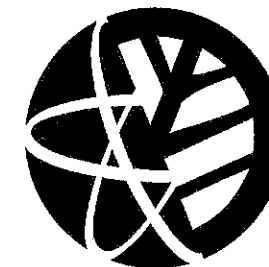


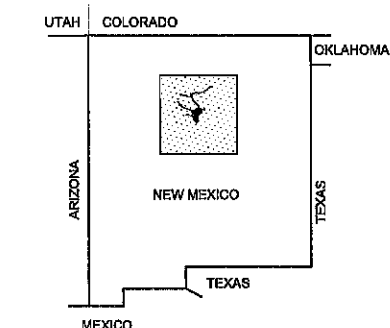
Lift Station Rehabilitation Project - Los Arboles and North Road

IFB-2025-30

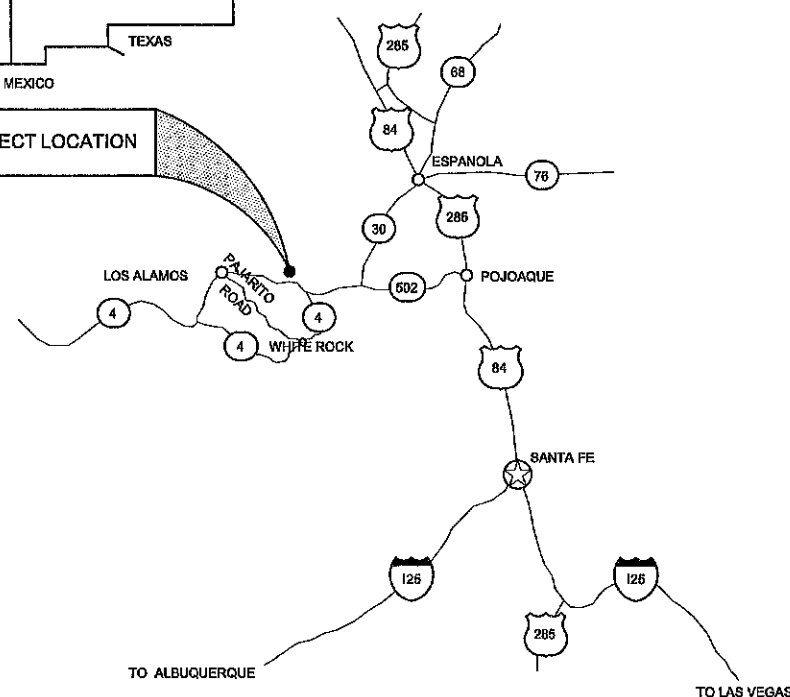
LOS ALAMOS COUNTY - NEW MEXICO



LOS ALAMOS

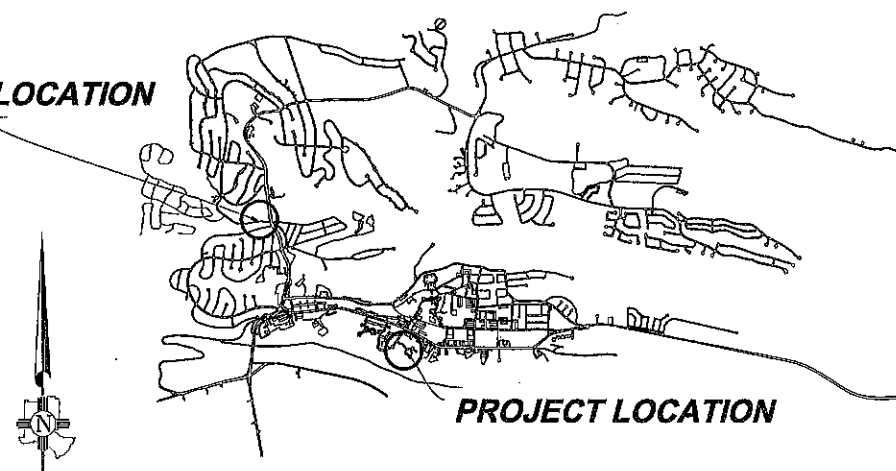


PROJECT LOCATION



NEW MEXICO REGIONAL MAP

NOT TO SCALE

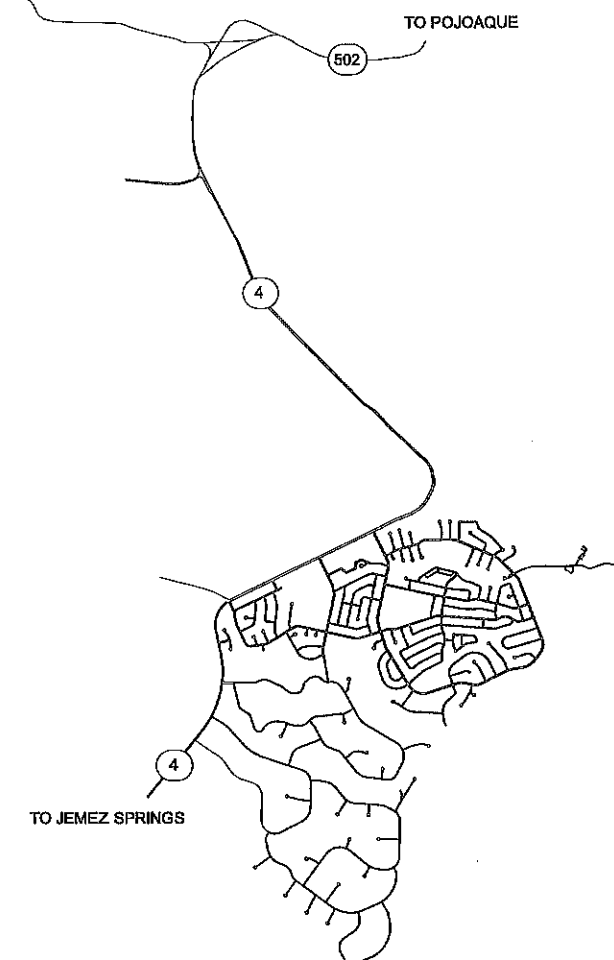
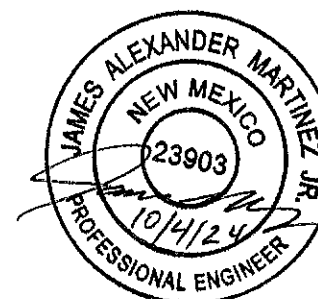


LOS ALAMOS VICINITY MAP

NOT TO SCALE

SHEET INDEX

	TITLE SHEET
2	LOS ARBOLES SITE PLAN
3	LOS ARBOLES SITE PLAN ELECTRICAL TRENCHING
4	LOS ARBOLES ELECTRICAL IMPROVEMENTS
5	LOS ARBOLES MECHANICAL IMPROVEMENTS
6	LOS ARBOLES PUMP SPECIFICATIONS
7	NORTH ROAD SITE PLAN
8	NORTH ROAD ELECTRICAL IMPROVEMENTS
9	NORTH ROAD MECHANICAL IMPROVEMENTS
10	NORTH ROAD PUMP SPECIFICATIONS
11	ELECTRICAL TRENCHING STANDARD



WHITE ROCK VICINITY MAP

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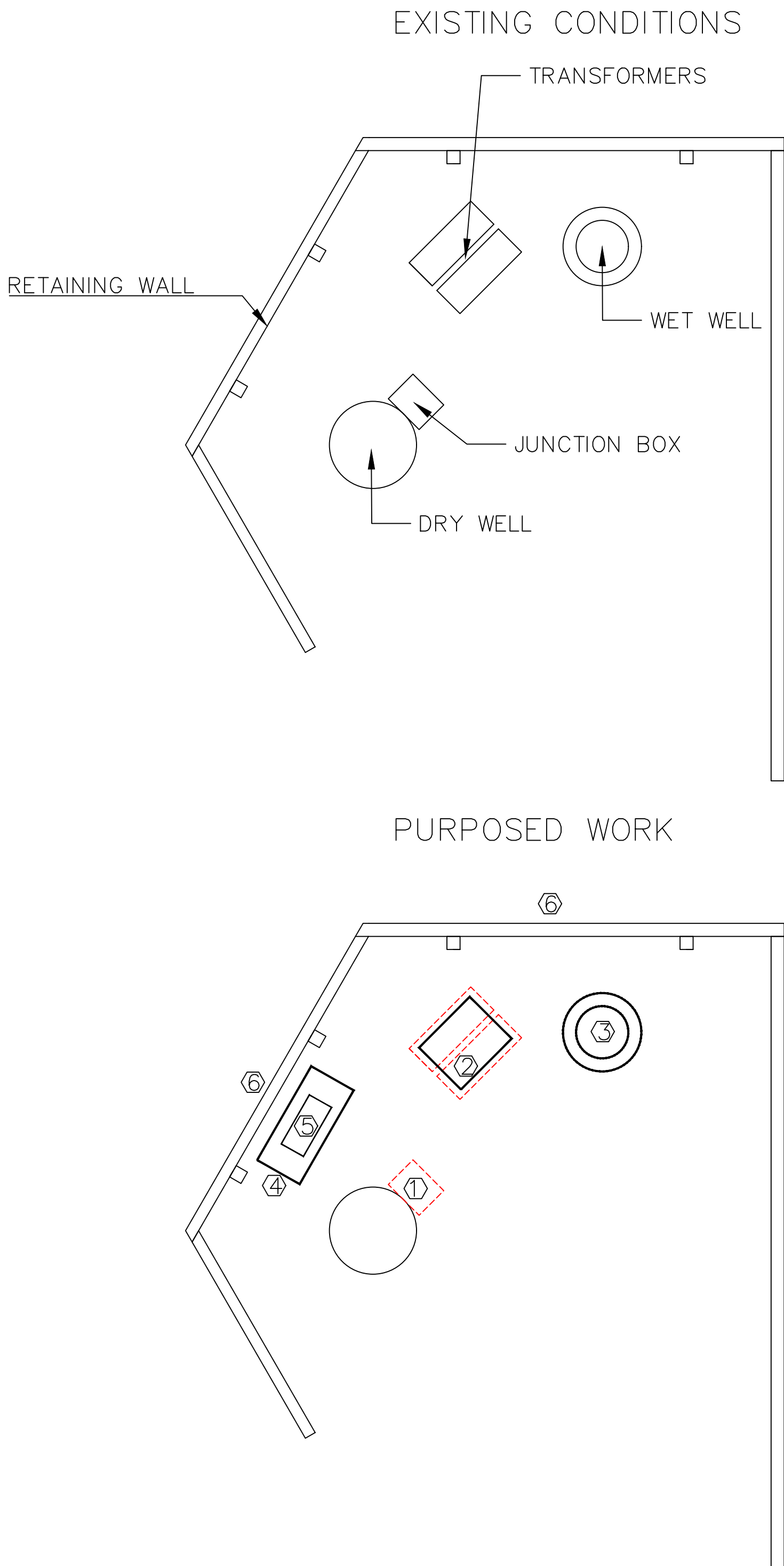
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UTILITIES PROJECT ENGINEER

DATE _____

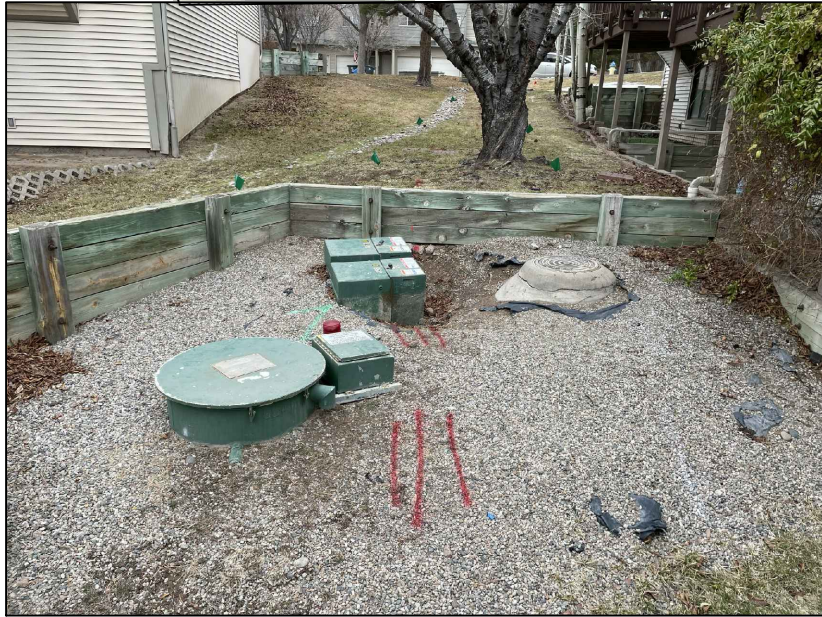
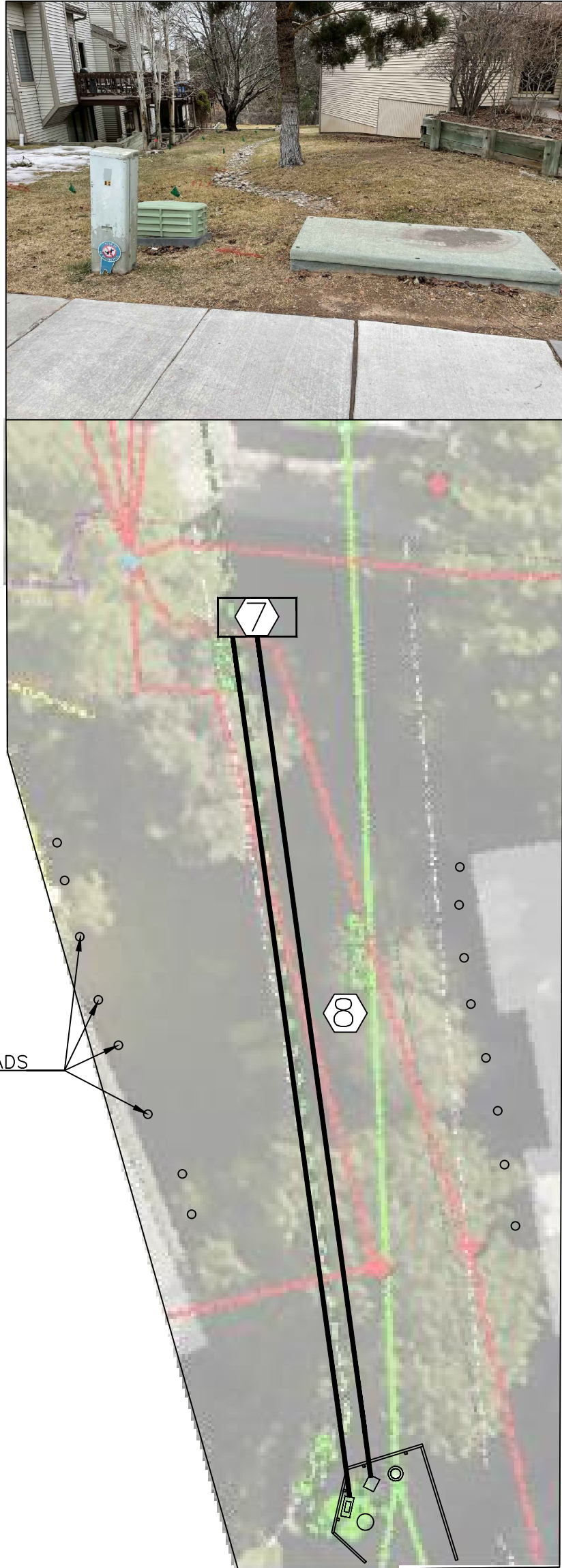
DEPARTMENT OF PUBLIC UTILITIES
ENGINEERING ASSOCIATE

DATE _____

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EXISTING SPRINKLER HEADS



GENERAL NOTES

- EXISTING SPRINKLER IRRIGATION SYSTEM PIPING LOCATION UNKNOWN, SPRINKLER HEADS NEAR BUILDINGS. COORDINATE WITH HOA TO LOCATE
- HAND DIGGING REQUIRED AROUND TREE ROOTS
- RETURN LANDSCAPING TO EXISTING CONDITIONS OR BETTER
- LAC LINEMEN TO INSTALL TRANSFORMER AND REMOVAL OF EXISTING TRANSFORMER, CONTRACTOR TO COORDINATE WITH LINEMEN FOR ALL ELECTRICAL INSTALLATIONS
- DURING SEWAGE OUTAGE, CONTRACTOR MUST MANUALLY BY-PASS FORCE MAIN WITH PUMP FROM WET WELL

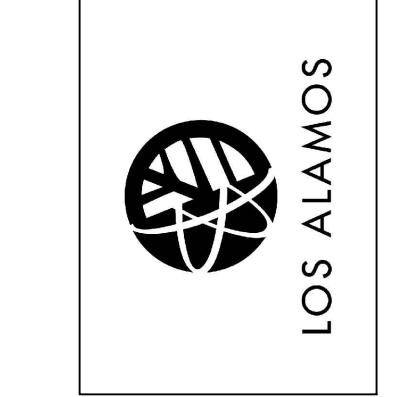
KEYED NOTES

- REMOVE EXISTING JUNCTION BOX REFINISH DRY WELL WALL FROM WELDING MARKS
- CONTRACTOR TO EXCAVATING EXISTING TRANSFORMER BOXES AND INSTALL NEW FLUSH BOX AS PER STANDARDS IN COORDINATION WITH DPU LINEMEN
- REMOVE EXISTING BROKEN 4' RING AND COVER. REPLACE EXISTING COLLAR AND LID WITH NEW CONCRETE COLLAR AND LID
- INSTALL 5'X2' CONCRETE PAD ROUTE NEW CONDUIT INTO PAD
- INSTALL NEW CONTROL PANEL AS DETAILED ON SHEET 4
- REMOVE EXISTING TIMBER BEAMS AS NEEDED FOR ACCESS AND REPLACE TO EXISTING CONDITIONS AT COMPLETION OF WORK
- INSTALL CONCRETE PAD FOR NEW ELECTRICAL TRANSFORMER AS PER STANDARDS, TRANSFORMER BE INSTALLED BY DPU LINEMAN. REFER TO SHEET 2A FOR DETAILS
- INSTALL 2-90FT 4" CONDUITS FROM TRANSFORMER TO NEW CONTROL PANEL AND NEW FLUSH BOX, AND 9FT 4" CONDUIT FROM EXISTING JBOX TO NEW TRANSFORMER. OWNER TO PROVIDE WIRING. DPU LINEMEN TO PULL THE CABLES ON PRIMARIES AND CONTRACTOR TO SECONDARIES. REFER TO SHEET 2A FOR DETAILS

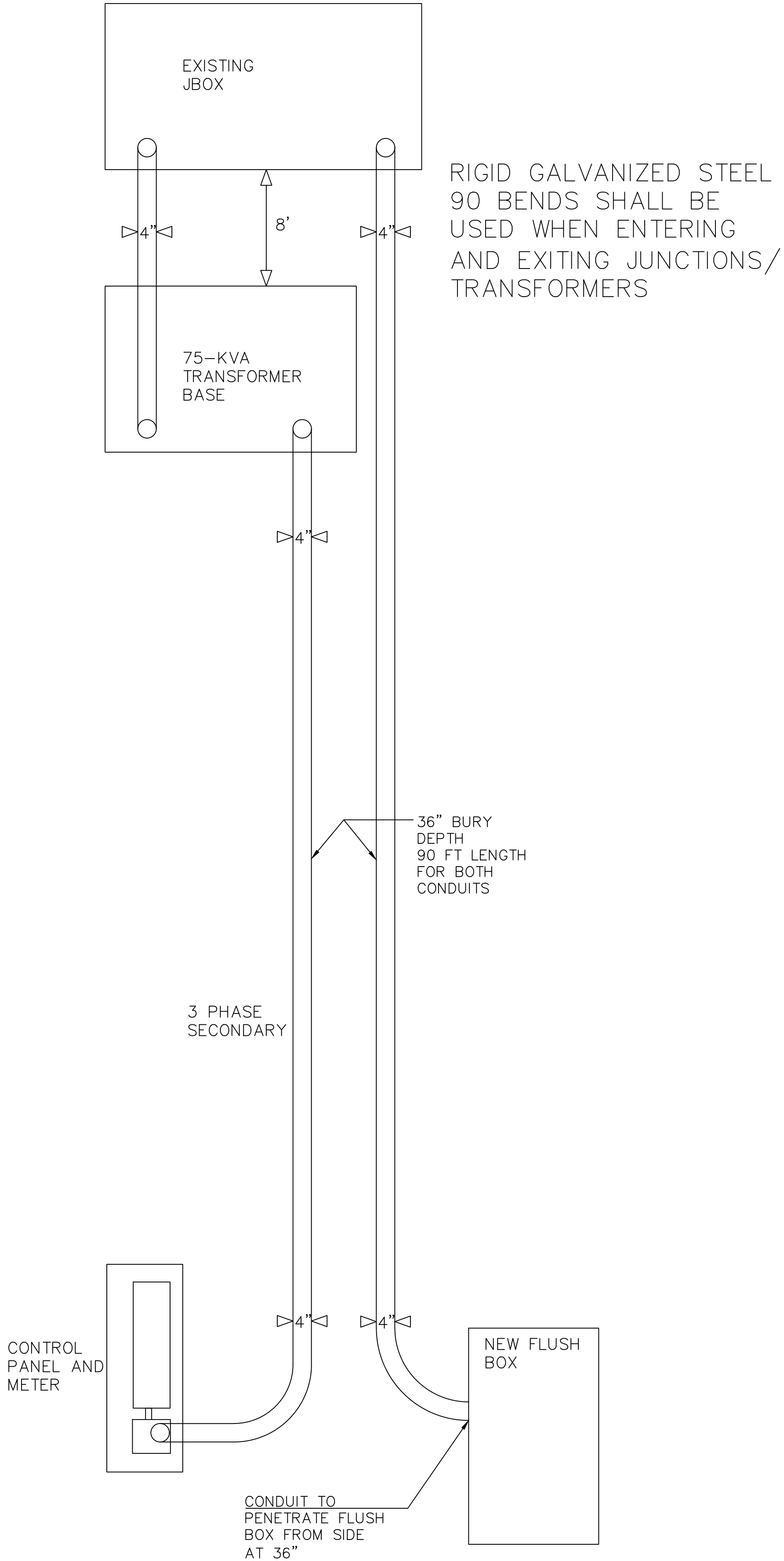
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LOS ARBOLES LIFT STATION IMPROVEMENTS	SITE PLAN
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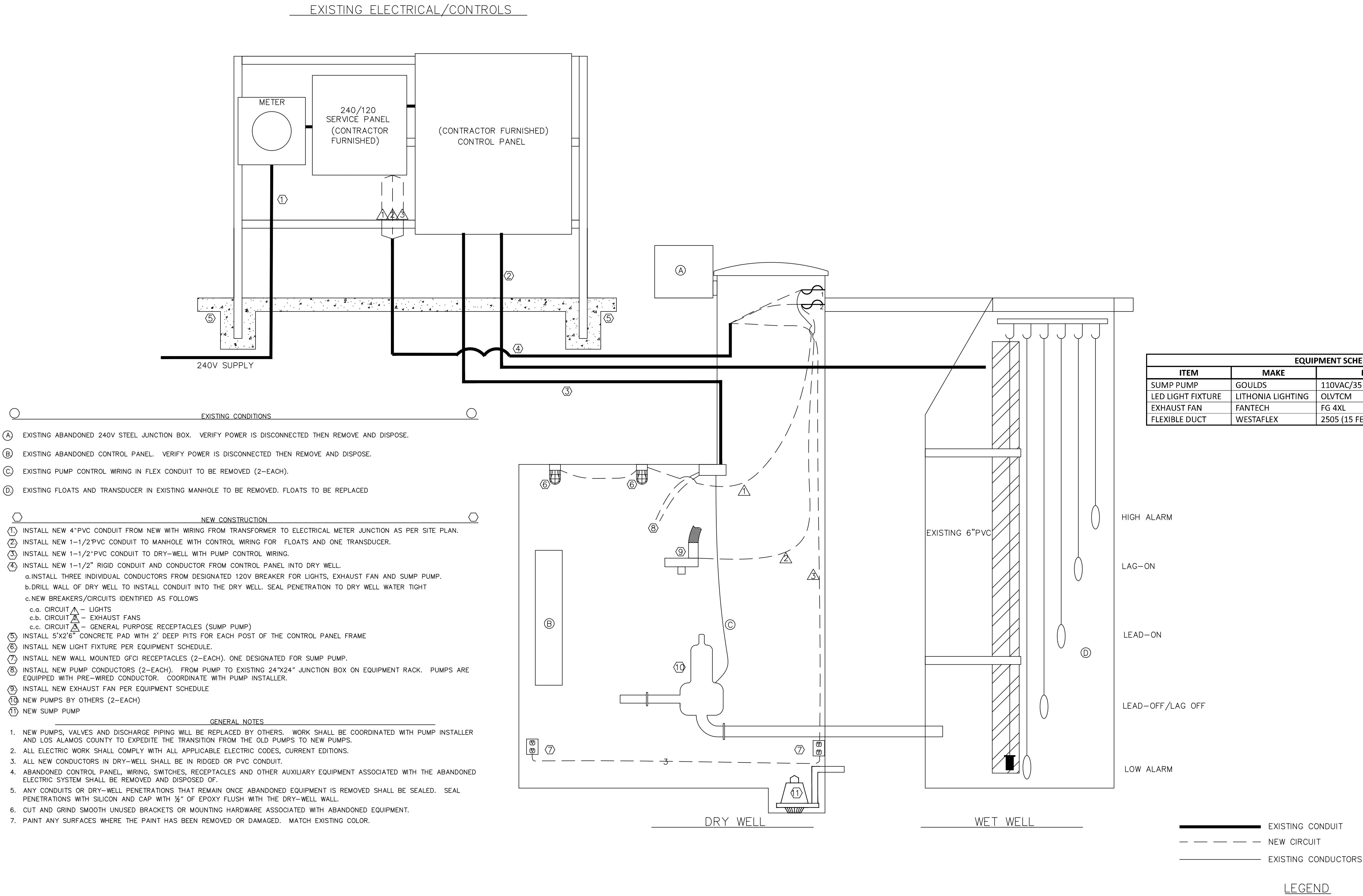
LOS ARBOLES
LIFT STATION IMPROVEMENTS

SITE PLAN (ELECTRICAL TRENCHING)



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- EXISTING CONDITIONS
- Ⓐ EXISTING ABANDONED 240V STEEL JUNCTION BOX. VERIFY POWER IS DISCONNECTED THEN REMOVE AND DISPOSE.
- Ⓑ EXISTING ABANDONED CONTROL PANEL. VERIFY POWER IS DISCONNECTED THEN REMOVE AND DISPOSE.
- Ⓒ EXISTING PUMP CONTROL WIRING IN FLEX CONDUIT TO BE REMOVED (2-EACH).
- Ⓓ EXISTING FLOATS AND TRANSDUCER IN EXISTING MANHOLE TO BE REMOVED. FLOATS TO BE REPLACED

- ⬡ NEW CONSTRUCTION
- ① INSTALL NEW 4" PVC CONDUIT FROM NEW WITH WIRING FROM TRANSFORMER TO ELECTRICAL METER JUNCTION AS PER SITE PLAN.
- ② INSTALL NEW 1-1/2" PVC CONDUIT TO MANHOLE WITH CONTROL WIRING FOR FLOATS AND ONE TRANSDUCER.
- ③ INSTALL NEW 1-1/2" PVC CONDUIT TO DRY-WELL WITH PUMP CONTROL WIRING.
- ④ INSTALL NEW 1-1/2" RIGID CONDUIT AND CONDUCTOR FROM CONTROL PANEL INTO DRY WELL.
- a. INSTALL THREE INDIVIDUAL CONDUCTORS FROM DESIGNATED 120V BREAKER FOR LIGHTS, EXHAUST FAN AND SUMP PUMP.
- b. DRILL WALL OF DRY WELL TO INSTALL CONDUIT INTO THE DRY WELL. SEAL PENETRATION TO DRY WELL WATER TIGHT
- c. NEW BREAKERS/CIRCUITS IDENTIFIED AS FOLLOWS
- c.a. CIRCUIT ⚠ — LIGHTS
- c.b. CIRCUIT ⚠ — EXHAUST FANS
- c.c. CIRCUIT ⚠ — GENERAL PURPOSE RECEPTACLES (SUMP PUMP)
- ⑤ INSTALL 5'X2'6" CONCRETE PAD WITH 2' DEEP PITS FOR EACH POST OF THE CONTROL PANEL FRAME
- ⑥ INSTALL NEW LIGHT FIXTURE PER EQUIPMENT SCHEDULE.
- ⑦ INSTALL NEW WALL MOUNTED GFCI RECEPTACLES (2-EACH). ONE DESIGNATED FOR SUMP PUMP.
- ⑧ INSTALL NEW PUMP CONDUCTORS (2-EACH). FROM PUMP TO EXISTING 24"X24" JUNCTION BOX ON EQUIPMENT RACK. PUMPS ARE EQUIPPED WITH PRE-WIRED CONDUCTOR. COORDINATE WITH PUMP INSTALLER.
- ⑨ INSTALL NEW EXHAUST FAN PER EQUIPMENT SCHEDULE
- ⑩ NEW PUMPS BY OTHERS (2-EACH)
- ⑪ NEW SUMP PUMP

- GENERAL NOTES
1. NEW PUMPS, VALVES AND DISCHARGE PIPING WILL BE REPLACED BY OTHERS. WORK SHALL BE COORDINATED WITH PUMP INSTALLER AND LOS ALAMOS COUNTY TO EXPEDITE THE TRANSITION FROM THE OLD PUMPS TO NEW PUMPS.
2. ALL ELECTRIC WORK SHALL COMPLY WITH ALL APPLICABLE ELECTRIC CODES, CURRENT EDITIONS.
3. ALL NEW CONDUCTORS IN DRY-WELL SHALL BE IN RIDGED OR PVC CONDUIT.
4. ABANDONED CONTROL PANEL, WIRING, SWITCHES, RECEPTACLES AND OTHER AUXILIARY EQUIPMENT ASSOCIATED WITH THE ABANDONED ELECTRIC SYSTEM SHALL BE REMOVED AND DISPOSED OF.
5. ANY CONDUITS OR DRY-WELL PENETRATIONS THAT REMAIN ONCE ABANDONED EQUIPMENT IS REMOVED SHALL BE SEALED. SEAL PENETRATIONS WITH SILICON AND CAP WITH 1/2" OF EPOXY FLUSH WITH THE DRY-WELL WALL.
6. CUT AND GRIND SMOOTH UNUSED BRACKETS OR MOUNTING HARDWARE ASSOCIATED WITH ABANDONED EQUIPMENT.
7. PAINT ANY SURFACES WHERE THE PAINT HAS BEEN REMOVED OR DAMAGED. MATCH EXISTING COLOR.

EQUIPMENT SCHEDULE			
ITEM	MAKE	MODEL	GRAINGER CATALOG #
SUMP PUMP	GOULDS	110VAC/35 GPM @ 10' TDH	462D15
LED LIGHT FIXTURE	LITHONIA LIGHTING	OLVTCM	26X701
EXHAUST FAN	FANTECH	FG 4XL	15W687
FLEXIBLE DUCT	WESTAFLEX	2505 (15 FEET)	3C591

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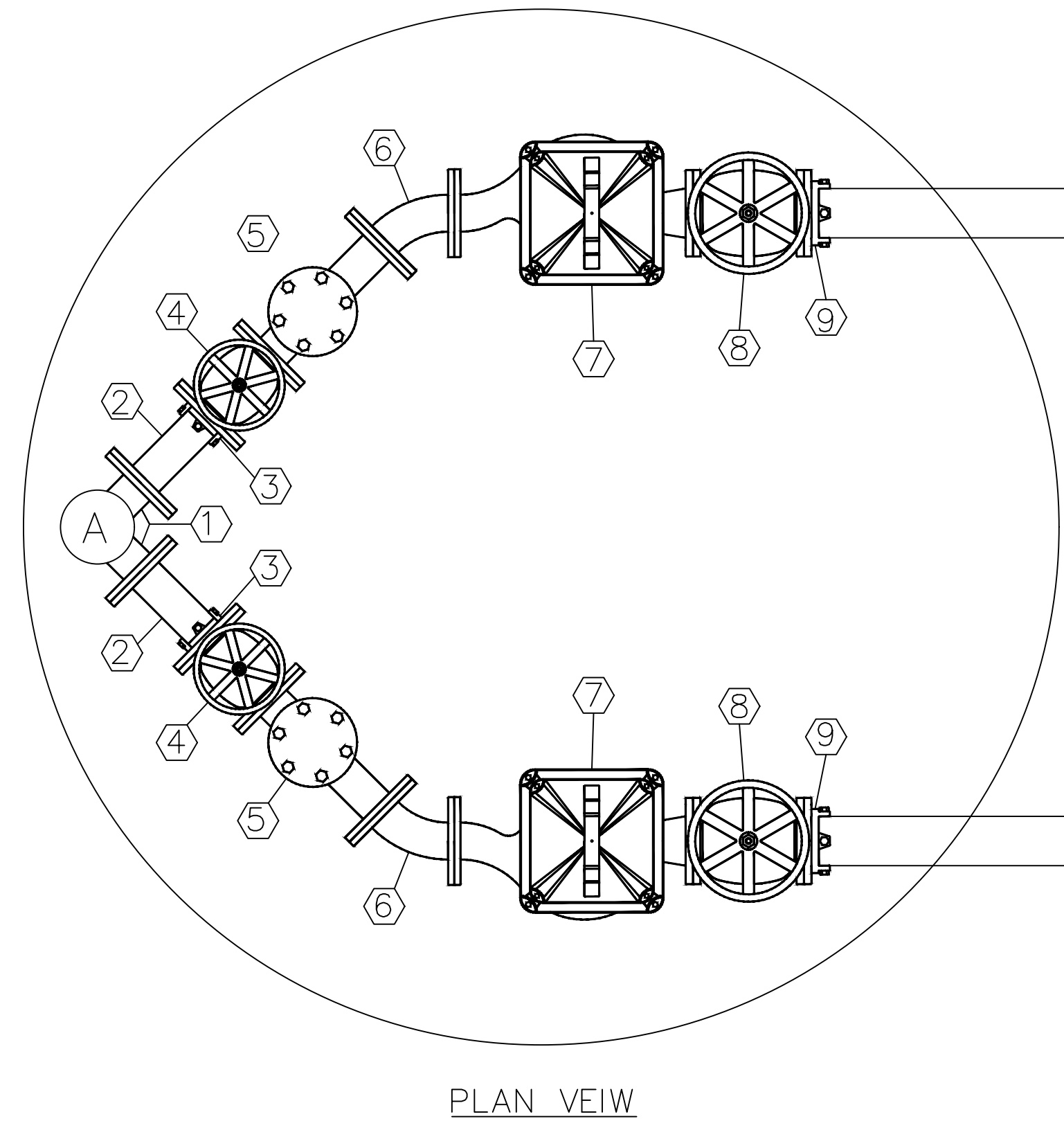
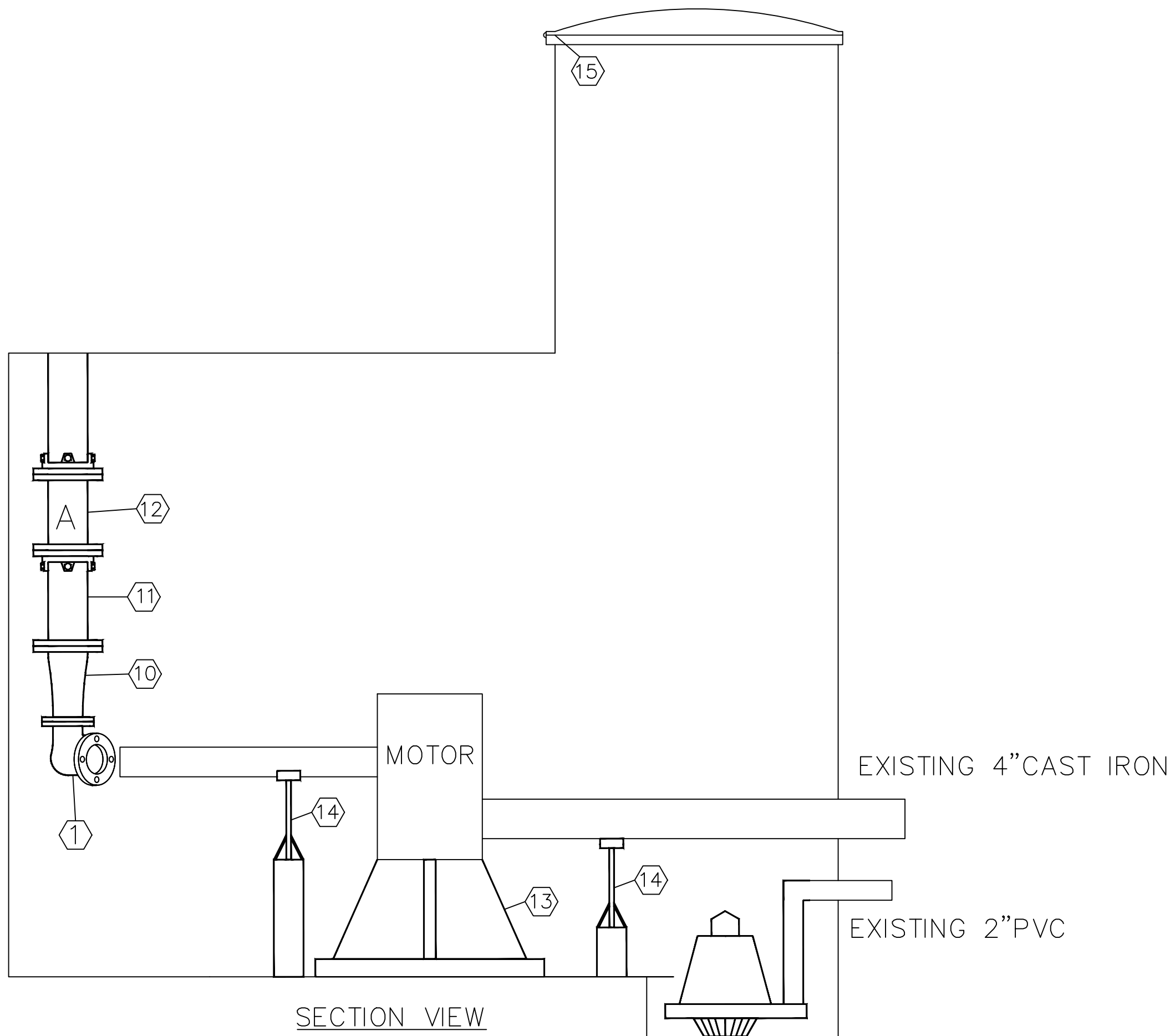
LOS ARBOLES
LIFT STATION IMPROVEMENTS
ELECTRICAL IMPROVEMENTS

LOS ALAMOS

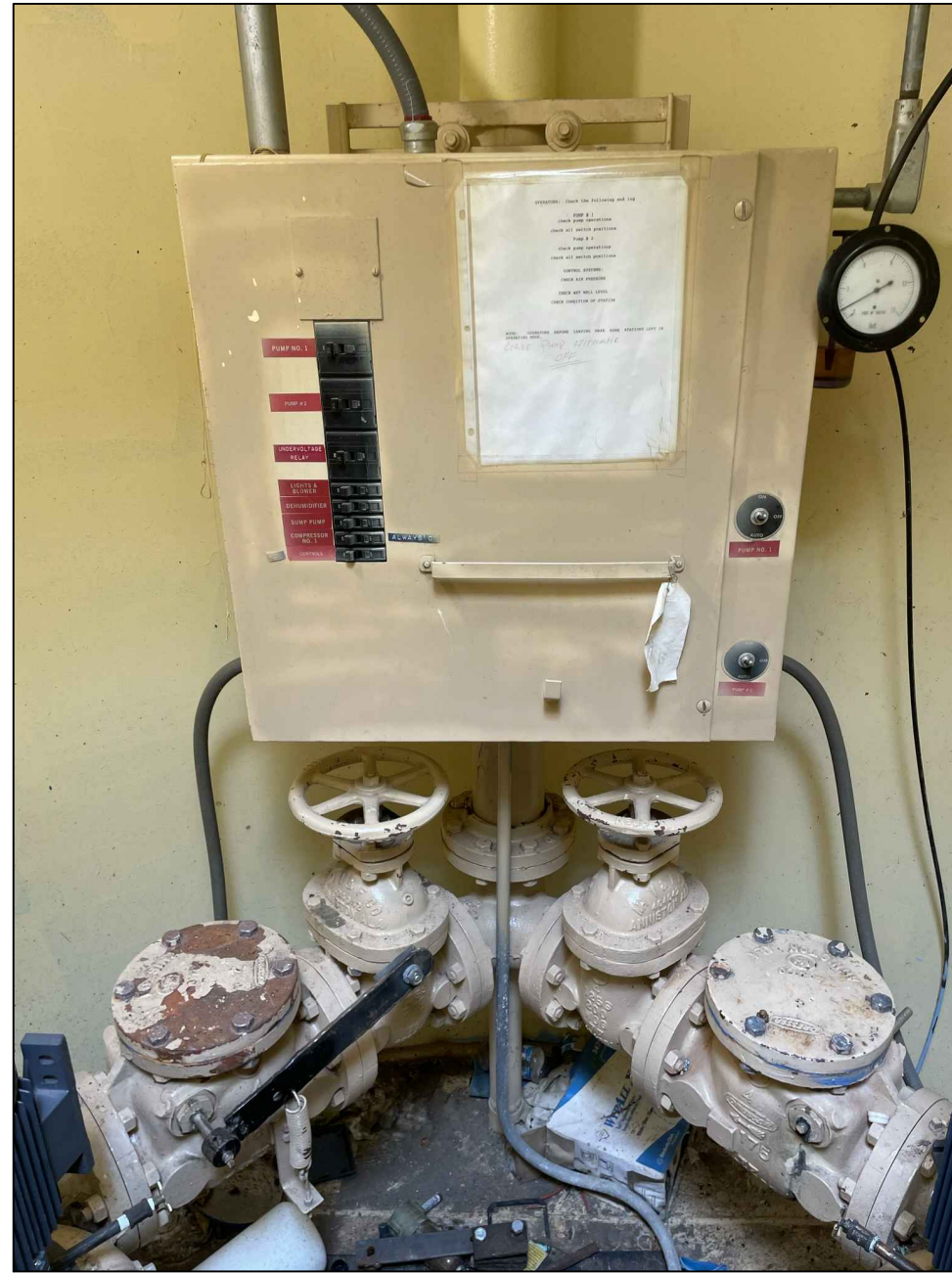
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4

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TOP VIEW



DISCHARGE PIPE

- KEYED NOTES
1. 3" FL SIDE OUTLET 90° BEND(OWNER FURNISHED)
 2. 3" FL x PE DIP SPOOL
 3. 3" MEGA FLANGE(OWNER FURNISHED)
 4. 3" FL x FL PLUG VALVE(OWNER FURNISHED)
 5. 3" FL x FL CHECK VALVE(OWNER FURNISHED)
 6. 3" FL x FL 45° BEND
 7. NEW PUMP(OWNER FURNISHED)
 8. 4" FL x FL PLUG VALVE(OWNER FURNISHED)
 9. 4" MEGA FLANGE(OWNER FURNISHED)
 10. 4" x 3" FL x FL REDUCER
 11. 4" FL x PE DIP SPOOL
 12. 4" MJ SOLID SLEEVE W/MEGALUGS
 13. PUMP STAND/ ADJUSTABLE HEIGHT/ WELDED TO FLOOR
 14. PIPE SUPPORT
 15. REWELD EXISTING LID HINGE TO USABLE STATE

- GENERAL NOTES
1. ALL FLANGES ANSI 125 OR ANSI 150
 2. ALL FITTINGS AWWA C110 DUCTILE IRON
 3. ALL PIPE AND FITTINGS SHALL BE FIELD COATED
 4. LIFT STATION INTERIOR SHALL BE THOROUGHLY CLEANED AND FLOOR PRESSURE WASHED.
 5. FLOOR SHALL BE REPAINTED WITH NON-SKID EPOXY PAINT: PRIMER AND TWO COATS OF EPOXY PAINT. MATCH EXISTING COLOR
 6. ALL PENETRATIONS WHICH REMAIN UNUSED SHALL BE CUT AND PLUGGED NEATLY FLUSH WITH THE DRY WELL WALL. PLUG CONDUITS/PIPES WITH SILICON AND PLACE A 0.5 IN THICK HARD SET EPOXY CAP FLUSH WITH WALL
 7. ALL AREAS WHERE COATING IS REMOVED OR SCUFFED AS A PART OF THE DEMOLITION SHALL BE REPAINTED. MATCH EXISTING COLOR
 8. REMOVE AND DISPOSE OF ALL PIPING, FITTINGS, PUMPS, VALVES, CONTROL PANEL AND ELECTRICAL CONDUIT/WIRE BEING REPLACED
 9. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW PUMPS WITH DPU GWS OPERATIONS, WHO WILL SUPPORT WITH VACTOR WHILE PUMPS ARE DISABLED

LOS ARBOLES
LIFT STATION IMPROVEMENTS
MECHANICAL IMPROVEMENTS



LOS ALAMOS

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Concortor N80-2750

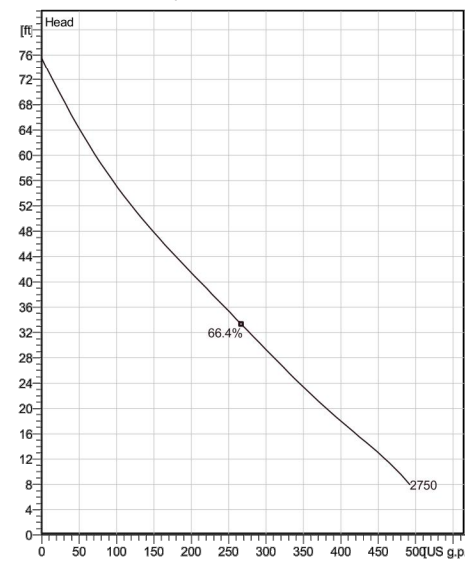
The most intelligent wastewater pump on the market. Suitable for customers operating traditional on/off pump stations who want to benefit from re-settable pump performance, clog detection and pump cleaning, soft start, constant power and motor protection.



Technical specification



Curves according to: Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft³/s



Normal (green) data shown. Under and over performance from this data should be expected due to standard manufacturing tolerances. Please consult your local Flt representative for performance guarantees.

Configuration

Motor number
N6020.181.18-08-1A2-D
5.5hp

Installation type
T-Vertical Permanent, Dry

Impeller diameter
270 mm

Discharge diameter
3 inch

Pump information

Impeller diameter
270 mm

Materials

Impeller
Hard-iron™

Discharge diameter
3 inch

Inlet diameter
110 mm

Maximum operating speed
800-2600 rpm

Number of blades
2

Max. fluid temperature
40 °C

Project	Xylect-20957451	Created by	
Block		Created on	8/4/2023
		Last update	8/4/2023

Program version
800 - 61500021 (2016.02)

Date revision
00000003 (03.04.2023)

User group(s)
Xylem US - 007

Concortor N80-2750

Technical specification



Motor - General

Motor number N6020.181.18-08-1A2-D 5.5hp	Phases 3~	Rated speed 800-2600 rpm	Rated power 5.5 hp
ATEX approved No	Insulation class H	Rated current 12.1 A	Type of Duty S1
Frequency 60 Hz	Rated voltage 230 V	Motor efficiency class IE4 according to IEC/TS 60034-30-2 Ed. 1	

Motor - Technical

Power factor - 1/2 Load 0.95	Motor efficiency - 1/2 Load 88.0 %	Nominal speed - 1/2 Load 1150 rpm
Power factor - 3/4 Load 0.95	Motor efficiency - 3/4 Load 89.0 %	Nominal speed - 3/4 Load 1035 rpm
Power factor - 1/2 Load 0.95	Motor efficiency - 1/2 Load 89.0 %	Nominal speed - 1/2 Load 920 rpm

Starting current
12.1 A

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Date revision
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Concortor N80-2750

Monitoring and Control equipment



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User group(s)
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Concortor N80-2750

Performance curve

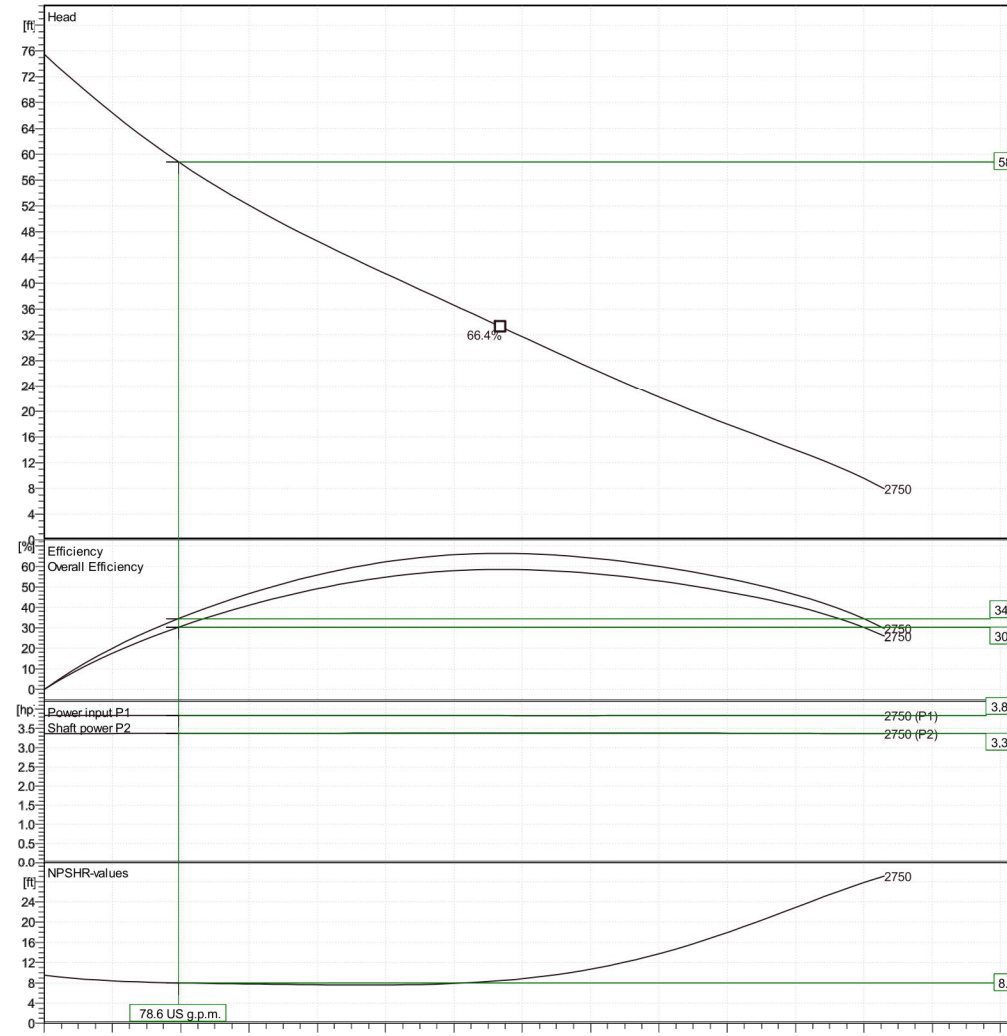


Duty point

Flow
78.6 US g.p.m.

Head
58.8 ft

Curves according to: Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft³/s



Normal (green) data shown. Under and over performance from this data should be expected due to standard manufacturing tolerances. Please consult your local Flt representative for performance guarantees.

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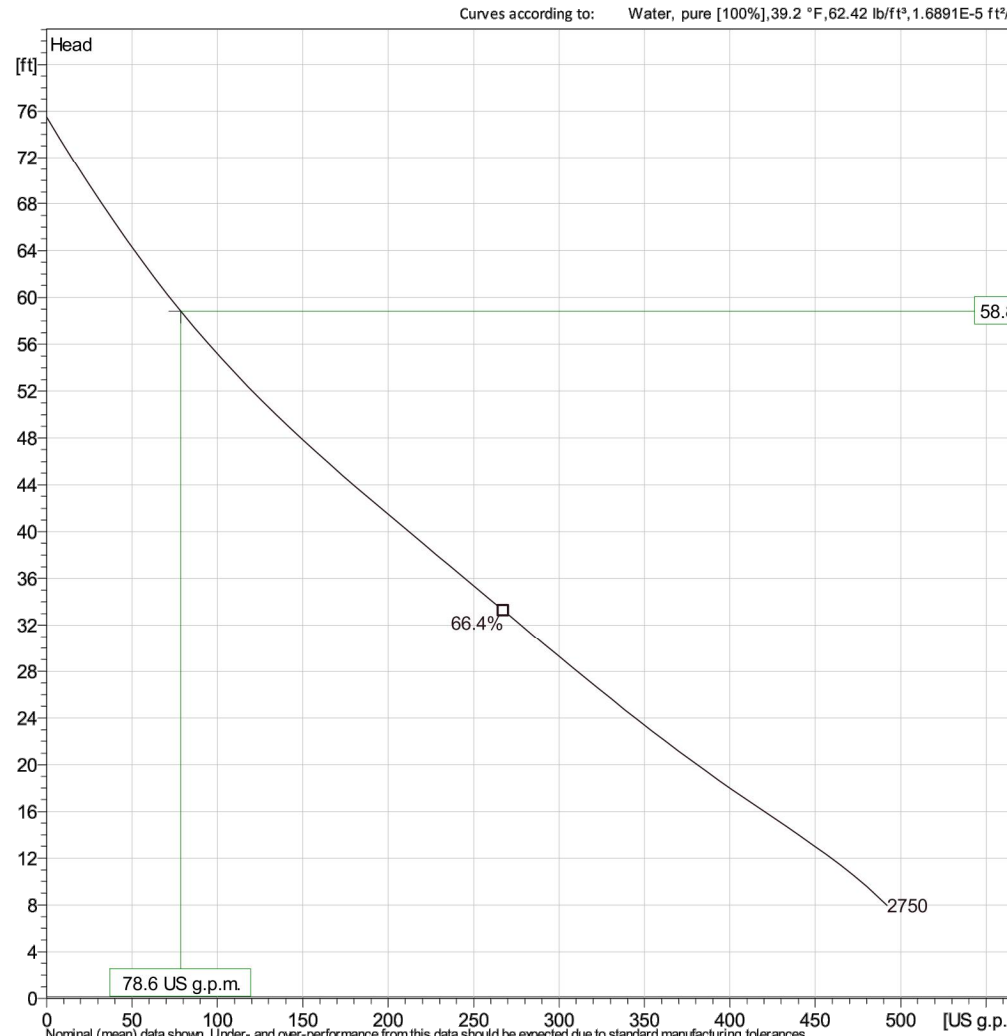
User group(s)
Xylem US - 007

Concortor N80-2750

Duty Analysis



Curves according to: Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft³/s



Operating characteristics

Power Systems	Flow US g.p.m.	Head ft	Shaft power hp	Flow US g.p.m.	Head ft	Shaft power hp	Hyd. eff.	Specific energy kWh/US MG	NPSH-R ft
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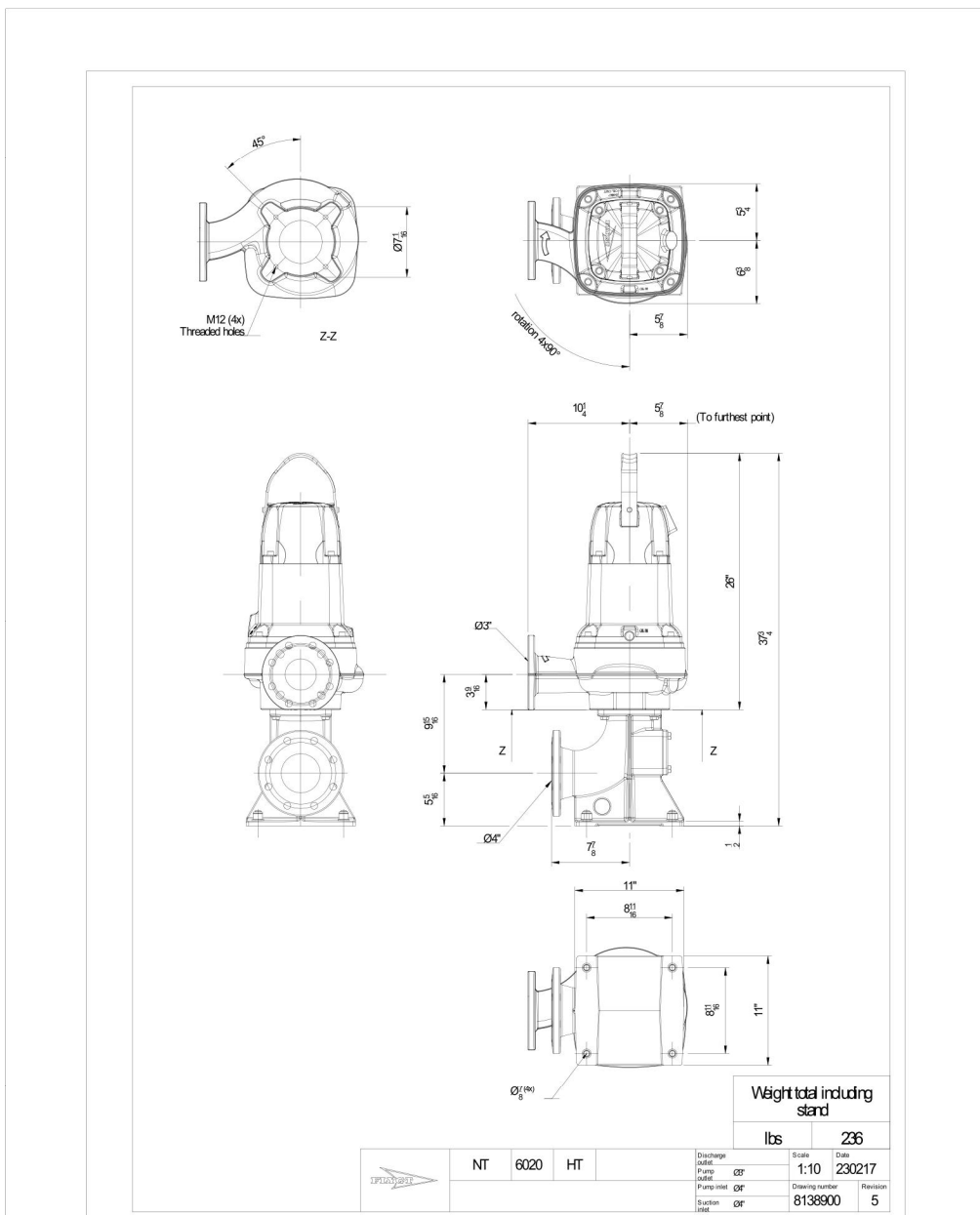
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Date revision
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User group(s)
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Concortor N80-2750

Dimensional drawing



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Date revision
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User group(s)
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LOS ARBOLES
LIFT STATION IMPROVEMENTS

PUMP SPECIFICATIONS



LOS ALAMOS

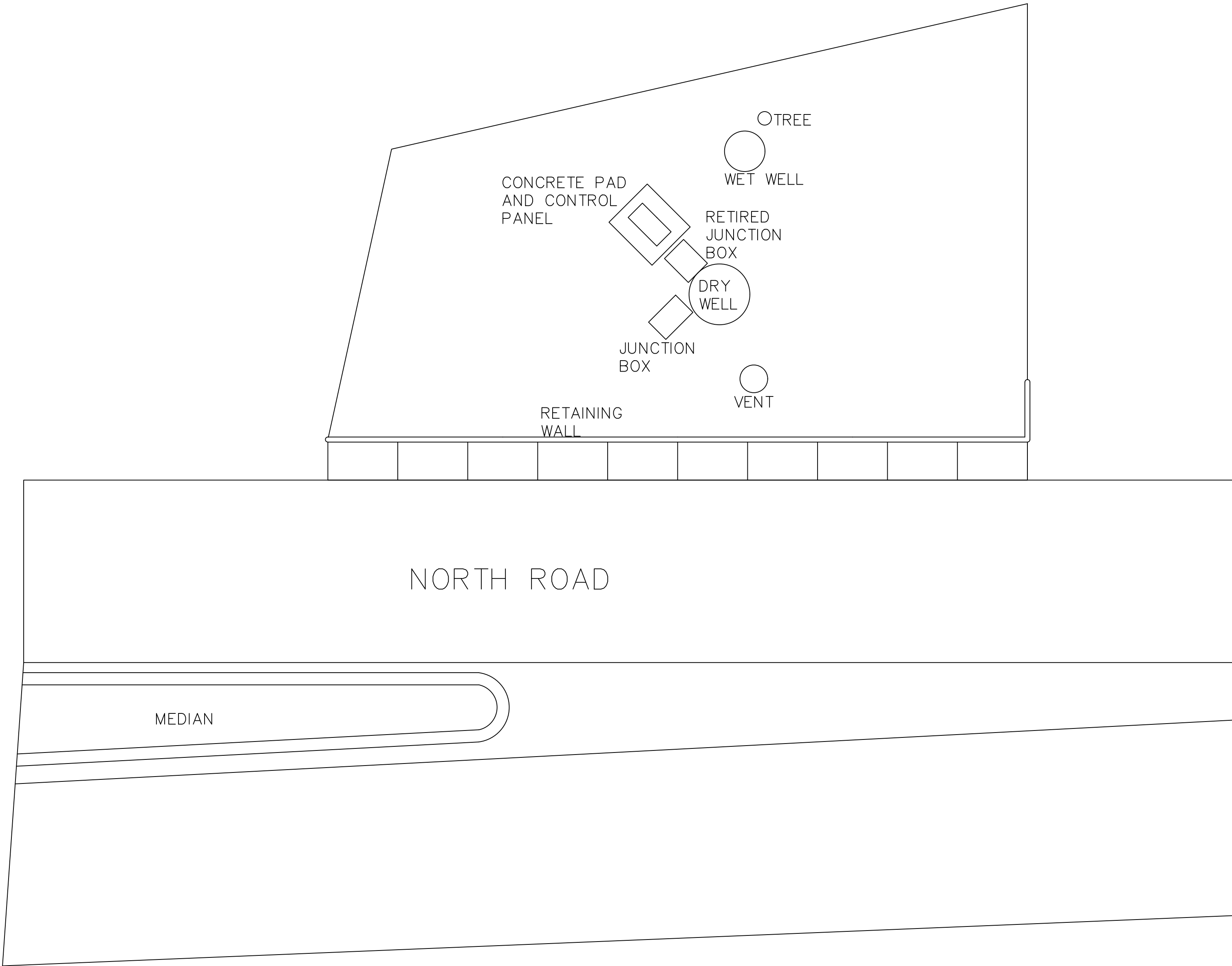
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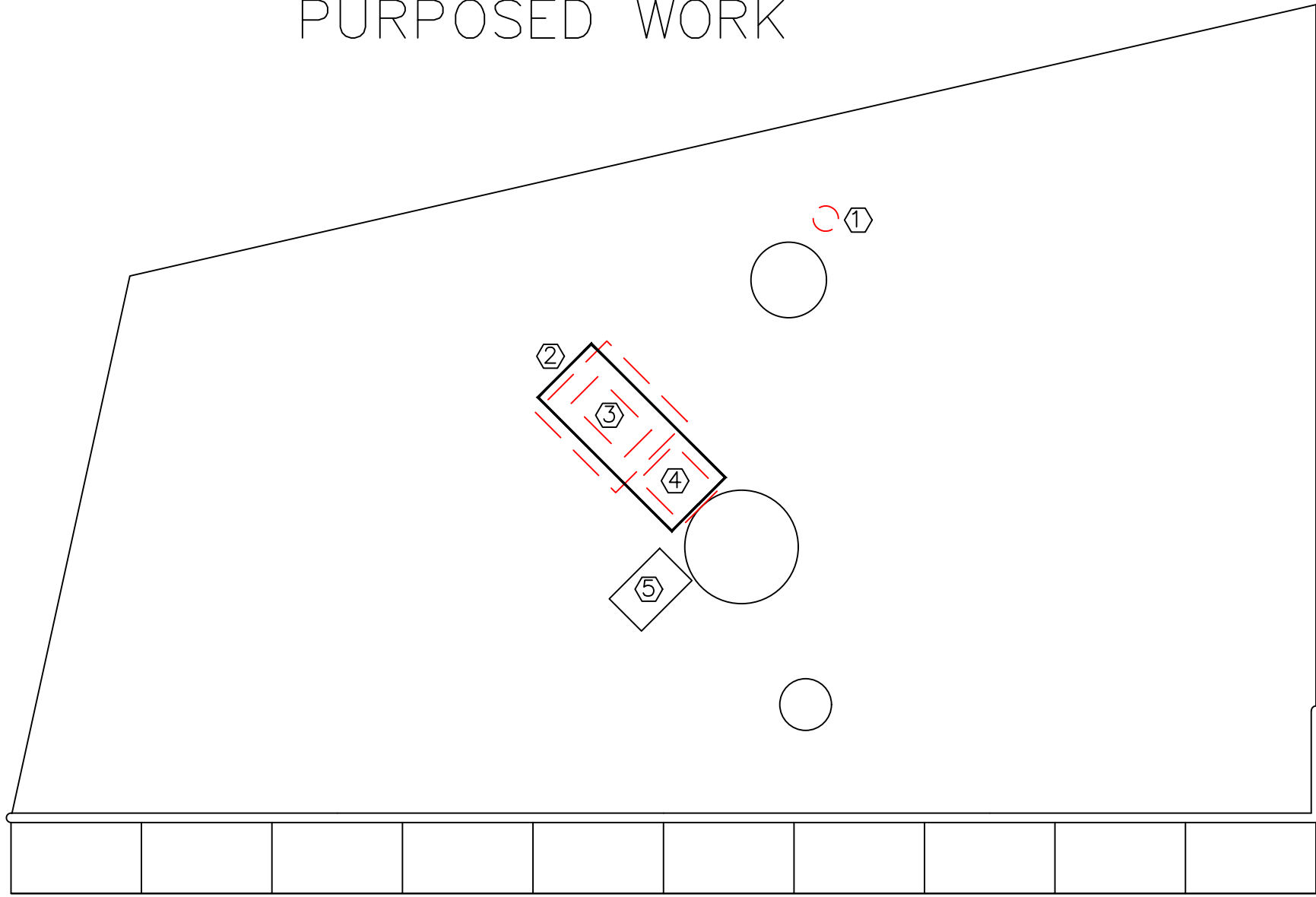
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EXISTING CONDITIONS



PURPOSED WORK



- GENERAL NOTES**
1. RETURN LANDSCAPING TO EXISTING CONDITIONS OR BETTER
 2. LAC LINEMEN TO INSTALL TRANSFORMER AND REMOVAL OF EXISTING TRANSFORMER, CONTRACTOR TO COORDINATE WITH LINEMEN FOR ALL ELECTRICAL INSTALLATIONS
 3. DURING SEWAGE OUTAGE, CONTRACTOR MUST MANUALLY BY-PASS FORCE MAIN WITH PUMP FROM WET WELL
- KEYED NOTES**
- ① REMOVE EXISTING TREE FROM THE ROOTS HYDRO EXCAVATION OR HAND DIGGING IS REQUIRED.
 - ② INSTALL 5'X2' CONCRETE PAD WITH CONTROL PANEL AS PER SHEET 3, ROUTE NEW CONDUIT INTO PAD
 - ③ REMOVE EXISTING CONCRETE PAD AND CONTROL PANEL
 - ④ REMOVE EXISTING DEFUNCT JUNCTION BOX; REFINISH DRY WELL WALL FROM WELDING MARKS
 - ⑤ RUN NEW POWER LINE TO EXIST LIVE JUNCTION BOX

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LOS ARBOLES

LIFT STATION IMPROVEMENTS

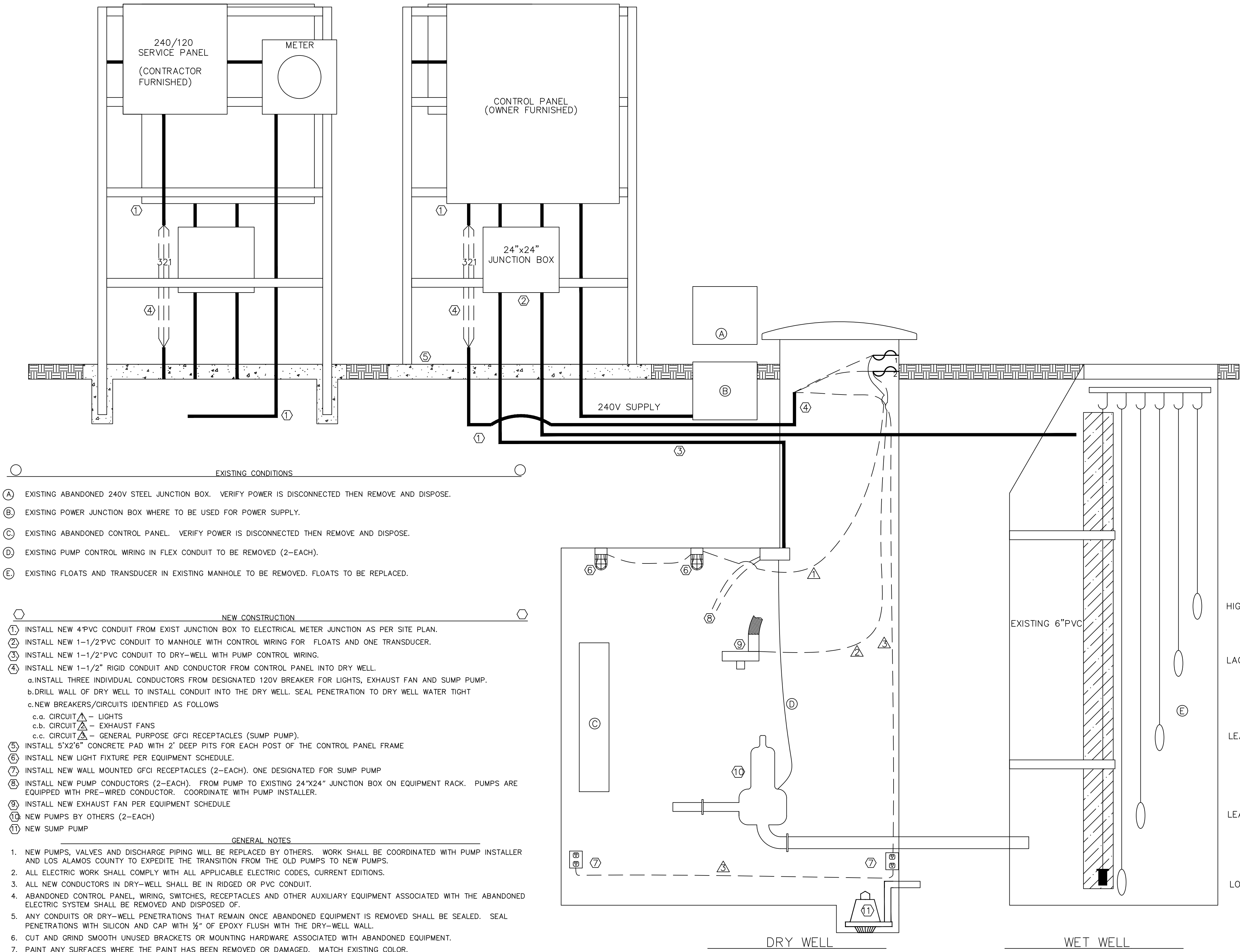
SITE PLAN



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EXISTING ELECTRICAL/CONTROLS



EQUIPMENT SCHEDULE			
ITEM	MAKE	MODEL	GRAINGER CATALOG #
SUMP PUMP	GOULDS	110VAC/35 GPM @ 10'TDH	462D15
LED LIGHT FIXTURE	LITHONIA LIGHTING	OLVTCM	26X701
EXHAUST FAN	FANTECH	FG 4XL	15W687
FLEXIBLE DUCT	WESTAFLEX	2505 (15 FEET)	3C591

— EXISTING CONDUIT
- - - NEW CIRCUIT
— EXISTING CONDUCTORS

LEGEND

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LOS ARBOLES
LIFT STATION IMPROVEMENTS

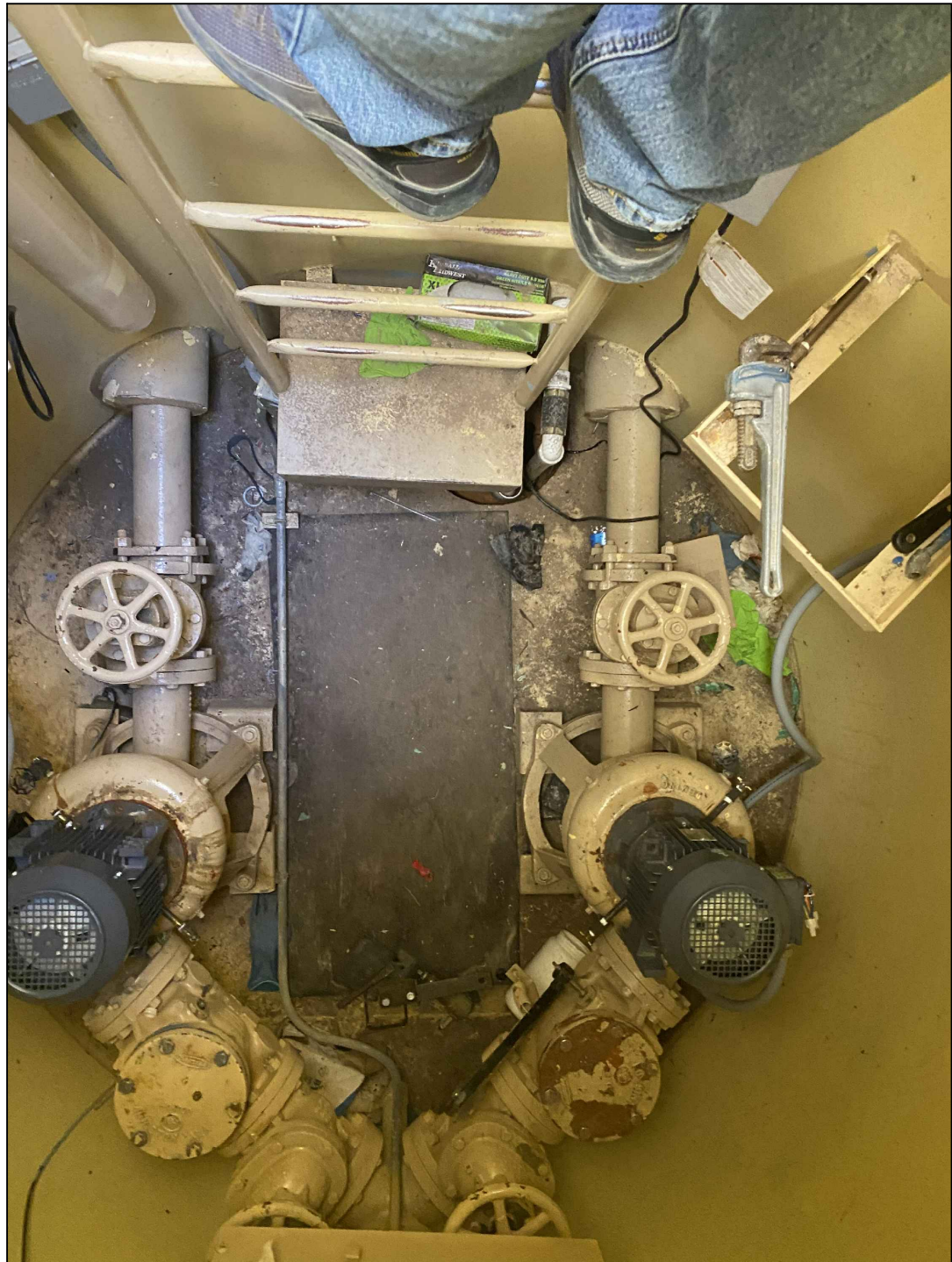
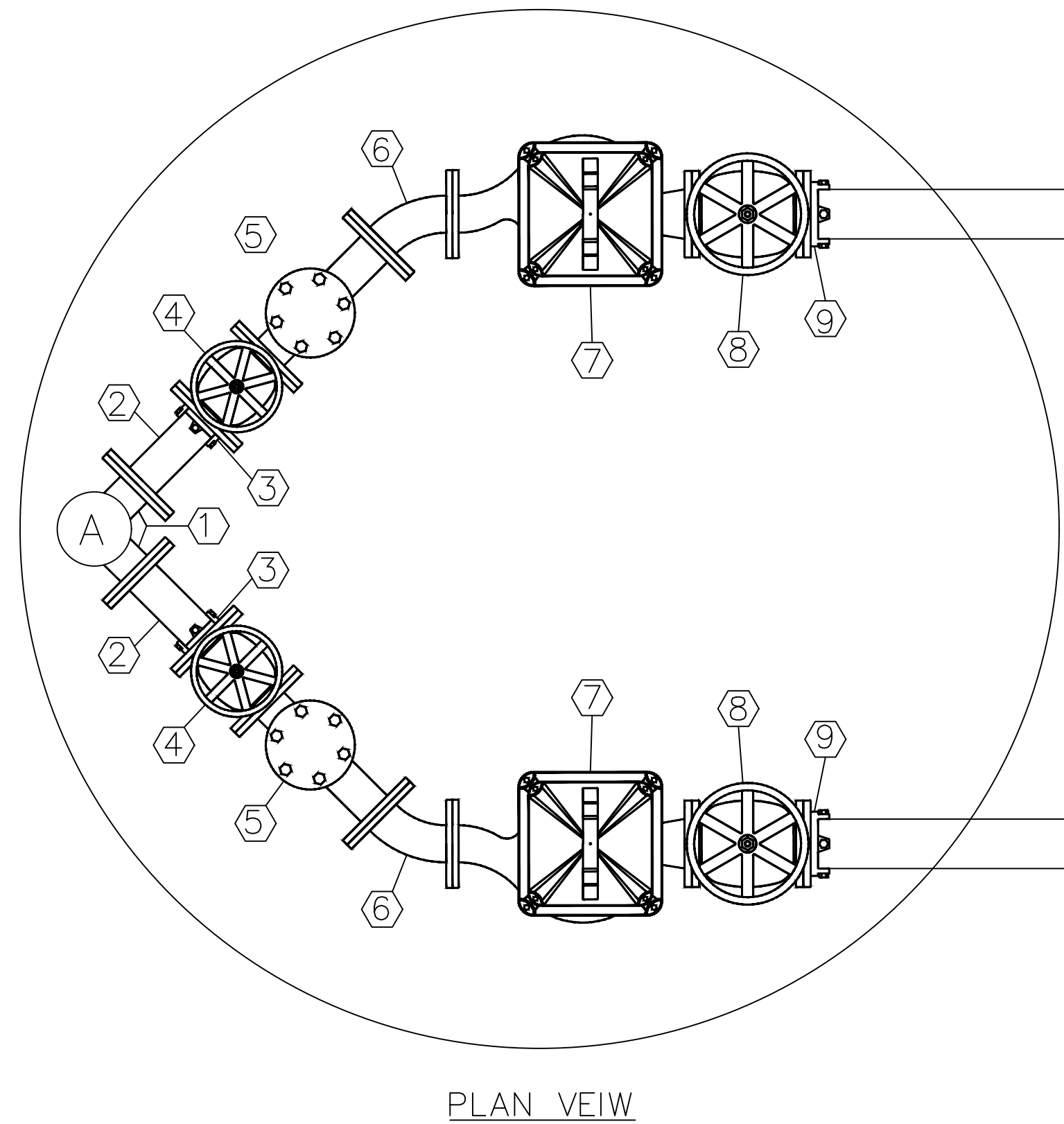
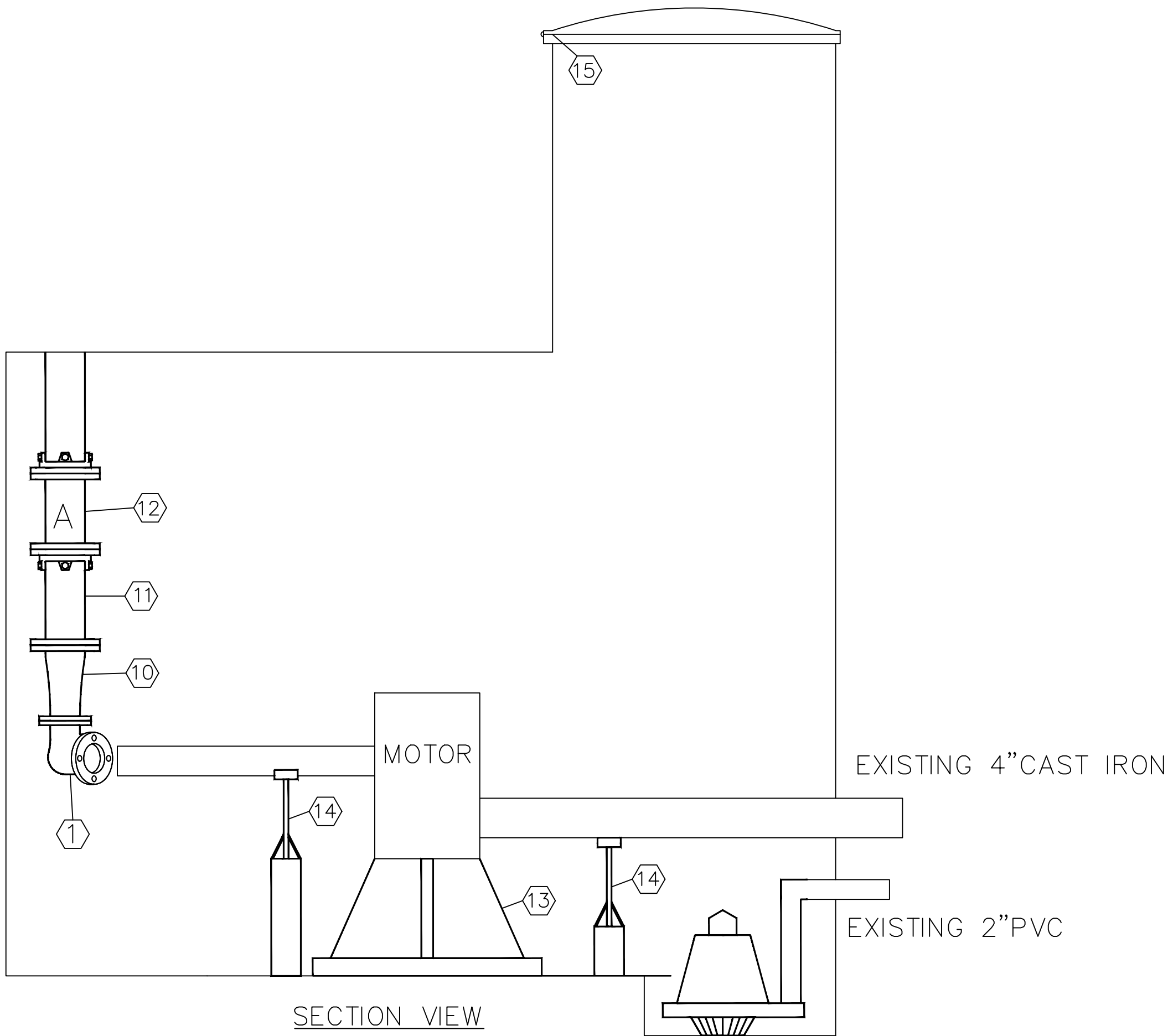
ELECTRICAL IMPROVEMENTS


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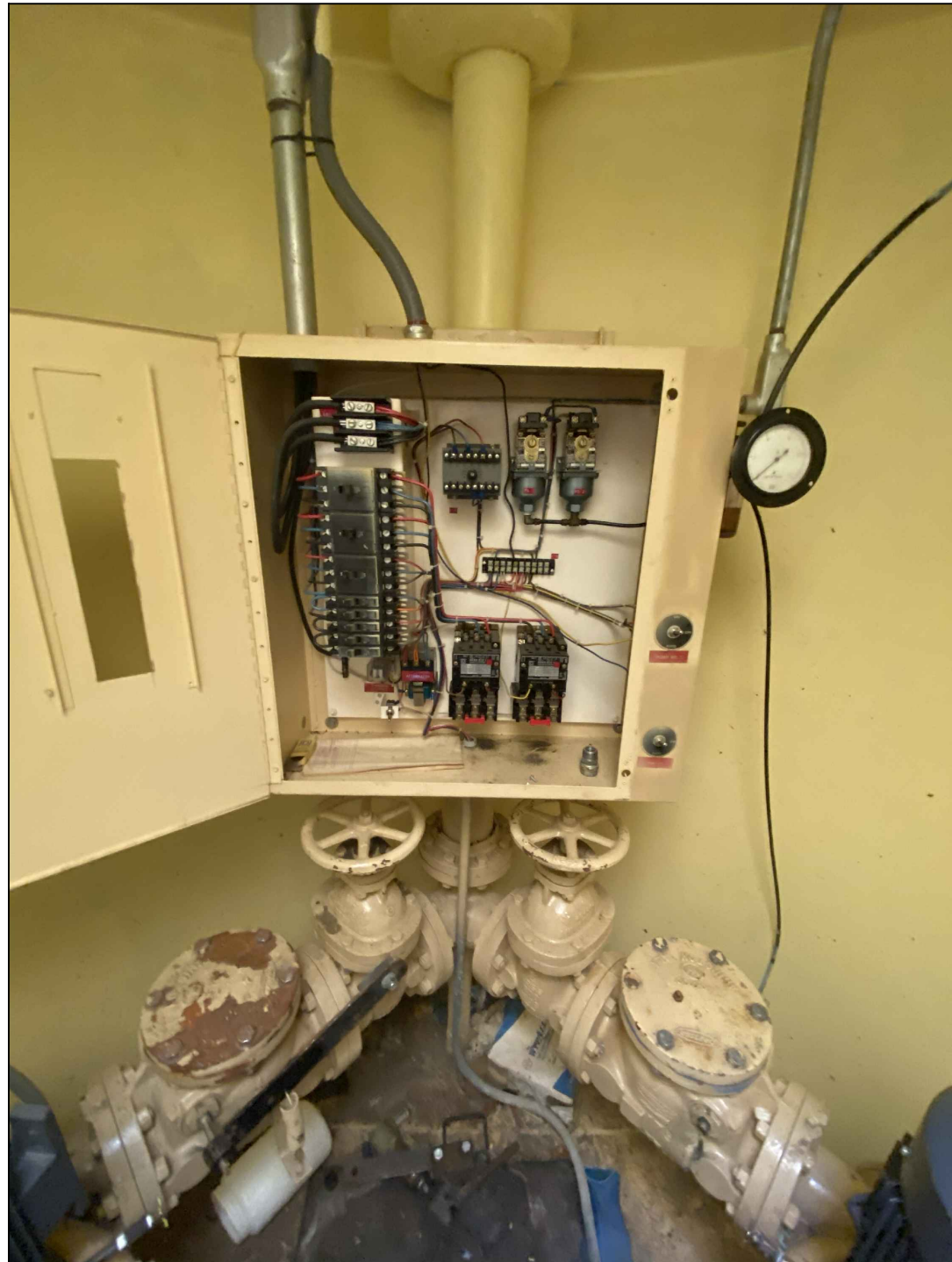
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TOP VIEW



DISCHARGE PIPE

- KEYED NOTES
1. 3" FL SIDE OUTLET 90° BEND(OWNER FURNISHED)
 2. 3" FL x PE DIP SPOOL
 3. 3" MEGA FLANGE(OWNER FURNISHED)
 4. 3" FL x FL PLUG VALVE(OWNER FURNISHED)
 5. 3" FL x FL CHECK VALVE(OWNER FURNISHED)
 6. 3" FL x FL 45° BEND
 7. NEW PUMP(OWNER FURNISHED)
 8. 4" FL x FL PLUG VALVE(OWNER FURNISHED)
 9. 4" MEGA FLANGE(OWNER FURNISHED)
 10. 4" x 3" FL x FL REDUCER
 11. 4" FL x PE DIP SPOOL
 12. 4" MJ SOLID SLEEVE W/MEGALUGS
 13. PUMP STAND/ ADJUSTABLE HEIGHT/ WELDED TO FLOOR
 14. PIPE SUPPORT
 15. REWELD EXISTING LID HINGE TO USABLE STATE

- GENERAL NOTES
1. ALL FLANGES ANSI 125 OR ANSI 150
 2. ALL FITTINGS AWWA C110 DUCTILE IRON
 3. ALL PIPE AND FITTINGS SHALL BE FIELD COATED
 4. LIFT STATION INTERIOR SHALL BE THOROUGHLY CLEANED AND FLOOR PRESSURE WASHED.
 5. FLOOR SHALL BE REPAINTED WITH NON-SKID EPOXY PAINT: PRIMER AND TWO COATS OF EPOXY PAINT. MATCH EXISTING COLOR
 6. ALL PENETRATIONS WHICH REMAIN UNUSED SHALL BE CUT AND PLUGGED NEATLY FLUSH WITH THE DRY WELL WALL. PLUG CONDUITS/PIPES WITH SILICON AND PLACE A 0.5 IN THICK HARD SET EPOXY CAP FLUSH WITH WALL
 7. ALL AREAS WHERE COATING IS REMOVED OR SCUFFED AS A PART OF THE DEMOLITION SHALL BE REPAINTED. MATCH EXISTING COLOR
 8. REMOVE AND DISPOSE OF ALL PIPING, FITTINGS, PUMPS, VALVES, CONTROL PANEL AND ELECTRICAL CONDUIT/WIRE BEING REPLACED
 9. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW PUMPS WITH DPU GWS OPERATIONS, WHO WILL SUPPORT WITH VACTOR WHILE PUMPS ARE DISABLED

LOS ARBOLES
LIFT STATION IMPROVEMENTS
MECHANICAL IMPROVEMENTS



LOS ALAMOS

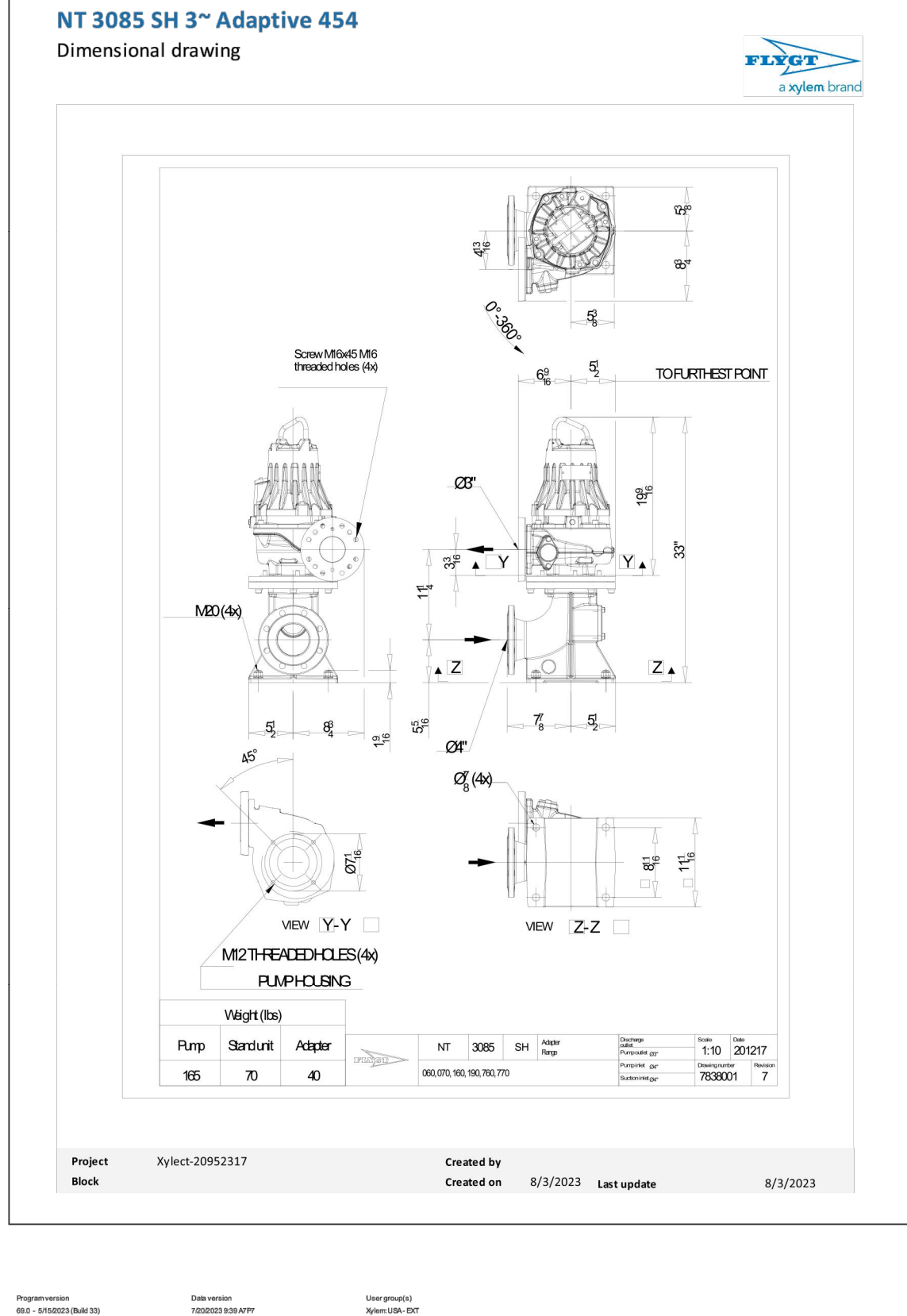
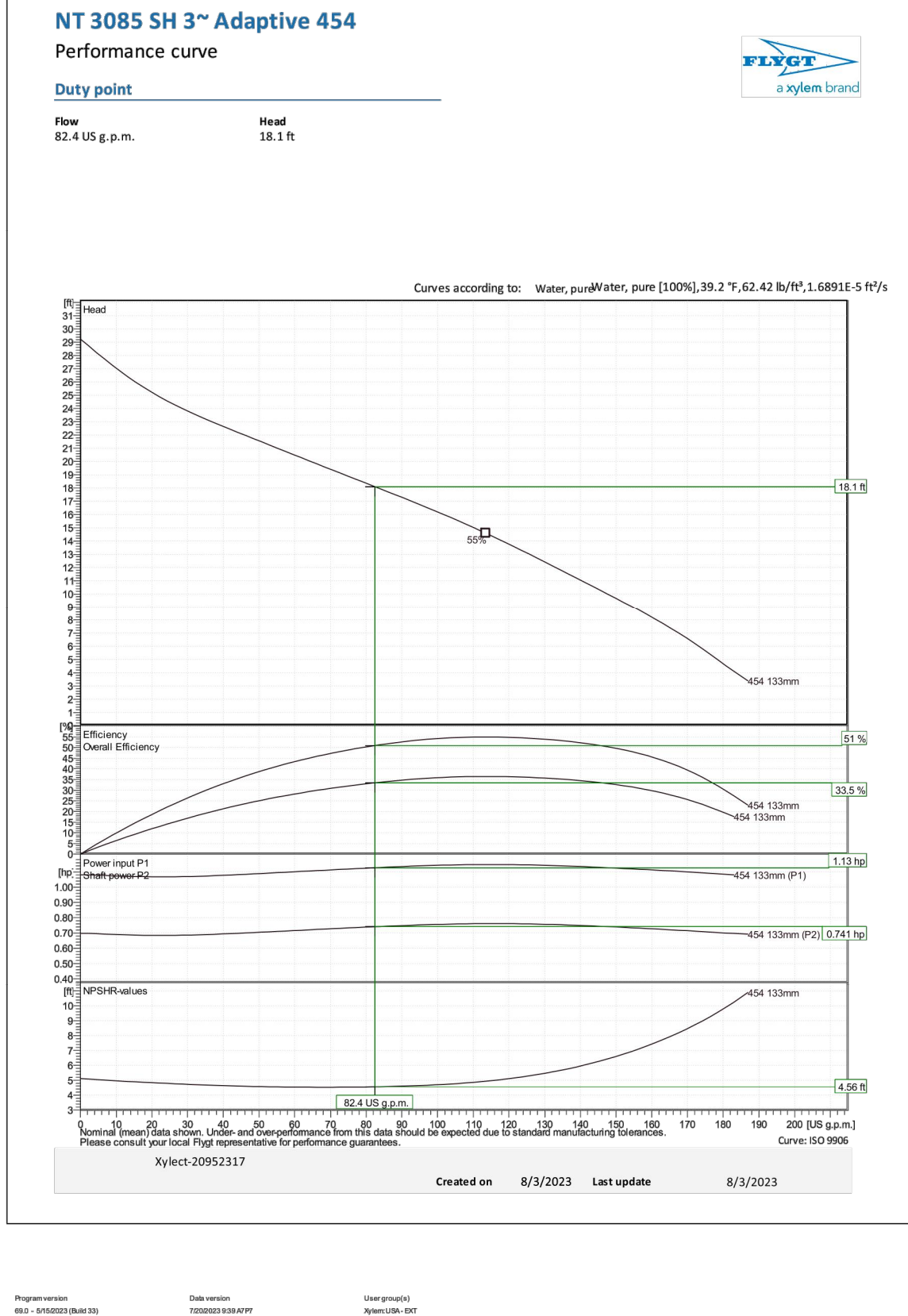
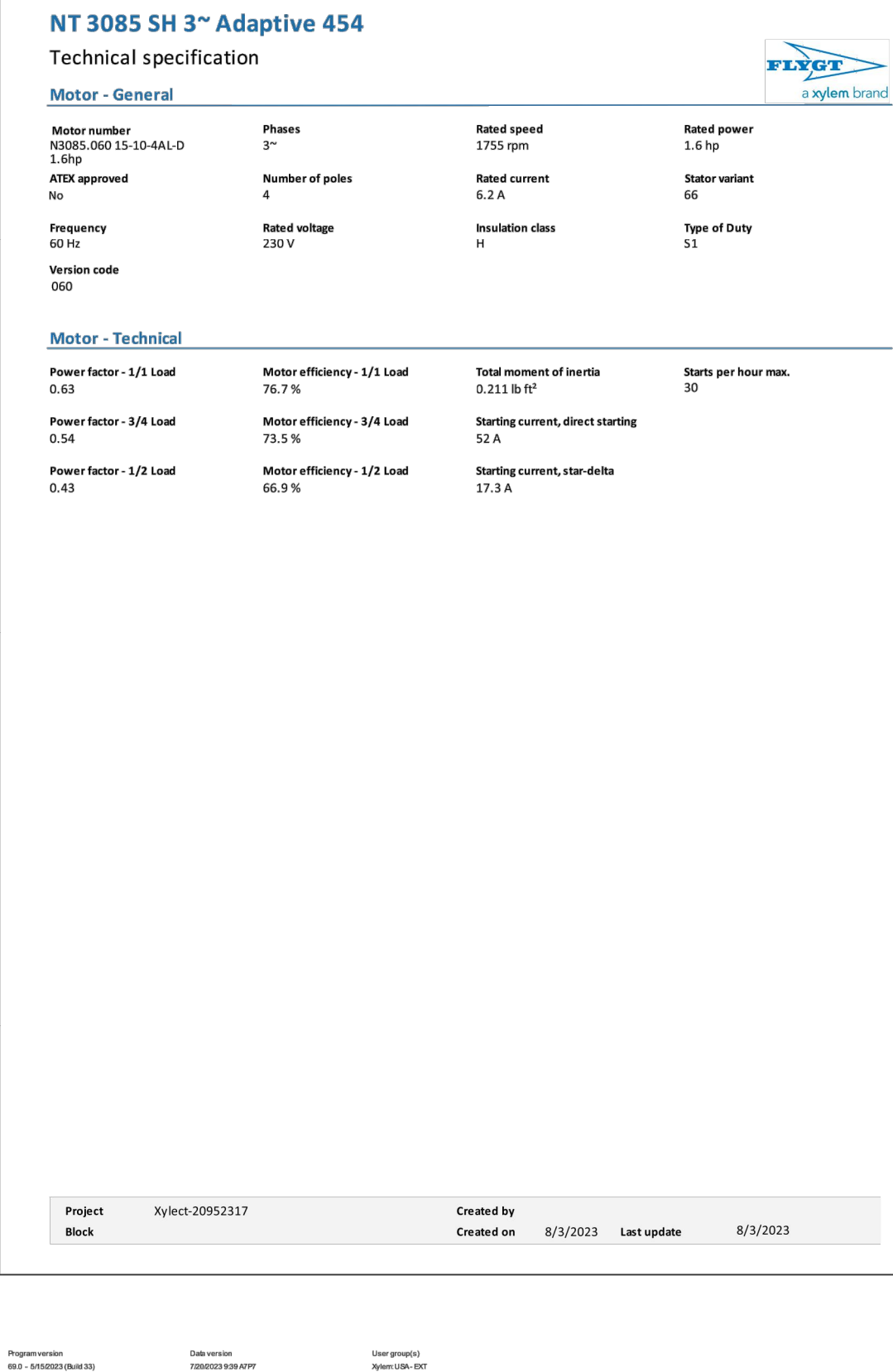
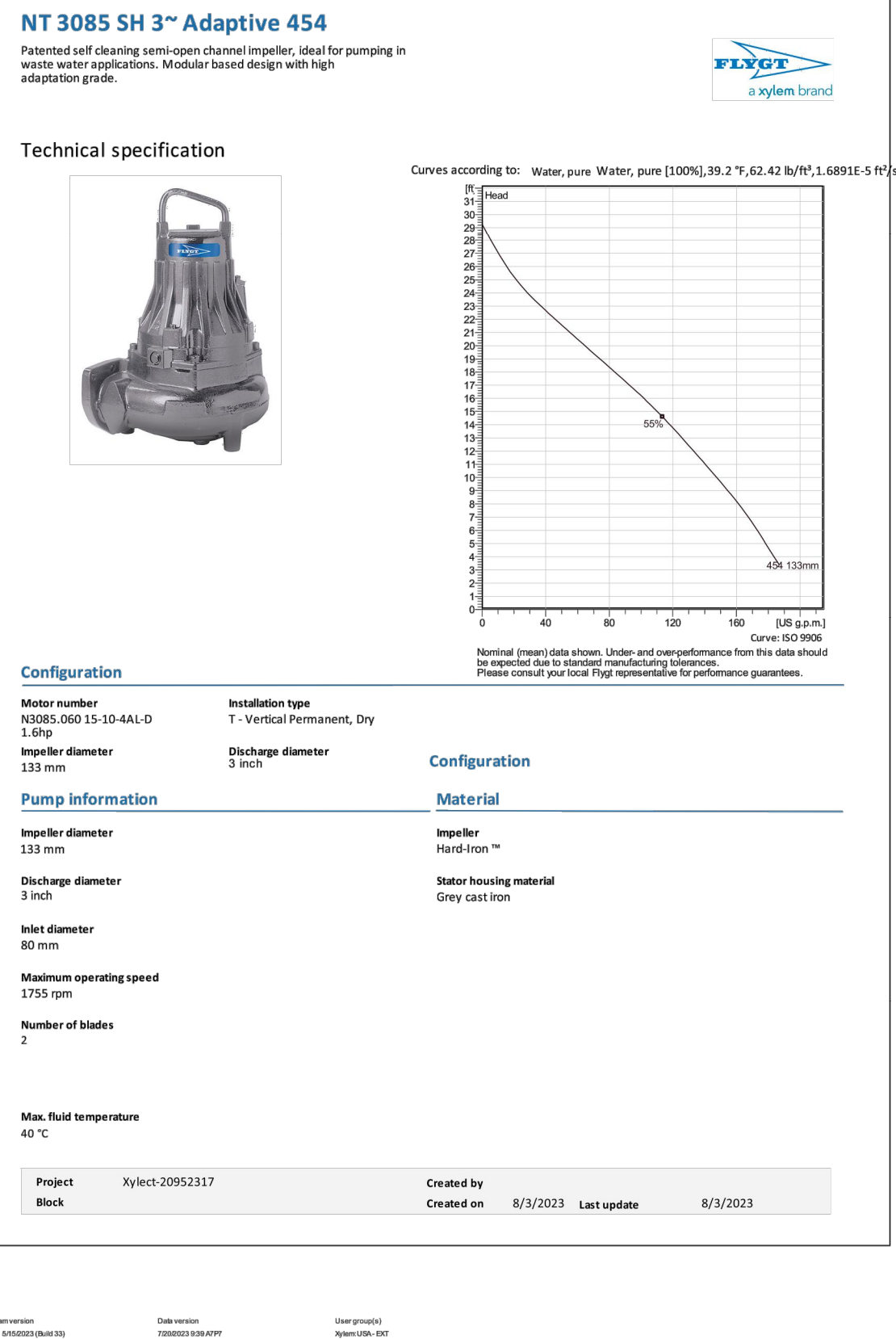
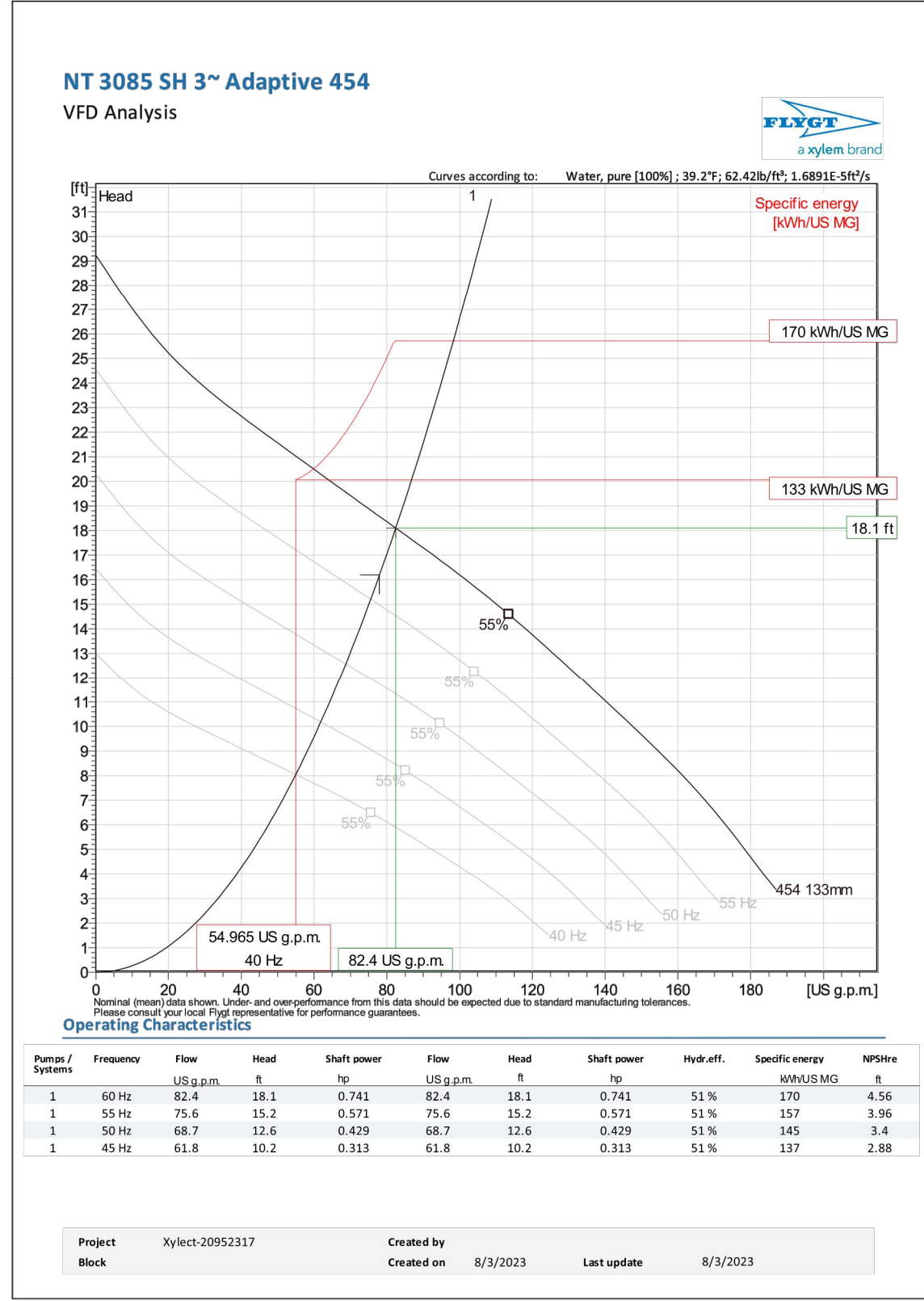
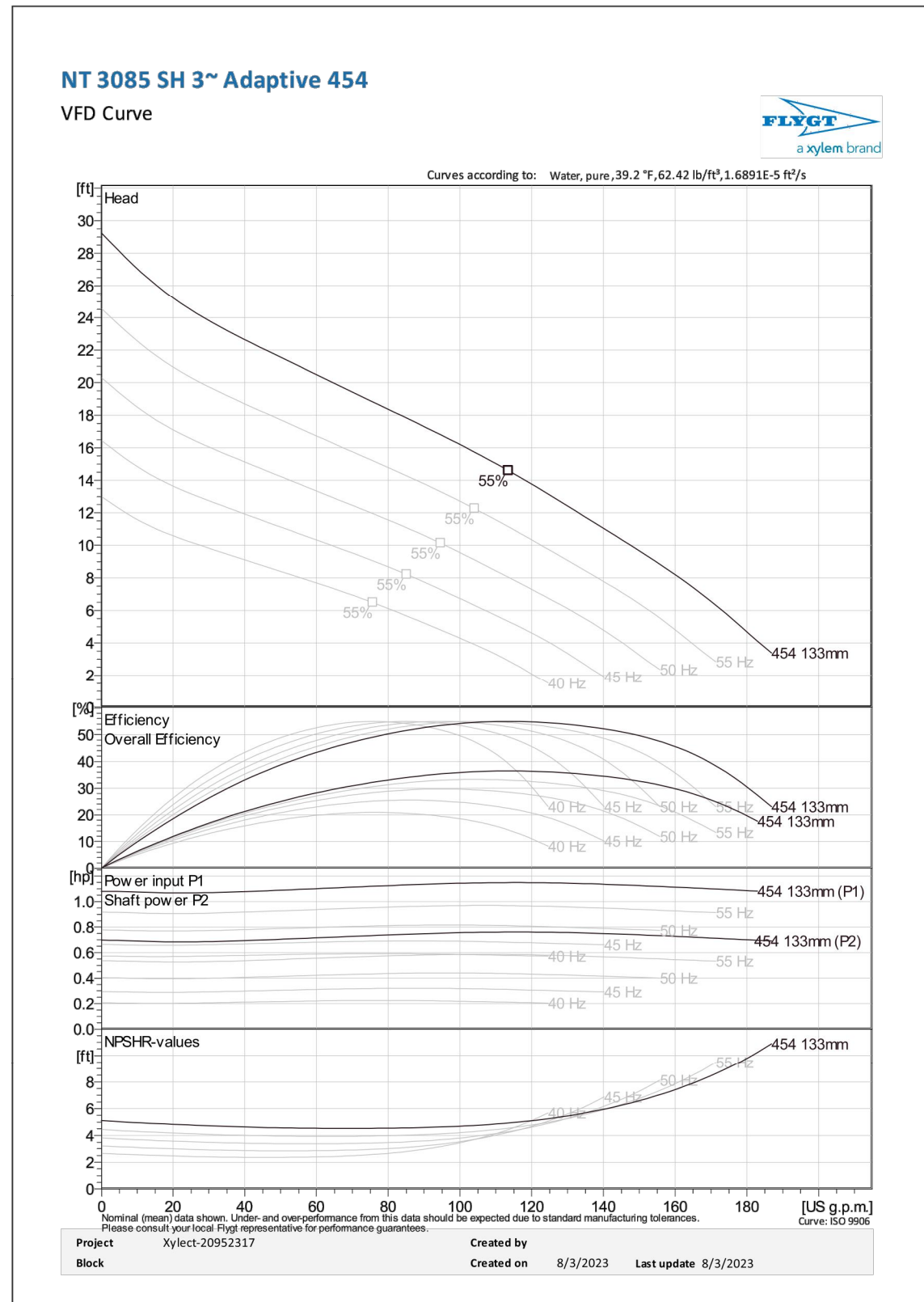
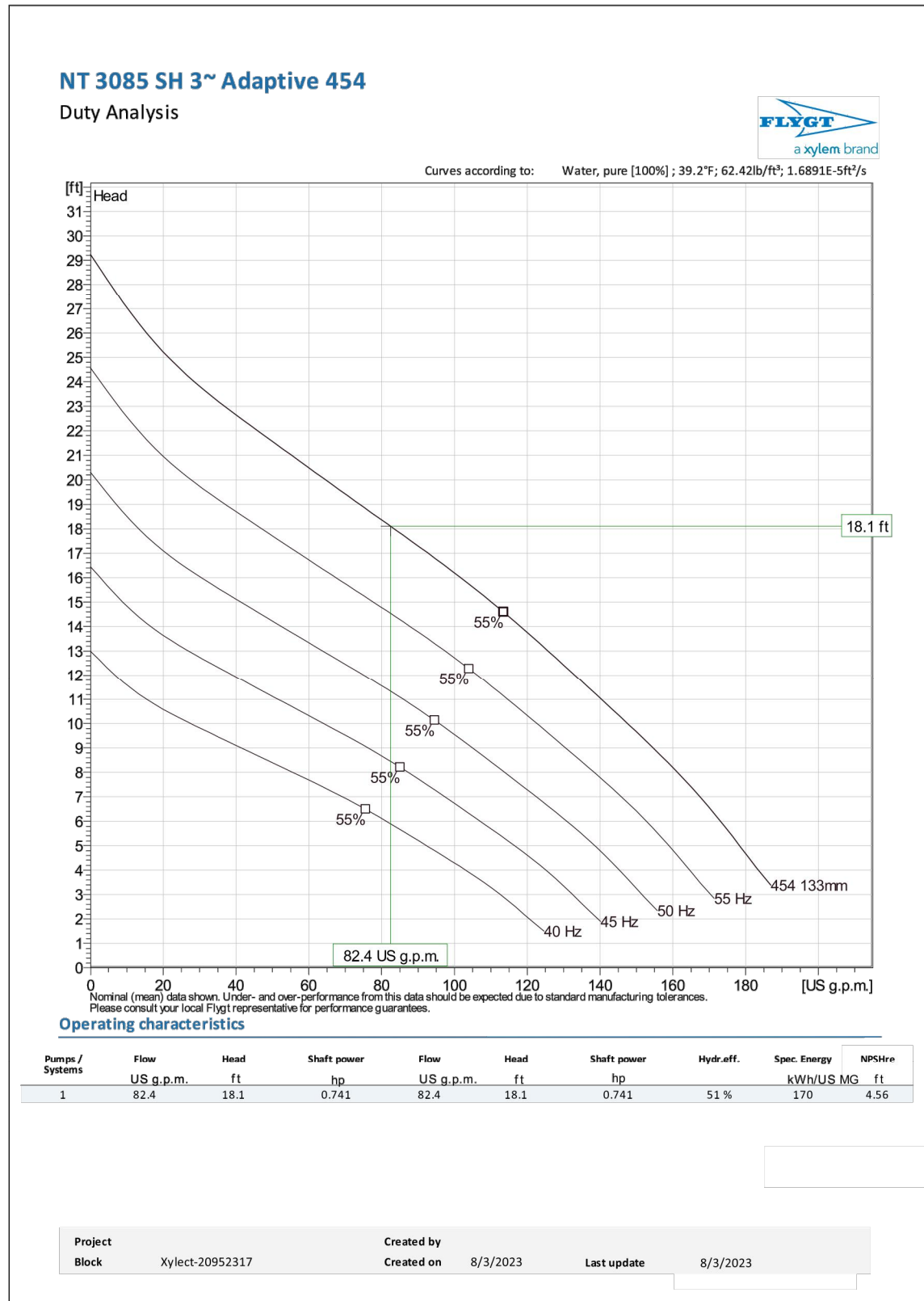
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DEPARTMENT OF PUBLIC
UTILITIES
1000 CENTRAL AVE., SUITE 130
LOS ALAMOS, NEW MEXICO 87544
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DATE:	
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LOS ARBOLES LIFT STATION IMPROVEMENTS	PUMP INFORMATION
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LOS ALAMOS
Department of Public Utilities
Electric, Gas, Water, and Wastewater Services

UTILITY CONSTRUCTION STANDARDS – ELECTRIC
75–1500 KVA 3 PHASE
TRANSFORMER CONCRETE PAD

SECTION
4000
4028

No.
DATE:
REVISION:
APPROVED BY:
DATE: APRIL 2018

#4 REBAR 6" OC

COMPACTED BASE COURSE INSIDE PAD AND AROUND CONDUITS

5/8" X 8'-0" GROUND ROD

12"

1" CHAMFER

PRIMARY CONDUIT

SECONDARY CONDUIT

COMPACTED SUBGRADE TO 95%

PAD	TRANSFORMER SIZE (KVA)	DIMENSIONS	
		A	B
#1	75, 150, 300, 500	84	66
#2	750, 1000, 1500	96	72

NOTES

(1) NO CONCRETE IN TROUGH AREA.

(2) BRING CONDUITS UP FLUSH WITH PAD.

(3) GUARD POSTS ARE REQUIRED IN TRAFFIC AREAS.

(4) CONCRETE PAD SHALL BE POURED WITH 3000 PSI CONCRETE; LEVEL WITHIN +/- 1/4in IN 5ft AND TROWEL FINISHED TO PROVIDE A TRUE PLANE WITHIN 1/16th IN 5ft AS DETERMINED BY A 5ft STRAIGHT EDGE.

NO PREFABRICATED PADS WILL BE ACCEPTED.

(5) EXISTING GRADE AND 12" BASECOURSE LAYER UNDER CONCRETE PAD SHALL BE COMPACTED TO 95%.

(6) PRIMARY SIDE CONDUIT SHALL BE 6" RIGID UNLESS NOTED OTHERWISE (UND).

SECONDARY CONDUITS SHALL BE 4".

(7) MINIMUM 22" X 14" TO BE MAINTAINED FOR SECONDARY DUCT AREA TO ALLOW UP TO 8-4" DUCTS.

(8) CUSTOMER SHALL INSTALL POLYETHYLENE PULL STRINGS WITH MINIMUM BREAKING STRENGTH OF 210LBS.

CONTACT ELECTRICAL ENGINEERING DEPARTMENT FOR CONDUIT AND TRANSFORMER ORIENTATION.

LOS ALAMOS
Department of Public Utilities
Electric, Gas, Water, and Wastewater Services

UTILITY CONSTRUCTION STANDARDS – ELECTRIC
ELECTRIC PRIMARY AND SECONDARY
COMMON TRENCH DETAIL

SECTION
4000
4023

No.
DATE:
REVISION:
APPROVED BY:
DATE: FEBRUARY 2022

FINISHED GRADE

24" MIN. SECONDARY ELECTRIC

40" MIN. PRIMARY ELECTRIC (NOTE 6)

ELECTRIC WARNING TAPE (RED)

12"

COMPACTED BEDDING

PVC SECONDARY CONDUITS (NOTE 4)

12" MIN.

PVC ELECTRIC CONDUITS (NOTE 4)

NOTE 5

4" COMPACTED BEDDING BELOW CONDUIT

3"

3"

3"

D	CONDUCTOR TYPE	DEPTH (TOP PIPE)
2"	120/240 VOLT SERVICE 100/150A	24"
2½"	120/240 VOLT SERVICE 200A	24"
* 3" OR 4"	THREE PHASE SECONDARY	24"
2"	SINGLE PHASE PRIMARY	48"
* 4" OR 6"	THREE PHASE PRIMARY	48"

* AS PER LOS ALAMOS COUNTY UTILITIES ENGINEER

NOTES:

1.) 95% COMPACTION REQUIRED UNDER PAVED ROADS, SIDEWALK AND CURB, PER LOS ALAMOS COUNTY UTILITIES CONSTRUCTION STANDARD, SECTION – SPECIFICATION 202 EXCAVATION, TRENCHING AND BACKFILL.

2.) 85% COMPACTION REQUIRED AT ALL LOCATIONS NOT IN NOTE 1, PER LOS ALAMOS COUNTY UTILITIES CONSTRUCTION STANDARD, SECTION – SPECIFICATION 202 EXCAVATION, TRENCHING AND BACKFILL.

3.) CONDUIT PER LOS ALAMOS COUNTY UTILITIES CONSTRUCTION STANDARD, SECTION – SPECIFICATION 401. UNDERGROUND DUCTBANK SYSTEMS.

4.) NUMBER OF CONDUITS AS SHOWN ON PLANS.

5.) TRENCH WIDTH SHALL BE DISTANCE FROM OUTSIDE FACE OF OUTER MOST CONDUITS PLUS 6 INCHES.

6.) WHEN APPROVED BY LOS ALAMOS COUNTY UTILITY ENGINEERING DEPARTMENT, ELECTRIC PRIMARY DUCTBANK CAN BE INSTALLED WITH A MINIMUM COVER OF 24 INCHES IF THE FOLLOWING REQUIREMENTS ARE MET.

- A 6 INCH THICK CONCRETE CAP IS PLACED 6 INCHES ABOVE CONDUIT THE ENTIRE TRENCH WIDTH
- 6 INCH BEDDING MATERIAL BETWEEN CAP AND CONDUIT
- WARNING TAPE PLACED OVER CONCRETE CAP
- CONCRETE CAP SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 (PSI)

LOS ALAMOS
Department of Public Utilities
Electric, Gas, Water, and Wastewater Services

UTILITY CONSTRUCTION STANDARDS – ELECTRIC
48" x 48" x 48"
OPEN BOTTOM POLYMER CONCRETE VAULT

SECTION
4000
4038

No.
DATE:
REVISION:
APPROVED BY:
DATE: APRIL 2018

½" STAINLESS STEEL HEX HEAD BOLT WITH WASHER (4)

SKID RESISTANT SURFACE

52 3/8"

HEAVY DUTY COVER MARKED ELECTRIC

52 3/8"

3"

PULL SLOT OR LIFTING EYE

POLYMER TOUNGE & GROOVE

BEAM BY MANUFACTURER

LIFTING BOLT (4)

48" MIN

48" MIN

48" MIN

VAULT CONSTRUCTION NOTES

1.) VAULT TO BE USED FOR H-20 TRAFFIC DESIGN LOADING. ALL LIVE LOADS SHALL BE FOR HS-20-44 (MS-18) AS PER AASHTO STANDARD SPECIFICATION, DIV 1, SEC. 3

2.) VAULT EXCAVATION AND BACKFILL TO CONFORM TO LOS ALAMOS COUNTY UTILITIES SPECIFICATIONS

3.) BUTYL RUBBER OR NEOPRENE GASKET SEAL REQUIRED BETWEEN VAULT SECTION AND OR EXTENSIONS

4.) LIDS TO BE MARKED "ELECTRIC"

5.) ALL WEIGHTS TO BE CLEARLY MARKED

6.) DELIVERY OF THE VAULT REQUIRES COORDINATION WITH LOS ALAMOS COUNTY UTILITIES ENGINEERING

7.) POLYMER CONCRETE VAULTS SHALL COMPLY WITH LOS ALAMOS COUNTY UTILITIES CONSTRUCTION STANDARD, SECTION – SPECIFICATION 401. UNDERGROUND DUCTBANK SYSTEMS.

8.) FIELD CUT BOX AS NEEDED TO RECEIVE CONDUITS.

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LOS ALAMOS

LOS ARBOLES
LIFT STATION IMPROVEMENTS
TRENCHING STANDARD

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