

UTILITY DETAILS SEWER LIFT STATION SCHEMATIC OPTION A

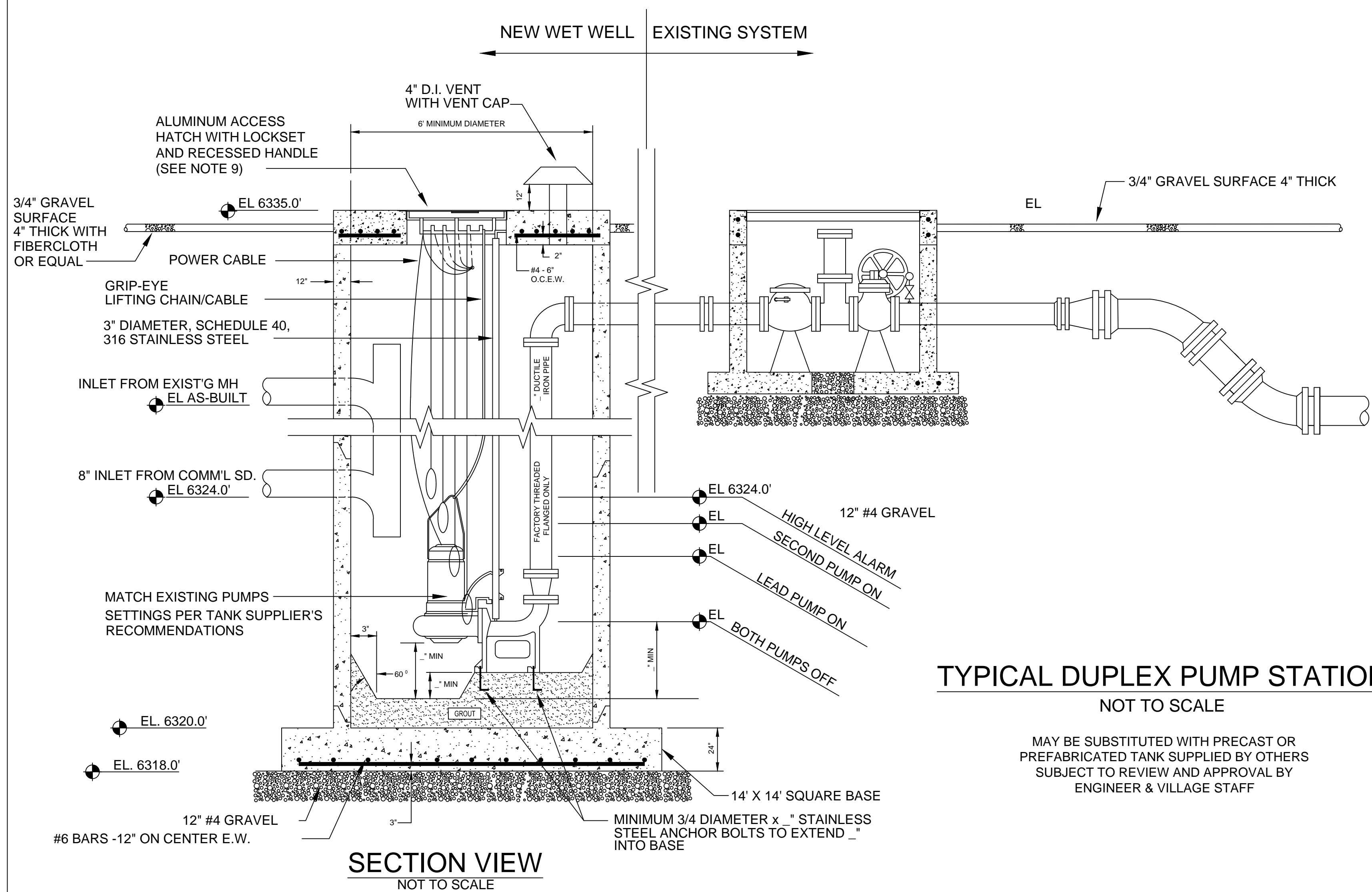
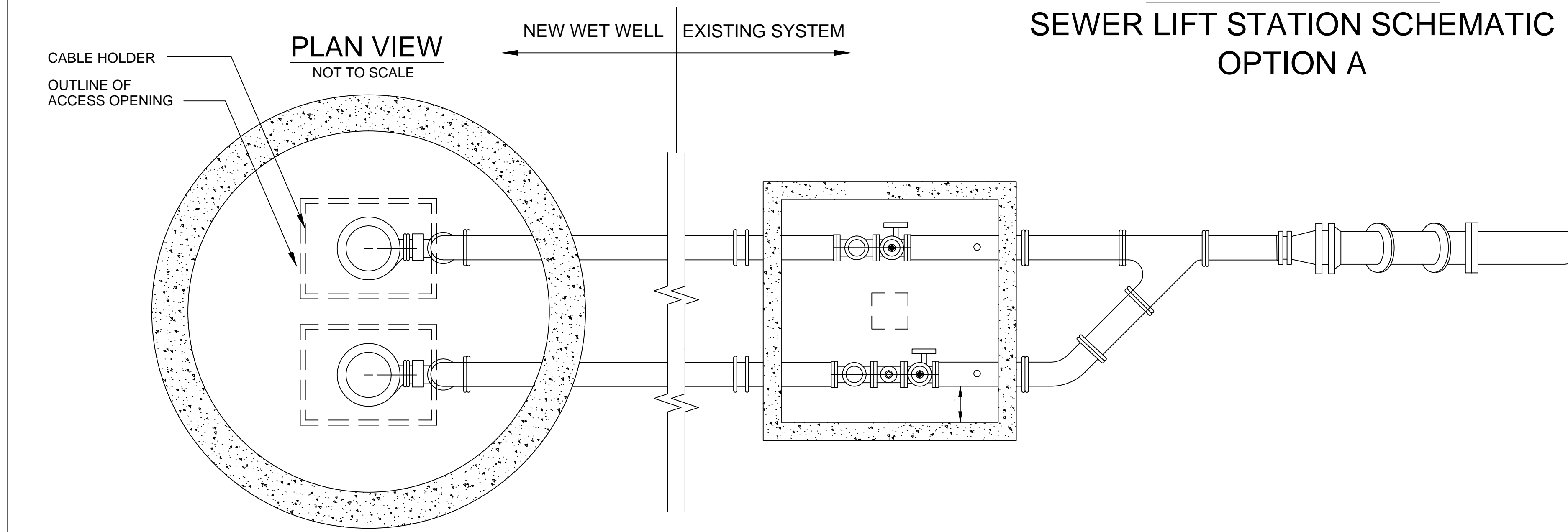
DESCRIPTION OF WORK

THIS PART OF THE PROJECT IS TO CONNECT THE SEWERLINE FROM THE COMMERCIAL PHASE TO THE EXISTING SYSTEM AND INCLUDES:

- BORE & JACK A 14" STEEL CASING UNDER ENTIRE R/W ~~OFF R/W~~
- INSTALL MANHOLE AT NORTH CASING TERMINUS
- INSTALL NEW WET WELL NEXT TO CAPITAN'S EXISTING WET WELL SOUTH OF R/W
- PUMP MOUNTING IS TO BE COMPATIBLE WITH PUMPS IN EXISTING WET WELL
- INSTALL NEW 8" SEWER LINE FROM MH, THROUGH CASING, INTO NEW WET WELL
- REMOVE ONE PUMP FROM EXISTING WET WELL AND TEST
- INSTALL 8" BYPASS LINE W/VALVE FROM EXISTING MANHOLE AT EXISTING WET WELL TO NEW WET WELL
- TRANSFER POWER LINE AND AIR LINE FROM EXISTING WET WELL TO NEW WET WELL AND TEST
- DE-COMMISSION EXISTING WET WELL AFTER ONE MONTH

GENERAL NOTES:

1. PRECAST CONCRETE WET WELL OR 6' DIA. MIN. REINFORCED CONCRETE PIPE, CLASS III; EITHER TO HAVE 4000 P.S.I. TYPE II CONCRETE. JOINTS TO BE "O" RING, BITUMINOUS PLASTIC CEMENT OR PREFORMED PLASTIC JOINT SEALING COMPOUND.
2. WETWELLS SHALL BE CONSTRUCTED WITH A HIGH DENSITY POLYETHYLENE LINER OR FIBERGLASS LINER CAST IN DURING CONSTRUCTION. THIS LINER SHALL BE AGRU SUREGRIP HDPE LINER, OR GU FIBERGLASS LINER, OR EQUAL.
3. VALVE VAULT DOORS SHALL BE SIZED AND INSTALLED TO PERMIT EASY REMOVAL OF VALVES, TO PERMIT ACCESS AND VISIBILITY OF PRESSURE GAGES AND TO PERMIT EASY ACCESS TO VALVE ACTUATORS.
4. ALL EXPOSED METAL SHALL BE PRIMED WITH 2 COATS OF EXTERIOR ENAMEL PAINT.
5. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE OR NON-SHRINK GROUT.
6. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE 316 STAINLESS STEEL.
7. WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE AND LOCK BRACKET. SIZE AS REQUIRED BY PUMP MANUFACTURER AND APPROVED BY THE VILLAGE OF CAPITAN. COVERS SHALL BE INSTALLED BY THE CONTRACTOR.
8. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
9. FLEXIBLE COUPLINGS SHALL BE SLEEVE TYPE.
10. PUMPS COMPLETE WITH CHAIN HOOKS, T-RAIL SYSTEM, CABLE HOLDERS AND 4 BULB MERCURY FLOAT SYSTEM, SHALL BE INSTALLED BY THE CONTRACTOR.
11. CONTRACTOR SHALL COORDINATE WITH PUMP MANUFACTURER DIRECTLY TO DETERMINE ANCHOR BOLT SPACING AND CLEARANCE DIMENSIONS.
12. COORDINATE WITH PUMP MANUFACTURER FOR ALL INSTALLATION INSTRUCTIONS.
13. ALL PUMP ACCESSORIES AND ELECTRICAL COMPONENTS SHALL BE INSTALLED BY THE CONTRACTOR. PUMPS WILL BE INSTALLED BY THE CONTRACTOR UNLOADING OF ALL EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. FIELD PAINTING: ALL STEEL OR METAL SURFACES INCLUDING PIPE, FITTINGS AND EQUIPMENT FURNISHED BY OWNER. CLEAN SURFACES JUST PRIOR TO PAINTING. DIRT AND DUST SHALL BE BRUSHED OFF, GREASE WASHED AWAY BY USE OF AN APPROVED THINNER, OTHER CONTAMINANTS REMOVED EFFECTIVELY, AND UNPAINTED AND ABRASED AREAS WIRE BRUSHED TO REMOVE RUST AND THE OXIDES WHICH WILL HAVE FORMED. THE EXPOSED SURFACES SHALL THEN RECEIVE TWO (2) COATS OF ALKYD FINISH PAINT. THE FINISH COATS SHALL BE APPLIED AT THE DRY FILM THICKNESS AS RECOMMENDED BY THE MANUFACTURER. THE FIRST COAT SHALL BE TINTED WITH A SMALL AMOUNT OF CARBON BLACK TO INSURE FULL COVERAGE WITH THE SECOND COAT.
15. INSTALL VENT STACK BIOFILTER BY BIOCUBE, INC. OR EQUAL.
16. PROVIDE IMPELLER PULLER TOOL AND REBUILD KIT.
17. ALL LIFT STATION SUBMITTALS SHALL BE APPROVED BY VILLAGE OF CAPITAN & ENGINEER PRIOR TO CONSTRUCTION. (3) COPIES TO BE PROVIDED.



TYPICAL DUPLEX PUMP STATION

NOT TO SCALE

MAY BE SUBSTITUTED WITH PRECAST OR PREFABRICATED TANK SUPPLIED BY OTHERS SUBJECT TO REVIEW AND APPROVAL BY ENGINEER & VILLAGE STAFF