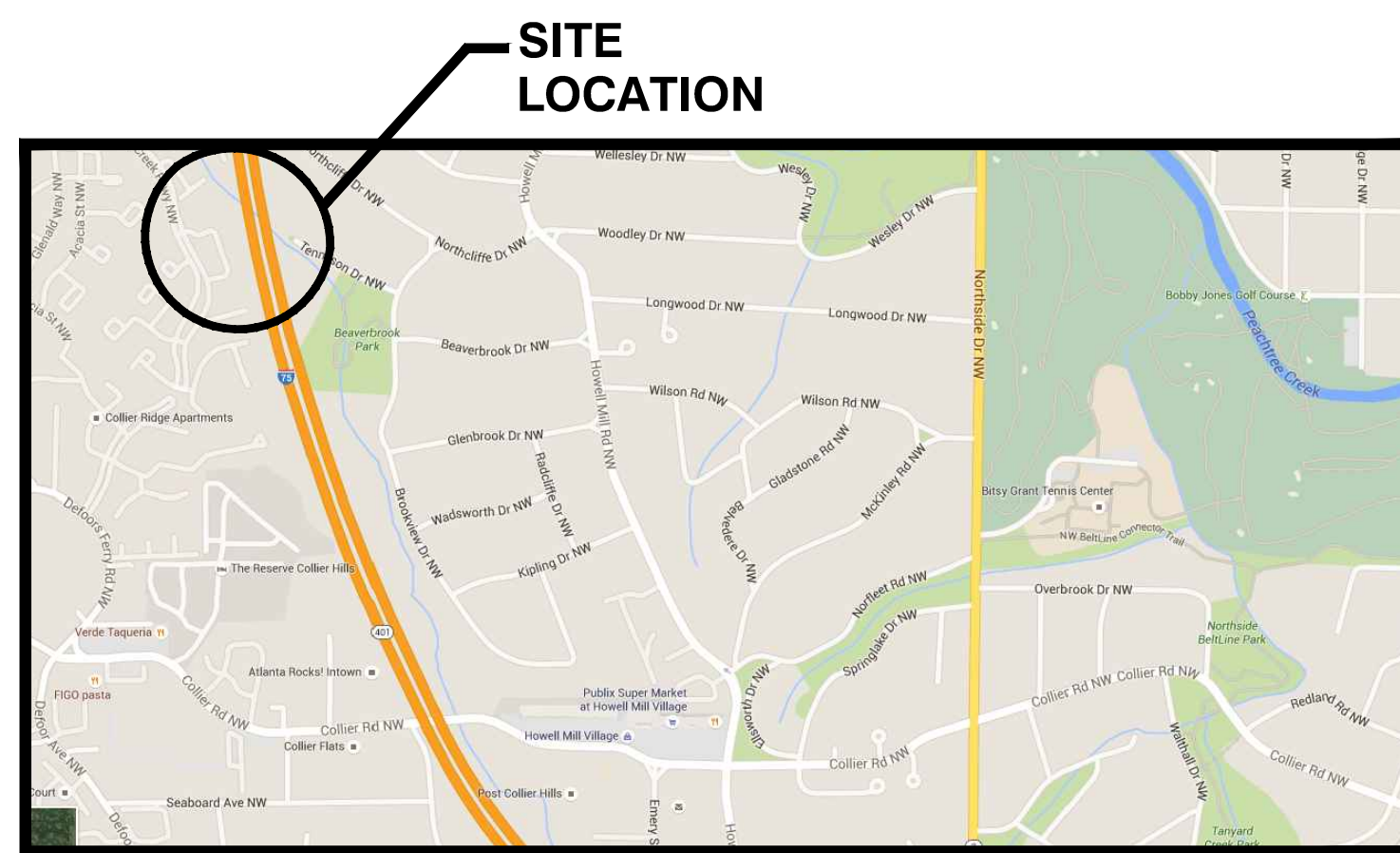


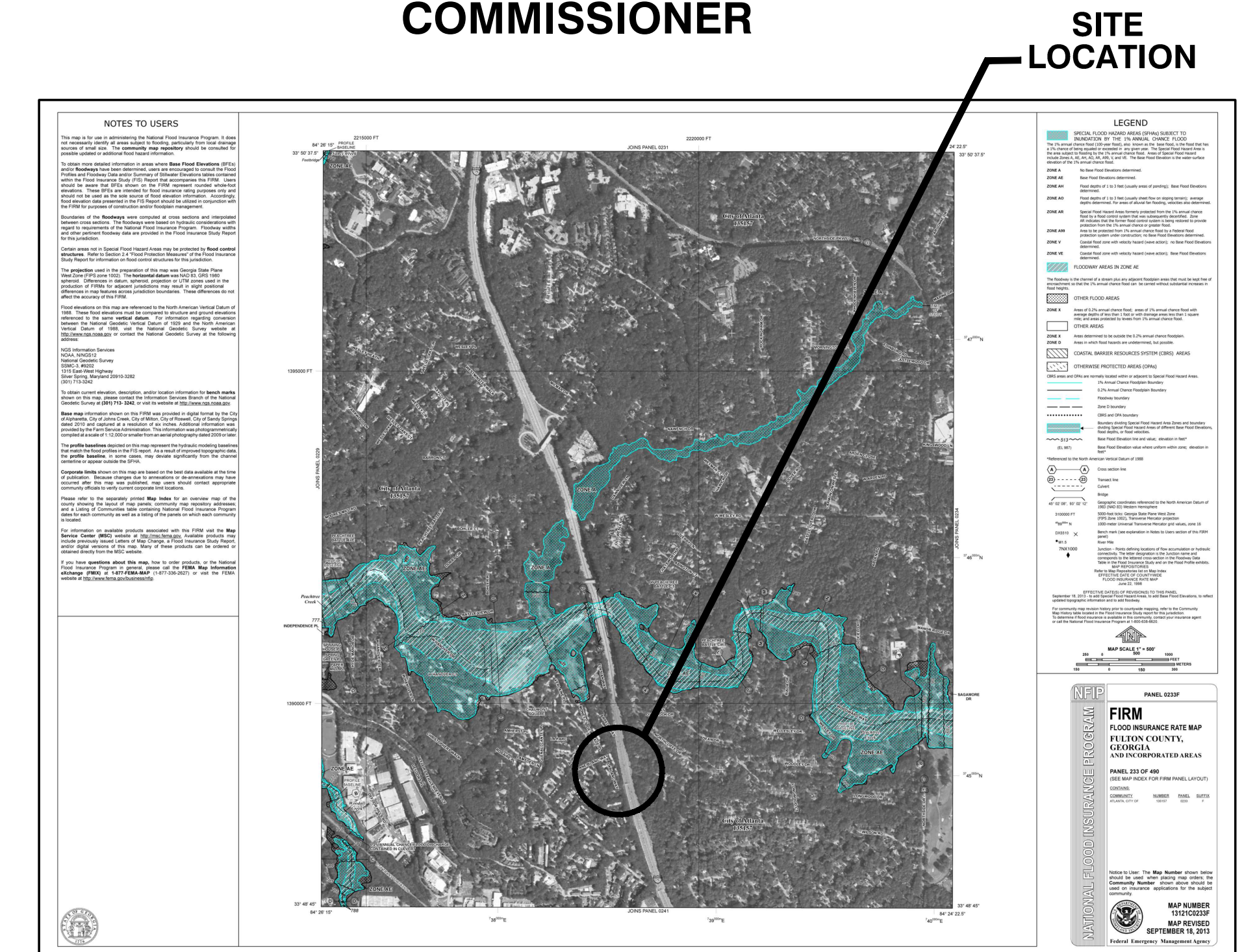
CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES

**CITY OF ATLANTA
KEISHA LANCE BOTTOMS
MAYOR**

**DEPARTMENT OF WATERSHED MANAGEMENT
KISHIA L. POWELL
COMMISSIONER**



LOCATION MAP



PROJECT DESCRIPTION

THE CITY OF ATLANTA CURRENTLY HAS AN EXISTING 12 TO 15 INCH SANITARY SEWER THAT TRANSVERSES WEST THROUGH TENNYSON DRIVE AND CROSSES INTERSTATE I-75 AND TIES INTO CITY OF ATLANTA EXISTING 96" PEACHTREE CREEK TRUNKLINE. DUE TO INCREASE IN CAPACITY NEEDS THIS EXISTING LINE CURRENTLY NEEDS TO BE UPSIZE TO A 24 INCH SEWER LINE. PHASE ONE OF THIS PROJECT WILL CONSIST OF THE INSTALLATION OF 781 L.F. OF 24' DUCTILE IRON PIPE WITH 200 LF BEING INSTALLED UNDER I-75, 4 MANHOLES, ABANDONING 199 LF OF EXISTING PIPE IN PLACE, COMPLETELY REMOVING 202 FEET OF EXISTING PIPE, AND INSTALLING A 16' TEMPORARY ACCESS ROAD FOR SITE ACCESS ON THE CREEK STREAM BANK BY THE CROSS CREEK CONDOMINIUMS. THE TOTAL AMOUNT OF DISTURBED AREA IS .51 ACRES, AND THE TOTAL AMOUNT OF BUFFER DISTURBANCE IS .17 ACRES. THE PROJECT WILL TAKE APPROXIMATELY 3 MONTHS TO COMPLETE.

PROPOSED CONSTRUCTION PLANS FOR PHASE 1

COLLIER RD SANITARY SEWER IMPROVEMENTS SEWER GROUP 4 FEBRUARY 14, 2017

- 1) WATERS OF THE STATE EXISTS ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- 2) NO WETLANDS EXIST ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- 3) TOTAL DISTURBED AREA IS APPROXIMATELY 22,497.73 S.F./;.51 ACRES.
TOTAL BUFFER DISTURBANCE IS 7,567.20 S.F./;.17 ACRES
TOTAL LENGTH OF DISTURBED BUFFER IS 400 L.F.

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.

THIS PROJECT IS EXEMPT FROM NPDES PERMITTING REQUIREMENTS, DISTURBED AREA IS LESS THAN 1 ACRE.

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.



REGINALD CRAYTON
LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER 0000068648
ISSUED: 06/02/2016 EXPIRES: 06/02/2019

EROSION NOTE:

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

SHEET INDEX

1. COVER SHEET
2. GENERAL NOTES
3. EXISTING CONDITIONS
4. PROPOSED SANITARY PLAN & PROFILE
5. EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN
6. EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES
7. STANDARD DETAILS-1
8. STANDARD DETAILS-2

FIRM FLOOD INSURANCE RATE MAP

NOTE:
STATE WATERS ARE LOCATED ON OR WITHIN 200 FT OF THIS SITE.

F.I.R.M. NOTE
AS SHOWN ON FLOOD INSURANCE RATE MAP OF FULTON COUNTY, GEORGIA COMMUNITY PANEL NUMBER: 13121G0253F
EFFECTIVE DATE SEPTEMBER 18, 2013
THIS PROPERTY IS LOCATED IN ZONE AE (BASE FLOOD ELEVATIONS DETERMINED)

24 HOUR CONTACT
REGINALD CRAYTON
CALL CENTER
(404) 798-5612



REVISIONS

DATE	DESCRIPTION

ENGINEER OF RECORD

GENERAL NOTES:

- 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.
- 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.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE LATEST CITY OF ATLANTA STANDARDS.
- 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.
- ALL REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM-C76 CLASS III OR AS OTHERWISE NOTED ON THE CONTRACT DRAWINGS.
- 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.
- 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.
- THE CONTRACTOR SHALL COORDINATE WORK WITH CITY OF ATLANTA. CONTRACTOR SHALL PROVIDE SUFFICIENT ADVANCE NOTICES OF PROPOSED WORK SCHEDULE.
- 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.
- CONTRACTOR SHALL INSTALL 6 FOOT HIGH TEMPORARY CHAIN LINK FENCE 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.
- CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION.
- 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.
- 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.
- 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.
- INSTALLATION OF NEW STORM AND SANITARY SEWERS, INCLUDING TRENCH EXCAVATION, SHOULD BE FINISHED BY CLOSE OF DAY, OR ADEQUATELY COVERED FOR SAFETY.
- 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.
- 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.
- CONTRACTOR SHALL ENTER UPON PRIVATE PROPERTY ONLY AFTER OBTAINING RIGHT OF ENTRY LETTER FROM THE CITY OF ATLANTA AND NOTIFYING HOMEOWNER IN ADVANCE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING ALL UTILITIES WITHIN THE EXCAVATION LIMITS DURING CONSTRUCTION.
- 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.
- 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.
- 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.
- 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.
- 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.

UTILITY COMPANIES

- 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

ABBREVIATIONS

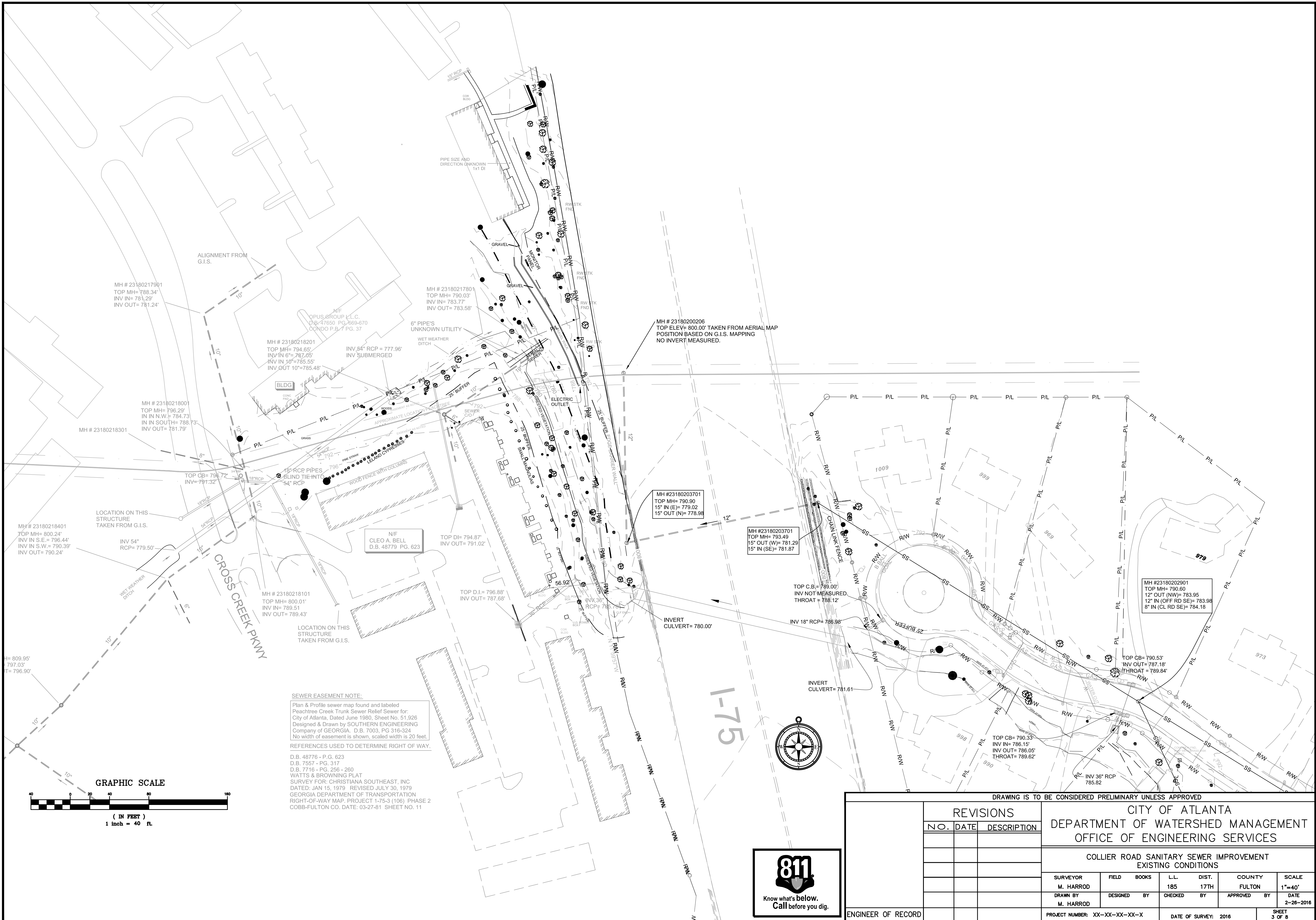
- ABAND ABANDONED
- APPROX APPROXIMATE
- BRK BRICK
- CB CATCH BASIN
- CC CENTER TO CENTER
- CIRCUM CIRCUMFERENCE
- CL CLASS
- CO CLEAN OUT
- CCTV CLOSED CIRCUIT TELEVISION
- COMB COMBINED
- CONC CONCRETE
- CP CLAY PIPE
- C CONDUIT
- CMP CORRUGATED METAL PIPE
- CULV CULVERT
- DIAG DIAGONAL
- DIA DIAMETER
- DIM DIMENSION
- DWG DRAWING
- DW 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 REINFORCED CONCRETE PIPE
- 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

LEGEND

DESCRIPTION	EXISTING	PROPOSED
RIGHT OF WAY	--- R/W ---	
LAND LOT LINE	-----	
PROPERTY LINE	----- PL -----	
CENTER LINE/BASE LINE	----- C -----	----- C -----
EASEMENT (DRAINAGE, SANITARY)	[Hatched Pattern]	[Hatched Pattern]
EASEMENT (TEMPORARY)	[Diagonal Pattern]	[Diagonal Pattern]
DEMOLITION AREA	[Cross-hatched Pattern]	[Cross-hatched Pattern]
FENCE	---x---x---x---	
EDGE OF PAVEMENT	-----	
CENTER LINE OF SWALE/CREEK	-----	
CONTOUR	----- 900 -----	----- 900 -----
UNDERGROUND POWER	----- UE -----	
OVERHEAD POWER	----- OHE -----	
UNDERGROUND TELEPHONE	----- UT -----	
UNDERGROUND TV CABLE	----- CTV -----	
GAS LINE	----- G -----	
WATER LINE	----- W -----	
SANITARY SEWER LINE	----- ST -----	----- ST -----
STORM DRAIN LINE	----- ST -----	----- ST -----
SILT FENCE	---x---x---x---	
CABLE TV BOX	[C] [C]	
GUY POLE	[G]	
UTILITY POLE (T=TELEPHONE, P=POWER, L=LIGHT)	[U]	
UNDERGROUND TELEPHONE BOX	[T]	
TELEPHONE MANHOLE	[M]	
METER BOX (W=WATER, G=GAS)	[W] [G]	
CATCH BASIN	[C]	
DROP INLET	[D]	
HEADWALL	[H]	
CITY OF ATLANTA CONTROL POINT (DELTA POINT)	[A]	
PROPERTY MARKER (IPF=IRON PIN FOUND)	[O]	
RETAINING WALL	[R]	
CLEANOUT	[C]	
SIDEWALK	[S]	
CURB AND GUTTER	[C]	
SIGNIFICANT TREES	[T]	
BORING LOCATIONS	[B-1]	
WATER VALVE	[W]	
WATER METER	[WM]	
FIRE HYDRANT	[F]	
SANITARY SEWER MANHOLE	[S]	
STORM DRAIN MANHOLE	[SD]	
LIMITS OF CONSTRUCTION	-----	

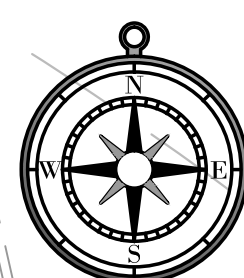
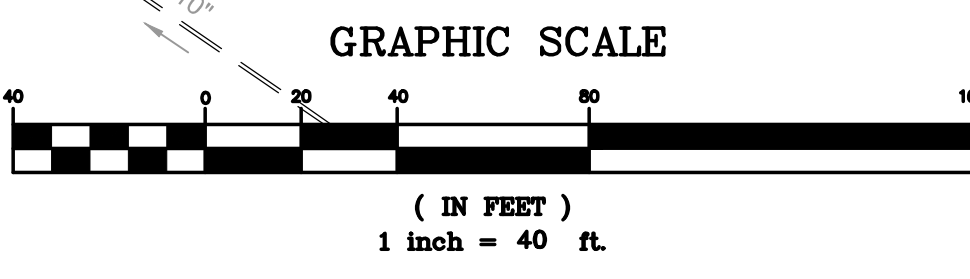


DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
REVISIONS			CITY OF ATLANTA						
NO.	DATE	DESCRIPTION	DEPARTMENT OF WATERSHED MANAGEMENT						
			OFFICE OF ENGINEERING SERVICES						
PHASE 1									
COLLIER RD SANITARY SEWER IMPROVEMENTS									
GENERAL NOTES									
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE				
M. HARROD	185	17TH	FULTON	NO SCALE					
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE					
R. CRAYTON, P.E.	S. AIYEJORUN, P.E.	N. JOHNSON, P.E.	10-01-2016						
ENGINEER OF RECORD	PROJECT NUMBER: XX-XX-XX-XX-X	DATE OF SURVEY: 2016	SHEET 2 OF 8						

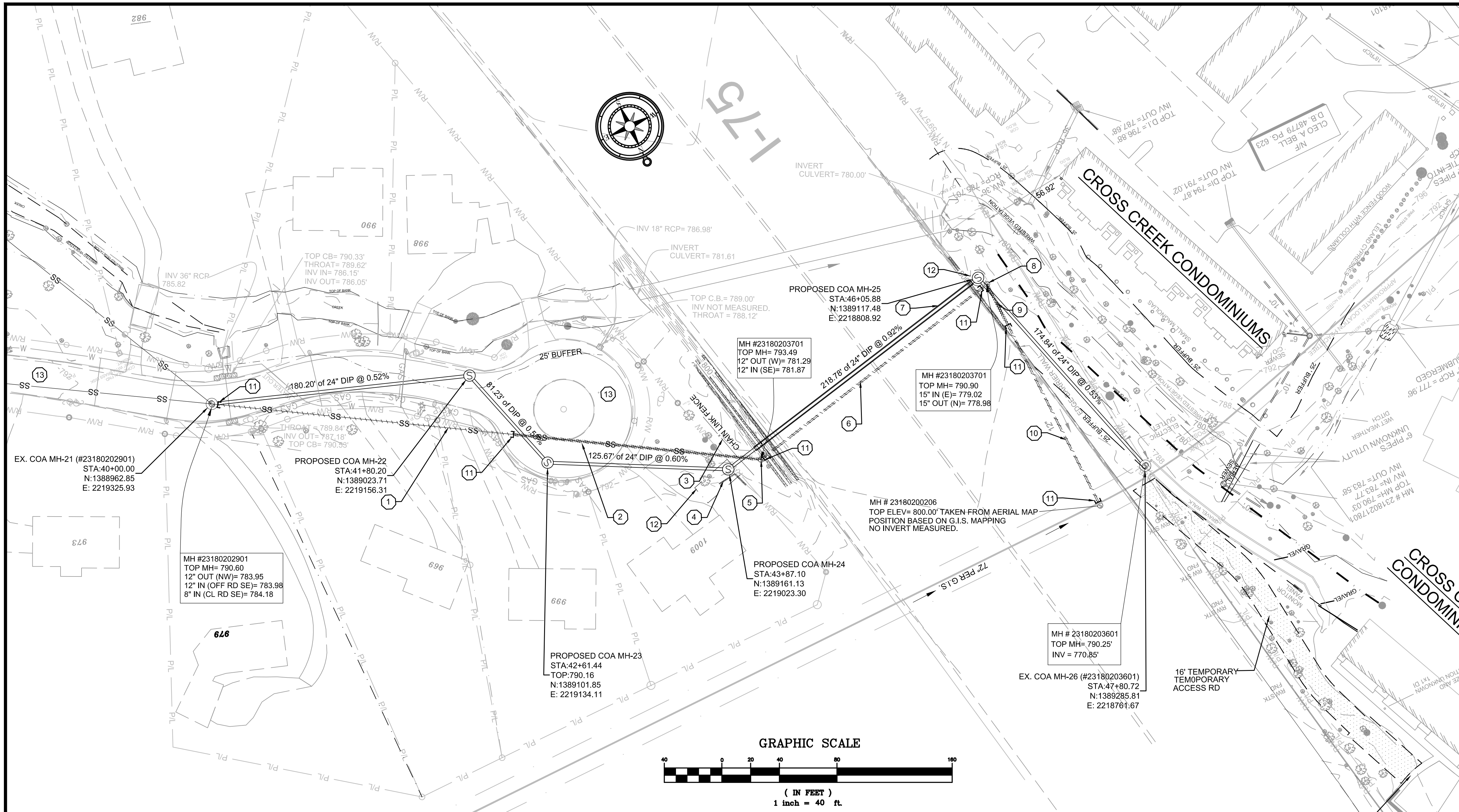


SEWER EASEMENT NOTE:
 Plan & Profile sewer map found and labeled Peachtree Creek Trunk Sewer Relief Sewer for: City of Atlanta, Dated June 1980, Sheet No. 51,926 Designed & Drawn by SOUTHERN ENGINEERING COMPANY OF GEORGIA, D.B. 7003, PG 316-324. No width of easement is shown, scaled width is 20 feet.

REFERENCES USED TO DETERMINE RIGHT OF WAY:
 D.B. 48776 - P.G. 623
 D.B. 7557 - PG. 317
 D.B. 7716 - PG. 256 - 260
 WATTS & BROWNING PLAT
 SURVEY FOR: CHRISTIANA SOUTHEAST, INC
 DATED: JAN 15, 1979 REVISED JULY 30, 1979
 GEORGIA DEPARTMENT OF TRANSPORTATION
 RIGHT-OF-WAY MAP, PROJECT 1-75-3 (106) PHASE 2
 COBB-FULTON CO. DATE: 03-27-81 SHEET NO. 11

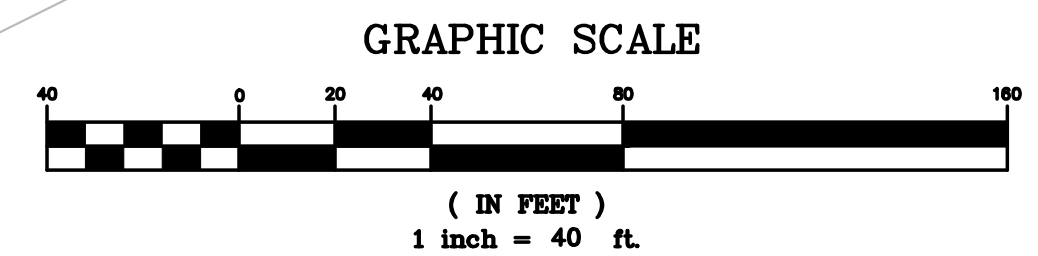


DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED						
CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES						
COLLIER ROAD SANITARY SEWER IMPROVEMENT EXISTING CONDITIONS						
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE	
M. HARROD	185	17TH	FULTON		1"=40'	
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE		
M. HARROD				2-26-2016		
ENGINEER OF RECORD		PROJECT NUMBER: XX-XX-XX-XX-X		DATE OF SURVEY: 2016	SHEET 3 OF 8	

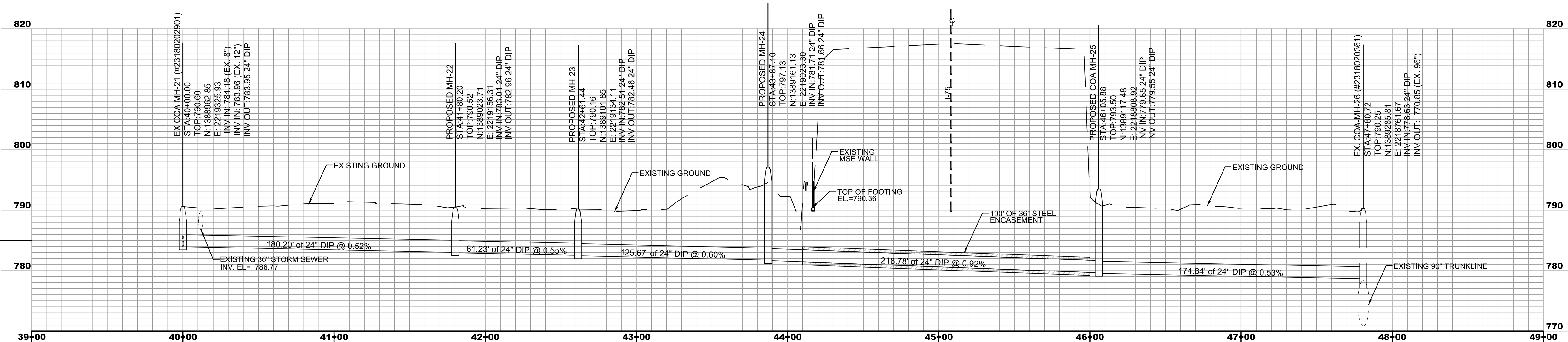


- KEYED NOTES:**
- 211 L.F. OF EXISTING PIPE TO BE ABANDONED IN PLACE AND GROUT FILLED. MASONRY BULKHEAD PIPE ENDS.
 - 172' LF OF EXISTING 12" PIPE TO BE COMPLETELY REMOVED.
 - EXISTING CHAINLINK FENCE TO BE COMPLETELY REMOVED FOR CONSTRUCTION OF SEWER. CONTRACTOR TO REPLACE AFTER CONSTRUCTION.
 - EXISTING WALL TO BE REMOVED DURING CONSTRUCTION. CONTRACTOR TO REPLACE AFTER CONSTRUCTION IS COMPLETED.
 - EXISTING MANHOLE TO BE ABANDONED IN PLACE AND GROUT FILLED.
 - 199 L.F. OF EXISTING 12" PIPE TO BE ABANDONED IN PLACE AND GROUT FILLED.
 - PROPOSED 36" STEEL CASING.
 - EXISTING CITY OF ATLANTA MANHOLE #23180203701 TO BE COMPLETELY REMOVED.
 - 30 L.F. OF EXISTING 12" PIPE TO BE COMPLETELY REMOVED.
 - 140 L.F. OF EXISTING 12" PIPE TO BE ABANDONED IN PLACE AND GROUT FILLED. CONTRACTOR TO CAP PIPE END WITH MASONRY BULKHEAD.
 - MASONRY BULKHEAD.
 - PROPOSED LAUNCHING/RECEIVING PITS. CONTRACTOR TO DETERMINE THE ACTUAL SIZE AND LOCATION.
 - EXISTING ROADWAY TENNYSON DRIVE, WITH A 50' RIGHT-OF-WAY.

- NOTES:**
- ALL UTILITY LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR IS TO FIELD VERIFY THE LOCATION, SIZE, ELEVATION AND MATERIAL OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
 - THE REMOVAL OF ASPHALT OR CONCRETE PAVEMENT SHALL BE ACCOMPLISHED BY NEATLY SAW CUTTING THE PAVEMENT SECTIONS.
 - ROAD MUST BE ACCESSIBLE TO LOCAL TRAFFIC AT ALL TIMES.
 - THE CONTRACTOR SHALL CONDUCT THE CONSTRUCTION OPERATIONS TO ALLOW FOR SAFE PASSAGE OF ALL MOTORIST AND PEDESTRIANS IN THE AREA.



- LEGEND:**
- PIPE TO BE ABANDON IN PLACE AND GROUT FILLED
 - PIPE TO BE COMPLETELY REMOVED



PROPOSED 24" DIP SANITARY SEWER
SCALE: H: 1"=40'
V: 1"=5'

DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED

REVISIONS		
NO.	DATE	DESCRIPTION

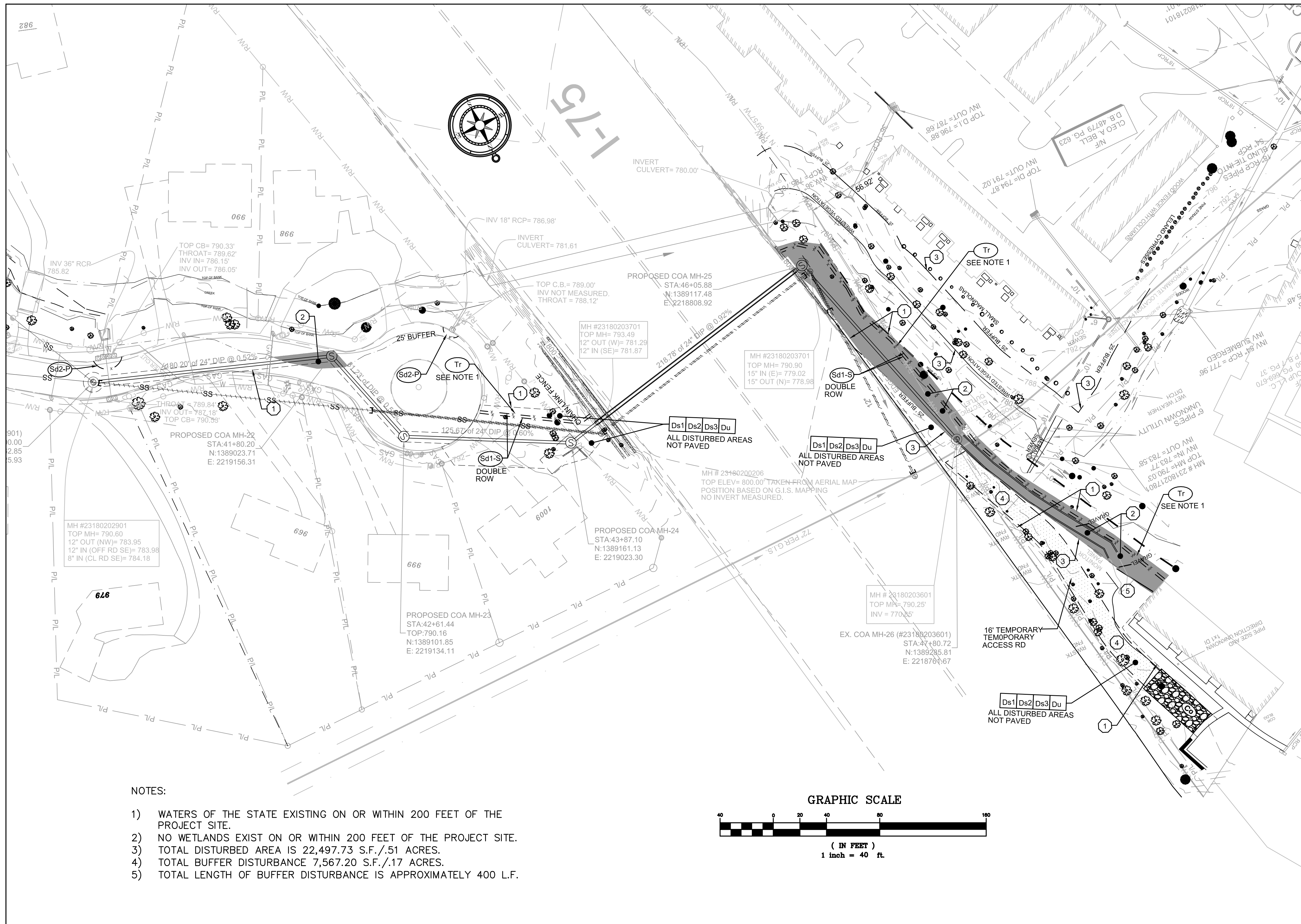
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT
OFFICE OF ENGINEERING SERVICES

PHASE 1
COLLIER ROAD, SANITARY SEWER IMPROVEMENTS
PLAN & PROFILE

SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE
M. HARROD	185	17TH	FULTON	1"=40'	
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	
R. CRAYTON, P.E.	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	10-01-2016	
PROJECT NUMBER: XX-XX-XX-XX-X		DATE OF SURVEY: 2016		SHEET 4 OF 8	



ENGINEER OF RECORD



KEYED NOTES:

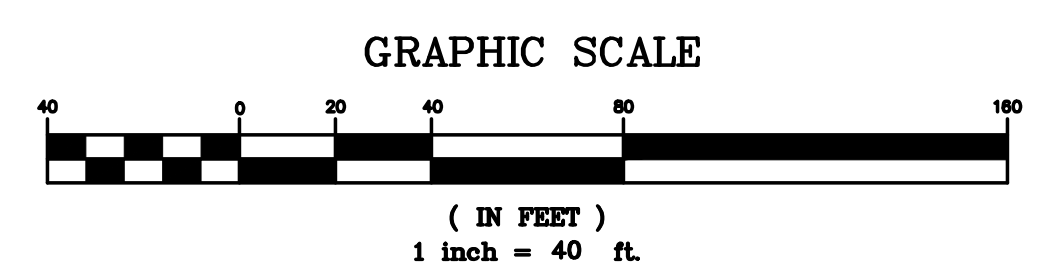
1. LIMITS OF DISTURBANCE.
2. BUFFER DISTURBANCE.
3. 25' BUFFER.
4. PROPOSED 16' TEMPORARY ACCESS RD.
5. CONTRACTOR STAGING AREA.

NOTES:

- A) CONTRACTOR TO INSTALL 4' ORANGE TREE PROTECTIVE FENCING OUTSIDE OF THE SILT FENCE. SEE TREE PROTECTION, REMOVAL, AND REPLACEMENT PLAN FOR LOCATIONS.
- B) POINT OF WRESTED VEGETATION IS THE TOP OF BANK UNLESS OTHERWISE NOTED.

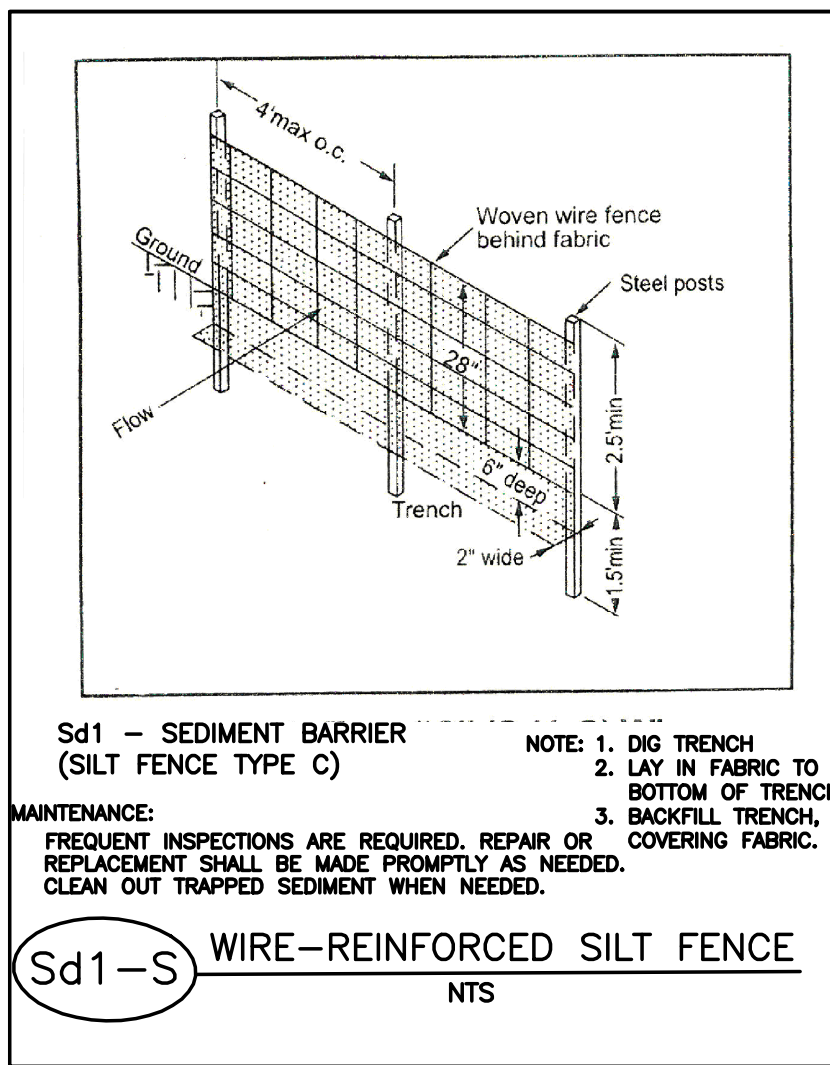
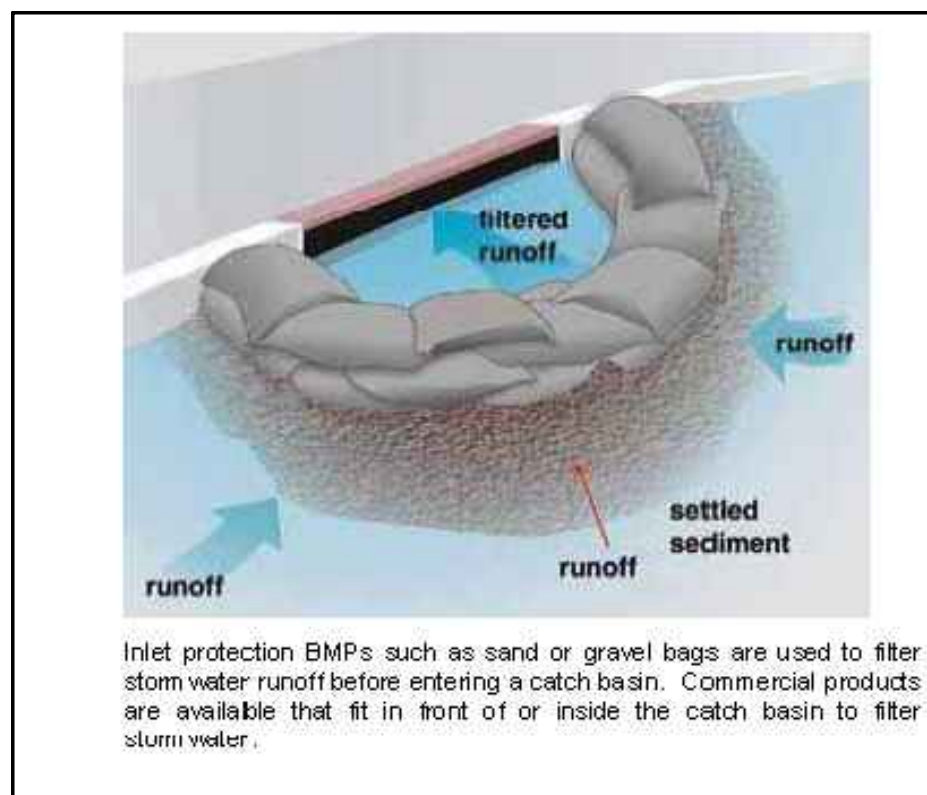
NOTES:

- 1) WATERS OF THE STATE EXISTING ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- 2) NO WETLANDS EXIST ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- 3) TOTAL DISTURBED AREA IS 22,497.73 S.F./.51 ACRES.
- 4) TOTAL BUFFER DISTURBANCE 7,567.20 S.F./.17 ACRES.
- 5) TOTAL LENGTH OF BUFFER DISTURBANCE IS APPROXIMATELY 400 L.F.

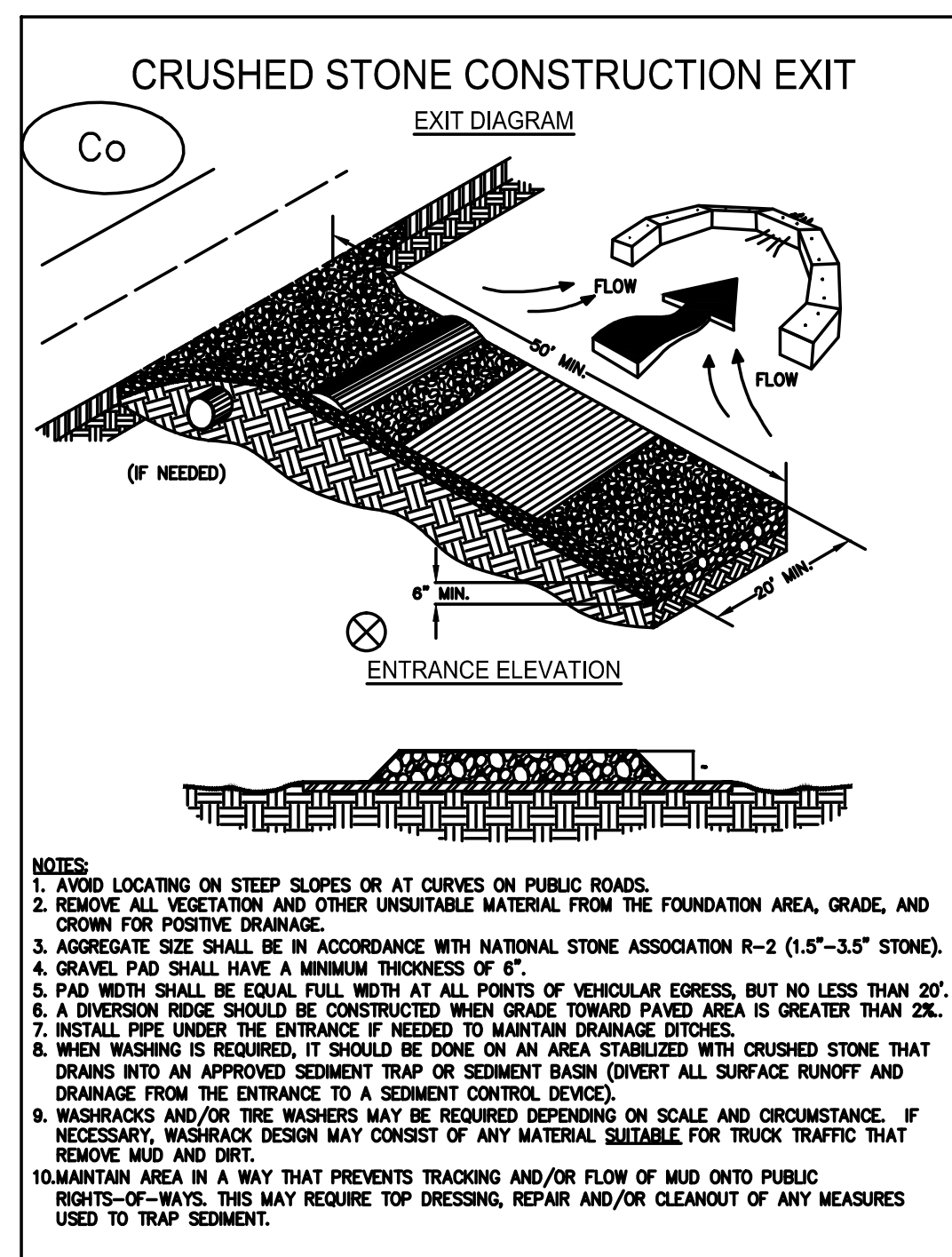


DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED						
REVISIONS			CITY OF ATLANTA			
NO.	DATE	DESCRIPTION	DEPARTMENT OF WATERSHED MANAGEMENT			
			OFFICE OF ENGINEERING SERVICES			
PHASE 1 COLLIER ROAD, SANITARY SEWER IMPROVEMENTS EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN						
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE	
M. HARROD	185	17TH	FULTON	1"=40'		
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE		
R. CRAYTON, P.E.	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	10-01-2016		
PROJECT NUMBER: XX-XX-XX-XX-X			DATE OF SURVEY: 2016		SHEET 5 OF 8	

ENGINEER OF RECORD



SOILS MAP
SOILS DELINEATION: UgE - URBAN LAND-GROVER-MOUNTAIN
CpA - CONGAREE SANDY LOAM



STRUCTURAL PRACTICES

CODE	PRACTICE	MAP SYMBOL	DESCRIPTION
Sd1	SEDIMENT BARRIER	(Indicate type)	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 sediment fence. The barriers are usually temporary and inexpensive.
Co	CONSTRUCTION EXIT	(LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
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.

VEGETATIVE MEASURES

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing a 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 TEMPORARY VEGETATION)		Ds2	Establishing temporary vegetative cover with fast growing seedlings on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on land-disturbing activities. Prevent the movement of dust from exposed soil surfaces, airborne substances that may be harmful to health.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	Establishing permanent vegetative cover such as trees, shrubs, vines, grasses, sod or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Ss	EROSION CONTROL MATTING AND BLANKETS		Ss	The installation of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.

CONSTRUCTION SCHEDULE:
EXPECTED DURATION = 5 MONTHS

DAYS	1	2	3	4	5
MOBILIZATION	█				
INSTALL AND MAINTAIN EROSION CONTROLS		█	█	█	█
SEWER & STORM PIPE INSTALLATION			█	█	█
FINAL STABILIZATION FOR DISTURBED AREAS					█

SPECIES	(FOR TEMPORARY)		FERTILIZER (LBS./1000 S.F.)	
	RATE/1000 S.F.	DATES	LIME	10-10-10
RYEGRASS, ANNUAL	1.5 - 2 LBS.	8/1-4/15	NOT REQUIRED	16
*WEeping LOVEGRASS	2-3 LBS	3/15-6/15	NOT REQUIRED	16
(FOR PERMANENT)		FERTILIZER (LBS./ACRE)		

SEE SHEET 7 FOR SPECIAL SEEDING SPECIFICATIONS FOR GREENWAY AREAS

VEGETATIVE PLAN *HYDROSEED ON ALL 2:1 (H:V) SLOPES.

NOTE: (1) TEMPORARY STABILIZATION (MULCHING ONLY) WHEN SEEDING WILL NOT HAVE A SUITABLE GROWING SEASON MAY BE ACCOMPLISHED WITH: STRAW OR HAY-2.5 TONS/ACRE
WOOD WASTE, BARK, SAWDUST-2-3" DEEP (APPROX. 6-9 TONS/ACRE)

- (2) ALL CUT & FILL SLOPES SHALL BE SURFACE ROUGHED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
- (3) ALL FILL SLOPES SHALL HAVE SILT FENCE AT TOE OF SLOPES.
- (4) MULCHING RATE FOR PERMANENT GRASSING - APPLY DRY STRAW AT THE RATE OF TWO TONS PER ACRE. APPLY DRY HAY AT THE RATE OF 2 1/2 TONS PER ACRE.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

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

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

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED IN THE 25 FOOT UNDISTURBED STREAM

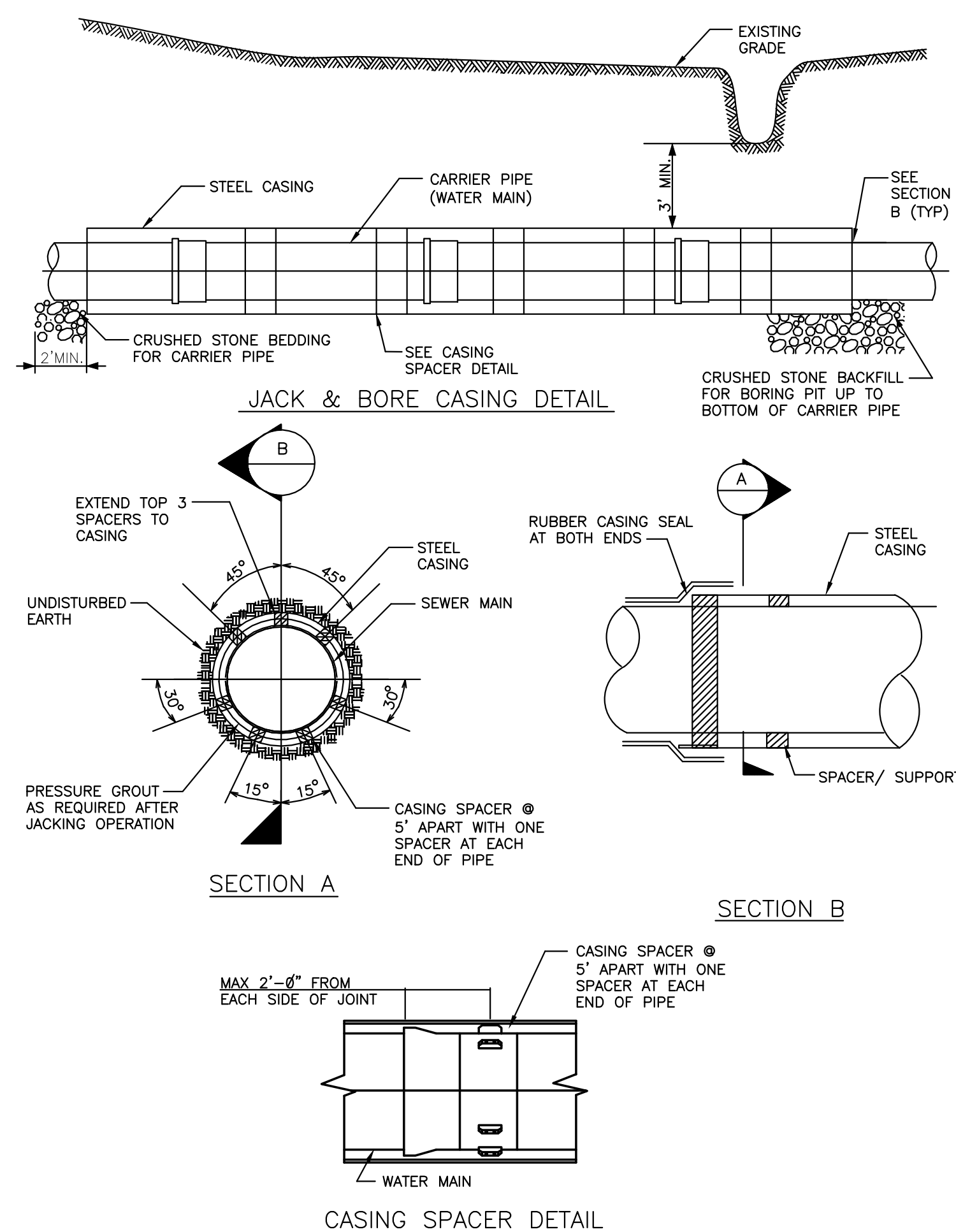
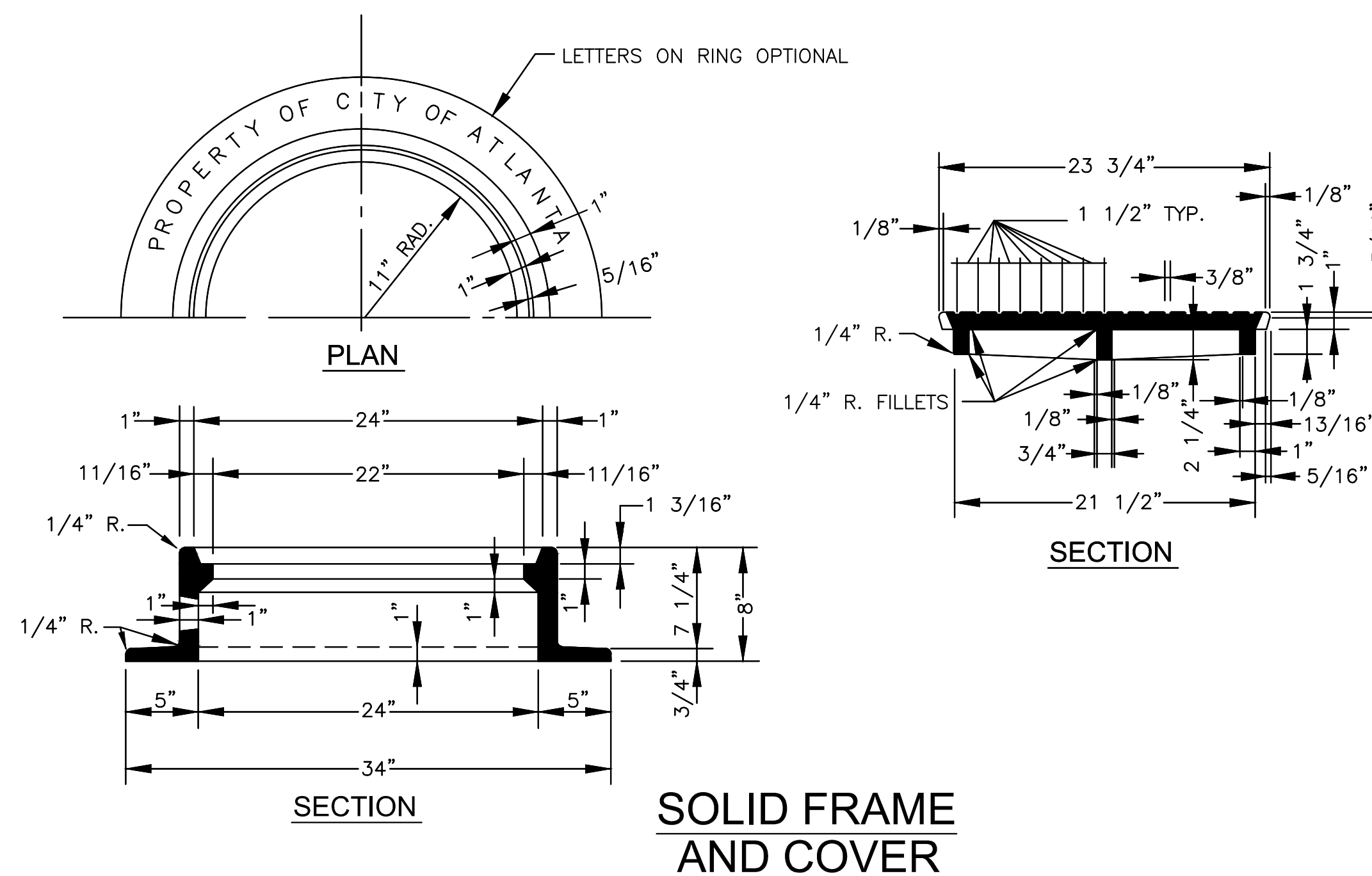
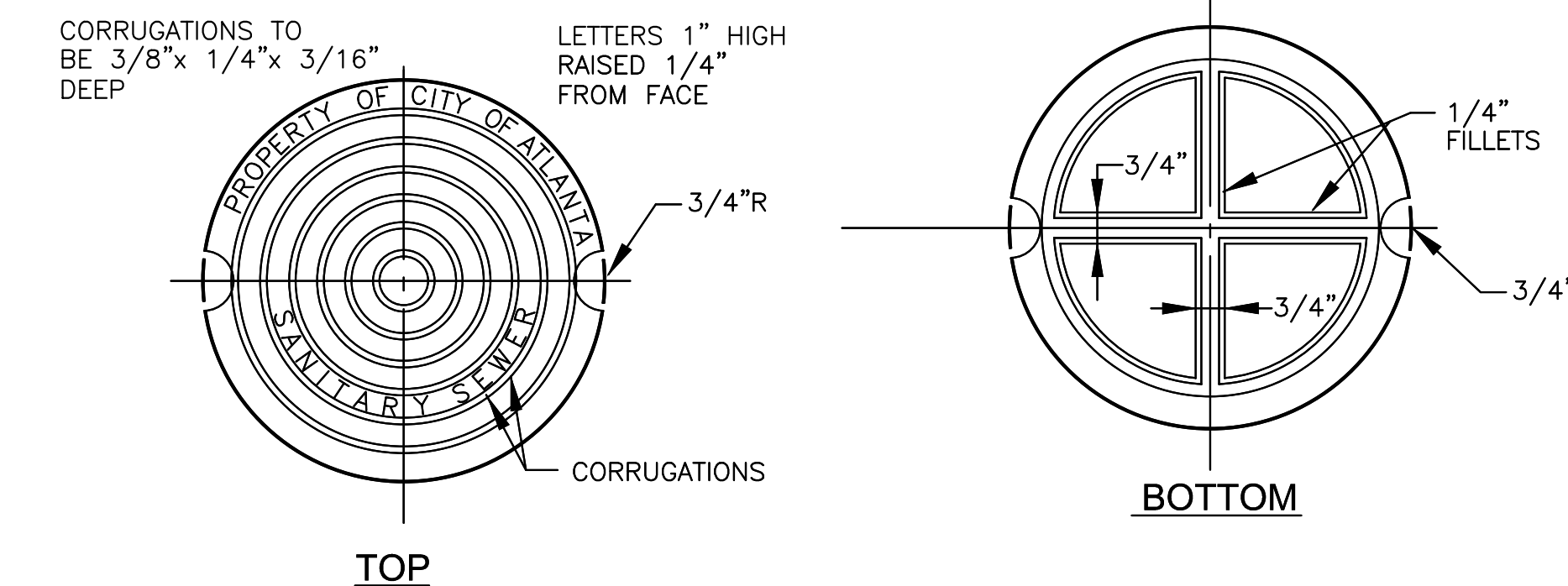
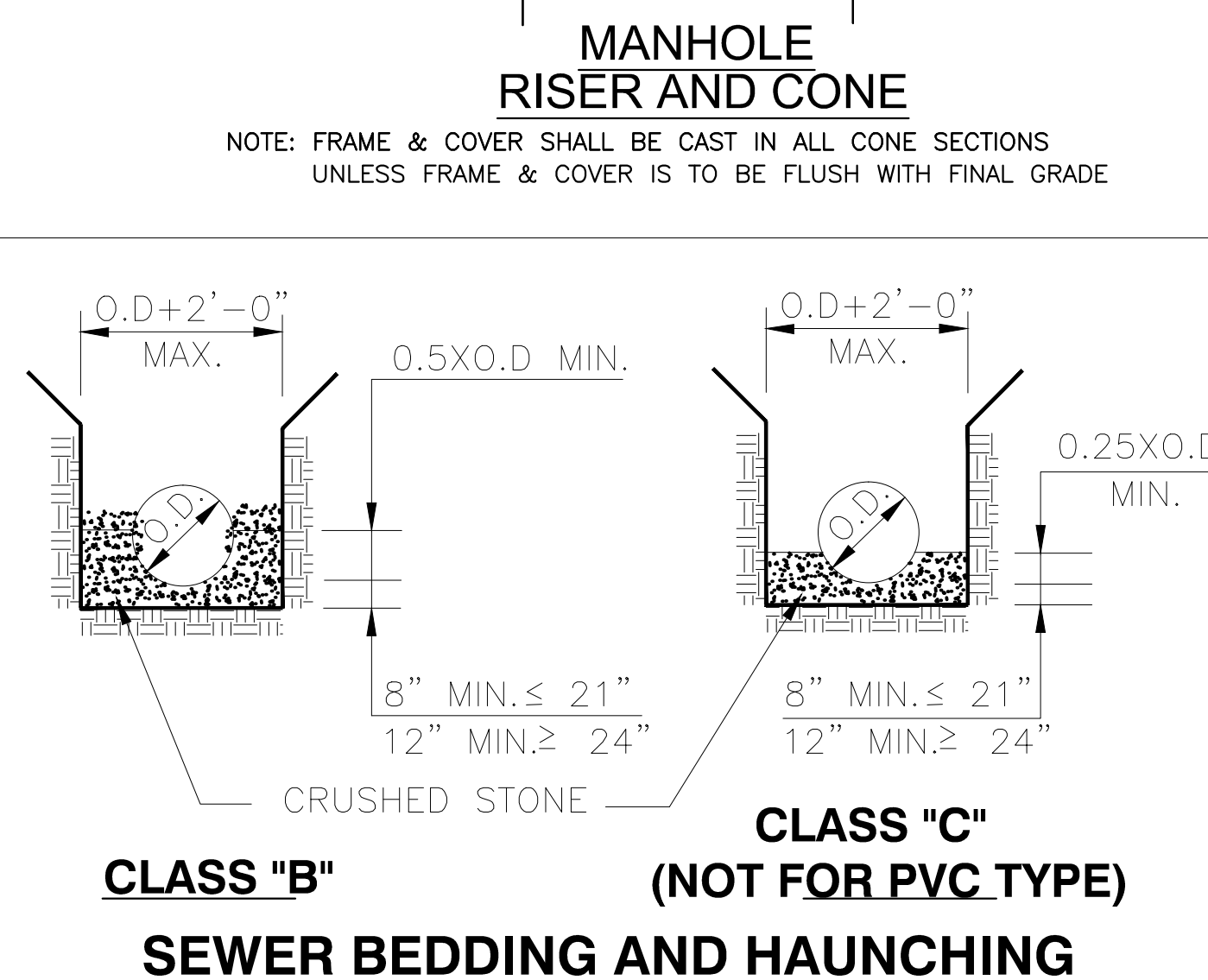
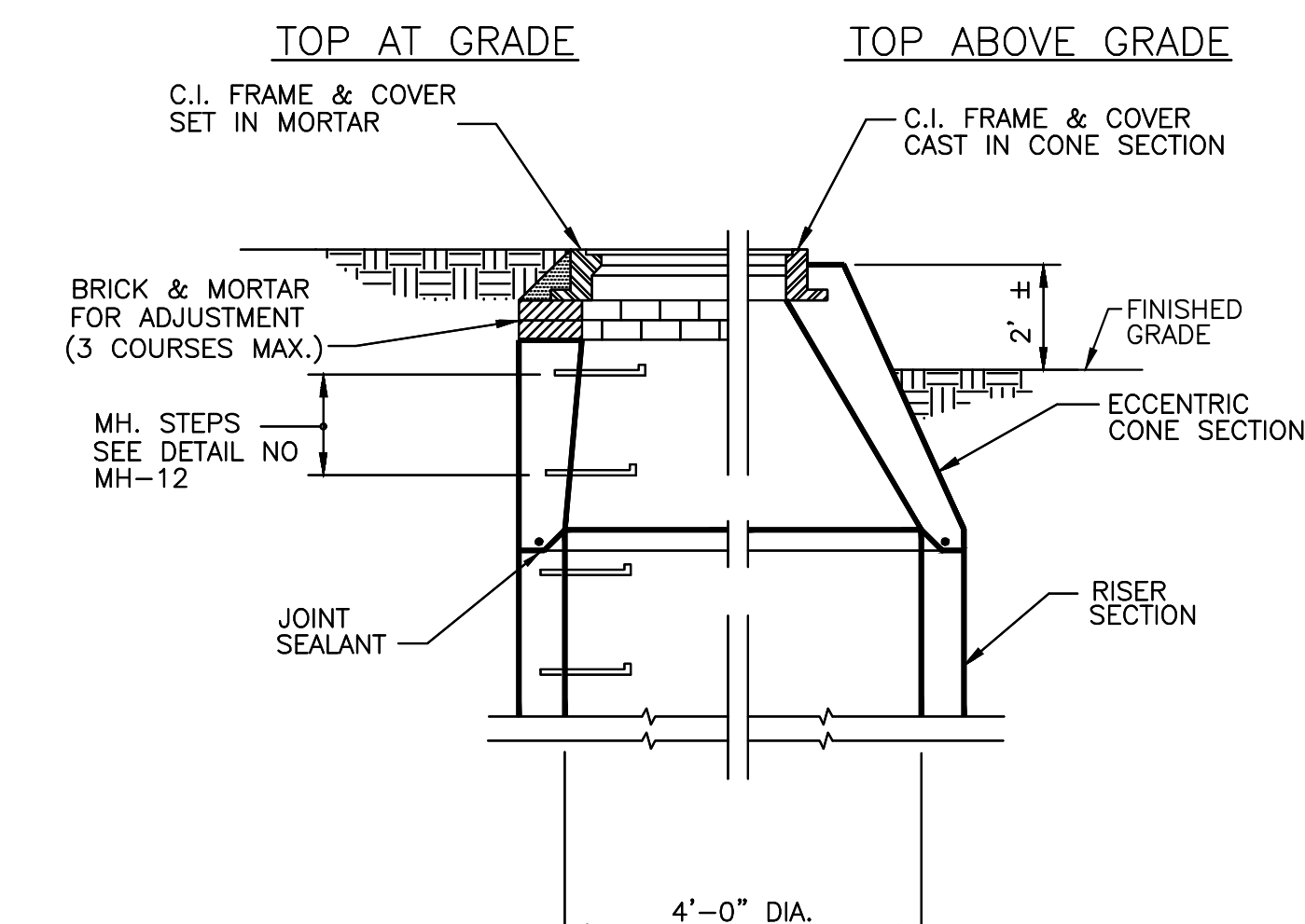
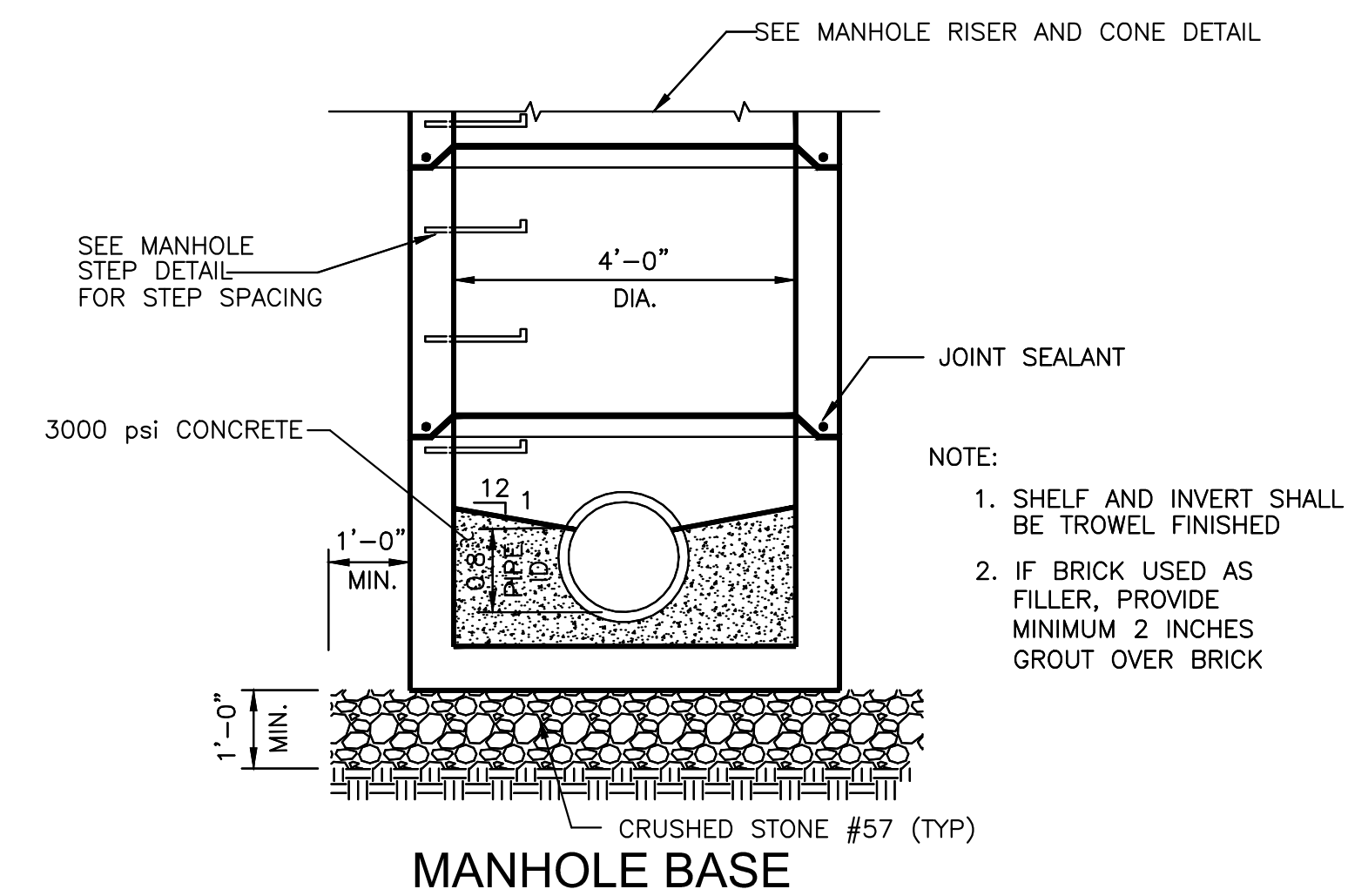
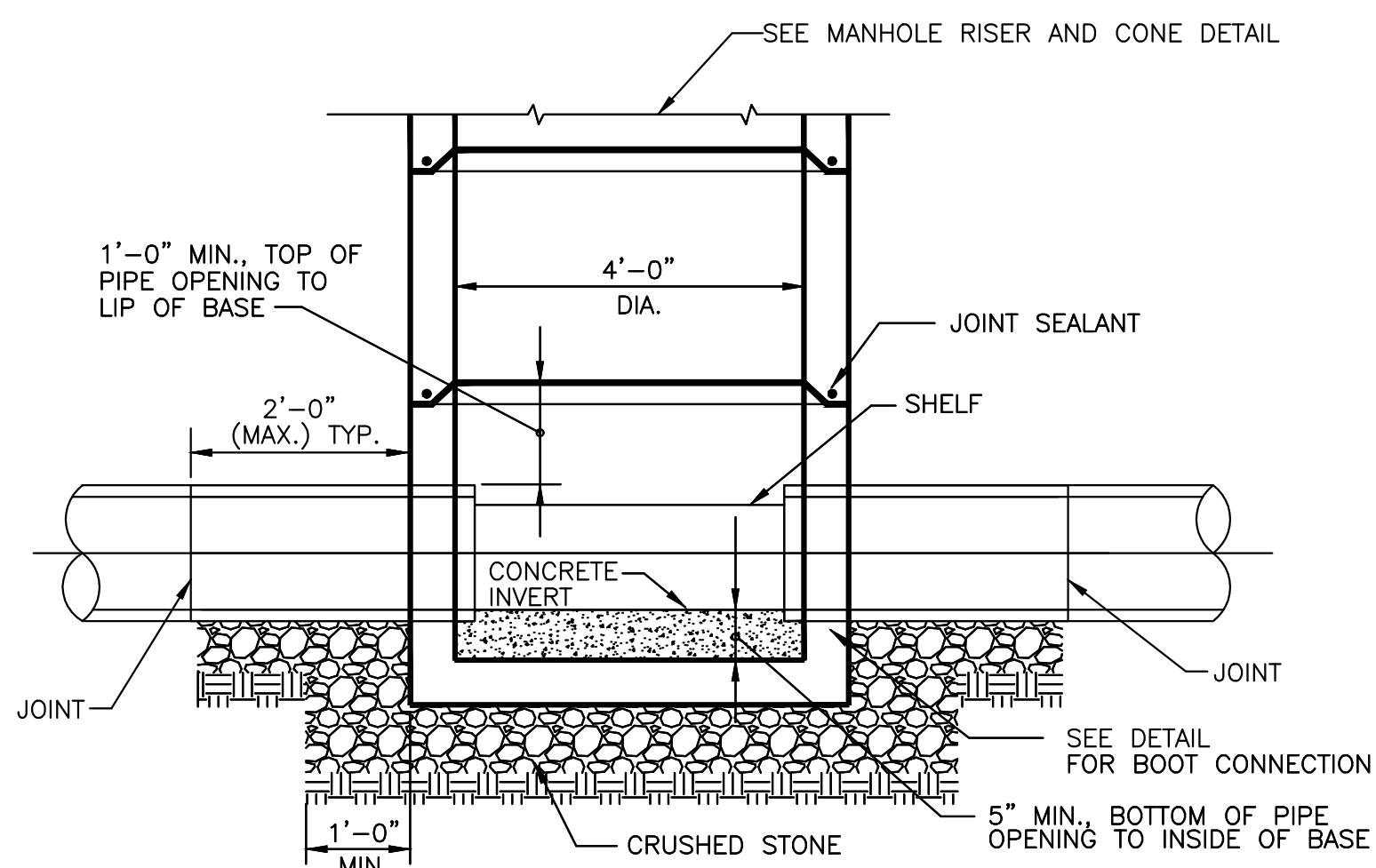
NOTES

- EROSION CONTROL MEASURES SHALL BE AS A MINIMUM IN CONFORMANCE WITH THE LATEST EDITION OF "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" BY THE GA. SOIL AND WATER CONSERVATION COMMISSION.
- ANY AND ALL SILT LEAVING THE SITE IS THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
- EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.
- SILT BARRIERS SHALL BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, LATEST EDITION.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION CONTROL DEVICES MUST BE USED AS REQUIRED.
- PRIOR TO CONSTRUCTION, CONTRACTOR WILL DETERMINE A STABILIZED CONSTRUCTION ENTRANCE. CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER THE ESTABLISHMENT OF THE CONSTRUCTION ENTRANCES/ EXITS.
- THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION.
- ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- 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.
- SEDIMENT/EROSION CONTROL DEVICES SHALL BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE SHALL BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
- ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- DISTURBED AREAS LEFT IDLE FOR TWO TO FOUR WEEKS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION (Ds2). DISTURBED AREAS LEFT IDLE FOR FOUR WEEKS OR MORE WILL BE ESTABLISHED TO PERMANENT VEGETATION (Ds3). ALL AREAS BROUGHT TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION WITHIN TWO WEEKS. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHALL BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.
- "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."
- CONTRACTOR WILL PERFORM UTILITY INSTALLATION ACTIVITIES IN SECTIONS AND OF RELATIVELY SHORT PERIOD OF TIME TO MINIMIZE DISTURBANCE OF SOILS. CONTRACTOR WILL RESTORE PAVEMENT AND OTHER EXISTING INFRASTRUCTURE IF DAMAGED DURING CONSTRUCTION.
- THERE ARE NO DISCHARGES OF STORM WATER OR SANITARY WASTE FROM THE CONSTRUCTION ACTIVITIES OF THIS PROJECT INTO IMPAIRED STREAM SEGMENTS.
- SOIL SERIES INCLUDED WITHIN PROJECT SITE: URBAN LAND-RION COMPLEX (UfE).
- "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.
- THE CITY'S DESIGNEE WILL VERIFY ADEQUATE COVER (100% COVER, 70% DENSITY) OF PERMANENT STABILIZATION(Ds3, Ds4)."
- "SILT FENCES SHALL NOT BE PLACED IN STREAM BUFFERS OR FLOOD PLAINS, UNLESS UTILIZED FOR THE CONSTRUCTION OF AN EXEMPT ACTIVITY (I.E. ROADWAY 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."
- "SUBCONTRACTORS INVOLVED WITH LAND DISTURBANCE ACTIVITIES SHALL MEET THE EDUCATION REQUIREMENTS (LEVEL 1) DESCRIBED IN O.C.G.A 12-7-19(A)(2)."

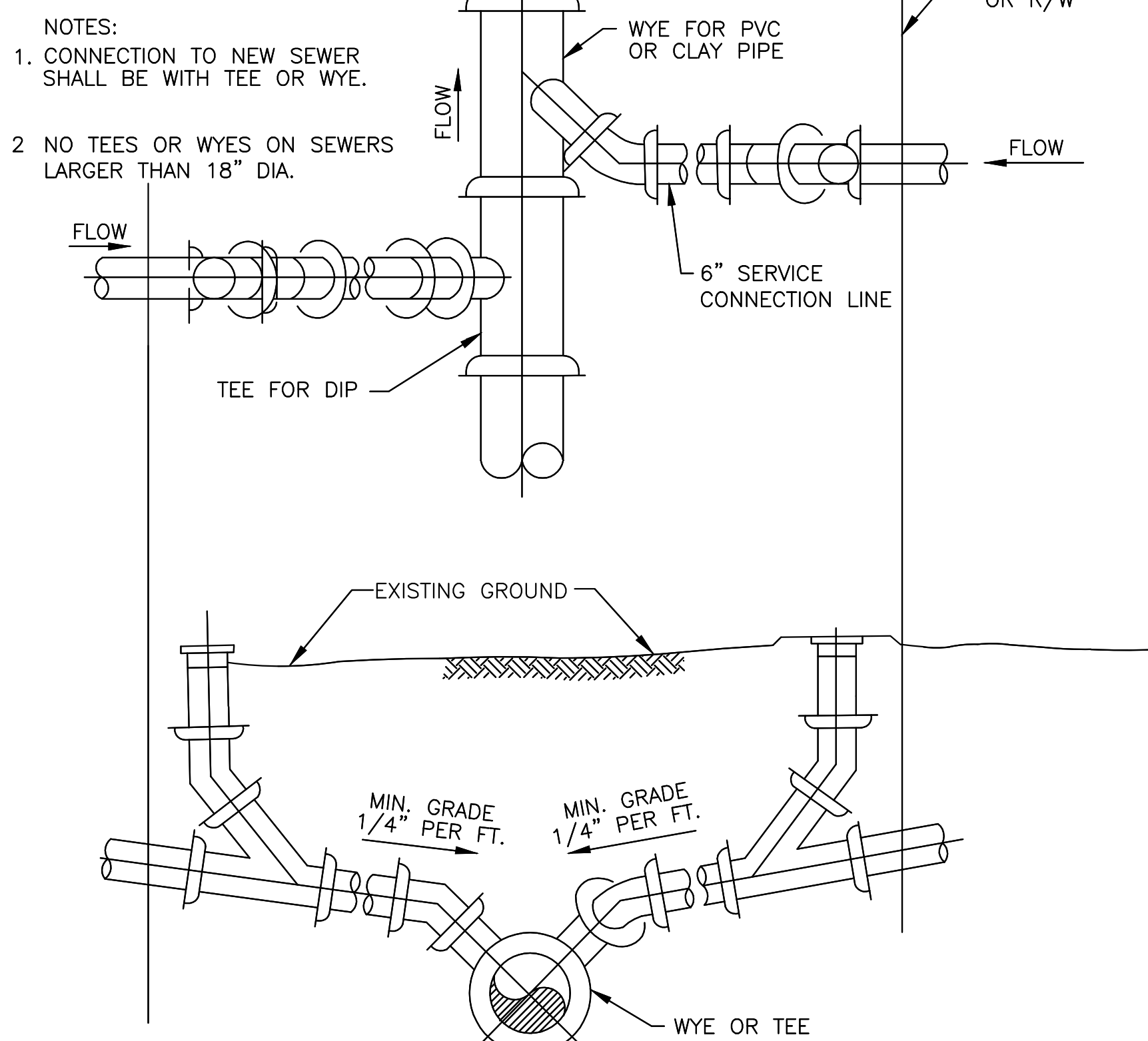


DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED

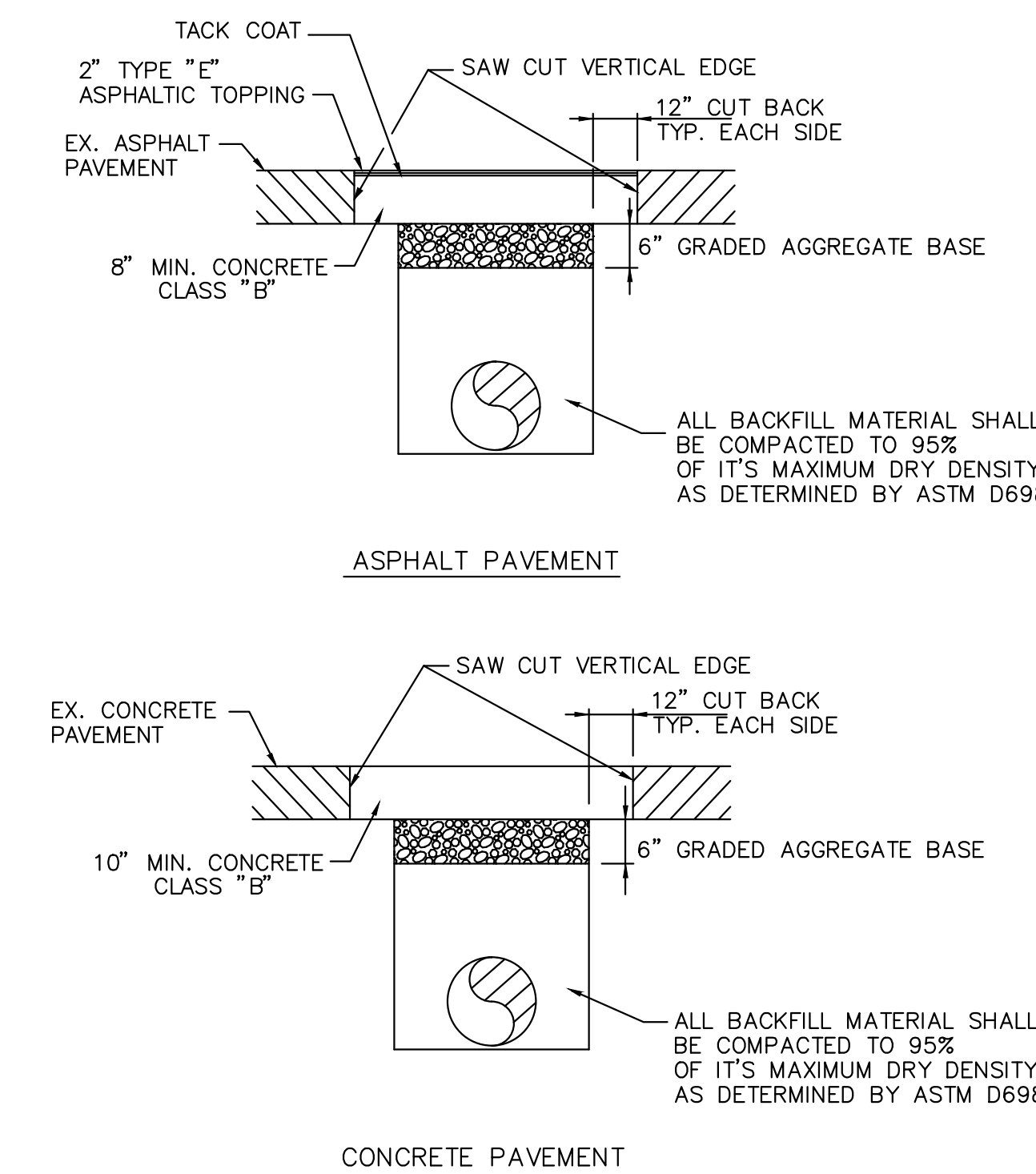
REVISIONS		CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
NO.	DATE	DESCRIPTION	PHASE 1 COLLIER RD SANITARY SEWER IMPROVEMENTS EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES				SCALE
			SURVEYOR	FIELD BOOKS	L.L. DIST.	COUNTY	NO SCALE
			M. HARROD	185	17TH	FULTON	
			DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE
			R. CRAYTON, P.E.	R. CRAYTON, P.E.	S. AIYEJORUN, P.E.	N. JOHNSON, P.E.	10-01-2016
			PROJECT NUMBER: XX-XX-XX-XX-X	DATE OF SURVEY: 2016			SHEET 6 OF 8



JACK & BORE CASING & CASING SPACER DETAIL
NTS

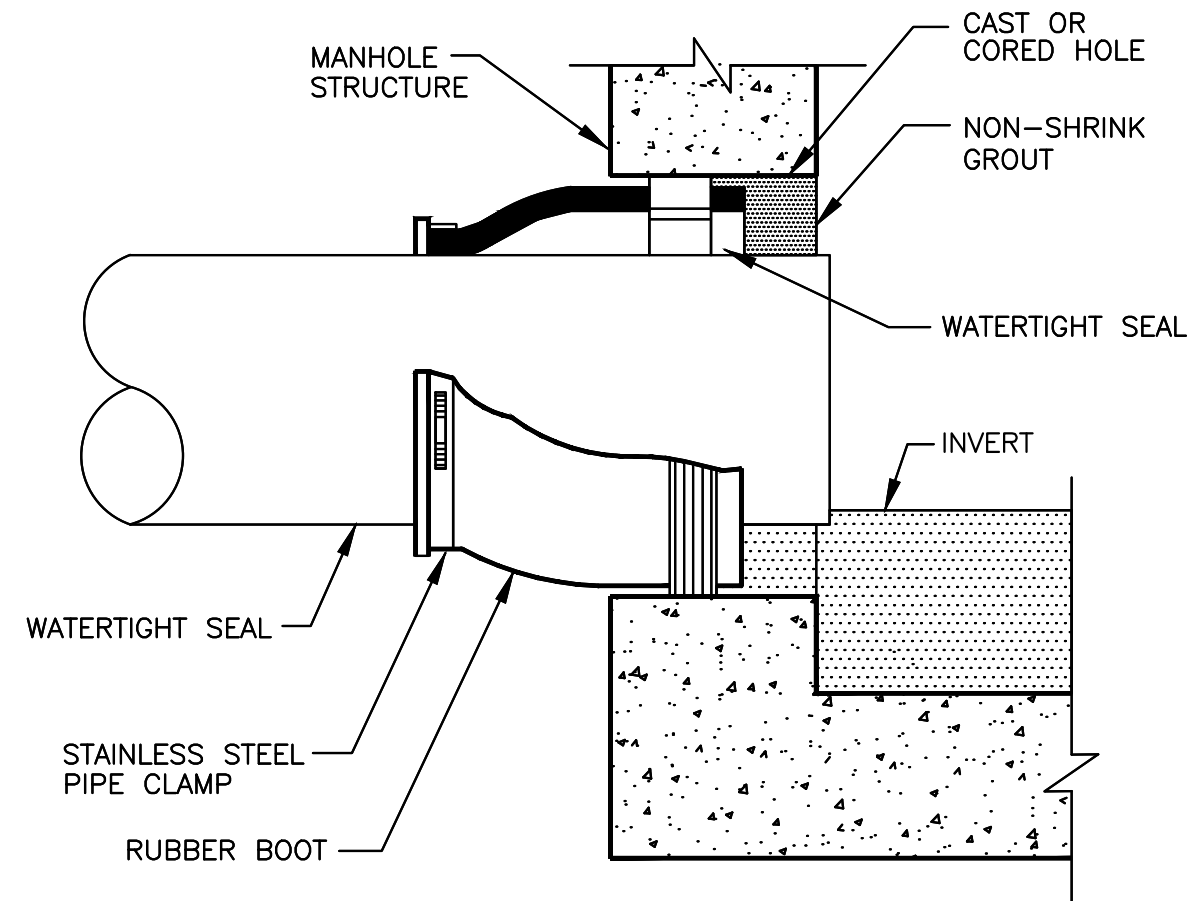


SERVICE CONNECTION ON NEW SEWERS

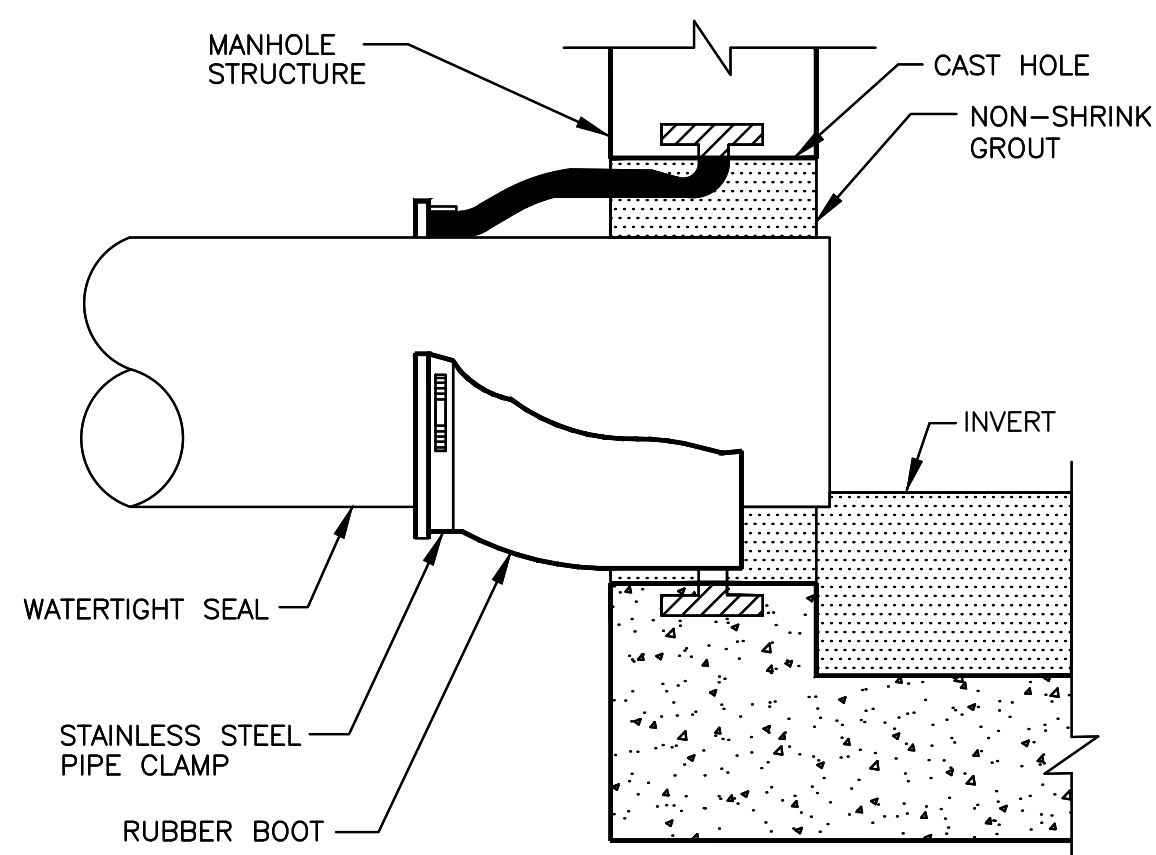


DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED						
REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES			
NO.	DATE	DESCRIPTION				
PHASE 1 COLLIER ROAD SANITARY SEWER IMPROVEMENTS STANDARD DETAILS - 1						
SURVEYOR M. HARROD	FIELD BOOKS 185	L.L. 17TH	DIST. FULTON	COUNTY FULTON	SCALE N.T.S.	
DRAWN BY R. CRAYTON, P.E.	DESIGNED BY XXXXXXXXXX	CHECKED BY XXXXXXXXXXXX	APPROVED BY XXXXXXXXXXXX	DATE 10-01-2016		
ENGINEER OF RECORD		PROJECT NUMBER: XX-XX-XX-X	DATE OF SURVEY: 2016	SHEET 7 OF 8		





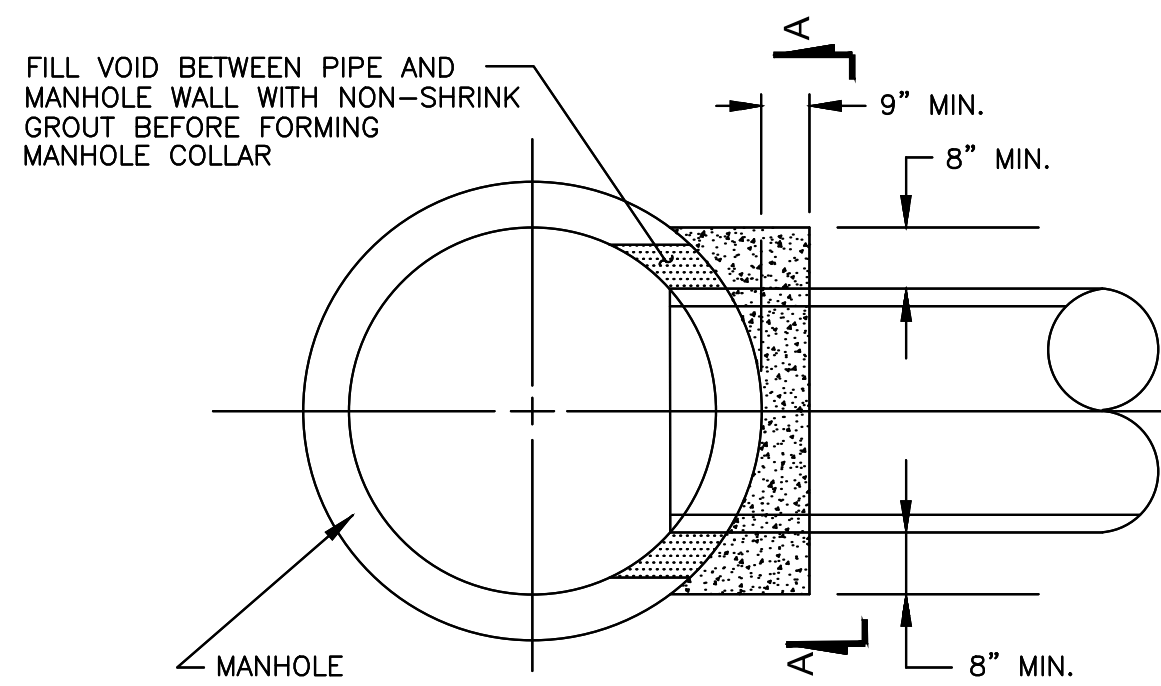
TYPE I



TYPE II

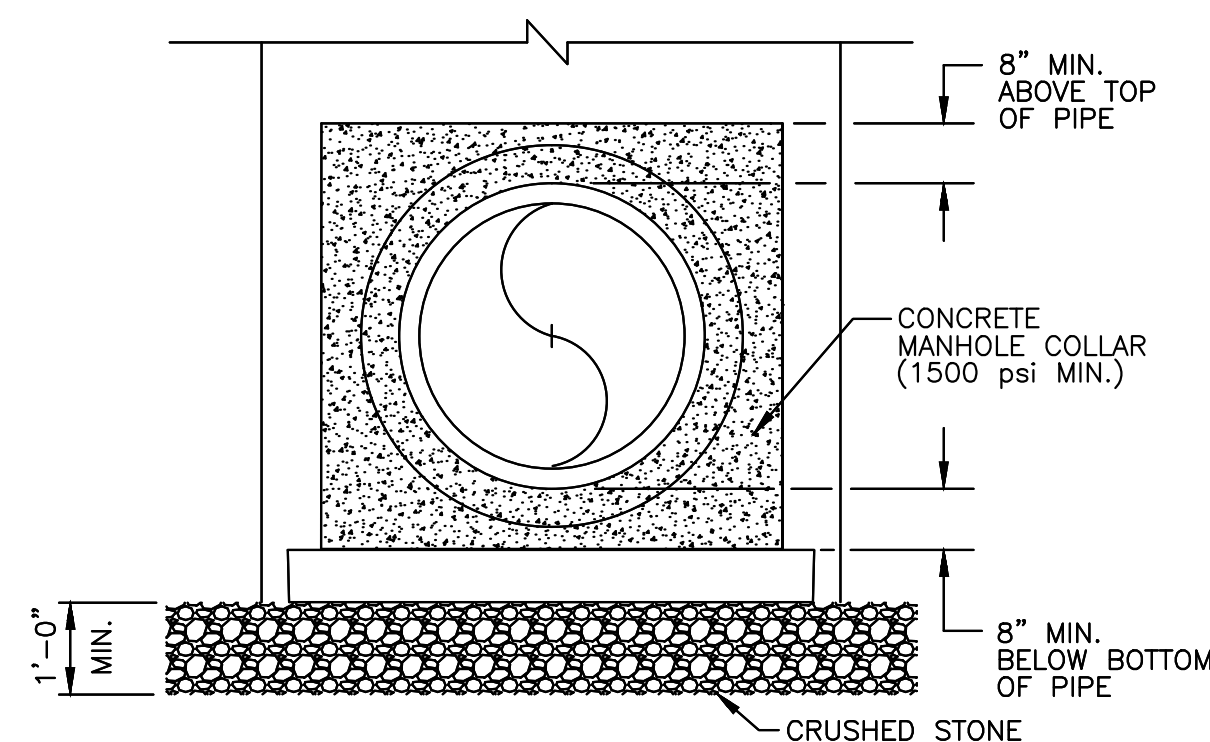
- NOTE:
1. USE BOOTS FOR PIPES ≤ 42" DIAMETER.
 2. TYPE I IS FOR MECHANICALLY ATTACHED TYPE BOOTS.
 3. TYPE II IS FOR CAST-IN BOOTS.

BOOT CONNECTION

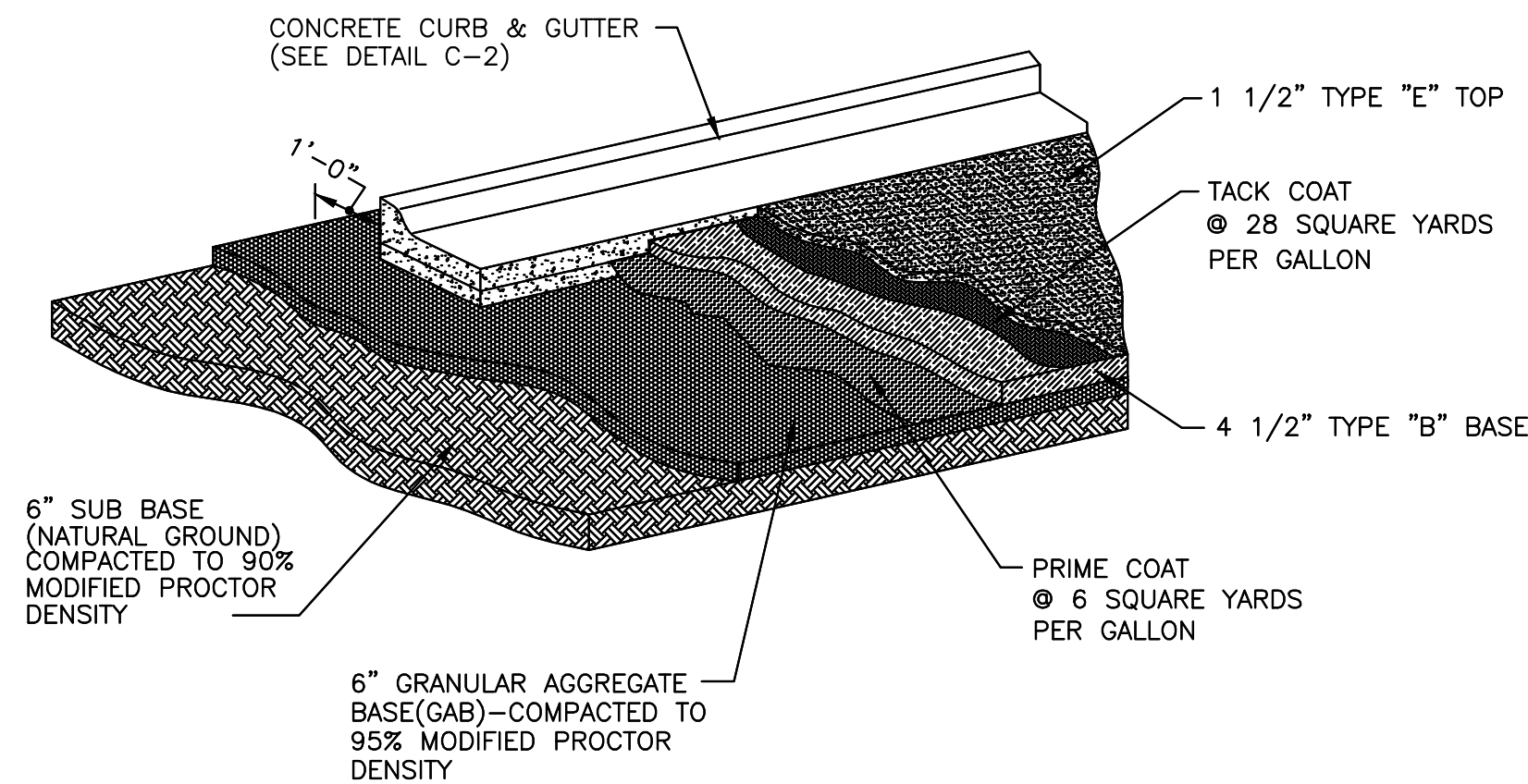


PLAN

- MANHOLE COLLARS SHALL BE USED FOR SEWER CONNECTIONS TO MANHOLES:
- 1.) IF EXIST. MANHOLE IS BRICK
 - 2.) IF SEWER > 42" DIAMETER.
 - 3.) IF MANHOLE IS CONSTRUCTED OVER EXIST. SEWER.
 - 4.) TO REPAIR TYPE II BOOT CONNECTION.



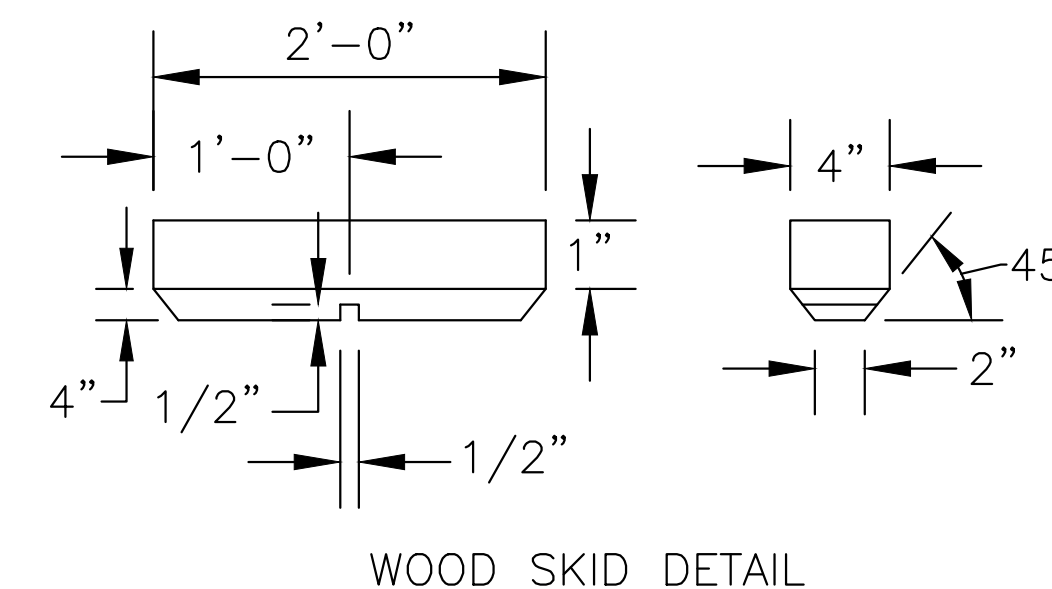
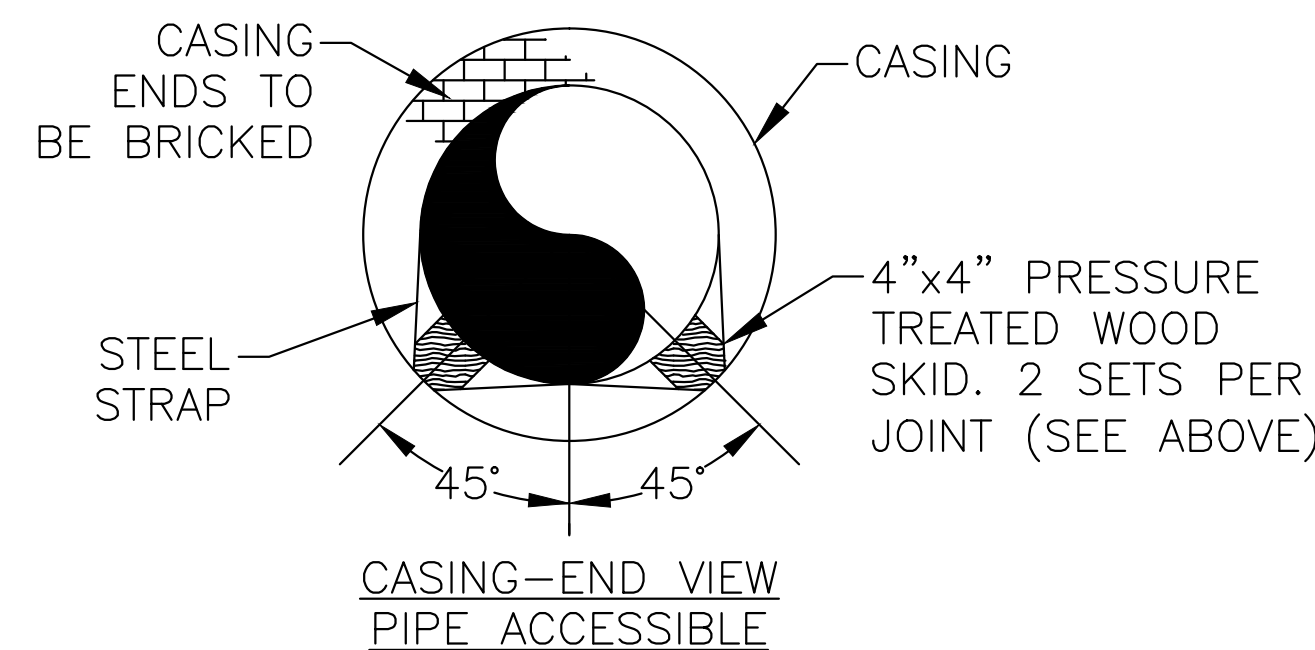
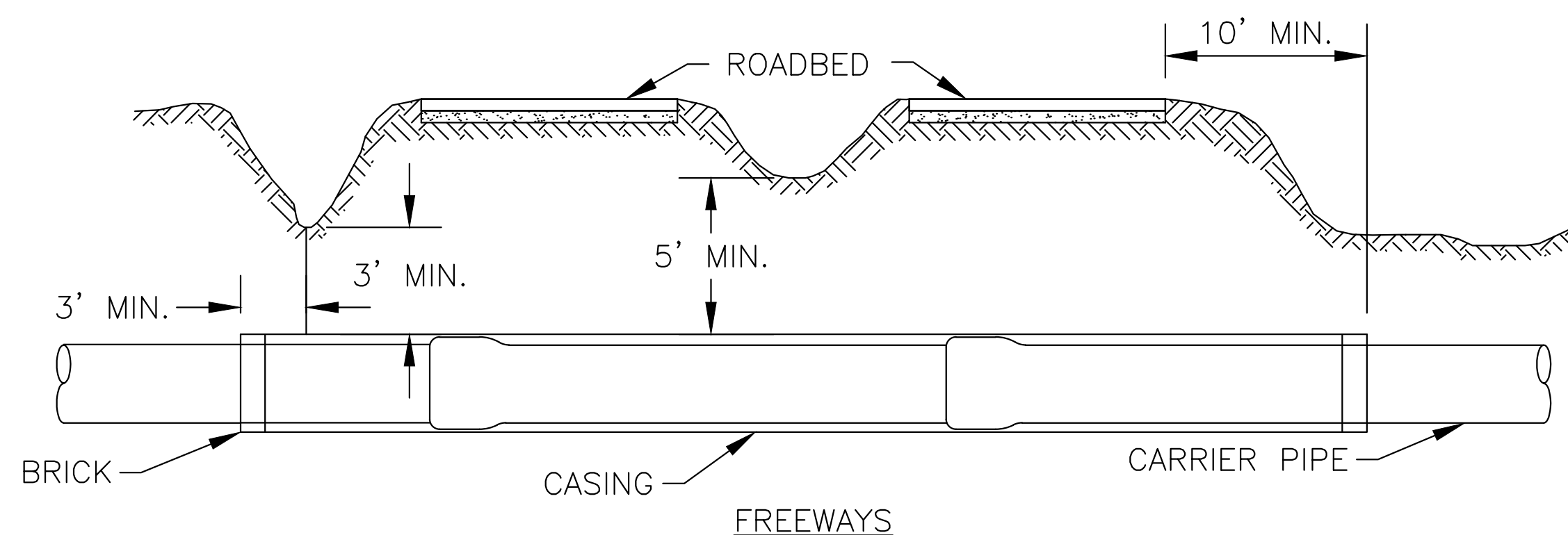
**SECTION A-A
MANHOLE COLLAR**



NOTE:

ASPHALTIC PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH GEORGIA DOT SPECIFICATIONS. ASPHALTIC TYPES AND MIXES SHALL BE GEORGIA DOT APPROVED MIX TYPES.

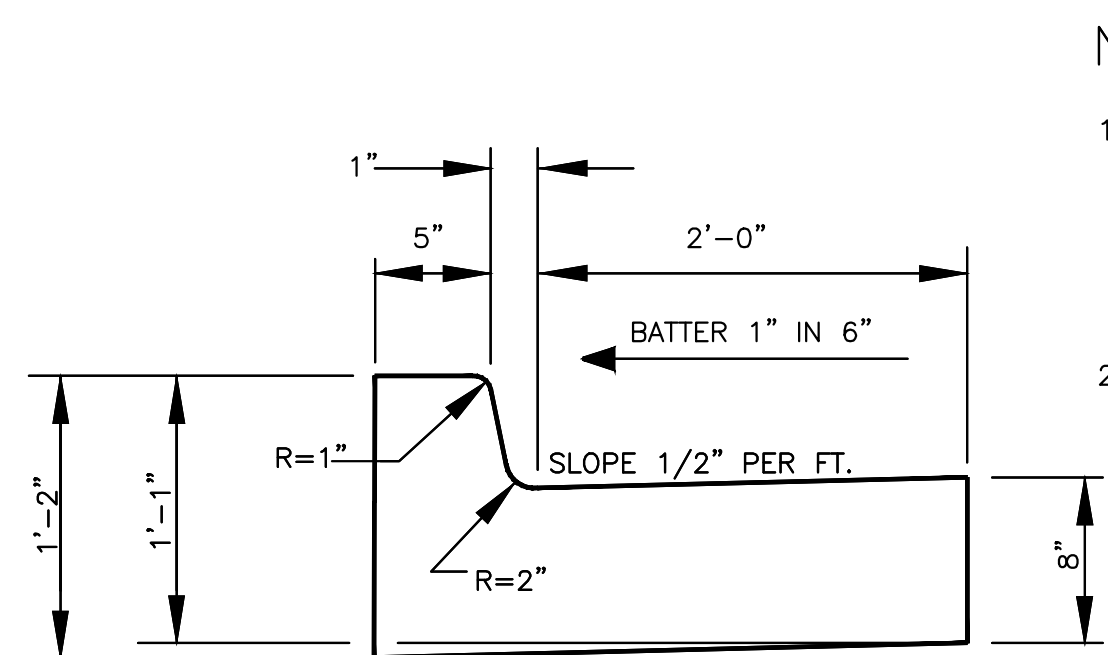
RESIDENTIAL STREET SECTION



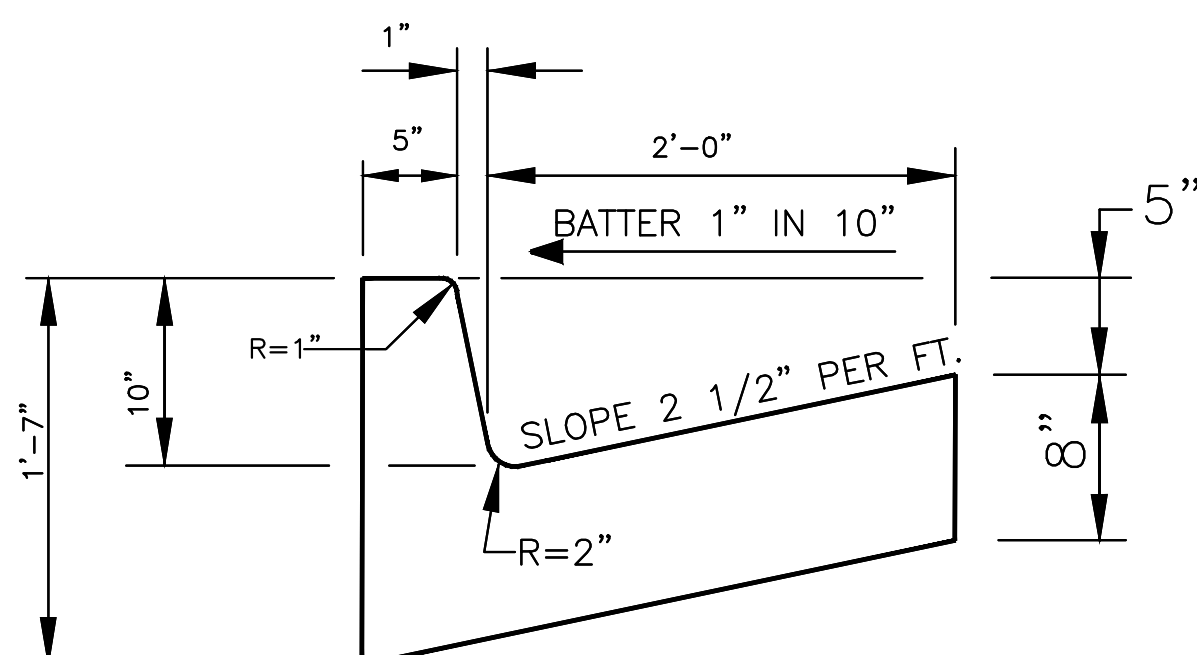
BORED CASINGS			
PIPE SIZE	PIPE O.D.	CASING SIZE	CASING I.D.
6"	6.90"	12"	11.376"
8"	9.05"	16"	14.314"
12"	13.20"	20"	17.938"
16"	17.40"	24"	21.564"
20"	21.60"	28"	27.0"
24"	25.80"	36"	35.0"

NOTE:
IF CASING UNDER RAILROAD IS NOT COATED OR CATHODICALLY PROTECTED, INCREASE THICKNESS .062"

TYPICAL FREEWAY CROSSING



SECTION A-A

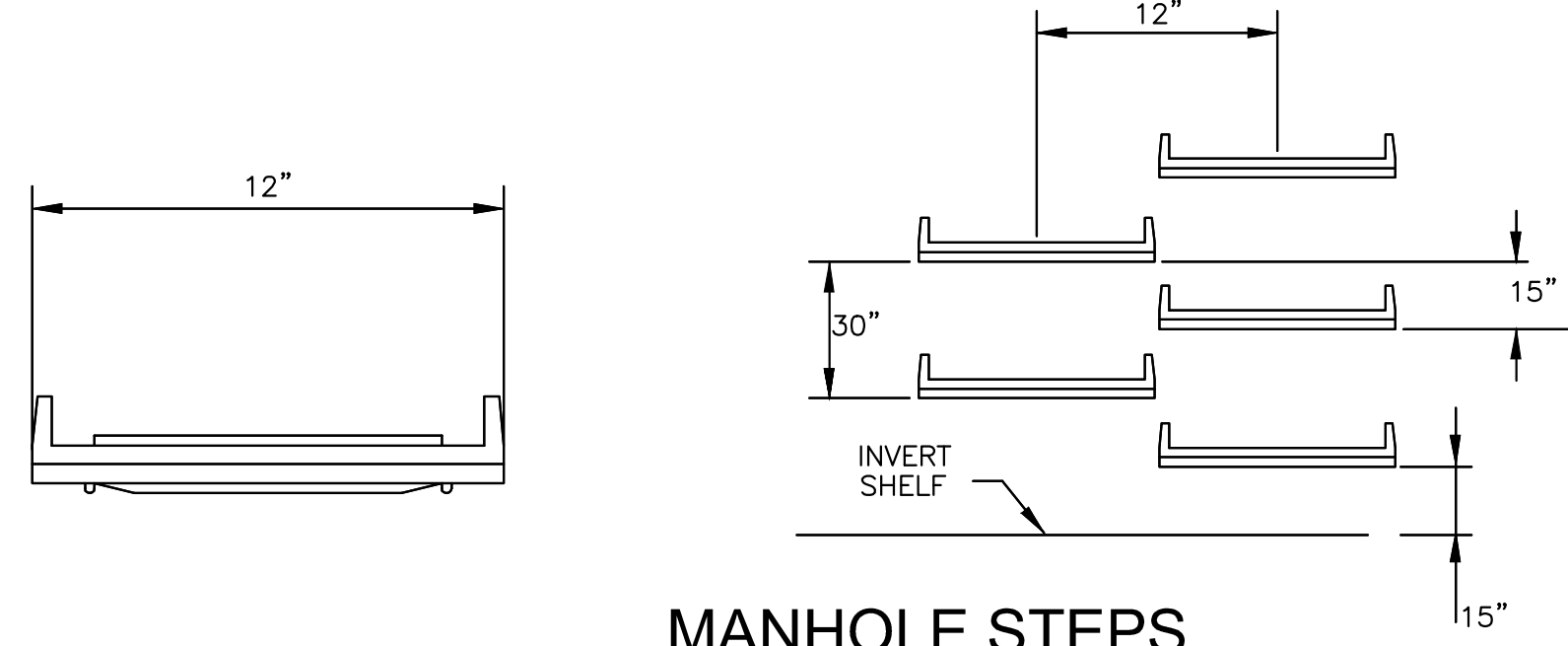


SECTION B-B

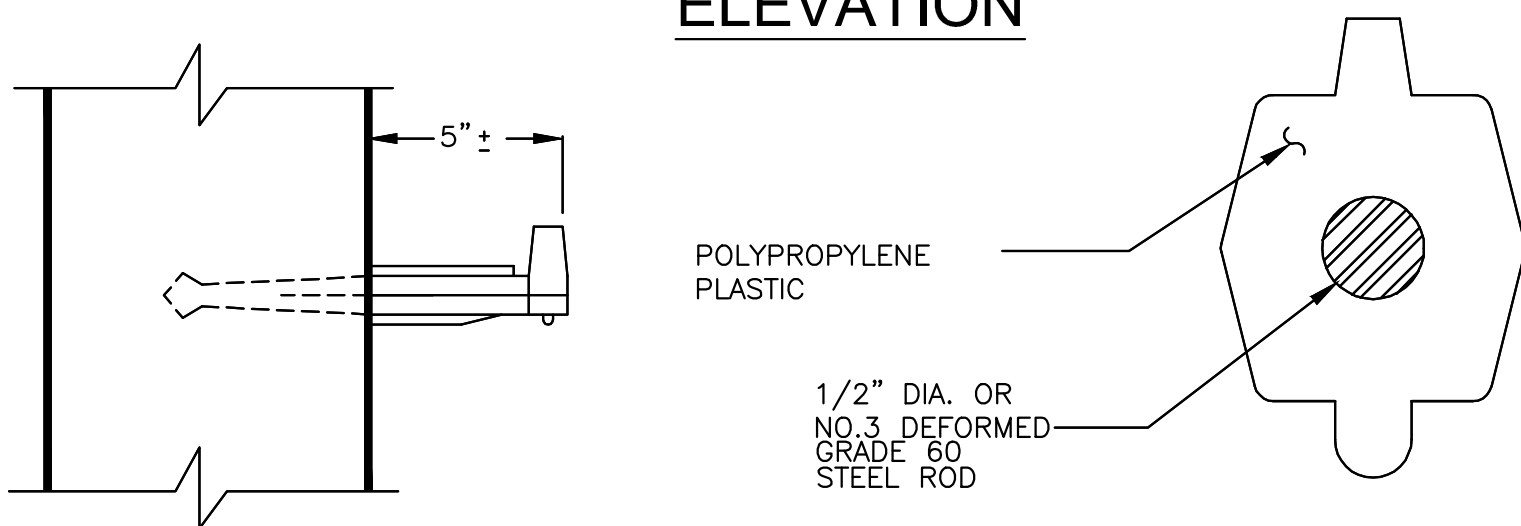
CONCRETE CURB AND GUTTER

NOTES:.

1. SECTIONS, WHERE DIRECTED BY THE ENGINEER MAY BE CONSTRUCTED IN UNIFORM LENGTHS OF TWENTY (20) FT. ON TANGENT. LENGTH MAY BE REDUCED FOR CLOSURE AND AT CORNERS TO NO LESS THAN SIX(6) FEET.
2. CONCRETE CURB AND GUTTER SHALL BE IN ACCORDANCE WITH GEORGIA DOT. SPECIFICATIONS SECTION 441.



MANHOLE STEPS ELEVATION



MANHOLE STEPS SECTION

NOTE: STEPS SHALL BE PLACED INTO WET CONCRETE WALL DURING MANUFACTURE OR MORTARED INTO HOLES AFTER CONCRETE HAS SET



DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED						
REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES			
N.O.	DATE	DESCRIPTION				
PHASE 1 COLLIER ROAD, SANITARY SEWER IMPROVEMENTS STANDARD DETAILS - 2						
SURVEYOR M. HARROD	FIELD BOOKS 185	L.L. DIST. 17TH	COUNTY FULTON	SCALE N.T.S.		
DRAWN BY R. CRAYTON, P.E.	DESIGNED BY XXXXXXXXXX	CHECKED BY XXXXXXXXXXXX	APPROVED BY XXXXXXXXXXXX	DATE 10-01-2016		
ENGINEER OF RECORD			PROJECT NUMBER: XX-XX-XX-XX-X	DATE OF SURVEY: 2016	SHEET 8 OF 8	

CITY OF ATLANTA

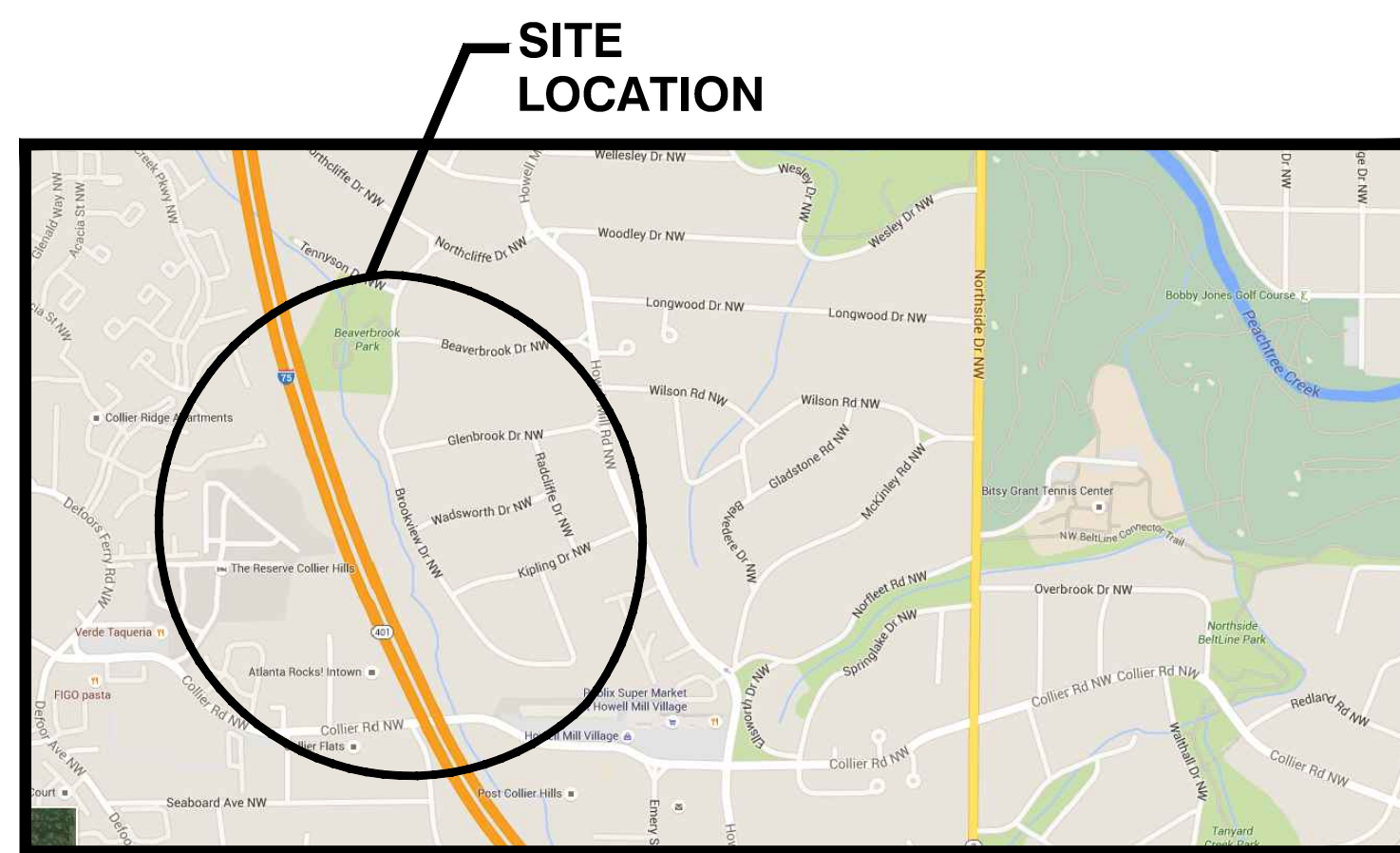
DEPARTMENT OF WATERSHED MANAGEMENT

OFFICE OF ENGINEERING SERVICES

CITY OF ATLANTA
KEISHA LANCE BOTTOMS
MAYOR

DEPARTMENT OF WATERSHED MANAGEMENT
KISHIA L. POWELL
COMMISSIONER

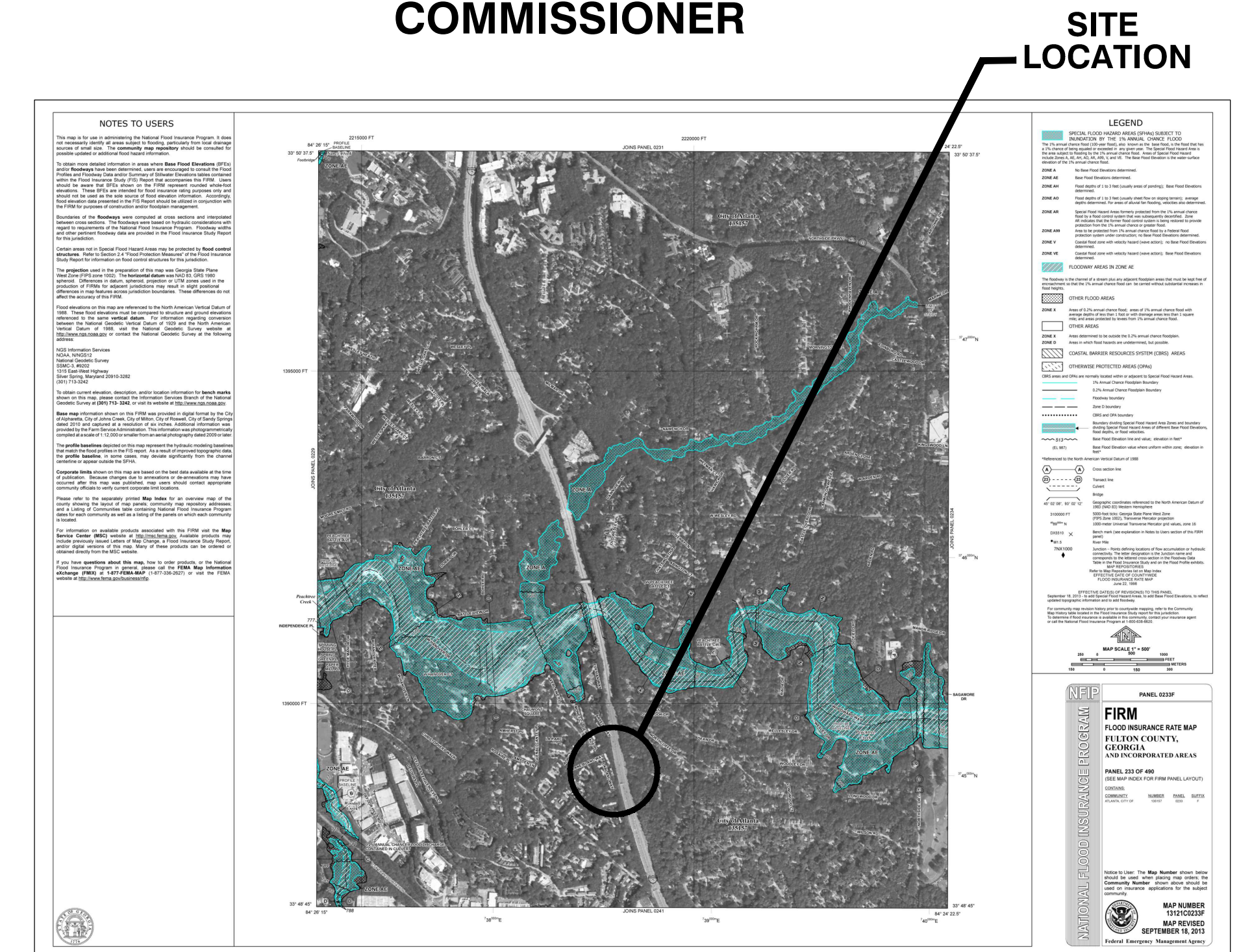
RELEASED FOR CONSTRUCTION



LOCATION MAP



PROPOSED CONSTRUCTION PLANS FOR PHASE 2 COLLIER RD SANITARY SEWER IMPROVEMENTS SEWER GROUP 4 FEBRUARY 24, 2017



PROJECT DESCRIPTION

THE CITY OF ATLANTA CURRENTLY HAS AN EXISTING 12 INCH SANITARY SEWER THAT IS IN NEED OF UPSIZING DUE TO SANITARY SEWER OVERFLOWS AND CAPACITY LIMITATIONS FROM GROWTH IN THE AREA. THE PROJECT IS LOCATED IN NORTH ATLANTA, JUST EAST OF I-75 AND WEST OF HOWELL MILL RD. THE EXISTING 12 INCH SEWER LINE TRANSVERSES FROM COLLIER RD AND HEAD NORTH THROUGH BROOKVIEW DRIVE, THROUGH BEAVER BROOK PARK AND ENDS IN TENNYSON DRIVE. THIS PROJECT CONSISTS OF THE INSTALLATION OF APPROXIMATELY 2732 L.F. OF 18 INCH DIP, 128.50 L.F. OF 12 INCH DIP, 14 L.F. OF 8 INCH DIP, 14 MANHOLES & 2 CATCH BASINS. MOST OF THE PROPOSED PIPE WILL BE INSTALLED BY OPEN CUT OR BY A TRENCHLESS CONSTRUCTION METHOD SUCH AS PIPE BURSTING OR DIRECTIONAL DRILLING.

- 1) WATERS OF THE STATE EXISTS ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- 2) NO WETLANDS EXIST ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- 3) TOTAL DISTURBED AREA IS APPROXIMATELY 36,802.25 S.F./,84 ACRES.

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.

THIS PROJECT IS EXEMPT FROM NPDES PERMITTING REQUIREMENTS, DISTURBED AREA IS LESS THAN 1 ACRE.

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.



REGINALD CRAYTON
 LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER 0000068648
 ISSUED: 06/02/2016... EXPIRES: 06/02/2019

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

SHEET INDEX

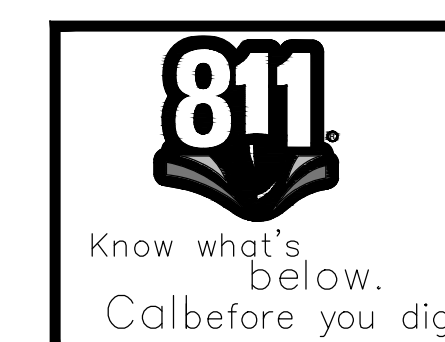
1. COVER SHEET
2. GENERAL NOTES
3. EXISTING CONDITIONS PLAN -1
4. EXISTING CONDITIONS PLAN -2
5. EXISTING CONDITIONS PLAN -3
6. PROPOSED SANITARY PLAN & PROFILE
7. PROPOSED SANITARY PLAN & PROFILE
8. PROPOSED SANITARY PLAN & PROFILE
9. PROPOSED SANITARY PLAN & PROFILE
10. EROSION CONTROL PLAN-1
11. EROSION CONTROL PLAN-2
12. EROSION CONTROL PLAN-3
13. EROSION NOTES & DETAILS
14. STANDARD DETAILS-1
15. STANDARD DETAILS-2
16. TP-1 - BEAVER BROOK PARK TREE REMOVAL, PROTECTION AND REPLACEMENT PLAN
17. TP-2 - BEAVER BROOK PARK TREE REMOVAL, PROTECTION AND REPLACEMENT PLAN

FIRM FLOOD INSURANCE RATE MAP

NOTE:
 STATE WATERS ARE LOCATED ON OR WITHIN 200 FT OF THIS SITE.

F.I.R.M. NOTE
 AS SHOWN ON FLOOD INSURANCE RATE MAP OF FULTON COUNTY, GEORGIA COMMUNITY PANEL NUMBER: 13121C0253F
 EFFECTIVE DATE SEPTEMBER 18, 2013
 THIS PROPERTY IS LOCATED IN ZONE AE (BASE FLOOD ELEVATIONS DETERMINED)

24 HOUR CONTACT
REGINALD CRAYTON
CALL CENTER
(404) 798-5612



REVISIONS	
DATE	DESCRIPTION

ENGINEER OF RECORD

GENERAL NOTES:

- 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.
- 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.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE LATEST CITY OF ATLANTA STANDARDS.
- 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.
- ALL REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM-C76 CLASS III OR AS OTHERWISE NOTED ON THE CONTRACT DRAWINGS.
- 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.
- 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.
- THE CONTRACTOR SHALL COORDINATE WORK WITH CITY OF ATLANTA. CONTRACTOR SHALL PROVIDE SUFFICIENT ADVANCE NOTICES OF PROPOSED WORK SCHEDULE.
- 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.
- CONTRACTOR SHALL INSTALL 6 FOOT HIGH TEMPORARY CHAIN LINK FENCE 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.
- CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION.
- 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.
- 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.
- 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.
- INSTALLATION OF NEW STORM AND SANITARY SEWERS, INCLUDING TRENCH EXCAVATION, SHOULD BE FINISHED BY CLOSE OF DAY, OR ADEQUATELY COVERED FOR SAFETY.
- 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.
- 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.
- CONTRACTOR SHALL ENTER UPON PRIVATE PROPERTY ONLY AFTER OBTAINING RIGHT OF ENTRY LETTER FROM THE CITY OF ATLANTA AND NOTIFYING HOMEOWNER IN ADVANCE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING ALL UTILITIES WITHIN THE EXCAVATION LIMITS DURING CONSTRUCTION.
- 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.
- 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.
- 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.
- 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.
- 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.

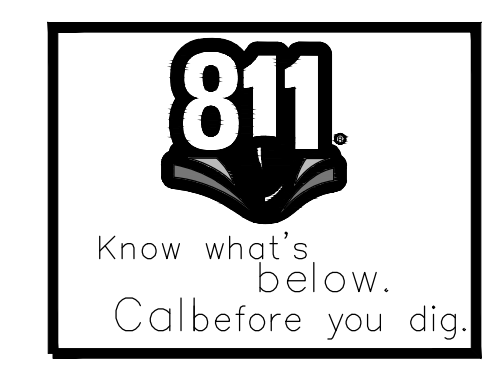
UTILITY COMPANIES

- 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

ABBREVIATIONS

- 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
- DW 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 REINFORCED CONCRETE PIPE
- 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

DESCRIPTION	EXISTING	PROPOSED
RIGHT OF WAY	--- R/W ---	
LAND LOT LINE	-----	
PROPERTY LINE	----- PL -----	
CENTER LINE/BASE LINE	----- C -----	----- C -----
EASEMENT (DRAINAGE, SANITARY)	[Hatched Pattern]	[Hatched Pattern]
EASEMENT (TEMPORARY)	[Diagonal Pattern]	[Diagonal Pattern]
DEMOLITION AREA	[Cross-hatched Pattern]	[Cross-hatched Pattern]
FENCE	---x---x---x---	---x---x---x---
EDGE OF PAVEMENT	-----	-----
CENTER LINE OF SWALE/CREEK	-----	-----
CONTOUR	-----900-----	-----900-----
UNDERGROUND POWER	-----UE-----	
OVERHEAD POWER	-----OHE-----	
UNDERGROUND TELEPHONE	-----UT-----	
UNDERGROUND TV CABLE	-----CTV-----	
GAS LINE	---G---G---G---	
WATER LINE	---W---W---W---	
SANITARY SEWER LINE	-----	-----
STORM DRAIN LINE	---ST---ST---ST---	---ST---ST---
SILT FENCE	---x---x---x---	
CABLE TV BOX	[Symbol]	
GUY POLE	[Symbol]	
UTILITY POLE (T=TELEPHONE, P=POWER, L=LIGHT)	[Symbol]	
UNDERGROUND TELEPHONE BOX	[Symbol]	
TELEPHONE MANHOLE	[Symbol]	
METER BOX (W=WATER, G=GAS)	[Symbol]	
CATCH BASIN	[Symbol]	
DROP INLET	[Symbol]	
HEADWALL	[Symbol]	
CITY OF ATLANTA CONTROL POINT (DELTA POINT)	[Symbol]	
PROPERTY MARKER (IPF=IRON PIN FOUND)	[Symbol]	
RETAINING WALL	[Symbol]	
CLEANOUT	[Symbol]	
SIDEWALK	[Symbol]	
CURB AND GUTTER	[Symbol]	
SIGNIFICANT TREES	[Symbol]	
BORING LOCATIONS	[Symbol]	
WATER VALVE	[Symbol]	
WATER METER	[Symbol]	
FIRE HYDRANT	[Symbol]	
SANITARY SEWER MANHOLE	[Symbol]	
STORM DRAIN MANHOLE	[Symbol]	
LIMITS OF CONSTRUCTION	-----	-----



DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
REVISIONS			CITY OF ATLANTA						
N.O.	DATE	DESCRIPTION	DEPARTMENT OF WATERSHED MANAGEMENT						
			OFFICE OF ENGINEERING SERVICES						
COLLIER RD SANITARY SEWER IMPROVEMENTS - PHASE 2									
GENERAL NOTES									
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE				
M. HARROD	185	17TH	FULTON	NO SCALE					
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE					
R. CRAYTON, P.E.		S. AIYEJORUN, P.E.	N. JOHNSON, P.E.	10-01-2016					
ENGINEER OF RECORD	PROJECT NUMBER: XX-XX-XX-XX-X	DATE OF SURVEY: 2016	SHEET 2 OF 17						

RELEASED FOR CONSTRUCTION

LINE THAT RUNS FROM COLLIER RD. IN A NORTHERLY DIRECTION TO THE M.H. AT THE CENTERLINE INTERSECTION OF BROOKVIEW DR. AND KIPLING DR.

MH# 23280105401
TOP MH= 821.17'
INV IN 12"= 813.07'
INV OUT 12"= 812.95'
INV IN 8" FROM N.E.= 813.09'
INV IN 8" FROM S.E.= 814.55'

MH# 23280105201
TOP MH= 823.93'
INV IN 8"= 816.27'
INV OUT 8"= 816.18'

MH# 23280130401
TOP MH= 823.32'
12" IN (S)= 816.05'
12" OUT (N)= 815.88'

MH# 23280105301
TOP MH= 835.07'
INV IN 8"= 827.67'
INV OUT 8"= 827.58'

MH# 23280105501
TOP MH= 853.77'
INV IN (SE)= 845.71'
INV OUT (NW)= 845.62'

MH# 23280110301
TOP MH= 827.19'
INV IN= 818.91'
INV OUT= 818.86'

MH# 23280110401
TOP MH= 829.39'
INV IN= 819.43'
INV OUT= 819.24'

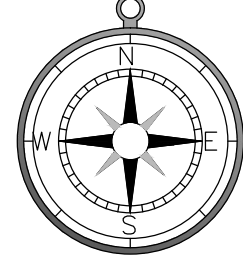
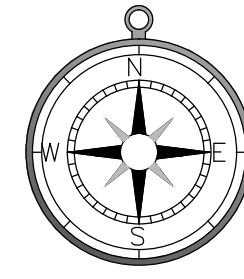
MH# 23280110601
TOP SSMH= 835.67'
INV IN= 819.78'

MH# 23280130301
TOP SSMH= 834.43'
INV IN= 820.11'
INV OUT= 819.93'

MH# 23180215001
TOP = 833.61'
10" DIP IN (W)= 826.96'
10" DIP OUT (E)= 823.61'

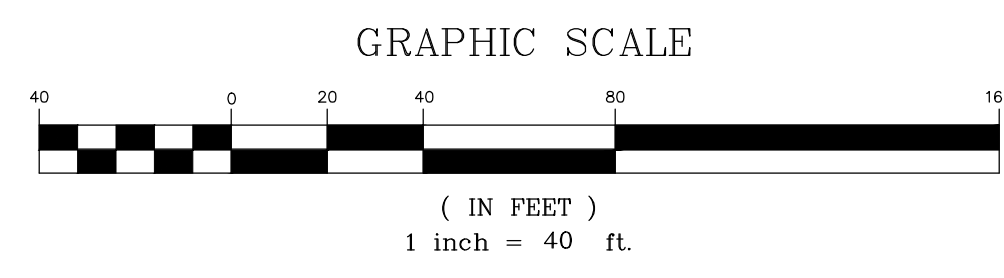
MH# 23180214701
TOP SSMH= 832.09'
INV OUT= 820.74'

MH# 23180214801
TOP SSMH = 833.06'
10" DIP IN (NW)= 821.91'
10" DIP IN (SW)= 821.42'
10" DIP IN (SE)= 821.87'
10" DIP OUT (NE)= 821.30'

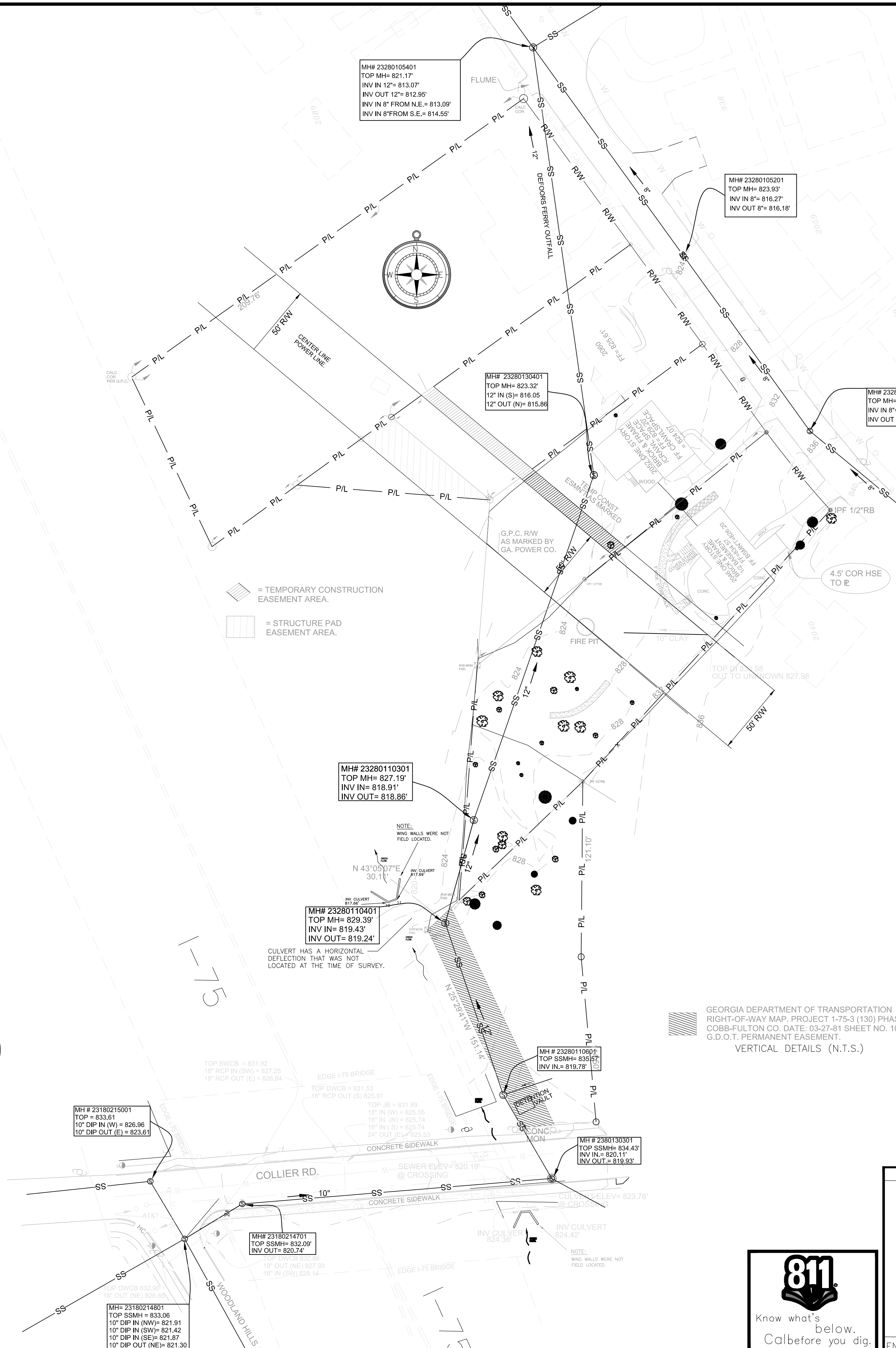
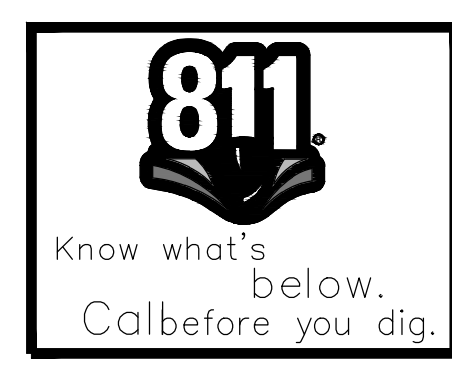


TEMPORARY CONSTRUCTION EASEMENT AREA.
STRUCTURE PAD EASEMENT AREA.

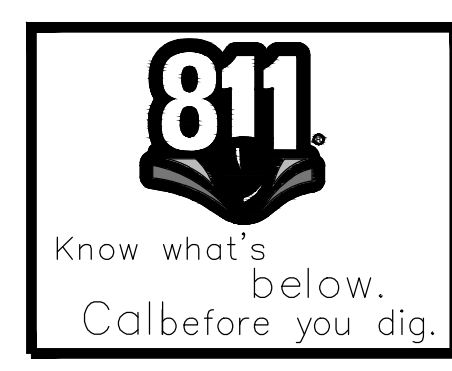
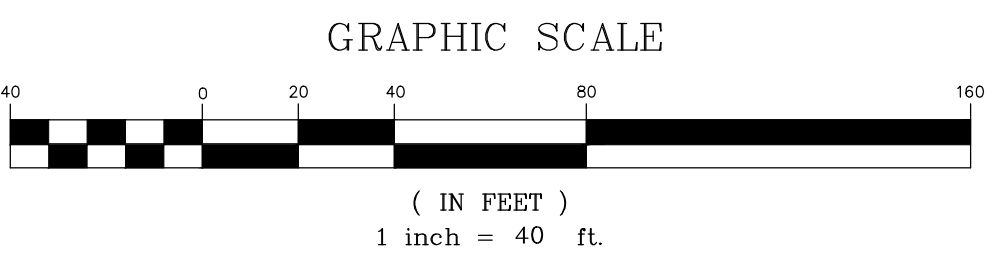
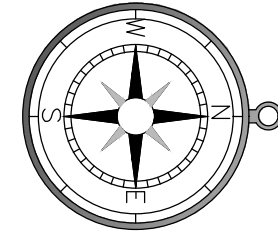
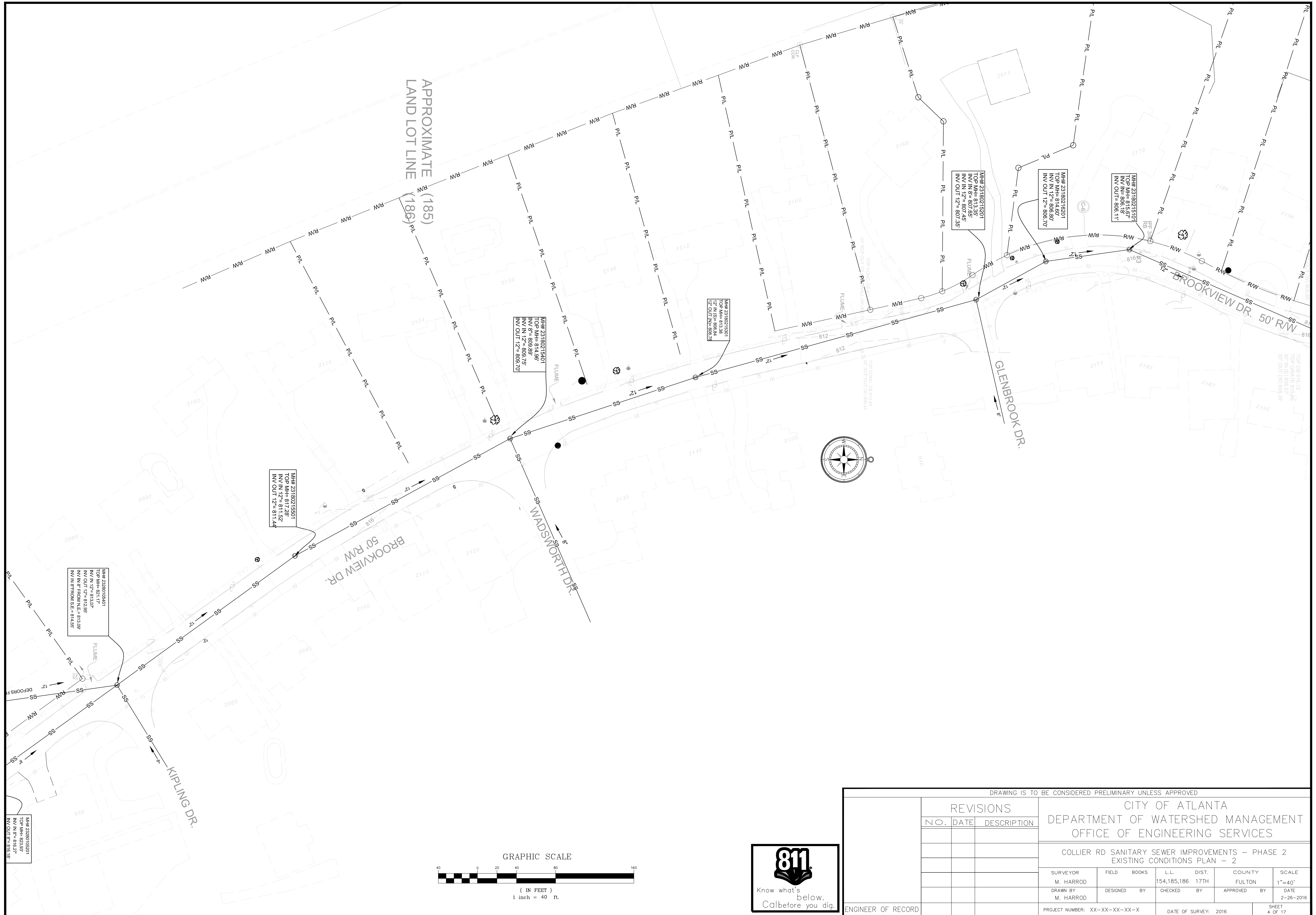
GEORGIA DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY MAP, PROJECT 1-75-3 (130) PHASE 2
COBB-FULTON CO. DATE: 03-27-81 SHEET NO. 10
G.D.O.T. PERMANENT EASEMENT.
VERTICAL DETAILS (N.T.S.)



DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED					
REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES		
N.O.	DATE	DESCRIPTION			
			COLLIER ROAD SANITARY SEWER IMPROVEMENT - PHASE 2 EXISTING CONDITIONS PLAN - 1		
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE
M. HARROD	154,185,186	17TH	FULTON		1"=40'
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	
M. HARROD				02-26-2016	
PROJECT NUMBER: XX-XX-XX-XX-X			DATE OF SURVEY: 2016		SHEET 3 OF 17

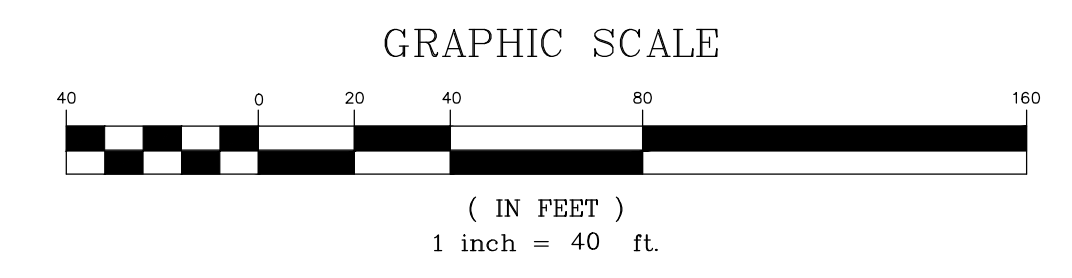
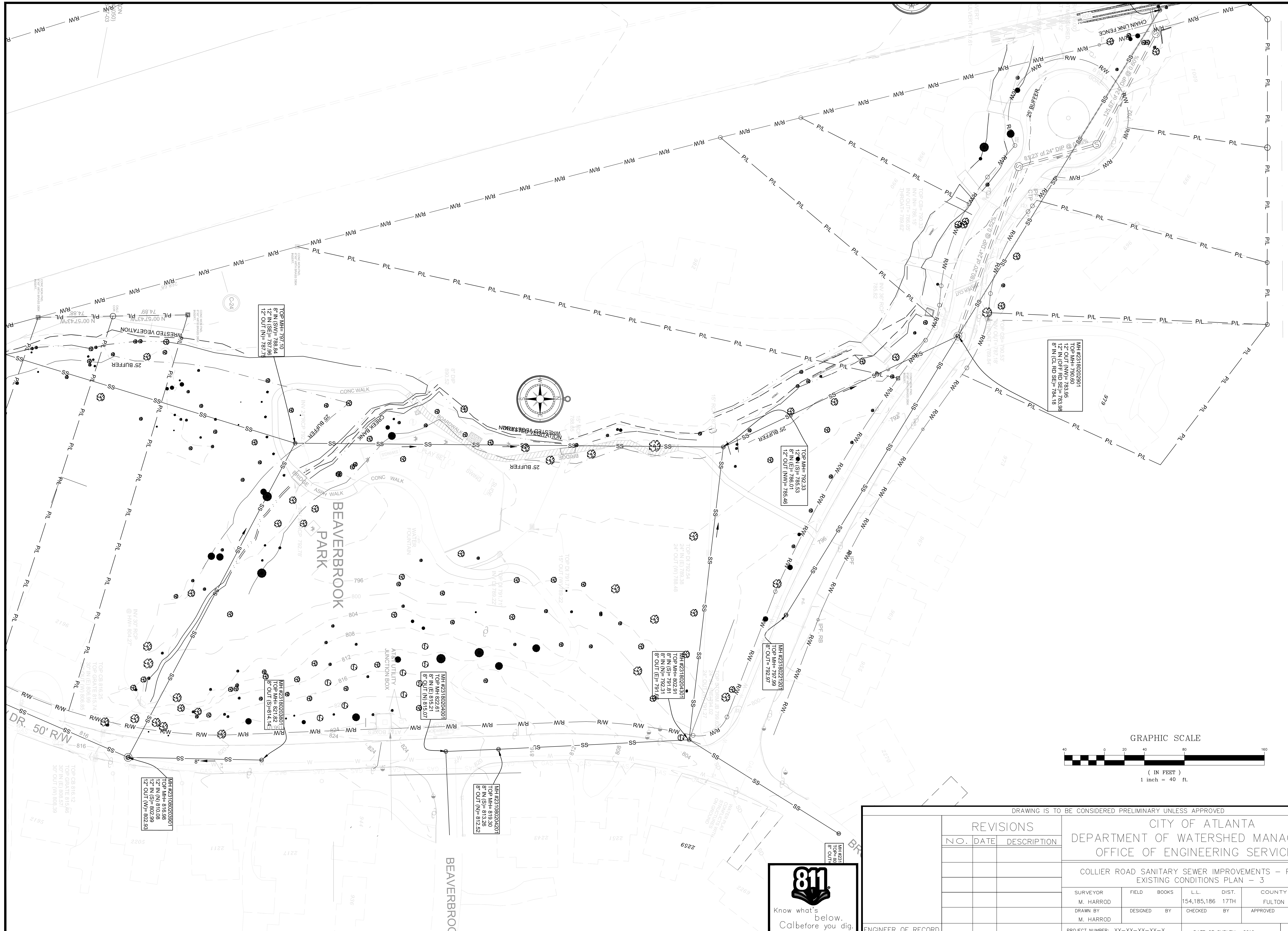


RELEASED FOR CONSTRUCTION



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REVISIONS			CITY OF ATLANTA		
N.O.	DATE	DESCRIPTION	DEPARTMENT OF WATERSHED MANAGEMENT		
			OFFICE OF ENGINEERING SERVICES		
COLLIER RD SANITARY SEWER IMPROVEMENTS - PHASE 2					
EXISTING CONDITIONS PLAN - 2					
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE
M. HARROD		154,185,186	17TH	FULTON	1"=40'
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	
M. HARROD				2-26-2016	
PROJECT NUMBER: XX-XX-XX-XX-X			DATE OF SURVEY: 2016		SHEET 4 OF 17

ENGINEER OF RECORD



REVISIONS	
N.O.	DESCRIPTION

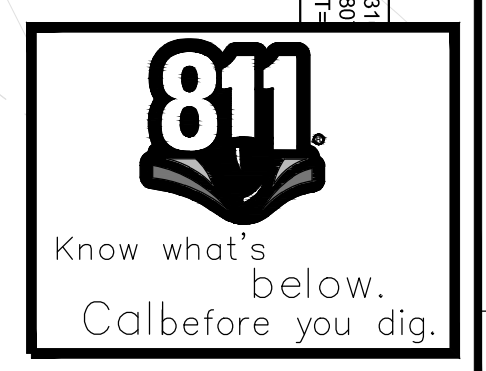
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CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT
OFFICE OF ENGINEERING SERVICES

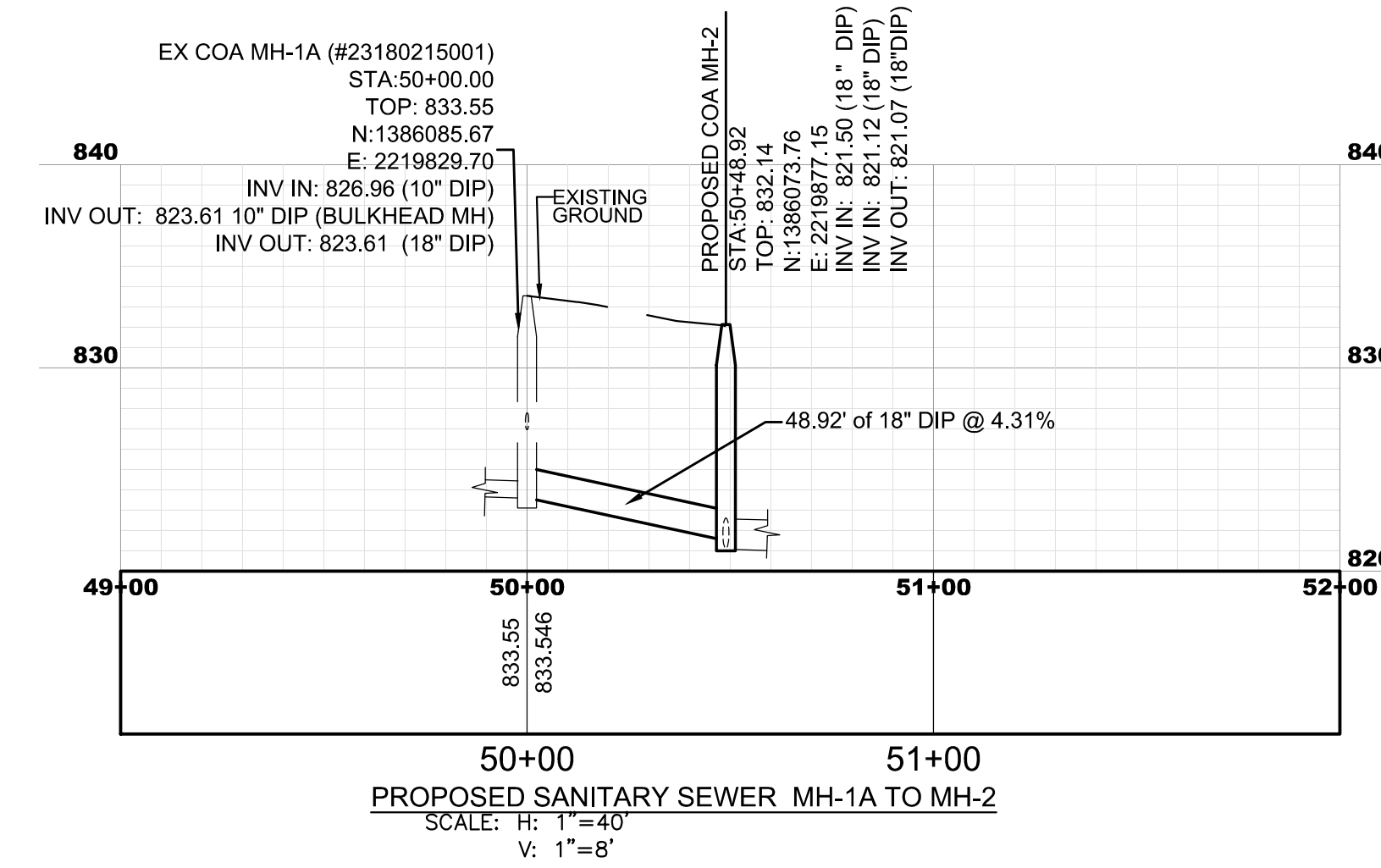
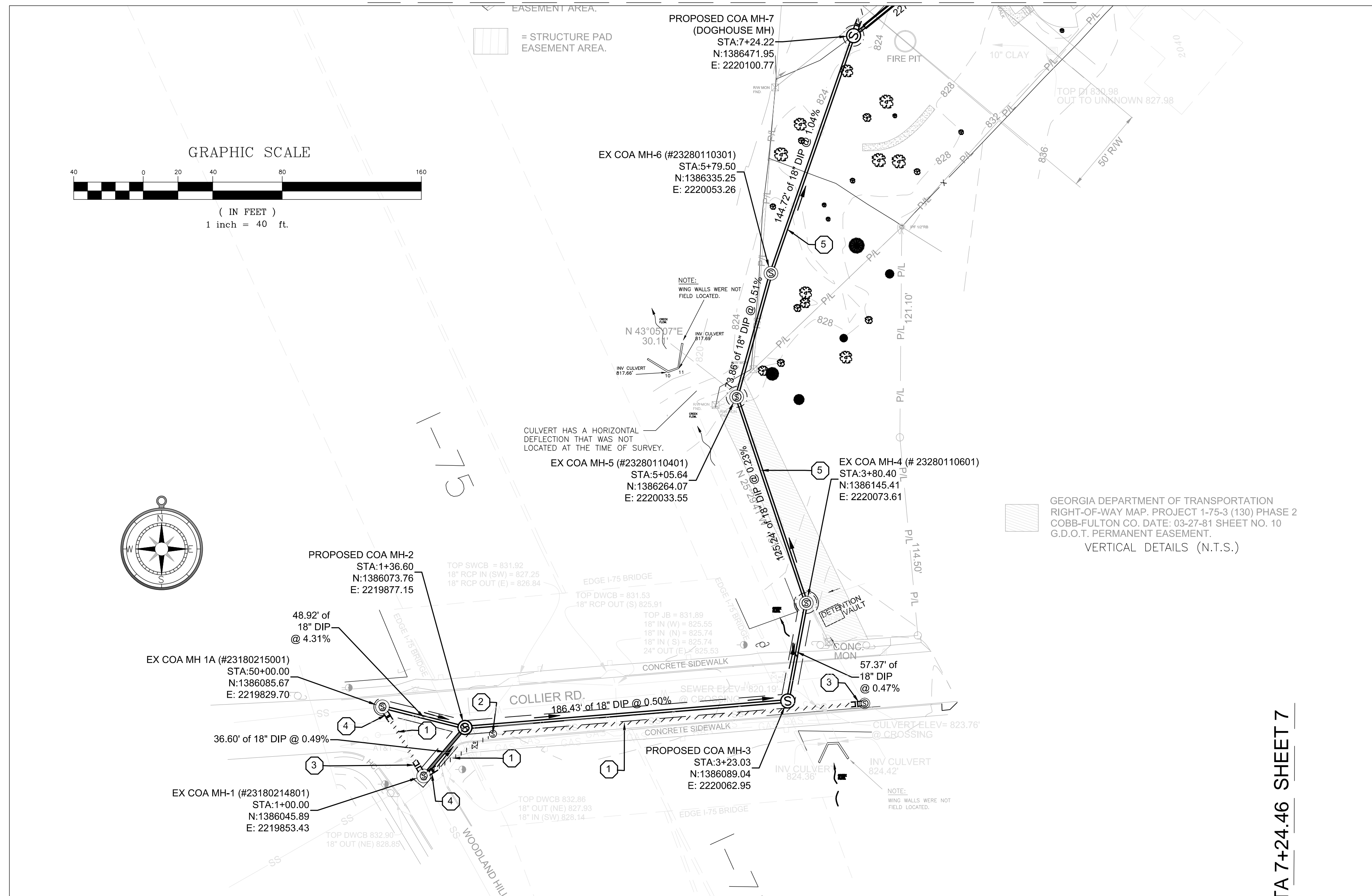
COLLIER ROAD SANITARY SEWER IMPROVEMENTS - PHASE 2
EXISTING CONDITIONS PLAN - 3

SURVEYOR M. HARROD	FIELD BOOKS DESIGNED BY	L.L. DIST. 154,185,186 17TH	COUNTY FULTON	SCALE 1"=40'
DRAWN BY M. HARROD	CHECKED BY	APPROVED BY	DATE 2-26-2016	

PROJECT NUMBER: XX-XX-XX-XX-X DATE OF SURVEY: 2016 SHEET 5 OF 17



ENGINEER OF RECORD

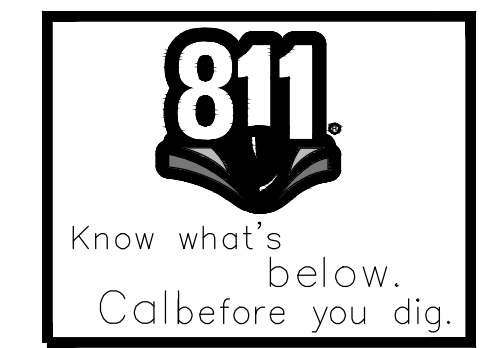
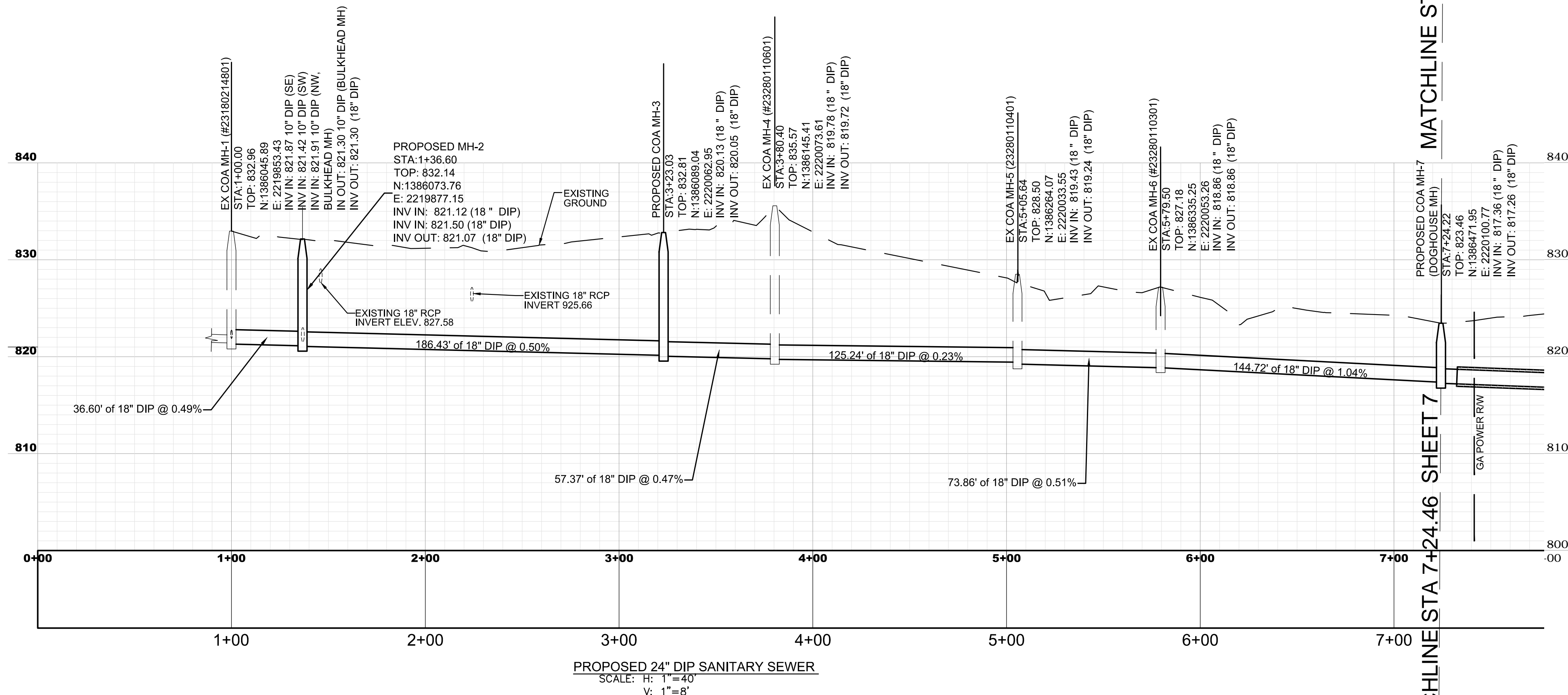


KEYED NOTES:

1. EXISTING PIPE TO BE ABANDONED IN PLACE AND GROUT FILLED. CONTRACTOR TO BULKHEAD PIPE END/ENDS. SEE PLAN SHEET PLACEMENT.
2. EXISTING MANHOLE TO BE ABANDONED IN PLACE AND GROUT FILLED.
3. BULKHEAD EXISTING MANHOLE AT INLET.
4. BULKHEAD EXISTING MANHOLE AT OUTLET.
5. METHOD OF PIPE INSTALLATION, PIPE BURSTING.

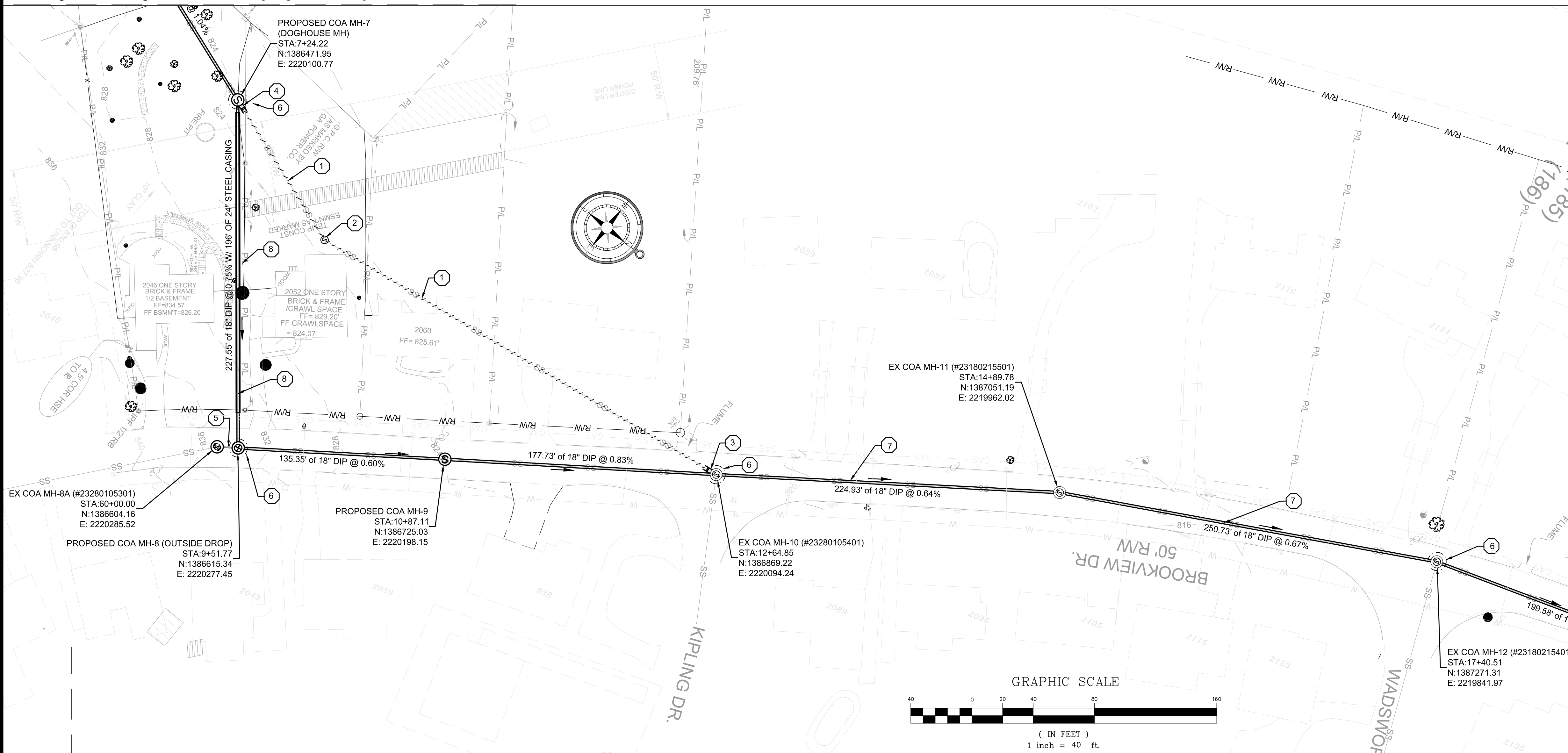
NOTES:

- A) ALL UTILITY LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR IS TO FIELD VERIFY THE LOCATION, SIZE, ELEVATION AND MATERIAL OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
- B) THE REMOVAL OF ASPHALT OR CONCRETE PAVEMENT SHALL BE ACCOMPLISHED BY NEATLY SAW CUTTING THE PAVEMENT SECTIONS.
- C) ROAD MUST BE ACCESSIBLE TO LOCAL TRAFFIC AT ALL TIMES.
- D) THE CONTRACTOR SHALL CONDUCT THE CONSTRUCTION OPERATIONS TO ALLOW FOR SAFE PASSAGE OF ALL MOTORIST AND PEDESTRIANS IN THE AREA.
- E) METHOD OF PIPE INSTALLATION WILL BE BY OPEN CUT UNLESS OTHERWISE NOTED.

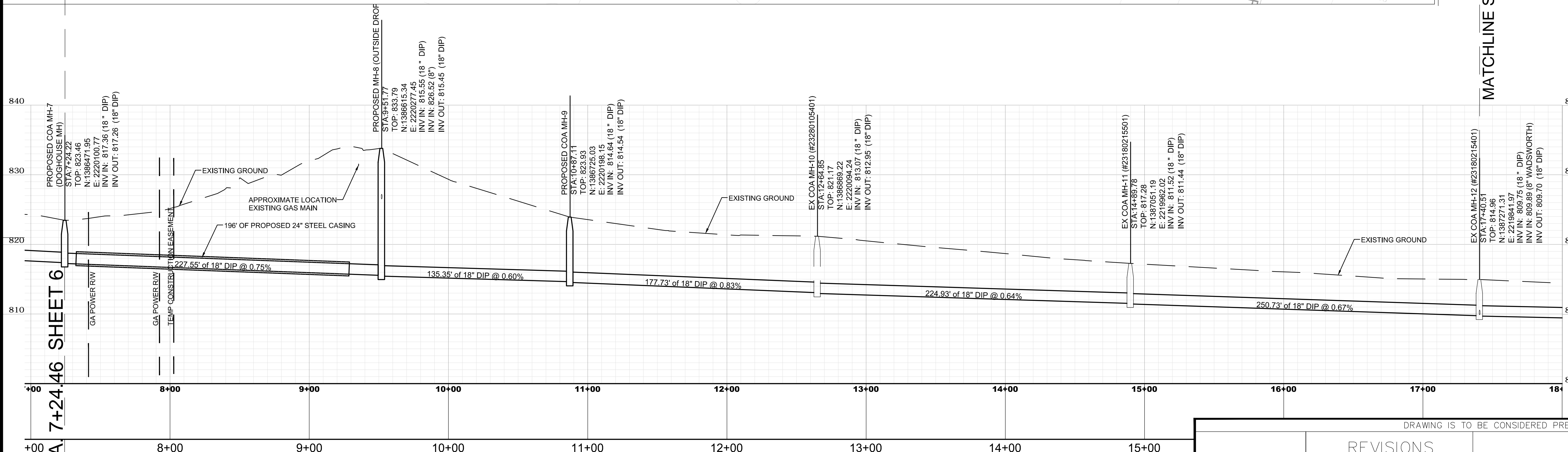
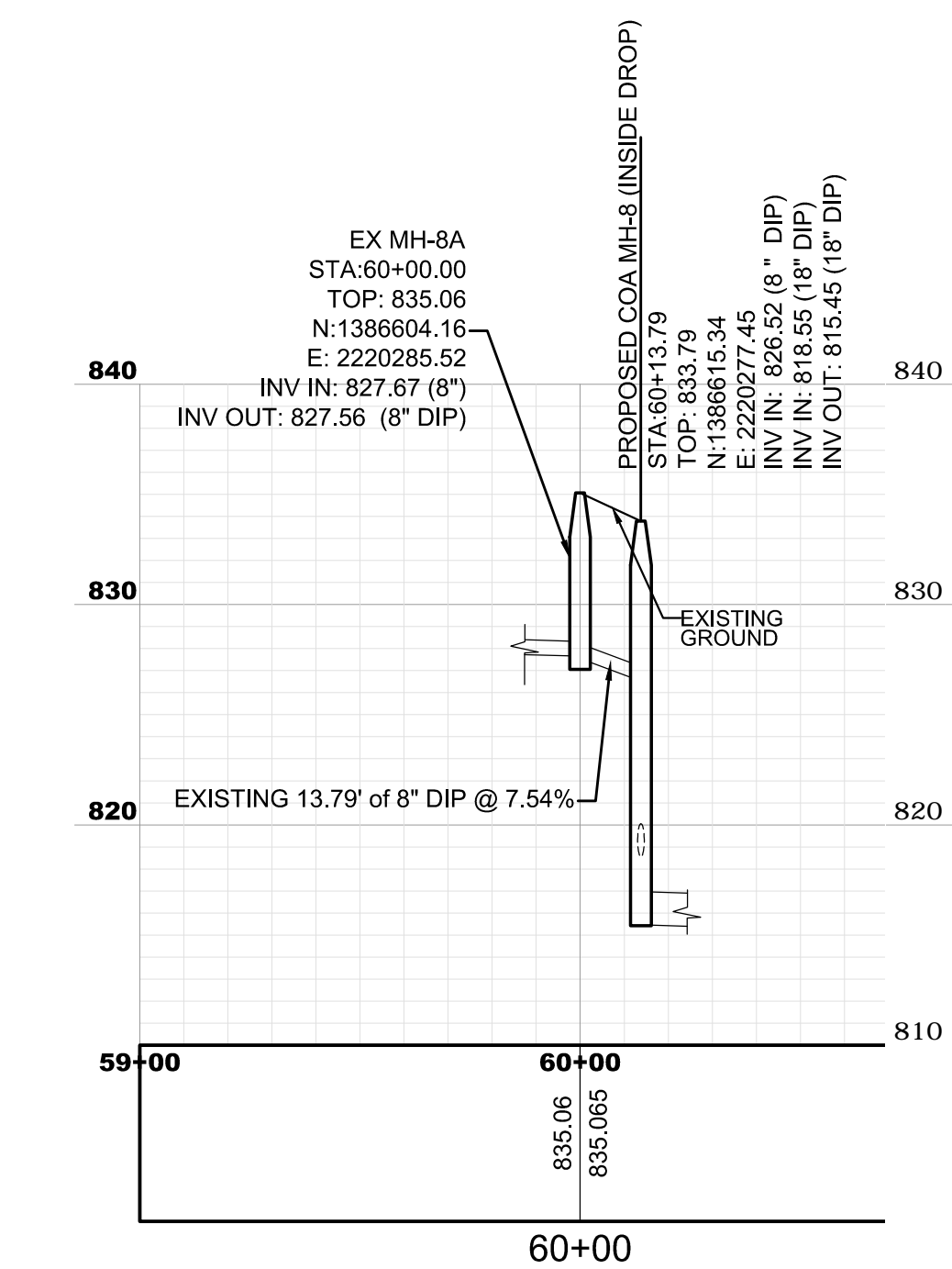


DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES						
N.O.	DATE	DESCRIPTION							
COLLIER ROAD, SANITARY SEWER IMPROVEMENTS - PHASE 2 PLAN & PROFILE-1									
SURVEYOR M. HARROD	FIELD BOOKS 154,185,186	L.L. DIST. 17TH	COUNTY FULTON	SCALE 1"=40'					
DRAWN BY R. CRAYTON, P.E.	DESIGNED BY XXXXXXXXXX	CHECKED BY XXXXXXXXXX	APPROVED BY XXXXXXXXXX	DATE 03-08-2016					
ENGINEER OF RECORD		PROJECT NUMBER: XX-XX-XX-X		DATE OF SURVEY: 2016	SHEET 6 OF 17				

RELEASED FOR CONSTRUCTION



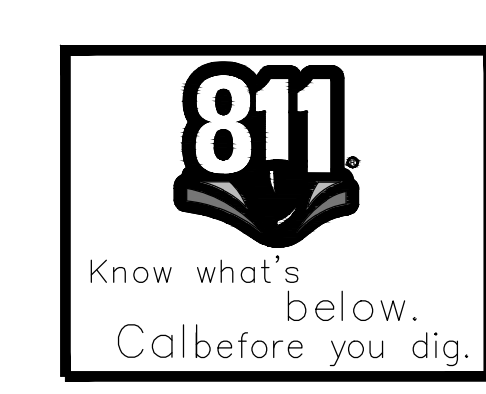
- KEYED NOTES:
- EXISTING PIPE TO BE ABANDONED IN PLACE AND GROUT FILLED. CONTRACTOR TO BULKHEAD PIPE END/ENDS. SEE PLAN SHEET PLACEMENT.
 - EXISTING MANHOLE TO BE ABANDONED IN PLACE AND GROUT FILLED.
 - BULKHEAD EXISTING MANHOLE AT INLET.
 - BULKHEAD EXISTING MANHOLE AT OUTLET.
 - 13.79 L.F. OF EXISTING 12" AT 7.54%
 - PROPOSED LAUNCHING AND RECEIVING PIT, ACTUAL SIZE TO BE DETERMINED BY THE CONTRACTOR.
 - METHOD OF PIPE INSTALLATION SHALL BE PIPE BURSTING.
 - METHOD OF PIPE INSTALLATION SHALL BE DIRECTIONAL DRILLING.



- NOTES:
- ALL UTILITY LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR IS TO FIELD VERIFY THE LOCATION, SIZE, ELEVATION AND MATERIAL OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
 - THE REMOVAL OF ASPHALT OR CONCRETE PAVEMENT SHALL BE ACCOMPLISHED BY NEATLY SAW CUTTING THE PAVEMENT SECTIONS.
 - ROAD MUST BE ACCESSIBLE TO LOCAL TRAFFIC AT ALL TIMES.
 - THE CONTRACTOR SHALL CONDUCT THE CONSTRUCTION OPERATIONS TO ALLOW FOR SAFE PASSAGE OF ALL MOTORIST AND PEDESTRIANS IN THE AREA.
 - METHOD OF PIPE INSTALLATION WILL BE BY OPEN CUT UNLESS OTHERWISE NOTED.

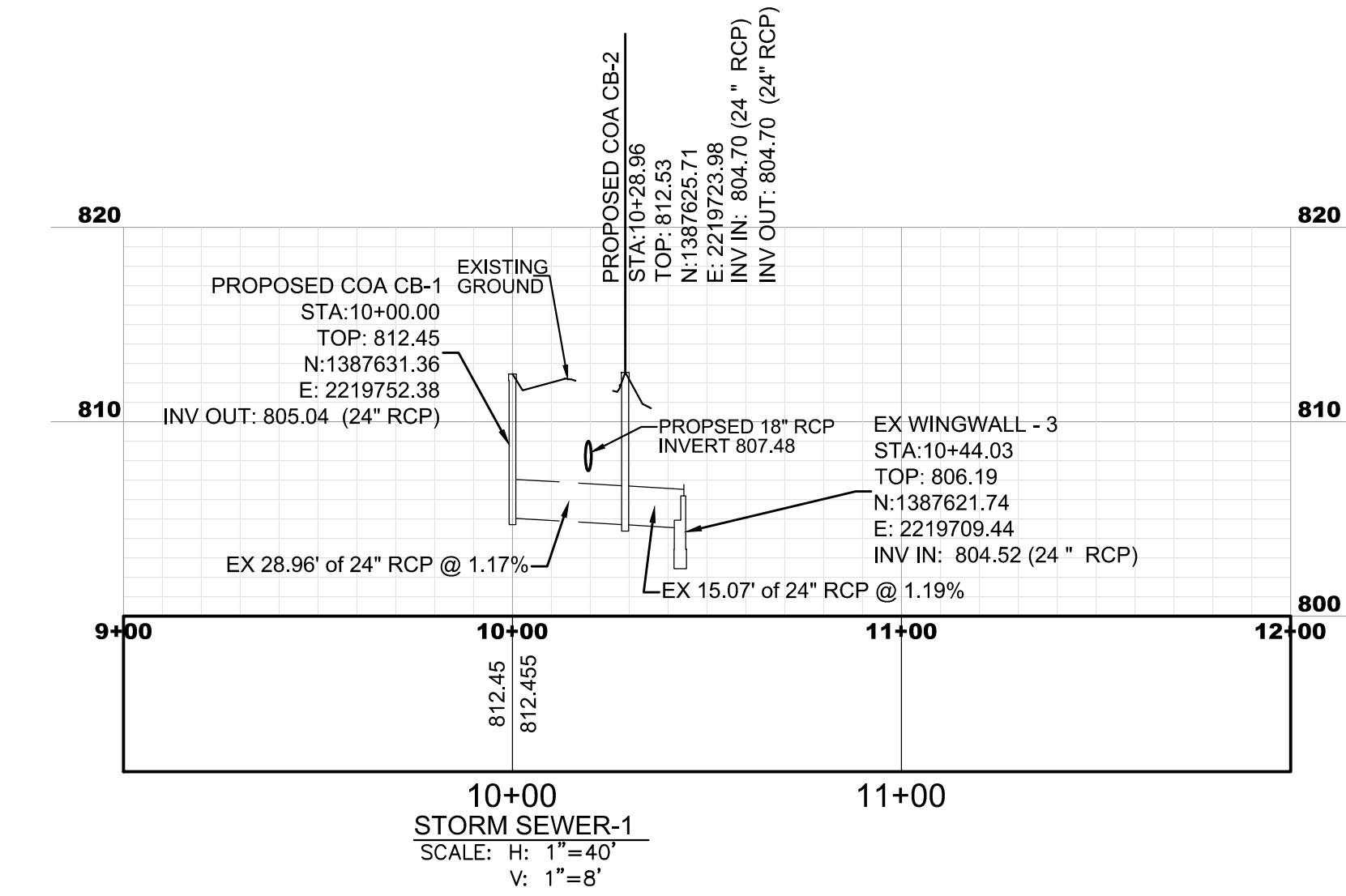
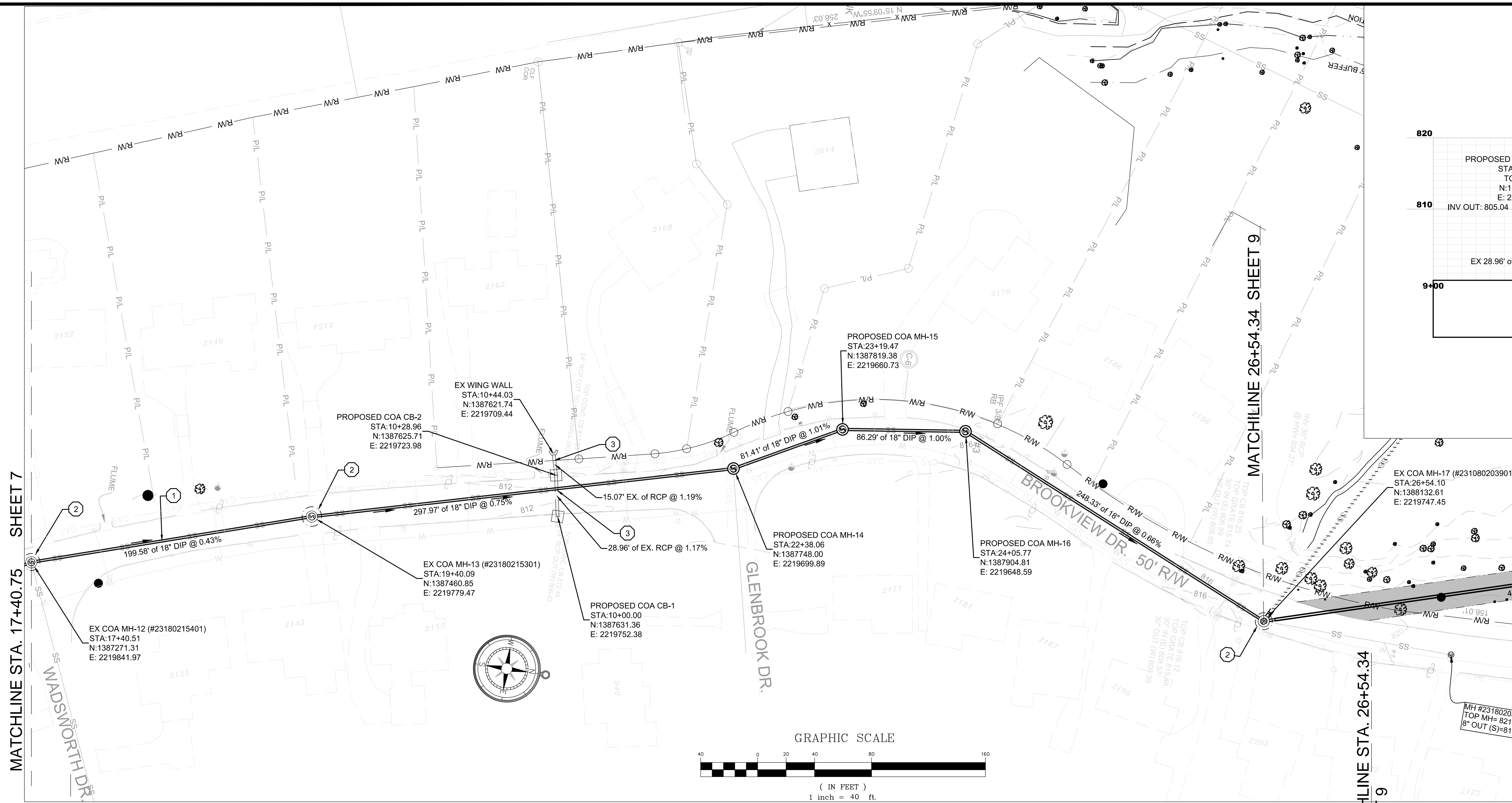
DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED

REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES				
N.O.	DATE	DESCRIPTION					
			COLLIER ROAD, SANITARY SEWER IMPROVEMENTS - PHASE 2 PLAN & PROFILE-2				
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE		
M. HARROD	154,185,186	17TH	FULTON	1"=30'			
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE			
R. CRAYTON, P.E.	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	03-08-2016			
PROJECT NUMBER: XX-XX-XX-XX-X			DATE OF SURVEY: 2016		SHEET 7 OF 17		

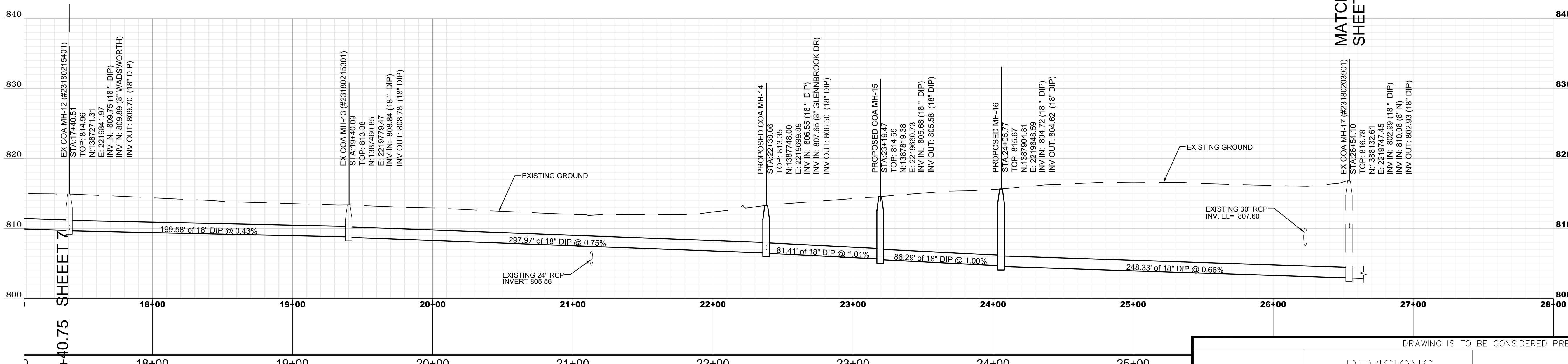


ENGINEER OF RECORD

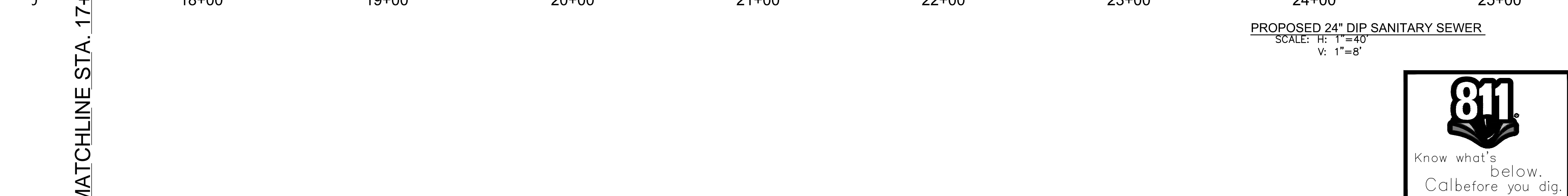
PROPOSED 24" DIP SANITARY SEWER
SCALE: H: 1"=40'
V: 1"=8'



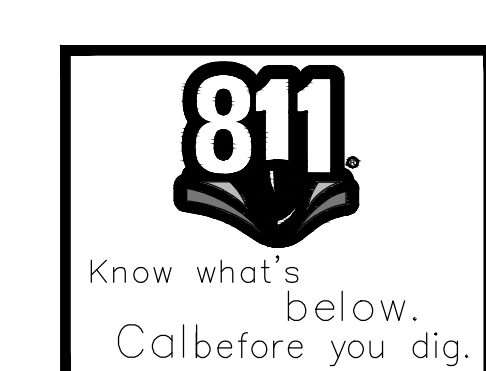
- KEYED NOTES:**
- METHOD OF PIPE INSTALLATION, PIPE BURSTING, EX COA MH 12 TO EX COA MH-13.
 - PROPOSED LAUNCHING AND RECEIVING PIT, ACTUAL SIZE TO BE DETERMINED BY THE CONTRACTOR.
 - EXISTING STORM SEWER TO BE LOWERED



- NOTES:**
- ALL UTILITY LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR IS TO FIELD VERIFY THE LOCATION, SIZE, ELEVATION AND MATERIAL OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
 - THE REMOVAL OF ASPHALT OR CONCRETE PAVEMENT SHALL BE ACCOMPLISHED BY NEATLY SAW CUTTING THE PAVEMENT SECTIONS.
 - ROAD MUST BE ACCESSIBLE TO LOCAL TRAFFIC AT ALL TIMES.
 - THE CONTRACTOR SHALL CONDUCT THE CONSTRUCTION OPERATIONS TO ALLOW FOR SAFE PASSAGE OF ALL MOTORIST AND PEDESTRIANS IN THE AREA.
 - METHOD OF PIPE INSTALLATION WILL BE BY OPEN CUT UNLESS OTHERWISE NOTED.



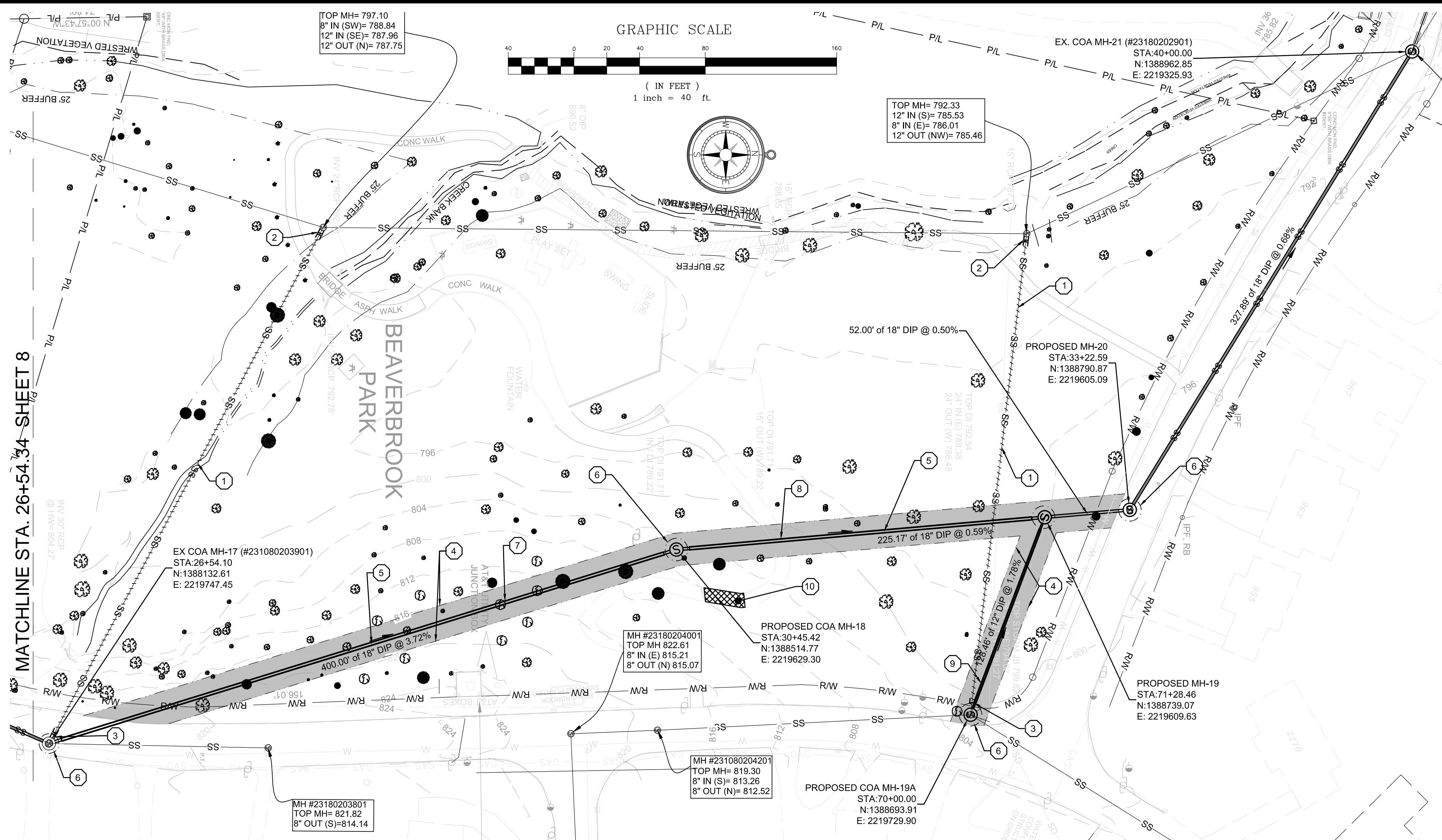
PROPOSED 24" DIP SANITARY SEWER
SCALE: H: 1"=40'
V: 1"=8'



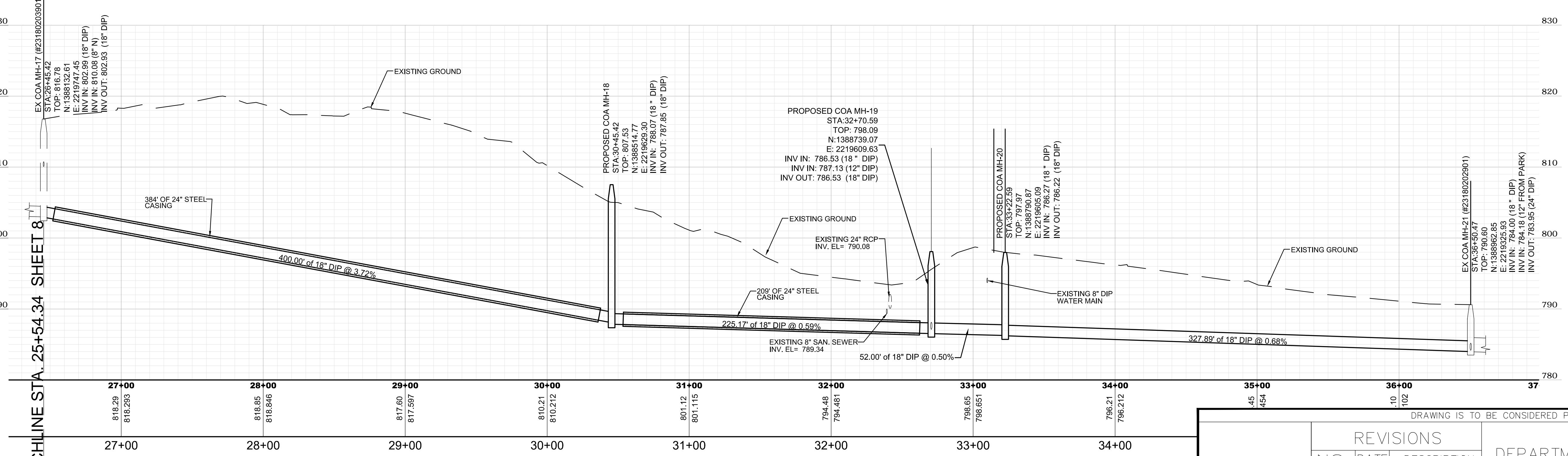
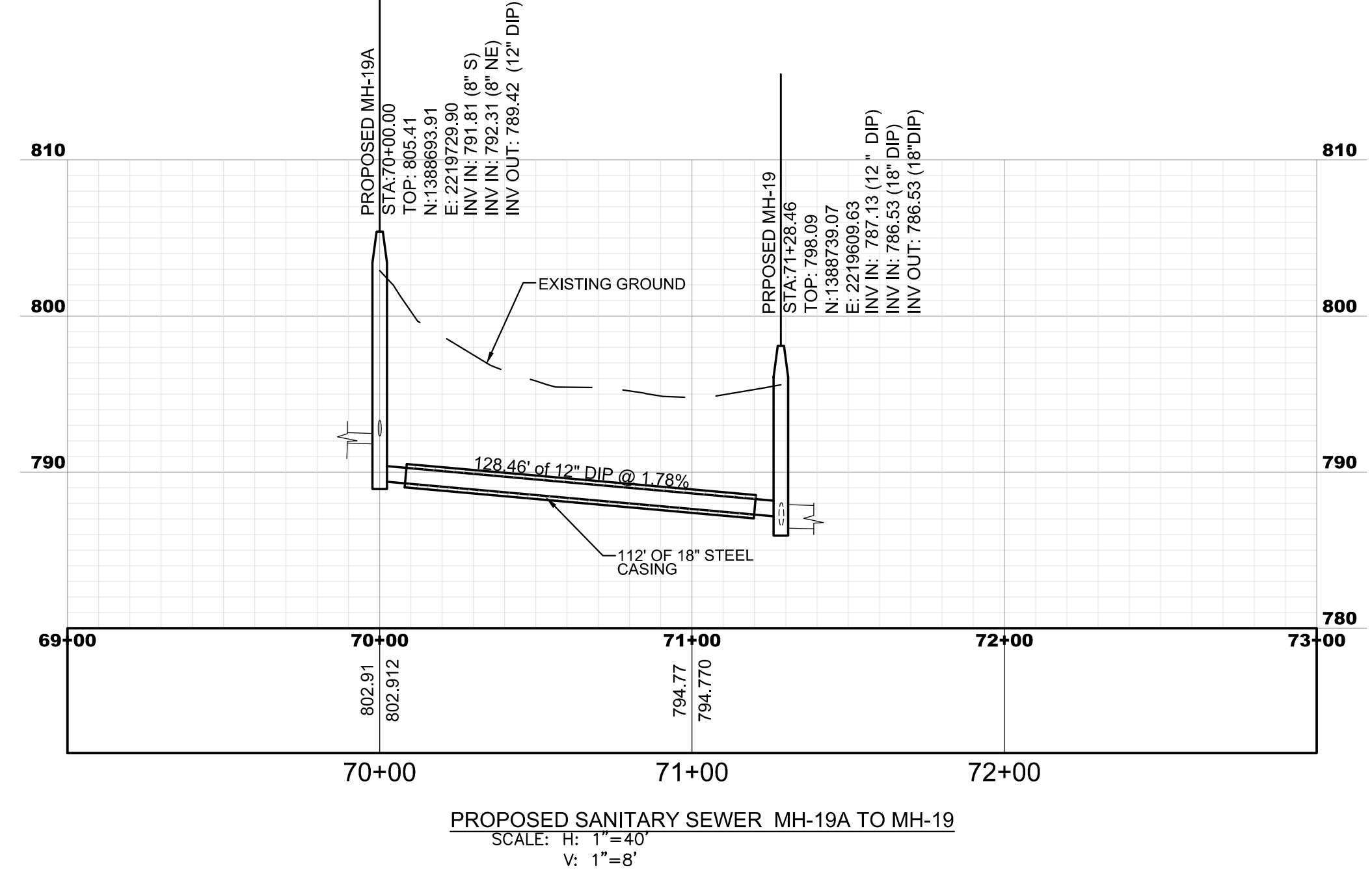
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REVISIONS		COLLIER ROAD, SANITARY SEWER IMPROVEMENTS - PHASE 2 PLAN & PROFILE-3			
N.O.	DATE	DESCRIPTION	SURVEYOR	FIELD BOOKS	L.L. DIST.
			M. HARROD		154,185,186 17TH
			DESIGNED BY	CHECKED BY	COUNTY
			R. CRAYTON, P.E.	XXXXXXXXXXXX	FULTON
			APPROVED BY	DATE	SCALE
			XXXXXXXXXXXX	03-08-2016	1"=30'
PROJECT NUMBER: XX-XX-XX-XX-X		DATE OF SURVEY: 2016		SHEET 8 OF 17	

ENGINEER OF RECORD

RELEASED FOR CONSTRUCTION

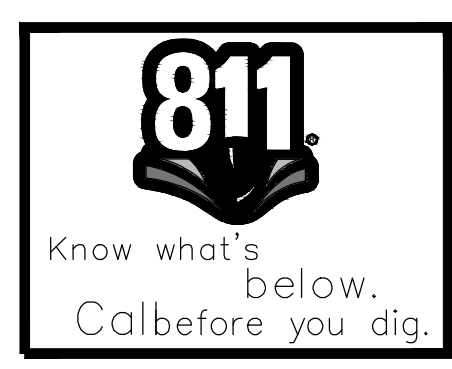


- KEYED NOTES:
- EXISTING PIPE TO BE ABANDONED IN PLACE AND GROUT FILLED. CONTRACTOR TO BULKHEAD PIPE END/ENDS. SEE PLAN SHEET PLACEMENT.
 - BULKHEAD EXISTING MANHOLE AT INLET.
 - BULKHEAD EXISTING MANHOLE AT OUTLET.
 - 20' PROPOSED SANITARY SEWER EASEMENT.
 - METHOD OF PIPE INSTALLATION, DIRECTIONAL DRILLING.
 - PROPOSED LAUNCHING AND RECEIVING PITS, ACTUAL SIZE TO BE DETERMINED BY THE CONTRACTOR.
 - 384 L.F. OF 24" STEEL CASING.
 - 209 L.F. OF 24" STEEL CASING.
 - 112 L.F. OF 18" STEEL CASING.
 - 205 SF OF CONCRETE SIDEWALK TO BE REMOVED. CONTRACTOR TO RESTORE AFTER CONSTRUCTION OF SEWER IS COMPLETED.



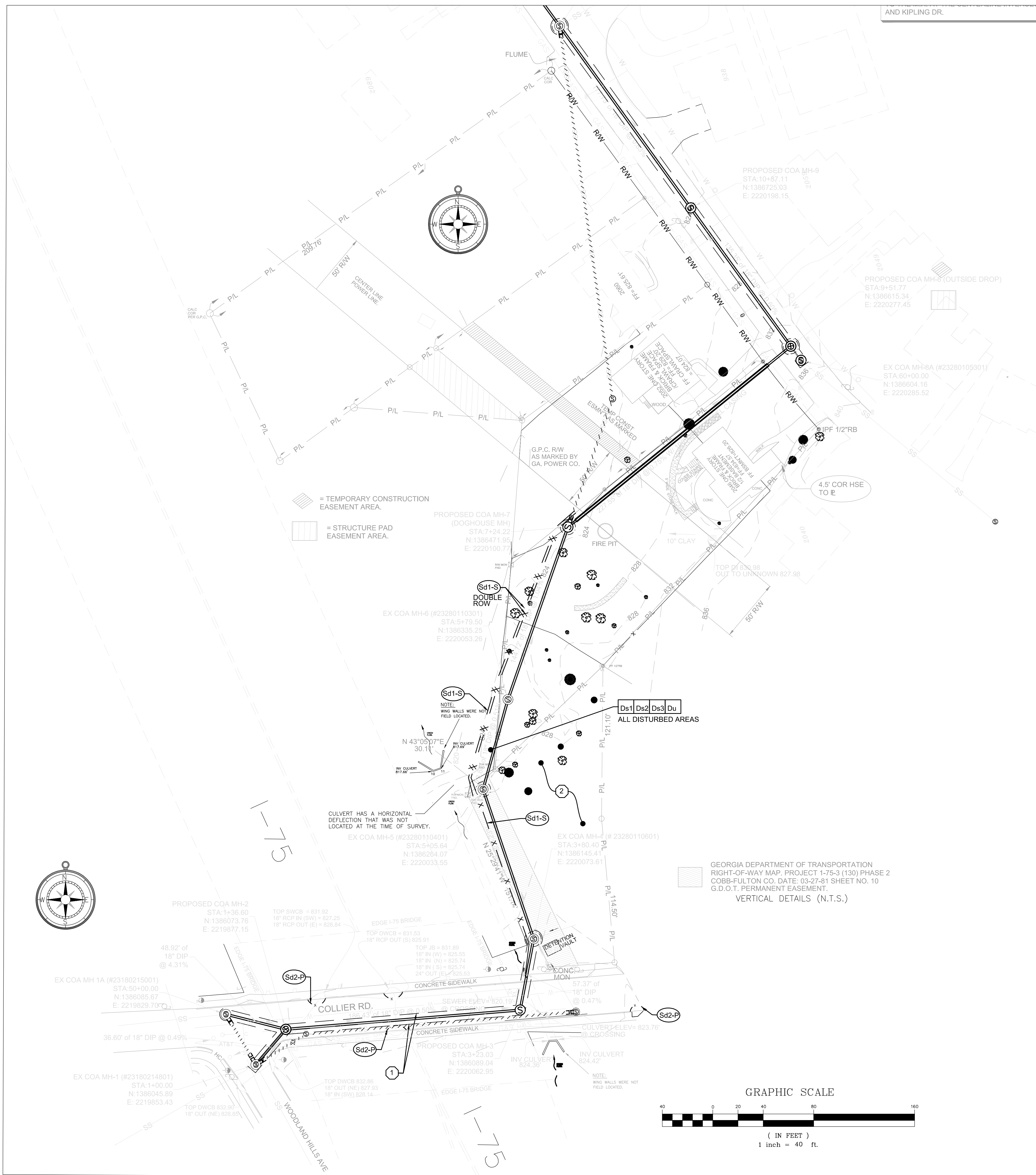
- NOTES:
- ALL UTILITY LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR IS TO FIELD VERIFY THE LOCATION, SIZE, ELEVATION AND MATERIAL OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
 - THE REMOVAL OF ASPHALT OR CONCRETE PAVEMENT SHALL BE ACCOMPLISHED BY NEATLY SAW CUTTING THE PAVEMENT SECTIONS.
 - ROAD MUST BE ACCESSIBLE TO LOCAL TRAFFIC AT ALL TIMES.
 - THE CONTRACTOR SHALL CONDUCT THE CONSTRUCTION OPERATIONS TO ALLOW FOR SAFE PASSAGE OF ALL MOTORIST AND PEDESTRIANS IN THE AREA.
 - METHOD OF PIPE INSTALLATION WILL BE BY OPEN CUT UNLESS OTHERWISE NOTED.

REVISIONS		CITY OF ATLANTA			
N.O.	DATE	DESCRIPTION	DEPARTMENT OF WATERSHED MANAGEMENT		
		OFFICE OF ENGINEERING SERVICES			
		COLLIER ROAD, SANITARY SEWER IMPROVEMENTS - PHASE 2			
		PLAN & PROFILE-4			
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE
M. HARROD	154,185,186	17TH	FULTON		1"=30'
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	
R. CRAYTON, P.E.	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	03-08-2016	
PROJECT NUMBER: XX-XX-XX-XX		DATE OF SURVEY: 2016		SHEET 9 OF 17	



ENGINEER OF RECORD

RELEASED FOR CONSTRUCTION

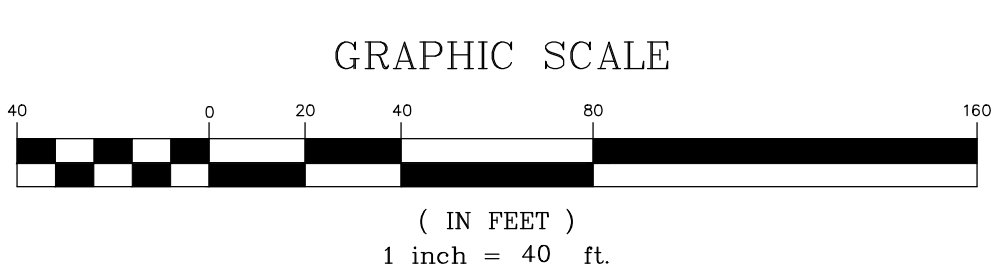
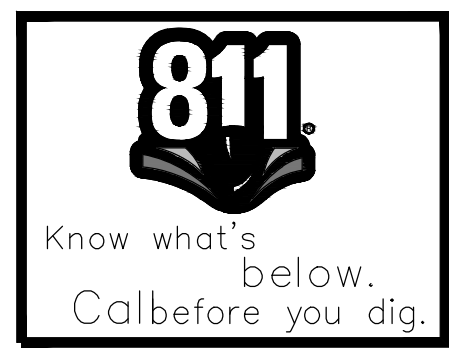


- KEYED NOTES:**
1. LIMITS OF DISTURBANCE.
 2. CONTRACTOR STAGING AREA.

NOTES:

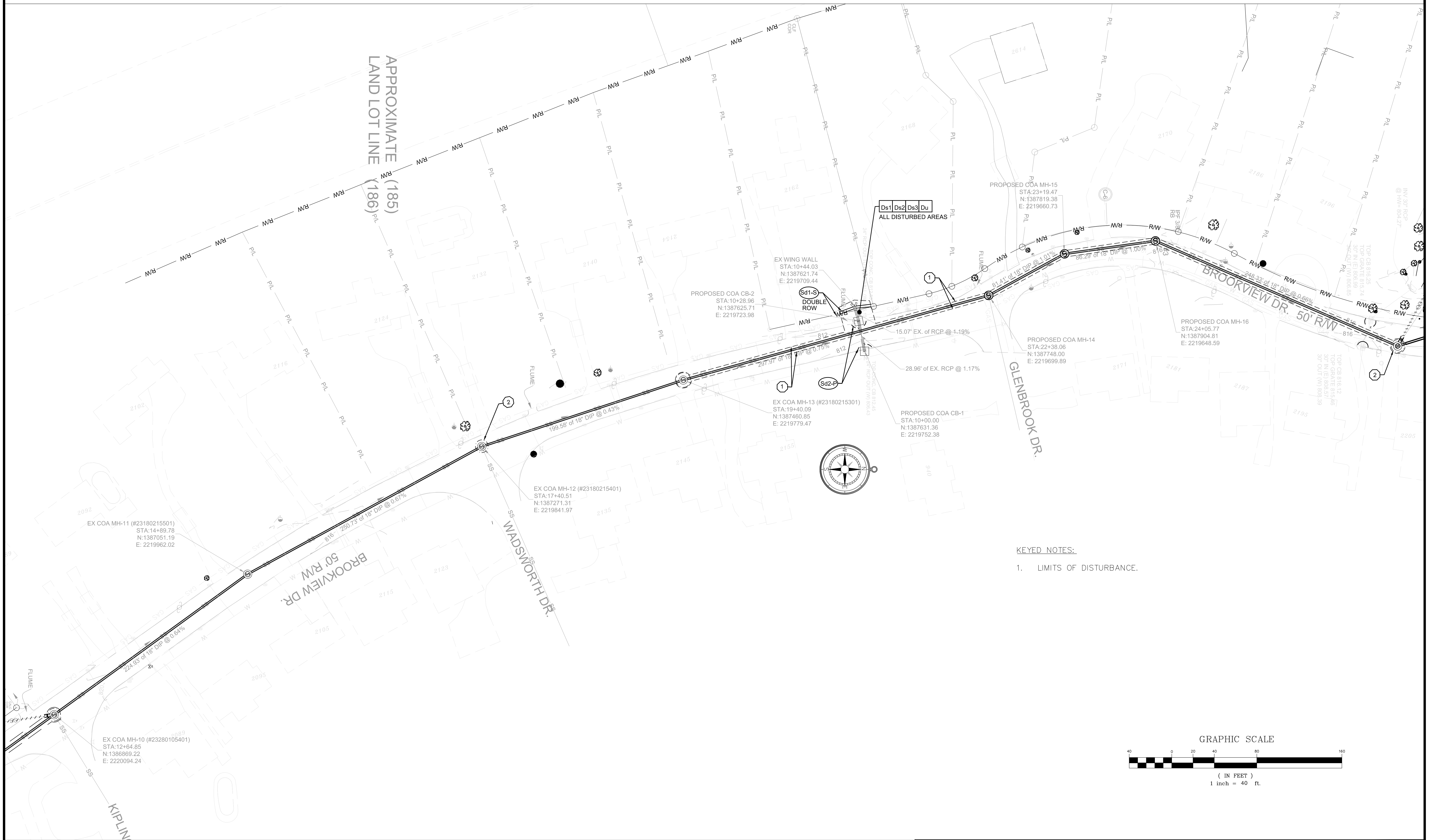
A) CONTRACTOR TO INSTALL 4' ORANGE TREE PROTECTIVE FENCING OUTSIDE OF THE SILT FENCE. SEE TREE PROTECTION, REMOVAL, AND REPLACEMENT PLAN FOR LOCATIONS.

B) POINT OF WRESTED VEGETATION IS THE TOP OF BANK UNLESS OTHERWISE NOTED.

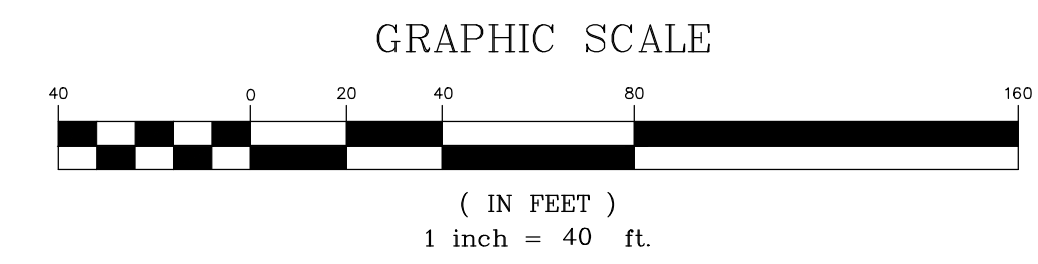


DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED																											
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>N.O.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			REVISIONS			N.O.	DATE	DESCRIPTION													CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES						
REVISIONS																											
N.O.	DATE	DESCRIPTION																									
COLLIER ROAD, SANITARY SEWER IMPROVEMENTS – PHASE 2 EROSION CONTROL PLAN-1																											
SURVEYOR M. HARROD	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE																						
DESIGNED BY R. CRAYTON, P.E.	DESIGNED BY XXXXXXXXXX	CHECKED BY XXXXXXXXXX	APPROVED BY XXXXXXXXXX	DATE 03-08-2016	154,185,186 17TH FULTON 1"=40'																						
ENGINEER OF RECORD	PROJECT NUMBER: XX-XX-XX-XX-X			DATE OF SURVEY: 2016	SHEET 10 OF 17																						

RELEASED FOR CONSTRUCTION



KEYED NOTES:
 1. LIMITS OF DISTURBANCE.



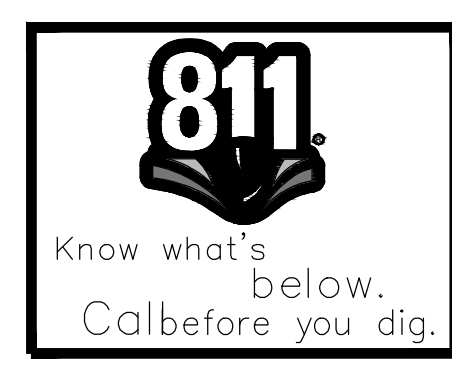
DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED

REVISIONS		
N.O.	DATE	DESCRIPTION

CITY OF ATLANTA
 DEPARTMENT OF WATERSHED MANAGEMENT
 OFFICE OF ENGINEERING SERVICES

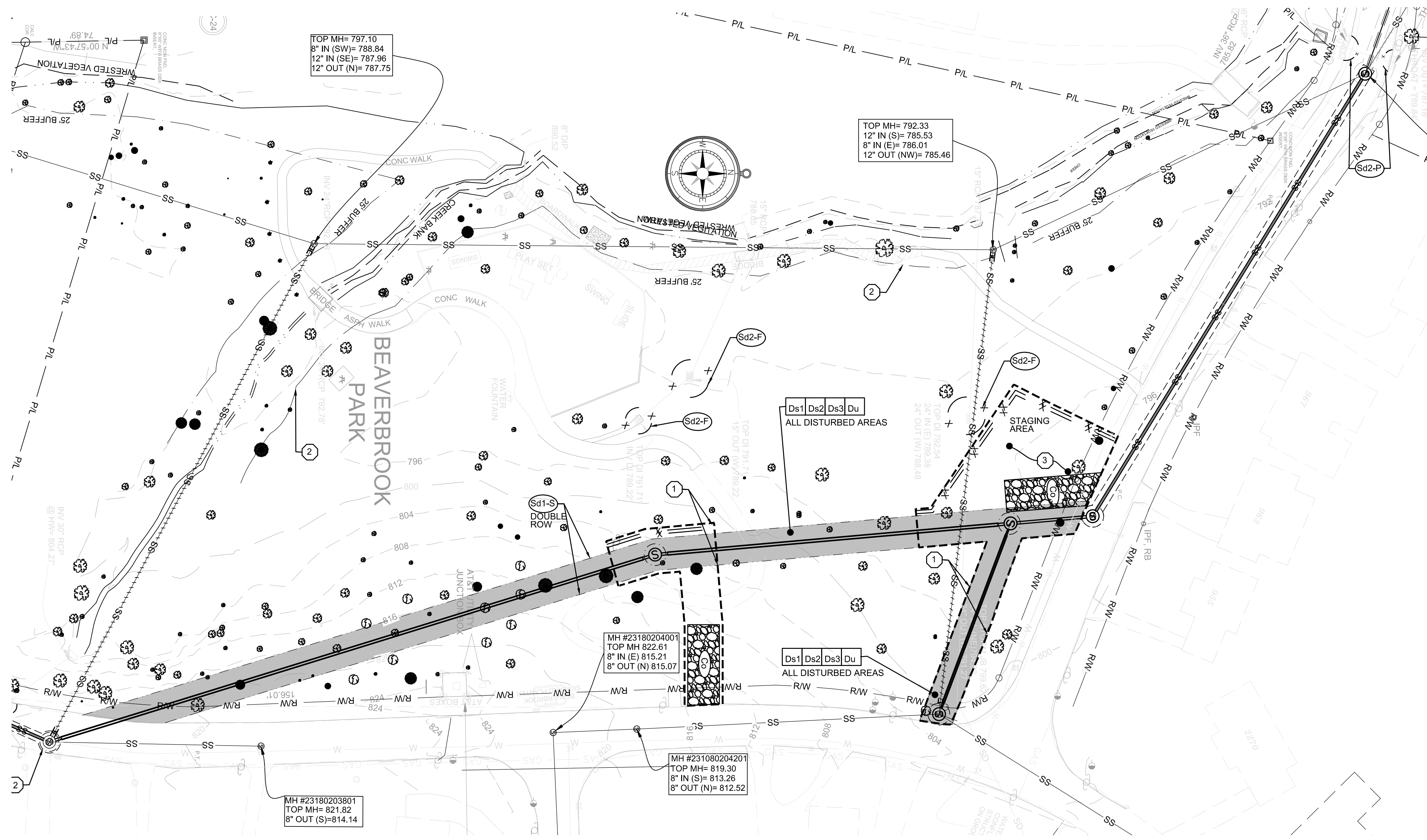
COLLIER ROAD, SANITARY SEWER IMPROVEMENTS – PHASE 2
 EROSION CONTROL PLAN-2

SURVEYOR M. HARROD	FIELD BOOKS 154,185,186	L.L. DIST. 17TH	COUNTY FULTON	SCALE 1"=30'
DRAWN BY R. CRAYTON, P.E.	DESIGNED BY XXXXXXXXXXXX	CHECKED BY XXXXXXXXXXXX	APPROVED BY XXXXXXXXXXXX	DATE 03-08-2016
PROJECT NUMBER: XX-XX-XX-XX-X		DATE OF SURVEY: 2016		SHEET 11 OF 17



ENGINEER OF RECORD

RELEASED FOR CONSTRUCTION



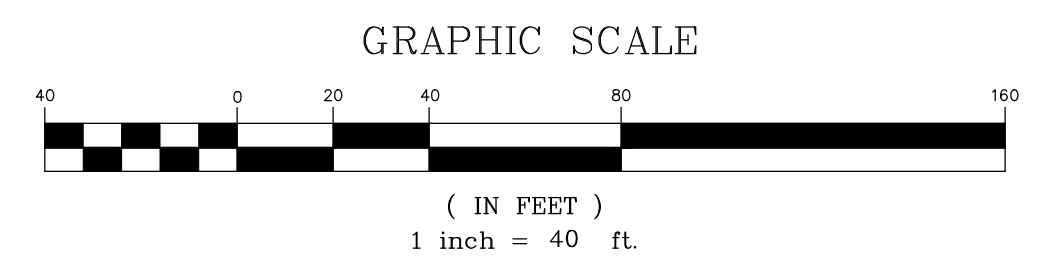
TOP MH= 797.10
8" IN (SW)= 788.84
12" IN (SE)= 787.96
12" OUT (N)= 787.75

TOP MH= 792.33
12" IN (S)= 785.53
8" IN (E)= 786.01
12" OUT (NW)= 785.46

MH #23180204001
TOP MH= 822.61
8" IN (E) 815.21
8" OUT (N) 815.07

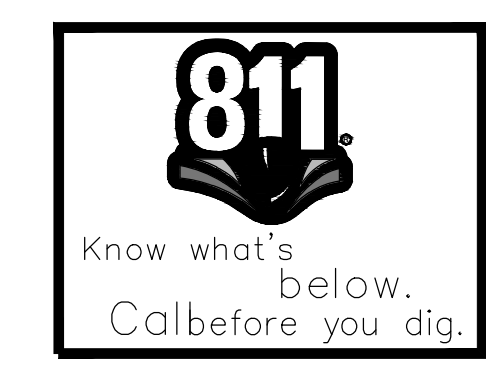
MH #231080204201
TOP MH= 819.30
8" IN (S)= 813.26
8" OUT (N)= 812.52

MH #23180203801
TOP MH= 821.82
8" OUT (S)= 814.14



- KEYED NOTES:
1. LIMITS OF DISTURBANCE.
 2. 25" BUFFER.
 3. CONTRACTOR STAGING AREA.

- NOTES:
- A) CONTRACTOR TO INSTALL 4' ORANGE TREE PROTECTIVE FENCING OUTSIDE OF THE SILT FENCE. SEE TREE PROTECTION, REMOVAL, AND REPLACEMENT PLAN FOR LOCATIONS.
 - B) THE TOTAL DISTURBED AREA THROUGH THE BEAVER BROOK PARK IS 14,209.87 S.F./0.33 ACRES.
 - C) CONTRACTOR MOVEMENT SHALL BE RESTRICTED TO STAY WITHIN THE LIMITS OF CONSTRUCTION AT ALL TIMES.



DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES						
N.O.	DATE	DESCRIPTION							
COLLIER ROAD, SANITARY SEWER IMPROVEMENTS – PHASE 2 EROSION CONTROL PLAN-3									
SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE				
M. HARROD	154,185,186	17TH	FULTON	1"=30'					
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE					
R. CRAYTON, P.E.	XXXXXXXXXX.	XXXXXXXXXX	XXXXXXXXXXXX	03-08-2016					
ENGINEER OF RECORD		PROJECT NUMBER: XX-XX-XX-XX-X		DATE OF SURVEY: 2016		SHEET 12 OF 17			

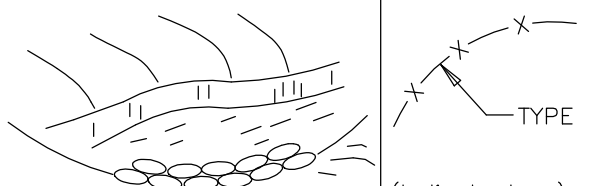
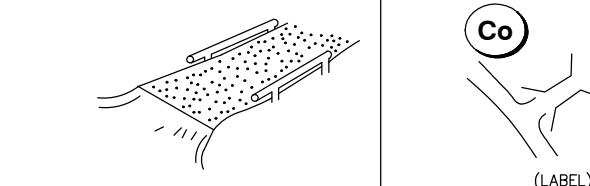
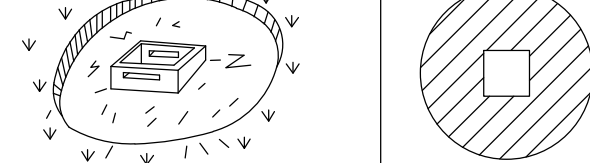
NOTES:

- 1) WATERS OF THE STATE EXIST ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- 2) NO WETLANDS EXIST ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- 3) TOTAL DISTURBED AREA IS 36,802.25 SF/.84 ACRES.

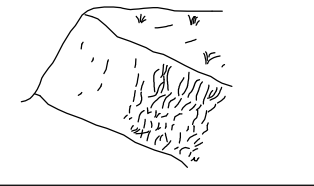

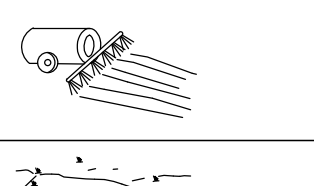
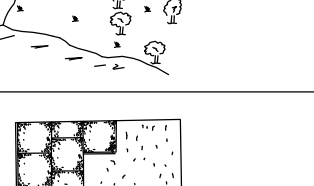
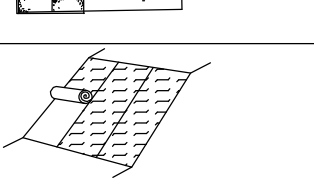

DISTURBED AREA CALCULATIONS:

- 2,756.05 S.F. – TENNYSON DRIVE
- 23,593.28 S.F. – BEAVER BROOK PARK
- 7,443.02 S.F. – BROOKVIEW DRIVE
- 113.10 S.F. – 2046 BROOKVIEW DRIVE
- 113.10 S.F. – 927 COLLIER RD
- 2783.70 S.F. – COLLIER RD
- 36,802.25 S.F./0.84 ACRES

STRUCTURAL PRACTICES

CODE	PRACTICE	MAP SYMBOL	DESCRIPTION
Sd1	SEDIMENT BARRIER	 (Indicate type)	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 sediment fence. The barriers are usually temporary and inexpensive.
Co	CONSTRUCTION EXIT	 (LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd2	INLET SEDIMENT TRAP	 (LABEL)	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.

VEGETATIVE MEASURES

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing a 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 TEMPORARY VEGETATION)		Ds2	Establishing temporary vegetative cover with fast growing seedlings on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on land-disturbing activities. Prevent the movement of dust from exposed soil surfaces, airborne substances that may be harmful to health.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	Establishing permanent vegetative cover such as trees, shrubs, vines, grasses, soil or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Ss	EROSION CONTROL MATTING AND BLANKETS		Ss	The installation of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.

CONSTRUCTION SCHEDULE: EXPECTED DURATION = 5 MONTHS					
DAYS	1	2	3	4	5
MOBILIZATION	█				
INSTALL AND MAINTAIN EROSION CONTROLS	█	█	█	█	█
SEWER & STORM PIPE INSTALLATION				█	█
FINAL STABILIZATION FOR DISTURBED AREAS					█

SPECIES	(FOR TEMPORARY)		FERTILIZER (LBS./1000 S.F.)	
	RATE/1000 S.F.	DATES	LIME	10-10-10
RYEGRASS, ANNUAL	1.5 – 2 LBS.	8/1-4/15	NOT REQUIRED	16
*WEEPING LOVEGRASS	2-3 LBS	3/15-6/15	NOT REQUIRED	16

SPECIES	(FOR PERMANENT)		FERTILIZER (LBS./ACRE)	
	RATE/1000 S.F.	DATES	LIME	10-10-10
SEE SHEET 7 FOR SPECIAL SEEDING SPECIFICATIONS FOR GREENWAY AREAS				

VEGETATIVE PLAN *HYDROSEED ON ALL 2:1 (H:V) SLOPES.

NOTE: (1) TEMPORARY STABILIZATION (MULCHING ONLY) WHEN SEEDING WILL NOT HAVE A SUITABLE GROWING SEASON MAY BE ACCOMPLISHED WITH: STRAW OR HAY-2.5 TONS/ACRE WOOD WASTE, BARK, SAWDUST-2-3" DEEP (APPROX. 6-9 TONS/ACRE)

(2) ALL CUT & FILL SLOPES SHALL BE SURFACE ROUGHED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.

(3) ALL FILL SLOPES SHALL HAVE SILT FENCE AT TOE OF SLOPES.

(4) MULCHING RATE FOR PERMANENT GRASSING – APPLY DRY STRAW AT THE RATE OF TWO TONS PER ACRE. APPLY DRY HAY AT THE RATE OF 2 1/2 TONS PER ACRE.

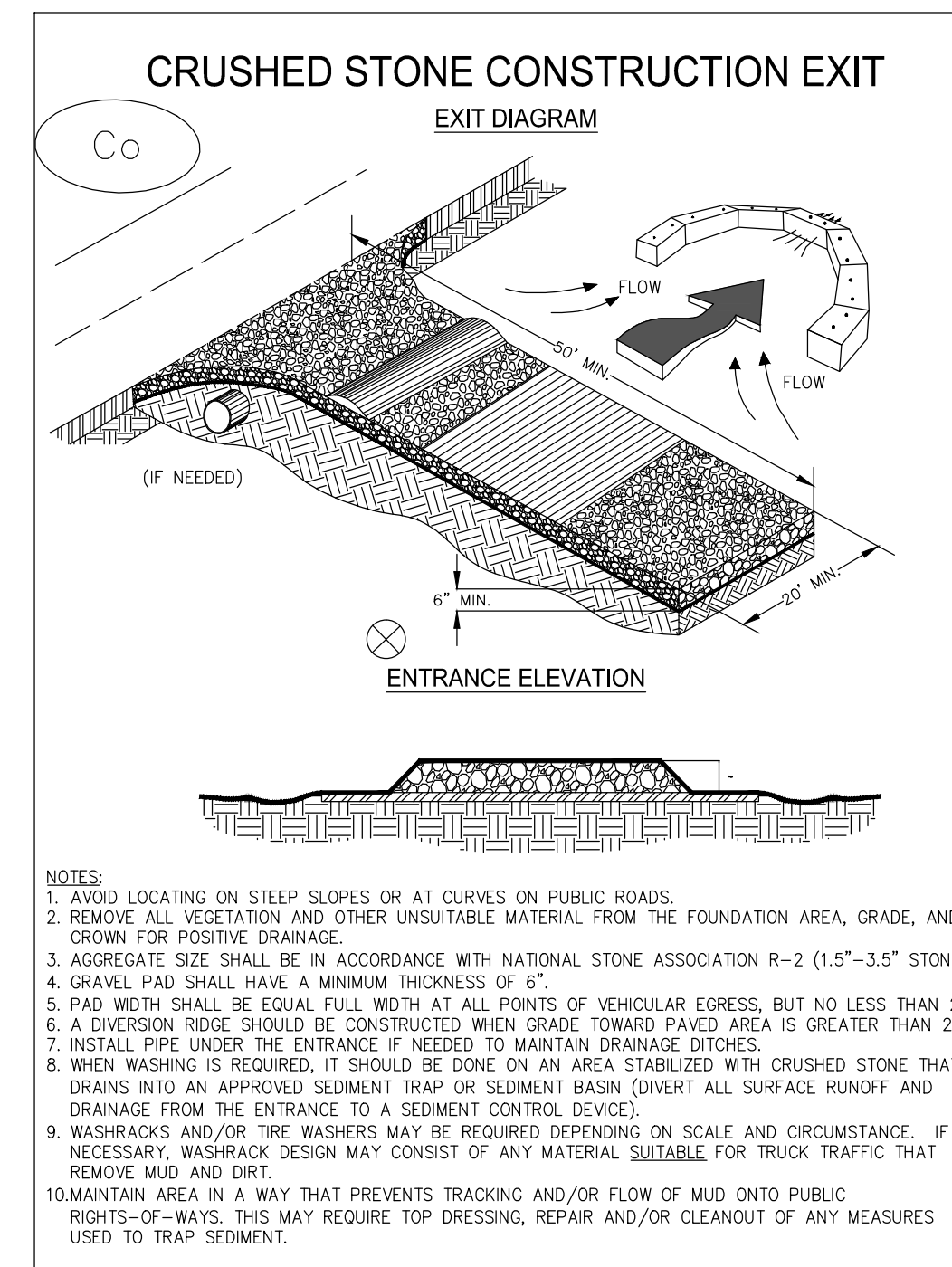
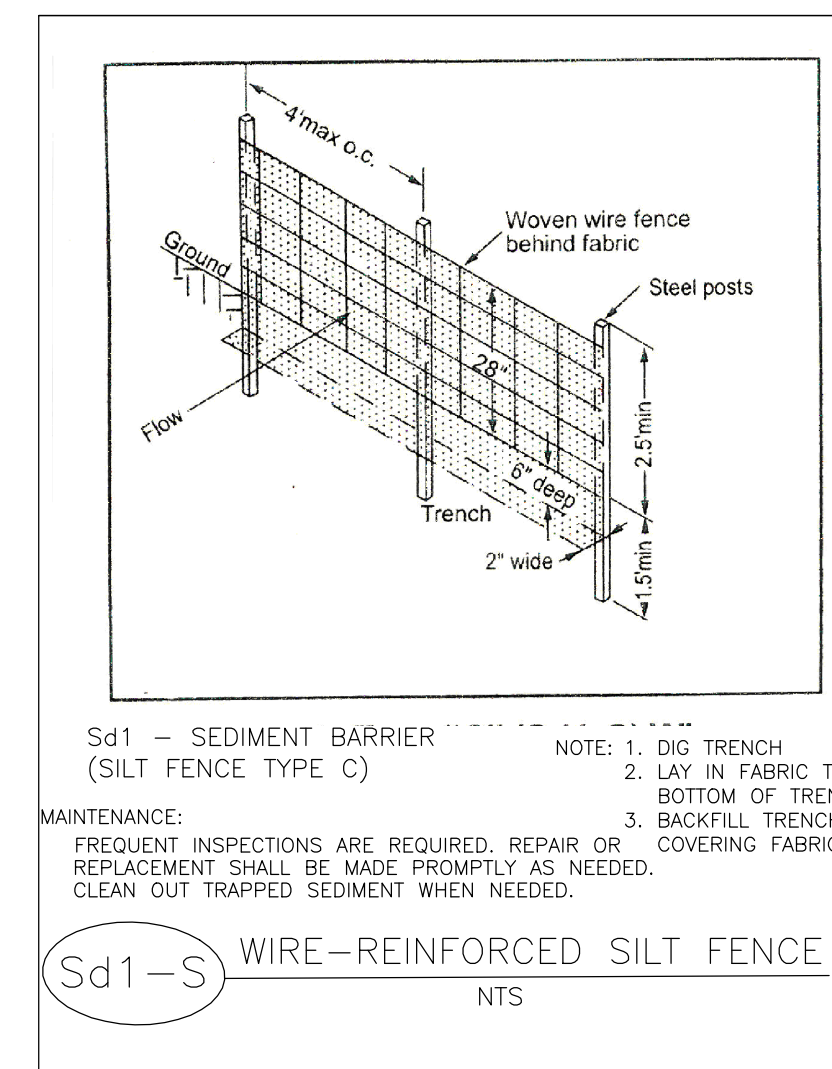
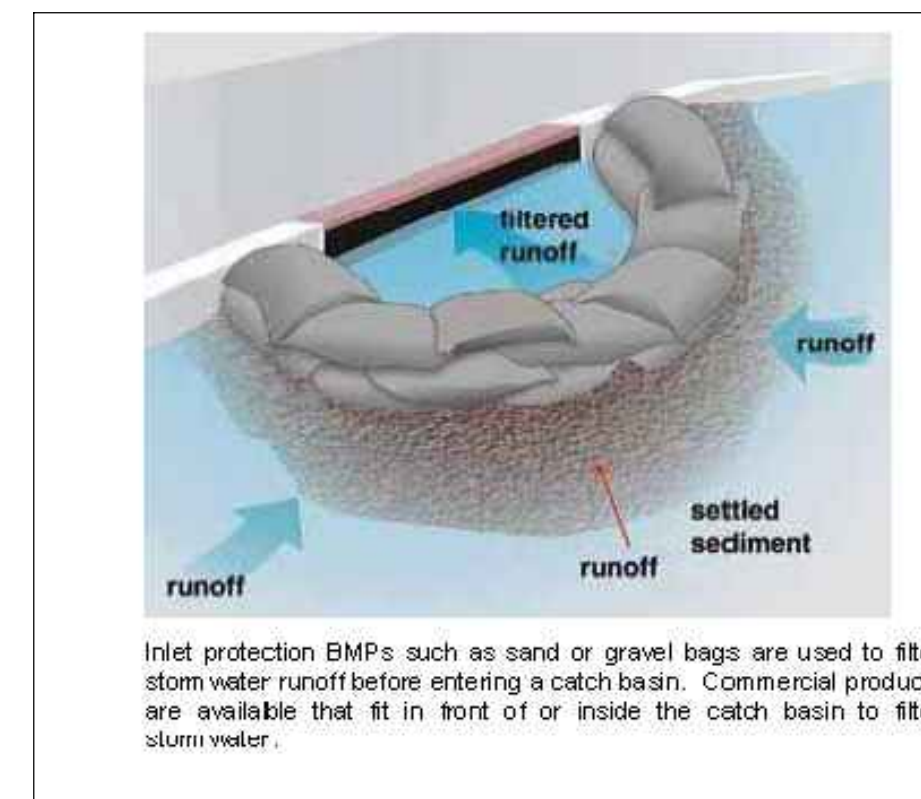
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

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

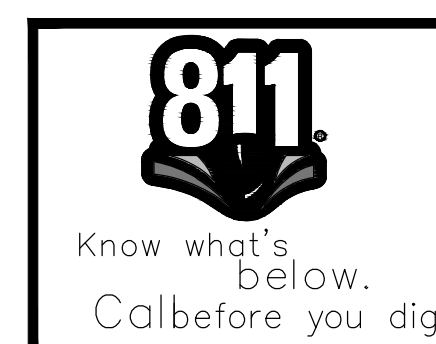
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZE MULCH OR TEMPORARY SEEDING.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED IN THE 25 FOOT UNDISTURBED STREAM



NOTES:

1. EROSION CONTROL MEASURES SHALL BE AS A MINIMUM IN CONFORMANCE WITH THE LATEST EDITION OF "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" BY THE GA. SOIL AND WATER CONSERVATION COMMISSION.
2. ANY AND ALL SILT LEAVING THE SITE IS THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
3. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.
4. SILT BARRIERS SHALL BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
5. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, LATEST EDITION.
6. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION CONTROL DEVICES MUST BE USED AS REQUIRED.
7. PRIOR TO CONSTRUCTION, CONTRACTOR WILL DETERMINE A STABILIZED CONSTRUCTION ENTRANCE. CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE.
8. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
9. ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER THE ESTABLISHMENT OF THE CONSTRUCTION ENTRANCES/ EXITS.
10. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION.
11. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
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.
13. SEDIMENT/EROSION CONTROL DEVICES SHALL BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE SHALL BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
14. ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
15. DISTURBED AREAS LEFT IDLE FOR TWO TO FOUR WEEKS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION (Ds2). DISTURBED AREAS LEFT IDLE FOR FOUR WEEKS OR MORE WILL BE ESTABLISHED TO PERMANENT VEGETATION (Ds3). ALL AREAS BROUGHT TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION WITHIN TWO WEEKS. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
16. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHALL BE UNIFORMLY SPREAD OVER SEEDING AREA WITHIN 24 HOURS OF SEEDING.
17. "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."
18. CONTRACTOR WILL PERFORM UTILITY INSTALLATION ACTIVITIES IN SECTIONS AND OF RELATIVELY SHORT PERIOD OF TIME TO MINIMIZE DISTURBANCE OF SOILS. CONTRACTOR WILL RESTORE PAVEMENT AND OTHER EXISTING INFRASTRUCTURE IF DAMAGED DURING CONSTRUCTION.
19. THERE ARE NO DISCHARGES OF STORM WATER OR SANITARY WASTE FROM THE CONSTRUCTION ACTIVITIES OF THIS PROJECT INTO IMPAIRED STREAM SEGMENTS.
20. SOIL SERIES INCLUDED WITHIN PROJECT SITE: URBAN LAND-RION COMPLEX (Ure), CONGAREE (CpA) AND URBAN LAND-GROVER-MOUNTAIN (Uge).
21. "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.
22. THE CITY'S DESIGNEE WILL VERIFY ADEQUATE COVER (100% COVER, 70% DENSITY) OF PERMANENT STABILIZATION(Ds3, Ds4)."
23. "SILT FENCES SHALL NOT BE PLACED IN STREAM BUFFERS OR FLOOD PLAINS, UNLESS UTILIZED FOR THE CONSTRUCTION OF AN EXEMPT ACTIVITY (I.E. ROADWAY 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."
24. "SUBCONTRACTORS INVOLVED WITH LAND DISTURBANCE ACTIVITIES SHALL MEET THE EDUCATION REQUIREMENTS (LEVEL 1) DESCRIBED IN O.C.G.A 12-7-19(A)(2)."



DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED						
REVISIONS			CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES			
NO.	DATE	DESCRIPTION				
			COLLIER RD SANITARY SEWER IMPROVEMENTS – PHASE 2 EROSION CONTROL NOTES			
SURVEYOR	FIELD BOOKS	L.L. DIST.	COUNTY	SCALE		
M. HARROD	185	17TH	FULTON	NO SCALE		
DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE		
R. CRAYTON, P.E.	R. CRAYTON, P.E.	S. AIYEJORUN, P.E.	N. JOHNSON, P.E.	10-01-2016		
PROJECT NUMBER: XX-XX-XX-XX-X			DATE OF SURVEY: 2016		SHEET 13 OF 17	

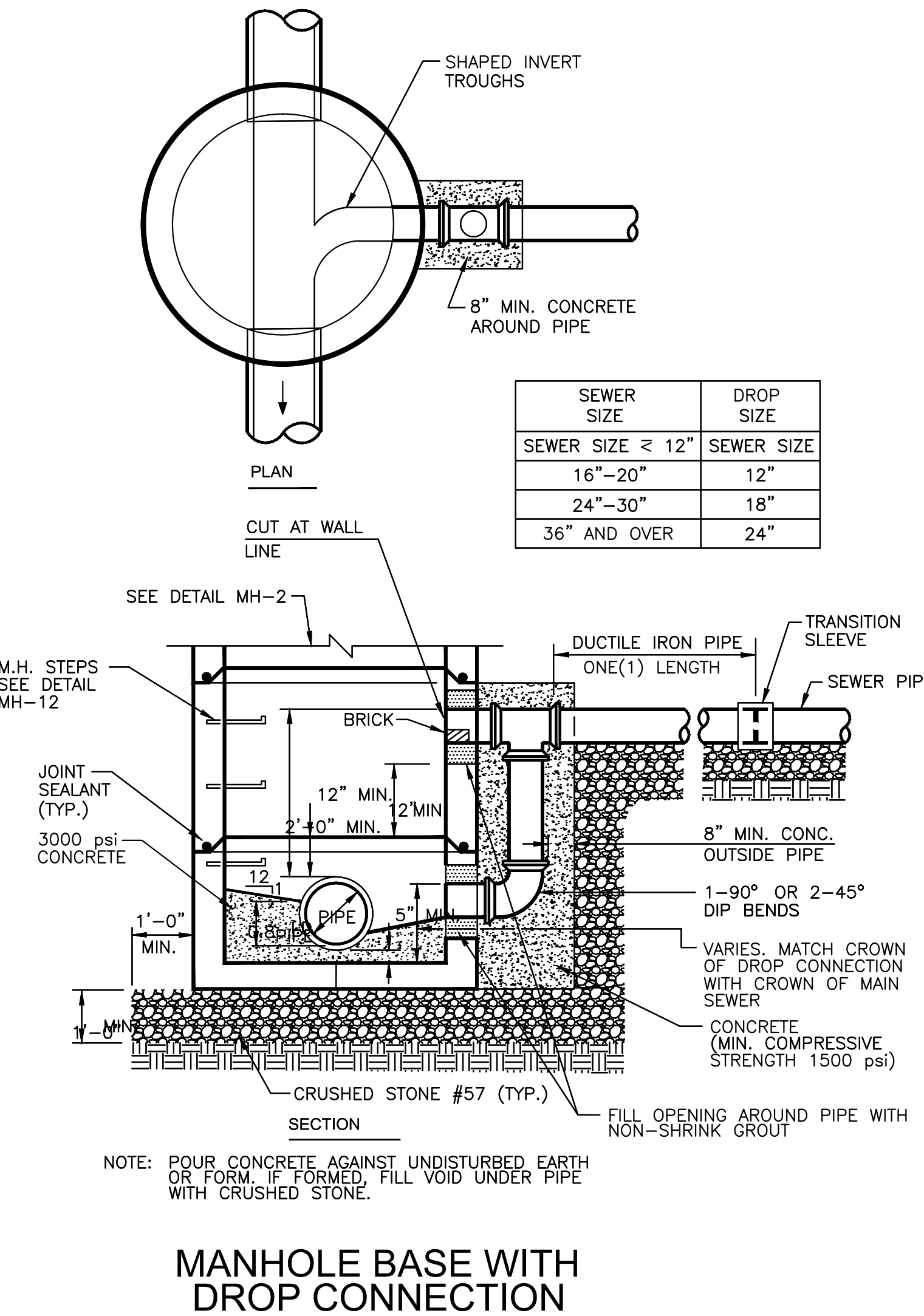
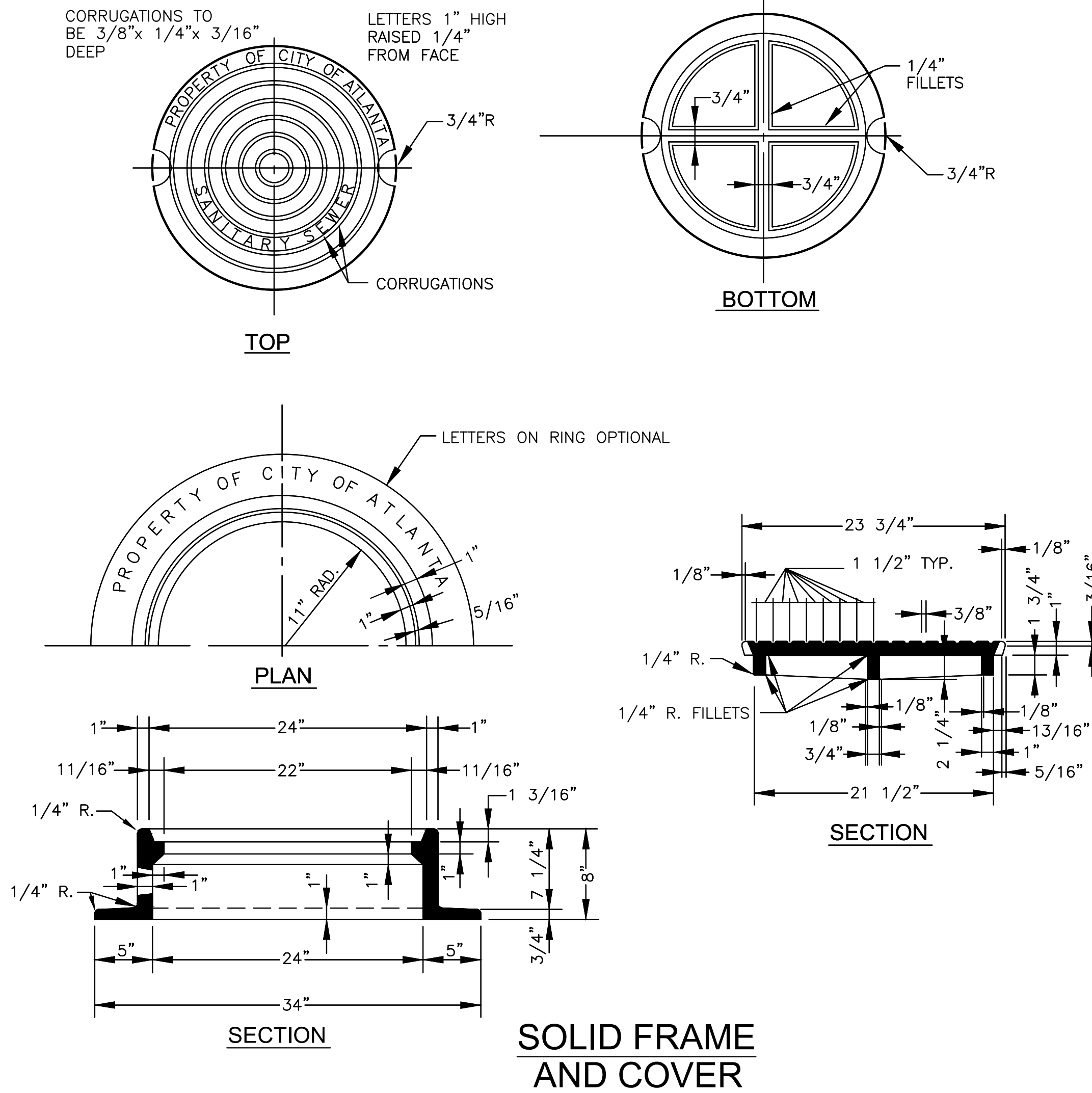
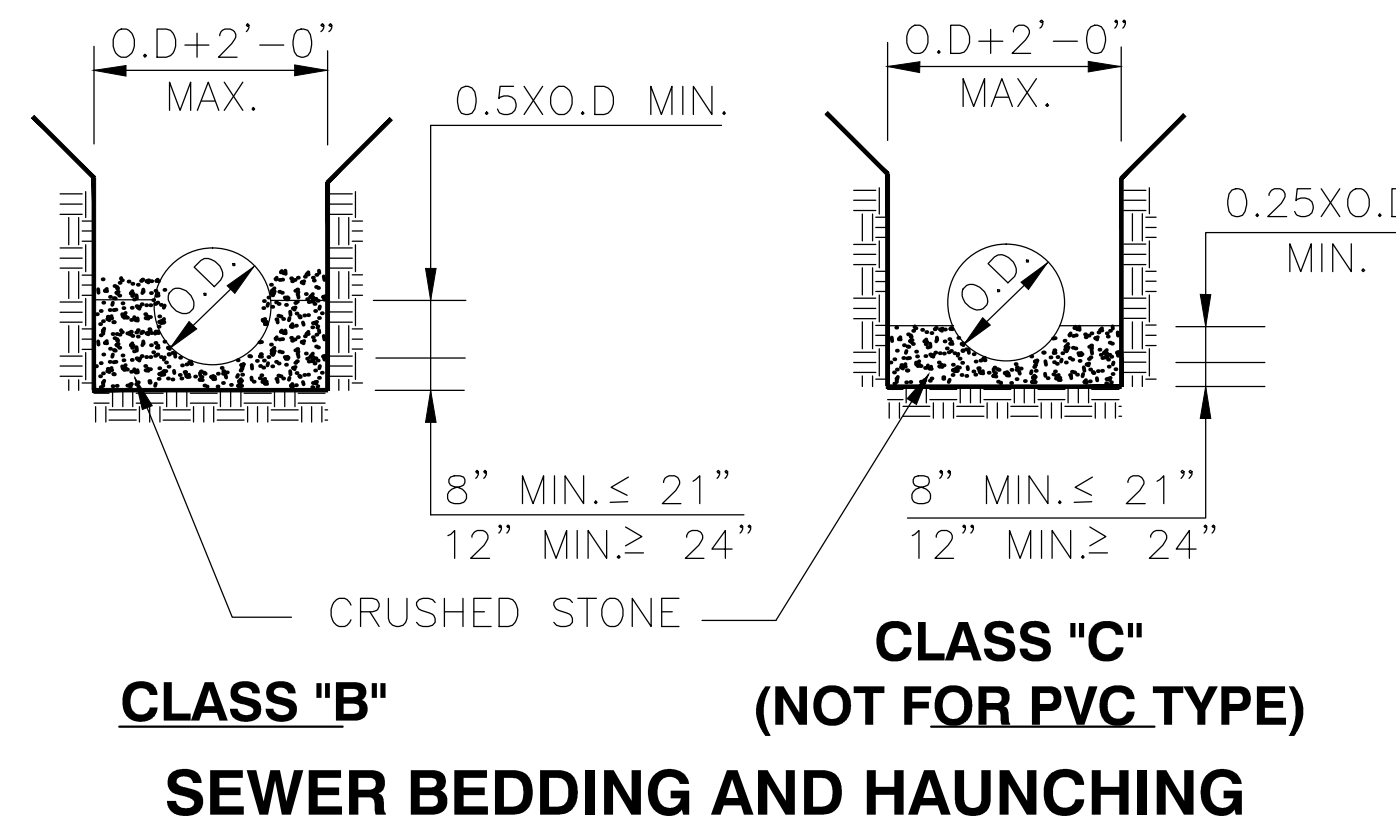
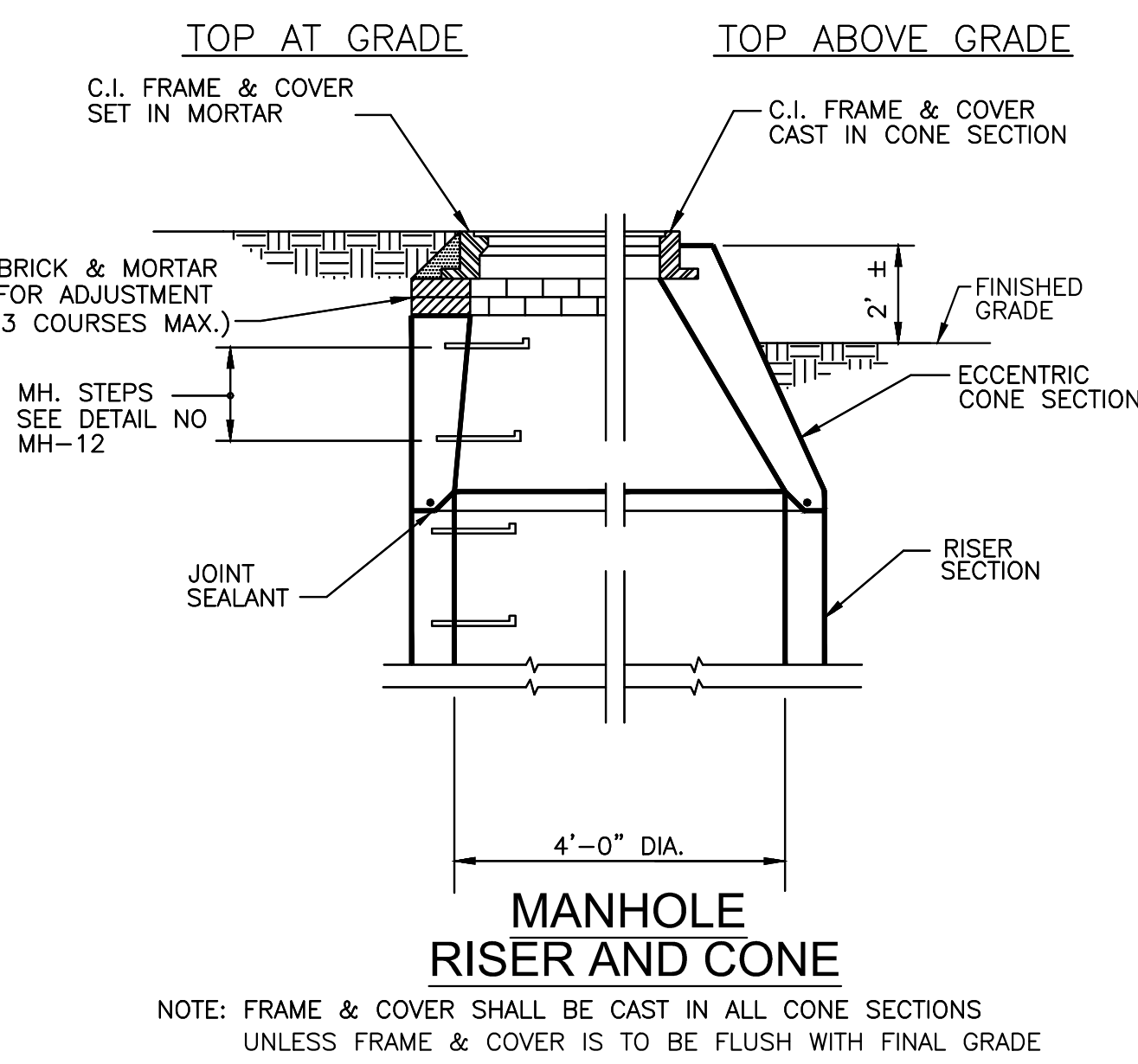
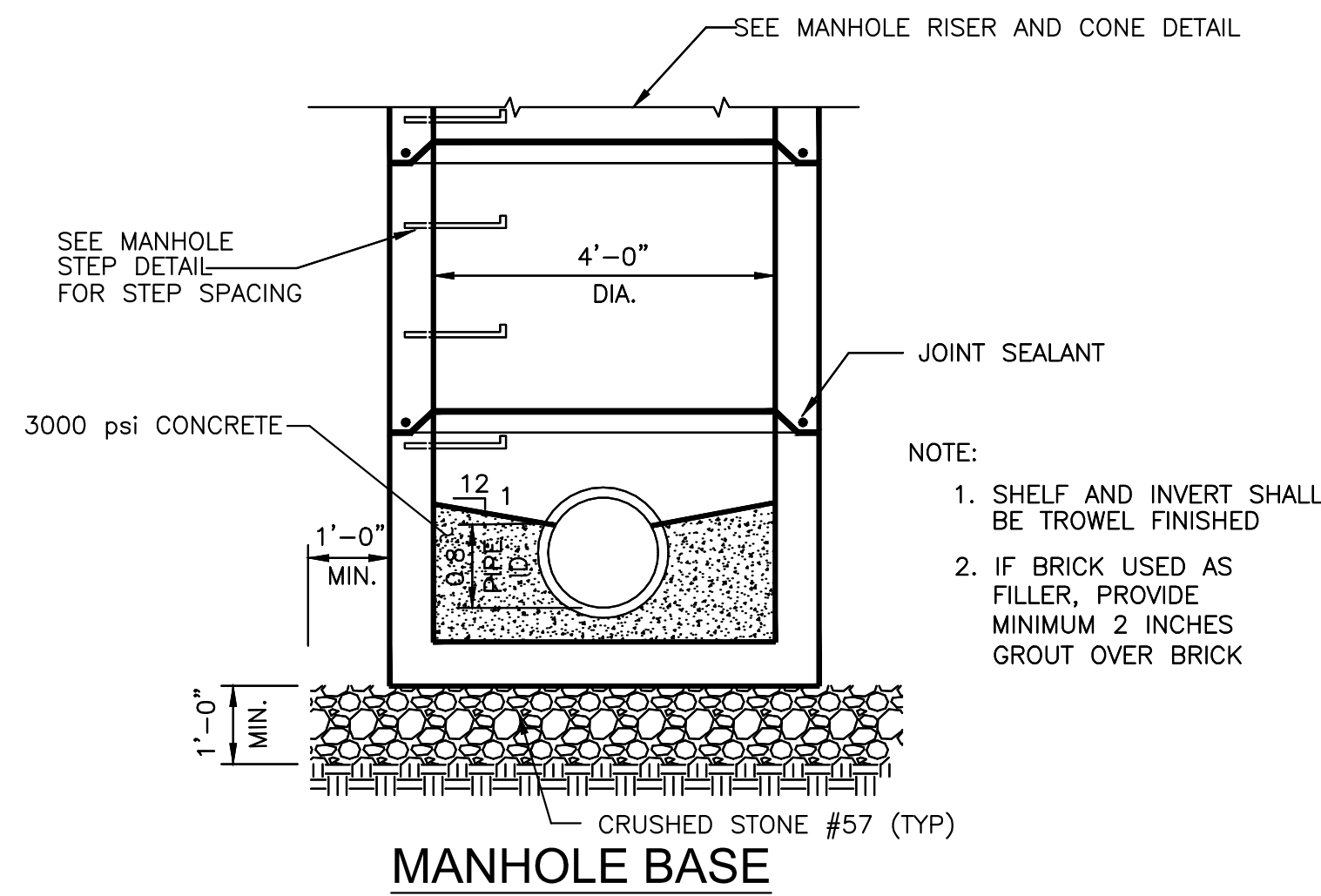
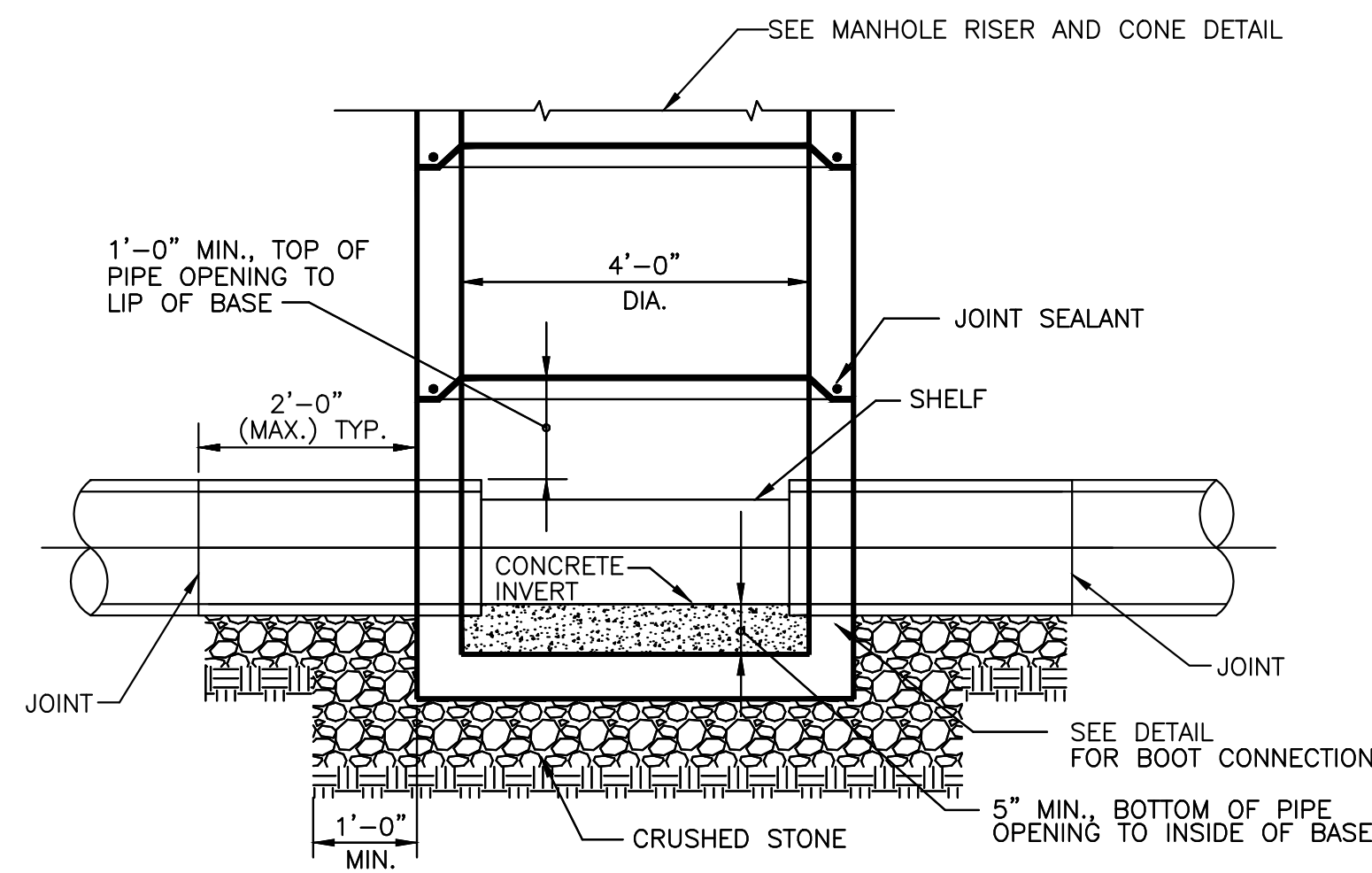
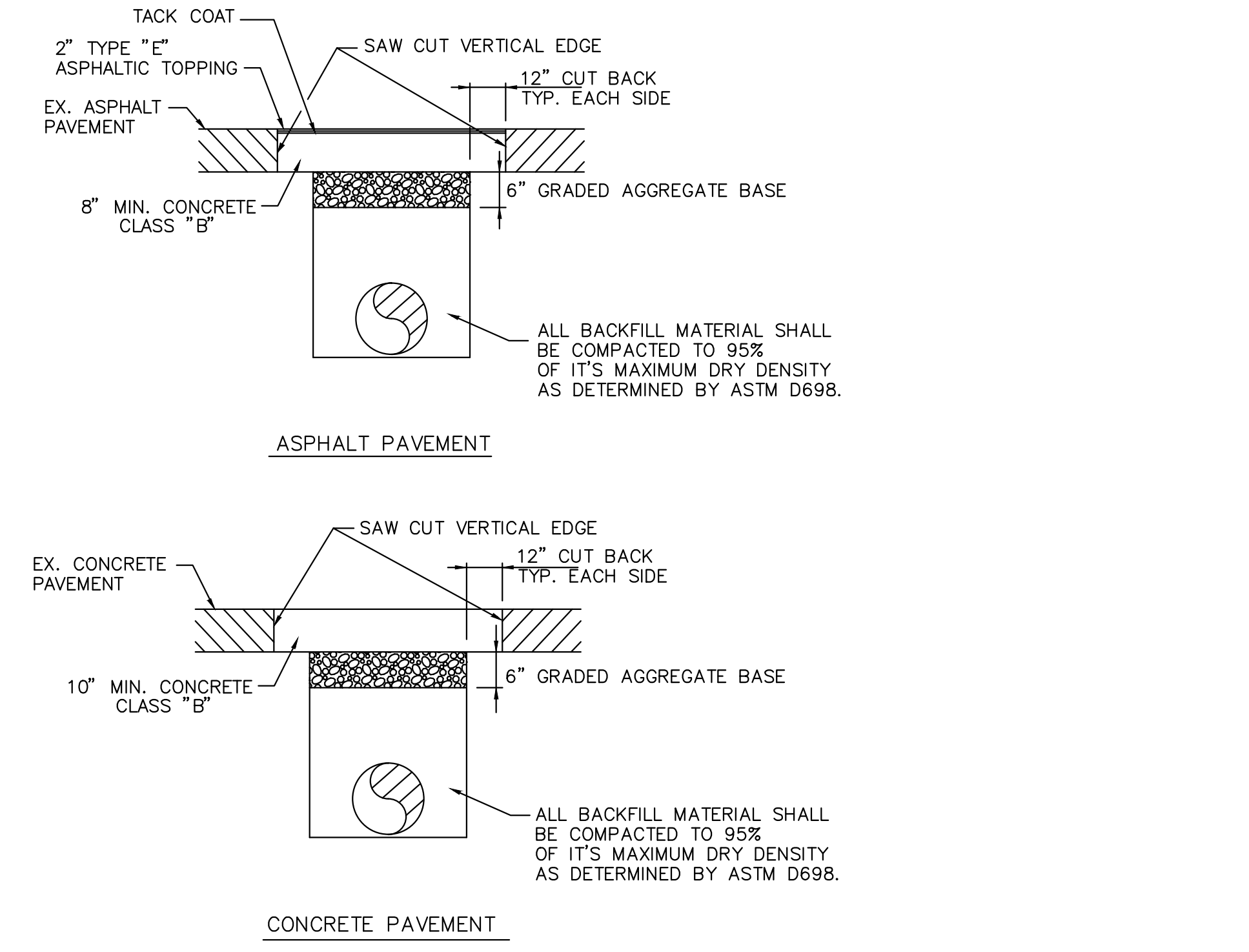
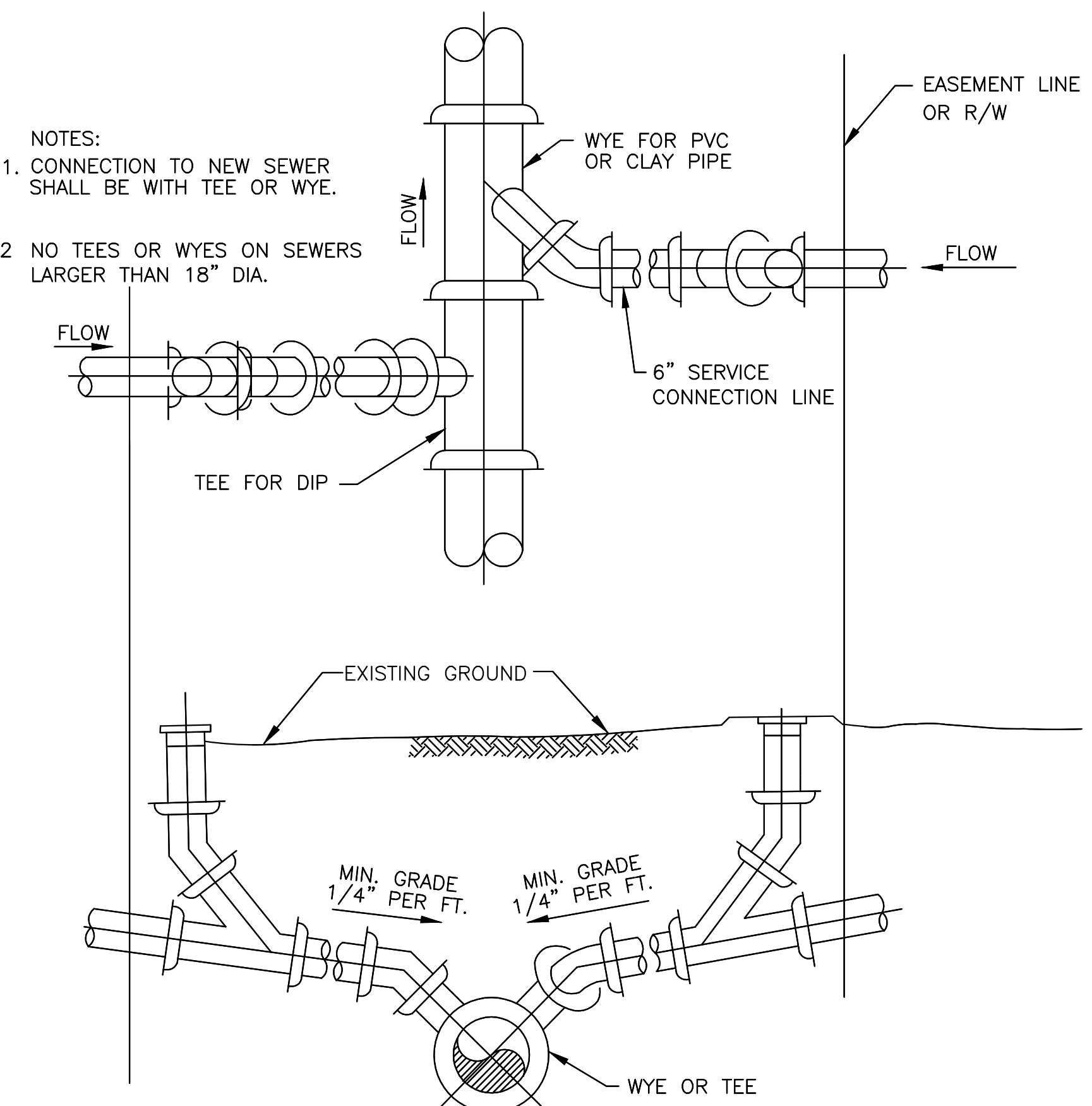
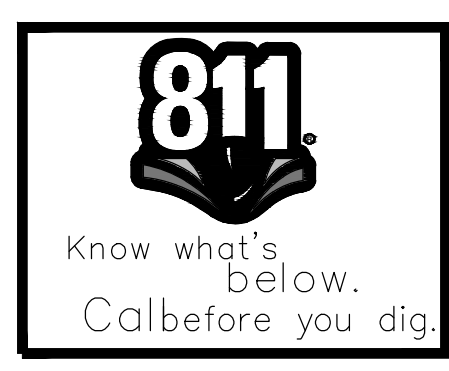


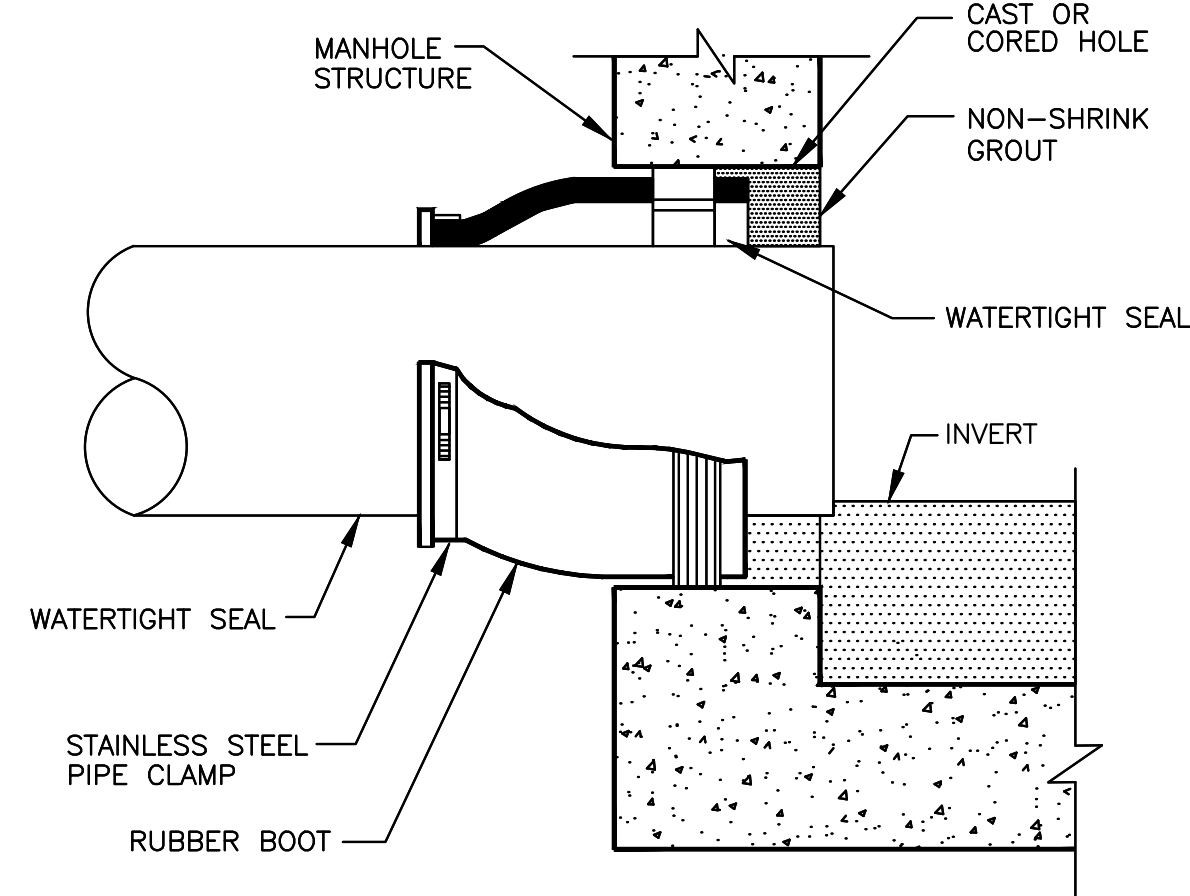
Table with 2 columns: Sewer Size and Drop Size. Rows include size ranges like 16"-20" and 24"-30" with corresponding drop sizes of 12", 18", and 24".



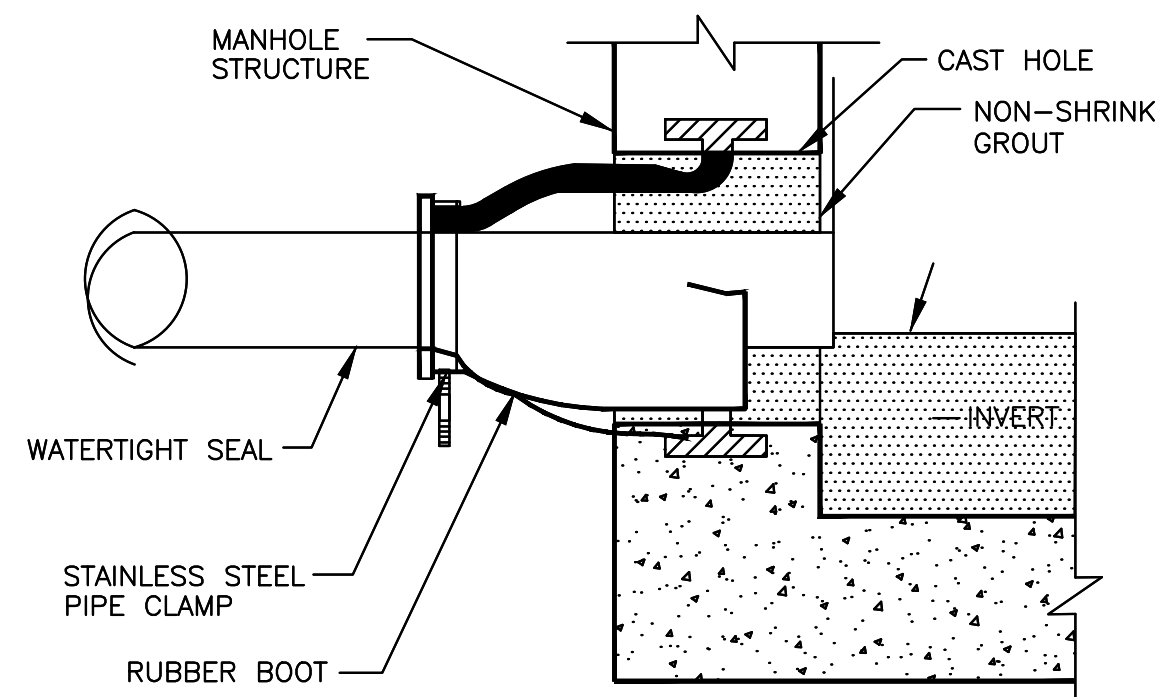
SERVICE CONNECTION ON NEW SEWERS



REVISIONS table, CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES, COLLIER ROAD SANITARY SEWER IMPROVEMENTS - PHASE 2 STANDARD DETAILS - 1, SURVEYOR M. HARROD, DRAWN BY R. CRAYTON, P.E., PROJECT NUMBER: XX-XX-XX-XX-X, DATE OF SURVEY: 2016, SHEET 14 OF 17.



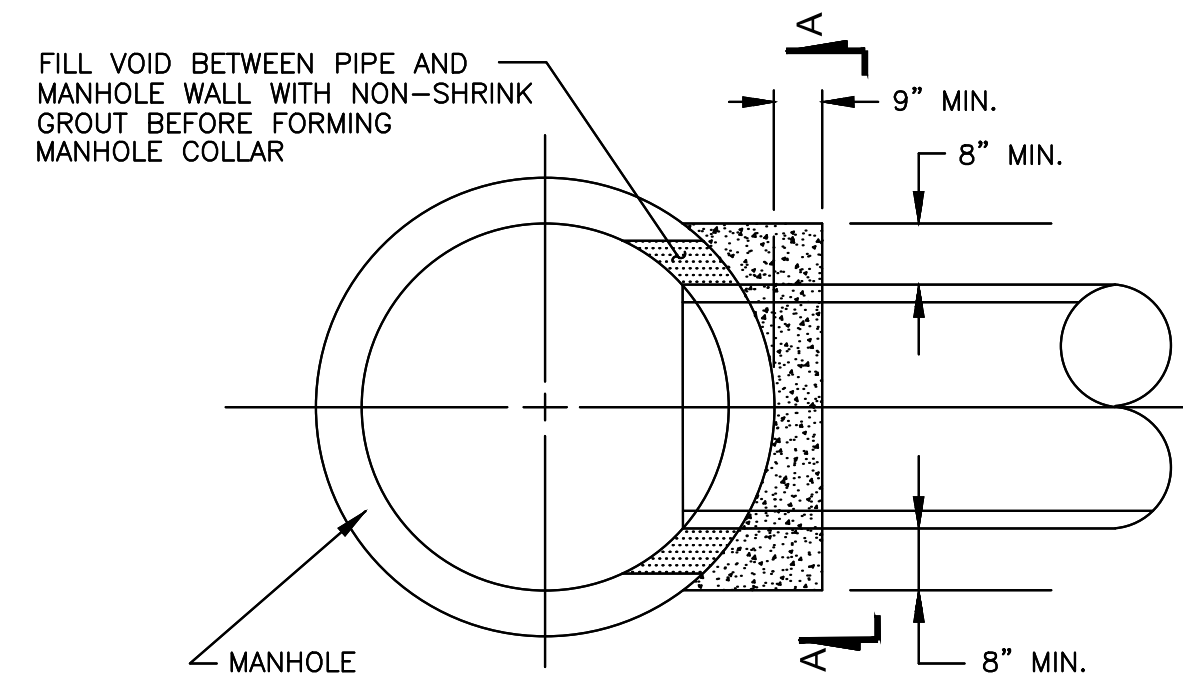
TYPE I



TYPE II

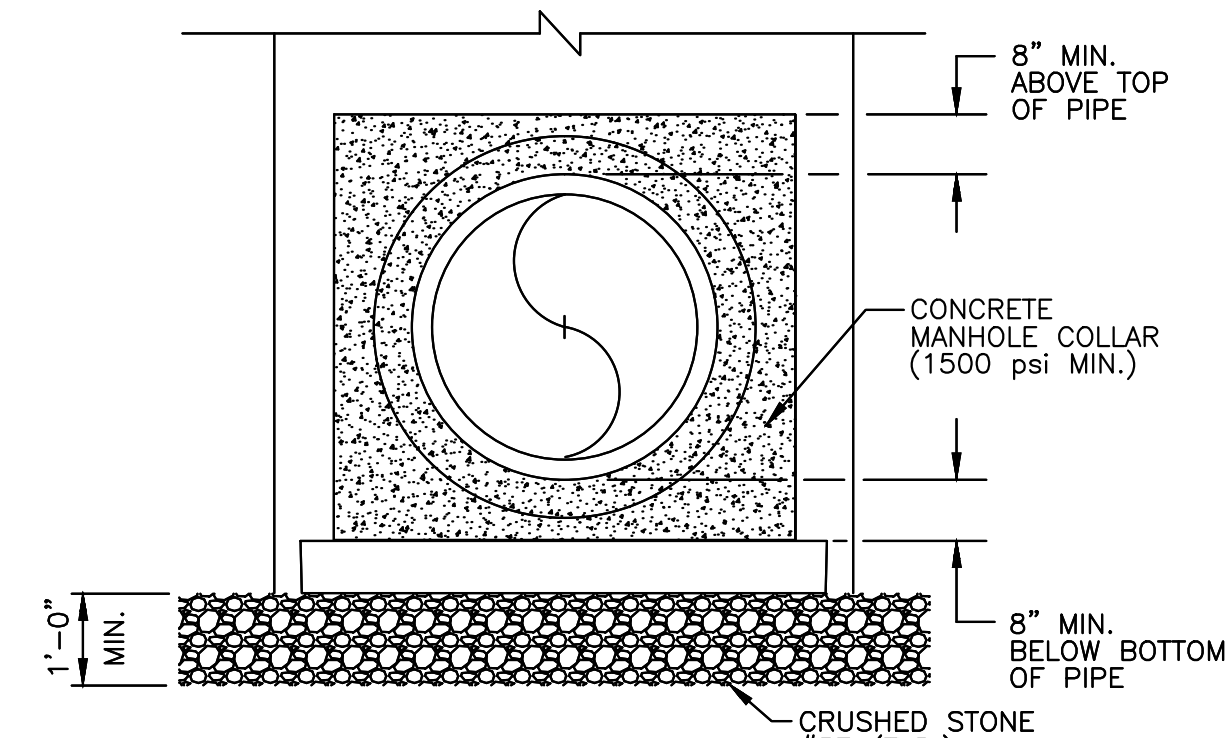
- NOTE:
1. USE BOOTS FOR PIPES ≤ 42" DIAMETER.
 2. TYPE I IS FOR MECHANICALLY ATTACHED TYPE BOOTS.
 3. TYPE II IS FOR CAST-IN BOOTS.

BOOT CONNECTION

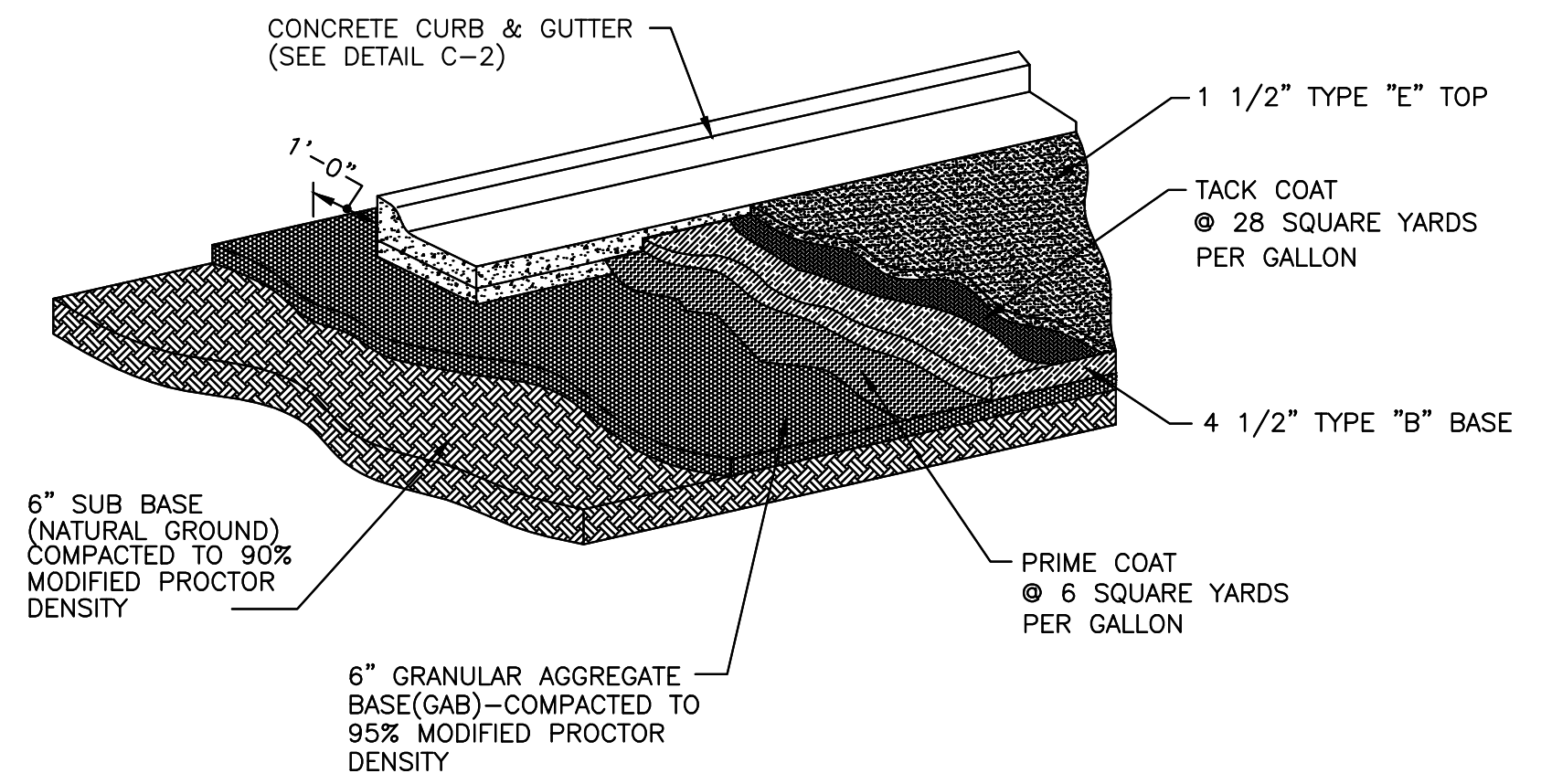


PLAN

- MANHOLE COLLARS SHALL BE USED FOR SEWER CONNECTIONS TO MANHOLES:
- 1.) IF EXIST. MANHOLE IS BRICK
 - 2.) IF SEWER > 42" DIAMETER.
 - 3.) IF MANHOLE IS CONSTRUCTED OVER EXIST. SEWER.
 - 4.) TO REPAIR TYPE II BOOT CONNECTION.



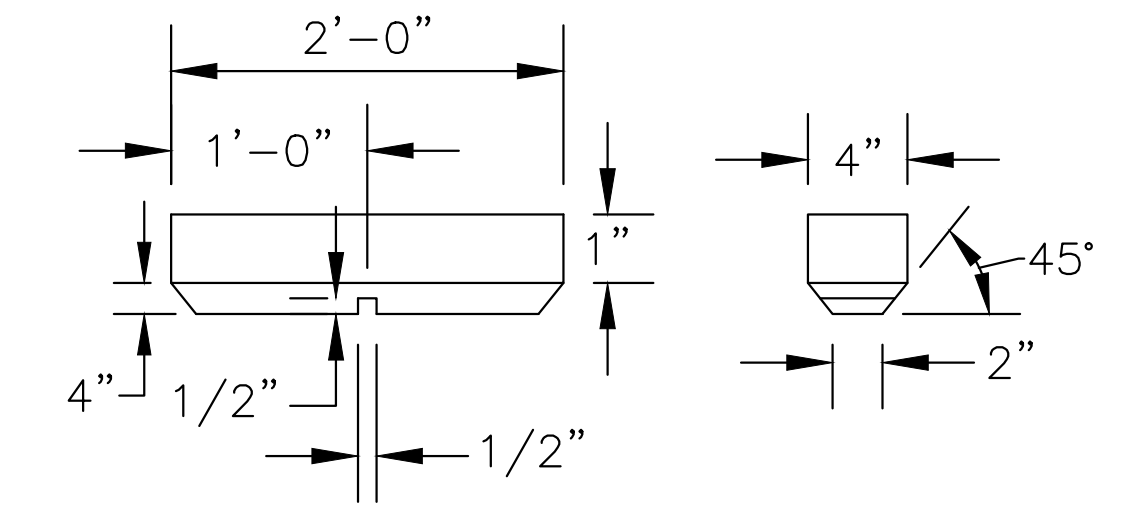
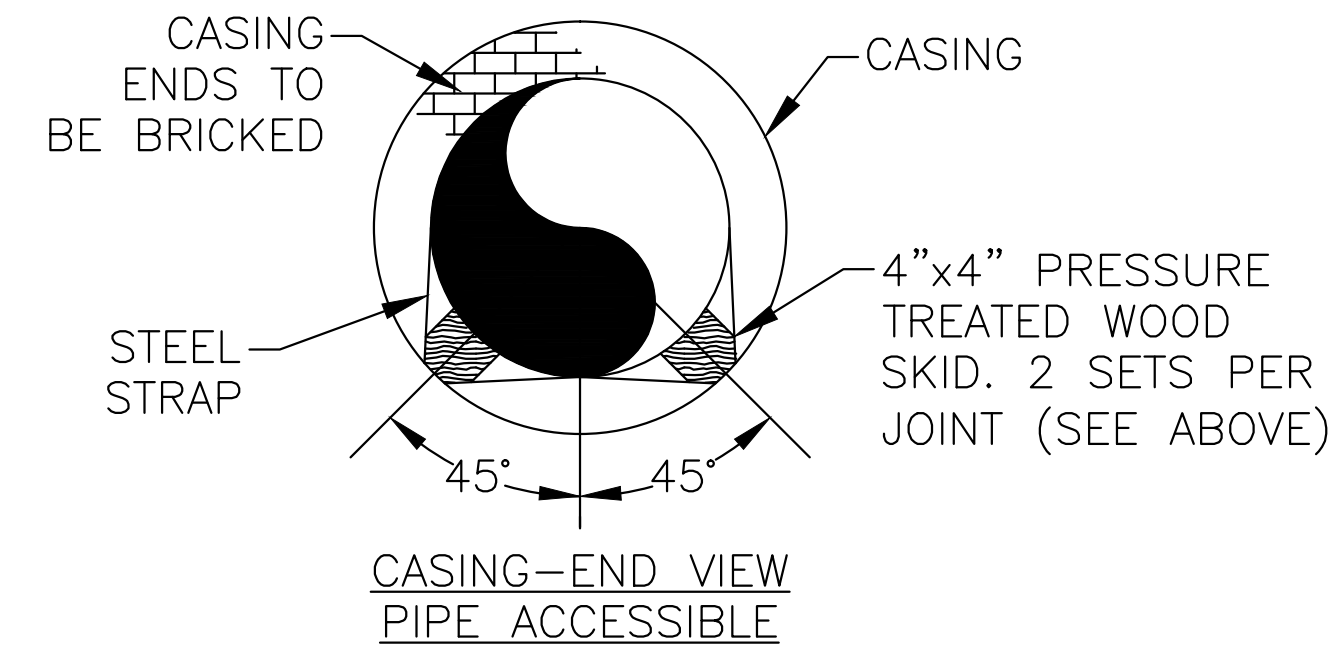
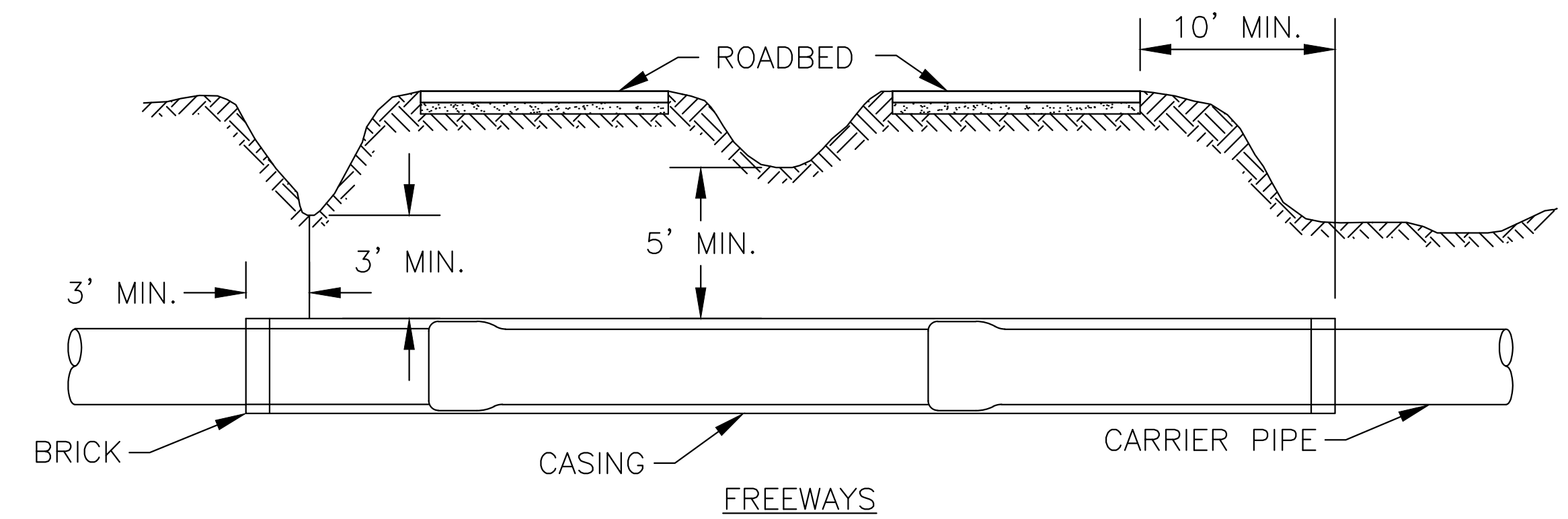
**SECTION A-A
MANHOLE COLLAR**



NOTE:

ASPHALTIC PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH GEORGIA DOT SPECIFICATIONS. ASPHALTIC TYPES AND MIXES SHALL BE GEORGIA DOT APPROVED MIX TYPES.

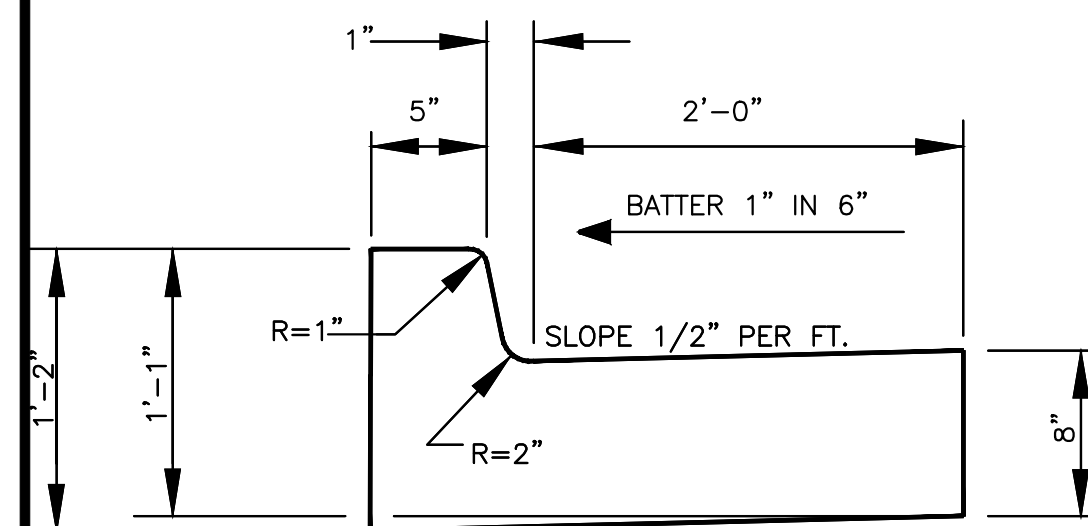
RESIDENTIAL STREET SECTION



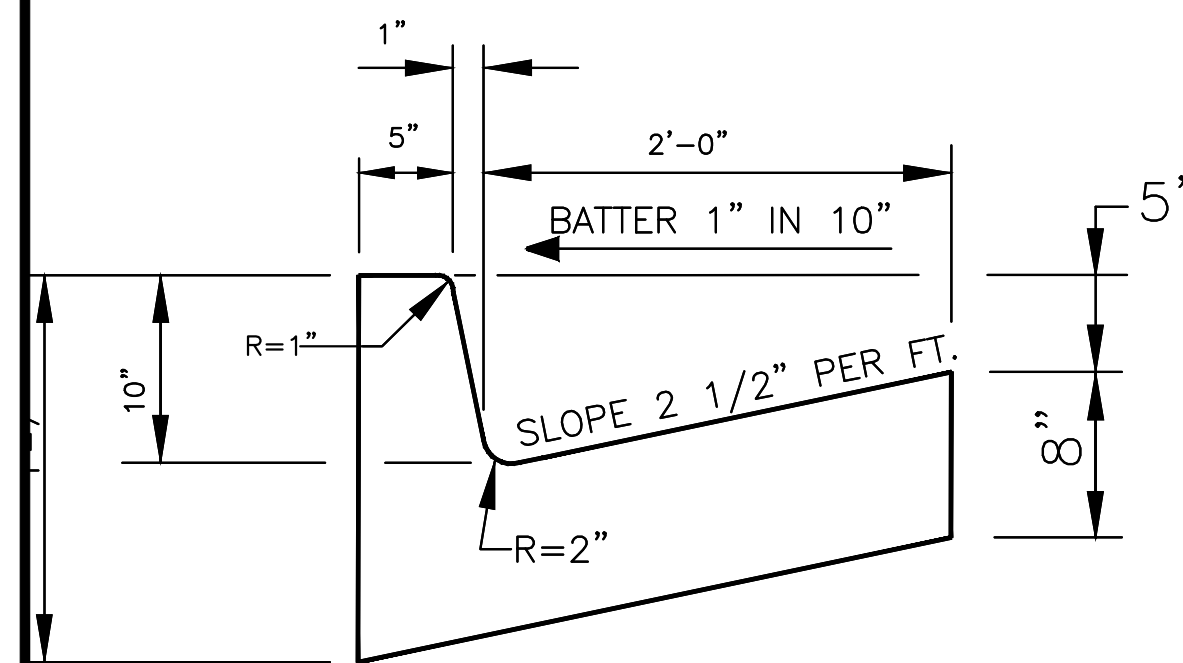
WOOD SKID DETAIL

NOTES:

1. SECTIONS, WHERE DIRECTED BY THE ENGINEER MAY BE CONSTRUCTED IN UNIFORM LENGTHS OF TWENTY (20) FT. ON TANGENT. LENGTH MAY BE REDUCED FOR CLOSURE AND AT CORNERS TO NO LESS THAN SIX(6) FEET.
2. CONCRETE CURB AND GUTTER SHALL BE IN ACCORDANCE WITH GEORGIA DOT. SPECIFICATIONS SECTION 441.

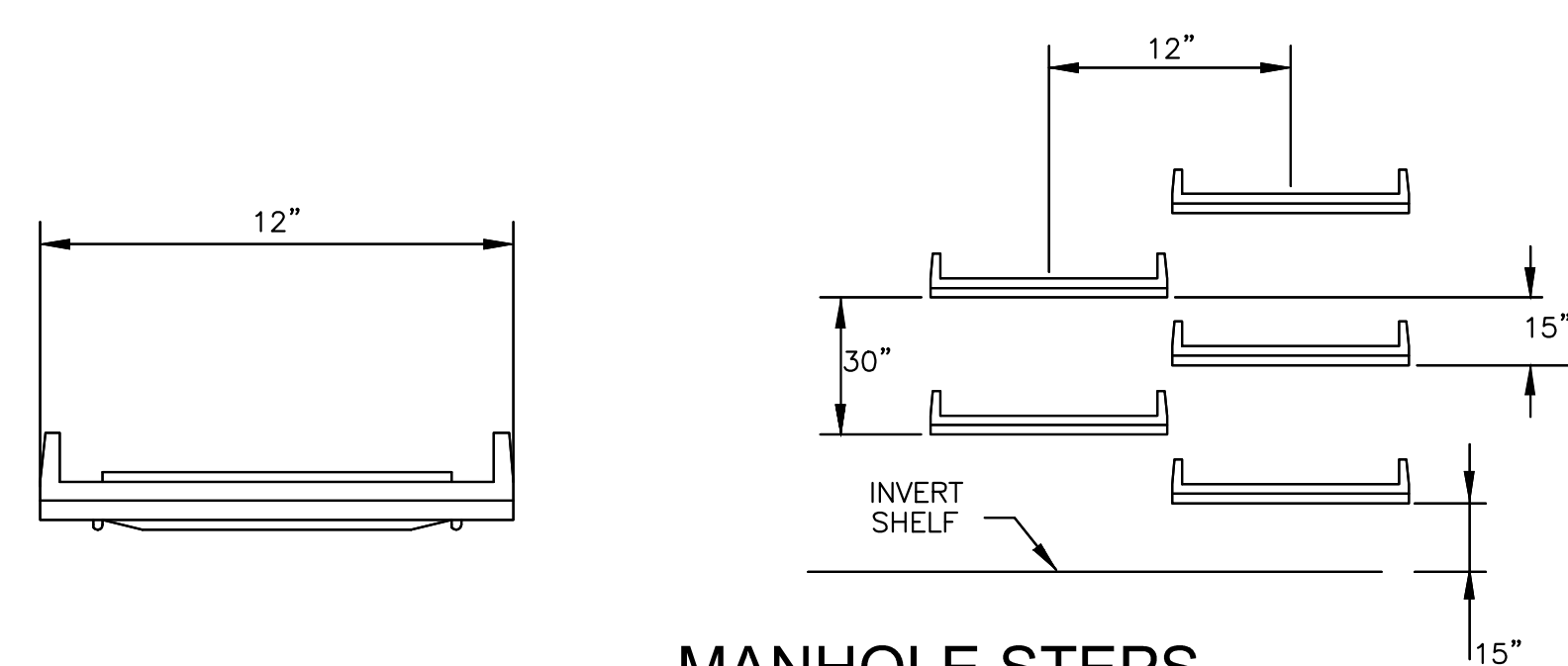


SECTION A-A

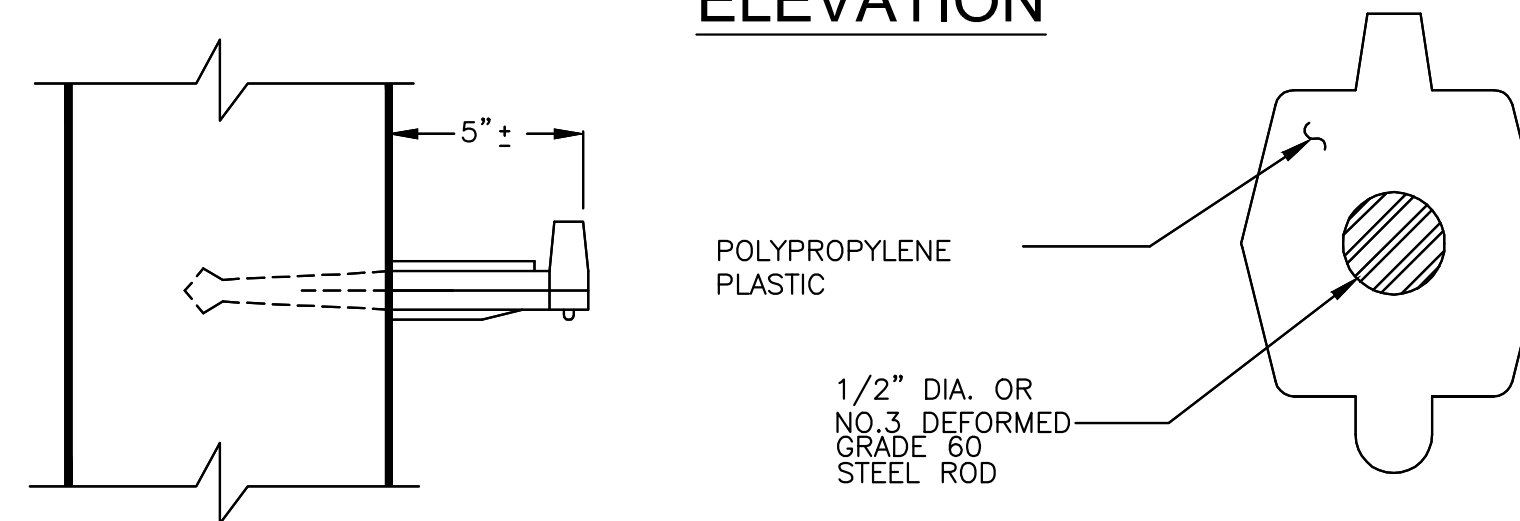


SECTION B-B

CONCRETE CURB AND GUTTER



MANHOLE STEPS ELEVATION



MANHOLE STEPS SECTION

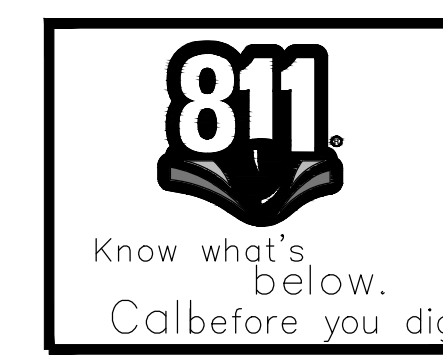
NOTE: STEPS SHALL BE PLACED INTO WET CONCRETE WALL DURING MANUFACTURE OR MORTARED INTO HOLES AFTER CONCRETE HAS SET

BORED CASINGS			
PIPE SIZE	PIPE O.D.	CASING SIZE	CASING I.D.
6"	6.90"	12"	11.376"
8"	9.05"	16"	14.314"
12"	13.20"	20"	17.938"
16"	17.40"	24"	21.564"
20"	21.60"	28"	27.0"
24"	25.80"	36"	35.0"

NOTE: IF CASING UNDER RAILROAD IS NOT COATED OR CATHODIC-ALLY PROTECTED, INCREASE THICKNESS .062"

TYPICAL FREEWAY CROSSING

DRAWING IS TO BE CONSIDERED PRELIMINARY UNLESS APPROVED									
REVISIONS				CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT OFFICE OF ENGINEERING SERVICES					
N.O.	DATE	DESCRIPTION							
			COLLIER ROAD, SANITARY SEWER IMPROVEMENTS - PHASE 2 STANDARD DETAILS - 2						
			SURVEYOR	FIELD BOOKS	L.L. DIST.	COUNTY	SCALE		
			M. HARROD	185	17TH	FULTON	N.T.S.		
			DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE		
			R. CRAYTON, P.E.	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	10-01-2016		
			PROJECT NUMBER: XX-XX-XX-XX-X	DATE OF SURVEY: 2016	SHEET				
			ENGINEER OF RECORD	17 OF 17					

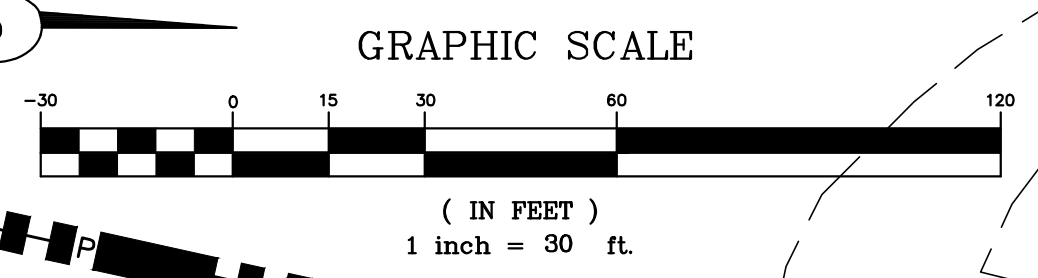


75 INTERSTATE 75

RECOMPENSE CALCULATIONS
 PARCEL #1
 PARCEL ID# 17 018500030115
 OWNER NAME : CITY OF ATLANTA
 ADDRESS : 0 BROOKVIEW DR NW

TREE ID#	SIZE/TYPE	CRZ Area sqft	Impacted area	Percent Damaged	SAVE/ DESTROYED
1	18" Hardwood	1018	164	16.1	Saved
2	18" Hardwood	1018	183	18.0	Saved
3	15" Hardwood	706	0	0	No Impact
4	5" Hardwood	79	0	0	No Impact
5	24" Hardwood	1810	0	0	No Impact
453	20" Pine	1257	1257	100	Destroyed
750	24" Hardwood	1810	469	26.0	Saved
8219	30" Oak	2826	783	27.7	Saved
8257	12" Hardwood	452	452	100	Destroyed
8258	30" Pine	2827	2827	100	Destroyed
8259	18" Hardwood	1018	0	0.0	Saved
8293	1" Small Tree	3.14	0	0.0	Relocate
8303	36" Pine	4072	714	17.5	Saved
8304	30" Pine	2827	825	29.1	Saved

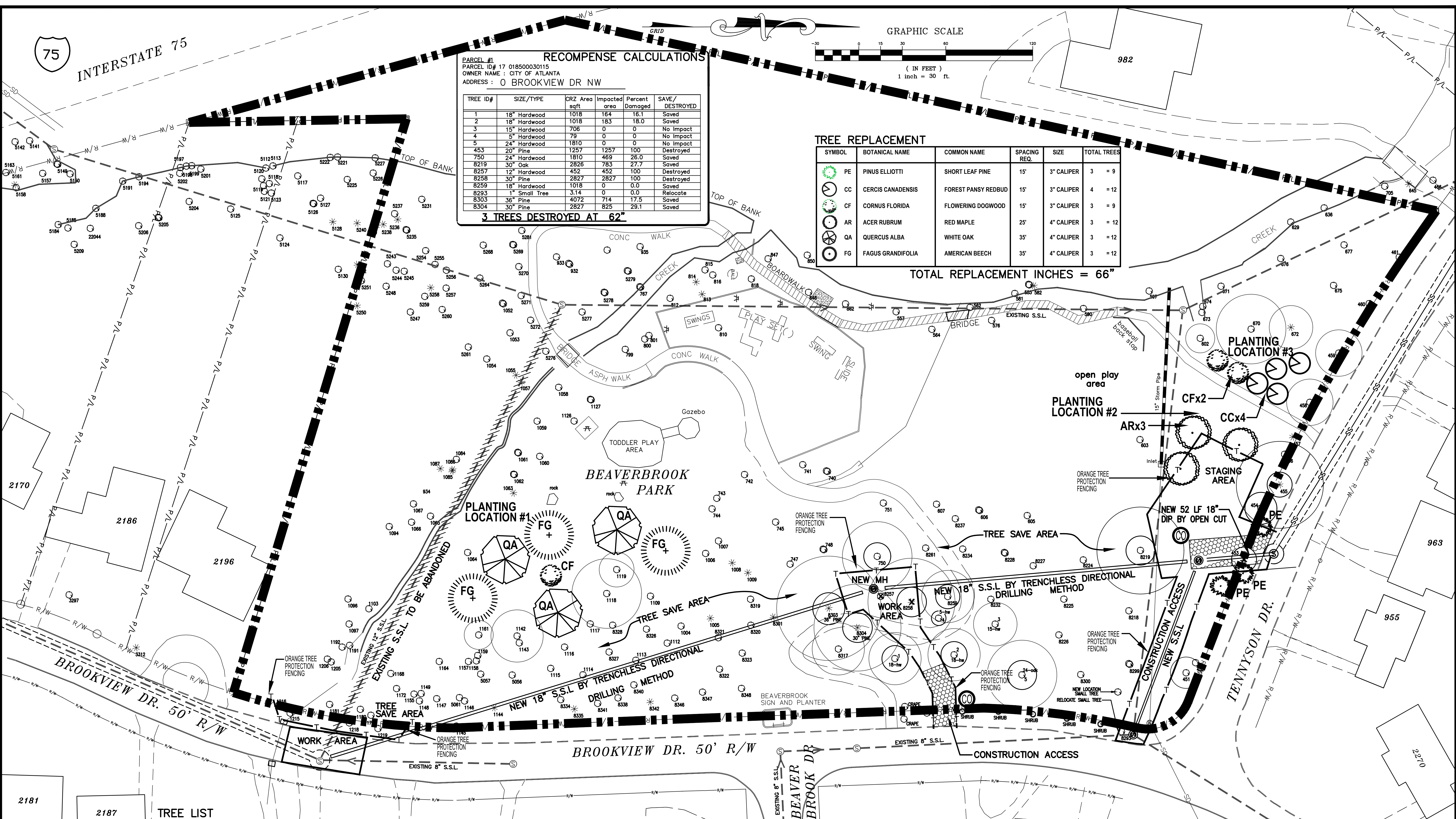
3 TREES DESTROYED AT 62"



TREE REPLACEMENT

SYMBOL	BOTANICAL NAME	COMMON NAME	SPACING REQ.	SIZE	TOTAL TREES
PE	PINUS ELLIOTTI	SHORT LEAF PINE	15'	3" CALIPER	3 = 9
CC	CERCIS CANADENSIS	FOREST PANSY REDBUD	15'	3" CALIPER	4 = 12
CF	CORNUS FLORIDA	FLOWERING DOGWOOD	15'	3" CALIPER	3 = 9
AR	ACER RUBRUM	RED MAPLE	25'	4" CALIPER	3 = 12
QA	QUERCUS ALBA	WHITE OAK	35'	4" CALIPER	3 = 12
FG	FAGUS GRANDIFOLIA	AMERICAN BEECH	35'	4" CALIPER	3 = 12

TOTAL REPLACEMENT INCHES = 66"



TREE LIST

451	36" Oak	590	48" Oak	742	12" Hardwood	850	30" Oak	1057	36" Pine	1109	10" Hardwood	1146	10" Hardwood	1205	10" Hardwood	5247	15" Maple	5275	2x 18" Tulip Poplar	8257	12" Hardwood	8323	Planted Tree
452	26" Sweetgum	597	15" Hardwood	743	24" Hardwood	862	24" Oak	1058	30" Hardwood	1110	24" Hardwood	1147	20" Hardwood	1206	24" Hardwood	5248	4" Elm	5276	1" Ornamental	8258	30" Pine	8324	18" Pine
453	20" Pine	602	10" Hardwood	745	20" Hardwood	929	24" Tulip Poplar	1059	30" Hardwood	1111	26" Pine	1148	14" Hardwood	1214	36" Hardwood	5250	18" Pine	5277	3" Oak	8259	18" Hardwood	8325	20" Sweetgum
454	36" Oak	603	36" Oak	747	18" Hardwood	930	20" Sweetgum	1060	10" Hardwood	1112	10" Hardwood	1149	30" Hardwood	1215	12" Hardwood	5251	8" Sweetgum	5278	3x 1" River Birch	8260	18" Hardwood	8326	Planted Tree
455	20" Pine	605	36" Oak	748	2x 6" Hardwood	931	18" Sweetgum	1061	3x 8" Hardwood	1113	20" Hardwood	1150	30" Hardwood	1216	36" Hardwood	5252	36" Hardwood	5279	3x 1" River Birch	8261	15" Hardwood	8327	Planted Tree
456	14" Hardwood	608	2x 20" Oak	750	24" Hardwood	932	2x 3" Dogwood	1062	3x 8" Hardwood	1114	20" Hardwood	1151	20" Hardwood	1218	36" Hardwood	5254	14" Magnolia	5280	2x 18" Oak	8262	24" Hardwood	8328	12" Oak
457	12" Pine	609	24" Oak	751	24" Hardwood	933	20" Sweetgum	1063	36" Pine	1115	14" Hardwood	1152	20" Hardwood	1219	4" Magnolia	5256	10" Tulip Poplar	5281	1" Hornbeam	8263	Planted Tree	8329	20" Oak
458	18" Hardwood	627	14" Hardwood	787	2x 15" Sweetgum	934	18" Sweetgum	1064	24" Hardwood	1116	24" Hardwood	1159	2x 14" Hardwood	1221	20" Oak	5257	16" Hardwood	8218	30" Oak	8297	38" Oak	8330	24" Oak
459	18" Hardwood	636	10" Hardwood	799	20" Tulip Poplar	935	24" Tulip Poplar	1065	12" Hardwood	1117	24" Hardwood	1161	10" Hardwood	1222	15" Hickory	5258	14" Pine	8219	30" Oak	8298	38" Sweetgum	8331	24" Oak
460	12" Hardwood	670	24" Hardwood	800	15" Sweetgum	1004	24" Oak	1066	30" Hardwood	1118	24" Hardwood	1164	10" Hardwood	1223	10" Tulip Poplar	5259	8" Tulip Poplar	8224	36" Oak	8299	2x 8" Hardwood	8333	12" Oak
461	12" Hardwood	671	15" Hardwood	801	15" Sweetgum	1005	24" Pine	1067	12" Hardwood	1119	12" Hardwood	1168	36" Hardwood	1224	10" Cherry	5260	12" Sweetgum	8225	24" Oak	8300	26" Oak	8334	6" Dogwood
462	16" Magnolia	672	15" Pine	810	24" Oak	1006	24" Hardwood	1068	12" Hardwood	1120	30" Hardwood	1169	36" Hardwood	1225	10" Tulip Poplar	5261	10" Tulip Poplar	8226	36" Oak	8301	36" Pine	8335	15" Pine
463	34" Oak	673	10" Hardwood	812	24" Sweetgum	1007	12" Hardwood	1069	8" Pine	1121	30" Hardwood	1172	30" Hardwood	1226	4" Elm	5264	12" Maple	8227	15" Oak	8302	36" Pine	8340	Planted Tree
464	15" Hardwood	674	10" Hardwood	813	30" Pine	1008	12" Pine	1070	28" Pine	1122	24" Hardwood	1173	36" Hardwood	1227	16" Pine	5266	12" Maple	8228	12" Oak	8303	36" Pine	8341	Planted Tree
465	15" Hardwood	675	24" Hardwood	814	16" Pine	1009	12" Pine	1071	28" Pine	1123	24" Hardwood	1174	36" Hardwood	1228	12" Oak	5268	12" Maple	8229	2x 6" Tulip Poplar	8304	30" Pine	8342	10" Oak
466	36" Sweetgum	676	30" Hardwood	815	8" Sweetgum	1052	2x 24" Hardwood	1094	18" Hardwood	1124	12" Hardwood	1181	36" Hardwood	1229	15" Pine	5270	1" Elm	8232	15" Oak	8317	18" Hardwood	8343	20" Oak
467	36" Oak	677	30" Hardwood	816	12" Sweetgum	1053	18" Hardwood	1096	36" Hardwood	1125	12" Hardwood	1182	36" Hardwood	1230	12" Pine	5271	1" Elm	8234	10" Oak	8319	Planted Tree	8346	10" Dogwood
468	12" Hardwood	678	30" Hardwood	818	15" Maple	1054	18" Hardwood	1097	36" Hardwood	1126	12" Hardwood	1183	36" Hardwood	1231	10" Tulip Poplar	5272	1" Elm	8235	24" Oak	8320	Planted Tree	8347	10" Maple
469	12" Pine	740	2x 12" Hardwood	846	20" Maple	1055	24" Pine	1103	10" Hardwood	1127	14" Pine	1184	24" Pine	1232	10" Tulip Poplar	5273	18" Dead Tree	8236	2x 15" Oak	8321	Planted Tree	8348	24" Maple
470	10" Hardwood	741	28" Hardwood	847	20" Oak	1056	24" Pine	1104	10" Hardwood	1128	14" Pine	1185	24" Hardwood	1233	10" Tulip Poplar	5274	20" Tulip Poplar	8237	8" River Birch	8322	Planted Tree		

REVISIONS

DATE	DESCRIPTION

CITY OF ATLANTA
 DEPARTMENT OF WATERSHED MANAGEMENT
 BUREAU OF ENGINEERING SERVICES

COLLIER ROAD, SANITARY SEWER IMPROVEMENTS - PHASE 2
 BEAVERBROOK PARK TREE REMOVAL, PROTECTION AND REPLACEMENT PLAN

SURVEYOR	FIELD BOOKS	L.L.	DIST.	COUNTY	SCALE
		154,185,186	17TH	FULTON	1"=30'

DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE
AD		RC		03/21/2017

ENGINEER OF RECORD

DWG. NO. XX-XX-XX-XX-X

SHEET TP-1

PROJECT NOTES:

Anticipated Disturbances on this project are the result of required CONSENT DECREE SANITARY SEWER Infrastructure repair.

All trees plantings and installation must occur during the approved months .

All underground utilities must be called in, marked, and located before any construction is to start.

All new trees must be placed Temporarily in their proposed locates for inspection and placement approval before any tree is to be dug into the ground.

Contractor shall honor a 2 year warranty on all trees. This may require the contractor to make periodic visits to water trees or to install water collection devices such as water bags or doughnuts. Contractor shall follow all laws regarding watering and water restrictions.

Contractor shall make every attempt to save existing trees. Orange tree protection fencing shall be installed to prevent compaction of root zones and to prevent other damages to trees by equipment and construction activities.

All trees to be removed must be marked or painted before construction, clearing, or mobilization begins.

GENERAL LANDSCAPE NOTES:

Trees shall all be healthy, in vigorous growing condition, free from disease and pests, and without damage on delivery. DWM shall reserve rights of refusal for plants delivered that are not in good condition. If plants are unavailable or are difficult to obtain, contractor shall submit a replacement tree species for approval. No bad quality trees shall be delivered to the job site.

Contractor shall provide trees typical of their species or variety; with normally developed branches and vigorous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sunscald injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation.

Trees shall be sound, healthy, vigorous, well branched, and densely foliated when in leaf. Trees must have good structural form and have strong central leaders and even branching.

Trees shall not be in a root bound condition.

All trees over 8' in height or 2.5" caliper shall be balled and burlapped with wire basket. Ball size shall conform to the "American standards for Nursery Stock" specifications. All B&B trees shall be freshly dug.

All plants must be available in field or in yard for viewing and tagging by DWM contact. The selection of all materials shall be subject for approval. DWM shall have the right to reject any/all material, which, in opinion, does not meet standards.

Contractor must honor 2 year warranty of all trees. This may require the installation of tree watering bags or periodic visits by contractor to water trees.

Site is to be graded for positive drainage. All trees shall be planted with care to insure survival. Don't plant tree in standing water or location that would adversely affect tree growth. 2-3 inches mulch shall be installed around all new trees.

Site will be inspected for uniform grass coverage. All disturbed areas must be seeded with permanent grass to prevent erosion from escaping the site. Temporary grass shall be used as necessary. See grass seeding tables, fertilization rates, site preparations notes, recommended species, etc, included in the erosion control section.



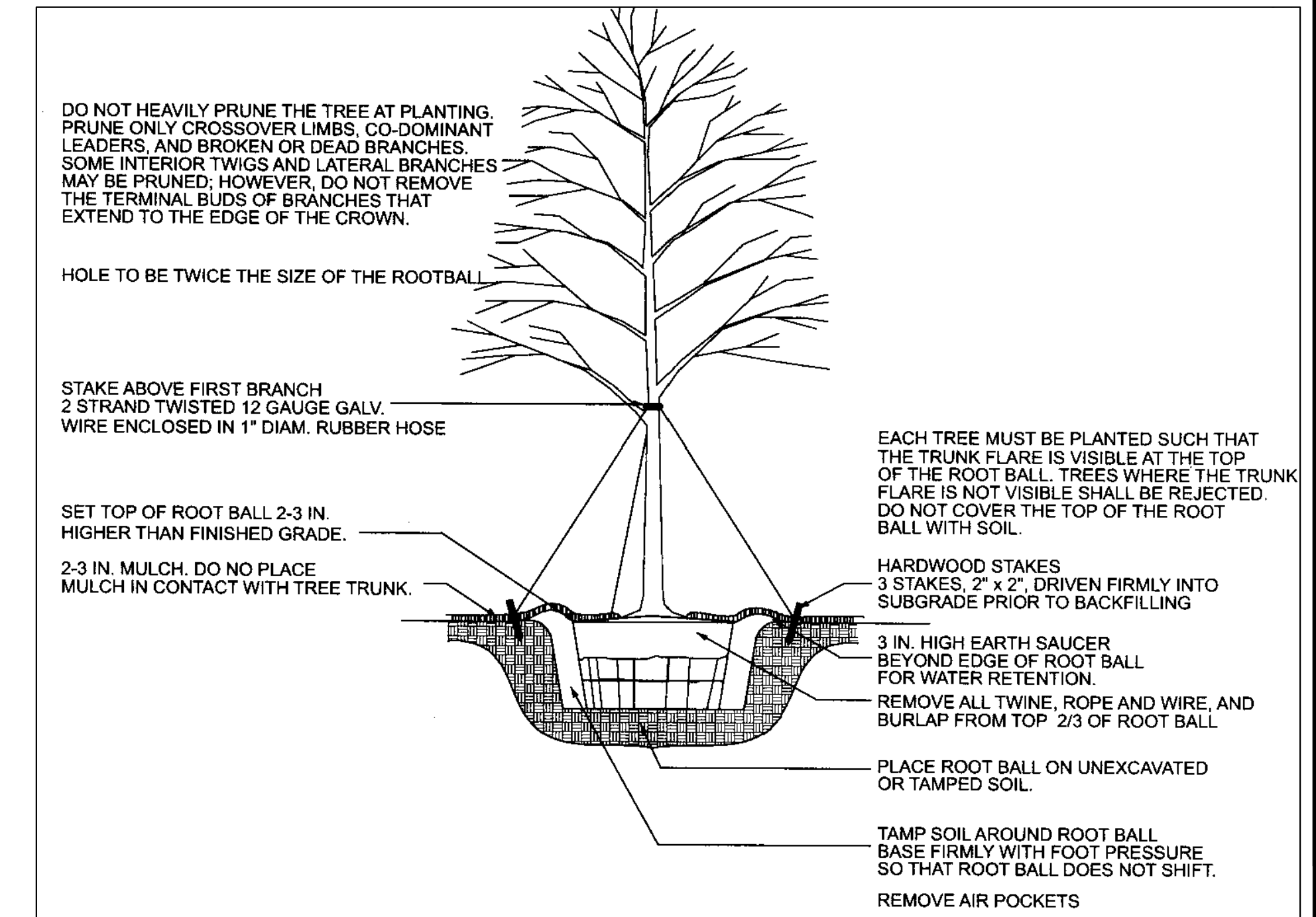
TREE PLANTING LOCATION #1



TREE PLANTING LOCATION #2

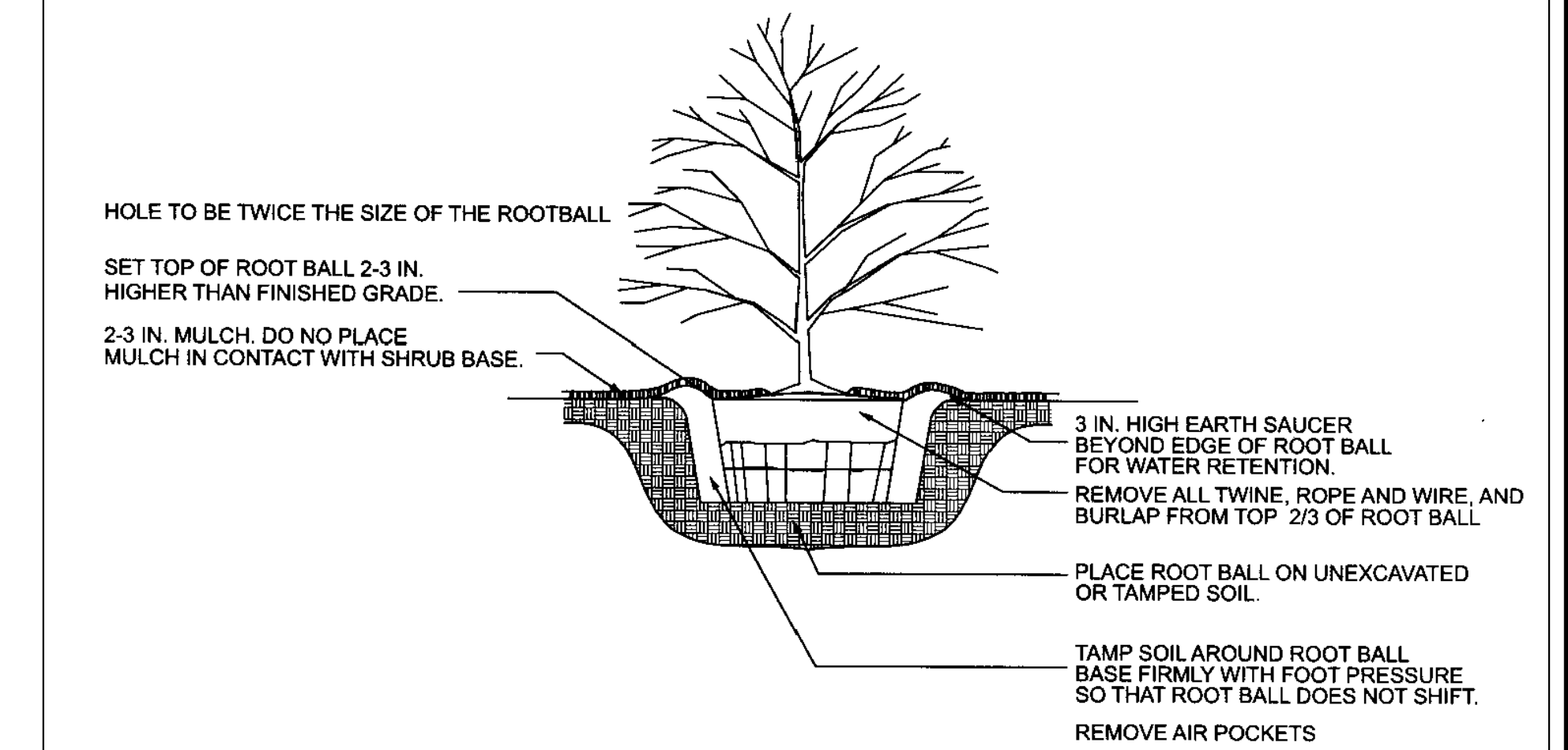


TREE PLANTING LOCATION #3



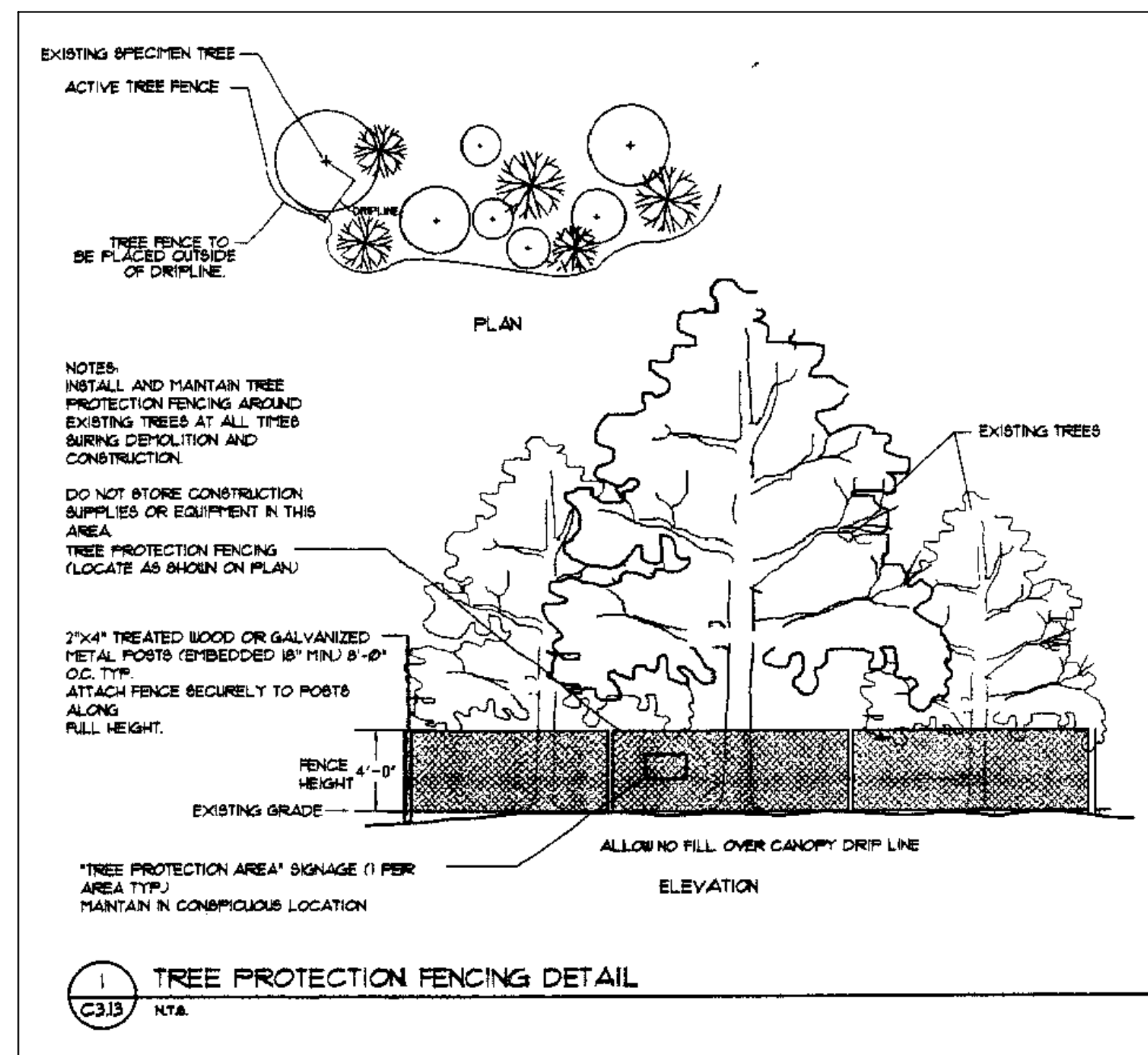
TREE PLANTING DETAIL

NTS



SHRUB PLANTING DETAIL

NTS



PARCEL #1
PARCEL ID# 17-0103-LL-0803
OWNER NAME : BROOKWOOD HILLS COMMUNITY CLUB
ADDRESS : 0 CAMDEN RD NE

RECOMPENSE CALCULATIONS

DISTURBED AREA (ON PRIVATE PROPERTY OUTSIDE ROW): 31042 SQFT
0.712 AC

AMOUNT DUE FOR RECOMPENSE:
\$5,000 * 0.712 AC = \$ 3560.00
-R=100(41) + 33(926) = - \$31356.00

41 TREES DESTROYED AT 826"
CONTRACTOR TO PLANT 23- 2.5" TREES

CREDIT FOR PLANTING TREES = \$100.00(23) + \$30.00 (57.5) = \$4025.00

\$465.00 CREDIT

REVISIONS		CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT BUREAU OF ENGINEERING SERVICES					
DATE	DESCRIPTION						
		COLLIER ROAD, SANITARY SEWER IMPROVEMENTS - PHASE 2 BEAVERBROOK PARK TREE REMOVAL, PROTECTION AND REPLACEMENT PLAN					
		SURVEYOR	FIELD BOOKS	L.L. DIST.	COUNTY	SCALE	
				154,185,186 17TH	FULTON	1"=30'	
		DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	
		AD		RC		03/21/2017	
ENGINEER OF RECORD		DWG. NO. XX--XX--XX--X				SHEET	TP-2