# WHISKEY BOTTOM ROAD PUMPING STATION SODIUM HYPOCHLORITE ADDITIONS

CONTRACT NO. 44-3955 CAPITAL PROJECT NO. W-8236 HOWARD COUNTY, MARYLAND

#### INDEX OF DRAWINGS

SHEET NO.

DESCRIPTION

DRAWING NO.

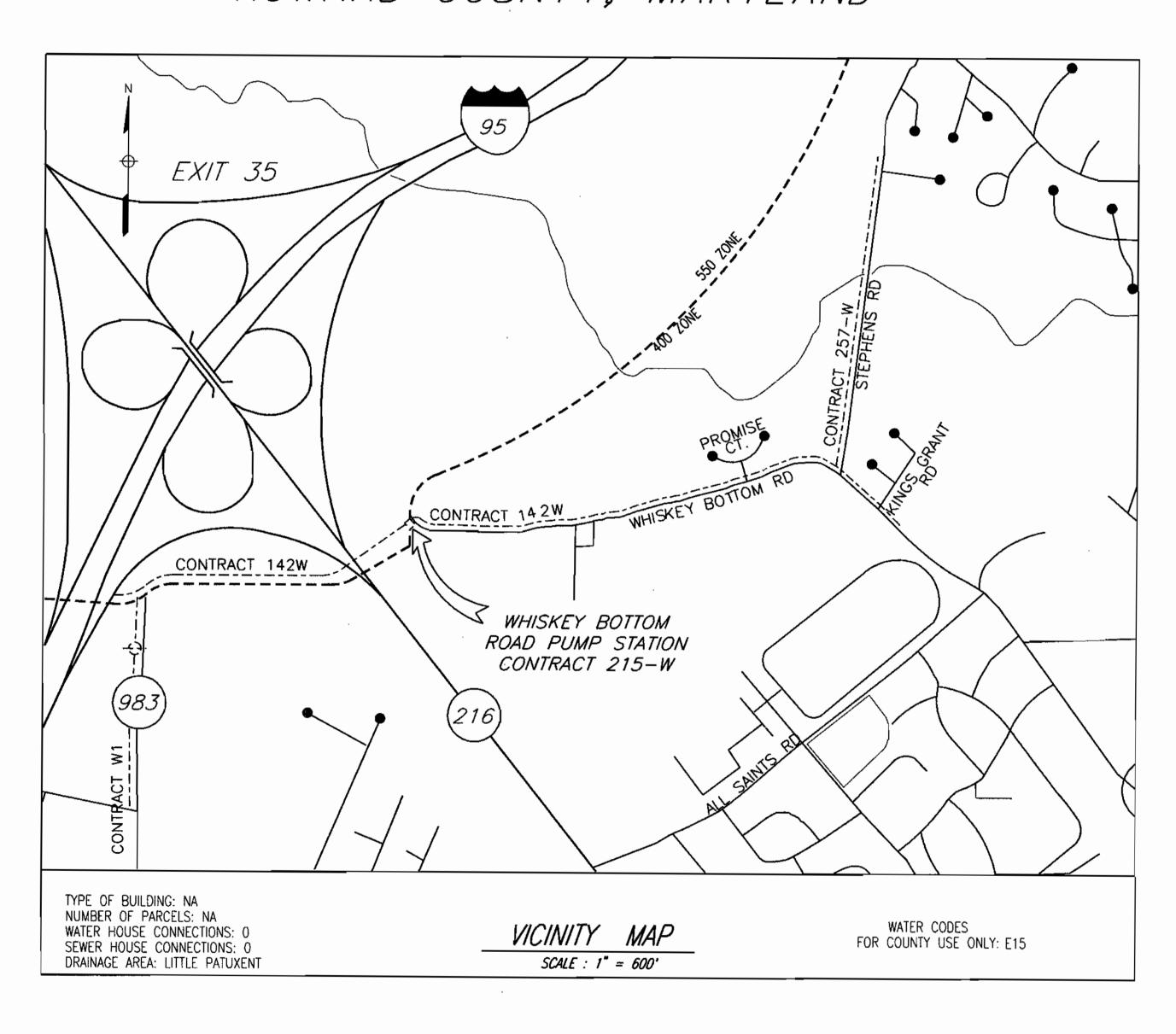
TITLE SHEET - VICINITY MAP, INDEX OF DRAWINGS, AND GENERAL NOTES

STATION PLANS AND LEGEND

ME-2

PROCESS AND INSTRUMENTATION DIAGRAMS

MISCELLANEOUS 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 COORDINAT
- 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.
- 8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING

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. ALŁ 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.

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND.



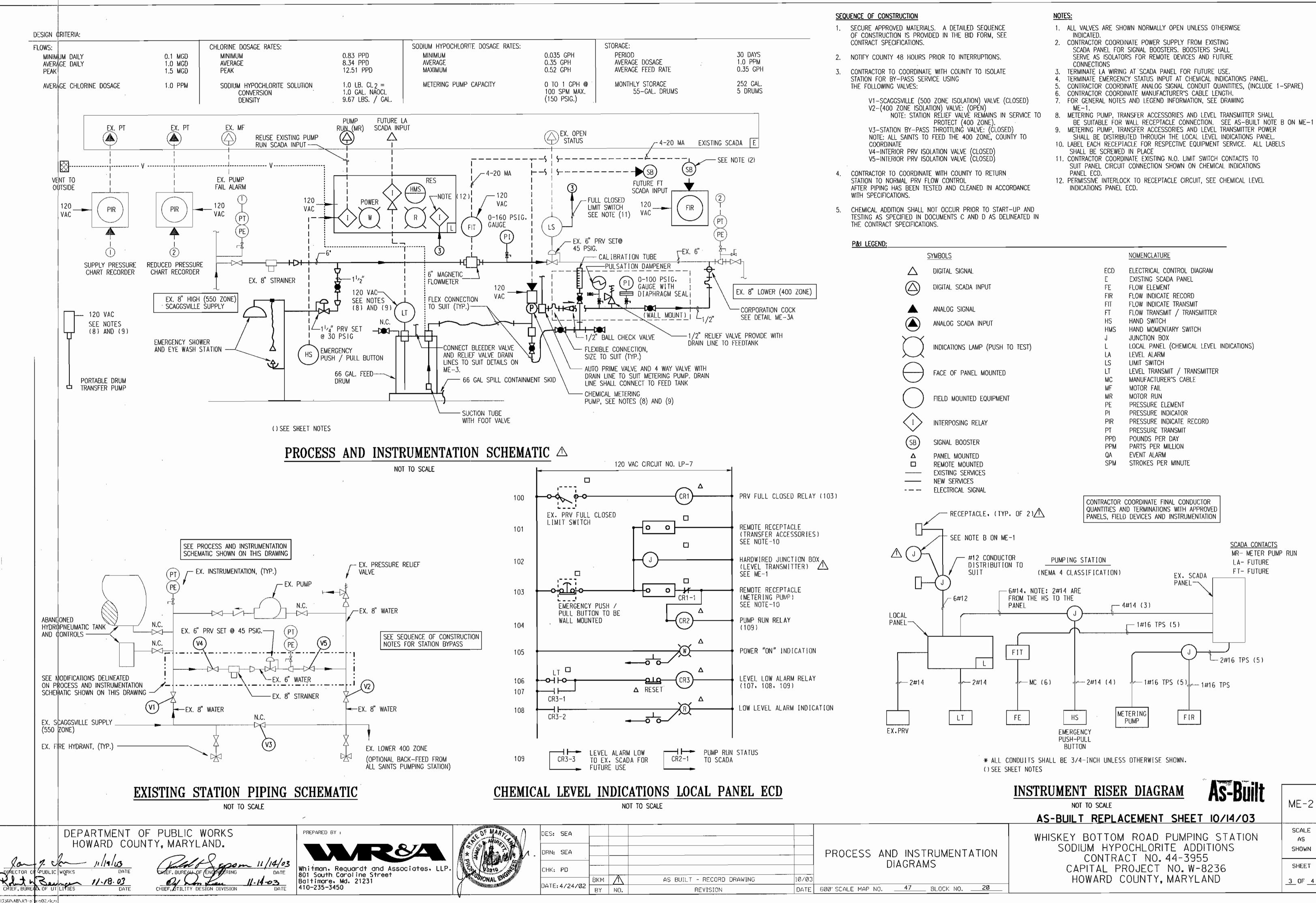


DES: LAP					
	•				TITLE CHEET - VICINITY MAD
DRN: LAP					TITLE SHEET- VICINITY MAP,
					INDEX OF DRAWINGS, AND
CHK: SEA					GENERAL NOTES
DATE: 4/24/0/2		$\Delta$	AS BUILT-RECORD DRAWING	10/03	
DH ) [. 4/ 24/ 02	BY	NO.	REVISION	DATE	600'SCALE MAP NO. 47 BLOCK NO. 20
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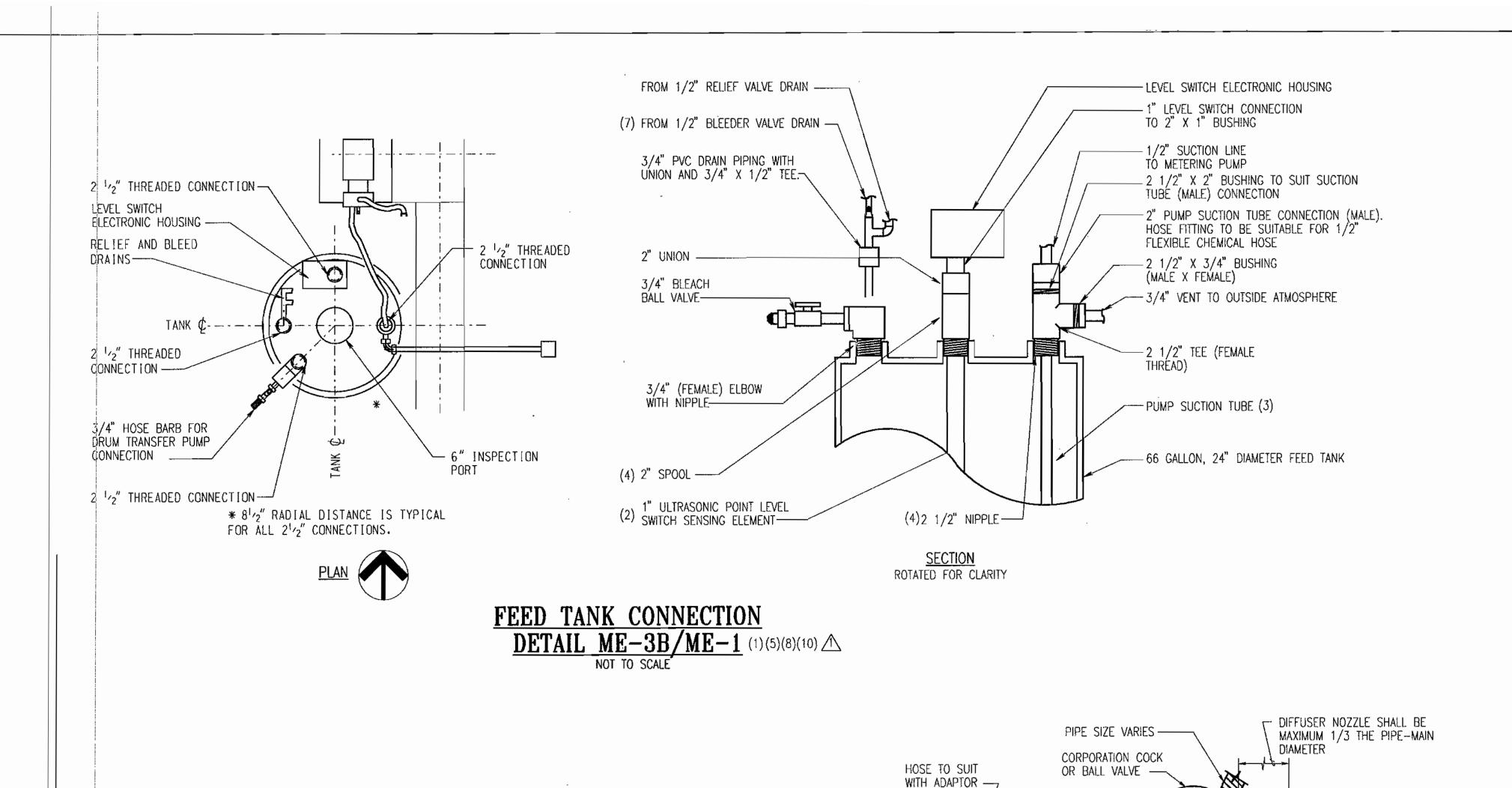
WHISKEY BOTTOM ROAD PUMPING STATION SODIUM HYPOCHLORITE ADDITIONS CONTRACT NO. 44-3955 CAPITAL PROJECT NO. W-8236 HOWARD COUNTY, MARYLAND

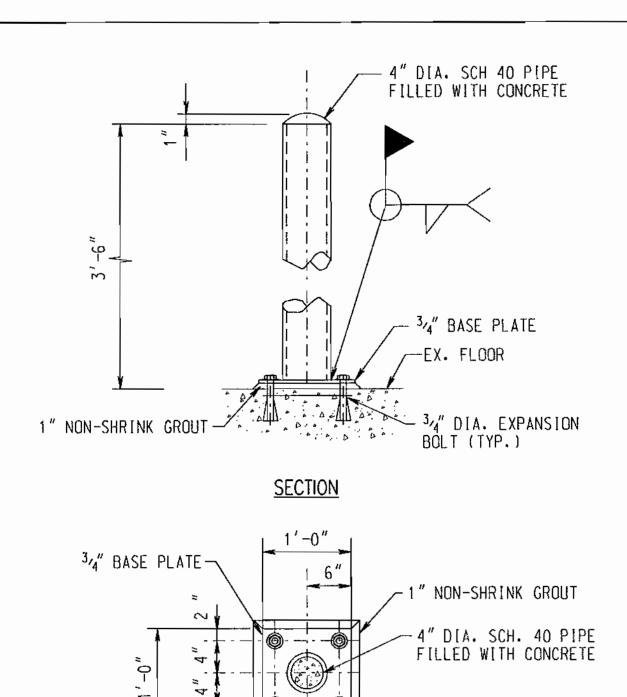
SHOWN SHEET <u>1</u> OF <u>4</u>

SCALE



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TYPICAL BOLLARD POST DETAIL ME-3C/ME-1 NOT TO SCALE

<u>Plan</u>

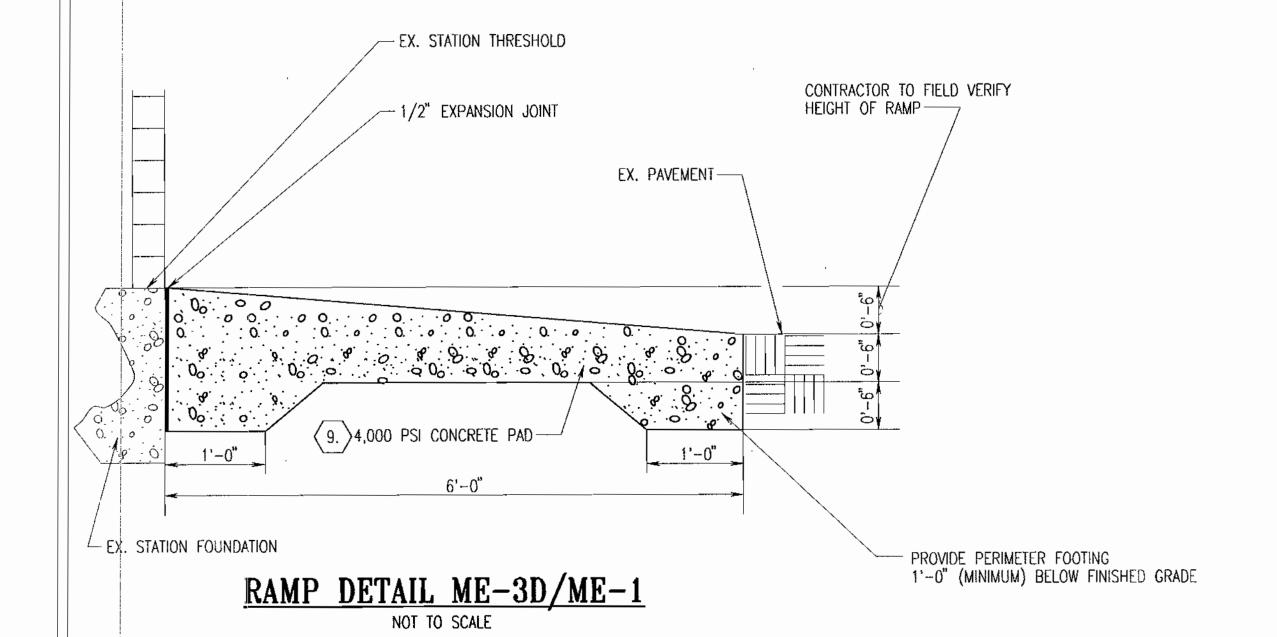
3/4" DIA. EXPANSION

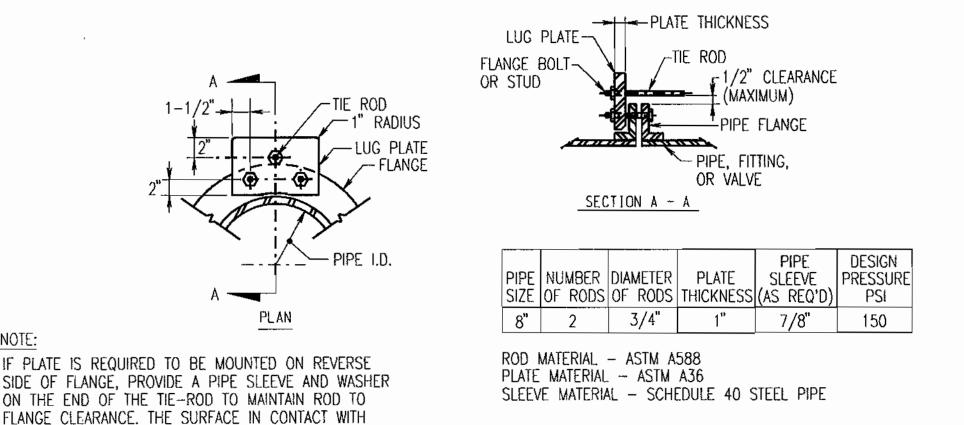
BOLT (TYP.)

#### NOTES:

- ALL PIPE AND FITTINGS SHALL BE PVC AND SHALL HAVE THREADED CONNECTIONS.
- 1 " LEVEL SWITCH PROBE SHALL PASS THROUGH BUSHING UNION, AND SPOOL PIECE DOWN TO THE BOTTOM OF THE DRUM. THE ONLY CONNECTION POINT SHALL BE THE 1" THREADED CONNECTION. PROBE SHALL TERMINATE 5" FROM BOTTOM OF DRUM, CONTRACTOR SHALL COORDINATE
- 1/2" SUCTION TUBE SHALL PASS THROUGH THE TEE, BUSHINGS, AND NIPPLE PIECE DOWN TO THE BOTTOM OF THE FEED TANK. THE ONLY CONNECTION SHALL BE THE 2" MALE THREADED CONNECTION.
- TANK SHALL BE FURNISHED WITH HALF COUPLING CONNECTIONS TO SUIT.
- TANK SHALL HAVE ONE (1) FLANGED AND TWO (2) FEMALE THREADED CONNECTIONS INTEGRALLY MOLDED.
- SUPPORT SHALL BE PROVIDED FOR CHEMICAL AND EMERGENCY EYEWASH SUPPLY LINES.
- BLEEDER VALVE DRAIN LINE SHALL HAVE SUITABLE HOSE BARB AND CLAMP TO CONNECT TO 1/2" FIXED DRAIN CONNECTION.
- ALL MATERIALS SHALL BE SUITABLE FOR SODIUM HYPOCHLORITE SERVICE.
- CONCRETE RAMP SHALL CONFORM TO SECTION 603 SIDEWALKS OF MARYLAND DEPARTMENT OF TRANSPORTATION. STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS
- PROVIDE BUSHINGS AS NECESSARY

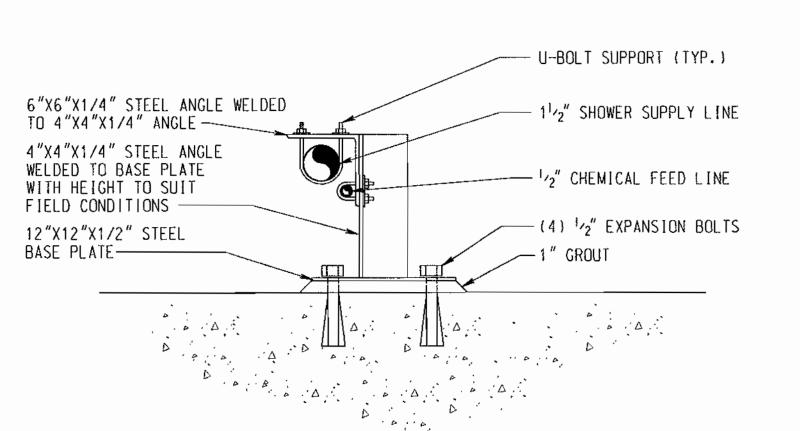






# TIE-ROD DETAIL ME-3E/ME-1

NOT TO SCALE



### TYPICAL PIPE SUPPORT DETAIL ME-3F/ME-1 (6)

NOT TO SCALE

As-Built

## AS-BUILT REPLACEMENT SHEET 10/14/03

WHISKEY BOTTOM ROAD PUMPING STATION SODIUM HYPOCHLORITE ADDITIONS CONTRACT NO. 44-3955 CAPITAL PROJECT NO. W-8236

AS SHOWN SHEET 4 OF 4

SCALE

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

DRN: LAP CHK: SEA BKM NO. AS BUILT - RECORD DRAWING REVISION

LUG PLATE SHALL BE GROUND SMOOTH TO CLEAR THE CASTING IRREGULARITY AND EMBOSSED LETTERING.

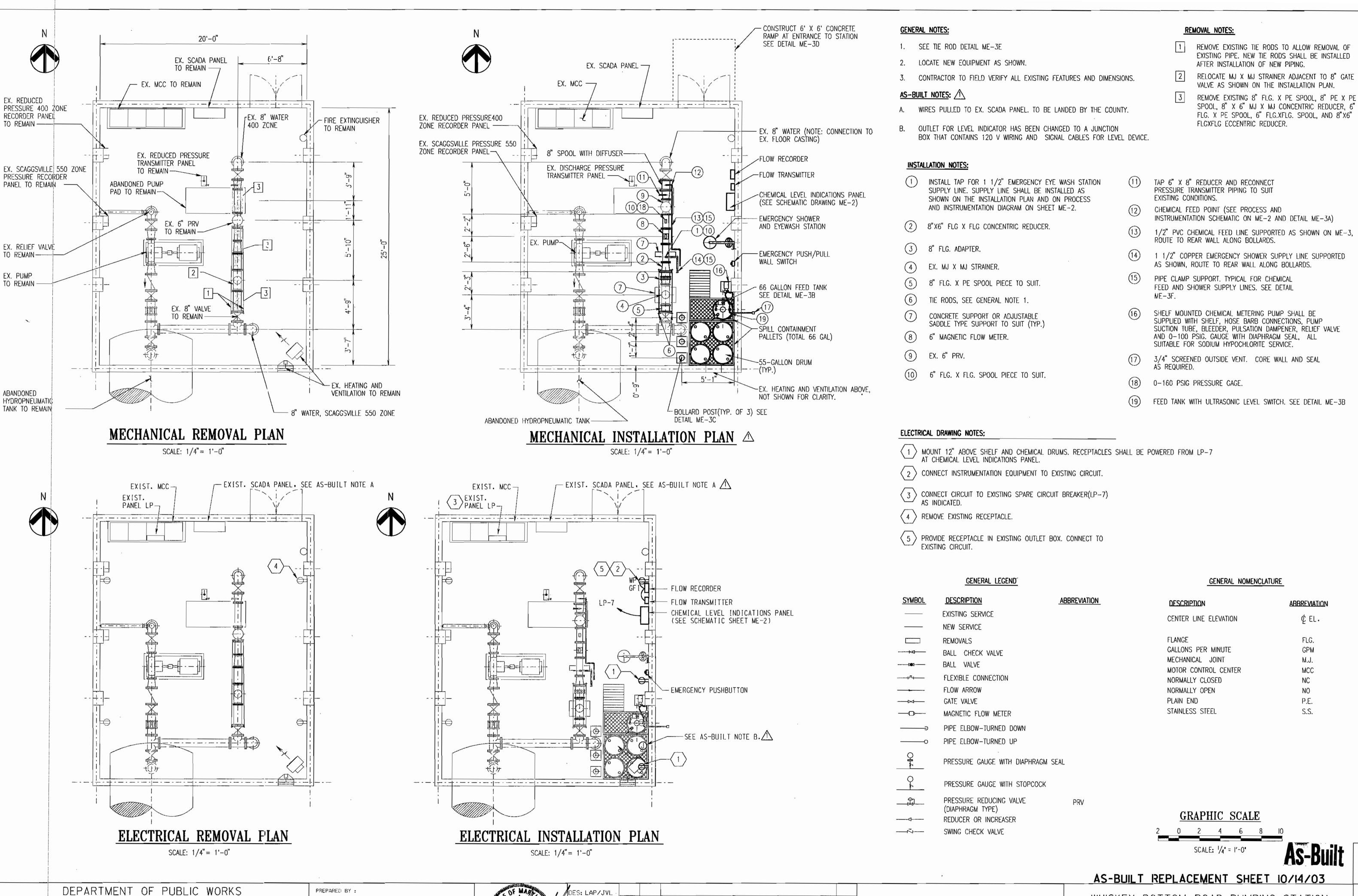
DATE 600'SCALE MAP NO. <u>47</u> BLOCK NO. <u>20</u>

MISCELLANEOUS DETAILS

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND.

HOWARD COUNTY, MARYLAND



DRN: LAP/AGT

CHK: SEA/AMP

DATE: 4/24/02

AS BUILT - RECORD DRAWING

REVISION

WHISKEY BOTTOM ROAD PUMPING STATION SODIUM HYPOCHLORITE ADDITIONS CONTRACT NO. 44-3955 CAPITAL PROJECT NO. W-8236 HOWARD COUNTY, MARYLAND

STATION PLANS

AND LEGEND

DATE 600'SCALE MAP NO. 47 BLOCK NO. 20

SHEET 2 OF 4

SCALE

SHOWN

**ABBREVIATION** 

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FLG.

GPM

MCC

S.S.

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HOWARD COUNTY, MARYLAND.

TAR&A

801 South Caroline Street Baltimore, Md. 21231