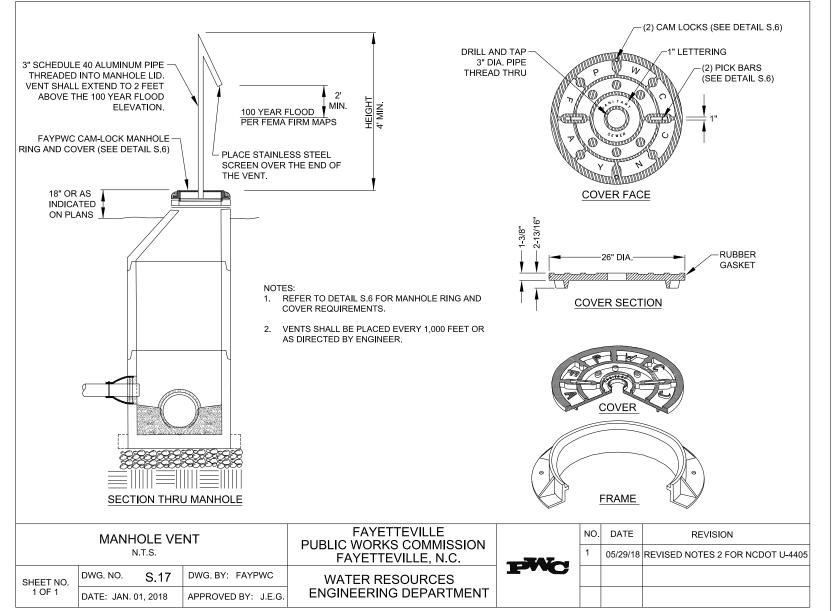


SELF-RESTRAINED PE/MJ —
ADAPTERS, NSF APPROVED
FOR POTABLE WATER WITH SE
SLEEVE INSERTS. ADAPTORS
TO BE COMPATIBLE TO
SPECIFIED OR RATING AS
SPECIFIED OR INDICATED ON
THE DRAWINGS. ADAPTER
SHALL BE PE/MJ TRANSITION.



ECCENTRIC MANHOLE CONES MAY BE USED ON 8" AND 10" SEWER MAINS. FLA TOP MANHOLES MAY BE REQUIRED. CONTRACTOR TO REFERENCE PLANS

MIN 8" WIDE BUTYL

RUBBER SEAL ON ALL BELOW-GRADE JOINTS

CONCRETE COLLAR

POSSIBLE - SEE NOTE 6

FOR EXISTING

REVISION

REVISED PER NCDOT COMMENTS (U-4405)

ALL AROUND, SEE

ALL WORK AND MATERIALS TO BE IN

MANHOLE WITH A TYPICAL CHIMNEY

CONTRACTOR TO MEASURE THE INSIDE

SELECT APPROPRIATE DIAMETER OF NEW

CONTRACTOR TO REMOVE EXISTING WALLS

TO SOLID STRUCTURE (TO AT LEAST BELOW

THEIR SPECIFIED LOCATION. THE LIMITS OF

THE CONE OR CHIMNEY SECTION) OR TO

REMOVAL SHALL BE APPROVED BY THE

ALSO REMOVE EXISTING FRAMES AND

DISPOSE OF ALL MATERIALS OFF-SITE.

COVER, VENT PIPES AND ALL

THE MANHOLE TO THE

ENGINEER IN THE FIELD, CONTRACTOR TO

APPURTENANCES, ETC. CONTRACTOR TO

CONE SECTIONS AS NECESSARY TO EXTEND

SPECIFIED/APPROVED ELEVATION. THE

FINAL ELEVATION MAY BE HIGHER THAN

ELEVATION. THIS DETAIL ILLUSTRATES A

SHALL DETERMINE THE REQUIRED RISER

APPROVE FINAL ELEVATIONS IN THE FIELD.

BOTTOM RISER TO BE PROVIDED WITH A

HIGHER ELEVATION THE CONTRACTOR

AND CONE HEIGHTS TO MEET THE

FLAT JOINT UNLESS OTHERWISE

CONTRACTOR TO INSTALL NEW RISER

PROVIDE A LEAK-TIGHT JOINT. THE CONTRACTOR SHALL PERFORM ALL WORK

SECTION/EXISTING WALL JOINT TO BE

NECESSARY TO PROVIDE A LEAK-TIGHT

SEAL, WHERE POSSIBLE, BUTYL RUBBER

NEW RISER SECTION. IN ALL CASES, A

CONCRETE COLLAR SHALL BE POURED

SEAL JOINT WITH NON-SHRINK GROUT.

GROUT TO COMPLETELY FILL JOINT AND

SHALL EXTEND AT LEAST 6 INCHES EACH

SIDE OF JOINT ALL AROUND. GROUT TO BE

RAISE AND REPLACE EXISTING MANHOLE

SHEET NO. SCALE: NOT TO SCALE DWG. BY: WKD

BELOW THE JOINT. GROUT TO BE

1 OF 1 DATE: 5/18/2015

HDPE SDR 9 UNLESS OTHERWISE SPECIFIED OR INDICATED

ON DRAWINGS (ALL DIAMETERS SHOWN ARE

INSIDE UNLESS OTHERWISE INDICATED).

1. A PROFILE AND PLAN SHALL BE PROVIDED FROM ENTRY TO EXIT FOR EACH DIRECTIONAL BORE SECTION BY THE DIRECTIONAL BORE CONTRACTOR.

2. ALL BORE SECTIONS SHALL BE HYDROSTATICALLY TESTED, PER SPECIFICATIONS UPON COMPLETION OF INSTALLATION AND PRIOR TO CONNECTION TO THE MAIN WATER LINE.

3. LENGTH OF CROSSING, LOCATION OF INSPECTION/OBSERVATION EXCAVATION, NUMBER OF P.E. PIPE JOINTS, LOCATION OF BORE MACHINE, AUGER ENTRANCE LOCATION, AND TIE—IN POINTS ARE TO BE APPROVED BY ENGINEER PRIOR TO ANY START OF WORK OR ORDERING MATERIALS.

4. THE BORE DEVELOPED FOR THE LEAD IN END OF THE PIPE SHALL BE KEPT AT A MINIMUM DIAMETER FOR THE PIPE INSTALLATION. THE LEAD IN END SHALL BE INSTALLED AFTER THE PIPE INSTALLATION WITH THE USE OF A SPLIT M.J. FLANGE.

5. IF BURIED OBSTRUCTIONS ARE LOCATED IN THE LENGTH OF THE DIRECTIONAL BORE, DIRECTIONAL BORE CONTRACTOR SHALL AVOID CONFLICT WITH THESE OBSTRUCTIONS BY GOING UNDER A MINIMUM OF 12" WITH PROPOSED PIPE UNLESS OTHERWISE SPECIFIED OR IDENTIFIED IN GENERAL NOTES ON SHEET, OR IN SPECIFICATIONS.

6. A MINIMUM OF 3 JOINTS OF RESTRAINED JOINT DUCTILE IRON PIPE ON BOTH SIDES OF THE SELF-RESTRAINED ADAPTER/FITTING SHALL BE PROVIDED. RESTRAINED JOINT DUCTILE IRON PIPE, THRUST COLLAR AND RESTRAINED MECHANICAL COUPLINGS ARE ACCEPTABLE DEVICES TO RESTRAIN APPROACH PIPE SECTIONS.

RESISTANT TO HYDROGEN-SULFIDE.

AROUND THE JOINT. COLLAR TO BE MINIMUM 6 INCHES WIDE AND 12 INCHES

SEALANT SHALL BE PROVIDED UNDER THE

HIGH CENTERED ON JOINT ALL AROUND. ON

THE INSIDE OF THE JOINT, CONTRACTOR TO

APPROVED.

LOWER THAN OR EQUAL TO THE EXISTING

CONTRACTOR TO INSTALL NEW RISER AND REMOVE PORTION

SPECIFIED ELEVATION. ENGINEER SHALL EXISTING MANHOL

DIAMETER OF EXISTING MANHOLE TO

THIS DETAIL DEPICTS AN EXISTING BRICK

SOLID OR WATERTIGHT

MANHOLE, SEE NOTES 3&4

FILL INSIDE JOINT

GROUT, SEE NOTE

DIRECTED ON PLANS

REQUIRED

DIAMETER VARIES

RAISE AND REPLACE EXISTING MANHOLE

NO. DATE

PATH AND FILENAME:

1 7/24/2018

ACCORDANCE WITH THE UTILITY

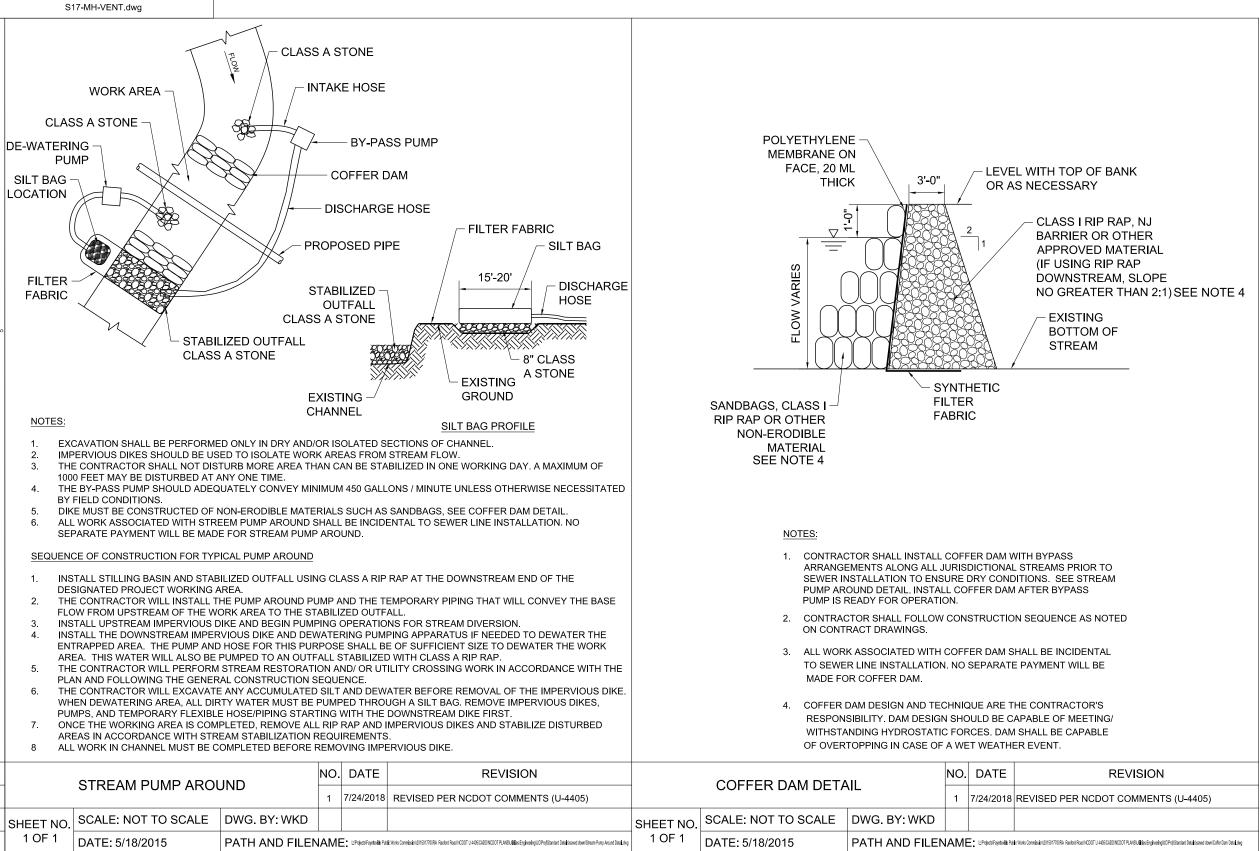
SPECIAL PROVISIONS.

PROJECT REFERENCE NO. SHEET NO. U−4405 UC-03Q DESIGNED BY: AMH DRAWN BY: AMH/AB CHECKED BY: AMH APPROVED BY: MWF 025490 REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION Mark W. Justy JTILITIES ENGINEERING SEC PHONE:(919)707-6690 FAX:(919)250-4151

UTILITY CONSTRUCTION

## NOTE:

ANY REFERENCE TO FAYPWC PROJECT COORDINATOR, PWC COORDINATOR OR FAYPWC (FAYETTEVILLE PUBLIC WORKS COMMISSION) SHALL BE INTERPRETTED AS A REFERENCE TO THE ENGINEER.



## NOTE:

COFFER DAM AND STREAM BYPASS PUMP AROUND SHALL BE INCIDENTAL TO THE SEWER LINE CONSTUCTON. NO SEPARATE PAYMENT SHALL BE MADE FOR ITS INSTALLATION, UPKEEP AND REMOVAL.