


GENERAL NOTES

- PUMP STATION PIPING BETWEEN WETWELL & VALVE VAULT IS FLANGED-END TO PLAIN-END D.I.P., UNLESS SHOWN OTHERWISE.
- ALL PIPING LOCATED IN WET WELL AND VALVE VAULT SHALL BE FLANGE JOINT EPOXY COATING SYSTEM AND PROTECTO 401 LINED DUCTILE IRON CLASS 53. ALL BURIED PIPING OUTSIDE OF WET WELL AND VALVE VAULT SHALL BE MECHANICAL JOINT DUCTILE IRON CLASS 51 RESTRAINED JOINT UNLESS OTHERWISE NOTED.
- ALL D.I.P. & FITTINGS SHALL BE LINED WITH PROTECTO 401 AND EPOXY COATED. REPAIR CUT SECTIONS PRIOR TO INSTALLATION.
- PUMP STATION WET WELL INTERIOR SHALL BE LINED WITH RAVEN 400 COATING SYSTEM.
- ALL PIPE & CONDUIT PENETRATIONS IN WETWELL AND VALVE VAULT TO BE CORED AND FITTED WITH LINK SEAL.
- VALVE VAULT PIPING SHALL BE SUPPORTED WITH STAINLESS STEEL SUPPORT STANCHIONS AS SHOWN ON THE DRAWINGS.
- INSTALL A 1/4" TAP AND TEST COCK ON PIPING WITHIN VALVE VAULT.
- FOR ORIENTATION OF WETWELL AND VALVE VAULT SEE PLAN AND PROFILE SHEETS.
- SEWER PUMP STATION PLANS DESIGNED AND DRAWN AROUND THE FLYGT NP3153 HT PUMPS. CONTRACTOR IS RESPONSIBLE FOR ANY DESIGN CHANGES TO WET WELL, PUMP BASE PADS, PIPING, AND ANY OTHER RELATED PUMP STATION COMPONENTS IF CONTRACTOR CHOOSES TO USE AN APPROVED EQUAL.
- PUMP OPERATION SHALL BE CONTROLLED BY WET WELL CONTROL FLOAT SWITCHES. CONTROL FLOAT SWITCH ELEVATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT BY CONTRACTOR.
- INFLUENT GRAVITY PIPE CONNECTION IN WET WELL SHALL UTILIZE AN INSIDE DROP PIPE.
- SEE PUMP STATION SECTION A-A FOR MATERIAL NOTES.

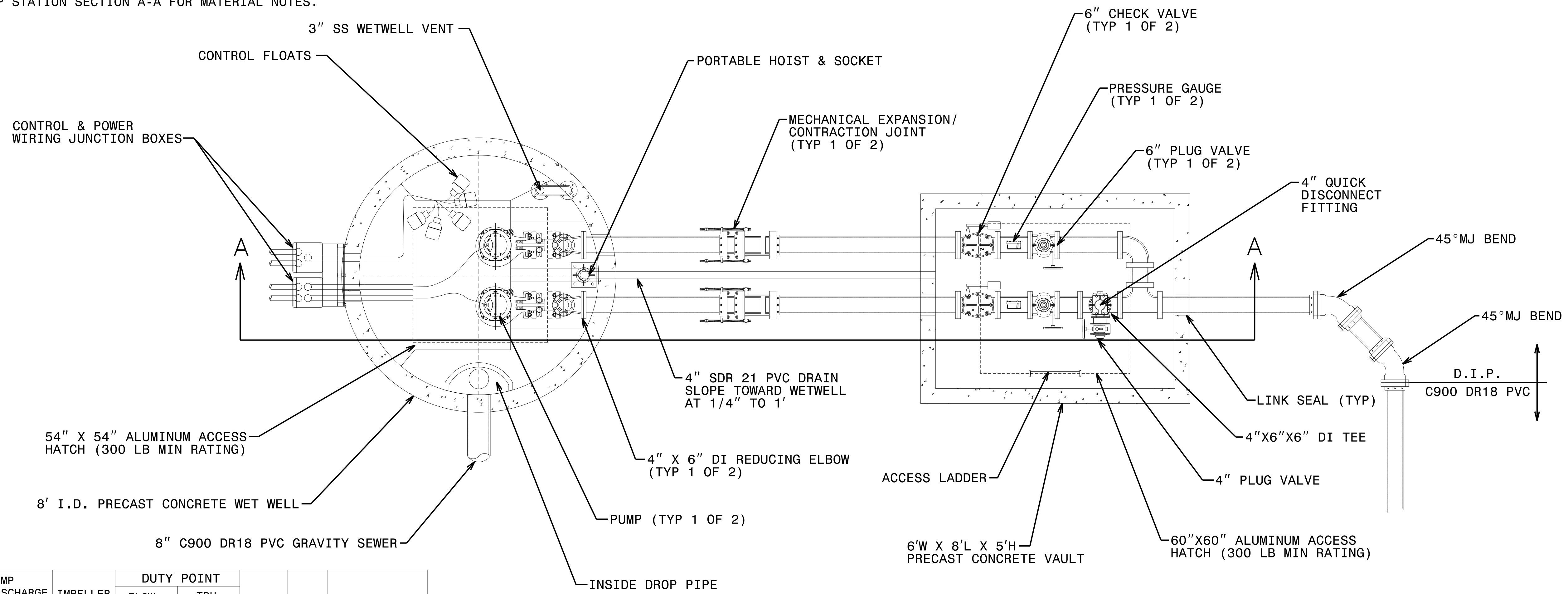
SEQUENCE OF CONSTRUCTION

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO CONSTRUCTION.
- INSTALL E&S CONTROLS (I.E. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE & SILT FENCE). MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES DURING THE COURSE OF CONSTRUCTION.
- CLEAR & GRUB AS NEEDED WITHIN THE LIMITS OF DISTURBANCE TO INSTALL THE PUMP STATION. REMOVE TREES AS REQUIRED TO CONSTRUCT PUMP STATION SITE. TREES & STUMPS TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. CONTRACTOR SHALL MINIMIZE, TO THE EXTENT PRACTICAL, DISTURBANCE WITHIN THE PUMP STATION LIMITS OF DISTURBANCE.
- INSTALL WETWELL. INSTALL CONCRETE GROUT IN WETWELL BOTTOM PER PUMP MANUFACTURER REQUIREMENTS. APPLY RAVEN 400 COATING SYSTEM TO THE ENTIRE WETWELL INTERIOR. CONSTRUCT THE REMAINING PUMP STATION ITEMS, E.G., VALVE VAULT, GRAVEL PAD, ELECTRICAL, GRAVITY SEWER, FORCEMAIN, 1" WATER SERVICE, FENCING, ETC.
- COMPLETE PUMP STATION START-UP, TRAINING, AND ACCEPTANCE TESTING WITH SOUTHEAST BRUNSWICK SANITARY DISTRICT PRIOR TO PLACING PUMP STATION INTO SERVICE.
- UPON COMPLETION OF CONSTRUCTION AND SUCCESSFUL ESTABLISHMENT OF PERMANENT VEGETATIVE COVER, REMOVE EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES WITH APPROVAL FROM SEDIMENT & EROSION CONTROL INSPECTOR.
- PUMP STATION SHALL BE IN SERVICE PRIOR TO DEMOLITION OF EXISTING PUMP STATION.

PROJECT REFERENCE NO.	SHEET NO.
R-5021	UC-P7
DESIGNED BY: DWT	
DRAWN BY: RAS	
CHECKED BY: JWC	
APPROVED BY: BMB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



PUMP STATION NUMBER	PUMP DISCHARGE DIAMETER	IMPELLER DIAMETER	DUTY POINT		RPM	HP	VOLTAGE / PHASE
			FLOW (GPM)	TDH (FT)			
4	4	230 MM	220	71	1800	12	480/3

PUMP SPECIFICATIONS
NO SCALE

PUMP STATION MECHANICAL PLAN




P: (919) 978-9560
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3960
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

5/14/99
 R:\Projects\Engineering\UC\Proj\Pump Station\282.013.R-5021\ut-ps-mech-plan_UCP07_psh.dgn