

# MANATEE COUNTY, FLORIDA MASTER LIFT STATION R & R TIDEVUE 4, RTU 533 404-6060784

**DECEMBER 2013** 

HILLSBOROUGH COUNTY

SARASOTA COUNTY

SITE LOCATION

SARASOTA COUNTY

PERMIT REQUIRED

CONFINED SPACE ENTRY

MASTER LIFT

REVISION DESCRIPTION added comminutor rev. safety railing & grating rev. project description notes	TION BY DATE	jss 8/7/13	g 8/12/13	tes jas 5/8/14	
	REVISION DESCRIP	added comminutor	rev. safety railing & grati	rev. project description no	

**100% PLANS** 

37)	NO.	INDEX OF SHEETS
30	1.	COVER
	2.	PLAN VIEWS
	3.	SECTION VIEWS
	4.	STAIRWAY PLAN
ح ا ک	56.	WET WELL FRAMING & DETAILS
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MASTER LIFT ST	TATION TIDEVUE 4			
ITEM	VALUE			
RTU	533			
STREET ADDRESS	1355 41ST AVE. E.			
CITY	ELLENTON			
SEC./TWN./RGE	17/34/18			
DESIGN FLOW	1,629 GPM @ 150' TDH			

\* CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS



1355 41ST AVE. E., ELLENTON

VICINITY MAP N.T.S.

### PROJECT DESCRIPTION

REMOVE AND REPLACE EXISTING FIBERGLASS DECKING AND ISOLATION GATES.

REMOVE AND REPLACE EXISTING SAFETY RAIL WITH A 1.5" ROUND FIBERGLASS BASIC IN-LINE TWO-RAIL W/ FITTINGS THAT MEETS OR EXCEEDS OSHA REQUIREMENTS.

PROJECT SITE

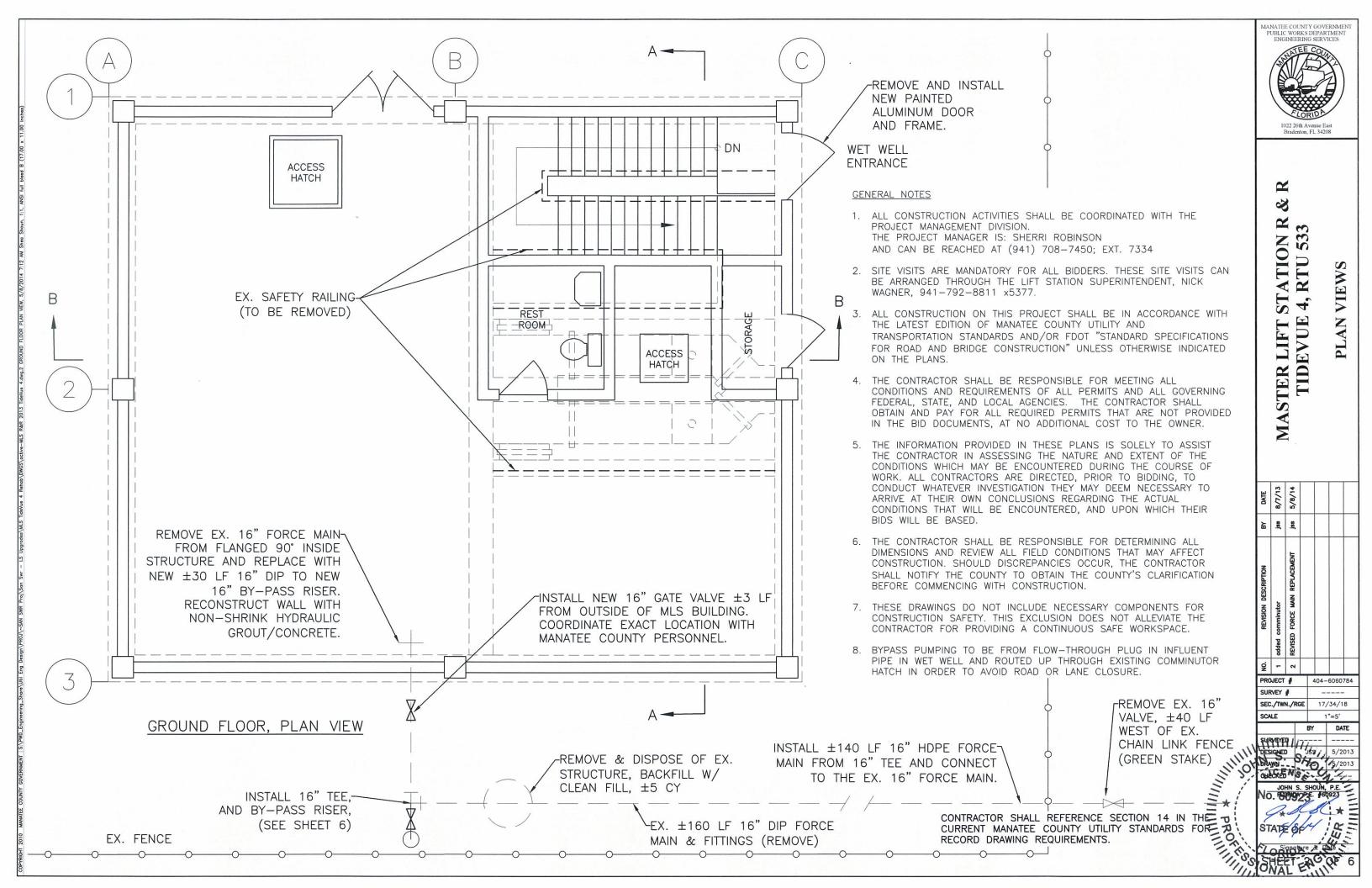
REPAIR, REHAB EXISTING WET WELL CONCRETE STRUCTURE AND APPLY NEW SPRAY LINER.

INSTALL EXPLOSION PROOF LED LIGHTS.

INSTALL NEW ALUMINUM WET WELL ACCESS DOOR/FRAME.

INSTALL NEW COMMINUTOR, WIRING, AND CONTROL

INSTALL NEW 16" HDPE FORCE MAIN, 2-16" GATE VALVE, & A BY-PASS RISER PIPE



#### NOTES:

- ELECTRICAL LINE NEEDS TO BE ROUTED FROM THE NEW CONTROL BOX TO THE NEW COMMINUTOR. USE OF THE EXISTING HATCH OPENING WILL NOT BE ACCEPTABLE. SEE NOTE BELOW.
- NEW COMMINUTOR TO BE MODEL CDD1810-XDM2.0 CHANNEL MONSTER TM SYSTEM. INSTALLATION INCLUDES CMA1101 316 SS CHANNEL MOUNT FRAME ASSEMBLY WITH OVERFLOW BAR RACK, PC2200 MOTOR CONTROLLER IN NEW NEMA 4X FIBERGLASS PANEL BOX, IEC STARTER WITH OVERCURRENT PROTECTION & JAM SENSING.

#### **COMMINUTOR SPECIFICATIONS:**

CONTRACTOR IS RESPONSIBLE FOR ALL LABOR, MEASUREMENTS, AND

ALL MATERIALS REQUIRED TO COMPLETE THE JOB AS INTENDED.

- 1. GRINDER W/ 18" CUTTER STACK, 11-TOOTH CAM CUTTERS IN 8620 ALLOY STEEL, (2)-10" DIA. 316 SS ROTATING PERFORATED DRUMS W/ 1/4" PERFORATIONS, CARTRIDGE-STYLE TUNGSTEN CARBIDE MECHANICAL SEALS W/ BUNA-N ELASTOMERS RATED FOR 90 PSI, 2 COATS OF TNEMEC COALTAR EPOXY PAINT COATED DUCTILE IRON HOUSING & SIDERAILS, 29:1 SPEED REDUCER, (1)-5 HP & (2)-1 HP XPNV 230V/460V/3PH/60HZ BOTH IMMERSIBLE ELECTRIC MOTOR W/ 40' OF INTERNAL POWER CABLE & 316 SS LIFT BAIL.
- ONE (1) CMA1101-STYLE CHANNEL MOUNTED FRAME ASSEMBLY W/ OVERFLOW BAR RACK FABRICATED OF 316 STAINLESS STEEL.
- ONE (1) PC2200 MOTOR CONTROLLER IN NEW NEMA 4X FIBERGLASS ENCLOSURE ACCEPTING 230V/460V/3PH/60HZ INPUT POWER, INCLUDES IEC STARTER W/ OVERCURRENT PROTECTION, JAM-SENSING CURRENT TRANSFORMER, AND MICRO-PCL.



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TIDEVUE MASTER

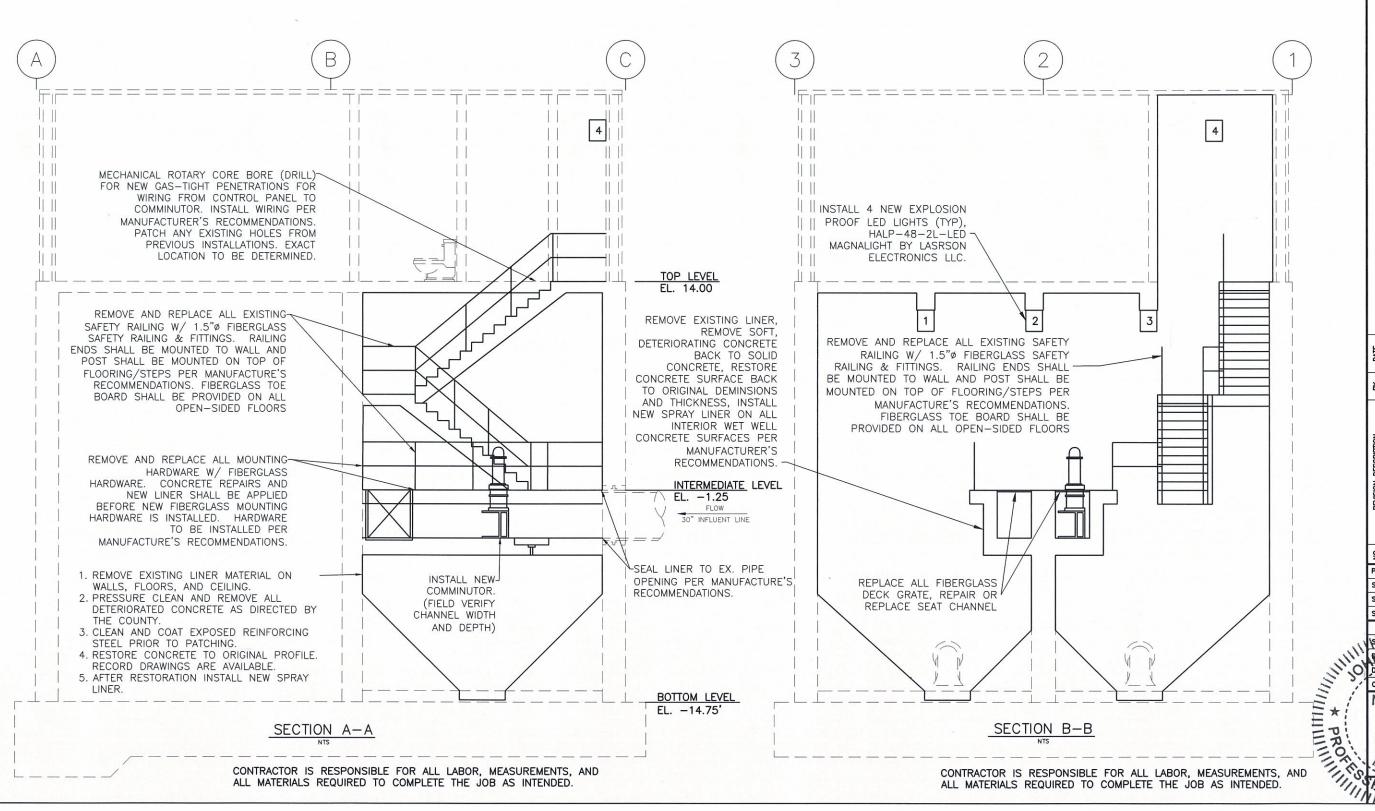
PROJECT # 404-6060784 SURVEY #

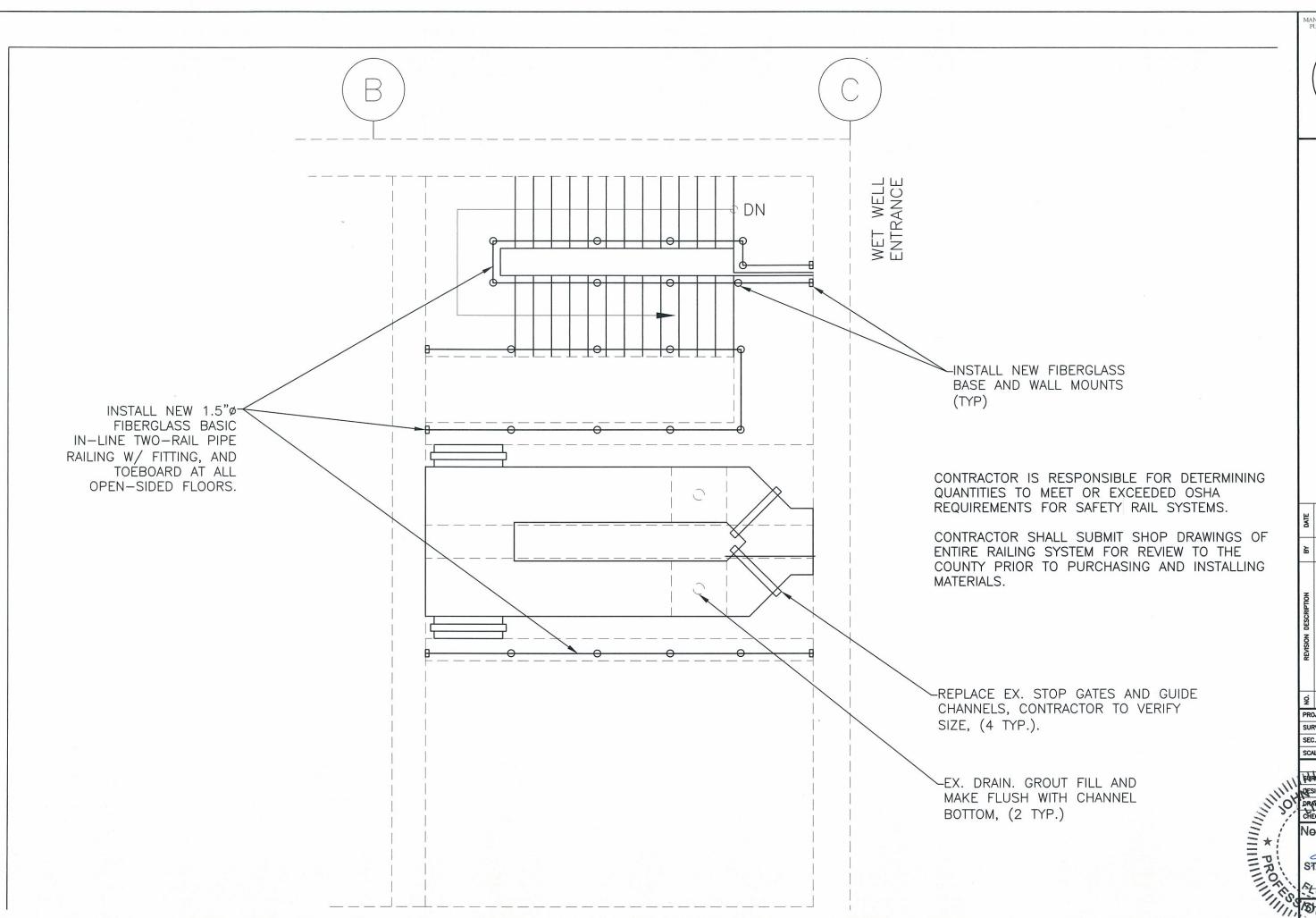
SEC./TWN./RGE 17/34/18

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CORNER

CONTRACTOR IS RESPONSIBLE FOR ALL LABOR, MEASUREMENTS, AND ALL MATERIALS REQUIRED TO COMPLETE THE JOB AS INTENDED. SOMET BY

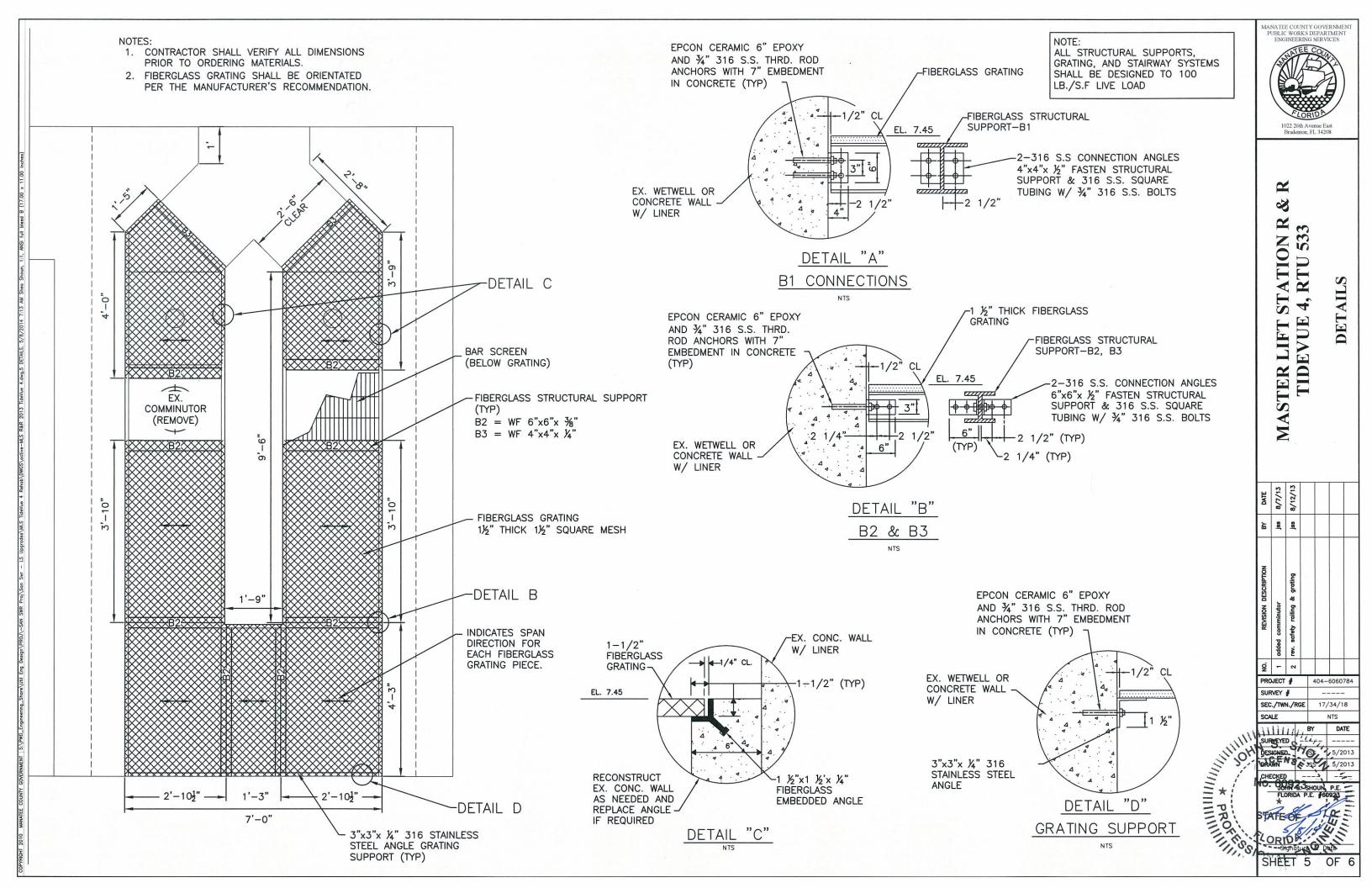


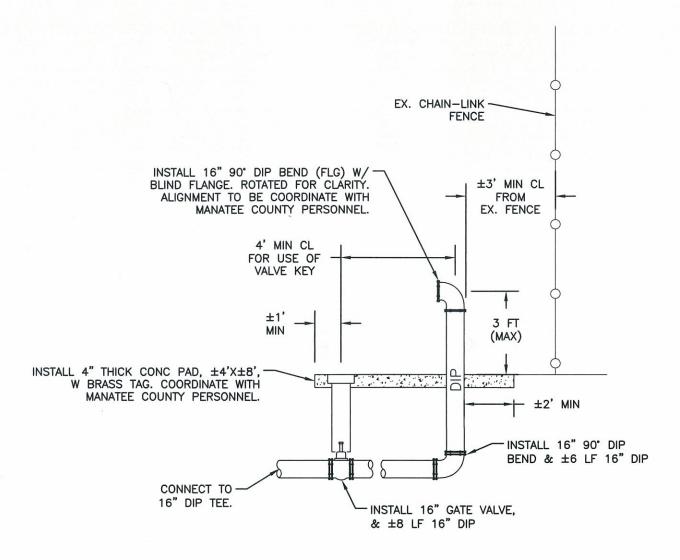


PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES

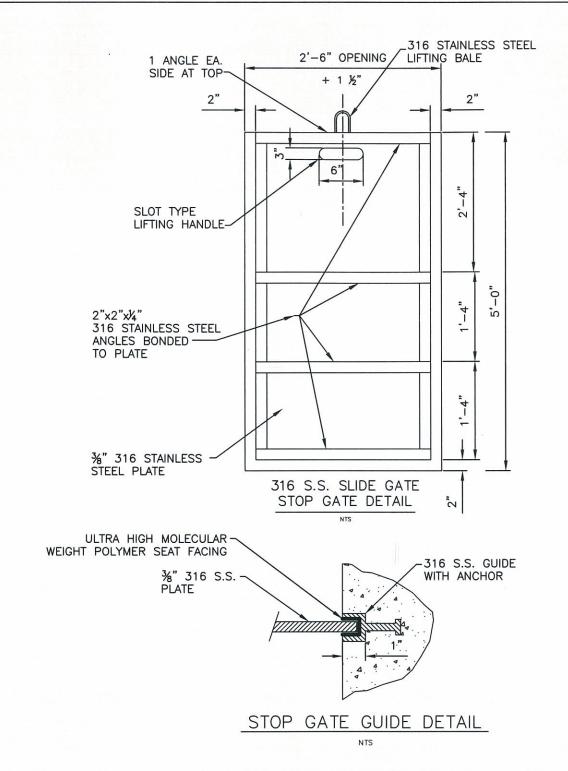
MASTER LIFT STATION R & TIDEVUE 4, RTU 533

STAIRWAY PLAN





## BY-PASS RISER PIPE DETAIL



1022 26th Avenue East Bradenton, FL 34208

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8 MASTER LIFT STATION R TIDEVUE 4, RTU 533

DETAILS

≥ 85 138

PROJECT # 404-6060784 SURVEY # SEC./TWN./RGE 17/34/18 SCALE NTS MIIIII DATE BY

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PROFILE PROPERTY