10"
276	2208193.64	1371682.57	HWD	10"
277	2208199.77	1371680.11	HWD	16"
278	2208187.59	1371679.94	HWD	10"
279	2208192.88	1371674.26	PINE	34"
280	2208199.21	1371668.8	HWD	12"
281	2208200.08	1371666.84	HWD	10"
282	2208190.44	1371664.79	HWD	16"
283	2208191.45	1371648.15	PINE	38"
284	2208191.75	1371630.43	HWD	12"
285	2208207.52	1371616.11	HWD/TWIN	10"

RECOMPENSE CALCULATION

Infrastructure Recompense		
Disturbed Acreage	9.5	
Recompense per Disturbed Acre	\$5,000	
Recompense Cost		\$47,500



Georgia Soil and Water
Conservation Commission


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 - RECOMPENSE TABLE LOCATED ON DRAWING LE-248.


LEGEND

 4 TREE TO BE REMOVED




678454
TC-005-LE-248_678454.dwg

LE-248



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		NO.	DATE	DESCRIPTION	TERRELL CREEK SEWER IMPROVEMENTS TREE PROTECTION AND REMOVAL PLAN		
ENGINEER OF RECORD					SURVEYOR	FIELD BOOKS	L.L. DIST. COUNTY SCALE
					DRAWN BY	DESIGNED BY	CHECKED BY APPROVED BY DATE
					EG	T SMITH	K. HAMBLEN T. KELLEY SEP 2017
					PROJECT NUMBER: 674754		SHEET 53 OF 53