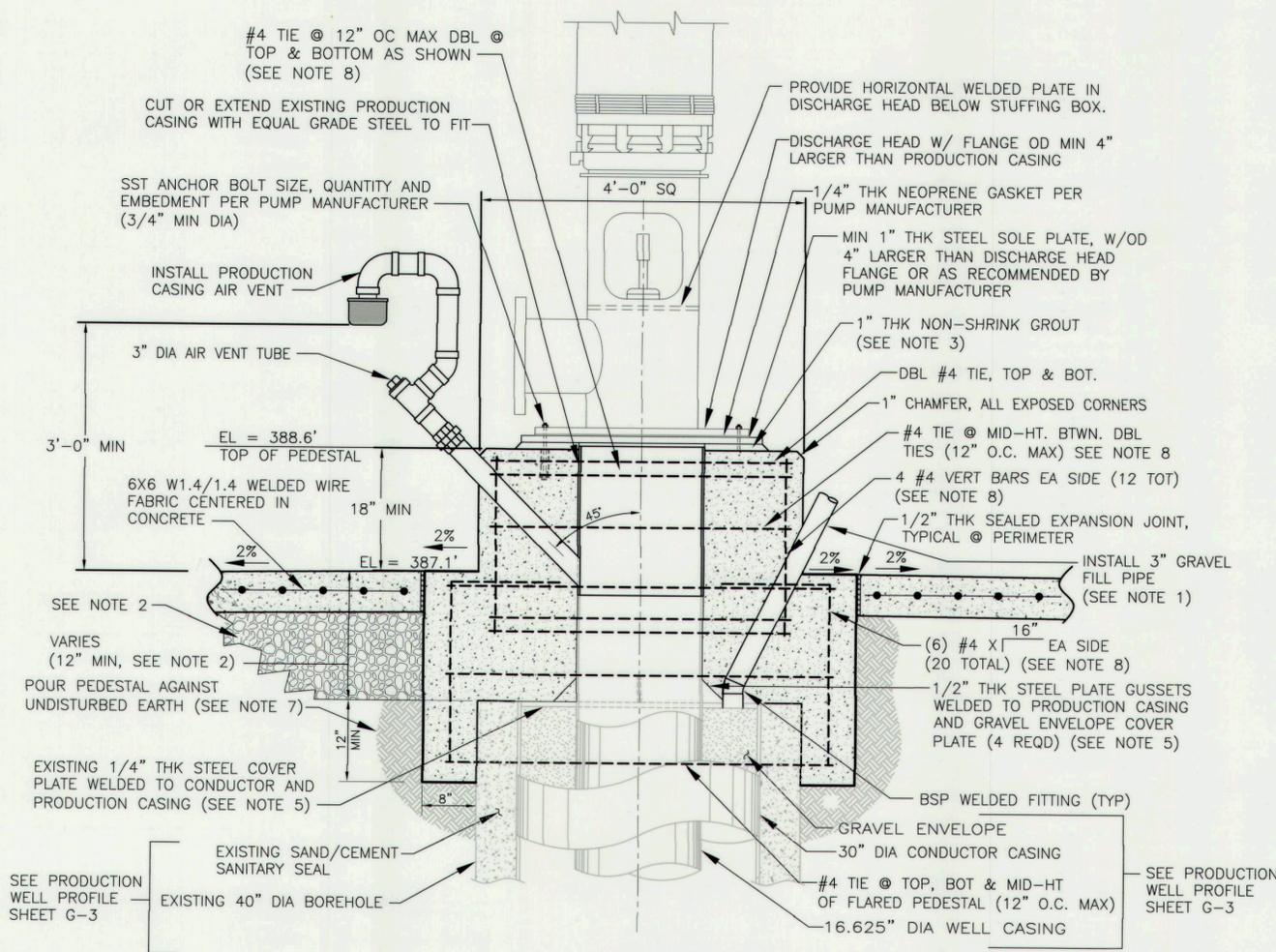


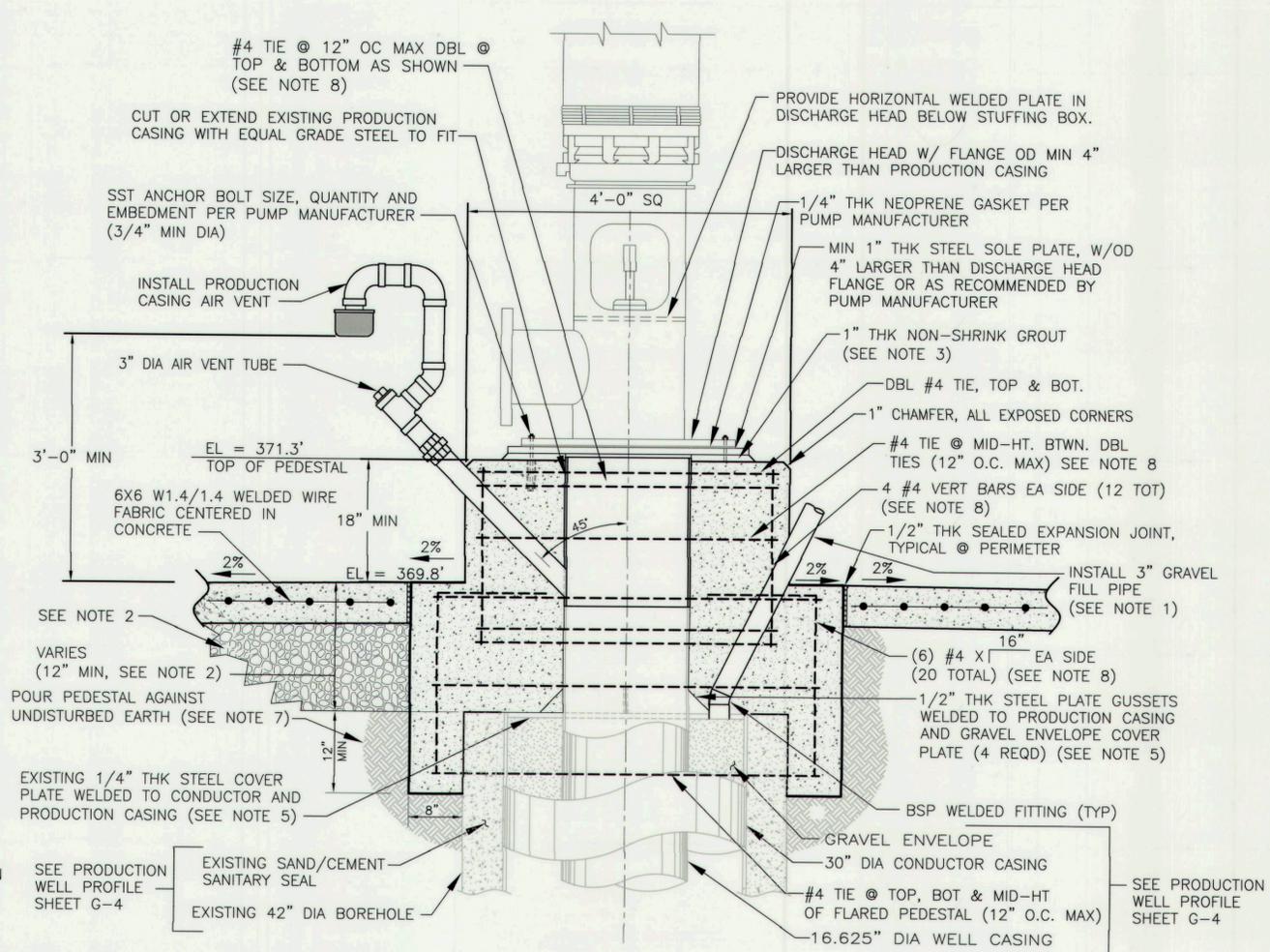
GAD FILE: G:/Projects/City of Morgan Hill/15-3-053/Pump Station/M-2.dwg DATE: 03-16-17 10:26am



**BOYS RANCH WELL #2A
PUMP PEDESTAL - MECHANICAL**

NOTES:

- 1.) GRAVEL FILL PIPE AND AIR VENT TUBE ARE SHOWN IN A ROTATED POSITION FOR CLARITY. SEE SHEET M-1 FOR ORIENTATION. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND PROVIDE OFF-SETS AS NECESSARY TO AVOID CONFLICTS WITH WELL HEAD AND STATION PIPING.
- 2.) 12" MINIMUM CLASS 2 AB COMPACTED TO 95% BENEATH CONCRETE SLAB. SLOPE CONCRETE SLAB MINIMUM OF 2% FROM PEDESTAL. CONCRETE PER CALTRANS SECTION 40, 3000 PSI.
- 3.) THE WELL MAY HAVE AN INCLINATION. ALIGN DISCHARGE HEAD AND PLACE SHIMS OR LEVELING WEDGES BETWEEN SOLE PLATE AND PEDESTAL, AS REQUIRED.
- 4.) EXTERIOR SURFACE OF PUMP PEDESTAL SHALL BE SMOOTH GROUT FINISHED.
- 5.) IF THE STEEL COVER PLATE IS NOT PRESENT, THE STEEL GUSSETS ARE NOT REQUIRED.
- 6.) CONTRACTOR TO INSURE ALL UNDERGROUND CONDUITS NEAR PEDESTAL ARE IN PLACE PRIOR TO POURING THE PEDESTAL. SEE ELECTRICAL DRAWINGS.
- 7.) THE CONTRACTOR SHALL LOCATE AND CLEAN THE EXISTING SANITARY SEAL AND EXTEND THE PEDESTAL BASE AS SHOWN. CONTRACTOR SHALL ASSUME THAT THE SURFACE SEAL EXISTS 2 TO 5 FEET BELOW GROUND SURFACE. CONTRACTOR SHALL BOND PUMP PEDESTAL TO EXISTING SANITARY SEAL WITH TWO PART EPOXY CONFORMING TO SECTION 95 OF THE CALTRANS STANDARD SPECIFICATIONS.
- 8.) MAINTAIN 3" CLEARANCE FROM OUTSIDE EDGE OF REBAR TO EDGE OF CONCRETE. TIES SHALL HAVE A 12" OVERLAP AND A 1 1/2" MIN VERTICAL CLEARANCE BETWEEN DOUBLE BARS.



**JACKSON WELL #3
PUMP PEDESTAL - MECHANICAL**

NOTES:

- 1.) GRAVEL FILL PIPE AND AIR VENT TUBE ARE SHOWN IN A ROTATED POSITION FOR CLARITY. SEE SHEET M-1A FOR ORIENTATION. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND PROVIDE OFF-SETS AS NECESSARY TO AVOID CONFLICTS WITH WELL HEAD AND STATION PIPING.
- 2.) 12" MINIMUM CLASS 2 AB COMPACTED TO 95% BENEATH CONCRETE SLAB. SLOPE CONCRETE SLAB MINIMUM OF 2% FROM PEDESTAL. CONCRETE PER CALTRANS SECTION 40, 3000 PSI.
- 3.) THE WELL MAY HAVE AN INCLINATION. ALIGN DISCHARGE HEAD AND PLACE SHIMS OR LEVELING WEDGES BETWEEN SOLE PLATE AND PEDESTAL, AS REQUIRED.
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- 7.) THE CONTRACTOR SHALL LOCATE AND CLEAN THE EXISTING SANITARY SEAL AND EXTEND THE PEDESTAL BASE AS SHOWN. CONTRACTOR SHALL ASSUME THAT THE SURFACE SEAL EXISTS 2 TO 5 FEET BELOW GROUND SURFACE. CONTRACTOR SHALL BOND PUMP PEDESTAL TO EXISTING SANITARY SEAL WITH TWO PART EPOXY CONFORMING TO SECTION 95 OF THE CALTRANS STANDARD SPECIFICATIONS.
- 8.) MAINTAIN 3" CLEARANCE FROM OUTSIDE EDGE OF REBAR TO EDGE OF CONCRETE. TIES SHALL HAVE A 12" OVERLAP AND A 1 1/2" MIN VERTICAL CLEARANCE BETWEEN DOUBLE BARS.



MECHANICAL DETAILS I
Boys Ranch Well #2A and Jackson Well #3 Pump Stations
City of Morgan Hill
Morgan Hill, California

LUHDOFF & SCALMANINI
CONSULTING ENGINEERS
500 FIRST STREET
WOODLAND, CALIFORNIA
PHONE: (530) 661-0109

NO.	DATE	REVISIONS

DATE: MARCH 2017
JOB NO.: 15-3-053
DESIGN BY: JMC
DRAWN BY: DWT
CHECKED BY: JDF
FILE: M-2.dwg

SHEET:
M-2



MECHANICAL DETAILS II
Boys Ranch Well #2A and Jackson Well #3 Well Pump Stations
City of Morgan Hill
Morgan Hill, California

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS
500 FIRST STREET
WOODLAND, CALIFORNIA
PHONE: (530) 661-0109

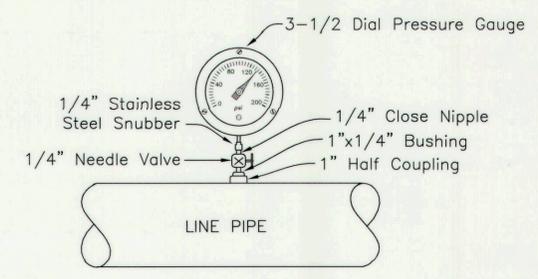


NO.	DATE	REVISION

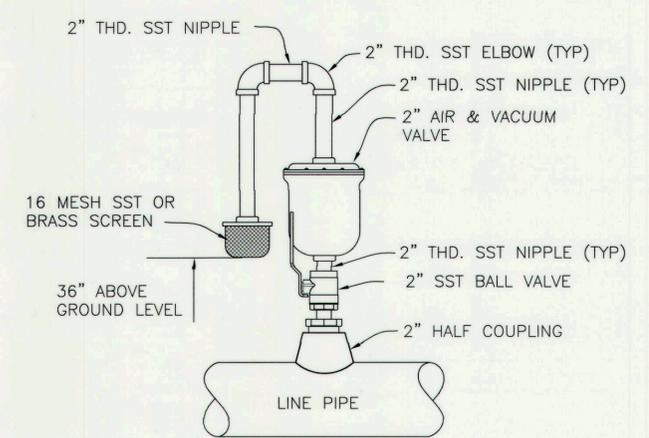
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JOB NO.: 15-3-053
DESIGN BY: JMC
DRAWN BY: DWT
CHECKED BY: JDF
FILE: M-3.dwg

SHEET:
M-3

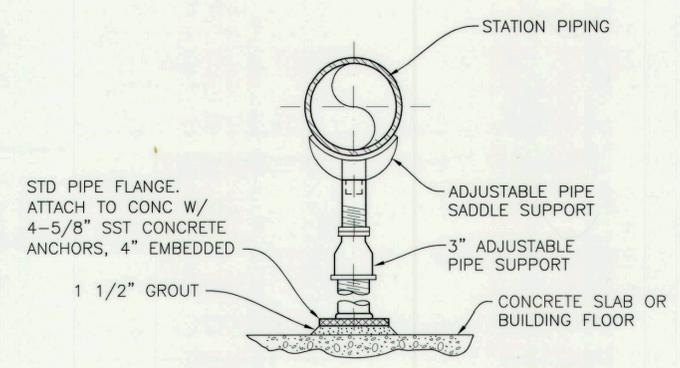
ALL FITTINGS TO BE STAINLESS STEEL OR BRASS



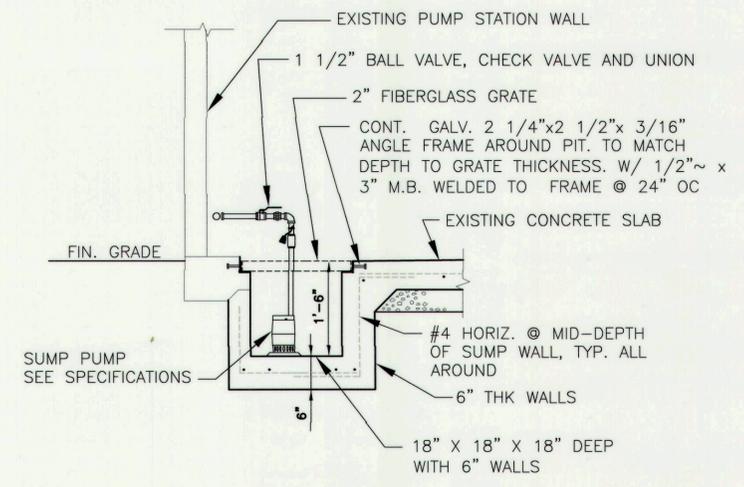
PRESSURE GAUGE DETAIL (A)
N.T.S. (M-1)



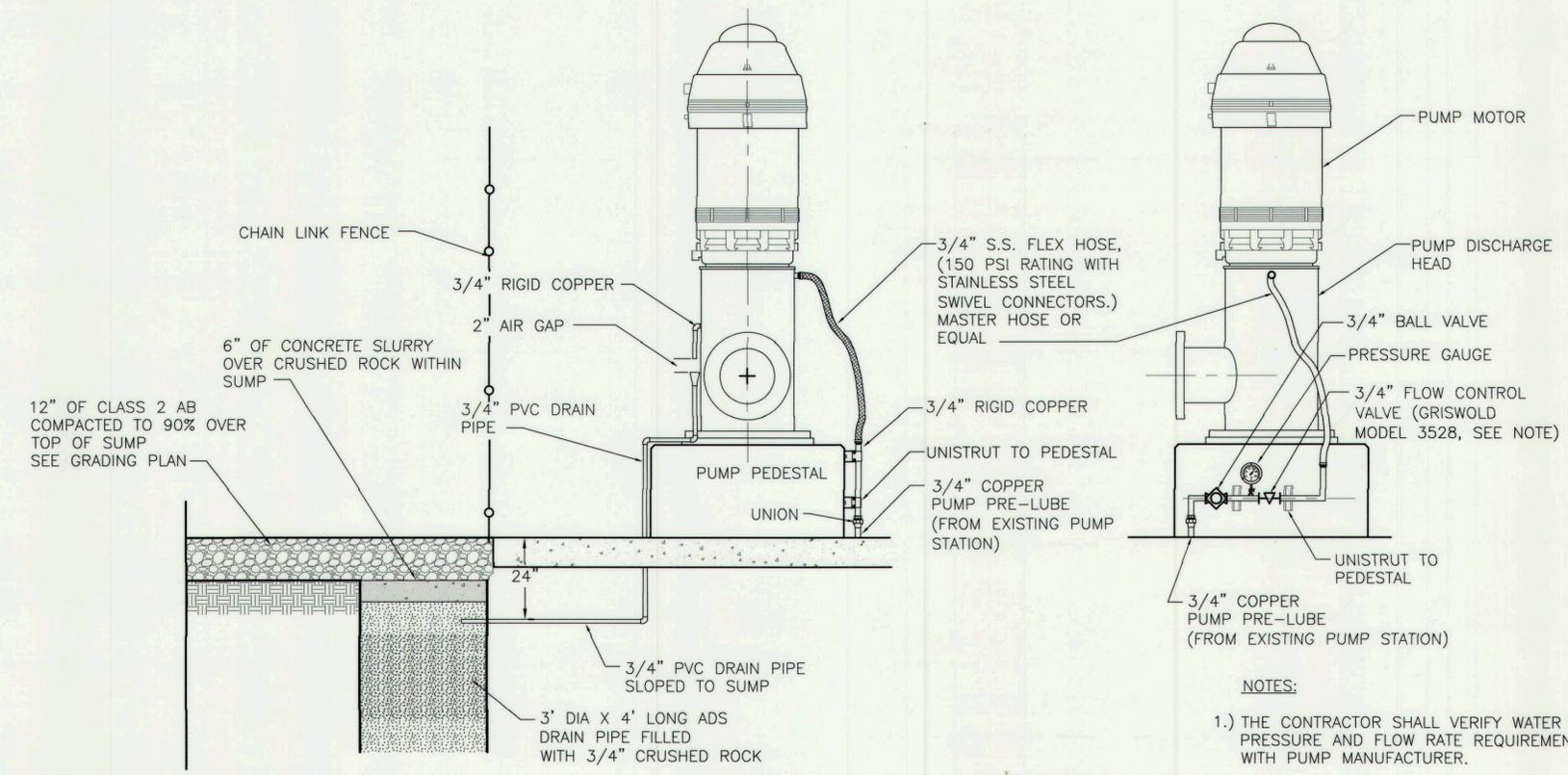
AIR RELEASE AND VACUUM VALVE DETAIL (B)
N.T.S. (M-1)



ADJUSTABLE PIPE SUPPORT ASSEMBLY (C)
N.T.S. (M-1)



SUMP PUMP DETAIL (D)
N.T.S. (C-1)



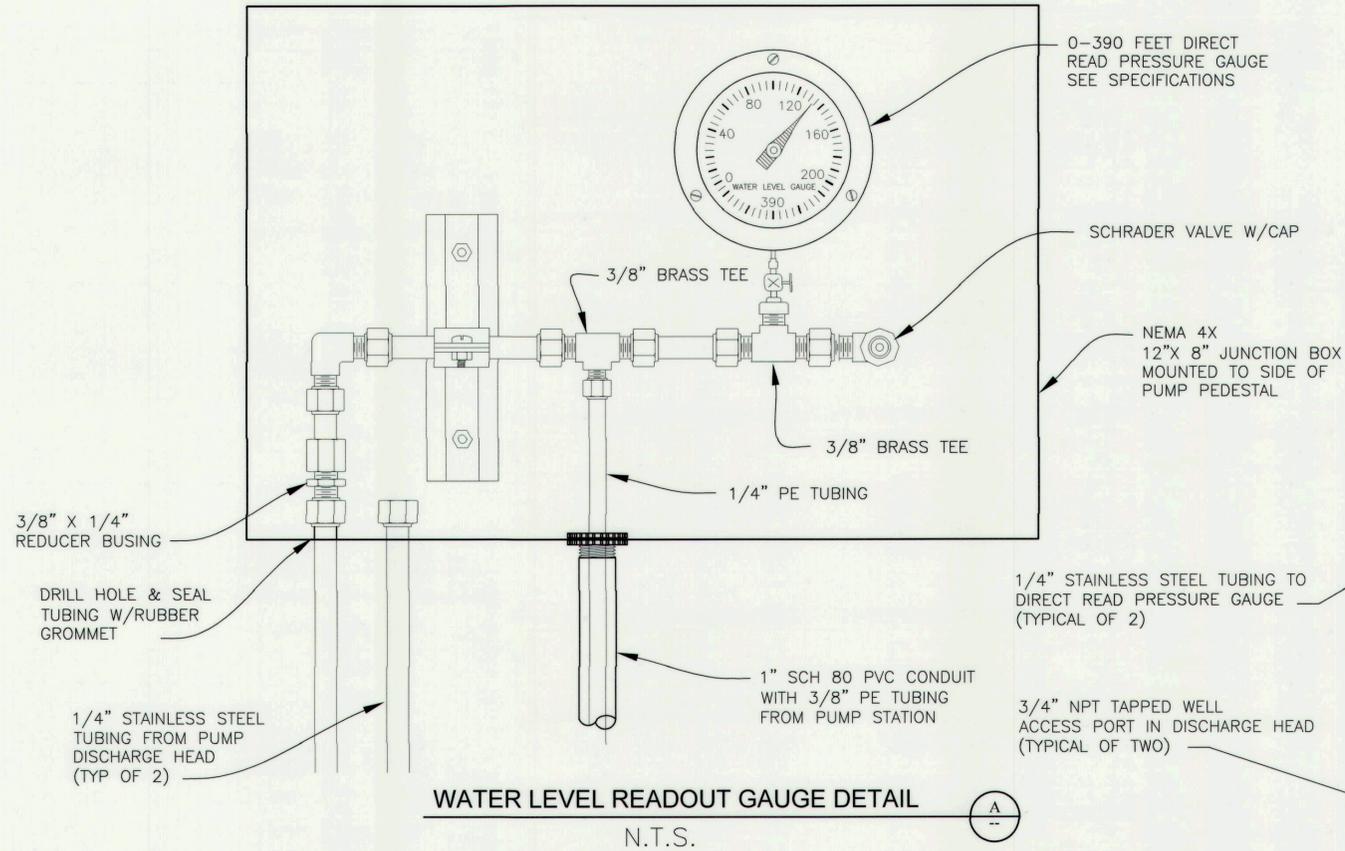
WATER LUBE CONNECTION AT WELL (E)
NOT TO SCALE (M-1)

NOTES:
1.) THE CONTRACTOR SHALL VERIFY WATER LUBRICATION, PRESSURE AND FLOW RATE REQUIREMENT WITH PUMP MANUFACTURER.

CAD FILE: G:/Projects/City of Morgan Hill/15-3-053/Pump Station/M-3.dwg CFG FILE: LSCE2500.PCP_MRG DATE: 03-16-17 10:52am

CAD FILE: G:/Projects/City of Morgan Hill/15-3-053/Pump Station/M-4R.dwg CFG FILE: LSCE2500.PCP_MRG DATE: 03-20-17 3:26pm

NOTE: ALL FITTINGS TO BE BRASS

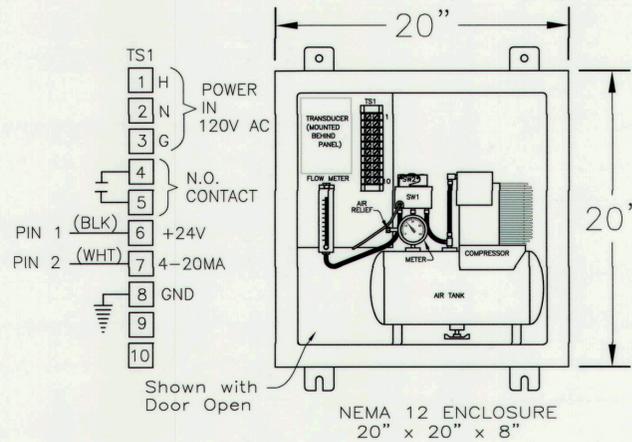
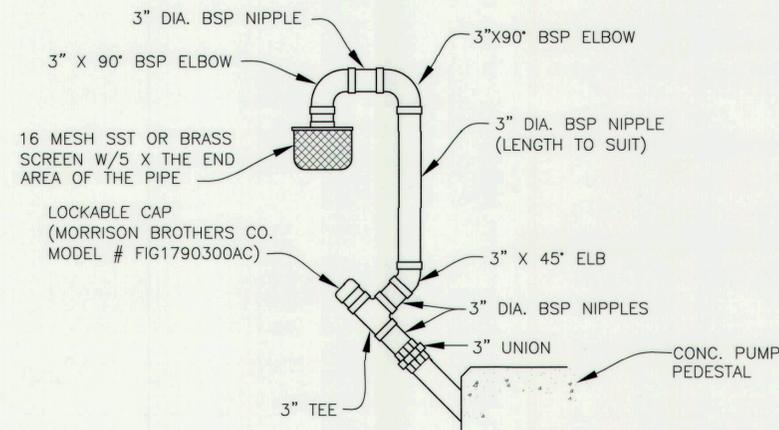
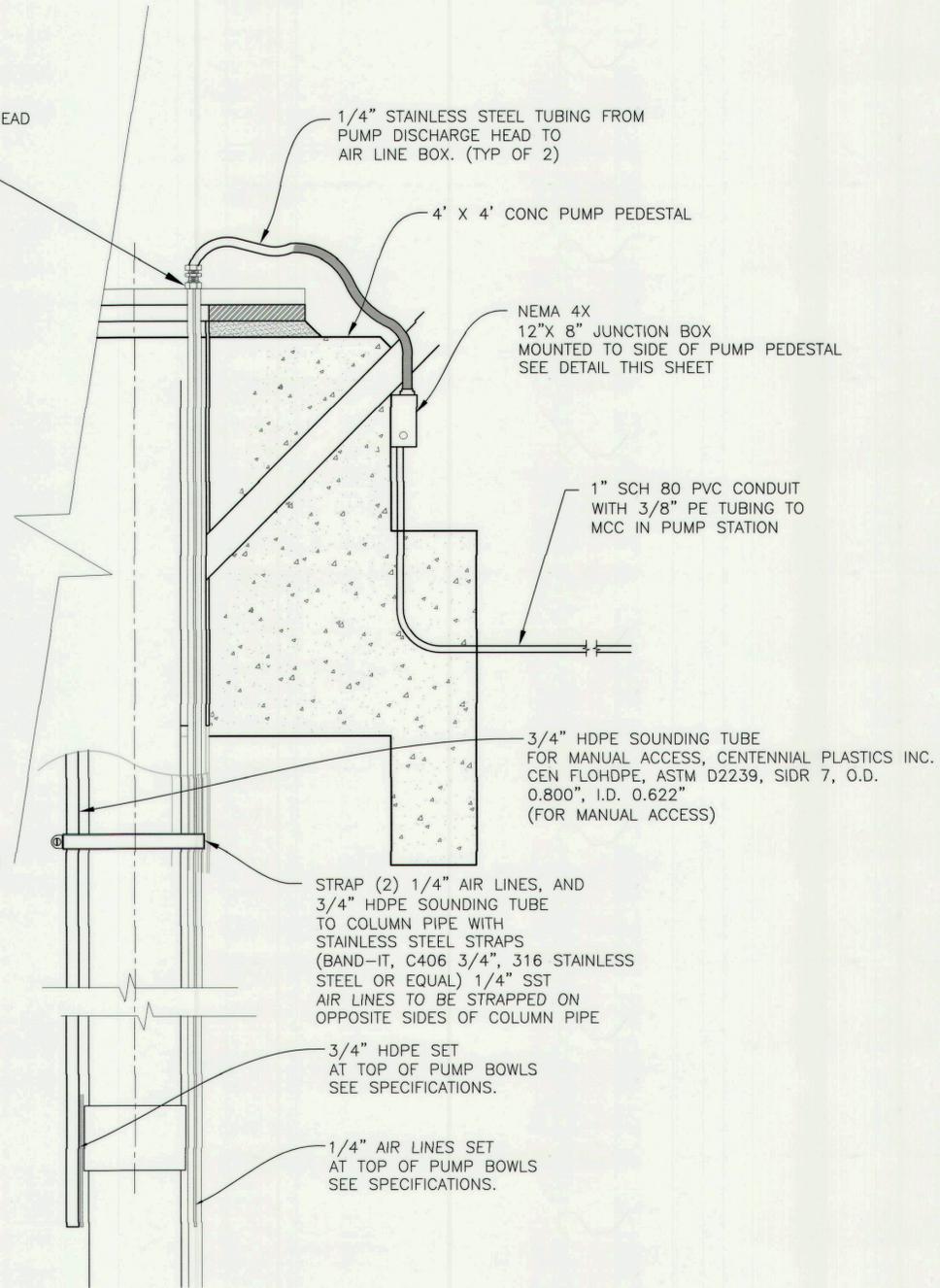


3/4" NPT TAPPED WELL ACCESS PORT IN DISCHARGE HEAD (TYPICAL OF TWO)

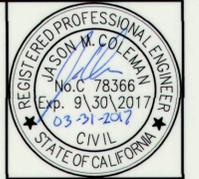


DOWN HOLE AIR LINE ASSEMBLY

N.T.S.



TO BE MOUNTED IN THE MCC



MECHANICAL DETAILS III
Boys Ranch Well #2A and Jackson Well #3 Well Pump Stations
City of Morgan Hill
Morgan Hill, California

LUHDOFF & SCALMANINI CONSULTING ENGINEERS
500 FIRST STREET
WOODLAND, CALIFORNIA
PHONE: (530) 661-0109



NO.	DATE	REVISIONS

DATE: MARCH 2017
JOB NO.: 15-3-053
DESIGN BY: JMC
DRAWN BY: DWT
CHECKED BY: JDF
FILE: M-4.dwg

SHEET:

M-4



DATE: 3-21-17

ELEC. SITE PLAN - BOYS RANCH 2A
Construction of 2 Pump Stations
Boys Ranch 2A & Jackson 3A
City of Morgan Hill
Morgan Hill, California

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS
500 FIRST STREET
WOODLAND, CALIFORNIA
PHONE: (530) 661-0109

NO.	DATE	REVISION

DATE: MARCH 2017
 JOB NO.: 15-3-053
 DESIGN BY:
 DRAWN BY:
 CHECKED BY:
 FILE:

SHEET:

E-1

COYOTE CREEK

Top Of Creek Bank

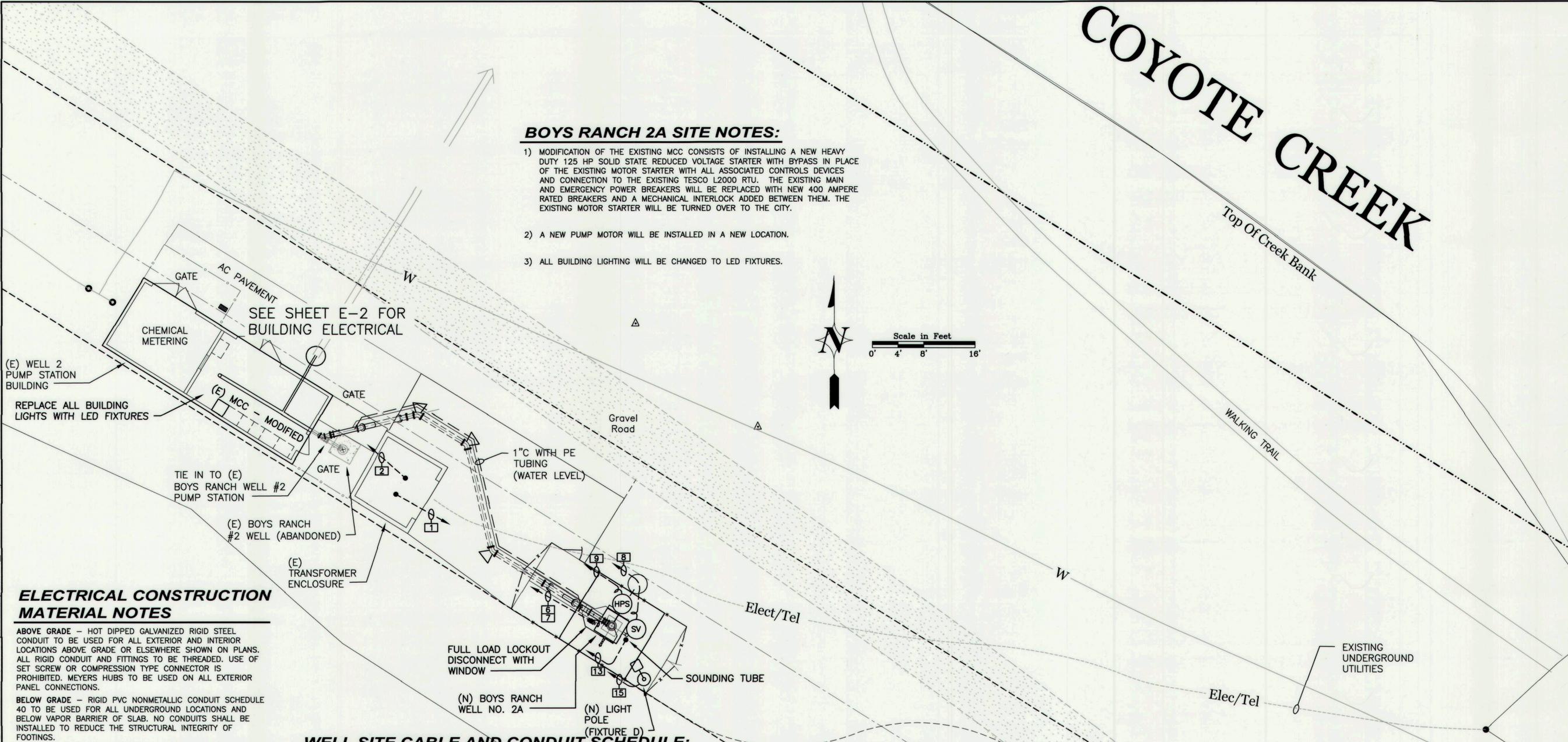
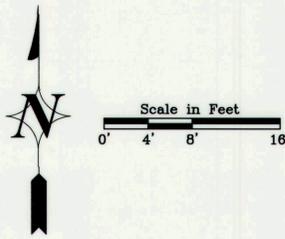
WALKING TRAIL

Elec/Tel

EXISTING UNDERGROUND UTILITIES

BOYS RANCH 2A SITE NOTES:

- 1) MODIFICATION OF THE EXISTING MCC CONSISTS OF INSTALLING A NEW HEAVY DUTY 125 HP SOLID STATE REDUCED VOLTAGE STARTER WITH BYPASS IN PLACE OF THE EXISTING MOTOR STARTER WITH ALL ASSOCIATED CONTROLS DEVICES AND CONNECTION TO THE EXISTING TESCO L2000 RTU. THE EXISTING MAIN AND EMERGENCY POWER BREAKERS WILL BE REPLACED WITH NEW 400 AMPERE RATED BREAKERS AND A MECHANICAL INTERLOCK ADDED BETWEEN THEM. THE EXISTING MOTOR STARTER WILL BE TURNED OVER TO THE CITY.
- 2) A NEW PUMP MOTOR WILL BE INSTALLED IN A NEW LOCATION.
- 3) ALL BUILDING LIGHTING WILL BE CHANGED TO LED FIXTURES.



ELECTRICAL CONSTRUCTION MATERIAL NOTES

ABOVE GRADE - HOT DIPPED GALVANIZED RIGID STEEL CONDUIT TO BE USED FOR ALL EXTERIOR AND INTERIOR LOCATIONS ABOVE GRADE OR ELSEWHERE SHOWN ON PLANS. ALL RIGID CONDUIT AND FITTINGS TO BE THREADED. USE OF SET SCREW OR COMPRESSION TYPE CONNECTOR IS PROHIBITED. MEYERS HUBS TO BE USED ON ALL EXTERIOR PANEL CONNECTIONS.

BELOW GRADE - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 40 TO BE USED FOR ALL UNDERGROUND LOCATIONS AND BELOW VAPOR BARRIER OF SLAB. NO CONDUITS SHALL BE INSTALLED TO REDUCE THE STRUCTURAL INTEGRITY OF FOOTINGS.

CHEMICAL BUILDINGS AND CORROSIVE ATMOSPHERES - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 80 TO BE USED FOR ALL INTERIOR LOCATIONS ABOVE GRADE IN CHEMICAL BUILDINGS AND CORROSIVE ENVIRONMENTS.

THROUGH CONCRETE SLABS AND EXTERIOR CORROSIVE ATMOSPHERES - PVC COATED GALVANIZED RIGID STEEL CONDUIT MINIMUM 40 MIL FACTORY COATING TO BE USED FOR ALL EXPOSED CONDUITS THROUGH CONCRETE SLABS (MINIMUM 12" ABOVE AND BELOW SLAB) AND ALL EXTERIOR LOCATION CORROSIVE ATMOSPHERES. USE MANUFACTURERS' SPECIFIED TOOLS AND PROCEDURES FOR INSTALLATION.

MOTORS AND SENSOR CONNECTIONS - LIQUID TIGHT FLEXIBLE METAL CONDUIT (UV RESISTANT) TO ONLY BE USED ON CONNECTIONS TO MOTORS AND SENSORS OR TO ISOLATE VIBRATION. MAXIMUM LENGTH TO BE 30".

JUNCTION BOXES - MINIMUM SIZE PER NEC. EXPOSED LOCATION, 1 AND 2 GANG TO BE CAST IRON DEVICE BOXES TYPE FS/FD SUITABLE FOR WET LOCATIONS. EXPOSED LOCATION EXTERIOR LARGER SIZES CONTINUOUS HINGE TYPE 4, CORROSIVE LOCATIONS CONTINUOUS HINGE TYPE 4X STAINLESS STEEL.

GROUND CONNECTIONS - GROUND CONNECTIONS TO BE EXOTHERMIC CADWELD (ALL 600 AMP OR LARGER SERVICE) OR BURNDY HYDRAULIC COMPRESSION CONNECTORS. GROUND BUS CONNECTIONS TO BE CRIMP LUG TYPE WITH BOLTED CONNECTION TO GROUND BUS.

480 VOLT AND BELOW POWER WIRING TO BE THWN-2 600 VOLT, ALL POWER CONNECTIONS TO BE TREATED WITH ANTIOXIDANT COMPOUND.

CONTACT EPS TO SCHEDULE AN ELECTRICAL PRECONSTRUCTION MEETING PRIOR TO COMMENCING CONSTRUCTION

WELL SITE CABLE AND CONDUIT SCHEDULE:

NO.	QTY	SIZE	NO. WIRES	WIRE SIZE	GND/FUNCTION	FROM	TO
1	Per PGE		Per PGE	Per PGE	PGE Primary	(E)Pri. Box	(N)Padmount Tr
2	Per PGE		Per PGE	Per PGE	PGE Sec	(N)Padmount Tr	(N) Meter Main
3	2	3"	4	#350 MCM	#10 MCC Main Feed	Meter Main	MCC Main
4					Generator Receptacle	MCC Gen CB	Gen Receptacle
5	1	1"	1	Pullicord	Spare	MCC	Stubout 2'
6	1	3"	3	#4/0	#4 Pump Motor	SSRV	Pump Motor
7	1	3/4"	5	#14	Motor Thermoswitch/Winding HTR	Pump Motor	PLC
8	1	3/4"	2	#12	Pump Lube Solenoid	SSRV	Pump Motor
9	1	3/4"	2	#12	High Pressure Switch	SSRV	HPS
10	1	3/4"	1	#18 TSP	Pump Pressure Transmitter	PLC	PT
11	1	3/4"	6	#14	Pump to Waste Valve	PLC	PTW Valve
12	1	3/4"	2	#18 TSP	Flow 4-20ma/Totalizer	PLC	Flow Transmitter
13	1	1"	1	3/8" Poly	Reactive Air Level Sensor	PLC	Well Sounding Tube
14	1	1"	1	Com Cable	Radio antenna	Radio	Antenna
15	1	3/4"	2	#10	Outside Lighting	LP	Outside Lighting
16	1	3/4"	2	#12	GFI Outlets	LP	GFI Outlets
17	1	3/4"	2	#14	Intrusion Alarm Reset	PLC	Reset PB inside door
18	1	3/4"	2	#14	Intrusion Alarm	PLC	Intrusion Switch on door
19	1	1"	1	Pullicord	Spare	PLC	CI Building
20							
21	1	3/4"	2	#10	Building Lighting	LP	Building Lighting
22							
23							
24	1	3/4"	2	#12	Chlorine Metering Power	PLC-CR	CPP
25	1	3/4"	2	#14	Chlorine Metering Pump Enable	PLC	Intrusion Switch
26	1	3/4"	2	#10	Intrusion Switch	LP	Vent Fan
27	1	3/4"	2	#8	Heaters	LP	Heater
28	2	3"	1	Pullicord	Spare	MCC	Stubout 2'
29							
30							
31							
32							

BOYS RANCH 2A SITE PLAN

SYMBOL LEGEND:

- = CONDUIT, EXPOSED; OR CONCEALED IN WALL OR CEILING
- - - = CONDUIT, UNDERGROUND
- ⊥ = YAGI ANTENNA
- (FIT) = FLOW INDICATING TRANSMITTER
- (HPS) = HIGH PRESSURE SWITCH - MERCOID DAW SNAP ACTION
- (PIT) = PRESSURE INDICATING TRANSMITTER
- (SV) = SOLENOID SWITCH
- [7] = INDICATES CABLE & CONDUCTOR SCHEDULE NUMBER
- (E) = EXISTING
- (F) = FUTURE
- (N) = NEW

LIGHT FIXTURE SCHEDULE

- (A) - 4' LED strip - Dust and moisture tight, rapid start, any temperature, 120V Electronic
- 4' Lithonia FEM4LED Linear Rough Service, Acrylic clear deep lens, 61 watts, 4100K, with mounting brackets or equal; Holophane EMS4LED 4L IMAFL, Linear Industrial LED, Lens & Gasketed with Stainless Steel Clips, MVOLT, Frosted Acrylic Lens, 4100K
- (C1) - LED Wall Pack Indoor/Outdoor W/ PE, motion detector & override switch
Holophane Wallpack IV W4GLEd-10C-1000-40K-T3M-MVOLT-PE-BZ, Lithonia TWH LED 10C 1000 40K T3M MVOLT or equal
- (D) - Outdoor Floodlight LED W/ PE, motion detector & override
Lithonia DXSF1 LED 2 A530/40K MFL MVolt DDBXD or equal; American Electric Flood ACP1 LED 3 07A MVOLT 66 4K TG BZ 0463

BOYS RANCH 2A

JOE PREVENDAR P.E. CA EE 16581 joe@epsfresno.com	GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com
DATE: NOV 2016	DATE: NOV 2016
FILE: LS174_BR2-SP01	
PLOT: 3/30/2017 9:14 AM / 1:1	
DSGN: JPP	DRWN: CRT

EPS IS RESPONSIBLE FOR ELECTRICAL SYSTEMS DESIGN ONLY. EPS IS NOT RESPONSIBLE FOR ELECTRICAL SAFETY WORK PROCEDURES AND/OR USE OF REQUIRED PERSONAL PROTECTIVE EQUIPMENT. SEE NFPA 70E "STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE" AND OSHA 29 CFR. CONTRACTOR MUST READ SPECIFICATIONS AND INSTALL MATERIAL AS PER SPECIFICATIONS AND/OR PLANS OR AS PER E.P.S. APPROVAL. PLANS AND SPECIFICATIONS ONLY APPLY TO THE PROJECT FOR WHICH THEY WERE CREATED.

ELECTRICAL POWER SYSTEMS INC.
 PROFESSIONAL AND CONSULTING ELECTRICAL ENGINEERING
 4049 N FRESNO ST, FRESNO, CA 93726
 P: (559) 221-7230 F: (559) 221-0507

CAD FILE: G:/Projects/City of Morgan Hill/15-3-053/Pump Station/Electrical_030917_boys_ranch/LS174_BR2-SP01.dwg CFG FILE: LSCE2500.PCP_MRG DATE: 03-17-17 9:29am

ELECTRICAL CONSTRUCTION MATERIAL NOTES

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- - - = CONDUIT, UNDERGROUND
- ⊥ = YAGI ANTENNA
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- [7] = INDICATES CABLE & CONDUCTOR SCHEDULE NUMBER
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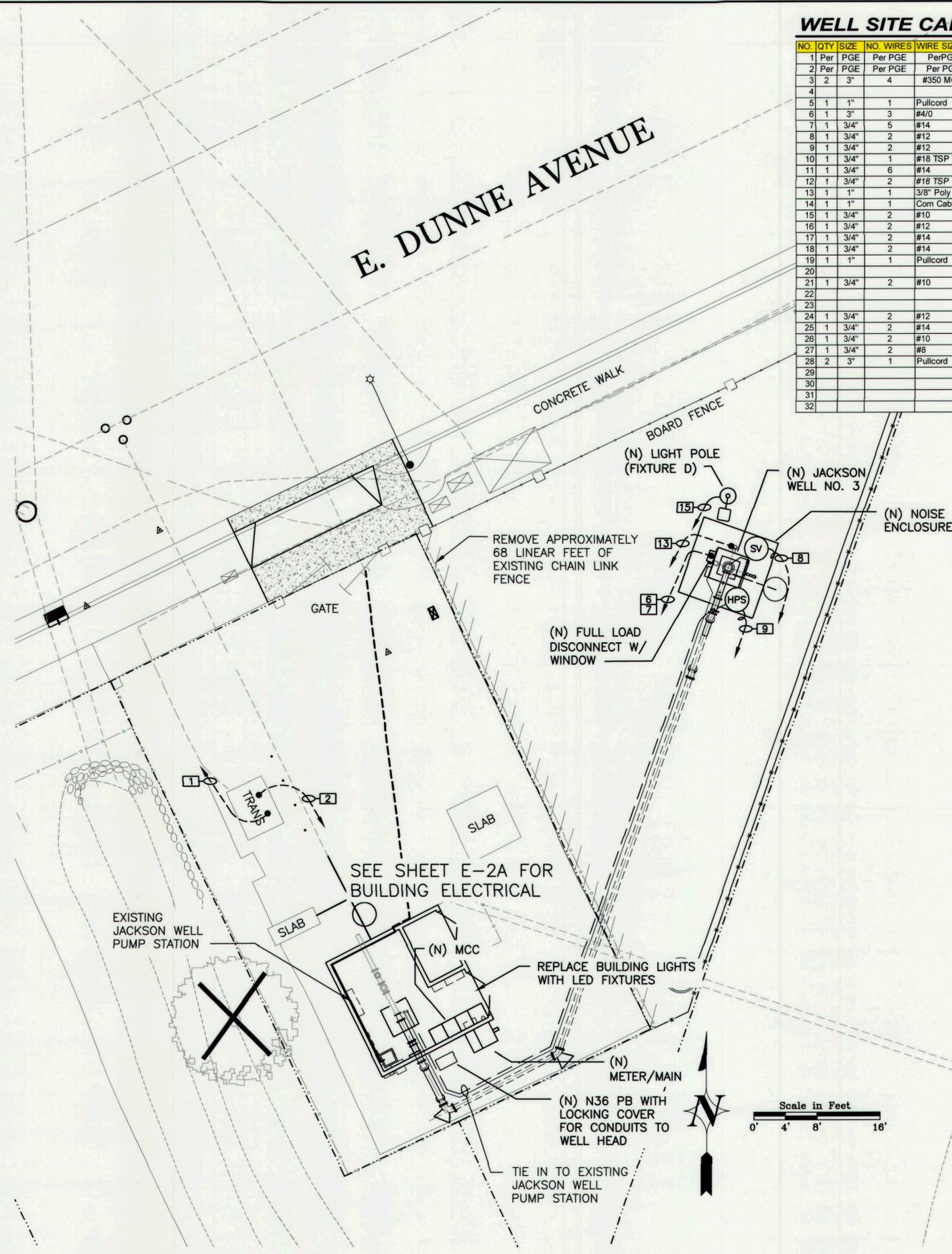
LIGHT FIXTURE SCHEDULE

- (A) - 4' LED strip - Dust and moisture tight, rapid start, any temperature, 120V Electronic
- 4' Lithonia FEM4LED Linear Rough Service, Acrylic clear deep lens, 61 watts, 4100K, with mounting brackets or equal; Holophane EMS4LED 4L IMAFL, Linear Industrial LED, Lens & Gasketed with Stainless Steel Clips, MVOLT, Frosted Acrylic Lens, 4100K
- (C1) - LED Wall Pack Indoor/Outdoor W/ PE, motion detector & override switch
- Holophane Wallpack IV W4GLED-10C-1000-40K-T3M-MVOLT-PE-BZ, Lithonia TWH LED 10C 1000 40K T3M MVOLT or equal
- (D) - Outdoor Floodlight LED W/ PE, motion detector & override
- Lithonia DXSF1 LED 2 A530/40K MFL MvOLT DDBXD or equal; American Electric Flood ACP1 LED 3 07A MVOLT 66 4K TG BZ 0463

WELL SITE CABLE AND CONDUIT SCHEDULE:

NO.	QTY	SIZE	NO. WIRES	WIRE SIZE	GND/FUNCTION	FROM	TO
1	Per	PGE	Per PGE	PerPGE	PGE Primary	(E)Pri. Box	(N)Padmount Tfr
2	Per	PGE	Per PGE	Per PGE	PGE Sec	(N)Padmount Tfr	(N) Meter Main
3	2	3"	4	#350 MCM	#1/0 MCC Main Feed	Meter Main	MCC Main
4					Generator Receptacle	MCC Gen CB	Gen Receptacle
5	1	1"	1	Pullcord	Spare	MCC	Stubout 2'
6	1	3"	3	#4/0	#4 Pump Motor	SSRV	Pump Motor
7	1	3/4"	5	#14	Motor Thermoswitch/Winding HTR	Pump Motor	PLC
8	1	3/4"	2	#12	Pump Lube Solenoid	SSRV	Pump Motor
9	1	3/4"	2	#12	High Pressure Switch	SSRV	HPS
10	1	3/4"	1	#18 TSP	Pump Pressure Transmitter	PLC	PT
11	1	3/4"	6	#14	Pump to Waste Valve	PLC	PTW Valve
12	1	3/4"	2	#18 TSP	Flow 4-20ma/Totalizer	PLC	Flow Transmitter
13	1	1"	1	3/8" Poly	Radio Air Level Sensor	PLC	Well Scounding Tube
14	1	1"	1	Com Cable	Radio antenna	Radio	Antenna
15	1	3/4"	2	#10	#10 Outside Lighting	LP	Outside Lighting
16	1	3/4"	2	#12	#12 GFI Outlets	LP	GFI Outlets
17	1	3/4"	2	#14	Intrusion Alarm Reset	PLC	Reset PB inside door
18	1	3/4"	2	#14	Intrusion Alarm	PLC	Intrusion Switch on door
19	1	1"	1	Pullcord	Spare	PLC	CI Building
21	1	3/4"	2	#10	#10 Building Lighting	LP	Building Lighting
22							
23					Chlorine Metering Power		
24	1	3/4"	2	#12	Chlorine Metering Pump Enable	PLC-CR	CPP
25	1	3/4"	2	#14	Intrusion Switch	PLC	Intrusion Switch
26	1	3/4"	2	#10	Vent Fan	LP	Vent Fan
27	1	3/4"	2	#8	Heaters	LP	Heater
28	2	3"	1	Pullcord	Spares	MCC	Stubout 2'
29							
30							
31							
32							

E. DUNNE AVENUE



JACKSON 3A SITE NOTES:

- REPLACEMENT OF THE MCC AND ELECTRICAL SWITCHGEAR SCOPE INCLUDES CONDUIT MODIFICATION AND CABLING OF ALL EXISTING EQUIPMENT TO RECONNECT TO NEW ELECTRICAL PANELS AND REPLACEMENT OF LIGHTS AND OUTLETS (GFI) WITH NEW.
- EQUIPMENT INCLUDES BUT NOT LIMITED TO: CHEMICAL METERING PUMPS, PRESSURE TRANSMITTERS, FLOW TRANSMITTERS, SWITCHES, HEATERS AND FANS.
- THE ELECTRICAL DEMOLITION PLAN SHALL CONSIST OF REMOVAL OF EXISTING METER/MAIN, LOAD PANELS, DISTRIBUTION PANELS, AND DELIVER TO THE CITY'S SELECTED DESTINATION.



ELEC. SITE PLAN - JACKSON NO. 3
 Construction of 2 Pump Stations
 Boys Ranch 2A & Jackson 3A
 City of Morgan Hill
 Morgan Hill, California

LUHDORFF & SCALMANINI
 CONSULTING ENGINEERS
 500 FIRST STREET
 WOODLAND, CALIFORNIA
 PHONE: (530) 661-0109



NO.	DATE	REVISIONS

DATE: MARCH 2017
 JOB NO.: 15-3-053
 DESIGN BY:
 DRAWN BY:
 CHECKED BY:
 FILE:

JACKSON 3A
 JOE PREVENDAR P.E. CA EE 16581 GARY OLSEN P.E. CA EE 8283
 joe@epsfresno.com gary@epsfresno.com
 JOB: LS-15-174 DATE: NOV 2016
 FILE: LS174_J-SP01A
 PLOT: 3/30/2017 9:30 AM / 1:1
 DSGN: JPP DRWN: CRT



4049 N FRESNO ST, FRESNO, CA 93726
 P: (559) 221-7230 F: (559) 221-0507

JACKSON 3A SITE ELECTRICAL PLAN

SHEET:

E-1A

CAD FILE: G:\Projects\City of Morgan Hill\15-3-053\Pump Station\Electrical\030917-Jackson\LS174_J-SP01A.dwg CFG FILE: LSCE2500_PCP_MRG DATE: 03-17-17 9:59am