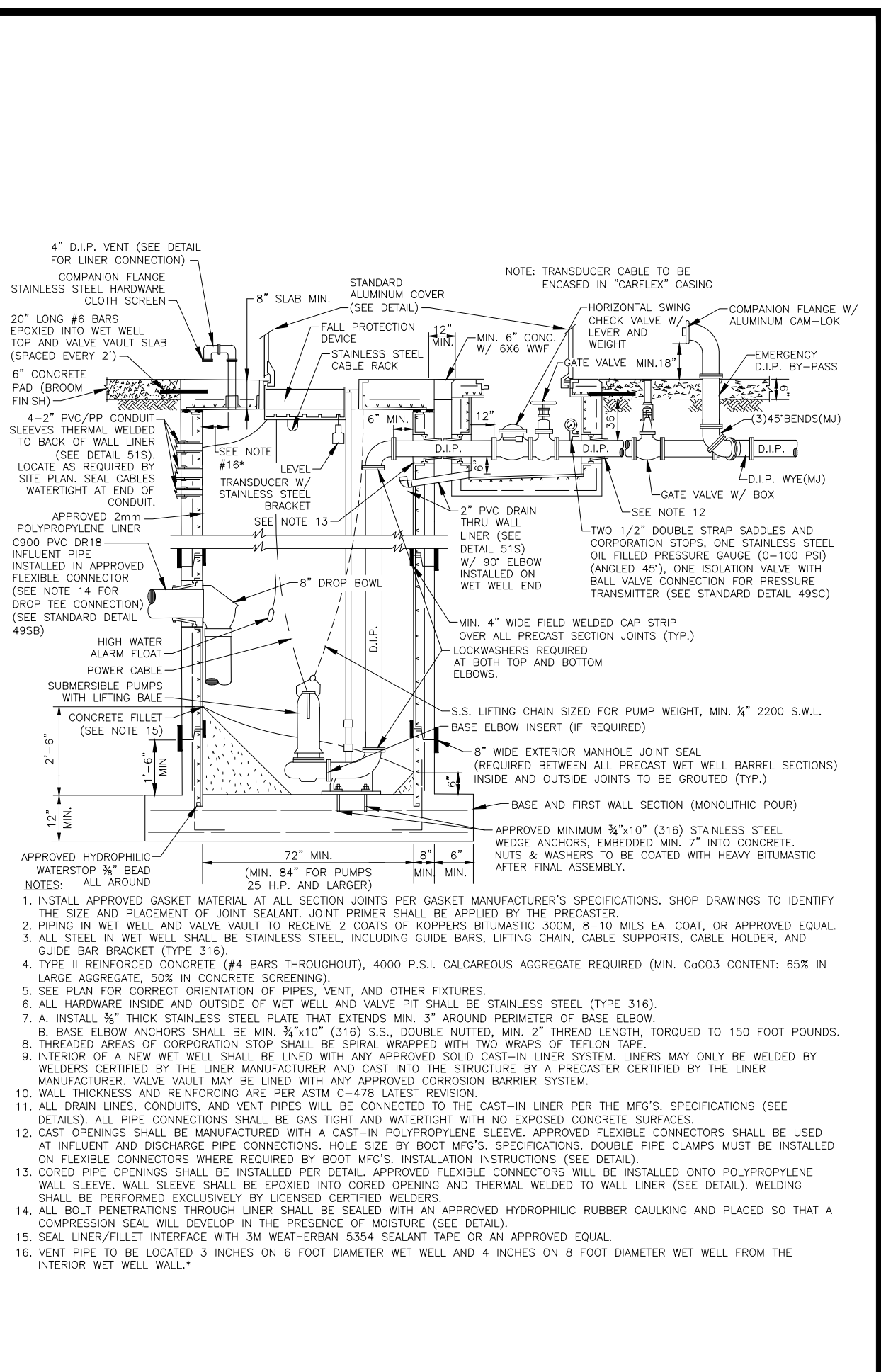


NOTE: SEE DETAIL 485 FOR NOTES RELATED TO 475.

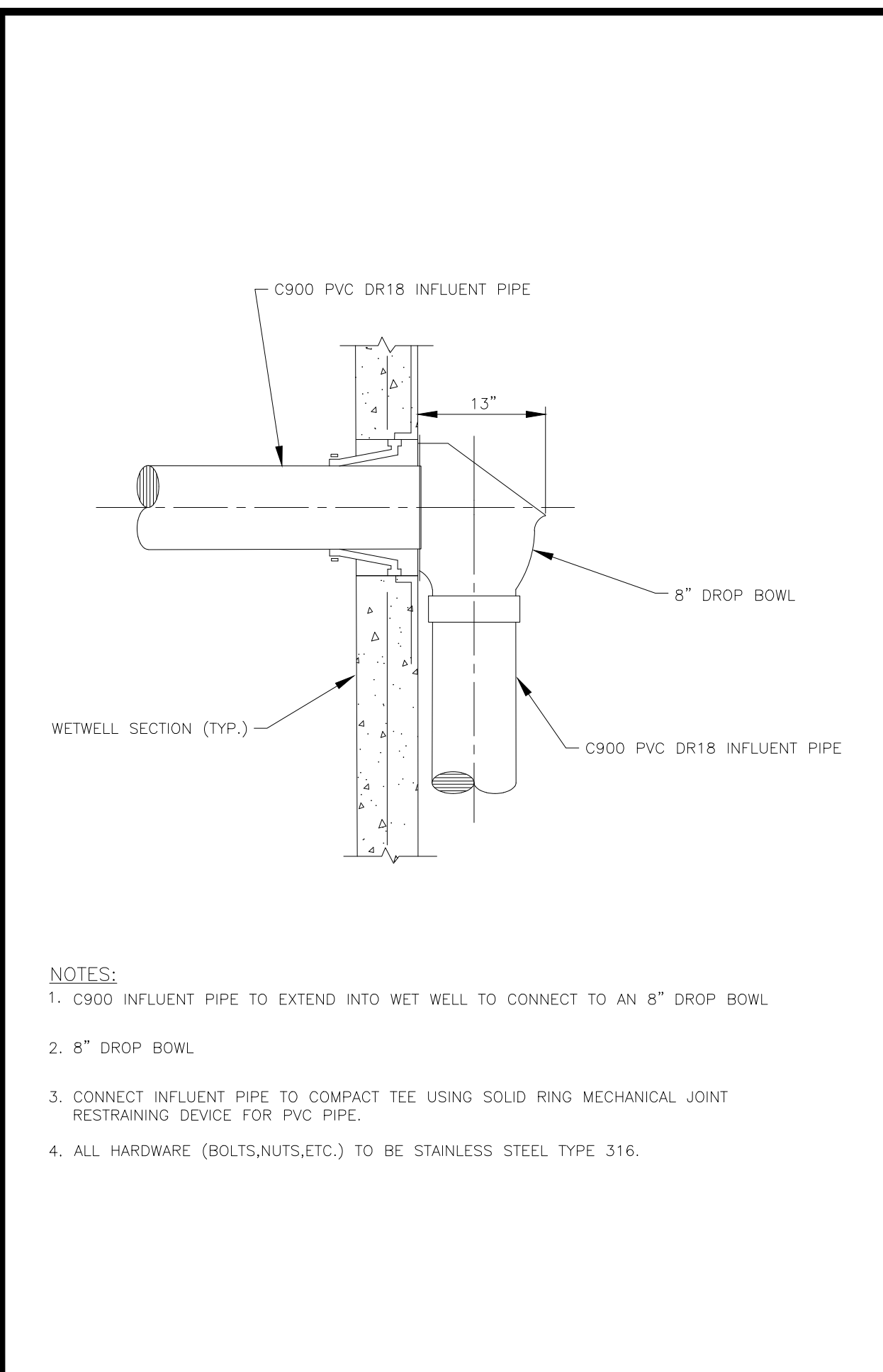
TYPICAL LIFT STATION SITE PLAN DETAIL * 475

- NOTES:
- ENGINEER SHALL DESIGN SITE PLAN USING THE "TYPICAL LIFT STATION SITE PLAN DETAIL". "SITE PLAN LOCATION" DETAIL SHALL BE DRAWN TO SCALE NOT SMALLER THAN 1"=10' WITH:
 - NORTH ARROW, STREET NAME.
 - FORCE WITH 2'-6" WIDE GATES.
 - INFLUENT LINE ENTRY LOCATION WITH MANHOLE AND GRAVITY MAIN DATA.
 - HINGE LOCATION (HINGES FOR WET WELL COVER MUST BE LOCATED ON THE CONTROL PANEL SIDE. HINGES FOR VALVE VAULT COVER SHALL BE LOCATED ON DISCHARGE SIDE OF FORCE MAIN.)
 - POWER SERVICE FEED (WITH "AS BUILTS"). MAXIMUM LENGTH OF ELECTRICAL SERVICE FROM THE TRANSFORMER / HANDHOLE TO CONTROL PANEL SHALL BE 50 FEET.
 - EMERGENCY PUMP OUT LOCATION (SHALL BE SAME SIZE AS PUMP DISCHARGE).
 - THE STATION SHALL BE POSITIONED SO THE FRONT OF CONTROL PANEL DOES NOT FACE WEST OR SOUTH (NORTH AND EAST ARE PREFERRED)
 - HORIZONTAL DISTANCE FROM PANEL FRONT TO WET WELL OPENING. SHALL BE: WIDTH OF CONTROL PANEL PLUS 6".
 - DESIGN TO BE COORDINATED WITH "TYPICAL LIFT STATION PLAN DETAIL".
 - FENCED AREA TO BE COVERED WITH 2 PLY 4.0 (FOUR) MIL VISQUEEN AND A 6" CONCRETE PAD WITH #9 WIRE MESH (6" X 6") - BROOM FINISH REQUIRED. CONCRETE PAD TO EXTEND 12" BEYOND FENCED AREA.
 - INFLUENT MAIN SHALL BE CLEAR OF VAULT.
 - LANDSCAPE AREA ADJACENT TO LIFT STATION SITE MAY BE SUBJECT TO PRIOR APPROVAL BY THIS DEPARTMENT. ONLY HEDGES WITH NON-AGGRESSIVE ROOT SYSTEM WILL BE APPROVED. HEDGES ARE REQUIRED TO BE FIVE (5) FEET MINIMUM FROM THE EDGE OF THE CONCRETE PAD AND/OR DRIVEWAY. TREES ARE REQUIRED TO BE TEN (10) FEET MINIMUM FROM THE DRIVEWAY ONLY WITH PRIOR APPROVAL BY THIS DEPARTMENT. THE DEVELOPER AND SUCCESSOR SHALL BE RESPONSIBLE FOR ALL LANDSCAPE MAINTENANCE INCLUDING ALL SODDED AREAS. APPROVED HEDGES ARE: EUGENIA, SURINAM CHERRY, WAX MYRTLE, SIMPSON STOPPER, AND SOUTHERN RED CEDAR. NO WOODEN FENCES ARE PERMITTED WITHIN THE LIFT STATION EASEMENT AREA GRANTED BY PLAT OR SEPARATE INSTRUMENT.
 - A PLATTED LIFT STATION EASEMENT OR EXCLUSIVE PALM BEACH COUNTY UTILITY EASEMENT (PBCUE) BY SEPARATE INSTRUMENT IS REQUIRED TO EXTEND FIVE (5) FEET MINIMUM PAST THE LIFT STATION CONCRETE PAD.
 - ALL EXPOSED (NOT BURIED) JOINTS SHALL BE FLANGED, BURIED JOINTS SHALL BE MECHANICAL JOINT TYPE WITH MEGALUGS OR EQUAL.
 - VALVE VAULT DIMENSIONS (INSIDE):
 - 4" PIPING: 4'(L) X 6'(W) X 4'(D)
 - 6" PIPING: 5'(L) X 7'(W) X 4'(D)
 - MINIMUM TWO GROUNDING RODS SHALL BE MIN. 6' APART AND SHALL BE RECESSED THROUGH 4" PVC SLEEVES IN CONCRETE SLAB. THE RODS SHALL BE CONNECTED WITH A #2 BARE TINED COPPER GROUNDING WIRE.
 - WETWELL VENT PIPE SHALL BE INSTALLED SO NOT TO INTERFERE WITH ACCESS TO THE WETWELL AND INSTALLED OPPOSITE OF GATE.
 - THE ELECTRIC POWER SERVICE FEED FROM THE POWER TRANSFORMER TO THE CONTROL PANEL SHALL BE LOCATED WITHIN AN UTILITY EASEMENT.
 - NEMA 4 - 4"x4"x4" PVC JUNCTION BOX TO BE MOUNTED ON 316 STAINLESS STEEL UNISTRUT SUPPORT 24" ABOVE SLAB WITH 316 STAINLESS STEEL HARDWARE.
 - 1" PVC ELECTRICAL CONDUIT TO BE INSTALLED UNDER THE SLAB FROM THE CONTROL PANEL TO JUNCTION BOX AT THE FENCE LINE.

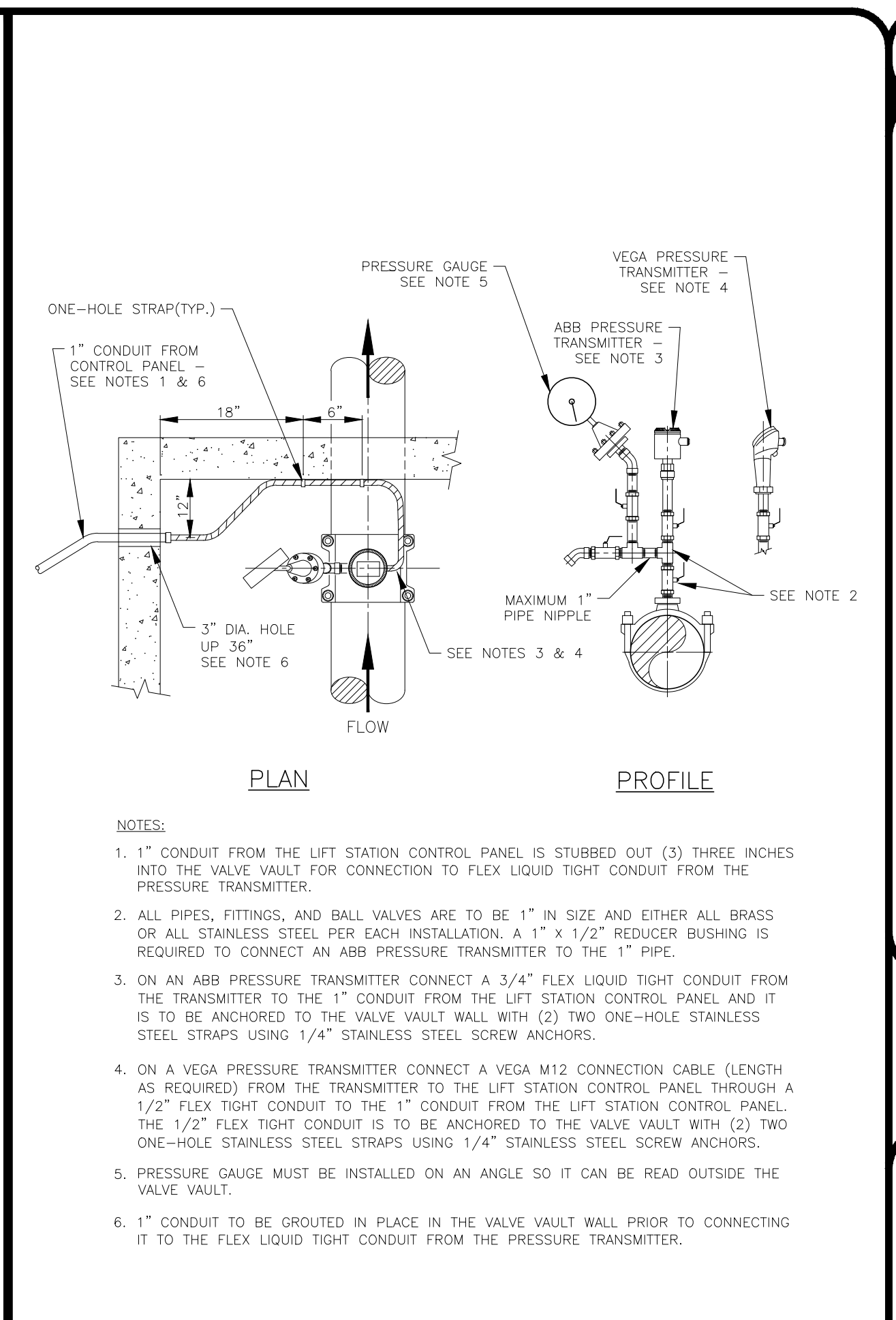
TYPICAL LIFT STATION SITE PLAN NOTES * 485



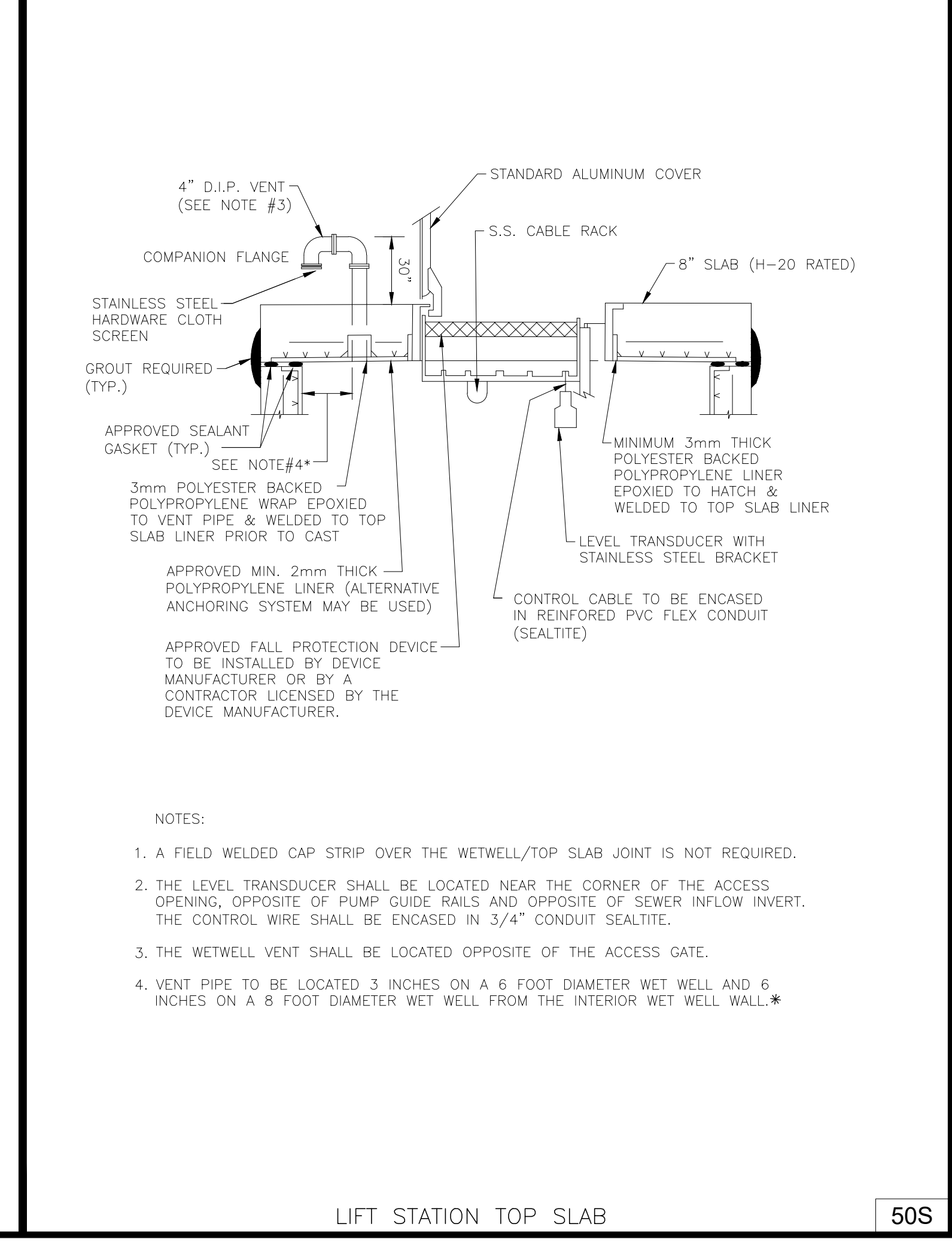
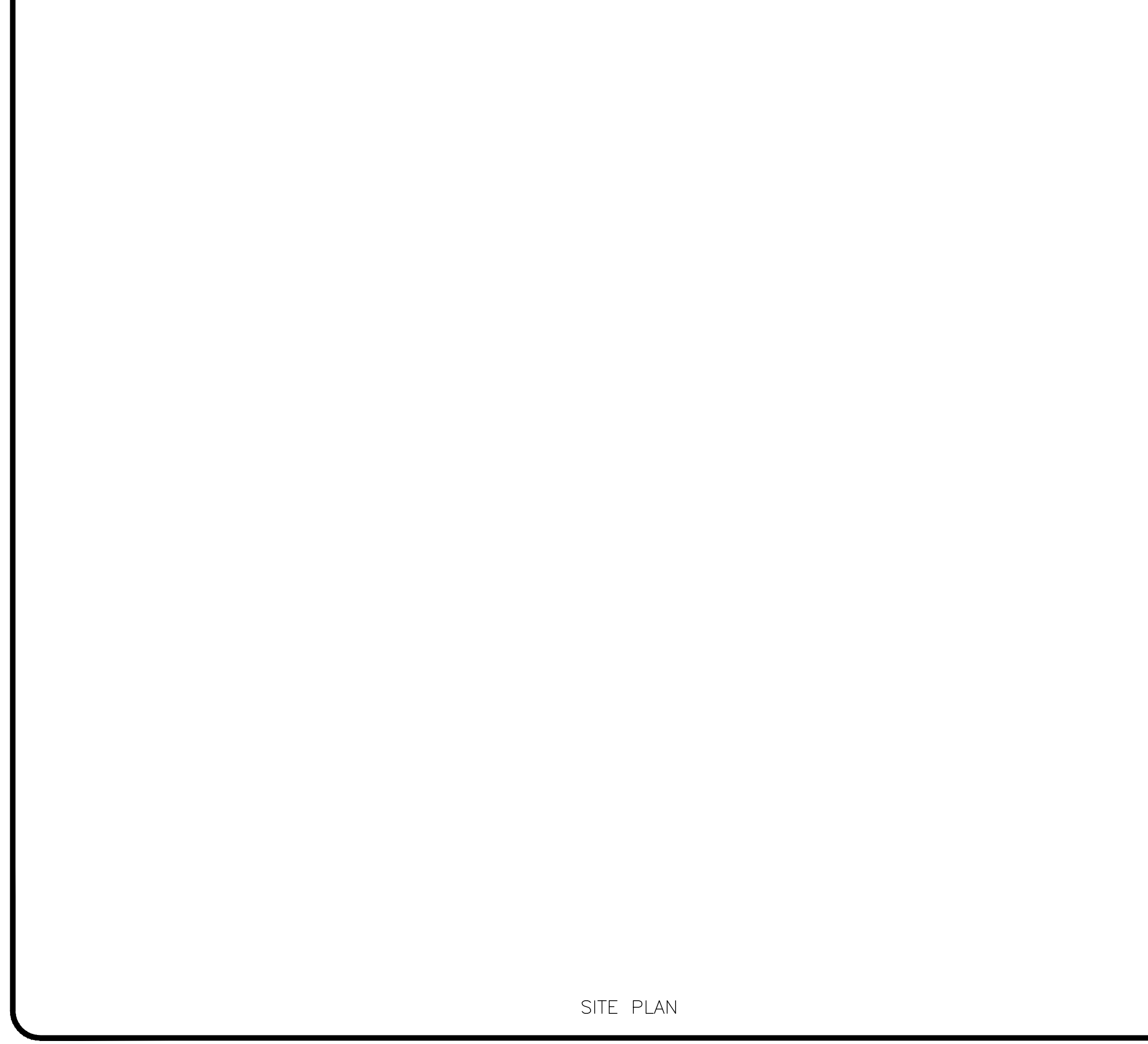
TYPICAL LIFT STATION SECTION WITH CAST-IN LINER * 495A



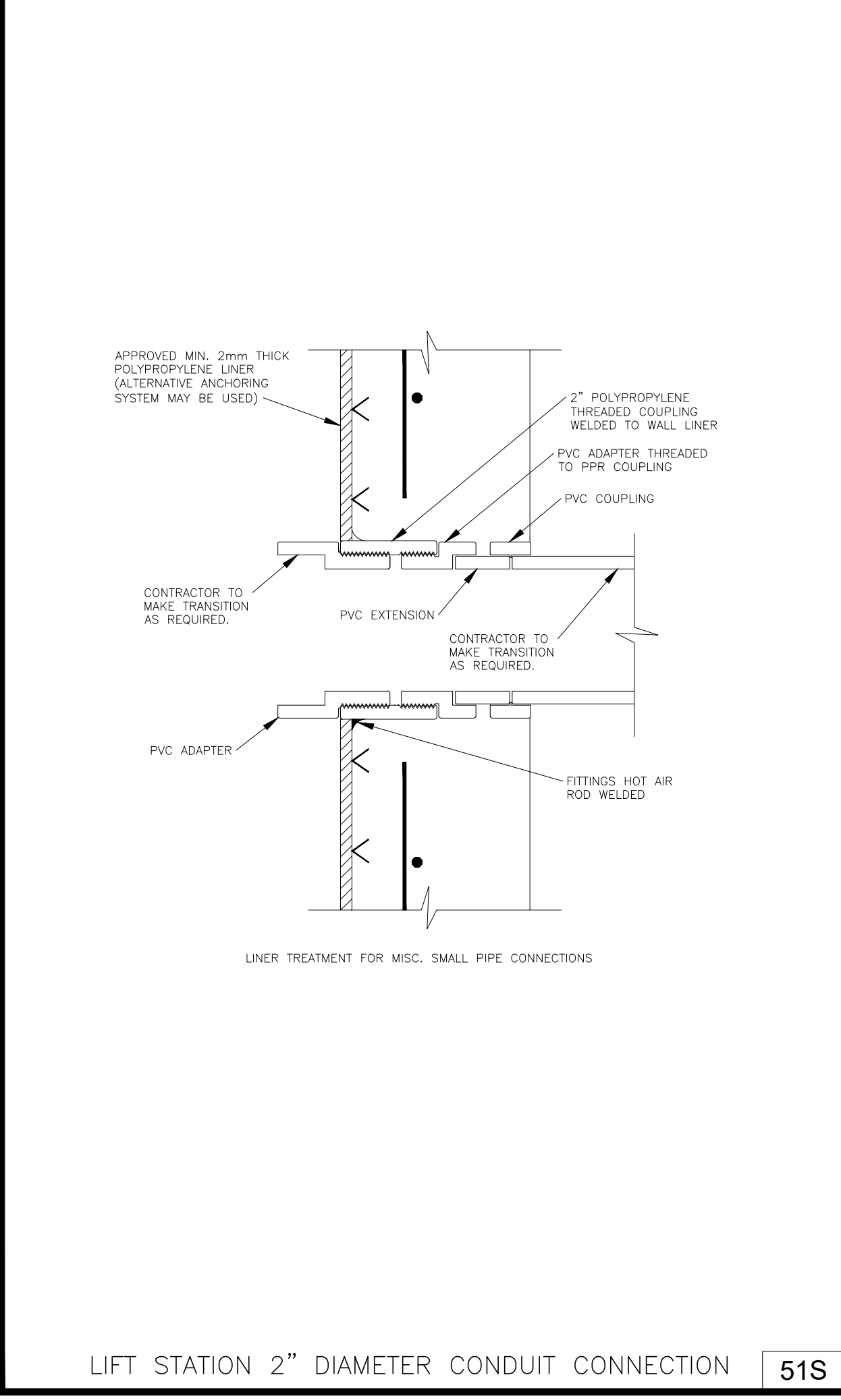
TYPICAL LIFT STATION SECTION DROP PIPE DETAIL & NOTES * 495B



TYPICAL LIFT STATION VALVE VAULT PRESSURE TRANSMITTER DETAIL & NOTES * 495C



LIFT STATION TOP SLAB * 505



LIFT STATION 2" DIAMETER CONDUIT CONNECTION * 515

PROPOSED		WET WELL DATA	
STATION NUMBER	AS-BUILT	HIGH WATER ALARM	
DIAMETER		STANDBY PUMP ON	
TOP SLAB ELEV.		DUTY PUMP ON	
BASE SLAB ELEV.		BOTH PUMPS OFF	
INFLUENT ELEV.		FINISHED GRADE	
		LOCATED ON SHEET	

PUMP DATA	
PUMP STATION NUMBER	
PUMP NUMBER	
MAX./MIN. G.P.M.	
MIN./MAX. T.D.H	
MANUFACTURER	
MODEL	
IMPELLER NUMBER	
R.P.M.	
H.P.	
SIZE	
MAX. SOLID SIZE	
PHASE	
CYCLE	
VOLTS	

RTU RECORD DATA	
ADDRESS	
GEOGRAPHICAL LOCATION	LOCATION DESCRIPTION
HEIGHT OF ANTENNA ABOVE SLAB	FEET (DISTANCES AND DIRECTIONS FROM CENTERLINES AND/OR INTERSECTIONS OF STREETS, CANALS OR EQUAL)
FREQUENCY	MHZ
POWER	WATTS
P.B.C. LIFT STATION No.	

LIFT STATION MECHANICAL STANDARD DETAILS, 1 OF 2

CONSULTANT:

DESIGNED BY: WUD

DRAWN BY: M. BUCKNER
CHECKED BY: J. LAMMERT
APPROVED BY: WUD

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Water Utilities Department
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West Palm Beach, FL 33416-6097

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SHEET NUMBER 0 OF 0

SEP 19, 2024