PROJECT LOCATION

CONSTRUCTION NOTES

1. CONTRACTOR WILL BE WORKING IN TEMPORARY CONSTRUCTION EASEMENTS, PERMANENT EASEMENTS, AND COUNTY RIGHT-OF-WAYS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEARING AND GRUBBING OF EASEMENTS AND REMOVAL OF ALL DEBRIS INCLUDING STUMPS, BLAST ROCK, ETC. NO BURIAL OF CLEARED MATERIALS WILL BE

2. CONTRACTOR SHALL REMOVE ALL DEBRIS AND HAVE SOIL EROSION CONTROL MEASURES IN PLACE BEFORE

3. CONTRACTOR TO NOTIFY UTILITY PROTECTION AGENCY 72 HOURS PRIOR TO START OF WORK. PHONE 811. ALL UTILITY COMPANIES WHICH HAVE FACILITIES IN THE CONSTRUCTION AREA (TELEPHONE, ELECTRIC, ETC.) SHALL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY DISRUPTIONS OF UTILITY SERVICE. ANY UTILITIES DAMAGED MUST BE REPAIRED THE SAME DAY, UNLESS WRITTEN PERMISSION FROM UTILITY OWNER IS GIVEN

5. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATION SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. HE SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE UTILITIES TO THEIR ORIGINAL CONDITION AND QUALITY, AS APPROVED BY THE CLIENT AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY. SHOULD THE DAMAGED UTILITY LINE REQUIRE REPAIR BY THE RESPECTIVE UTILITY COMPANY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL COSTS ASSOCIATED WITH THE REPAIR INCLUING FINES AND ASSESSMENTS IMPOSED BY UTILITY COMPANY. CONTRACTOR SHALL NOTIFY ELECTRIC POWER PROVIDER 5 BUSINESS DAYS IN ADVANCE OF WORK ADJACENT TO POWER POLES. COORDINATE WITH UTILITY PROVIDER TO REMOVE OR RELOCATE UTILITY MAINS AND POLES AND PAY ALL ASSOCIATED

6. WHEN CONSTRUCTION INVOLVES THE REMOVAL OF FENCE, POLES, MAILBOXES, SIGNS, SIDEWALKS, DRIVEWAYS, DRIVEWAY CULVERTS, TEMPORARY OR FIXED STRUCTURES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PROVIDE FOR TEMPORARY ACCESS SERVICE OR CONTAINMENT TO THE AFFECTED PROPERTY. HE SHALL REPLACE SUCH ITEMS WITH SIMILAR OR BETTER MATERIALS AS SOON AS PRACTICAL, OR AS DIRECTED BY THE ENGINEER AND ALL SIGNAGE, ALL UTILITY COMPANIES WHICH HAVE FACILITIES IN THE CONSTRUCTION AREA (TELEPHONE, ELECTRIC, ETC.) SHALL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

7. PEDESTRIAN AND LOCAL VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. SAFETY DEVICES AND FLAGMEN SHALL BE PROVIDED BY THE CONTRACTOR, AT HIS EXPENSE. IF IT SHOULD BE NECESSARY, WRITTEN PERMISSION TO CLOSE THE CONSTRUCTION AREA TO TRAFFIC MUST BE OBTAINED FROM THE APPROPRIATE GOVERNMENT AGENCY PRIOR TO ANY STREET CLOSING. ALL CONSTRUCTION SIGNAGE, LIGHTED BARRIERS, ETC. SHALL BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.

8. ALL CONSTRUCTION STAKING SHALL BE BY THE CONTRACTOR, AT HIS EXPENSE. STAKING OF EASEMENT AND CLEARING LIMITS AND NEW CONSTRUCTION SHALL BE PERFORMED BY PROFESSIONAL SURVEYOR LICENSED IN GEORGIA.

9. ALL PROPERTY LINES ARE BASED ON DATA PROVIDED BY FIELD SURVEY DATA.

10. CONTRACTOR SHALL MAINTAIN FIELD "AS-BUILT" DRAWINGS AND SHALL MEASURE AND SHOW LOCATION OF ALL MANHOLES, GRAVITY MAINS, RIM/INVERT ELEVATIONS, ETC.

11. CONTRACTOR SHALL MATCH EXISTING LAWN AND GRASS TYPES WHEN REPAIRING DISTURBED AREAS.

12. ALL CROSS DRAINS AND DRIVEWAY CULVERTS MUST REMAIN OPEN AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO DRAINS AND CULVERTS.

13. CONTRACTOR SHALL PERFORM CONSTRUCTION IN A MANNER THAT WILL ALLOW VEHICULAR ACCESS TO EACH HOME OR BUSINESS DURING CONSTRUCTION.

14. ALL EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

15. A MINIMUM OF 10' OF HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER & SEWER MAINS. A MINIMUM OF 18" VERTICAL SEPARATION SHALL BE MAINTAINED AT ALL CROSSINGS OF WATER & SEWER MAINS.

16. THE CONTRACTOR SHALL FURNISH MATERIALS AND MAKE THE CONNECTION TO ALL EXISTING PIPE LINES.

17. THE CONTRACTOR SHALL BEAR ALL COST OF WATER USED FOR FLUSHING AND TESTING REQUIRED BY THE SPECIFICATIONS. PROVISIONS TO PURCHASE SAID WATER FROM A SUPPLIER APPROVED OF BY THE ENGINEER.

18. ALL REQUIRED FITTINGS ARE NOT NECESSARILY SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL FURNISH AND SUPPLY ALL FITTINGS NECESSARY TO CONSTRUCT GRAVITY SEWER MAIN.

19. BEFORE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER THE CONTACT INFORMATION OF A PERSON WHO WILL BE AVAILABLE 24 HOURS A DAY TO CONTACT IN CASE OF EMERGENCY.

20. CONTRACTOR TO SAW-CUT EXISTING ASPHALT TO PROVIDE NEAT EDGE FOR PATCHING ON ALL STREETS (SEE DETAIL CLASS 'A' UTILITY PATCH DETAIL)

21. ALL CONSTRUCTION MATERIALS, METHODS AND INSTALLATION SHALL BE IN ACCORDANCE WITH MACON WATER AUTHORITY STANDARDS AND SPECIFICATIONS.

22. CONTRACTOR SHALL NOTIFY MWA CHIEF INSPECTOR, JOEL HERNDON, 478-464-5639, A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.

PROJECT QUANTITIES

BENCHMARK INFORMATION

4" DIPS HDPE DR 9 FORCE MAIN:

535 L.F.

N/A

BILLINGSWOOD DRIVE LIFT STATION 4" SANITARY SEWER FORCE MAIN REPLACEMENT FOR THE MACON WATER AUTHORITY



Macon Water Authority

537 HEMLOCK STREET

Macon, GA 31202-0108

(478) 464-5635 * Fax (478) 738-3864

SEPTEMBER 5, 2023

NOTIFICATION CONTACTS

Owner and
24-HourJoel Herndon, Chief InspectorContactMacon Water Authority537 Hemlock Street

Macon, GA 31202 Phone: 478-464-5639 Email: jherndon@maconwater.org

Engineer

Don L. Carter, P.E.
Carter Engineering Group.
6310 Peake Road, Suite 200
Macon, GA 31210
Office: 478-219-2600
Email: dcarter@carterenggrp.com

UTILITY CONTACTS

Gas Cheryl Treadway, Account Executive, New Business Development

AGL Resources (Local Office) 5472 New Forsyth Rd, Macon, GA 31210 Local Office: (478) 476-2230 Cell: 404-391-3142

Email: Cheryl.treadway@aglresources.com

Georgia Power 960 Key Street Macon, GA 31204

Telephone/Cable OSP-Planning & Design

Engineering ΔΤ&Τ

Office: 888-655-5888

1630 Eisenhower Parkway-Room 26 Macon, GA 31206 Phone: 478-788-1040 Email: mr8876@att.com

Vater and Sewer

Joel Herndon, Chief Inspector Macon Water Authority 537 Hemlock Street Macon, GA 31202 Phone: 478-464-5639

Phone: 478-464-5639
Email: jherndon@maconwater.org

LEGEND

DESCRIPTION	EXISTING	NEW
PROPERTY LINE		
CONTOUR LINE	- — -45 <i>Ø</i> - — -	4 5 <i>Ø</i>
POWER POLE	Ø	
LIGHT POLE	φ-	*
OVERHEAD POWER	OHP	
HIGH VOLTAGE LINE	HVL	
UNDERGROUND ELECTRICAL	———E——	
UNDERGROUND TELEPHONE		
UNDERGROUND FIBER OPTIC	——FOC——	
GAS LINE	——————————————————————————————————————	——-G——
WATER LINE	w	$-\!-\!$
FIRE PROTECTION MAIN		—·—FM—·—
DOMESTIC WATER		$-\cdot - DW - \cdot -$
IRRIGATION MAIN		-·-IRR-·-
FIRE HYDRANT	Ø	*
WATER VALVE	\triangleright	>
SAN. SEWER W/ MANHOLE	—SAN—O——	
CLEANOUT	0	•
DRAIN INLET		
CATCH BASIN D.O.T. STD. 1033D		
STORM DRAIN	=====	I I I I
SILT FENCE & TYPE		—x—(Sd1-C)—x—
SPOT ELEVATION	+	•
CONCRETE PAVING		
CONCRETE SIDEWALKS		
PVC IRRIGATION SLEEVE		
SOIL BOUNDARY LINE		
SOIL TYPE		HyB
FENCE	xxx	xxx
FENCE W/ 3 STRANDS OF BARBED WIRE		xx
NOT IN CONTRACT		N.I.C.
	00	

TREES TO BE REMOVED

INDEX TO DRAWINGS

SHEET

TITLE

- COVER SHEET

C1.1 SANITARY SEWER FORCE MAIN PLAN AND PROFILE

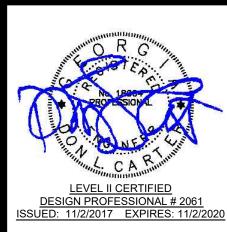
C2.1 SANITARY SEWER DETAILS

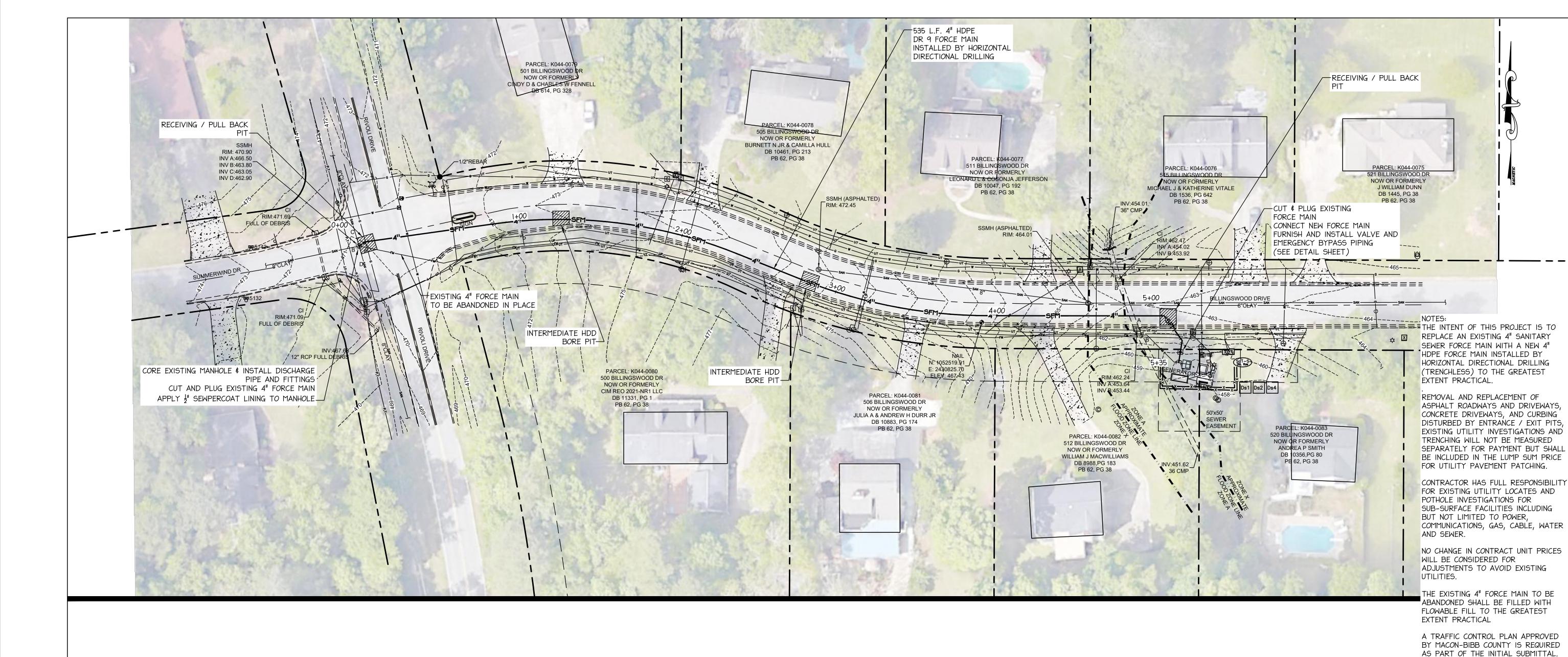
PROJECT NARRATIVE

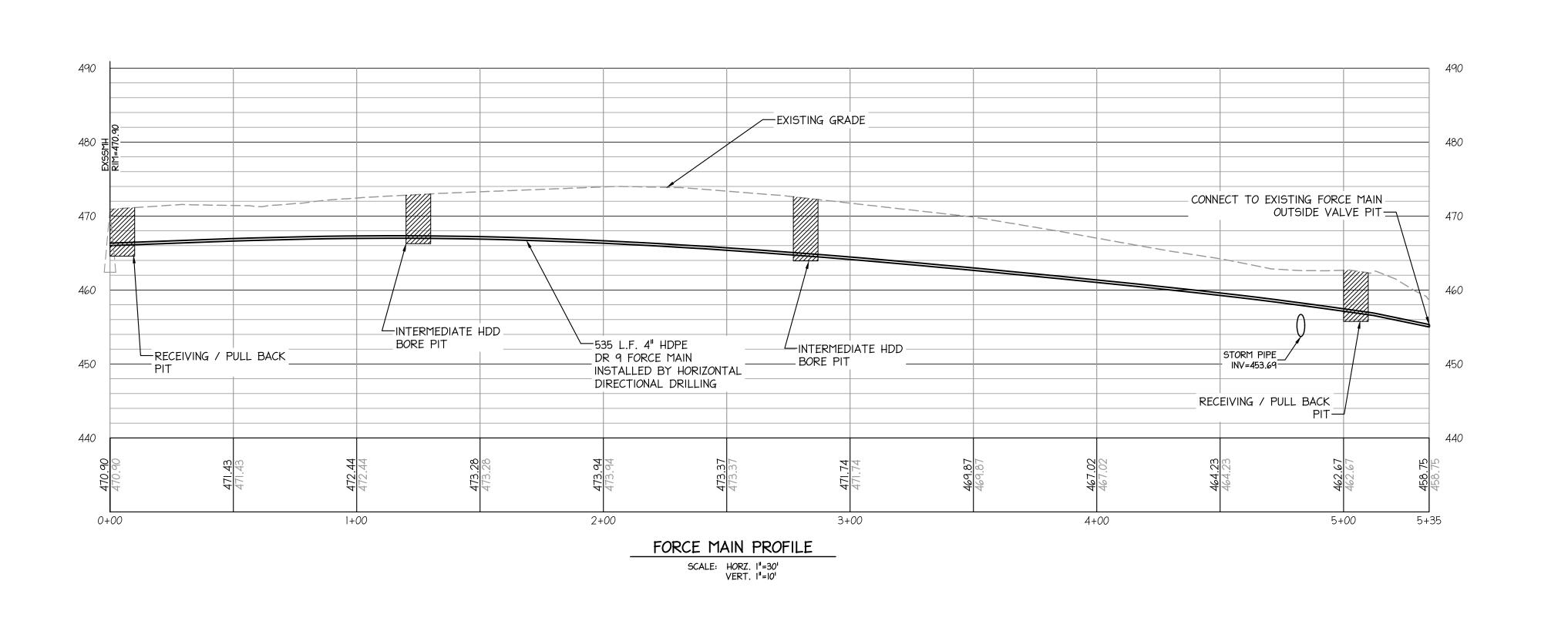
THIS PROJECT CONSISTS OF FURNISHING AND INSTALLING APPROXIMATELY 535 L.F. OF 4" SANITARY SEWER FORCE MAIN AT THE BILLINGSWOOD DRIVE LIFT STATION.



Engineering Group
6310 Peake Road, Suite 200
Macon, GA 31210
(478) 219-2600





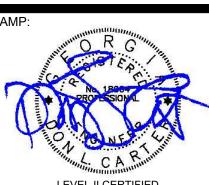




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Contact 811 before you dig.



RELEASE DAT	
REV # DATE	DESCRIPTION



CLIENT: MACON WATER AUTHORITY

MACON, GA

NO APPLICATIONS FOR PAYMENT WILL BE PROCESSED UNTIL THE CONTRACTOR

TRAFFIC CONTROL PLAN TO THE MWA.

INCLUDE A POINT OF CONTACT FOR THE

CONTRACTOR TO DISTRIBUTE DOOR KNOB HANGERS TO AFFECTED HOMES

HORIZONTAL DIRECTIONAL DRILLING IS

ANY DEVIATION TO HDD INSTALLATION

INSTALLATION FOR THE FORCE MAIN.

MUST BE APPROVED BY THE MWA

HAS PRESENTED AN APPROVED

THE CONTRACTOR SHALL SEND LETTERS NOTIFYING HOMEOWNERS OF PROPOSED PROJECT BEGINNING AND

ENDING DATES. LETTER SHALL

PRIOR TO CONSTRUCTION.

PRIOR TO INITIATION.

THE PREFERRED METHOD OF

CONTRACTOR.

PROJECT: BILLINGSWOOD DRIVE FORCE MAIN REPLACEMENT

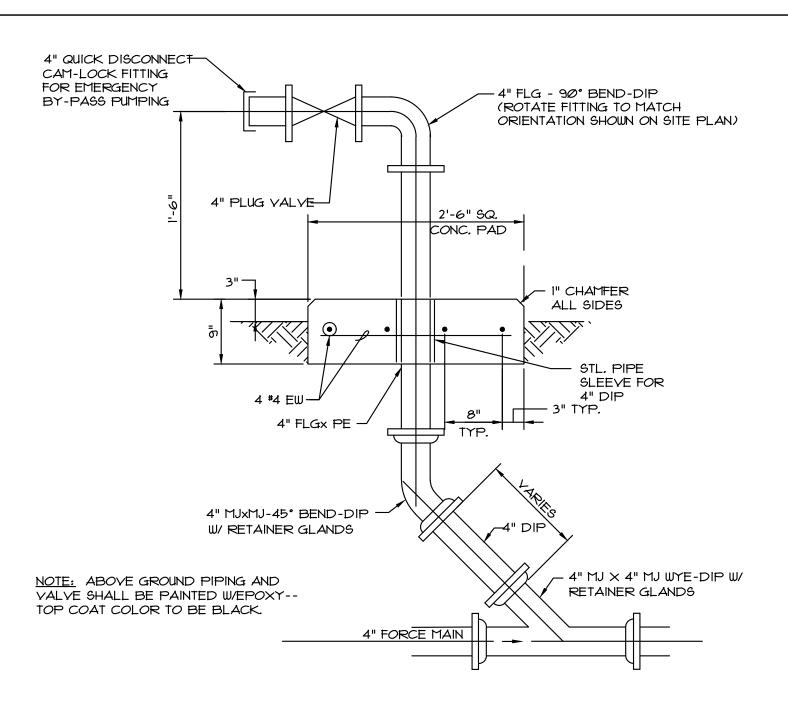
MACON, GA 31216	
DRAWN BY:	CHECKED BY:
CADD	DLC
PROJECT NUMBER:	DATE:
M0175.070	09/05/2023
GRAPHIC SCALE:	
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SCALE:

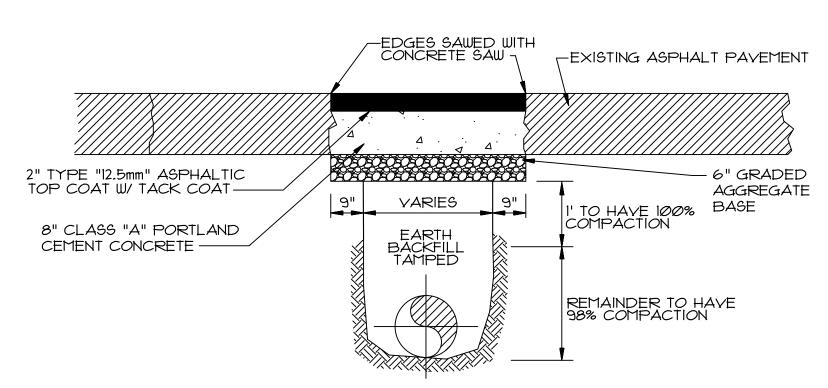
DRAWING TITLE:

FORCE MAIN PLAN AND PROFILE

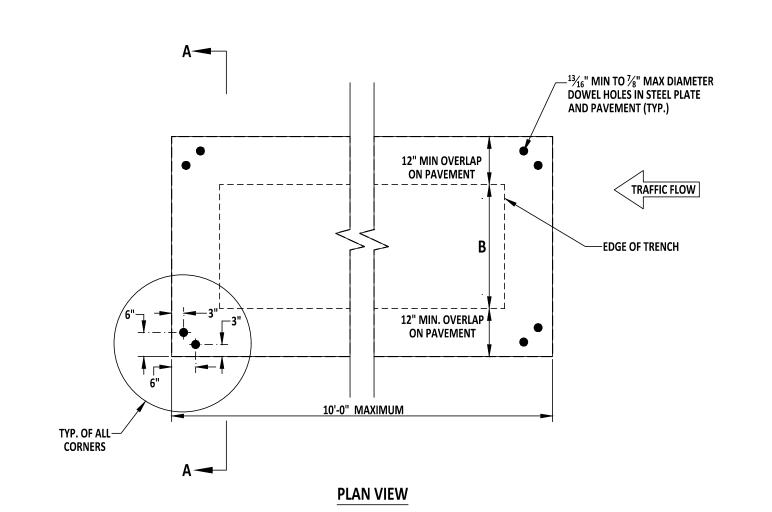
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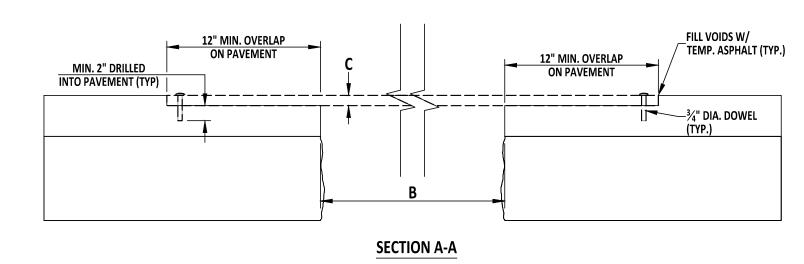


PUMPING STATION EMERGENCY BYPASS PIPING N.T.S.

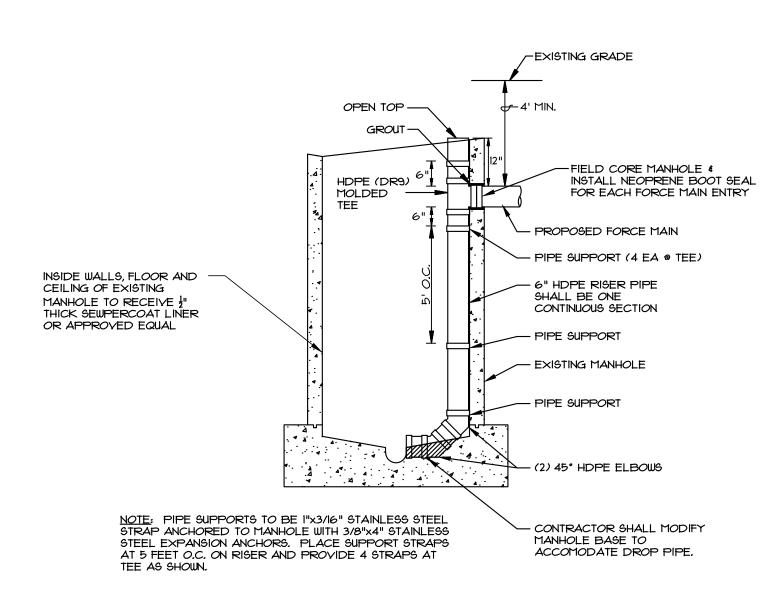


DETAIL - CLASS A UTILITY PATCH (FOR ASPHALT STREETS AND DRIVEWAYS)

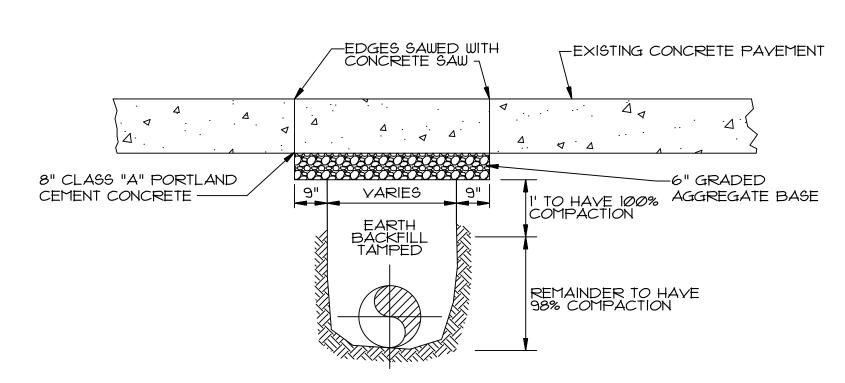




STEEL PLATE - RECESSED INTO ROADWAY



FORCE MAIN DISCHARGE MANHOLE



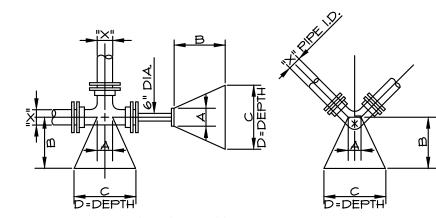
DETAIL - CONCRETE DRIVEWAY REPLACEMENT

В	С
TRENCH WIDTH	MIN. PLATE THICKNESS
1'-0"	1/2"
2'-0"	3/4"
3'-0"	7/8"
4'-0"	1"
5-'0"	1½"
6'-0"	11/4"

- 1. USE OF STEEL PLATES TO BE APPROVED BY MACON-BIBB COUNTY ENGINEERING DEPARTMENT FOR ROADWAY EXCAVATIONS LEFT OPEN OVERNIGHT. 2. PROVIDE STEEL PLATES AND DOWELS CONFORMING TO ASTM A36 STANDARDS.
- 3. ADEQUATELY SHORE THE TRENCH IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO SUPPORT THE
- BRIDGING AND TRAFFIC LOADS. 4. SECURE BRIDGING AGAINST DISPLACEMENT BY USING ADJUSTABLE CLEATS, SHIMS, OR OTHER DEVICES.
- NOT LEFT IN PLACE OVER THE WEEKEND, UNLESS DIRECTED BY THE MWA IN THE FIELD. 6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF STEEL PLATES, SHORING, ASPHALT CONCRETE AND ENSURING THEY MEET ALL MINIMUM SPECIFICATIONS. DEFORMATIONS OF ANY KIND ARE NOT ACCEPTABLE ON STEEL PLATES. EXAMPLES OF DEFORMATIONS COULD BE, BUT NOT LIMITED TO, ANY OF THE

5. USE OF STEEL PLATE BRIDGING IS NOT TO EXCEED FOUR (4) CONSECUTIVE WORKING DAYS IN ANY GIVEN WEEK AND

- FOLLOWING: FREE FROM ANY CLIPS, CHAINS, ATTACHMENTS, WELDMENTS, SURFACE IRREGULARITIES, ETC. 7. A STRUCTURE DESIGN IS REQUIRED FOR TRENCH WIDTHS GREATER THAN 6'-0". SUBMIT DESIGN TO THE DEPARTMENT FOR APPROVAL.
- 8. INSTALL STEEL PLATE BRIDGING AND SHORING USING THE METHOD BELOW: METHOD 1: MILL THE PAVEMENT TO A DEPTH EQUAL TO THE
- THICKNESS OF THE PLATE AND TO A WIDTH AND LENGTH EQUAL TO THE DIMENSION OF THE PLATE. BUTT SUBSEQUENT PLATES TO EACH OTHER. ATTACH THE PLATE TO THE ROADWAY BY A MINIMUM OF TWO DOWELS PRE-DRILLED INTO EACH CORNER OF THE PLATE AND DRILLED 2" INTO THE
- PAVEMENT AS SHOWN ON THIS DETAIL. 9. WHEN THE STEEL PLATES ARE REMOVED, BACKFILL THE DOWEL HOLES IN THE PAVEMENT WITH EITHER GRADED FINES OF ASPHALT CONCRETE MIX, CONCRETE SLURRY, OR EQUIVALENT SLURRY TO THE
- SATISFACTION OF THE MACON-BIBB COUNTY ENGINEER.
- 10. PROVIDE STEEL PLATES WITH A SURFACE THAT IS MANUFACTURED WITH A MINIMUM NOMINAL COEFFICIENT OF FRICTION OF 0.35 AT THE TIME OF PLACEMENT.



150 PSI TEST PRESSURE 2000 PSF SOIL BEARING

$\overline{}$			KING			
		X *	A	В	C	_ D
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П	₩	8"	0'-10"	2'-Ø"	4'-Ø"	2'-6
		6"	Ø'-8"	1'-6"	2'-9"	1'-9
		16"	1'-3"	5'-6"	9'-0"	5'-
		12"	1'-0"	4'-0"	6-9	4'-
	<i>.0</i> 6	10"	1'-0"	3'-Ø"	5 5	3'-
	ق 	8"	0'-10"	2'-6"	4'-9"	3'-
		6"	Ø'-8"	1'-6"	3'-6"	2'-
		16"	1'-3"	3'-6"	6'-9"	4'-
	اہا	12"	1'-0"	2'-3"	5'-3"	3'-
	45	10"	1'-0"	2'-3"	4'-6"	2'-
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BEND 9		6"	0'-8"	1'-3"	2'-6"	1'-6
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ш	1/2°	12"	1'-@"	1'-6"	3'-6"	2'-
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		16"	1'-3"	1'-6"	3'-3"	2'-
	4	12"	1'-Ø"	1'-6"	2'-6"	1'-6
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6310 Peake Road, Suite 200 Macon, GA 31210 (478) 219-2600



	" DATE	DECODIDETON
KEV :	# DAIE	DESCRIPTION



CLIENT:

MACON WATER AUTHORITY MACON, GA

PROJECT:

BILLINGSWOOD DRIVE FORCE MAIN REPLACEMENT

MACON, GA 31216 CHECKED BY:

CADD PROJECT NUMBER: DATE: M0175.070 09/05/2023 GRAPHIC SCALE:

AS SHOWN

DRAWING TITLE: SANITARY SEWER

DETAILS

DRAWING NUMBER: