

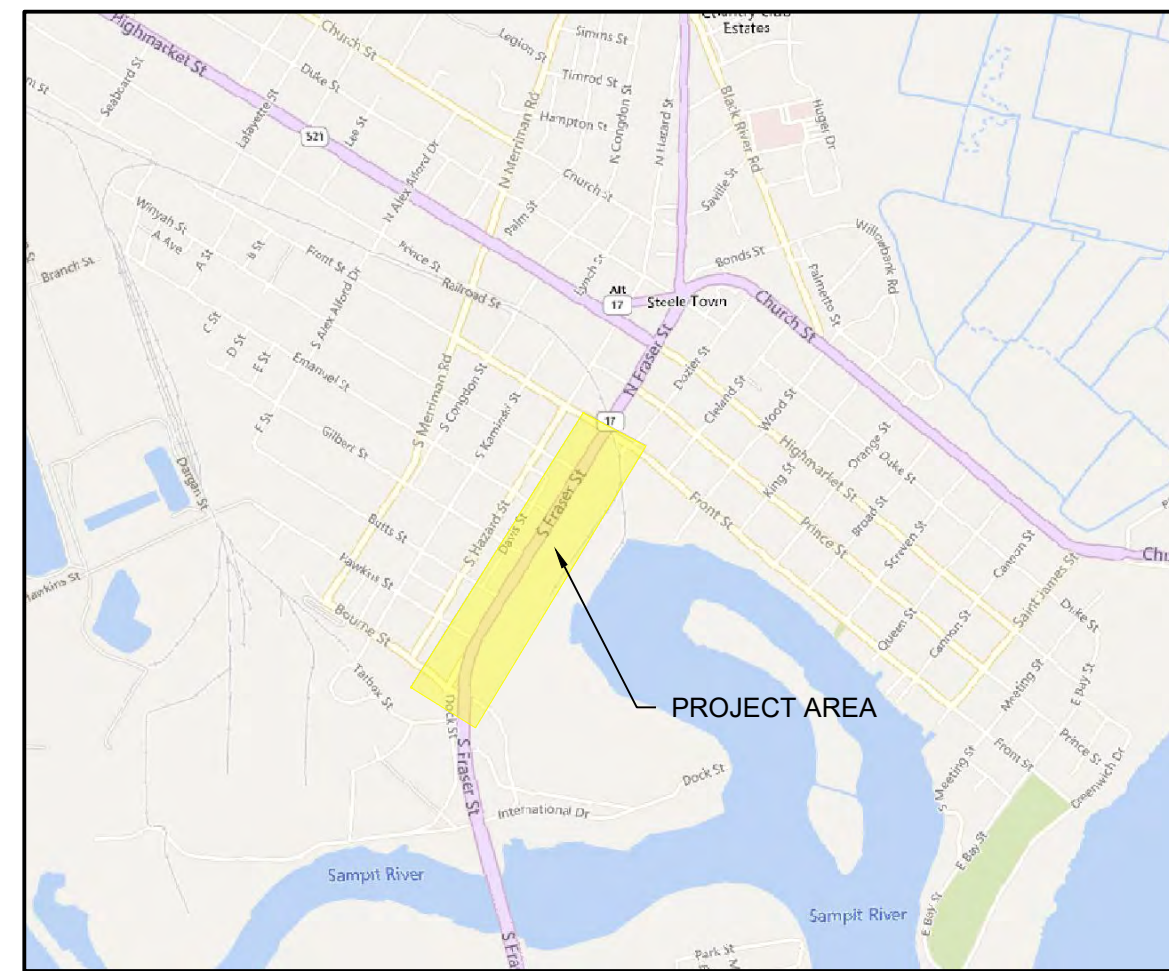
S. FRASER STREET (US HWY 17)

SANITARY SEWER & MANHOLE

REHABILITATION

PROJECT NO. 1818

RE-BID FOR MH 1828 REPLACEMENT AND POINT REPAIRS ONLY



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

Re-Bid Date May 2024

MAYOR
CAROL JAYROE

CITY COUNCIL
JIM CLEMENTS
JONATHAN ANGNER
BRUCE CARL
ERIN ETHRIDGE
JIMMY MORRIS
TAMIKA WILLIAMS-OBENG



CITY ADMINISTRATOR
SCOTT WHITTIER

CITY ENGINEER
ORLANDO ARTEAGA, P.E.

DRAWING INDEX	
SHEET	TITLE
G000	COVER AND DRAWING INDEX
G001	GENERAL NOTES
C100 - C102	(Not Used)
C200 - C201	REHABILITATION MAPS
C300 - C302	(Not Used)
C400	CONSTRUCTION DETAILS
C401	CONSTRUCTION DETAILS
C402	SCDOT STANDARD TRAFFIC CONTROL DETAILS
TC100	TRAFFIC CONTROL LAYOUT
TC101	DETOUR PLAN LAYOUT

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440

SANITARY SEWER and
MANHOLE SURVEY
S. FRASER STREET
PROJECT #1818

Weston & Sampson Engineers, Inc.
1201 Main Street, Suite 930
Columbia, SC 29201
978.532.1900 800.SAMPSON
www.westonandsampson.com

Subconsultants:

Revisions:

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1	1/31/24	ISSUED FOR REBID
2	5/8/24	BID PKG NO. 1 (RE-BID)

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Approved By: KG
W&S Project No.: ENG23-0476
W&S File No.:

Drawing Title:
COVER SHEET

Sheet Number:
G000

BID PACKAGE NO. 1

P:\City of Georgetown\1818\1818_SFRASER_Sanitary Sewer\1818_CADD\0001_COVER_SHEET.dwg

Rev: 1.6 Date: 04/10/2019

GENERAL NOTES:

- A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL TIMES WHILE THE CONTRACTOR IS PERFORMING WORK.
- WITHIN ALL NOTES, THE TERM CONTRACTOR SHALL MEAN THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR OR VENDOR PERFORMING CONSTRUCTION ON THE SITE.
- SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS, OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, THEY SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) AT 1-888-721-7877 OR 811 AT LEAST 72 HOURS BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL HAVE COPIES OF ACTIVE DIG TICKETS ON-SITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF FEDERAL, STATE, COUNTY, AND LOCAL MUNICIPALITIES.
- ALL MATERIALS, METHODS, AND DETAILS OF CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND DRAWINGS.
- ALL RIGHT-OF-WAY CONSTRUCTION SHALL MEET THE REQUIREMENTS OF LOCAL AND STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DRAWINGS AND COMPLY WITH ALL PERMIT REQUIREMENTS.
- THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
- GENERAL CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS FOR CONSTRUCTION HAVE BEEN OBTAINED PRIOR TO THE START OF THE PROJECT.
- ANY CONSTRUCTION TRAILERS USED ON-SITE SHALL BE PERMITTED THROUGH LOCAL GOVERNING AGENCY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE ALL NECESSARY PERMITS.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING INFRASTRUCTURE WITHIN THE SITE OR ADJOINING PROPERTIES (I.E. PAVEMENT, CURB, SIDEWALK, UTILITIES, LANDSCAPED AREAS, ETC.). CONTRACTOR SHALL REPAIR/REPLACE ALL DAMAGED ITEMS IMMEDIATELY, IF NECESSARY, OR PRIOR TO THE END OF THE JOB AT AT NO COST TO THE UTILITY IN ACCORDANCE WITH LOCAL REGULATORY REQUIREMENTS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF ALL UTILITIES BY THE APPROPRIATE UTILITY COMPANY AND SUBCONTRACTORS PERFORMING WORK TO AVOID CONFLICTS. GENERAL CONTRACTOR IS ALSO RESPONSIBLE FOR SCHEDULING INSTALLATION OF ALL UTILITIES IN A TIMELY, ORGANIZED, AND SYSTEMATIC MANNER.
- IN THE EVENT OF A CONFLICT WITH WATER, SEWER, DRAINAGE, OR OTHER UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO MAKING FIELD ADJUSTMENTS.
- ALL MATERIALS SHALL CONFORM TO THE UTILITY STANDARD SPECIFICATIONS AND DETAILS AS TO TYPE AND DESIGN.
- EXCEPT AT HIS OWN RISK, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER ON ALL MATERIALS PRIOR TO PURCHASE OR INSTALLATION.
- BIDDER SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE WORK TO BE PERFORMED IN ACCORDANCE TO THE CONTRACT DOCUMENTS PRIOR TO BID.
- THE UTILITY SHALL MAINTAIN OWNERSHIP OF ALL DEMOLISHED ITEMS. ANY DEMOLISHED ITEMS DEEMED UNWANTED BY THE CITY BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN A SATISFACTORY MANNER.

CONSTRUCTION NOTES:

- ALL MATERIALS, METHODS, AND DETAILS OF CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND DRAWINGS.
- THE CONTRACTOR(S) SHALL LOCATE AND PLACE SIGNAGE AT ALL OVERHEAD POWER CROSSINGS MARKING THEIR LOCATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ANY NECESSARY TRAFFIC CONTROLS THROUGHOUT THE DURATION OF THE PROJECT, IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION), SCDOT, AND LOCAL AGENCIES. CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS IN THE APPROVED ENCROACHMENT PERMITS.
- THE CONTRACTOR SHALL ENSURE THAT ALL-WEATHER ACCESS TO LOCAL RESIDENCES AND BUSINESSES IS MAINTAINED THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL CLEAN AND MAINTAIN ALL ROADWAYS AS NECESSARY TO ENSURE THAT NO CONSTRUCTION DEBRIS IS PRESENT FOR EXTENDED PERIODS OF TIME.
- ALL EXCAVATION AND COMPACTION OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS.
- ALL BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
- THE CONTRACTOR SHALL PERFORM IN-PLACE MOISTURE DENSITY TESTS FOR ALL COMPACTED MATERIAL USING A RECOGNIZED TESTING LABORATORY APPROVED BY THE ENGINEER OR OWNER.
- TRENCH EXCAVATION SHALL NOT EXCEED BACKFILL BY MORE THAN 100 FEET. NO TRENCH SHALL BE LEFT OPEN AFTER NORMAL WORKING HOURS.
- DURING WORKING HOURS, ALL OPEN EXCAVATIONS SHALL BE ENCLOSED WITH ORANGE SAFETY BARRICADE FENCE AND DRUMS. NO OPEN EXCAVATIONS SHALL REMAIN UNCOVERED OVERNIGHT.
- THE CONTRACTOR SHALL REMOVE ALL RUBBISH, TRASH, DEBRIS, AND EXCESS EXCAVATED MATERIALS FROM THE PROJECT AREA AND DISPOSE OF THEM IN A LEGAL MANNER.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY DEWATERING TO PERFORM AND MAINTAIN EXCAVATIONS AND GRADES. DEWATERING OPERATIONS SHALL NOT DISCHARGE DIRECTLY INTO MARSH OR WETLAND AREAS. WATER PUMPED FROM EXCAVATION AND OTHER WORK AREAS MUST BE HELD IN SETTLING BASINS OR FILTERED PRIOR TO DISCHARGE INTO SURFACE WATERS OR STORM DRAINAGE SYSTEMS. WATER MUST BE DISCHARGED THROUGH A PIPE, WELL-GRASSED OR LINED CHANNEL, OR EQUIVALENT MEANS SUCH THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY OBSTRUCTIONS (FENCES, MAILBOXES, ETC.) IN THE PATH OF CONSTRUCTION AND REPLACING THEM IN THE SAME CONDITION INITIALLY FOUND OR AS SHOWN IN CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING EROSION AND SEDIMENT CONTROL AND STORMWATER POLLUTION PREVENTION.
- CONNECTION TO EXISTING SEWER SYSTEM AND REQUIRED TESTS SHALL BE MADE IN THE PRESENCE OF UTILITY INSPECTOR. CONTRACTOR SHALL NOTIFY THE UTILITY AT LEAST 5 DAYS PRIOR TO TESTING AND CONNECTIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WASTEWATER FLOWS AT ALL TIMES, WHETHER PERMANENT OR TEMPORARY IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES, FEES AND ANY CLEANUP COSTS ASSOCIATED WITH OVERFLOWS/SPILLS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL INCORPORATE THE USE OF LINE STOPPERS AS NECESSARY TO AVOID ANY SPILLS DURING TIE-IN/CONNECTIONS TO EXISTING LINES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INTEGRITY OF THE EXISTING FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REMAINING IN COMPLIANCE WITH ALL OSHA, STATE, AND FEDERAL REGULATIONS PERTAINING TO WORKING WITH WASTEWATER GASES, COMBUSTIBLE OXYGEN DEFICIENT ATMOSPHERES, AND CONFINED SPACES.
- ANY EXISTING FENCE LINES WITHIN THE EXISTING UTILITY SEWER EASEMENTS SHALL BE REMOVED AND REINSTALLED AS REQUIRED FOR BYPASS PUMPING PURPOSES.
- THE CONTRACTOR SHALL NOTIFY/COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES THE RELOCATION OF ANY UTILITY SERVICE AS INDICATED IN THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED IN THE RELOCATION OF THE UTILITIES.
- NOTIFY THE OWNER/ENGINEER AT A MINIMUM OF 48-HOURS BEFORE ANY BYPASS PUMPING ACTIVITIES BEGIN.

STANDARD EROSION CONTROL NOTES:

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR EVERY WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP WAS CONDUCTED INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
 - AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS WITH TEMPORARY AND PERMANENT SEEDING. EXCAVATIONS WITHIN YARDS MUST BE RESTORED WITH SOD.
- ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MUST BE INSTALLED, INSPECTED, AND MAINTAINED PER SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL REQUIREMENTS.

ABBREVIATION REFERENCE TABLE

ABBREVIATION	REFERENCE
PUPS	PALMETTO UTILITY PROTECTION SERVICE
SCDOT	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
S.C. REG	SOUTH CAROLINA REGULATION
WOS	WATERS OF THE STATE
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
H	HORIZONTAL
V	VERTICAL
BMPS	BEST MANAGING PRACTICES
SC	SOUTH CAROLINA
MH	MANHOLE
N	NORTH
S	SOUTH
ML	MAINLINE
ST	STREET
REHAB	REHABILITATION
PROP	PROPOSED
ID	INNER DIAMETER
IN	INCHES (MEASUREMENT)
FT	FOOT (MEASUREMENT)
VCP	VITRIFIED CLAY PIPE
PVC	POLYVINYL CHLORIDE PIPE

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



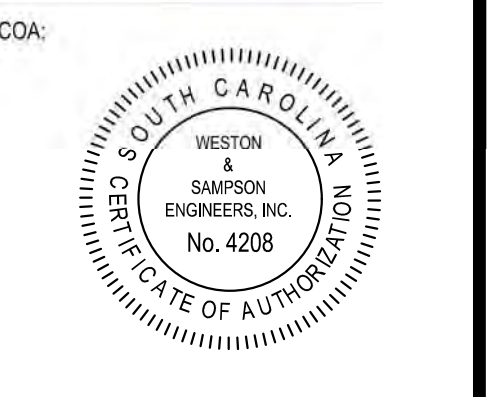
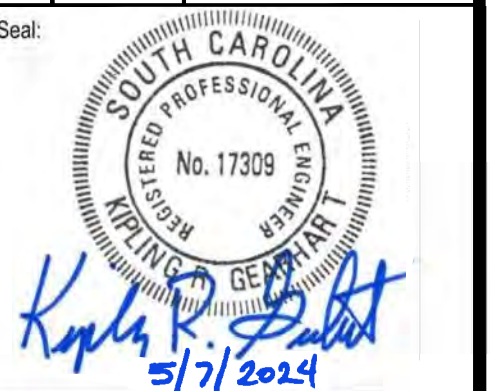
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1201 Main Street, Suite 930
Columbia, SC 29201
978.532.1900 800.SAMPSON
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GENERAL NOTES

Sheet Number:
G001

WORK AREA 2: MAIN LINE RECOMMENDATION


ML #	Sheet Number	Facility ID	Start MH	End MH	Material	CCTV Verified Diameter	CCTV Verified Length	Taps Active	Taps Inactive	Overall Inspection Grade	Proposed Rehab	Rehab Details
ML-17	C201	1832_1831	1832	1831	VCP	12	255.0	2	4	5	Point Repair	30 ft Point Repair starting 235 ft from USMH to MH 1831.

NOTES:
 1. SEE SHEET G001 FOR GENERAL NOTES.
 2. ALL INLETS SHALL RECEIVE APPROVED PROTECTION AS REQUIRED FOR THE POINT REPAIR ON LINE SEGMENT 1832_1831. SEE G001 FOR SEDIMENT AND EROSION NOTES.

Legend
 REHABILITATION RECOMMENDATIONS

- CIPP
- POINT REPAIR W/ CIPP
- CIPP (ALTERNATE BID)
- CIPP SHORT LINER
- ▲ MH W/ REPAIR
- * APPROXIMATE POINT REPAIR LOCATION. SEE TABLES
- * PLEASE SEE REHABILITATION TABLES FOR REPAIR RECOMMENDATIONS
- NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
 CITY OF GEORGETOWN
 2377 MAYBANK DRIVE
 GEORGETOWN, SC 29440



SANITARY SEWER AND MANHOLE SURVEY
 S. FRASER STREET
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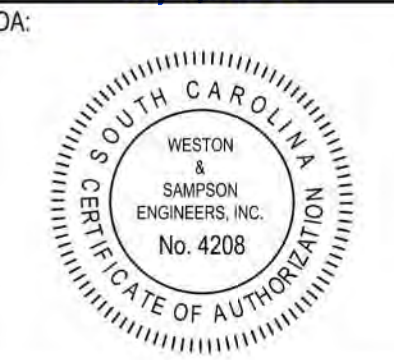
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 5/7/2024

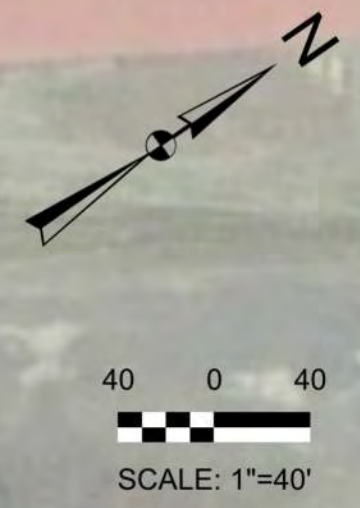
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 Reviewed By: PW/JB
 Approved By: KG
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Drawing Title:
 RECOMMENDED REHABILITATION MAP I
 S. FRASER STREET FROM BOURNE STREET TO FRONT STREET

Sheet Number:
C200



Rev. 1.8 Date: 04/10/2019

WORK AREA 1: MANHOLE AND MAIN LINE RECOMMENDATIONS

ML #	Sheet Number	Facility ID	Start MH	End MH	Material	CCTV Verified Diameter	CCTV Verified Length	Taps Active	Taps Inactive	Overall Inspection Grade	Proposed Rehab	Rehab Details
ML-20	C202	1829_1828	1829	1828	VCP	12	530.0	8	24	5	Point Repair	30 ft Point Repair starting at DSMH headed upstream.


Repair Item	Sheet Number	Manhole ID	Location Details	MH Width (in)	MH Depth (ft)	NORTHING	EASTING	Replace Manhole with New 4' Dia. Precast Manhole	Replace Manhole with New 5' Dia. Precast Manhole	Remove and Replace Standard MH Frame & Cover	Remove and Reset Existing Frame & Cover	Install New Flexible Chimney Seal	Repairing & Rebuilding Brickwork for Inverts, Channels, Benches, Wall, Cone & Chimneys	Coating Inverts w/ Quick Setting Grout	Sewer Monolithic Lining 4-ft Dia.	Lining Type	Level 2 MACP MH Inspection	Defect Location	Description of Defects	Manhole Report
MH-5	C202	1828	STREET	45.60	14.00	563869.70	2521822.41	NO	YES	NO	NO	YES	NO	NO	NO	N/A	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	BROKEN SOIL VISIBLE; DISPLACED BRICK; MISSING MORTAR LARGE	1828MH.pdf

NOTES:
 1. SEE SHEET G001 FOR GENERAL NOTES.
 2. ALL INLETS SHALL RECEIVE APPROVED PROTECTION AS REQUIRED FOR THE MANHOLE REPLACEMENT AND POINT REPAIR ON LINE SEGMENT 1829_1828 AT THE INTERSECTION OF S. FRASER STREET AND FRONT STREET. SEE G001 FOR SEDIMENT AND EROSION NOTES.

Legend
 REHABILITATION RECOMMENDATIONS

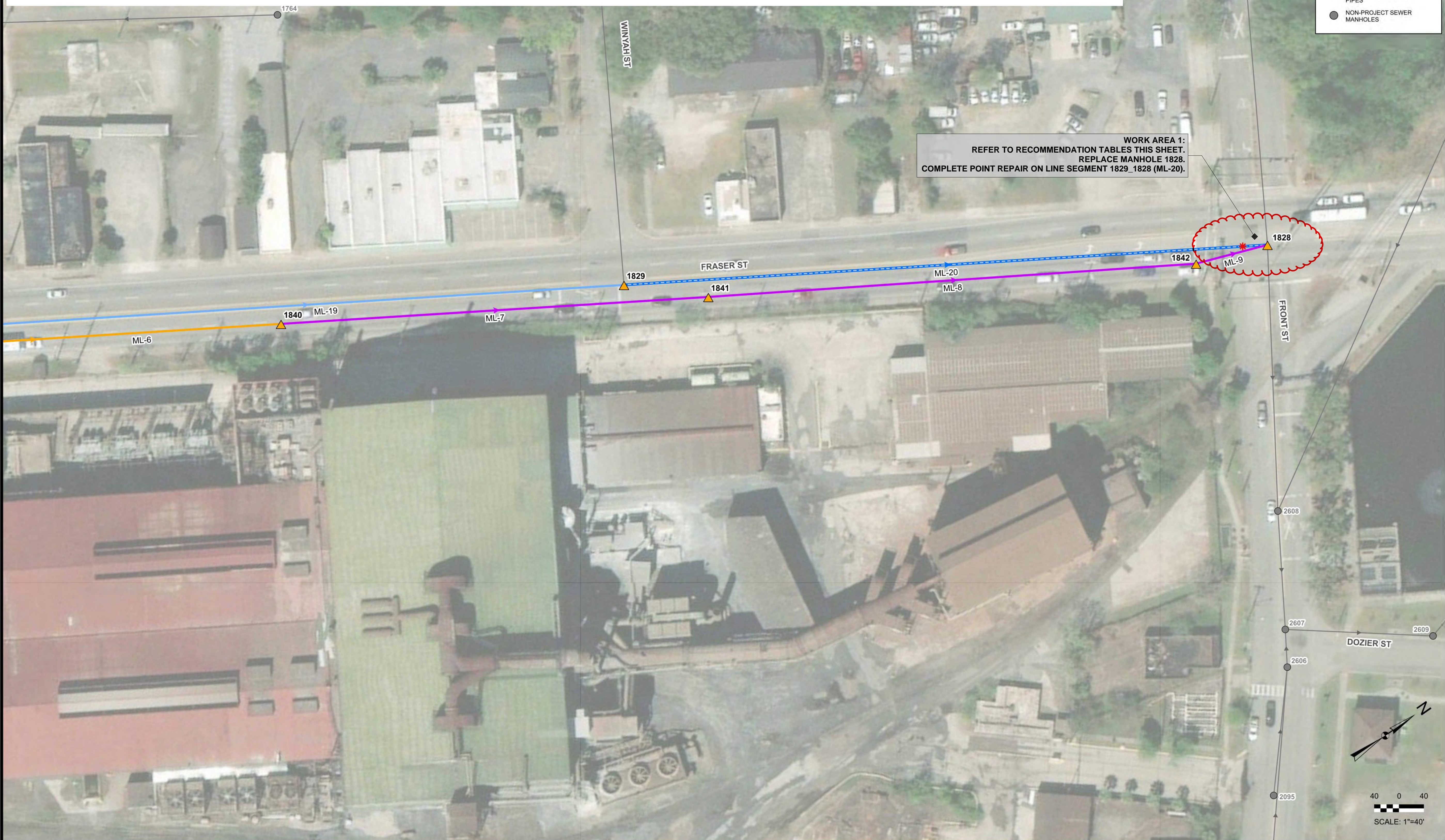
- CIPP
- POINT REPAIR W/ CIPP
- CIPP (ALTERNATE BID)
- CIPP SHORT LINER
- ▲ MH W/ REPAIR
- * APPROXIMATE POINT REPAIR LOCATION. SEE TABLES
- * PLEASE SEE REHABILITATION TABLES FOR REPAIR RECOMMENDATIONS
- NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
 CITY OF GEORGETOWN
 2377 MAYBANK DRIVE
 GEORGETOWN, SC 29440



SANITARY SEWER AND MANHOLE SURVEY
 S. FRASER STREET
 PROJECT #1818

Weston & Sampson
 Weston & Sampson Engineers, Inc.
 1201 Main Street, Suite 930
 Columbia, SC 29201
 978.532.1900 800.SAMPSON
 www.westonandsampson.com



WORK AREA 1:
 REFER TO RECOMMENDATION TABLES THIS SHEET.
 REPLACE MANHOLE 1828.
 COMPLETE POINT REPAIR ON LINE SEGMENT 1829_1828 (ML-20).

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1	1/31/24	ISSUED FOR REBID
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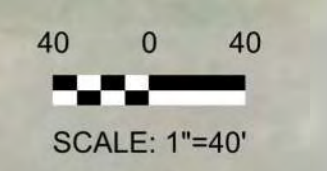
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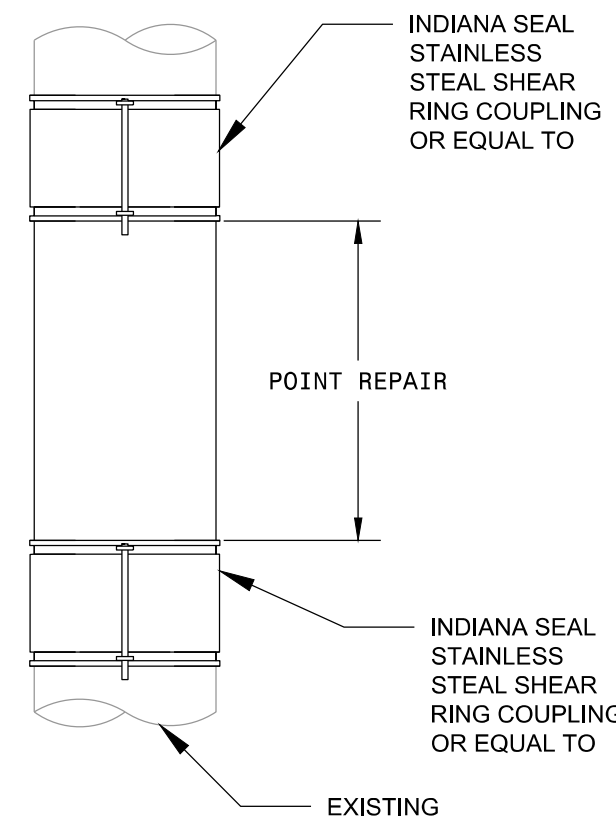
W&S Project No.: ENG23-0476
 W&S File No.:

Drawing Title:
 RECOMMENDED REHABILITATION MAP II
 S. FRASER STREET FROM BOURNE STREET TO FRONT STREET

Sheet Number:
C201

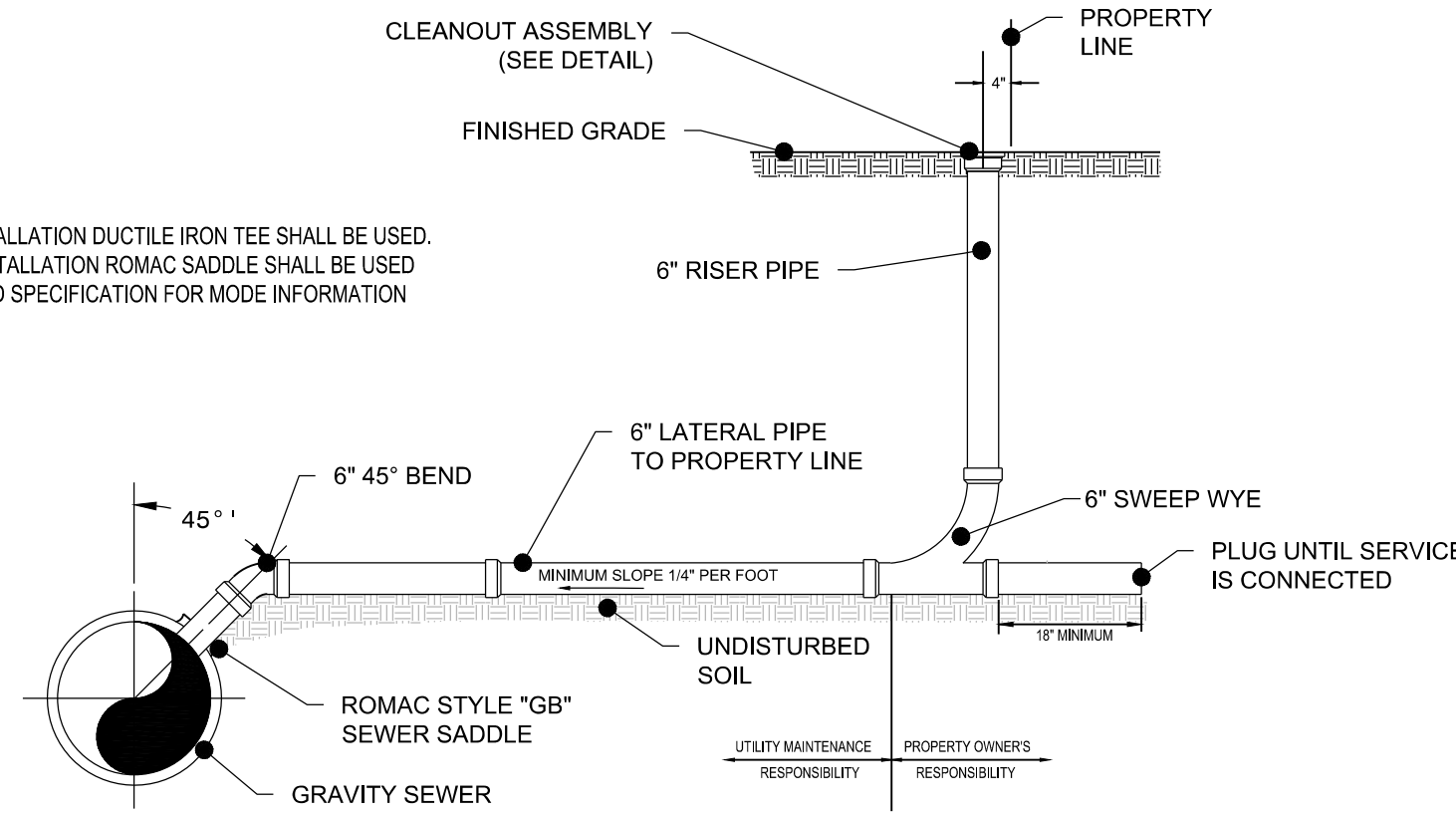


Rev. 1.8 Date: 04/10/2019

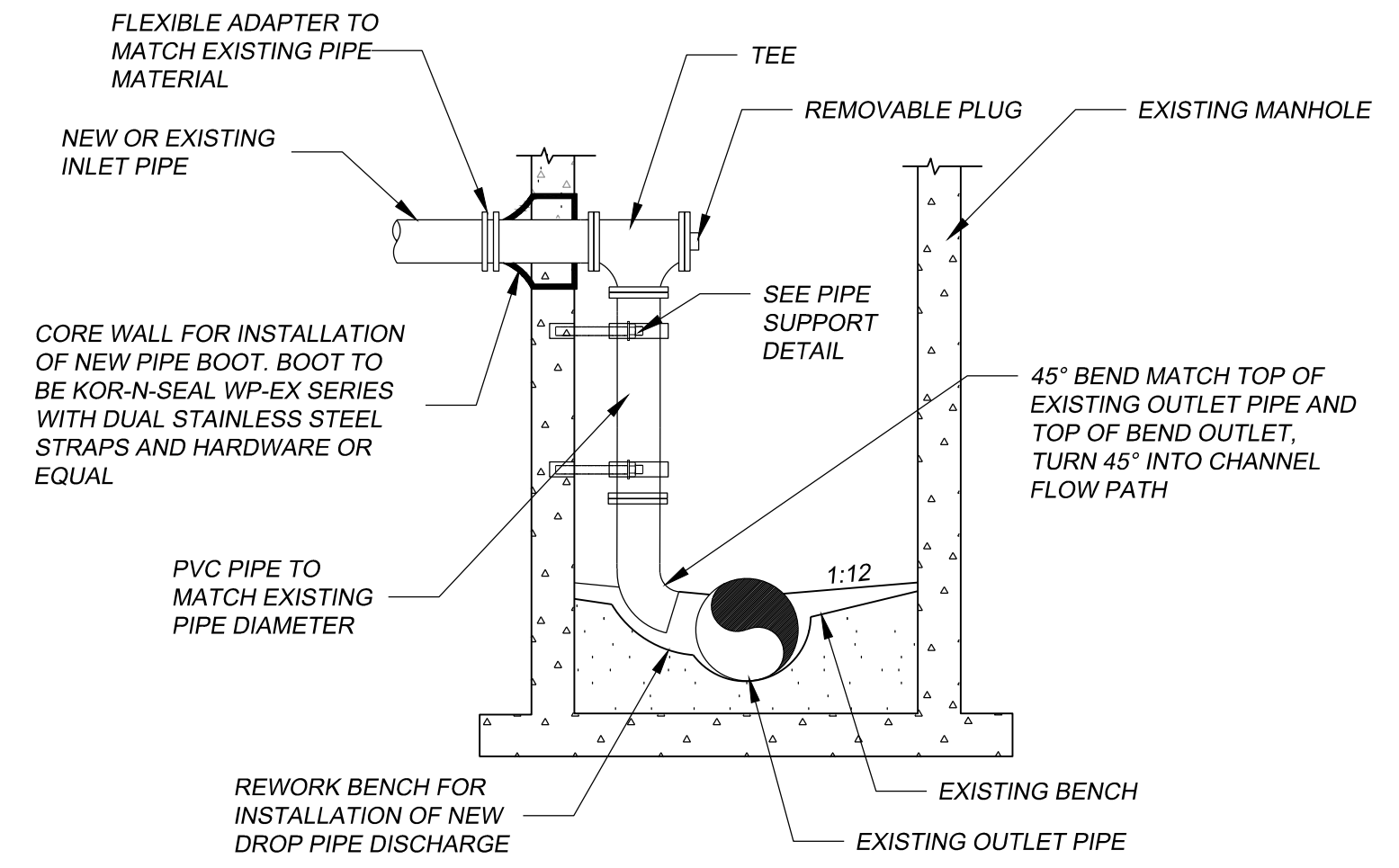


TEMPORARY POINT REPAIR FOR GRAVITY SEWER LINE

- NOTE:
1. PRE CIPP INSTALLATION DUCTILE IRON TEE SHALL BE USED.
 2. POST CIPP INSTALLATION ROMAC SADDLE SHALL BE USED
 3. SEE STANDARD SPECIFICATION FOR MORE INFORMATION



TAPPING SADDLE SANITARY SEWER LATERAL CONNECTION TO EXISTING MAIN



INSIDE DROP MANHOLE CONNECTION DETAIL

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



SANITARY SEWER and
MANHOLE SURVEY
S. FRASER STREET
PROJECT #1818

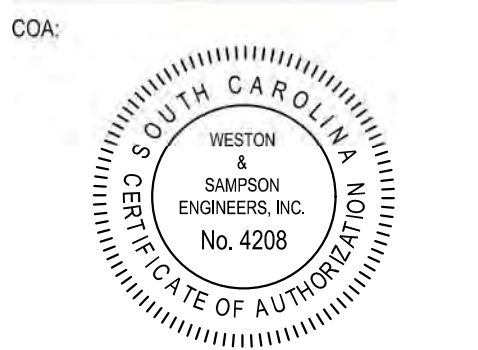
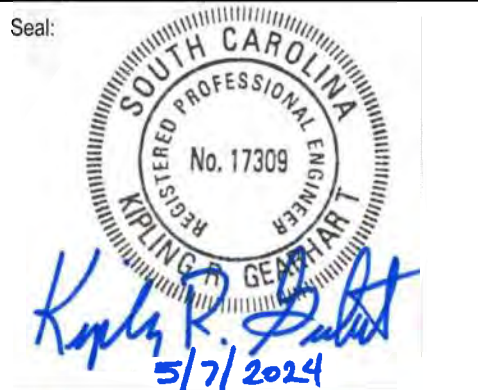


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W&S Project No.: ENG23-0476

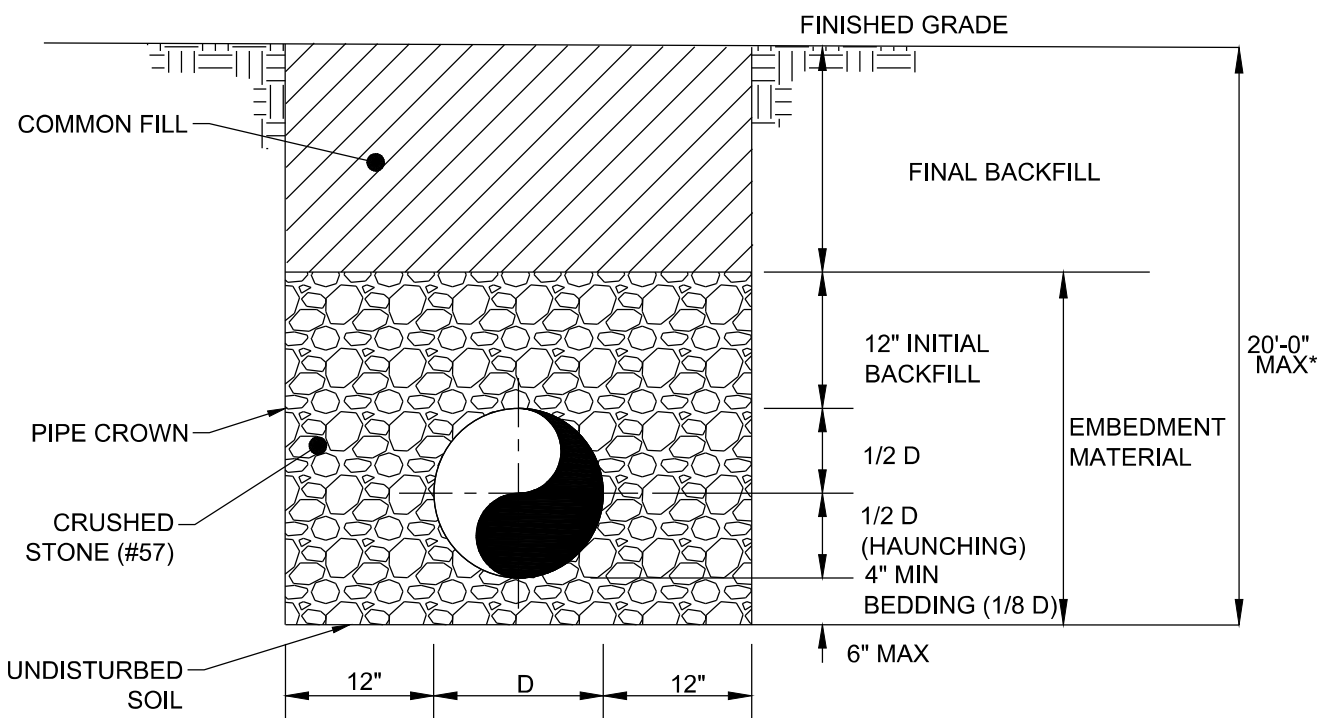
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Drawing Title:

CONSTRUCTION DETAILS

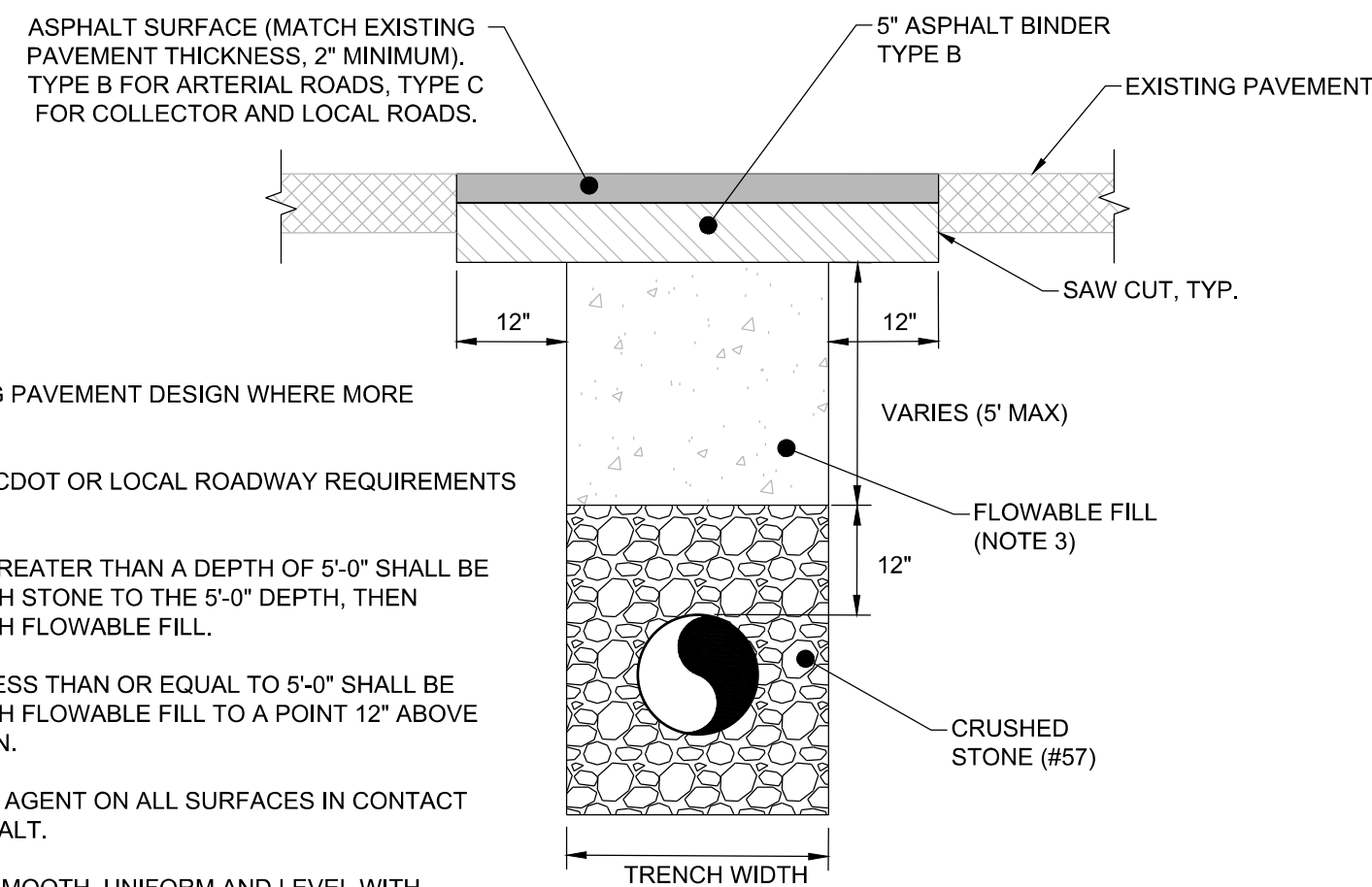
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C400



*NOTE: SPECIFIC DESIGN IS REQUIRED IF PIPE TRENCH DEPTH EXCEEDS 20'-0"

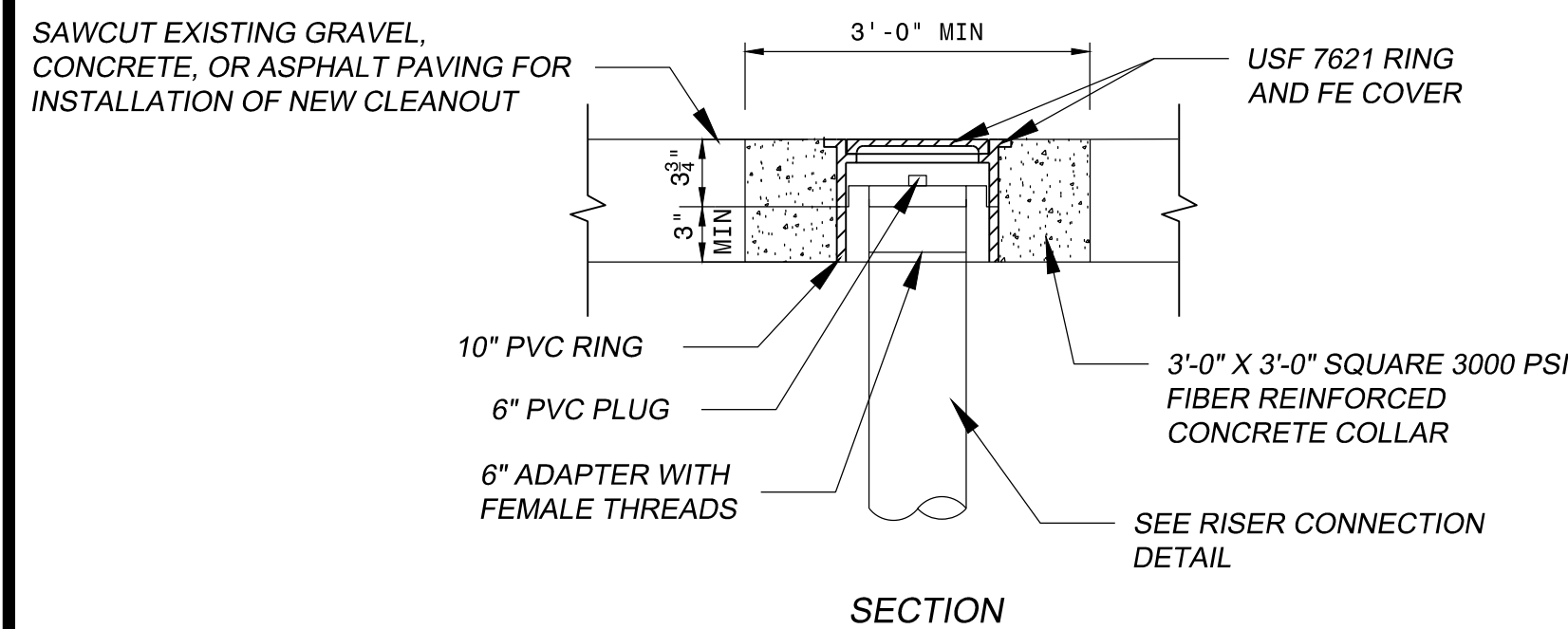
GRAVITY SEWER PIPE BEDDING



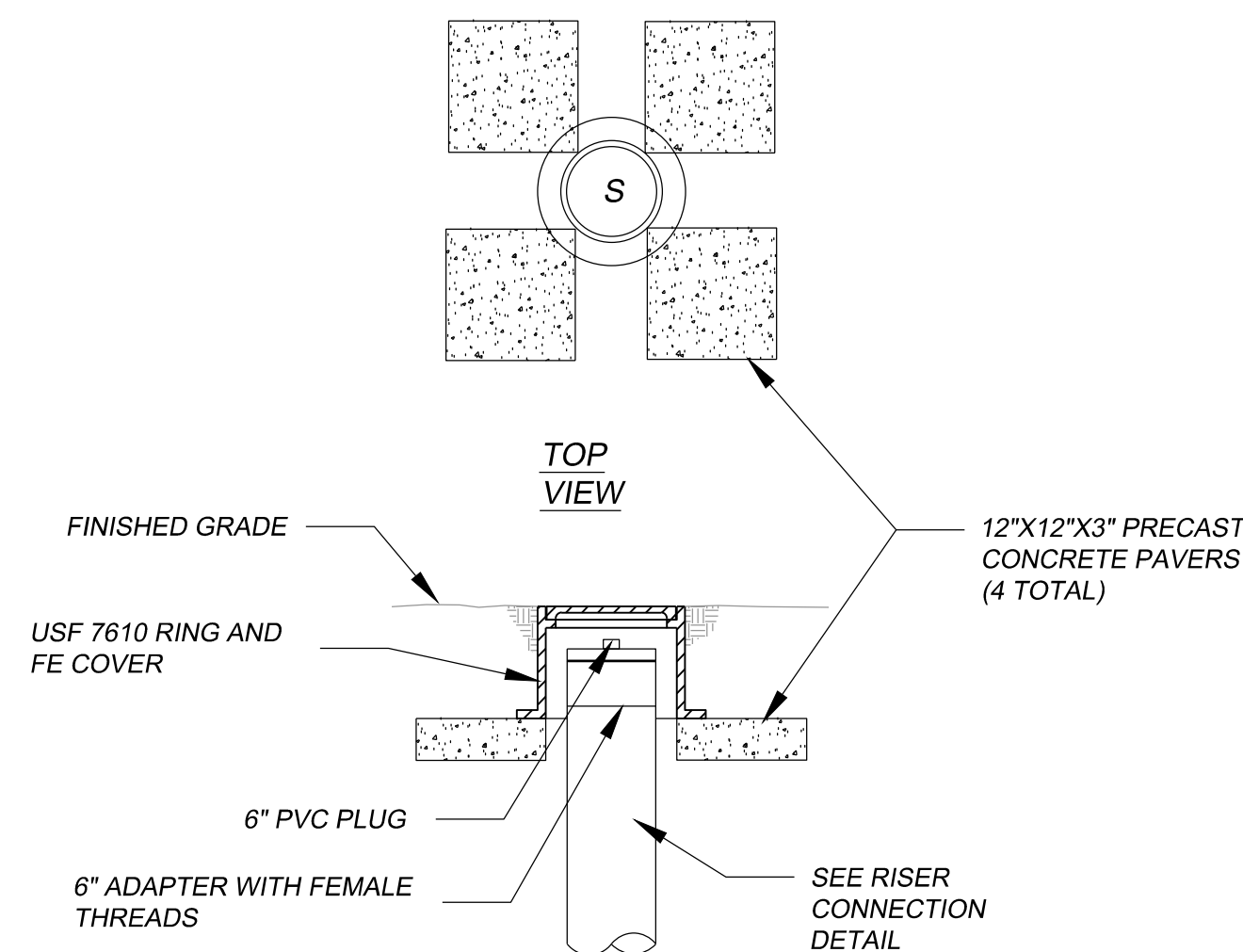
NOTES:

1. MATCH EXISTING PAVEMENT DESIGN WHERE MORE STRINGENT.
2. COMPLY WITH SCDOT OR LOCAL ROADWAY REQUIREMENTS AND PERMITS.
3. EXCAVATIONS GREATER THAN A DEPTH OF 5'-0" SHALL BE BACKFILLED WITH STONE TO THE 5'-0" DEPTH, THEN BACKFILLED WITH FLOWABLE FILL.
4. EXCAVATIONS LESS THAN OR EQUAL TO 5'-0" SHALL BE BACKFILLED WITH FLOWABLE FILL TO A POINT 12" ABOVE THE PIPE CROWN.
5. APPLY BONDING AGENT ON ALL SURFACES IN CONTACT WITH NEW ASPHALT.
6. ROLL ASPHALT SMOOTH, UNIFORM AND LEVEL WITH EXISTING PAVEMENT.
7. ENSURE EDGE OF TRENCH BEYOND SAW CUT SURFACE IS NOT UNDERMINED.

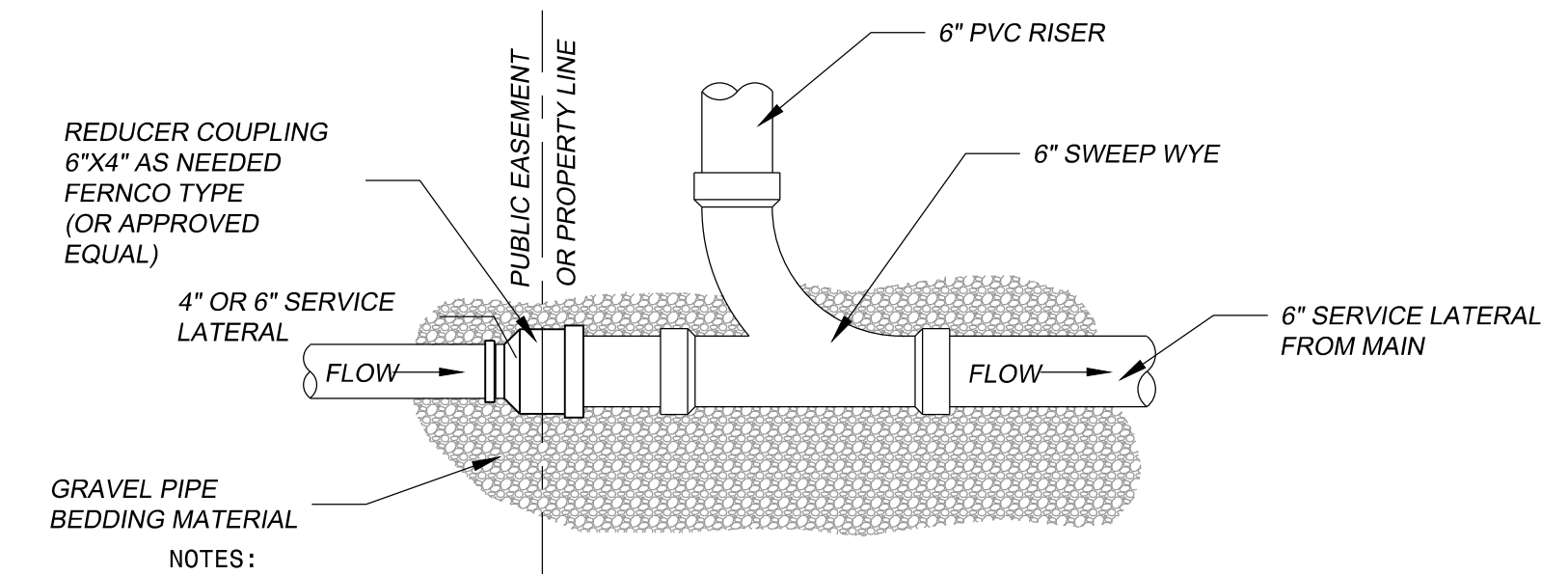
SCDOT OR EQUAL ASPHALT PAVEMENT REPLACEMENT IN ALL ROADWAYS



CLEANOUT ASSEMBLY DETAIL FOR SIDEWALK OR PAVED AREA INSTALLATION

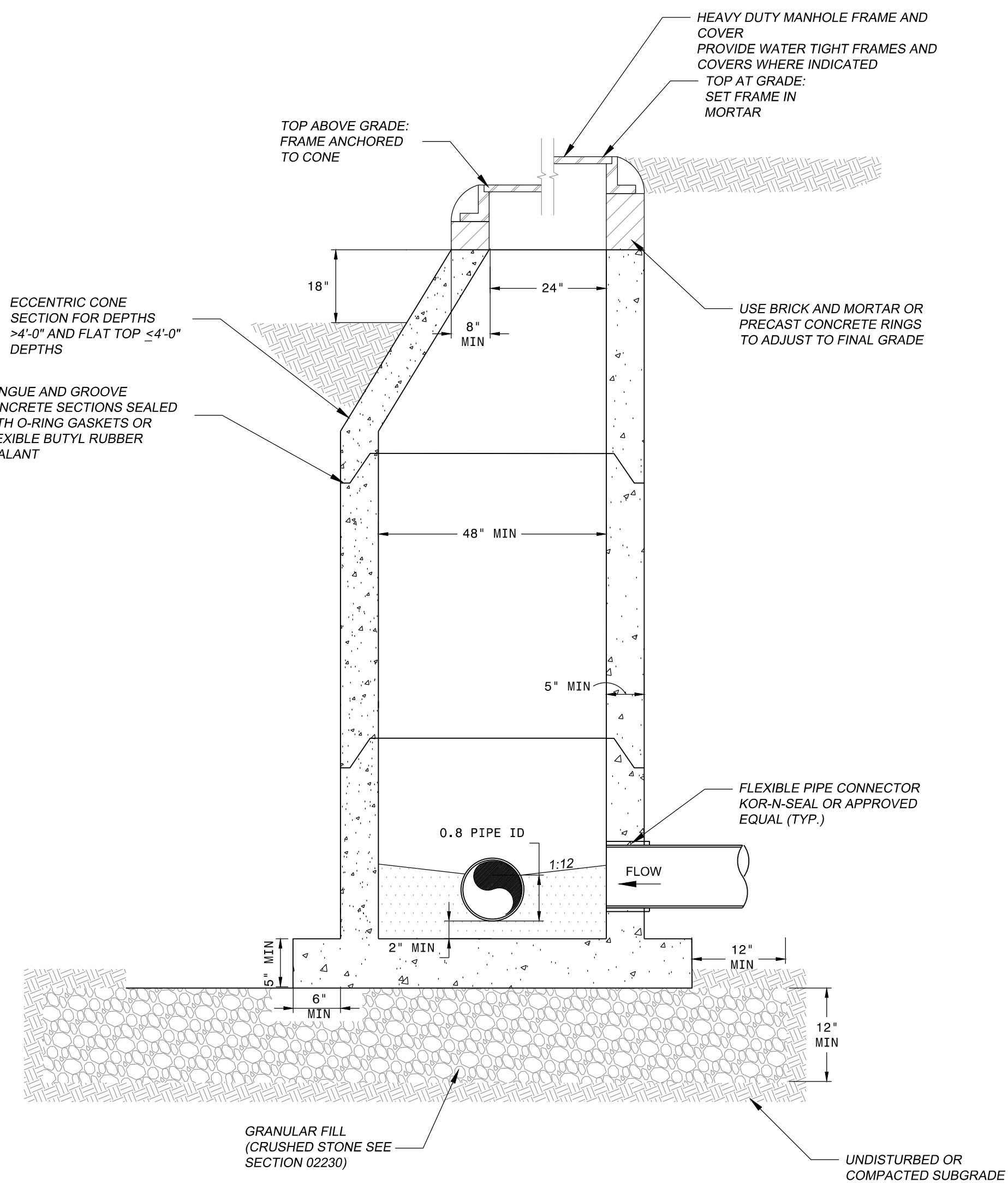


CLEANOUT ASSEMBLY DETAIL FOR GRASSED AREA INSTALLATION



- NOTES:
1. ALL FITTINGS AND LINES TO BE SCHEDULE 40 PVC, SOLVENT WELD (SDR-35).
 2. SEE CITY SPECIFICATION 02761 FOR MORE DETAIL.
 3. REPAIRS ON CLEANOUTS LOCATED WITHIN THE CITY RIGHT OF WAY SHALL INCLUDE BRINGING CLEANOUT CAP TO GRADE.
 4. PROVIDE ADDITIONAL BENDS AS NEEDED TO AVOID CONFLICTS AND MAKE CONNECTION.
 5. PROVIDE ALL ADAPTERS AND COUPLINGS REQUIRED TO CONNECT TO EXISTING SERVICE LATERAL, REGARDLESS OF SIZE OR MATERIAL.
 6. FOR NEW SERVICE LATERAL INSTALLATION FROM MAIN LINE PROVIDE A MINIMUM OF 0.01 FT/FT SLOPE UNLESS OTHERWISE REQUIRED BY STATE OR LOCAL CODES.
 7. COMPLY WITH ALL PERTINENT SECTIONS OF THE CITY OF COLUMBIA STANDARD SPECIFICATIONS.

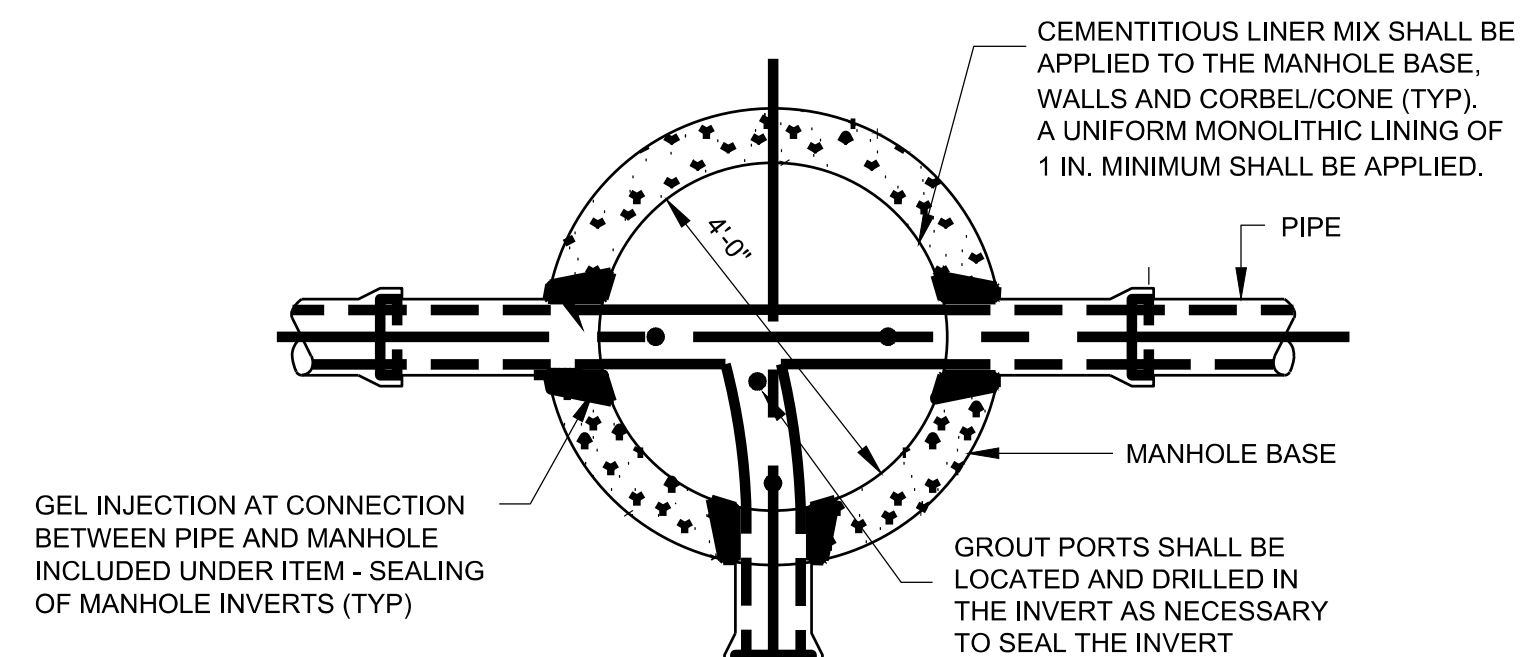
RISER CONNECTION DETAIL



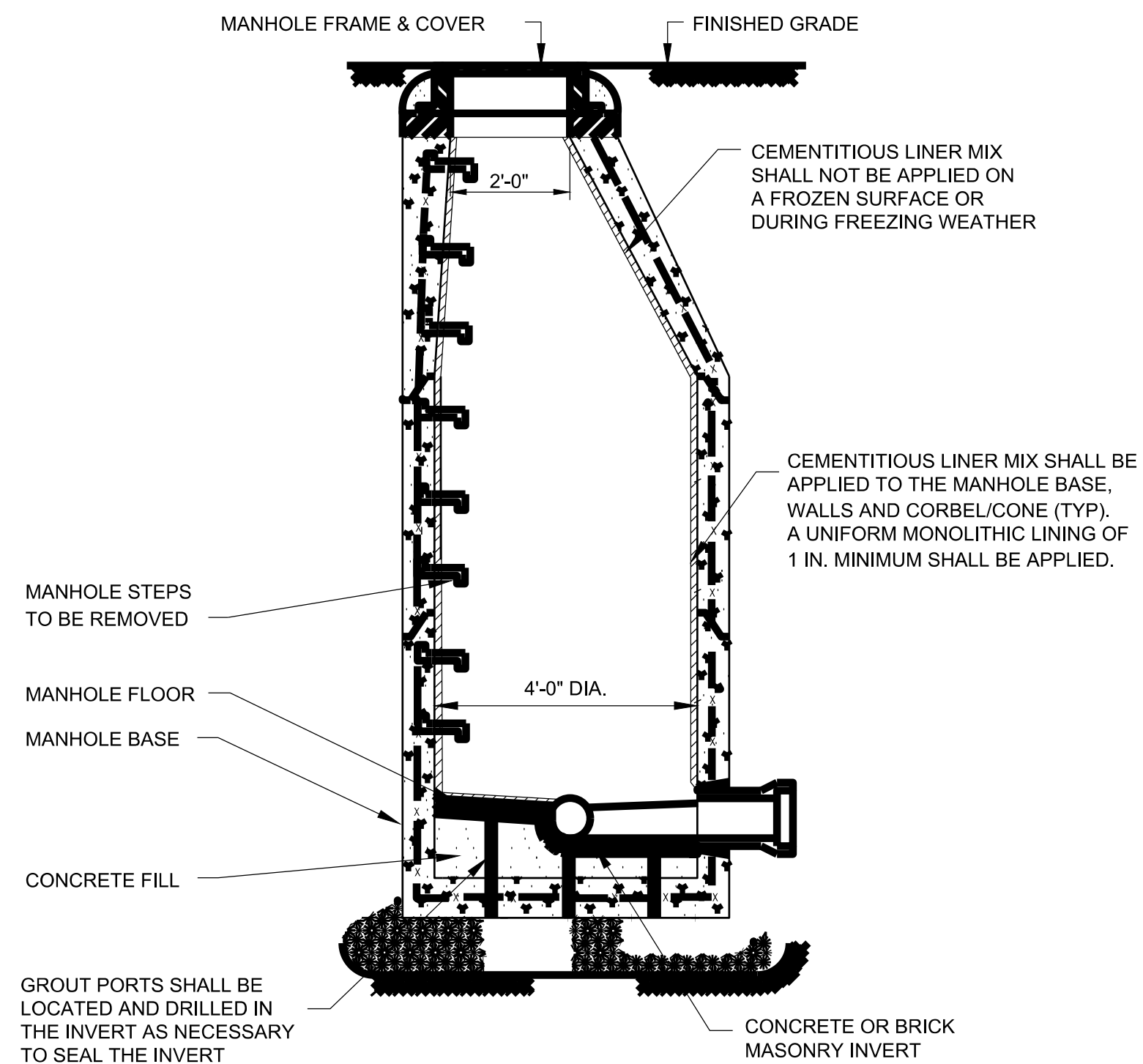
NOTES:

1. CONTRACTOR TO PROVIDE 7" EXTERIOR JOINT WRAP ON ALL JOINTS. JOINT WRAP SHALL BE MACWRAP BY MAR-MAC, OR EQUAL.
2. CONTRACTOR SHALL COMPLY WITH SCDOT EXCAVATION AND BACKFILL REQUIREMENTS.
3. MANHOLE EXCAVATION SHALL BE BACKFILLED WITH STONE TO 5' DEPTH, THEN BACKFILL WITH FLOWABLE FILL.
4. PLACE 12" OF ROAD BASE MATERIAL.
5. PLACE 10" OF SCDOT HMA PATCH FLUSH WITH EXISTING PAVEMENT.

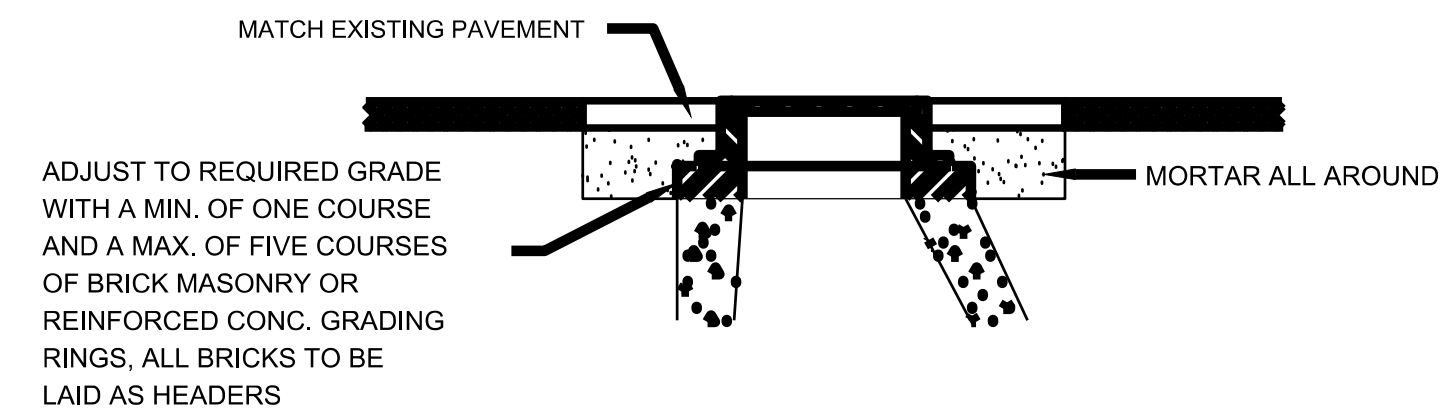
PRECAST CONCRETE MANHOLE DETAIL



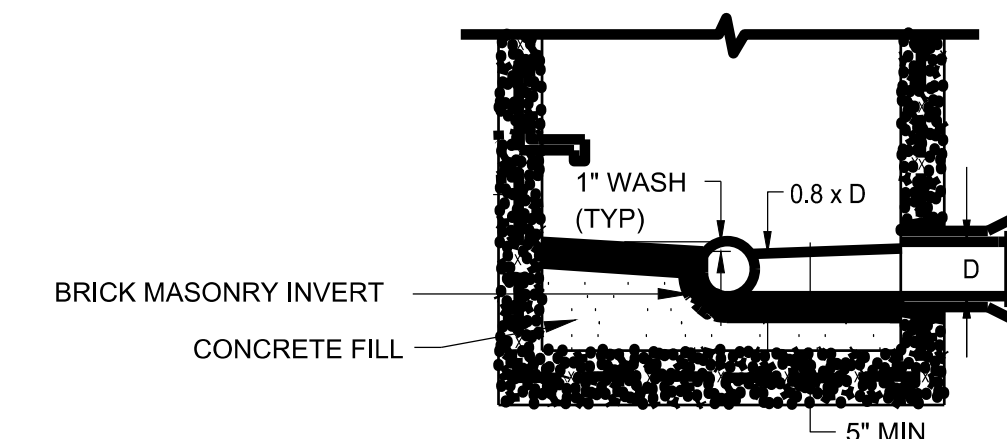
4'-0" DIA. MANHOLE SEALING PLAN



BRICK, BLOCK OR CONCRETE MANHOLE SEALING DETAIL



FURNISH AND INSTALL MANHOLE FRAME AND COVER PAVEMENT REPLACEMENT DETAIL



SEWER MANHOLE BENCH AND INVERT DETAIL

Project:
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SANITARY SEWER and
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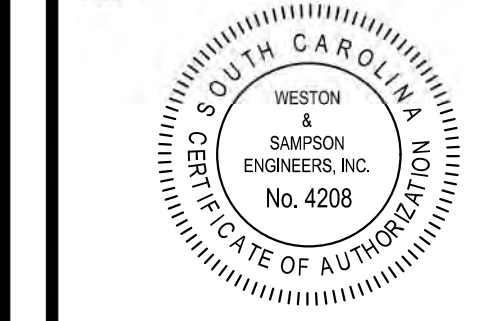
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Reviewed By: WF

Approved By: KG

W&S Project No.: ENG23-0476

W&S File No.:

Drawing Title:

CONSTRUCTION DETAILS

Sheet Number:

C401



- TRAFFIC CONTROL NOTES:**
1. POSTED SPEED LIMIT ALONG S. FRASER STREET (US HWY. 17) IS 35 MPH.
 2. TRAFFIC CONTROL PLAN IS FOR INFORMATIONAL USE ONLY. CONTRACTOR SHALL SUBMIT FULL TRAFFIC CONTROL PLAN TO SCDOT FOR APPROVAL 3 WEEKS PRIOR TO BEGINNING WORK.
 3. TRAFFIC CONTROL SETUP SHALL CONFORM TO SCDOT STANDARD DRAWINGS SECTION 610-000, LATEST EDITION.
 4. ADVANCED WARNING SIGNS NOT SHOWN. SIGNS AND SPACING SHALL CONFORM TO SCDOT STANDARD DRAWINGS SECTION 610-000, LATEST EDITION.
 5. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE MINIMUM REQUIREMENTS OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

Project:
 CITY OF GEORGETOWN
 2377 MAYBANK DRIVE
 GEORGETOWN, SC 29440

SANITARY SEWER and
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 S. FRASER STREET
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Drawing Title:
TRAFFIC CONTROL LAYOUT

Sheet Number:
TC100

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Rev: 1.6 Date: 04/10/2019



TRAFFIC CONTROL NOTES:

1. DETOUR PLAN IS FOR INFORMATIONAL USE ONLY. CONTRACTOR SHALL SUBMIT FULL DETOUR PLAN TO SCDOT FOR APPROVAL 3 WEEKS PRIOR TO BEGINNING WORK.
2. DETOUR SETUP SHALL CONFORM TO SCDOT STANDARD DRAWINGS SECTION 610-600, LATEST EDITION.
3. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE MINIMUM REQUIREMENTS OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

Project:
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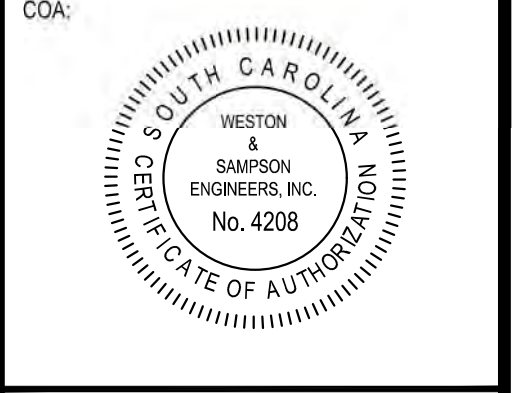
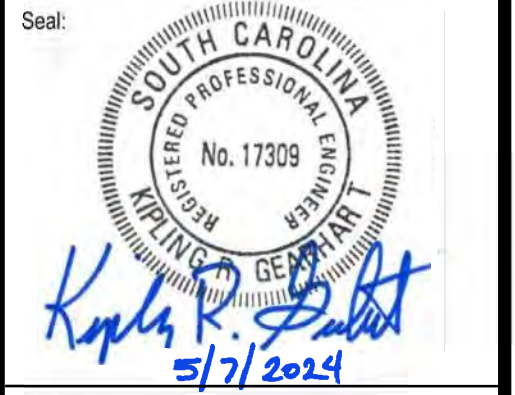


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DETOUR PLAN LAYOUT

Sheet Number:
TC101