WHISKEY BOTTOM ROAD PUMPING STATION PRV UPGRADE

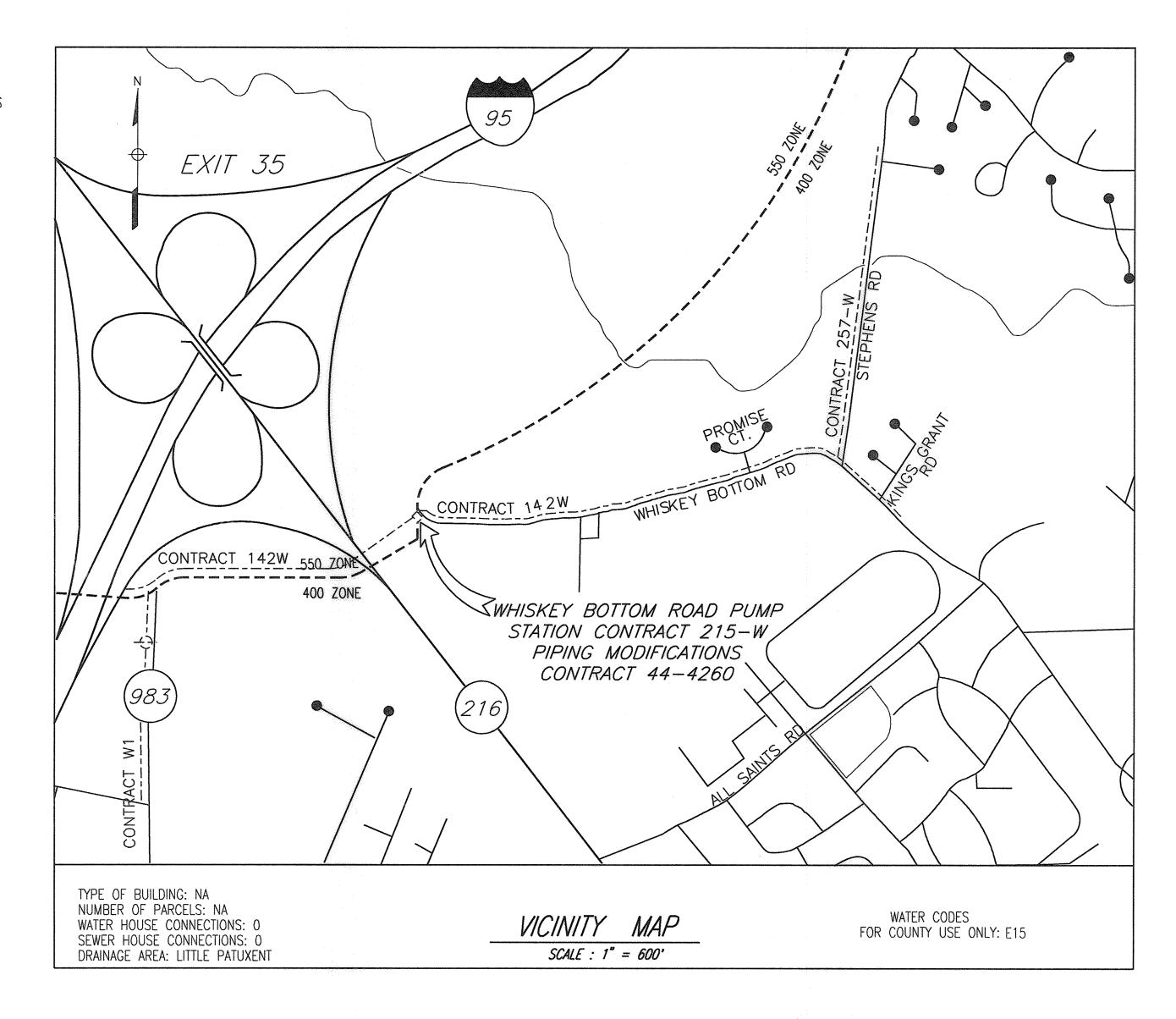
CONTRACT NO. 44-4260

CAPITAL PROJECT NO. W-8270C

HOWARD COUNTY, MARYLAND

INDEX OF DRAWINGS

SHEET NO.	DRAWING NO.	DESCRIPTION
1	G-1	TITLE SHEET - VICINITY MAP, INDEX OF DRAWINGS, AND GENERAL NOTES
2	C-1	SITE PLAN
3	ME-1	DEMOLITION AND INSTALLATION PLANS
4	ME-2	SECTIONS AND SCHEMATICS
5	ME-3	DETAILS



GENERAL NOTES

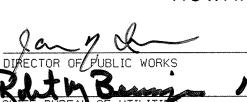
- 1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 83.
- 3. ALL VERTICAL CONTROLS ARE BASED ON NAVD 29.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM, OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF THE POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWAR COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- 8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS

AT&T	1-800-526-2000
BGE (CONTRACTOR SERVICES)	410-850-4620
BGE (UNDERGROUND DAMAGE CONTROL)	410-787-9068
BUREAU OF UTILITIES	410-313-4900
BELL ATLANTIC MARYLAND, INC	1-800-621-9900
COLONIAL PIPELINE CO	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533

- 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 10. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER AND SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH THE DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- 12. ALL WATER MAINS SHALL BE D.I.P. CLASS 53 UNLESS OTHERWISE NOTED.
- 13. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'- 6" OF COVER UNLESS OTHERWISE NOTED.
- 14. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 15. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 16. FIRE HYDRANTS SHALL BE SET TO BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- 17. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

45.31

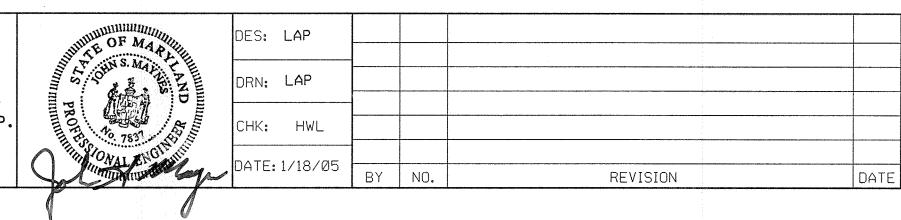
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND.



GHIEF, BUREAU OF ENCHOPERING DATE

CHIEF HILLITY DESIGN DIVISION DATE

Whitman, Requardt and Associates, LLF 801 South Caroline Street Baltimore, Md. 21231 410-235-3450



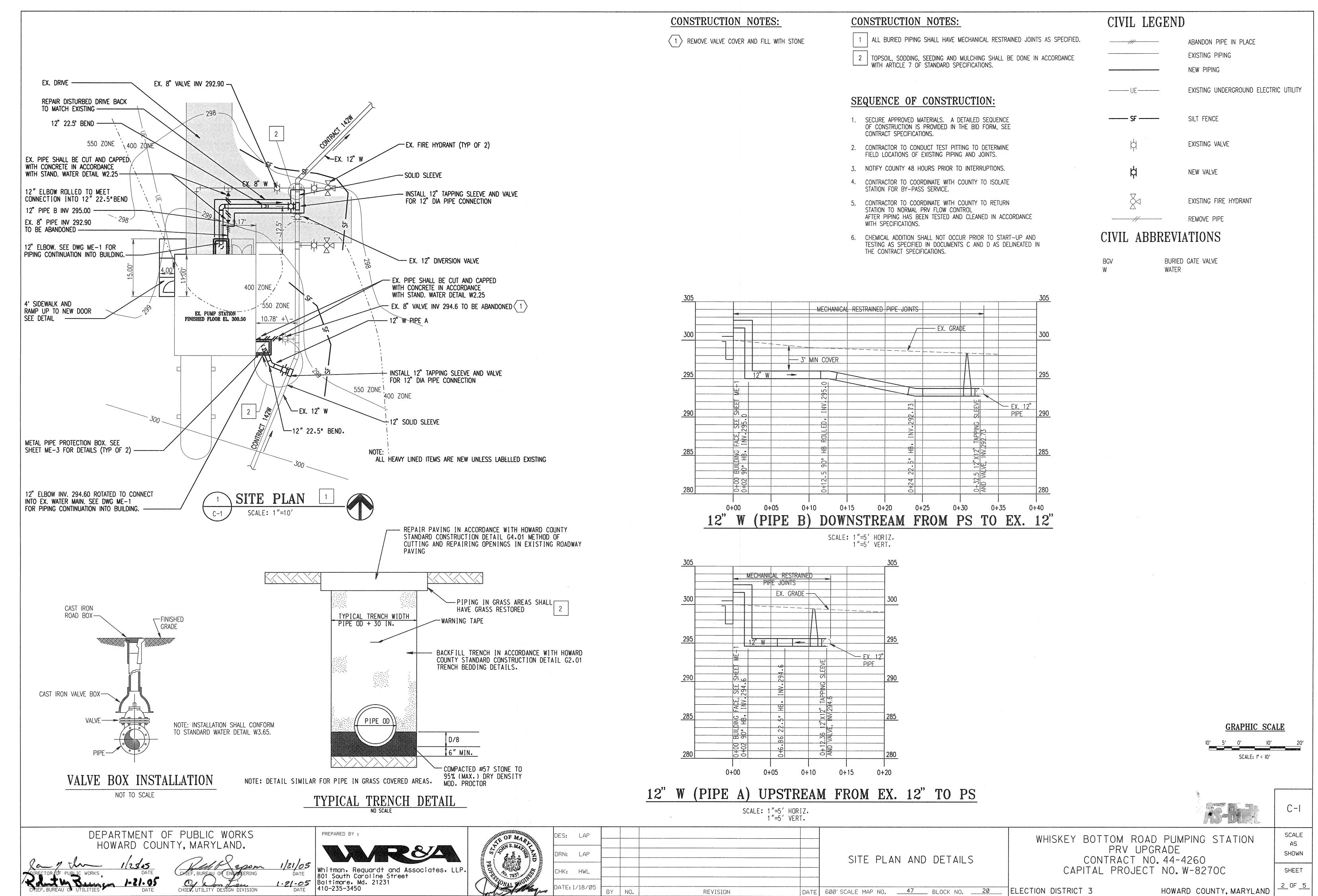
TITLE SHEET- VICINITY MAP, INDEX OF DRAWINGS, AND GENERAL NOTES

WHISKEY BOTTOM ROAD PUMPING STATION
PRV UPGRADE
CONTRACT NO. 44-4260
CAPITAL PROJECT NO. W-8270C

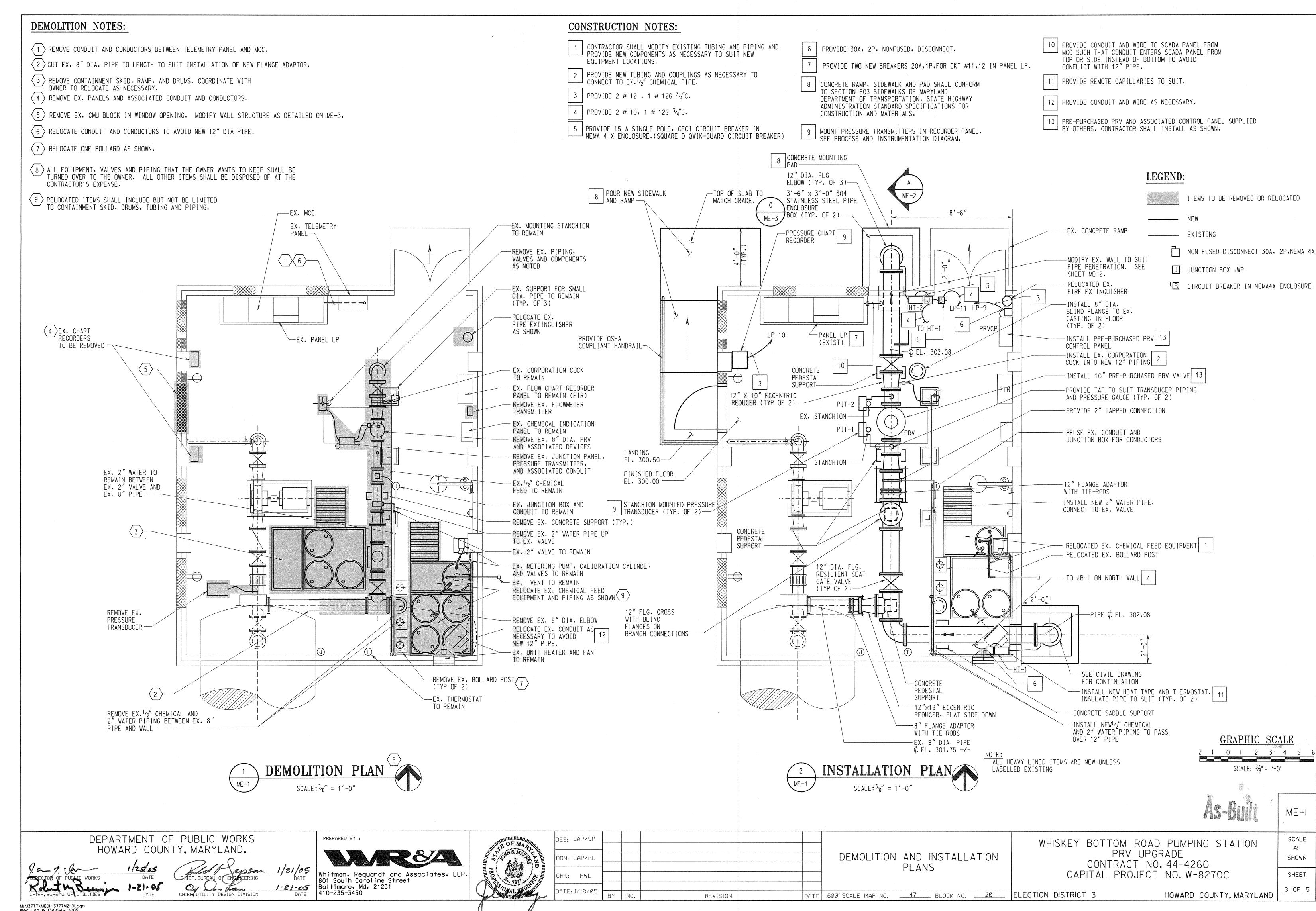
AS SHOWN SHEET

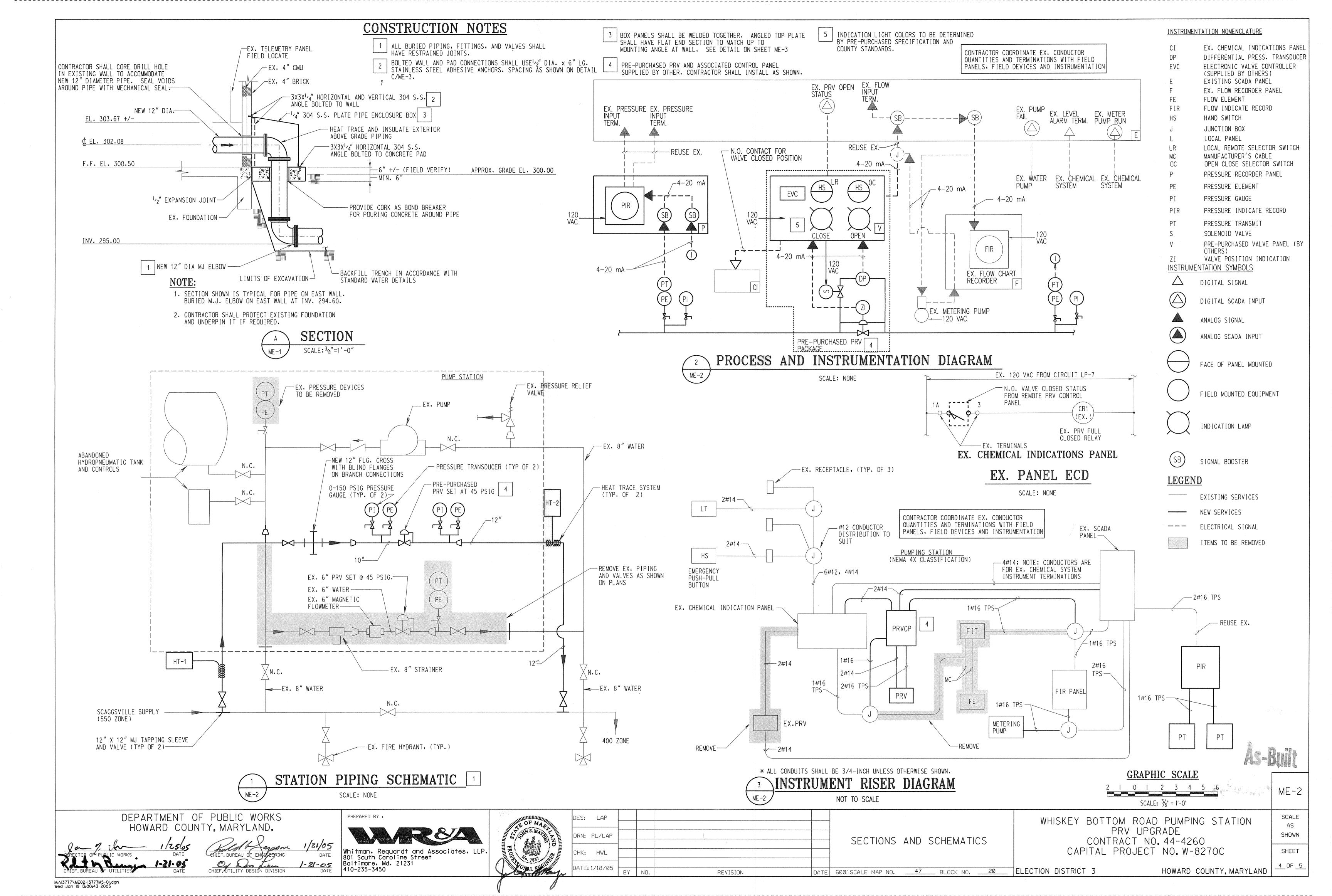
SCALE

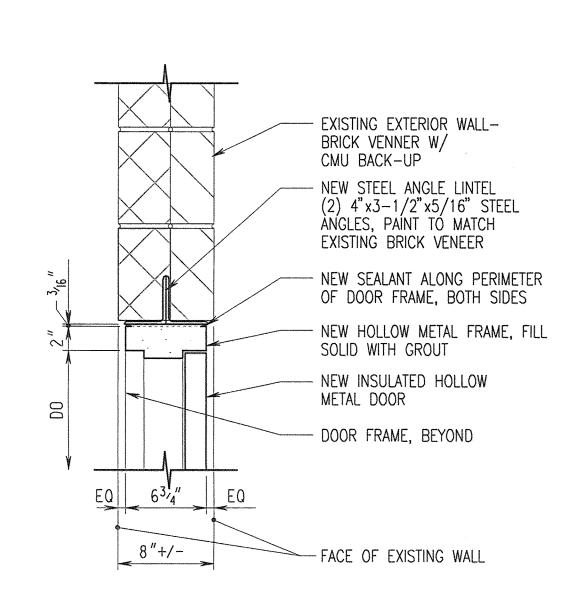
DATE 600' SCALE MAP NO. 47 BLOCK NO. 20 ELECTION DISTRICT 3 HOWARD COUNTY, MARYLAND



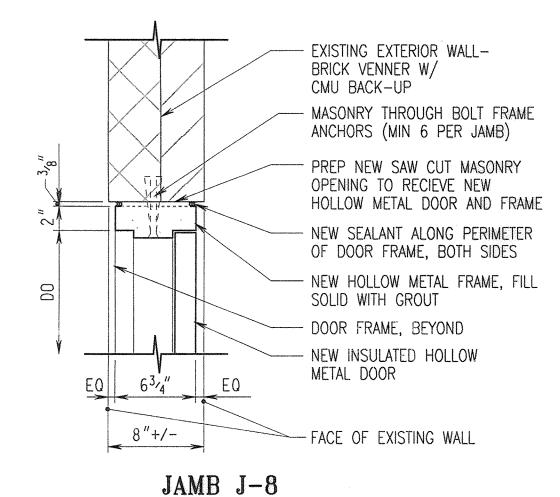
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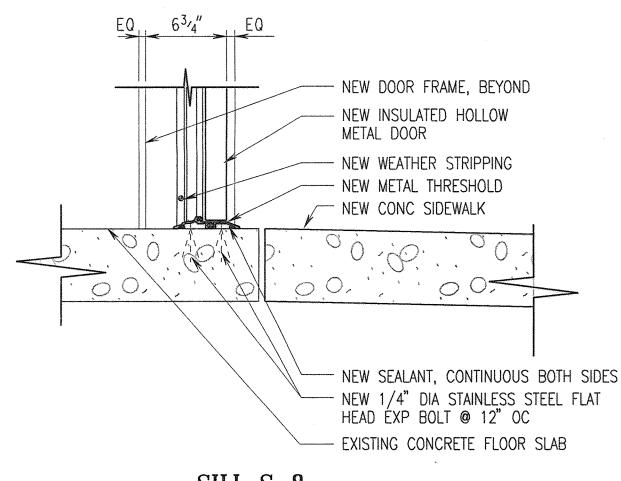






HEAD H-8

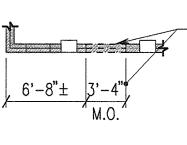




SILL S-8



NOTE: SEE DOOR HARDWARE AND STEEL DOOR & FRAME SPECIFICATIONS ON THIS SHEET



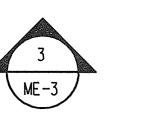
-SAW CUT AND REMOVE EXISTING BRICK VENEER AND CMU BACK-UP WALL UP TO 7'-2" ABOVE FINISHED FLOOR. PREP OPENING TO RECEIVE NEW HOLLOW METAL DOOR AND FRAME

SAW CUT AND REMOVE

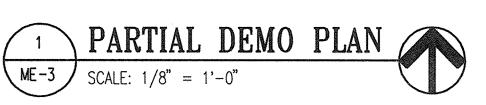
AND FRAME

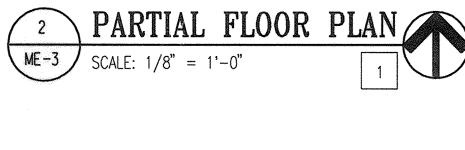
EXISTING BRICK VENEER AND CMU BACK-UP WALL

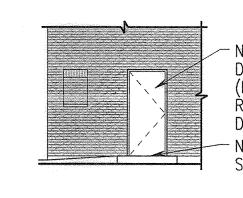
PREP OPENING TO RECEIVE NEW HOLLOW METAL DOOR



6'-8"±







 $6'-8"\pm 3'-4"$

NEW HOLLOW METAL DOOR AND FRAME (FIELD PAINTED), REF A/ME-3 FOR DETAILS **NEW CONCRETE** SIDEWALK & RAMP

EXISTING EXTERIOR WALL-BRICK VENEER W/ CMU

- NEW INSULATED HOLLOW

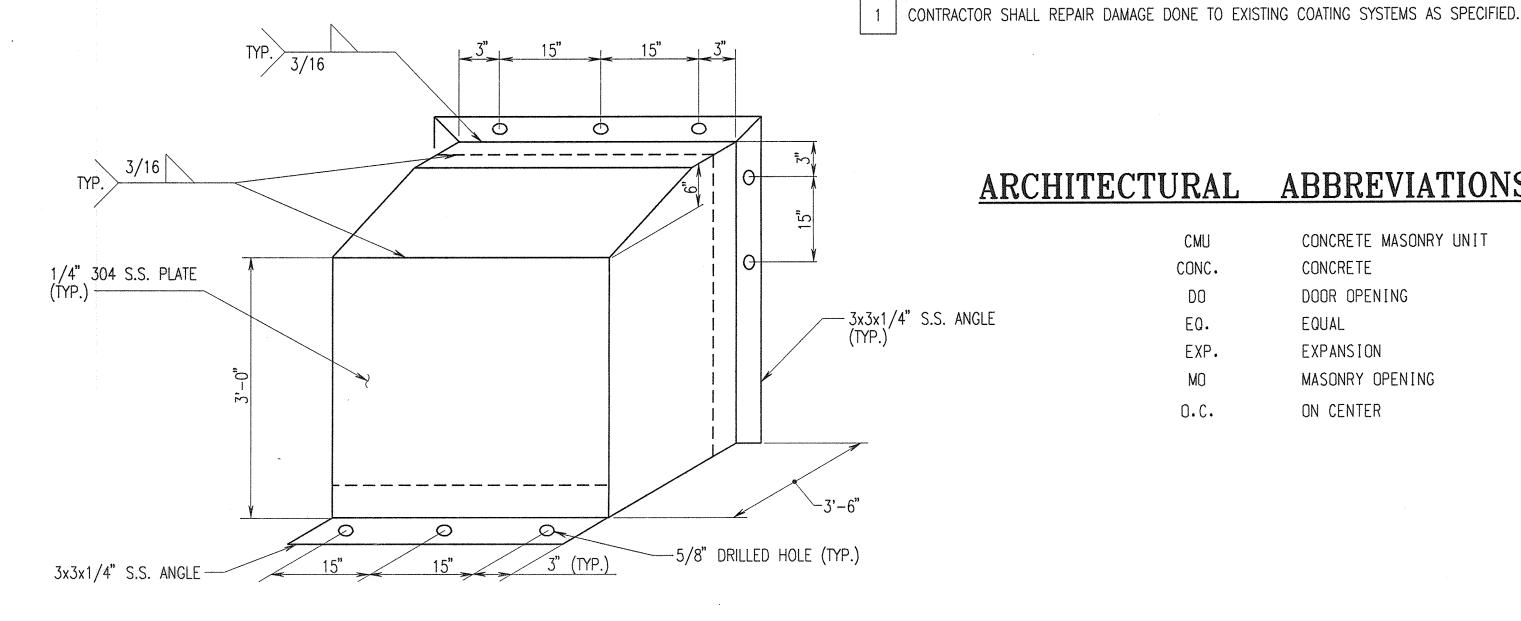
METAL DOOR W/ HOLLOW

REF A/ME-3 FOR DEATILS

NEW CONCRETE SIDEWALK

METAL FRAME (FIELD PAINTED),

BACK-UP, TYP



ARCHITECTURAL **ABBREVIATIONS** CMU CONCRETE MASONRY UNIT CONC. CONCRETE DO DOOR OPENING - 3x3x1/4" S.S. ANGLE EQ. EQUAL EXP. EXPANSION MO MASONRY OPENING

0.0.

ON CENTER

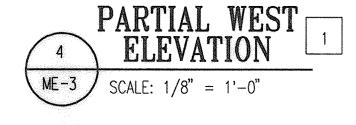
CONSTRUCTION NOTES:

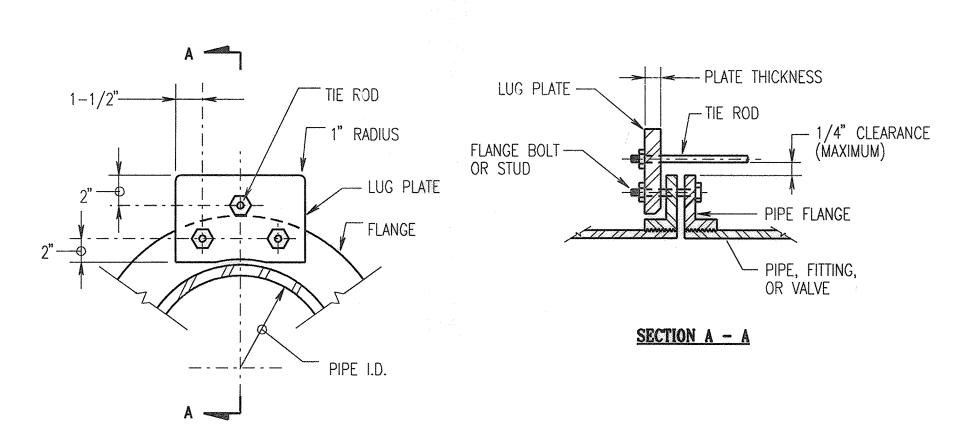
BOX DETAIL SCALE: NONE ME-1, ME-2

REMOTE PRESSURE TRANSDUCER PRESSURE GAUGE PRESSURE SNUBBER BALL VALVE (TYP.) ELBOW (TYP) -- MOUNTING TAPPED CONNECTION ON APPLICABLE PIPING, SIZE TO SUIT N.C. -CORPORATION COCK

SEE PLANS AND SCHEMATICS FOR RANGES **DETAIL** SCALE: NONE - ME-1, ME-2

PARTIAL WEST DEMO ELEVATION ME-3 SCALE: 1/8" = 1'-0"





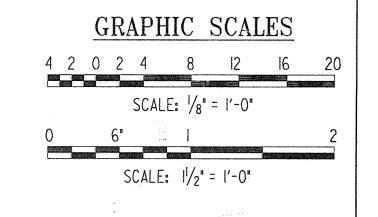
PIPE SIZE	NUMBER OF RODS	DIAMETER OF RODS	PLATE THICKNESS	PIPE SLEEVE (IF REQUIRED)	DESIGN PRESSURE PSI
8"	2	3/4"	1"	7/8"	150
12"	4	3/4"	1"	7/8"	150

<u>PLAN</u>

NOTE: IF PLATE IS REQUIRED TO BE MOUNTED ON REVERSE SIDE OF FLANGE, PROVIDE A PIPE SLEEVE AND WASHER ON THE END OF THE TIE ROD SO THAT THE MAXIMUM CLEARANCE BETWEEN THE SLEEVE AND THE FLANGE CAN BE MAINTAINED. FLANGE SURFACE IN CONTACT WITH LUG PLATE SHALL BE GROUND SMOOTH TO CLEAR THE CASTING IRREGULARITY AND EMBOSSED LETTERING. CONTACT SURFACE OF LUG PLATE SHALL BE MACHINED TO A ONE DEGREE TAPER FOR PIPE DIAMETERS 12-INCH AND LARGER.

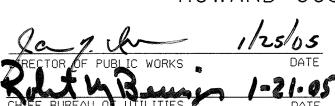
ROD MATERIAL - ASTM A588 PLATE MATERIAL - ASTM A36 SLEEVE MATERIAL - SCHEDULE 40 STEEL PIPE



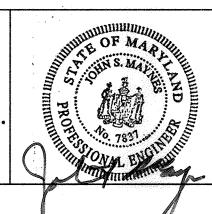


ME-3

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND.







DES: MWM/LAP			·	
DRN: MWM/LAP				
CHK: HWL				
DATE 1/10/0E				
DATE: 1/18/05	BY	NO.	REVISION	

WHISKEY BOTTOM ROAD PUMPING STATION PRV UPGRADE CONTRACT NO. 44-4260

CAPITAL PROJECT NO. W-8270C

HOWARD COUNTY, MARYLAND

SHOWN SHEET

SCALE

DETAILS

600'SCALE MAP NO.

47 BLOCK NO. 20

TELECTION DISTRICT 3