



DEVELOPMENT PERMIT APPLICATION

NOTE: Development Permit Application forms must accompany all other Community Development Department land use applications. This form and all documents associated with it are public record once submitted.

To be completed by Applicant	PROPERTY LOCATION		
	Physical Address Cope Park, 1001 Calhoun Avenue, Juneau AK 99801		
	Legal Description(s) (Subdivision, Survey, Block, Tract, Lot) USMS 761, 926 & USS 2348 [Cope Park]		
	Parcel Number(s) 1C040CR10070		
	<input type="checkbox"/> This property is located in the downtown historic district <input type="checkbox"/> This property is located in a mapped hazard area, if so, which _____		
	LANDOWNER/ LESSEE		
	Property Owner	Contact Person	
	City & Borough of Juneau	Alan Steffert	
	Mailing Address	Phone Number(s)	
	155 Heritage Way	907-586-0800 ext 4190	
E-mail Address	alan.steffert@juneau.gov		
LANDOWNER/ LESSEE CONSENT			
Required for Planning Permits, not needed on Building/ Engineering Permits.			
Consent is required of all landowners/ lessees. If submitted with the application, alternative written approval may be sufficient. Written approval must include the property location, landowner/ lessee's printed name, signature, and the applicant's name.			
I am (we are) the owner(s) or lessee(s) of the property subject to this application and I (we) consent as follows:			
A. This application for a land use or activity review for development on my (our) property is made with my complete understanding and permission.			
B. I (we) grant permission for the City and Borough of Juneau officials/employees to inspect my property as needed for purposes of this application.			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Dan Bleidorn Landowner/Lessee (Printed Name) </div> <div style="width: 45%;"> Lands Manager Title (e.g.: Landowner, Lessee) </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> x <u><i>Daniel Bleidorn</i></u> Landowner/Lessee (Signature) </div> <div style="width: 45%;"> <u>7/11/25</u> Date </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> _____ Landowner/Lessee (Printed Name) </div> <div style="width: 45%;"> _____ Title (e.g.: Landowner, Lessee) </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> x _____ Landowner/Lessee (Signature) </div> <div style="width: 45%;"> _____ Date </div> </div>			
NOTICE: The City and Borough of Juneau staff may need access to the subject property during regular business hours. We will make every effort to contact you in advance, but may need to access the property in your absence and in accordance with the consent above. Also, members of the Planning Commission may visit the property before a scheduled public hearing date.			
APPLICANT			
If same as LANDOWNER, write "SAME"			
Applicant (Printed Name)	Contact Person		
City & Borough of Juneau	Alan Steffert		
Mailing Address	Phone Number(s)		
155 Hertiage Way, Juneau Alaska 99801	907-586-0800 ext 4190		
E-mail Address	alan.steffert@juneau.gov		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> x <u><i>Alan Steffert</i></u> Applicant's Signature </div> <div style="width: 45%;"> _____ Date of Application </div> </div>			

DEPARTMENT USE ONLY BELOW THIS LINE

INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED

For assistance filling out this form, contact the Permit Center at 586-0770.

Case Number	Intake Initials
CS25 -02	<i>[Signature]</i>
Date Received	
10/15/25	



CITY/STATE PROJECT AND LAND ACTION REVIEW APPLICATION

See reverse side for more information regarding the permitting process and the materials required for a complete application.

NOTE: Must be accompanied by a DEVELOPMENT PERMIT APPLICATION form.

PROJECT SUMMARY

Replace the Water Utility's pump station at Cope Park. Demolish old pump station. Underground pipe and valve upgrades. New curb and gutter. New pavement.

TYPE OF PROJECT REVIEW:



City Project Review



State Project Review

PROJECT NUMBERS ASSOCIATED WITH PROPOSAL:

Is this project associated with any other Land Use Permits?

YES

Case No.:

NO

Capital Improvement Program # (CIP) W75-070

Local Improvement District # (LID) _____

State Project # _____

ESTIMATED PROJECT COST: \$ 1.7 million

ALL REQUIRED MATERIALS ATTACHED



Complete application



Pre-Application notes (if applicable)



Narrative including:

Current use of land or building(s)

Proposed use of land or building(s)

How the proposed project complies with the Comprehensive Plan

How the proposed project complies with the Land Use Code (Title 49)



Site Plan (details on page 2)

NOTE: This application is required even if the proposed project is associated with other Land Use permits.

DEPARTMENT USE ONLY BELOW THIS LINE

CITY/STATE PROJECT FEES	Fees	Check No.	Receipt	Date
Application Fees (≥\$2.5M)	\$ _____			
Pub. No. Sign Fee	\$ _____			
Pub. No. Sign Deposit	\$ _____			
TOTAL FEES	\$ _____			

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INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED

For assistance filling out this form, contact the Permit Center at 586-0770.

Case Number

CSP25-02

Date Received

10/15/25

City/State Project and Land Action Review Information

City and State project review is outlined in CBJ 49.15.580.

Each application for a City/State Project is reviewed by the Planning Commission at a public hearing. The permit procedure is intended to provide the Commission the flexibility necessary to make recommendations tailored to individual applications.

Application: An application for a City/State Project Review will not be accepted by the Community Development Department until it is determined to be complete. The items needed for a complete application are:

1. **Forms:** Completed City/State Project Review Application and Development Permit Application forms.
2. **Fees:** No application fee required for projects that cost less than \$2.5 million. For projects costing more than this amount, the fee is \$1,600.00. All City/State Project and Land Action Applications must pay public notice sign fees. All fees are subject to change.
3. **Project Narrative:** A detailed narrative describing the project.
4. **Plans:** All plans are to be drawn to scale and clearly show the items listed below:
 - a. Plat, site plan, floor plan and elevation views of existing and proposed structures and land;
 - b. Existing and proposed parking areas, including dimensions of the spaces, aisle width and driveway entrances;
 - c. Proposed traffic circulation within the site including access/egress points and traffic control devices;
 - d. Existing and proposed lighting (including cut sheets for each type of lighting);
 - e. Existing and proposed vegetation with location, area, height and type of plantings; and,
 - f. Existing physical features of the site (i.e. drainage, eagle trees, hazard areas, salmon streams, wetlands, etc.)

Document Format: All materials submitted as part of an application shall be submitted in either of the following formats:

1. Electronic copies in the following formats: .doc, .txt, .xls, .bmp, .pdf, .jpg, .gif, .xlm, .rtf (other formats may be preapproved by the Community Development Department).
2. Paper copies 11" X 17" or smaller (larger paper size may be preapproved by the Community Development Department).

Application Review & Hearing Procedure: Once the application is determined to be complete, the Community Development Department will initiate the review and scheduling of the application. This process includes:

Review: As part of the review process the Community Development Department will evaluate the application for consistency with all applicable City & Borough of Juneau codes and adopted plans. Depending on unique characteristics of the permit request the application may be required to be reviewed by other municipal boards and committees. Review comments may require the applicant to provide additional information, clarification, or submit modifications/alterations for the proposed project.

Hearing: All City/State Project Review Permit Applications must be reviewed by the Planning Commission. Once an application has been deemed complete and has been reviewed by all applicable parties the Community Development Department will schedule the requested permit for the next appropriate meeting. The Planning Commission will make a recommendation based on staff's analysis and forward it to the Assembly for final approval/denial.

INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED

CSP Review Narrative
for the
CBJ Water Utility's Cope Park Pump Station Replacement Project

The CBJ Water Utility operates a water pump station located at Cope Park. The pump station provides water to the higher elevation areas of downtown Juneau including the Highlands and Starr Hill neighborhoods. This pump station is nearing the end of its life and needs to be replaced/upgraded. A new pump station is to be constructed adjacent to the existing pump station while the existing station remains operational to ensure continuity of service. Once the new station is operational the old station will be decommissioned and the building demolished. This project includes construction of a new municipal water pump station and pump building with backup generator, flow meters, valves, pump and motor replacements, mechanical piping, electrical work, pressure sensors, lighting, variable frequency drives, instrumentation and controls; demolition of the existing pump station/building; new underground piping; and site work including grading, new curb and gutter and new paving.

SITE OF WORK. The site of the WORK is the Cope Park Pump Station located near the intersection of Calhoun Avenue and Cope Park Road in Juneau, Alaska.

The CONTRACTOR shall maintain vehicular traffic to Cope Park unless otherwise noted. A full road closure will be allowed during the suction line tie-in and demolition of the existing suction line tie-in. All road closures to be coordinated with the Engineer, JPD, CCFR and CBJ Parks and Recreation at least 48 hours in advance. During the WORK at least one lane with a minimum width of 9 feet shall be maintained. The CONTRACTOR shall maintain a continuous, unimpeded ADA pedestrian pathway through the Project corridor at all times.

Plans previously submitted for the building permit review contain all the information requested for CSP review.

COPE PARK PUMP STATION REPLACEMENT

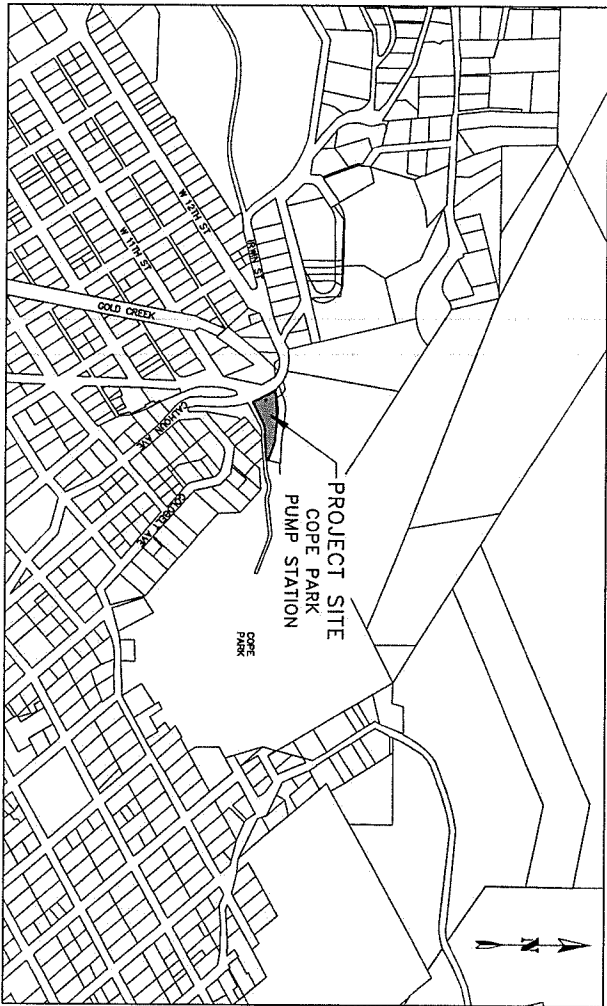
Revised For Code Compliance

CBJ PROJECT NO. BE25-317
CITY & BOROUGH OF JUNEAU, ALASKA

Approved
TAR 7/1/2025

JS

7/1/2025



PROJECT LOCATION MAP

NTS



NO.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

proHNS LLC
CERTIFICATE OF AUTHORIZATION #100002
DESIGNED BY: E. ROEMELING
CHECKED BY: L. CHAMBERS
2301 DUKE ST #201
JUNEAU, AK 99901
(907) 786-9939
www.prohns.com

CITY AND BOROUGH OF JUNEAU
ALASKA CAPITAL CITY
ENGINEERING & PUBLIC WORKS

COPE PARK PUMP
STATION REPLACEMENT
BE25-317

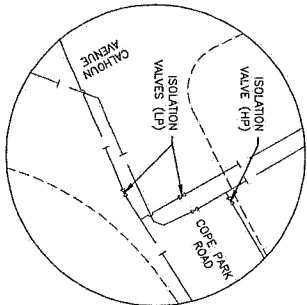
COVER SHEET
SHEET NUMBER
G-01

SHEET INDEX

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C-04	SALVAGE DETAILS
C-05	BUILDING LAYOUT PLAN
C-06	CIVIL SITE PLAN
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P-14	DIGITAL OUTPUTS
SURVEY	
L-01	SURVEY CONTROL SHEET

CONSTRUCTION SEQUENCING:

1. PHASE 1 – DEMO EXISTING SITE FEATURES
 - 1.1. REMOVE ALL ASPHALT PAVEMENT, CONCRETE SIDEWALK, CURB AND GUTTER, SEWER MANHOLE, ETC. DESIGNATED TO BE REMOVED.
 - 1.2. LOCATE AND PROTECT ALL FEATURES DESIGNATED TO REMAIN.
2. PHASE 2 – UNDERGROUND UTILITY INSTALLATION
 - 2.1. INSTALL NEW SUCTON AND TEMPORARY DISCHARGE LINES AND ISOLATION VALVES FOR NEW PUMP STATION. CLOSE VALVES AND SHUT LINES UP TO FLANGE ELEVATION ABOVE FT.
 - 2.2. INSTALL SUCTON AND DISCHARGE LINES FOR FLOOR DRAINS AND PRESSURE RELIEF VALVE.
 - 2.3. INSTALL SUCTON LINES FOR FLOOR DRAINS AND PRESSURE RELIEF VALVE.
3. PHASE 3 – SITE PREP AND BUILDING CONSTRUCTION
 - 3.1. GRADE SITE AND PERFORM EARTHWORK NECESSARY FOR BUILDING FOUNDATION INSTALLATION.
 - 3.2. CONSTRUCT BUILDING FOUNDATION AND PERFORM.
 - 3.3. POUR BUILDING FOUNDATION.
 - 3.4. COMPLETE BUILDING CONSTRUCTION.
4. PHASE 4 – MECHANICAL PUMPS/PIPING INSTALLATION
 - 4.1. INSTALL MECHANICAL COMPONENTS INCLUDING PIPING, VALVES, PUMPS, GENERATOR, AND INSTRUMENTATION PER THE DRAWINGS.
5. PHASE 5 – ELECTRICAL INSTALLATION
 - 5.1. DEMONSTRATE EXISTING ELECTRICAL SERVICE TO THE EXISTING 208V 3-PHASE SERVICE.
 - 5.2. INSTALL THE NEW ABOVE 3-PHASE AND 120/240V SERVICES. COORDINATE WITH AELAP TO EITHER REUSE THE EXISTING STREET LIGHTING METER ON THE POLE OR INSTALL A NEW METER MAIN ON THE NEW PUMP STATION BUILDING TO REUSE THE COPE PARK STREET LIGHTING METER. COVER IN PLACE OF THE METER.
 - 5.3. FEED STREET LIGHTING AND BATHROOM FROM SERVICE METER MOUNTED ON THE NEW PUMP STATION.
 - 5.4. PROVIDE TEMPORARY SCADA AS NEEDED.
 - 5.5. PROVIDE TEMPORARY SCADA AS NEEDED.
6. PHASE 6 – PUMP STATION COMMISSIONING
 - 6.1. PERFORM PUMP STATION SAMPLING, TESTING AND STARTUP PER THE PROJECT SPECIFICATIONS AND PERMITS.
7. PHASE 7 – DECOMMISSION EXISTING PUMP STATION
 - 7.1. ISOLATE THE EXISTING PUMP STATION, REMOVE 12" VALVES AND CONNECT TO EXISTING 16" HOPE WATER.
 - 7.2. INSTALL FINAL DISCHARGE LINE PIPING TO THE NEW PUMP STATION. DEMO OLD LINE TO THE EXISTING PUMP STATION.
8. PHASE 8 – DEMO EXISTING PUMP STATION
 - 8.1. DEMONSTRATE EXISTING PUMP STATION INCLUDING ALL ELECTRICAL, MECHANICAL, AND STRUCTURAL.
 - 8.2. SALVAGE EXISTING EQUIPMENT OUTLINED IN SPECIFICATION SECTION 2050 AND DELIVER TO CBJ.
9. PHASE 9 – SITE FEATURES AND GRADING
 - 9.1. MAKE ANY STRIPS AND PATCHES IN THE DRAWINGS.
 - 9.2. INSTALL NEW CURB AND CUTTER, CONCRETE SIDEWALK, ASPHALT PAVEMENT AND OTHER MISCELLANEOUS SITE FEATURES.
10. PHASE 10 – FINAL CLEANUP AND RESTORATION
 - 10.1. PERFORM ALL REMAINING ITEMS OF WORK PER THE DRAWINGS AND SPECIFICATIONS.



COPE PARK ROAD ISOLATION VALVE LOCATIONS NOTED ON SHEETS C-02 & C-08

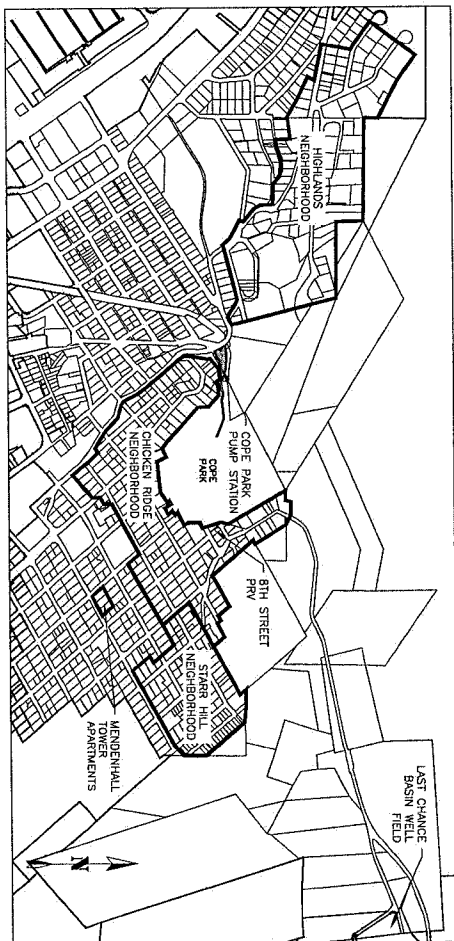
SHEET NOTES:

1. CONSTRUCTION SEQUENCE IS ONLY TO SERVE AS A GUIDE. CONTRACTOR RESPONSIBLE FOR DEVELOPING SEQUENCE PLAN PRIOR TO COMMENCING WORK. CONTRACTOR TO SUBMIT PLAN FOR ENGINEER APPROVAL. PRIOR TO CONSTRUCTION.
2. EXISTING PUMP STATION TO REMAIN OPERATIONAL THROUGHOUT PROJECT DURATION.
3. PERFORM ALL WORK PURSUANT TO NEC REQUIREMENTS. ENSURE PROPER GROUNDING TO TEMPORARY SYSTEM.
4. COORDINATE WITH AELAP ON SERVICE MODIFICATIONS.
5. CONTRACTORS TO COORDINATE WITH AELAP AND GET APPROVAL FROM CBJ. WATER DEPARTMENT PRIOR TO ANY POWER, SCADA OR WATER SHUTDOWNS. PUMP STATION MUST BE OPERATIONAL AT THE END OF EACH SHIFT.

PUMP STATION AND DISTRIBUTION SYSTEM OPERATIONS (EXISTING):

- LCB HIGH ELEVATION SYSTEM AVERAGE FLOW RATE* 90-200 gpm
- COPE PARK PUMP STATION INLET (SUCTION) PRESSURE* 67 PSI
- COPE PARK PUMP STATION OUTLET (DISCHARGE) PRESSURE* 118 PSI
- THE DOWNTOWN JUNEAU HIGH ELEVATION SYSTEM IS SUPPLIED FROM THE LAST CHANCE BASIN VIA WELL 3 AND THE MILL TUNNEL. DURING NORMAL OPERATIONS THE SYSTEM FLOWS THROUGH THE MILL TUNNEL, WHICH IS A GRAVITY FEED SYSTEM. DURING HIGH DEMAND FLOWS, THE MILL TUNNEL IS TAKEN OFFLINE AND THE SYSTEM IS SUPPLIED FROM THE STAR HILL TOWER APARTMENTS. THIS SYSTEM ALONE IS UNABLE TO PROVIDE EXTREME HIGH DEMAND FLOWS (FIRE FLOWS) FOR ALL OF THE HYDRANTS IN THE SYSTEM.
- THE COPE PARK PUMP STATION IS CURRENTLY PROGRAMMED TO OPERATE UNDER EXTREME HIGH DEMAND CONDITIONS AND PULS WATER FROM THE LOW ELEVATION SYSTEM INCREASING ITS PRESSURE AND SUPPLEMENTING THE HIGH ELEVATION SYSTEM FLOWS WHEN NEEDED.
- THE PUMPS ARE PROGRAMMED TO ALTERATE LEAD OPERATION AFTER EACH START AND ARE CONTROLLED BY PRESSURE SENSORS LOCATED WITHIN THE PUMP STATION.

*THESE ARE MEASURED VALUES FROM CBJ SCADA SYSTEM AND METERS.

CALHOUN AVENUE ISOLATION VALVE SCHEMATIC**DOWNTOWN JUNEAU HIGH ELEVATION SYSTEM**

NO.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

proHNS LLC
 CERTIFICATE OF AUTHORIZATION
 2021 JUNE 15, 2021
 10000 JUNE 15, 2021
 (897) 780-0000
 www.prohns.com



COPE PARK PUMP STATION REPLACEMENT

CONSTRUCTION SEQUENCING AND SYSTEM INFORMATION

SHEET NUMBER G-02

LEGEND

DESCRIPTION	EXISTING	REMOVE	PROPOSED
ASPHALT	EDGE OF ASPHALT		
BUILDING			
CONCRETE			
CURB AND GUTTER			
OVERHEAD ELECTRIC			
SANITARY SEWER PIPE			
SANITARY SEWER MANHOLE			
SAWCUT & MTE LIMITS			
SIGN			
STORM DRAIN CATCH BASIN			
STORM DRAIN PIPE			
UNDERGROUND ELECTRICAL			
UTILITY POLE			
UTILITY POLE WITH LUMINAIRE			
WATER LINE PIPE			
WATER VALVE BOX			

ABBREVIATIONS

CMP	CORRUGATED METAL PIPE
DIP	DUCTILE IRON PIPE
EA	EDGE OF ASPHALT
FF	FINISH FLOOR
HDPE	HIGH DENSITY POLYETHYLENE
MTE	MATCH TO EXISTING
NSF	NATIONAL SANITATION FOUNDATION
PVC	POLYVINYL CHLORIDE PIPE
TOA	TOP OF ASPHALT
TOC	TOP OF CONCRETE
TPC	TYPICAL

GENERAL NOTES

1. CBI ENGINEERING STANDARD DETAILS BOOK FOR CIVIL ENGINEERING PROJECTS AND SUBDIVISION IMPROVEMENTS FOURTH EDITION DATED AUGUST, 2011 AND CBI ENGINEERING STANDARD SPECIFICATIONS DATED DECEMBER, 2011, MADE A PART OF THIS CONTRACT, INCLUDING ALL ERRATA (NOS. 1-16) AND CURRENT REVISIONS AS APPLICABLE.
2. CALL 968-1333 BEFORE YOU DIG FOR UNDERGROUND POWER, TELEPHONE AND CABLE. CALL 811 ALASKA DIALING SERVICE FOR THE LOCATION OF ALL UTILITIES. THE PLANS WERE DERIVED FROM CBI AS-BUILTS AND FIELD LOCATES. THE ACTUAL LOCATION OF UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING THE UTILITIES THROUGHOUT THE CONSTRUCTION OF THE PROJECT. ANY DAMAGE TO THE UNDERGROUND UTILITIES DURING CONSTRUCTION SHALL BE PAID FOR BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
3. THE ESTIMATED TOTAL AREA OF DISTURBANCE RESULTING FROM THIS PROJECT IS APPROXIMATELY 0.1 ACRES.
4. THE ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) HAS IDENTIFIED SEVERAL CONTAMINATED SITES WITHIN 1,500 FEET OF THE PROJECT LIMITS THAT ARE CURRENTLY IN "ACTIVE" OR "INSTITUTIONAL CONTROL" STATUS. THERE ARE NO SITES IN THE IMMEDIATE PROJECT AREA. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSULT DEC AND OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK.
5. PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY.
6. CONTRACTOR SHALL ENSURE ACCESS TO COPE PARK AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY CBI PARKS AND RECREATION (957-5226) OF PROPOSED CLOSURES OF COPE PARK ROAD FOR APPROVAL AT LEAST 48 HOURS PRIOR TO CLOSURE. DURING CONTRACTOR WORKING HOURS AT LEAST ONE LANE WITH A MINIMUM WIDTH OF 2 FEET SHALL BE MAINTAINED. TWO-WAY TRAFFIC (18" WIDE DRIVING SURFACE) SHALL BE MAINTAINED WHENEVER THE CONTRACTOR IS NOT ON-SITE, UNLESS APPROVED BY THE ENGINEER. A FULL ROAD CLOSURE SHALL BE MAINTAINED AT ALL TIMES.
7. THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT, OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY, WITHOUT THE WRITTEN APPROVAL OF THE PROPERTY OWNER.
8. THE CONTRACTOR SHALL NOTIFY CBI WATER UTILITIES (DON VANNIK AT 723-4973) OF PROPOSED WATER SERVICE INTERRUPTION AND SUBMIT THE "WATER SERVICE SPECIAL USE PERMIT" TO CBI WATER UTILITIES SUPERINTENDENT FOR APPROVAL. AT LEAST 48 HOURS PRIOR TO SHUTDOWN OR FLUSHING OF MAINLINE WATER PIPE, NO WATER SERVICE INTERRUPTION MAY PROCEED UNTIL THIS APPROVAL IS OBTAINED.
9. PRIOR TO INTERRUPTING WATER SERVICE THE CONTRACTOR SHALL VERIFY THAT THE PUMPS, PIPES AND FITTINGS FOR THE WORK ARE ON SITE.
10. ALL ITEMS AND MATERIALS DESIGNATED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE, UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
11. IF CONTAMINATED SOILS ARE ENCOUNTERED DURING THE CONSTRUCTION PROCESS CONTACT ALASKA DEC CONTAMINATED SITES PROGRAM IMMEDIATELY.

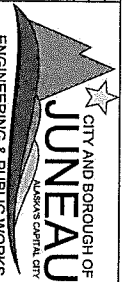


No.	DATE	RECORD OF REVISIONS
		DESCRIPTION
		BY

proHNS LLC
CERTIFICATE OF AUTHORIZATION
#10085

DESIGNED BY: E. ROEMELING
CHECKED BY: L. CHAMBERS

2201 DUNN ST #201
JUNEAU, AK 99801
(907) 984-0404
www.prohns.com

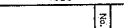


COPE PARK PUMP
STATION REPLACEMENT

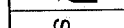
LEGEND
ABBREVIATIONS &
GENERAL NOTES

C-01

SHEET NUMBER

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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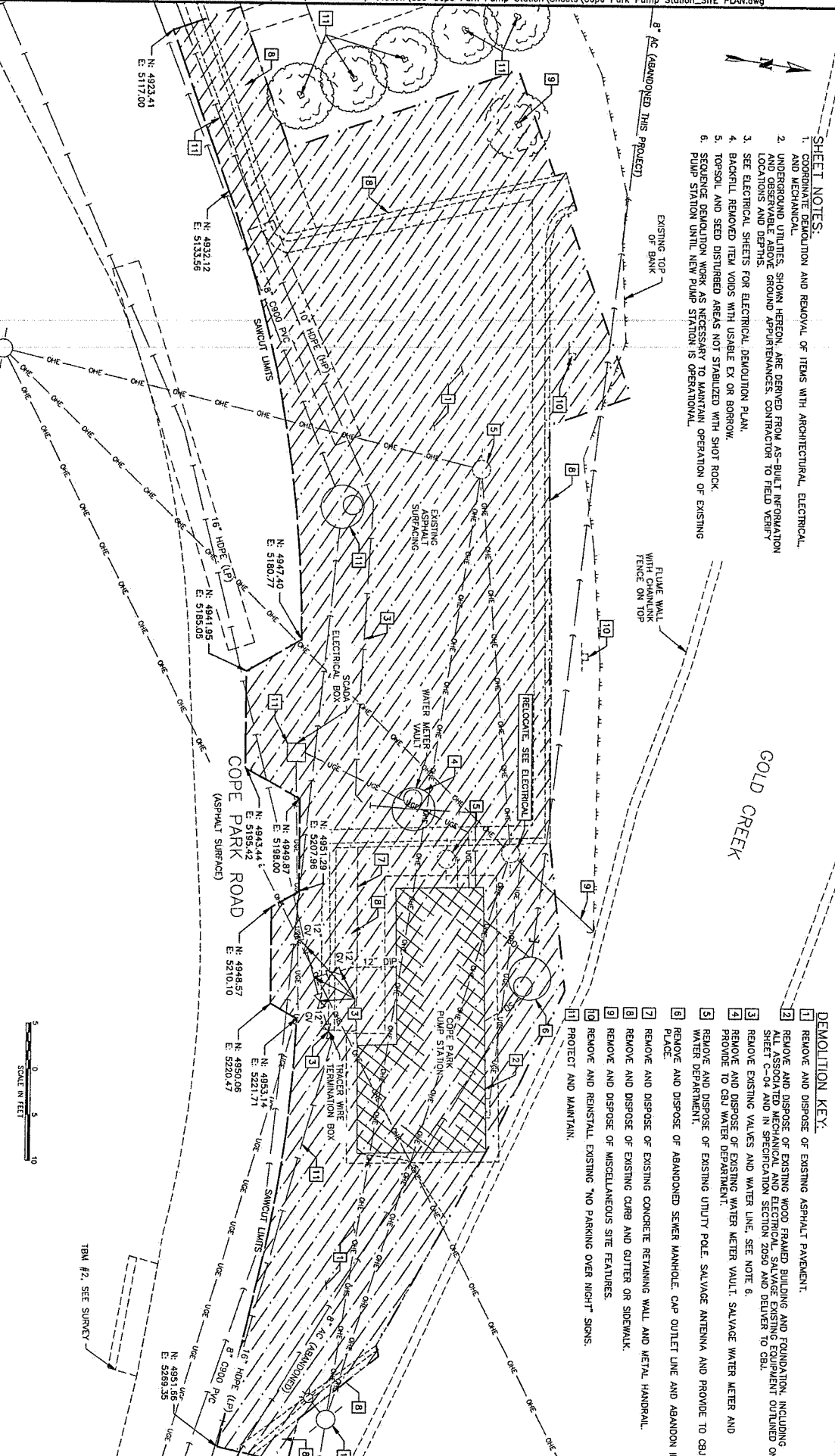
No.	DATE	RECORD OF REVISIONS	BY

proHNS LLC
 CERTIFICATE OF AUTHORIZATION #100832
 2201 DUNN ST #201
 JUNEAU AK 99801
 (907) 784-0444
 info@prohns.com
 www.prohns.com

CITY AND BOROUGH OF JUNEAU
 ENGINEERING & PUBLIC WORKS

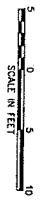
COPE PARK PUMP STATION REPLACEMENT
 BE25-317

SITE DEMOLITION PLAN
 SHEET NUMBER C-03

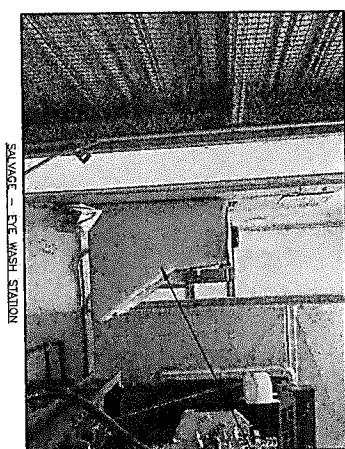


- SHEET NOTES:**
1. CORRELATE DEMOLITION AND REMOVAL OF ITEMS WITH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL.
 2. UNDERGROUND UTILITIES SHOWN HEREON, ARE DERIVED FROM AS-BUILT INFORMATION AND FIELD SURVEY. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS.
 3. SEE ELECTRICAL SHEETS FOR ELECTRICAL DEMOLITION PLAN.
 4. BACKFILL REMOVED ITEM Voids WITH USABLE EX OR BORROW.
 5. TOPSOIL AND SEED DISTURBED AREAS NOT STABILIZED WITH SHOT ROCK.
 6. SEQUENCE DEMOLITION WORK AS NECESSARY TO MAINTAIN OPERATION OF EXISTING PUMP STATION UNTIL NEW PUMP STATION IS OPERATIONAL.

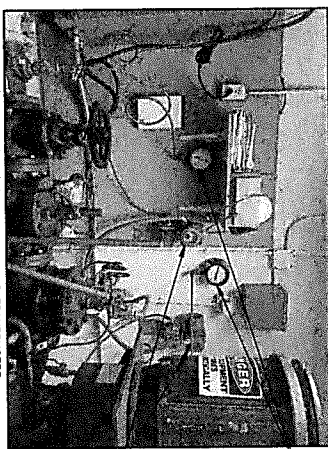
- DEMOLITION KEY:**
- 1 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.
 - 2 REMOVE AND DISPOSE OF EXISTING WOOD FRAMED BUILDING AND FOUNDATION, INCLUDING ALL ASSOCIATED MECHANICAL AND ELECTRICAL. SALVAGE EXISTING EQUIPMENT OUTLINED ON SHEET C-04 AND IN SPECIFICATION SECTION 2090 AND DELIVER TO CBJ.
 - 3 REMOVE EXISTING VALVES AND WATER LINE, SEE NOTE 6.
 - 4 REMOVE AND DISPOSE OF EXISTING WATER METER VAULT, SALVAGE WATER METER AND PROVIDE TO CBJ WATER DEPARTMENT.
 - 5 REMOVE AND DISPOSE OF EXISTING UTILITY POLE, SALVAGE ANTENNA AND PROVIDE TO CBJ WATER DEPARTMENT.
 - 6 REMOVE AND DISPOSE OF ABANDONED SEWER MANHOLE, CAP OUTLET LINE AND ABANDON IN PLACE.
 - 7 REMOVE AND DISPOSE OF EXISTING CONCRETE RETAINING WALL AND METAL HANDRAIL.
 - 8 REMOVE AND DISPOSE OF EXISTING CURB AND CUTTER OR SIDEWALK.
 - 9 REMOVE AND DISPOSE OF MISCELLANEOUS SITE FEATURES.
 - 10 REMOVE AND REINSTALL EXISTING "NO PARKING OVER NIGHT" SIGNS.
 - 11 PROTECT AND MAINTAIN.



		proHNS LLC CERTIFICATE OF AUTHORIZATION 10082				COPE PARK PUMP STATION REPLACEMENT BE25-317		SHEET NUMBER C-04	
No.	DATE	RECORD OF REVISIONS	DESCRIPTION	BY					
					DRAWN BY: E. ROCKELING DESIGNED BY: E. CHAMBERS CHECKED BY: J. CHAMBERS 201 QUINN ST. #201 JUNEAU, AK 99901 (907) 785-4054 www.prohns.com				

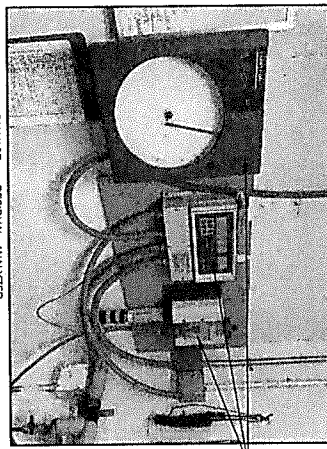


EYE WASH STATION



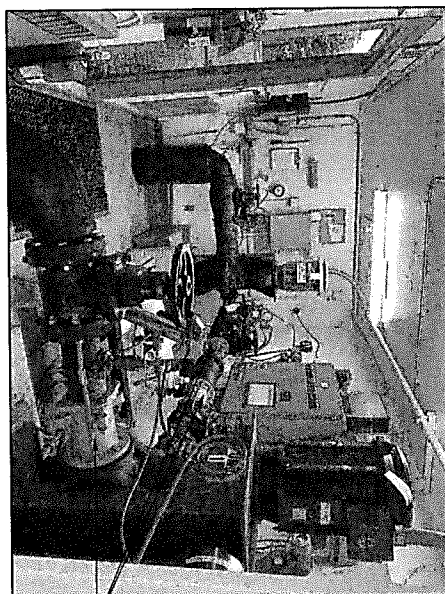
SALVAGE - PRESSURE GAUGES AND TRANSDUCERS

PRESSURE TRANSDUCERS (X5)



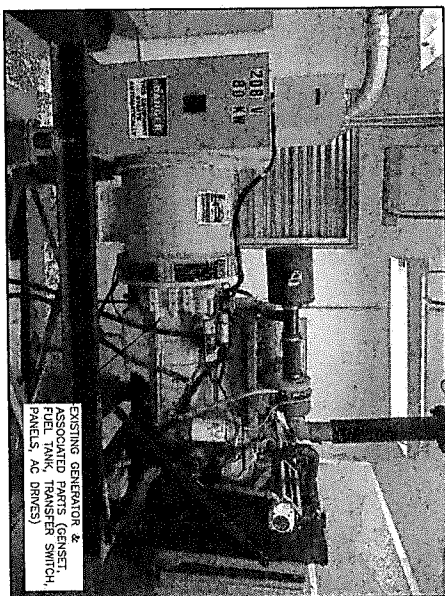
SALVAGE - RESIDUAL ANALYZER

RESIDUAL ANALYZER



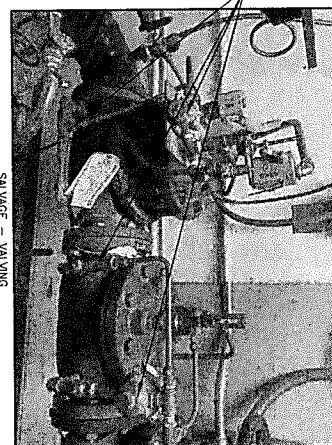
EXISTING PUMP STATION - MECHANICAL ROOM

SHEET NOTES:
 1. SALVAGE EXISTING EQUIPMENT CALLED OUT ON THIS SHEET AND DELIVER TO CBJ.



EXISTING PUMP STATION - GENERATOR ROOM

EXISTING GENERATOR & ASSOCIATED PARTS (GENSET, FUEL TANK, TRANSFER SWITCH, PANELS, AC DRIVES)



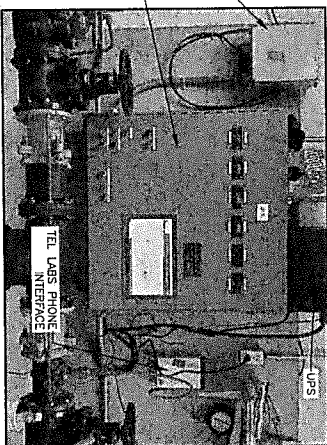
SALVAGE - VALVING

ALL BRASS AND PILOT CONTROLS FROM PUMP CONTROL VALVES AND FLOW CONTROL VALVES (X4)

FLANGE COUPLING ADAPTERS 6" (X2) AND 8" (X2)

FIBER JUNCTION BOX

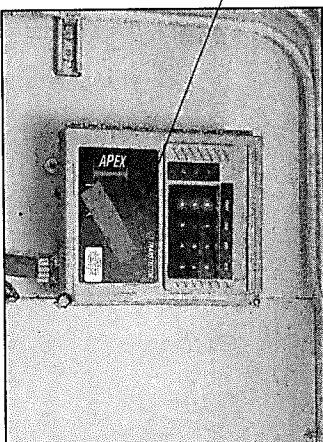
INTERIOR COMPONENTS OF PLC CABINET



SALVAGE - CONTROL PANEL

UPS

SURGE PROTECTOR



SALVAGE - SURGE PROTECTOR

SALVAGE DETAILS



NO.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

proHNS LLC
 CERTIFICATE OF AUTHORIZATION
 #100622

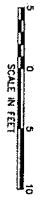
DESIGNED BY: E. ROEMELING
 CHECKED BY: L. CHAMBERS
 2011 JUNEAU ST #201
 JUNEAU AK 99801
 (907) 784-0041
 www.proHNS.com

CITY AND BOROUGH OF JUNEAU
 ALASKA CAPITAL CITY
 ENGINEERING & PUBLIC WORKS

COPE PARK PUMP STATION REPLACEMENT

BUILDING LAYOUT PLAN

C-05



TBM #2, SEE SURVEY

COPE PARK ROAD
(ASPHALT SURFACE)

SAWCUT LIMITS

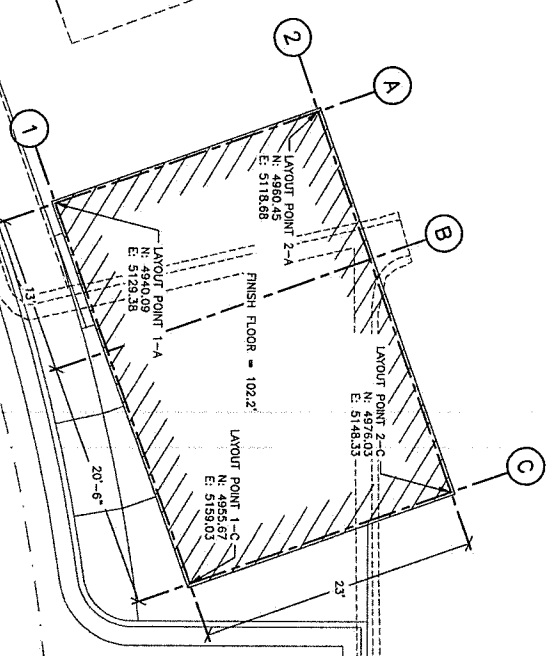
EXISTING CONCRETE CURB AND GUTTER

ORIGINAL PUMP STATION LOCATION

GOLD CREEK



SHEET NOTES:
 1. SEE SURVEY CONTROL DIAGRAM FOR TEMPORARY BENCHMARKS AND SURVEY CONTROL POINTS





NO.	DATE	RECORD OF AMENDMENTS	BY
		DESCRIPTION	

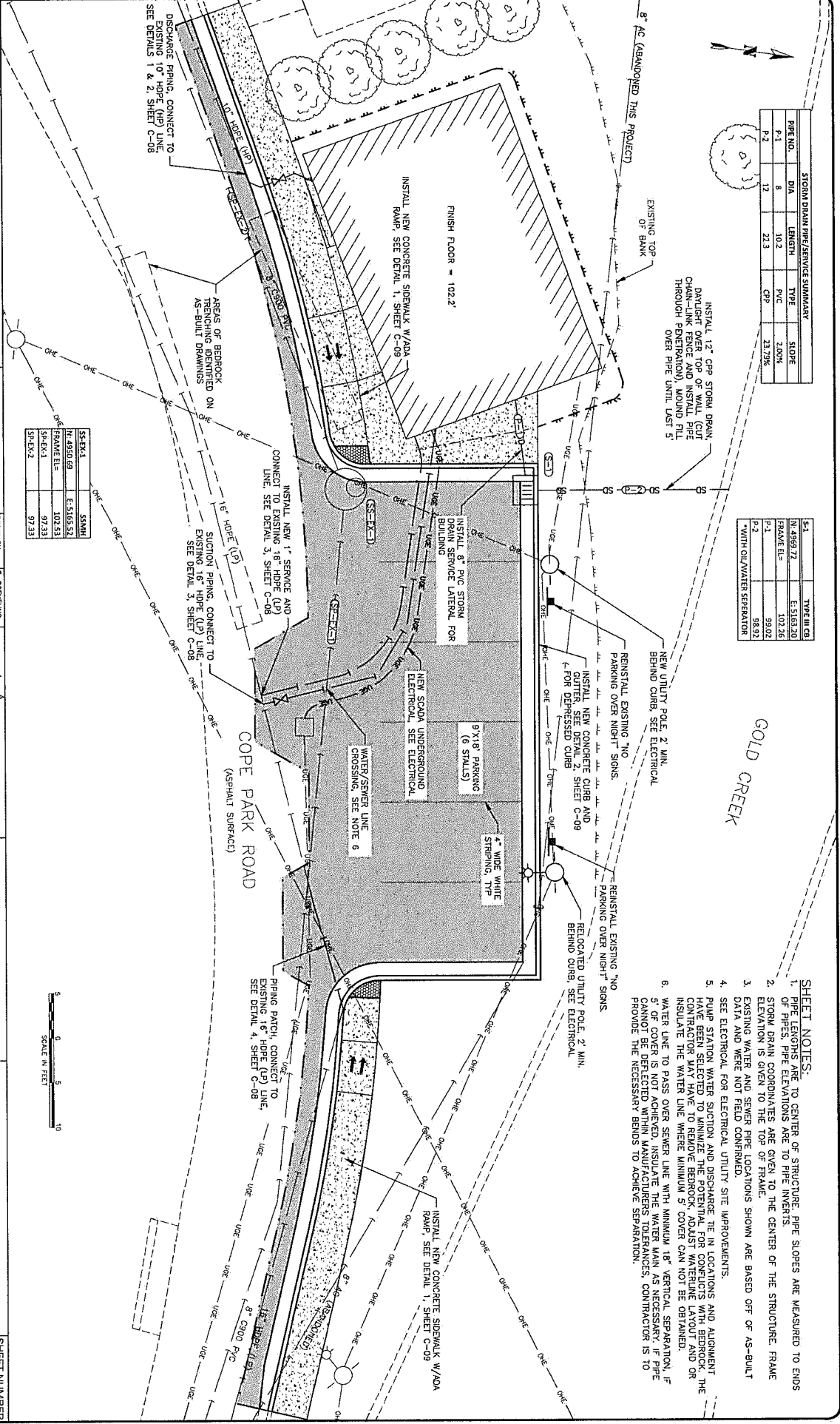
proHNS LLC
CENTRIFUGAL PUMP REPAIR
2201 DUNA STREET
JUNEAU, ALASKA 99801
907.795.4000
www.prohns.com

DESIGNED BY: E. ROEMELING
CHECKED BY: L. CHAMBERS

CITY AND BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY
ENGINEERING & PUBLIC WORKS

COPE PARK PUMP STATION REPLACEMENT
BE25-317

CIVIL SITE PLAN
SHEET NUMBER C-06



STORM DRAIN PIPE/SERVICE SUMMARY

PIPE NO.	DIA	LENGTH	TYPE	SLOPE
P-1	8"	10.2'	PVC	2.00%
P-2	12"	23.3'	CPV	23.79%

TYPE III CB

N-1989.72	E-5163.20
FRAME EL=	102.36
P-1	99.02
P-2	98.92

*WITH OIL/WATER SEPARATOR

- SHEET NOTES:**
- PIPE LENGTHS ARE TO CENTER OF STRUCTURE. PIPE SLOPES ARE MEASURED TO ENDS OF PIPES. PIPE ELEVATIONS ARE TO PIPE INVERTS.
 - STORM DRAIN COORDINATES ARE GIVEN TO THE CENTER OF THE STRUCTURE. FRAME ELEVATION IS GIVEN TO THE TOP OF FRAME.
 - EXISTING WATER AND SEWER PIPE LOCATIONS SHOWN ARE BASED OFF OF AS-BUILT DATA AND WERE NOT FIELD CONFIRMED.
 - SEE ELECTRICAL FOR ELECTRICAL UTILITY SITE IMPROVEMENTS.
 - PUMP STATION WATER SUCTION AND DISCHARGE TIE IN LOCATIONS AND ALIGNMENT HAVE BEEN SELECTED TO MINIMIZE THE POTENTIAL FOR CONFLICTS WITH BEDROCK. THE CONTRACTOR MAY HAVE TO REMOVE BEDROCK, ADJUST WATERLINE LAYOUT AND OR INSULATE THE WATER LINE WHERE MINIMUM 5' COVER CAN NOT BE OBTAINED.
 - WATER LINE TO PASS OVER SEWER LINE WITH MINIMUM 18" VERTICAL SEPARATION. IF 5' OF COVER IS NOT ACHIEVED, INSULATE THE WATER MAIN AS NECESSARY. IF PIPE CANNOT BE DEFLECTED WITHIN MANUFACTURER'S TOLERANCES, CONTRACTOR IS TO PROVIDE THE NECESSARY BENDS TO ACHIEVE SEPARATION.



CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEV.	REMARKS
21	4949.26	5155.65	102.21	TOC
22	4923.41	5117.00	100.25	E/M/TE
23	4932.12	5133.56	101.28	E/M/TE
24	4942.18	5157.95	102.32	E/M/TE
25	4947.40	5180.77	103.15	E/M/TE
26	4941.95	5185.05	103.36	E/M/TE
27	4943.44	5195.42	103.52	E/M/TE
28	4949.87	5196.00	103.53	E/M/TE
29	4951.29	5207.96	103.58	E/M/TE
30	4948.57	5210.10	103.72	E/M/TE
31	4950.06	5220.47	103.81	E/M/TE
32	4953.14	5221.71	103.66	E/M/TE
33	4953.39	5248.58	104.37	E/M/TE
34	4951.66	5189.35	104.57	E/M/TE
35	4962.64	5261.38	102.64	TOA
36	4955.19	5199.20	102.83	TOA



NO.	DATE	REVISION OR REVISIONS
1		DESCRIPTION
2		DESCRIPTION
3		DESCRIPTION
4		DESCRIPTION



DESIGNED BY: E. ROEMELING	CHECKED BY: L. CHAMBERS
DRAWN BY: E. ROEMELING	DATE: 06/17/2025



COPE PARK PUMP
STATION REPLACEMENT

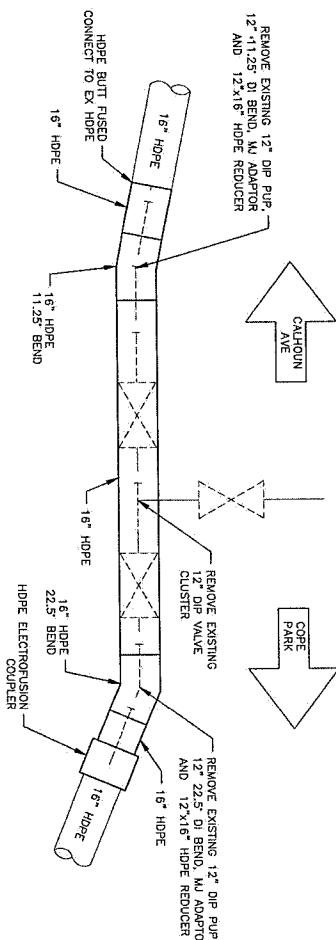
CIVIL DETAILS - 1

C-08

- DETAIL 4/C-08 NOTES:
- THIS CONNECTION WILL REQUIRE ISOLATING THE 16" HOPE (UP) WATER MAIN. THE SYSTEM CAN BE ISOLATED BY CLOSING TWO VALVES LOCATED NEAR THE CALHOUN AVENUE INTERSECTION (SEE ISOLATION VALVE SCHEMATIC, SHEET G-02) AND THE VALVE AT THE END OF THE CONCRETE SIGNAL.
 - SPLICE TRACER WIRE BETWEEN 16" HOPE LINES.

WATERLINE CONNECTION DETAIL 4 VALVE CLUSTER REMOVAL

SCALE: NOT TO SCALE



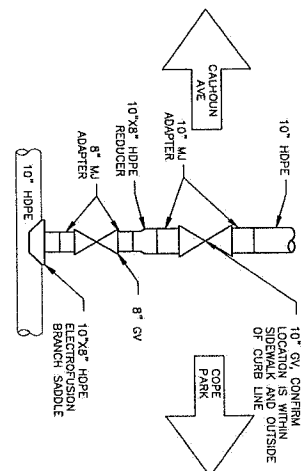
- WATER DETAIL NOTES:
- SPRAY OR SWAB DISINFECT ALL COMPONENTS TO COME INTO CONTACT WITH POTABLE WATER PER AWWA STANDARDS AND SECTION 02801 SPECIFICATIONS.
 - PRIOR TO COMMISSIONING THE PUMP STATION THE CONTRACTOR SHALL PERFORM BACTERIOLOGICAL TESTING PER SECTION 02801 SPECIFICATIONS.
 - ONCE THIS SECTION OF WATER LINE IS BACK IN SERVICE A VISUAL INSPECTION OF THE JOINTS FOR LEAKS SHALL BE MADE.
 - BE D AND BACK FILL WATER LINE CONNECTION PER SECTION 02801, STD. DETAIL 125 AND DETAIL 9 SHEET C-08.
 - ALL ELECTROFUSION BRANCH SADDLES AND SERVICE SADDLES TO BE PRESSURE TESTED AFTER ELECTROFUSION AND PRIOR TO TAPPING.
 - CONTRACTOR TO COORDINATE WITH CBJ WATER DEPARTMENT TO PERFORM BRANCH TAPS.

DETAIL 1/C-08 NOTES:

- HOT TAP EXISTING 10" HOPE (HP) WATER MAIN, CONFIRM THAT ALL REQUIRED PARTS ARE COMPATIBLE WITH CBJ WATER DEPARTMENT'S PIPE TAPPING MACHINE.

1 WATERLINE CONNECTION DETAIL TEMPORARY DISCHARGE LINE

SCALE: NOT TO SCALE

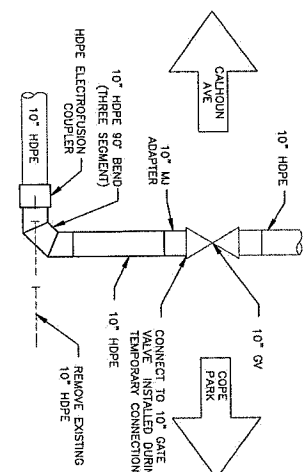


DETAIL 2/C-08 NOTES:

- THIS CONNECTION WILL REQUIRE ISOLATING THE 10" HOPE (HP) WATER MAIN. THE SYSTEM CAN BE ISOLATED BY CLOSING THE VALVE LOCATED NEAR THE CALHOUN AVENUE INTERSECTION (SEE ISOLATION VALVE SCHEMATIC, SHEET G-02).
- FINAL CONNECTION TO BE MADE AFTER NEW PUMP STATION HAS BEEN COMMISSIONED.

2 WATERLINE CONNECTION DETAIL FINAL DISCHARGE LINE

SCALE: NOT TO SCALE

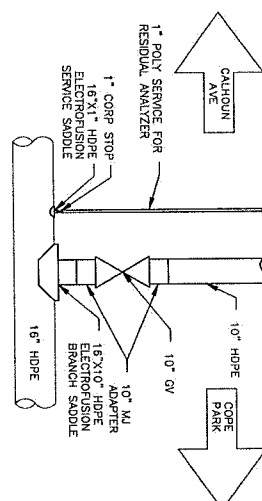


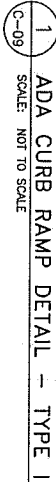
DETAIL 3/C-08 NOTES:

- TAP EXISTING 16" HOPE (UP) WATER MAIN, CONFIRM THAT ALL REQUIRED PARTS ARE COMPATIBLE WITH CBJ WATER DEPARTMENT PIPE TAPPING MACHINE.
- A HOT TAP IS NOT REQUIRED FOR THIS CONNECTION. THE SYSTEM CAN BE ISOLATED BY CLOSING TWO VALVES LOCATED NEAR THE CALHOUN AVENUE INTERSECTION (SEE ISOLATION VALVE SCHEMATIC, SHEET G-02) AND THE WESTERN MOST VALVE OF THE THREE VALVE CLUSTER LOCATED IN FRONT OF THE EXISTING PUMP STATION.

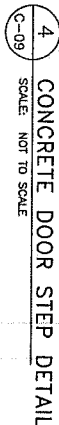
3 WATERLINE CONNECTION DETAIL FINAL SUCTION LINE

SCALE: NOT TO SCALE

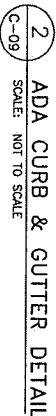




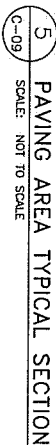
- A. CONSTRUCT RAMP SLOPES AT 7.70% NOMINAL GRADE. OR FLATTER. RAMP SLOPES MAY BE INCREASED TO A MAXIMUM 8.33% WHEN THE CONDITION WARRANT IT. 1.50% CROSS SLOPE (MAAXMUM 2.00%).
- B. LANDING AREA - 4'-4" MIN DIMENSIONS AND 1.50% SLOPE IN ALL DIRECTIONS (MAAXMUM 2.00%). GRADE TO DRAIN TOWARD GUTTER FLOW LINE.
- C. 2'X4' DETECTABLE WARNING TIE. MODIFY AS NECESSARY TO MATCH RADIIUS.
- D. ALL CONCRETE SHALL BE 6" IN DEPTH.



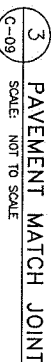
1. CONCRETE TO MEET THE REQUIREMENTS OF CBJ STANDARD DETAIL 111A



1. ADA CURB GUTTER DETAIL SHALL BE USED ONLY WHERE SPECIFIED ON THE PLANS. SEE CBI STANDARD DETAIL 106 FOR ADDITIONAL INFORMATION.
2. SEE CBI DETAIL 111A FOR FULL HEIGHT TYPE I CURB & GUTTER.
3. USE A SMOOTH TRANSITION BETWEEN FULL HEIGHT CURB AND FULLY DERESSED CURB.



1. COMPACT ≥ 1 BASE COURSE TO MINIMUM 95% OF MODIFIED PROCTOR DENSITY (ASTM D1557)
2. PROOF ROLL BOTTOM OF SUBJECT EXCAVATION COMPACTOR SHALL BE PERFORMED USING A MINIMUM 10-TON SELF-PROPELLED VIBRATORY COMPACTOR. A MINIMUM OF THREE PROOF ROLLS SHALL BE REQUIRED. THE PROOF ROLL SHALL BE MADE OVER THE SUBJECT SOILS AND AS APPROVED BY THE INSPECTOR.
3. AT SITE OF EXISTING PUMP STATION DOME VOIDS LEFT BY BUILDING FOUNDATION TO BE FILLED WITH USABLE EX OR BORROW TO BOTTOM OF STRUCTURAL SECTION.



1. FINAL SAWCUT OF EXISTING ASPHALT SHALL NOT BE MADE UNTIL 24 HOURS PRIOR TO PAVING.



CIVIL DETAILS - 2	SHEET NUMBER
C-09	

[illegible]

CONCRETE	LOCATION	28-DAY STRENGTH	MAX. W/C RATIO	ENTRACEMENT
EXTERIOR CONCRETE (EXPOSED TO FREEZING)		4,000 P.S.I.	0.45	65 +/- 15
INTERIOR SLABS (NOT EXPOSED TO FREEZING)		4,000 P.S.I.	0.45	35
FOOTINGS, FOUNDATION WALLS, GRADE BEAMS		4,000 P.S.I.	0.45	65 +/- 15
REINFORCING	APPLICATION	TYPE	COMMENTS	
FABRICATED AND STRAIGHT BARS		ASTM A615, GRADE 60	SEE LAP SPlice SCHEDULE	
FIELD BENT		ASTM A615, GRADE 60	FOR LAP LENGTHS	
STRUCTURAL STEEL	APPLICATION	TYPE	GRADE	F _y
PLATE & BAR		ASTM A572	GRADE 50	50 KSI
ANCHOR RODS		ASTM A325	GRADE 36	36 KSI
WOOD	APPLICATION	SPECIES	GRADE	COMMENTS
DIMENSION	STRUCTURAL WALL STUDS	HEM-FR	NO. 2	
LOUVER	HEM-FR		NO. 2	
PLATES AND LEDGERS	HEM-FR		NO. 1	
SWAY BEAMS	DOUG. FIR-LARCH		NO. 1	
POSTS	DOUG. FIR-LARCH		NO. 1	
BLOCKING, WISC TRAILING	HEM-FR		STD & BETTER	
CLUD-LAMINATED BEAMS	ALLOWABLE STRESSSES - P.S.I.			
	SPECIES COMB. ZONE	F _b TENSION ZONE	F _v COMB. ZONE	F _c COMP. ZONE
	DF V4	2400	150	650
	GRADE	MIN. THICK	SPAWN RATING	EXPOSURE
WOOD PANEL SHEATHING	APPLICATION			
ROOF FLOORS	APA RATED	23/32"	48/24	EXPOSURE 1
	APA RATED	23/32"	48/24	EXPOSURE 1
SHEER WALLS	APA RATED	15/32"	32/16	EXPOSURE 1

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CALCULATION AND DRAWINGS TO DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED BY THE EOR AND THEN SUBMITTED TO THE BUILDING OFFICIAL.

STAMPED BY AN ALABAMA REGISTERED PROFESSIONAL ENGINEER FOR THE FOLLOWING CONTRACTOR CATEGORY ITEMS:

- SEISMIC RESTRAINT OF ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS
- BRACE RAIL DESIGN COMPONENTS AND ATTACHMENTS
- GUTTER/ROOF ANCHORAGE AND RESTRAINT TO CONCRETE SLAB & ITS COMPONENT.

CRITERIA	DESCRIPTION	VALUE	COMMENTS
CODE	IBC 2021		AS AMENDED BY THE STATE OF ALASKA & THE CITY & BOROUGH OF JUNEAU
SEISMIC	ANALYSIS PROCEDURE SEISMIC DESIGN CATEGORY RISK CATEGORY SEISMIC IMPORTANCE FACTOR, I_E SITE COEFFICIENT SEISMIC RESPONSE ACCELERATION, S_A 1.05 SPECTRAL RESPONSE COEFFICIENT, S_DS 0.25 SPECTRAL RESPONSE COEFFICIENT, S_M1 1.05 SPECTRAL RESPONSE COEFFICIENT, S_M2 STRUCTURAL SYSTEM RESPONSE MODIFICATION FACTOR, R_E	D II ELF 0 1.0 0.5346 0.3599 0.4889 0.4889 6.5	PER ASCE 7-16 LIGHT FRAME WALLS WITH WOOD STRUCTURAL PANELS
WIND	BASIC WIND SPEED (3 SECOND GUST) RISK CATEGORY DESIGN WIND SPEED INTERNAL PRESSURE COEFFICIENT, C_P01	143 MPH II 11 ±0.18	ENCLOSED BUILDING
ROOF - LIVE LOADS	GROUND SNOW LOAD SNOW LOAD EXPOSURE FACTOR SNOW LOAD COEFFICIENT SNOW INTERFERENCE FACTOR FLAT ROOF SNOW LOAD SNOW DRIFT LOADS	70 PSF 1.0 1.2 1.1 1.0 65 PSF PER ASCE 7-16	PER G3J
LIVE LOADS	5.4 LB ON GRADE ROOF LIVE LOAD	125 PSF 20 PSF	
FOUNDATIONS	ALLOWABLE SOIL BEARING PRESSURE	2000 PSF	PRELIMINARY BEARING PRESSURE PER IBC TABLE 1806.2

RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



ENGINEERS, INC.

CERTIFICATE OF AUTHORIZATION
CAN: AECC250

ED BY:	MGM
ED BY:	MGM
ND ENGINEERS, INC.	
0 GLACIER HWY STE 100	
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CITY AND BOROUGH OF
JUNEAU
ALASKA'S CAPITAL CITY
ENGINEERING & PUBLIC WORKS

COPE PARK
PUMP STATION
REPLACEMENT
BE25-317

STRUCTURAL
GENERAL NOTES

SHEET NUMBER

[illegible]

The logo consists of three stylized letters 'P', 'N', and 'D' in a bold, sans-serif font, each enclosed within a square border. Below the logo, the company name 'ENGINEERS, INC.' is written in a large, bold, sans-serif font. At the bottom, the text 'CERTIFICATE OF AUTHORIZATION' is written in a smaller, bold, sans-serif font.



**COPE PARK
PUMP STATION
REPLACEMENT**

STANDARD DETAILS AND SPECIAL INSPECTIONS

SHEET NUMBER
S-02

SLAB REINFORCING SCHEDULE

SLAB REINFORCING SCHEDULE			
THICKNESS	TYPE	REINFORCING	CONCRETE COVER
6"	ON GRADE	#4 @ 12" O.C. EACH WAY	MIN-DEPTH
4"	HOUSKEEPING	#4 @ 12" O.C. EACH WAY	MIN-DEPTH

ACI STANDARD 90° HOOK DIMENSIONS

BAR SIZE	#3	#4	#5	#6	#7	#8
MIN. BEND DIAM. (D)	2 1/4"	3"	3 3/4"	4 1/2"	5 1/4"	6"
EXTENSION LENGTH (L)	6"	8"	10"	12"	14"	16"

The diagram shows a 90-degree bend in a bar. The angle of the bend is labeled with the Greek letter alpha (α). The length of the extension from the start of the bend to the end of the bar is labeled with the letter L.

NOTE: REFERENCE ACI 318-05 SEC. 7.1 & 12.5.4

1. ABSORPTIONS

LAP SPLICES

BAR SIZE	#3	#4	#5	#6	#7	#8
CLASS B SPUCE	28"	37"	47"	56"	81"	93"

NOTE: INCREASE TABULATED LAP LENGTH BY 20% FOR BUNDLES OF 3 BARS

BEINERBING N CARAUGELOVER

REINFORCING CLEARANCE/COVER

EXPOSURE CONDITION	MAN COVER	TOLERANCE*
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	-3/8" +1"
EXPOSED TO EARTH OR WEATHER	1-1/2"	-1/4" +1/2"
#3 AND SMALLER BARS:		
#5 AND LARGER BARS:	2"	-1/4" +1/2"
NOT EXPOSED TO EARTH, WEATHER OR IN CONTACT WITH GROUND:	3/4"	-1/4" +3/8"
TIES AND STRIPPINGS	1-3/4"	-1/4" +1/2"

NOTES: "-" INDICATES TOLERANCE DECREASE TOWARDS MEMBER FACE. "+" INDICATES AWAY FROM MEMBER FACE.

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE

VERIFICATION AND INSPECTION TASK	NECESSITY OF INSPECTION	REFERENCE FOR CRITERIA
		REF. STANDARD (B), REFERENCE
1 INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	PERIODIC	3.5, 7.1, 7.7 1910.4
2 INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1709.2.2, ITEM 2b	PERIODIC	ANSI 4.4, AQ 316, 3.5.2
3 INSPECTION OF ANCHORS CAST IN CONCRETE TO BE SURE THAT THE ANCHORS ARE BEING PLACED ON WHERE STRENGTH DESIGN IS USED	PERIODIC	ACI 318: 8.1.3, 21.2.8 1908.5, 1909.3
4 INSPECTION OF ANCHORS POST-TENSIONED IN HANDPOURED CONCRETE MEMBERS	PERIODIC	ACI 318: 3.8.2, 21.2.8 1909.1
5 VERIFY USE OF REQUIRED MAX DESIGN	PERIODIC	ACI 318: 4.1, 5.2-5.4 1904.3, 1910.3
6 AT THE TIME THE FRESH CONCRETE IS SAMPLED TO FURNISH SPECIMENS FOR STRENGTH TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	CONTINUOUS	ASTM C122 ASTM C131 ACI 5.8, 3.6 1910.6, 1910.7
7 INSPECTION OF CONCRETE PLACEMENT AND CURE PROCEDURES	CONTINUOUS	ACI 318: 5.9, 3.16 1910.8
8 INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TECHNIQUES	PERIODIC	5.11-5.15 1910.9
9 SPECIFIED FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	PERIODIC	ACI 318: 6.11

REQUIRED INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REMARKS
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	PERIODIC	
2. VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	PERIODIC	
3. PERFORM CLASSIFICATION AND TESTING OF FILL MATERIALS	PERIODIC	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND COMPACTION OF COMPACTED SOIL	CONTINUOUS	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBTAIN SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	

STATEMENT OF SPECIAL INSPECTIONS

THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL EMPLOYED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT.

SPECIAL INSPECTOR QUALIFICATIONS.
THE SPECIAL INSPECTOR SHALL PRE-

OFFICIAL, DEMONSTRATING THEIR COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING.

INSPECTION TASKS:

INSPECTION TASKS ARE LISTED IN THE ATTACHED TABLES AND IN THE 2021 EDITION OF THE IBC CHAPTER 17.

FABRICATOR APPROVAL:
SPECIAL INSPECTIONS:

[illegible]

REPORT REQUIREMENTS:
REPORTS SHALL BE CO

[illegible]

STRUCTURAL OBSERVATIONS

THE OWNER SHALL NOT BE RESPONSIBLE FOR THE DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS AS REQUIRED PER IBC CH 1704.6

STRUCTURAL GENERAL NOTES

FOUNDATION HAS BEEN DESIGNED WITH AN ALLOWABLE BEARING PRESSURE OF 2,000 PSF BASED UPON THE ANTICIPATION OF ENCOUNTERING TYPE 4 SOILS (SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, AND CLAYEY GRAVEL) AS DEFINED BY TABLE 1806.2 IN THE IBC. AT LIMIT OF FOUNDATION, FOUNDATIONS SHALL BEAR ON COMPACTED BASE COURSE OVER COMPACTED NATIVE MATERIAL OR STRUCTURAL FILL.

CONTRACTOR SHALL VERIFY CONDITIONS AT THE LIMIT OF EXCAVATION. SHOULD ANY OBSTACLES, GRADES, OR UNEXPECTED CONDITIONS BE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE OWNER. CONTRACTOR SHALL REMOVE SUCH OBSTACLES, GRADES, OR CONDITIONS IN ACCORDANCE WITH WELL-SORTED SANDY GRAVEL AND PLACE IN LIFTS OF LAYER THICKNESS NOT GREATER THAN 6 INCHES AND COMPACT WITH A MINIMUM LEVEL OF EFFORT OF 6 PASSES WITH A VIBRATORY DOUBLE DRUM ROLLER OR PLATE COMPACTOR WITH A MINIMUM PAINTING OF 10,000 POUNDS. CONTRACTOR SHALL NOTIFY THE EOR IF CONDITIONS AT THE LIMIT OF EXCAVATION VARY FOR THE SLOLS NOTED ABOVE.

CONTRACTOR SHALL EXCAVATE 30" BELOW FINAL AT-GRADE ELEVATION AND PLACE NON-FROST SUSCEPTIBLE FILL. IN-2" MATERIAL IS ACCEPTABLE IF FOUND TO BE NON-FROST SUSCEPTIBLE. IF IN-SITU MATERIAL IS NOT ACCEPTABLE, CONTRACTOR SHALL EXCAVATE TO A DEPTH OF 30" BELOW FINAL AT-GRADE ELEVATION AND PLACE SOLS OR FILL MATERIAL WITH LESS THAN 6% OF WATER PASSING #200 SIEVE IN ACCORDANCE WITH ASTM D222 OR OTHER NON-FROST SUSCEPTIBLE MATERIALS. MATERIALS SHALL BE APPROVED BY THE ENGINEER. CLASSIFICATION OF FROST SUSCEPTIBILITY OF SOIL SHALL BE DETERMINED BY THE ENGINEER. SEE PLANS FOR LIMITS OF OVER-EXCAVATION FOR PRELIMINARY LISTED BELOW.

AS-BUILT DRAWINGS CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS ON SITE, MODIFIED TO REFLECT ALL DESIGN CHANGES TO THE ORIGINAL DRAWING SET.

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS, OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.



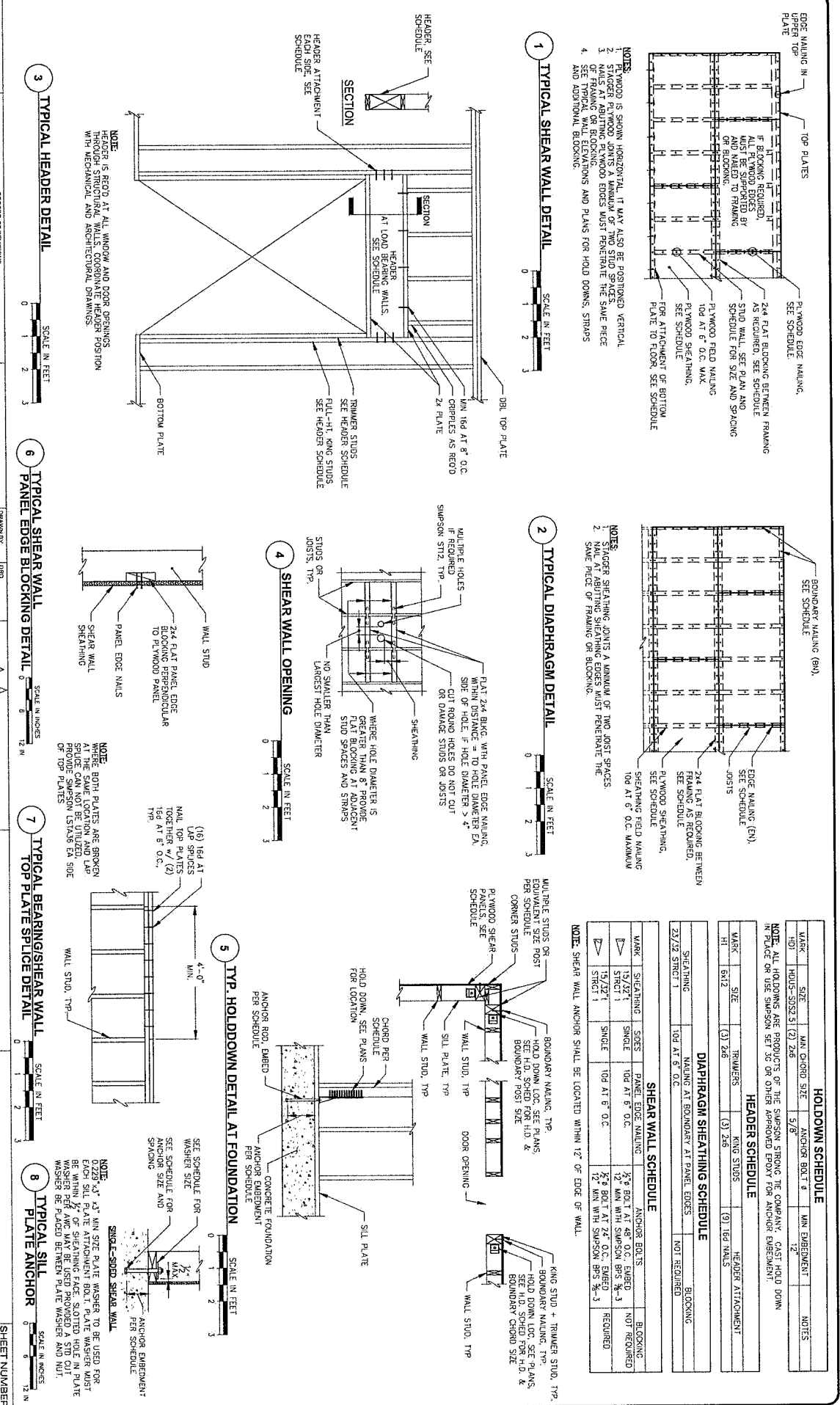
NO.	DATE	RECORD OF REVISIONS
1		DESCRIPTION
2		BY

DESIGNED BY: PN	LONG
CHECKED BY: ND	LONG
PND ENGINEERS, INC. 3900 GLASSBORO AVE. STE. 100 GLASSBORO, NJ 07033 (907) 566-0831 www.pndengineers.com	
CENTRAL OFFICE OF ENGINEERING 6 AM, 10/25/25	
PND 232014	



COPE PARK
PUMP STATION
REPLACEMENT
BE26-317

STANDARD DETAILS
S-03





NO.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

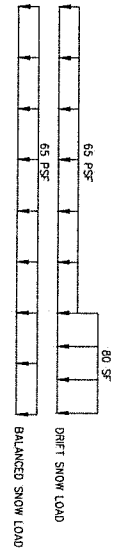
P N D
ENGINEERS, INC.
 CERTIFICATE OF AUTHORIZATION
 CAN. REC250
 DRAWN BY: **LDH**
 DESIGNED BY: **LDH**
 CHECKED BY: **LDH**
 8980 OLD ACORN HWY. STE. 100
 JUNEAU, AK 99801
 www.pndengineers.com
 PND #222014

CITY AND BOROUGH OF JUNEAU
 JUNEAU CAPITAL CITY
 ENGINEERING & PUBLIC WORKS

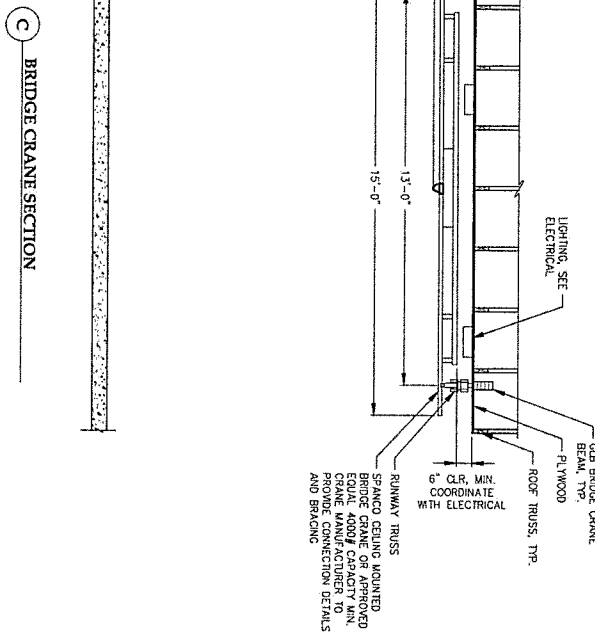
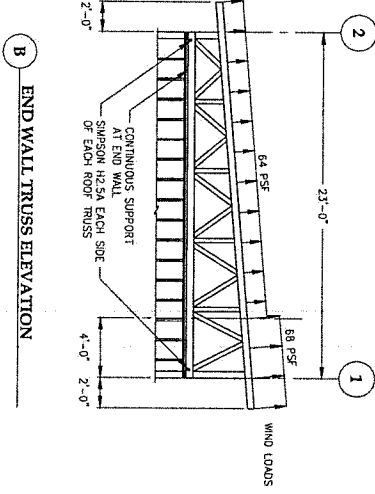
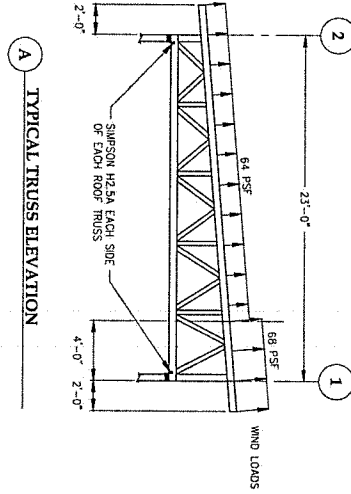
COPE PARK PUMP STATION REPLACEMENT
 BE26-317

ROOF TRUSS LOADING DIAGRAM AND BRIDGE CRANE

SHEET NUMBER
S-04



- NOTES:**
- 1) WIND LOADS ARE UTMATE (UPRD) MULTIPLY BY 0.6 FOR SERVICE (ASD) LOADS.
 - 2) SNOW LOAD APPLIES TO ALL TRUSSES.
 - 3) TRUSS TOP CHORD DEAD LOAD = 15 PSF. ADD ADDITIONAL DEAD LOAD FOR OVERTRAWING TRUSSES WHERE APPLICABLE.
 - 4) TRUSS BOTTOM CHORD DEAD LOAD = 10 PSF.
 - 5) TRUSS BOTTOM CHORD LIVE LOAD = 20 PSF UNO IN SECTION 4.121 AND 4.122 OF ASCE 7-16.
 - 6) TRUSS BRACING PER MANUFACTURER





NO.	DATE	RECORD OF REVISIONS
		DESCRIPTION
		BY

PND ENGINEERS, INC.
 CERTIFICATE OF AUTHORIZATION
 STATE OF ALASKA
 LICENSE NO. 617025

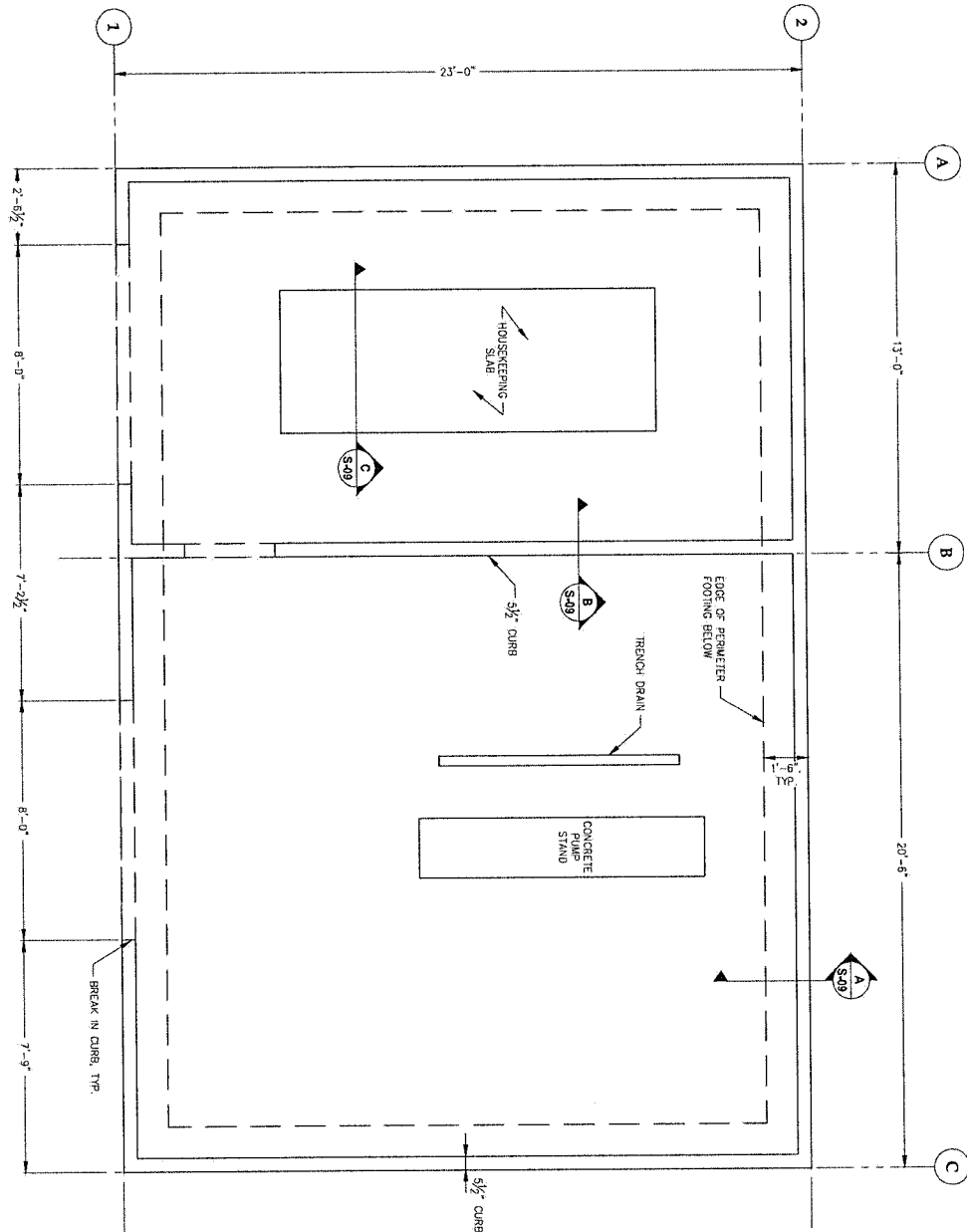
DESIGNED BY: **MDH**
 CHECKED BY: **MDH**
 PND ENGINEERS, INC.
 6300 GLADWIN AVE. STE. 100
 ANCHORAGE, ALASKA 99503
 (907) 566-0833
 www.pndengineers.com
 PND #232014



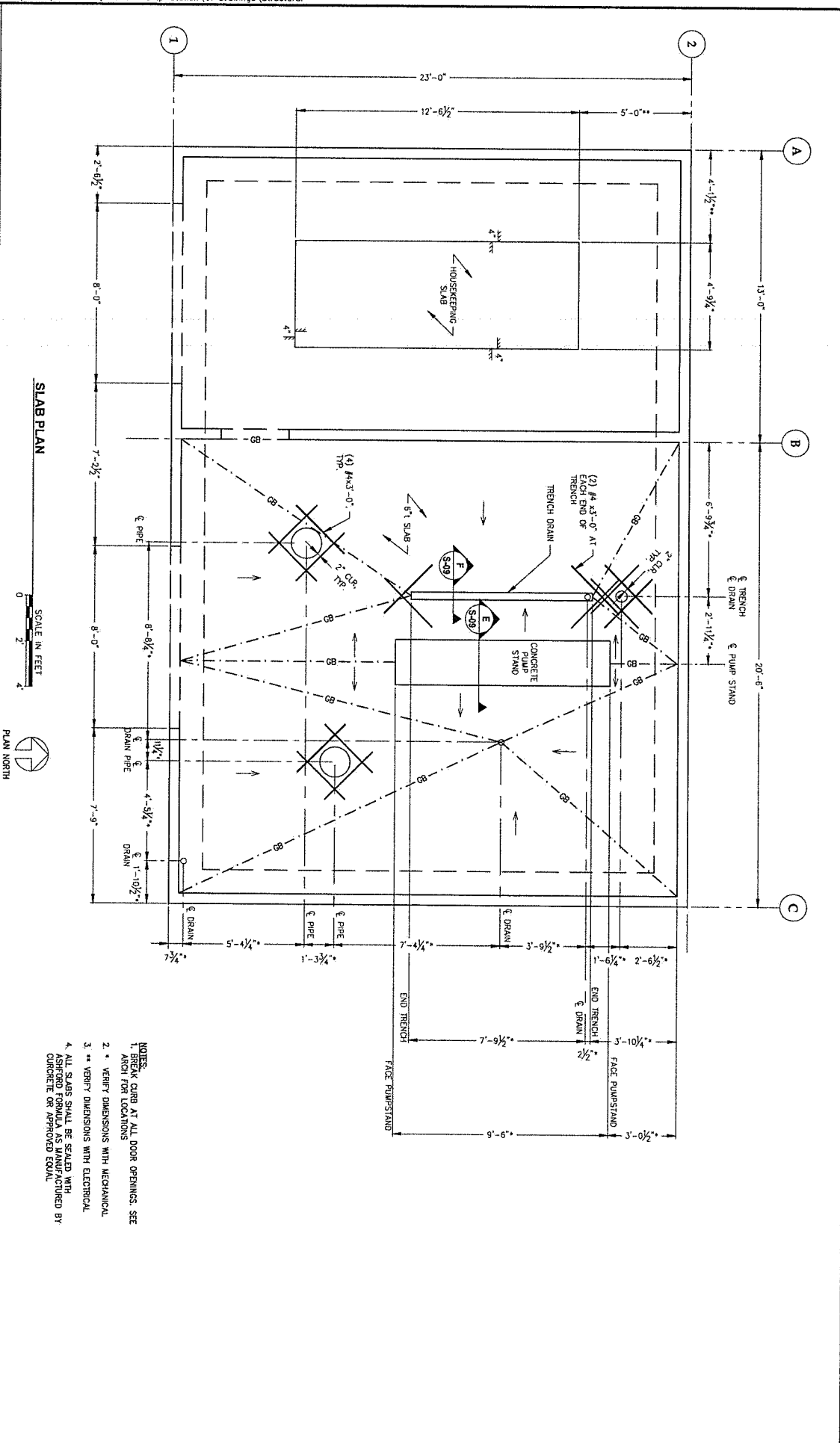
**COPE PARK
PUMP STATION
REPLACEMENT**
 BE26-317

FOUNDATION PLAN
 SHEET NUMBER
S-05

FOUNDATION PLAN



NOTES:
 1. BREAK CURB AT ALL DOOR OPENINGS.
 SEE ARCH FOR LOCATIONS





NO.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

PND ENGINEERS, INC.
 5305 JUNEAU AVENUE
 JUNEAU, ALASKA 99801
 (907) 586-0033
 www.pndengineers.com

DESIGNED BY: PND
 CHECKED BY: MHN
 DRAWN BY: DND

GEOMETRIC SURVEILLANCE
 CIVIL/MECHANICAL
 PND 232014

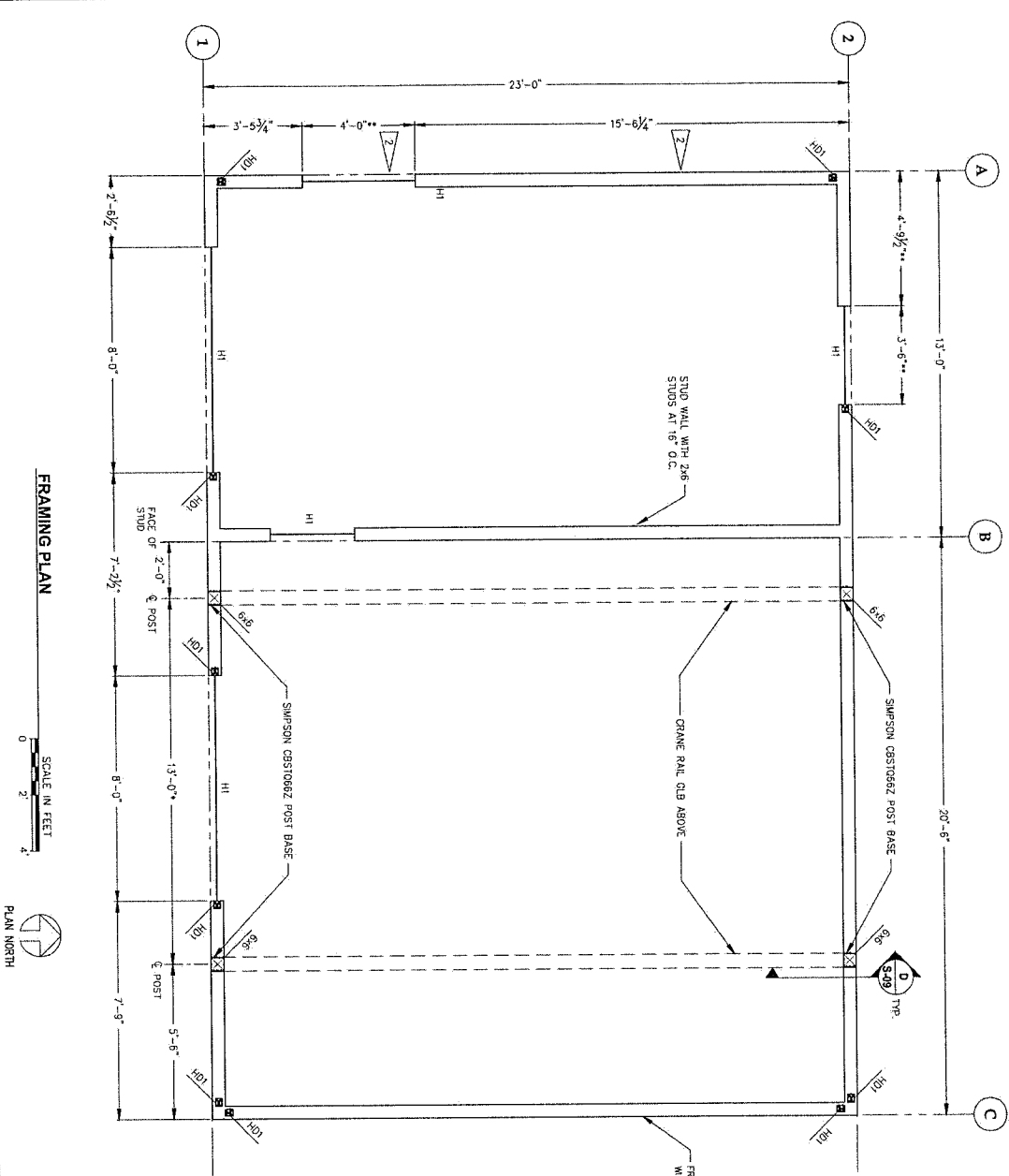


**COPE PARK PUMP STATION
 REPLACEMENT**

BE26-317

FRAMING PLAN

SHEET NUMBER
S-07



- NOTES:**
1. INDICATES SHEARWALL TYPE, SEE SCHEDULE ON S-03
 2. ALL SHEARWALLS TO BE U.N.O.
 3. CONTRACTOR TO VERIFY CRANE LOCATION DIMENSIONS
 4. FIELD VERIFY WITH BRIDGE CRANE MANUFACTURER
 5. COORDINATE WITH ELECTRICAL FOR LOUVER DIMENSIONS AND LOCATIONS



NO.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

P N D
ENGINEERS, INC.
 CERTIFICATE OF AUTHORIZATION
 C.A.N. #002250
 P.D. #222714

DESIGNED BY: **MAH**
 CHECKED BY: **MAH**
 JUNEAU, AK 99801
 www.pndengineers.com



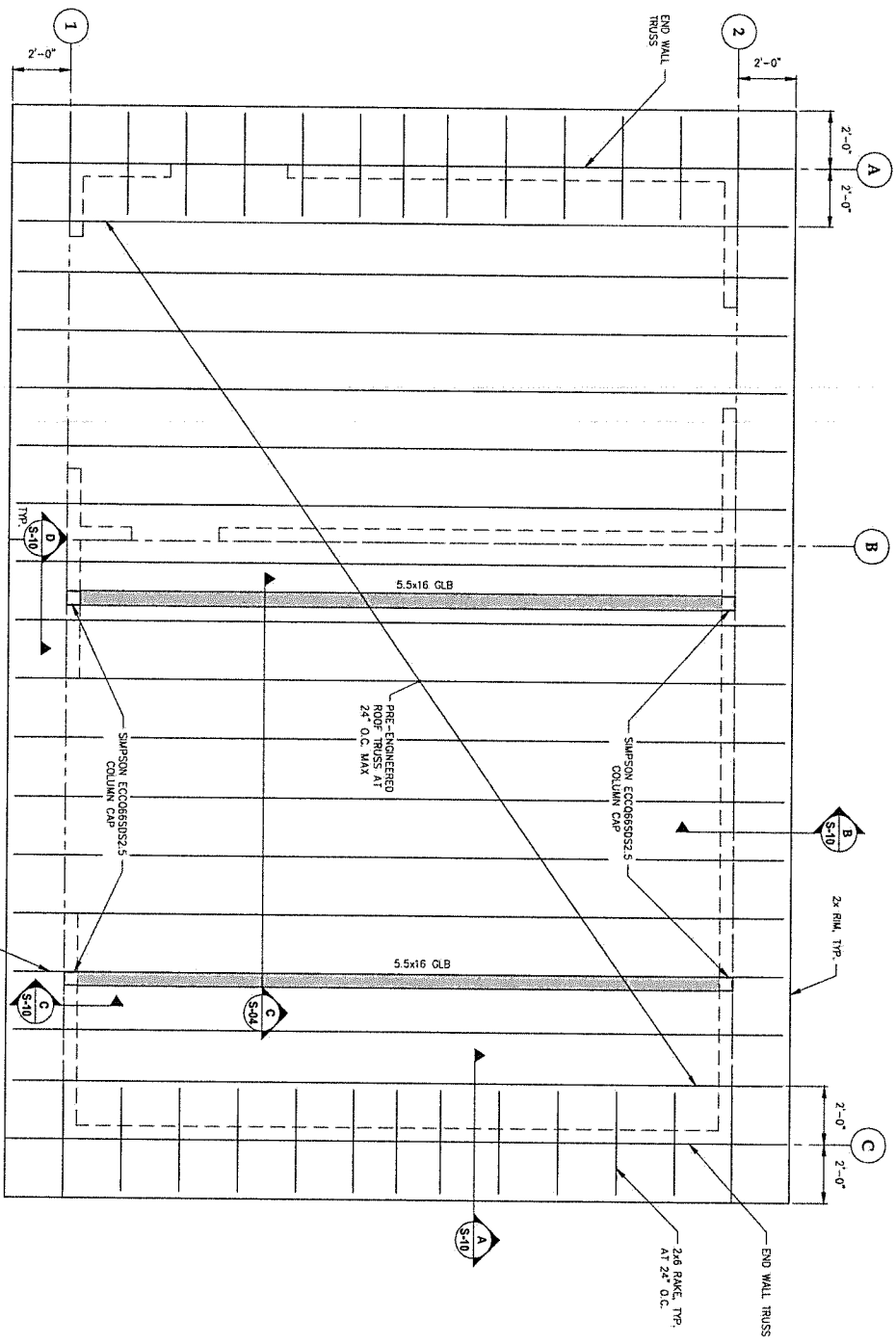
**COPE PARK
 PUMP STATION
 REPLACEMENT**
 BE25-317

**ROOF FRAMING
 PLAN**
 SHEET NUMBER
S-08

ROOF FRAMING PLAN



ADJUST TRUSS AS REQUIRED TO
 MAINTAIN 24" MAX SPACING
 TRUSS AS NECESSARY TO
 MAINTAIN 24" MAX SPACING





RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION
BY		

P N D
ENGINEERS, INC.
CERTIFICATE OF AUTHORIZATION
C.A.N. #20230

DESIGNED BY: MSH
CHECKED BY: MSH
PAID ENGINEER, INC.
9550 GILBERT HWY. STE. 100
DENVER, CO 80231
(807) 584-0831
www.pndengineers.com
PND 232014

CITY AND BOROUGH OF JUNEAU
ALASKA CAPITAL CITY
ENGINEERING & PUBLIC WORKS

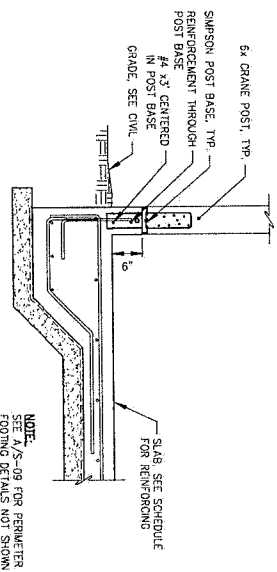
COPE PARK
PUMP STATION
PUMP REPLACEMENT
BE26-317

FOUNDATION
DETAILS
S-09

SHEET NUMBER

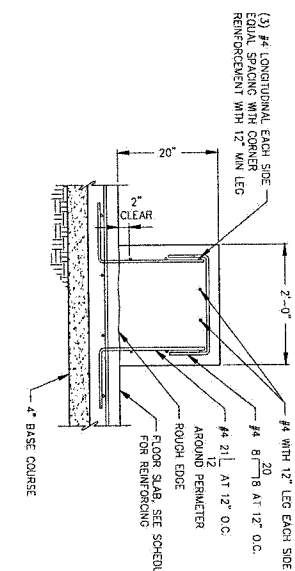
D TYPICAL CRANE POST DETAIL

SCALE IN INCHES
0 12 24



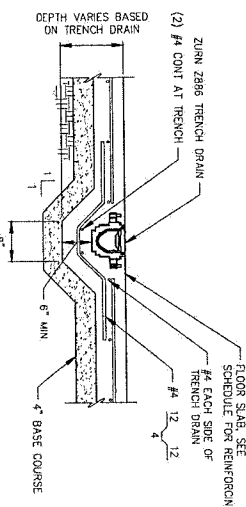
E TYPICAL PUMP PAD SECTION

SCALE IN INCHES
0 12 24



F TRENCH DRAIN SECTION

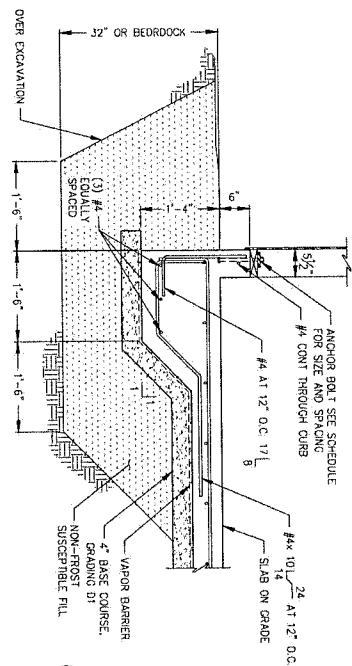
SCALE IN INCHES
0 12 24



A TYPICAL PERIMETER FOOTING SLAB EDGE

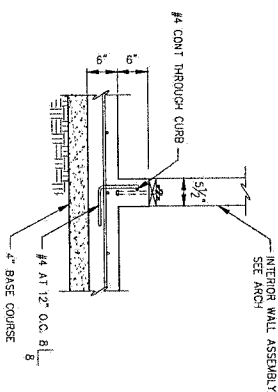
SCALE IN INCHES
0 12 24

NOTE: OVER EXCAVATE PER DETAIL AROUND PERIMETER



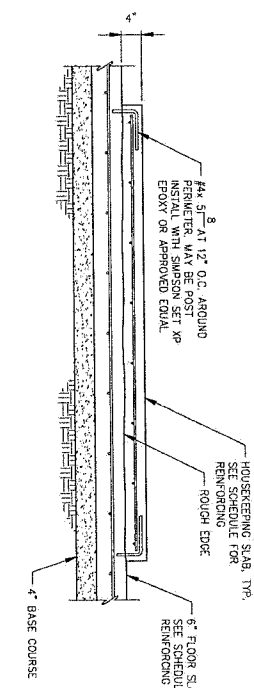
B TYPICAL SECTION AT INTERIOR CURB

SCALE IN INCHES
0 12 24



C TYPICAL SECTION AT HOUSEKEEPING PAD

SCALE IN INCHES
0 12 24





No.	DATE	RECORD OF REVISIONS

P N D
ENGINEERS, INC.
 CERTIFICATE OF AUTHORIZATION
 C.A.N. #002250
 P.N.D. #222514

DESIGNED BY: **MMH**
 CHECKED BY: **MMH**
 5180 G. LORAIN AVE. STE. 100
 JARVIS, NY 13041
 WWW.ENRINC.COM

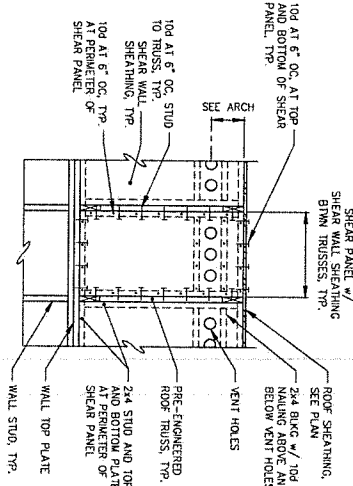


**COPE PARK
 PUMP STATION
 REPLACEMENT**

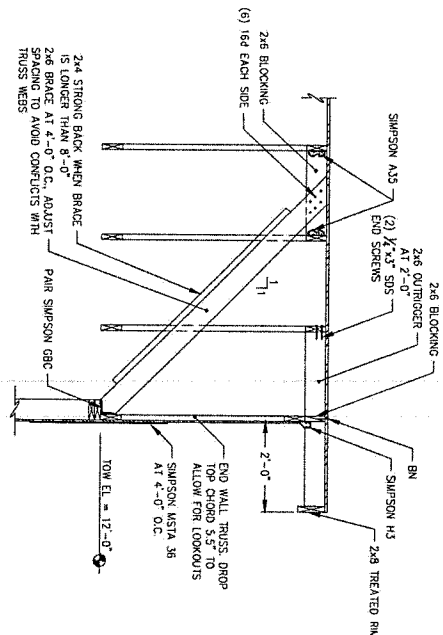
FRAMING DETAILS

S-10

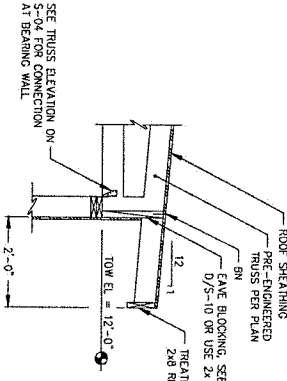
D SHEAR PANEL ELEVATION



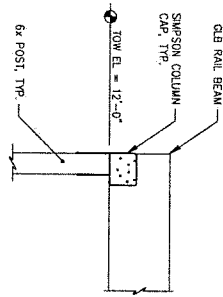
A GABLE END



B TYPICAL EAVE SECTION



C RAIL CRANE POST SECTION





RECORD OF REVISIONS	
NO.	DATE

Jensen Yorba Wall Inc.
CERTIFICATE OF AUTHORIZATION
C.A.N. - ACC0137

DESIGNED BY: JEN
CHECKED BY: JEN
DATE: 10/17/2005
FNO #24039



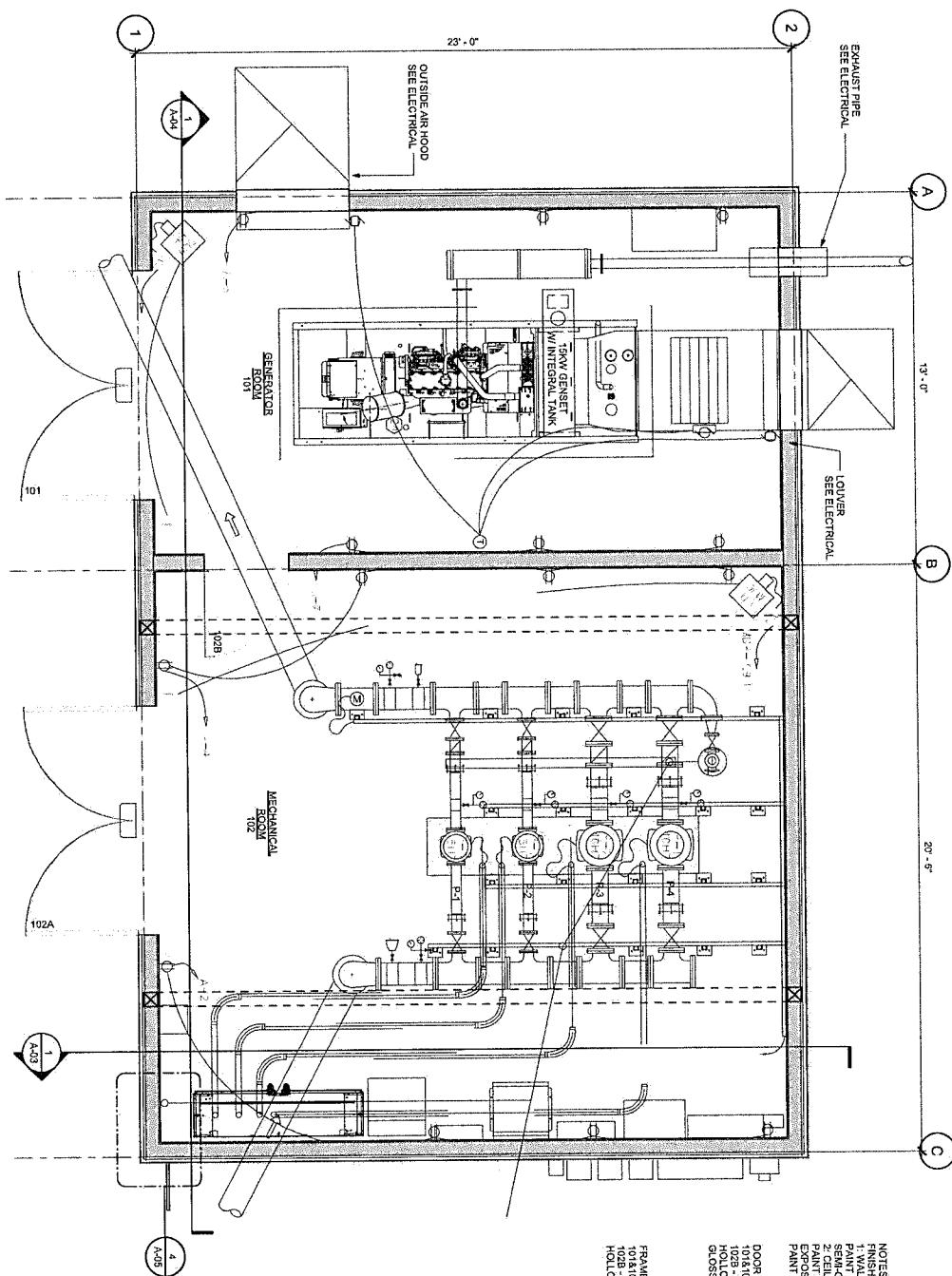
**COPE PARK
PUMP STATION
REPLACEMENT
BE25-317**

FLOOR PLAN

SHEET
NUMBER
A-01

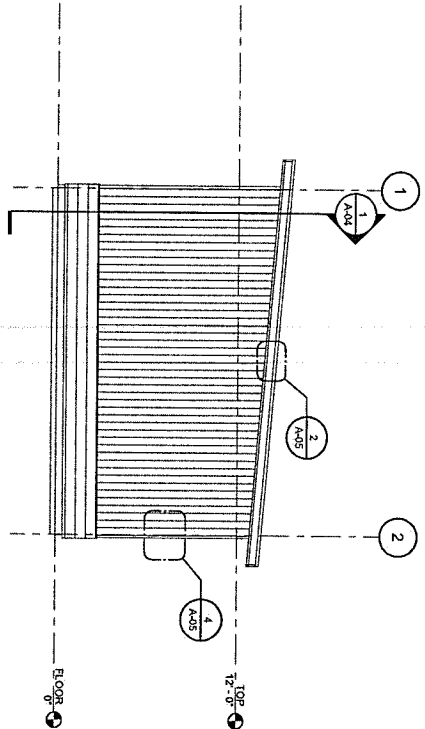
1 FIRST FLOOR PLAN

SCALE: 0' 1" 2' 4'



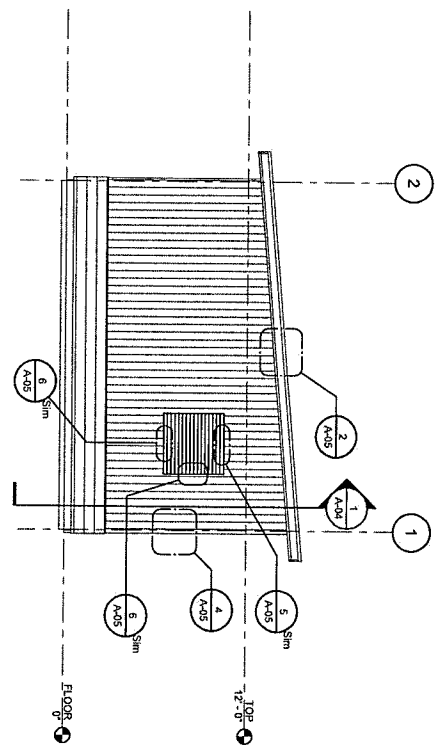
NOTES:
FINISH SCHEDULES:
1. WALLS - 5/8" PWD RD WALL @ 12" O.C. W/ RIB WANGSCOT TO 8'
SEMI-GLOSS GPX
2. CEILINGS - 1/2" PWD, RD WALL @ 12" O.C.
PAINT SAME AS WALLS
3. FLOORS - 1/2" PWD, RD WALL @ 12" O.C.
PAINT SAME AS INTERIOR
DOOR SCHEDULE:
1. WALLS - 5/8" PWD RD WALL @ 12" O.C.
HOLLOW METAL FRAME AND DOOR PAINT W/ 2 COATS OF LATEX SEMI-GLOSS ENAMEL.
2. CEILINGS - 1/2" PWD, RD WALL @ 12" O.C.
PAINT SAME AS INTERIOR

FRAME SCHEDULE:
1. WALLS - 5/8" PWD RD WALL @ 12" O.C.
HOLLOW METAL FRAME AND DOOR PAINT W/ 2 COATS OF LATEX SEMI-GLOSS ENAMEL.
2. CEILINGS - 1/2" PWD, RD WALL @ 12" O.C.
PAINT SAME AS INTERIOR



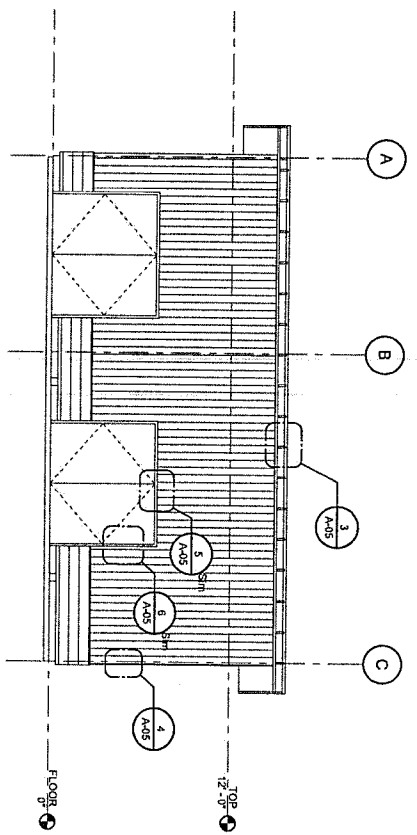
1 EXTERIOR ELEVATION - EAST

SCALE: 0 2' 4' 8'



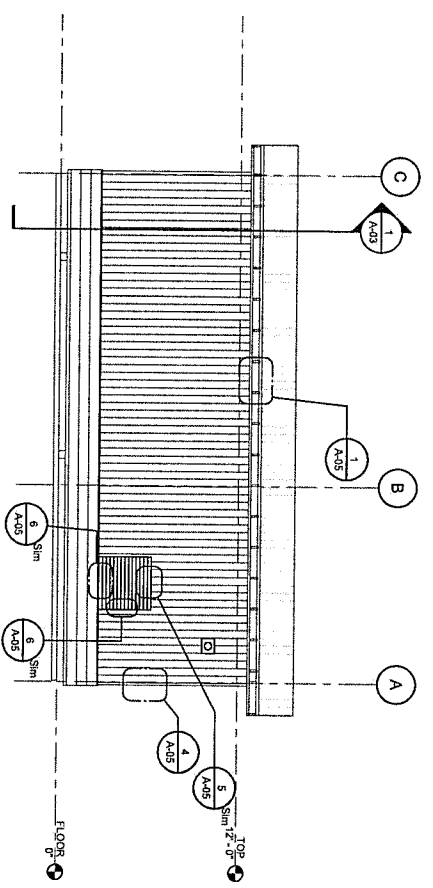
4 EXTERIOR ELEVATION - WEST

SCALE: 0 2' 4' 8'



2 EXTERIOR ELEVATION - SOUTH

SCALE: 0 2' 4' 8'



3 EXTERIOR ELEVATION - NORTH

SCALE: 0 2' 4' 8'



RECORD OF REVISIONS			
NO.	DATE	DESCRIPTION	BY

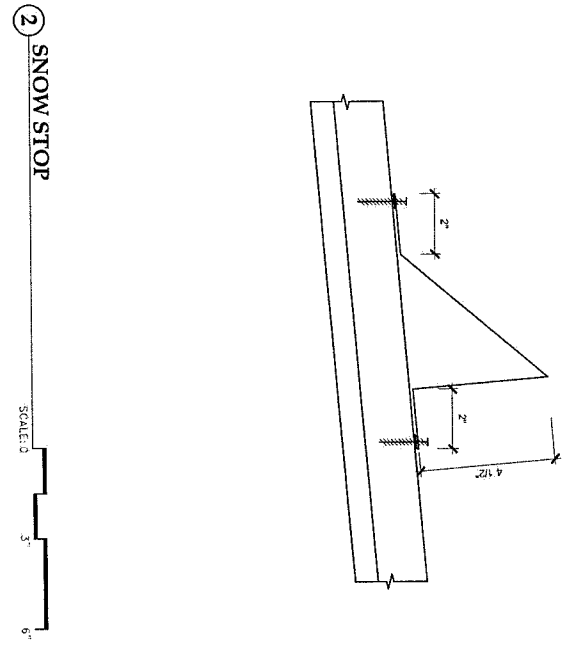
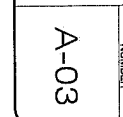
Jensen Yorba Wall Inc.
 CERTIFICATE OF AUTHORIZATION
 C.A.N. - AEC0397
 PND #24039
 DRAWN BY: TJM
 CHECKED BY: WJ
 DESIGNED BY: WJ
 422 WEST TOWN ST
 SUITE 100
 PORTLAND, OR 97204

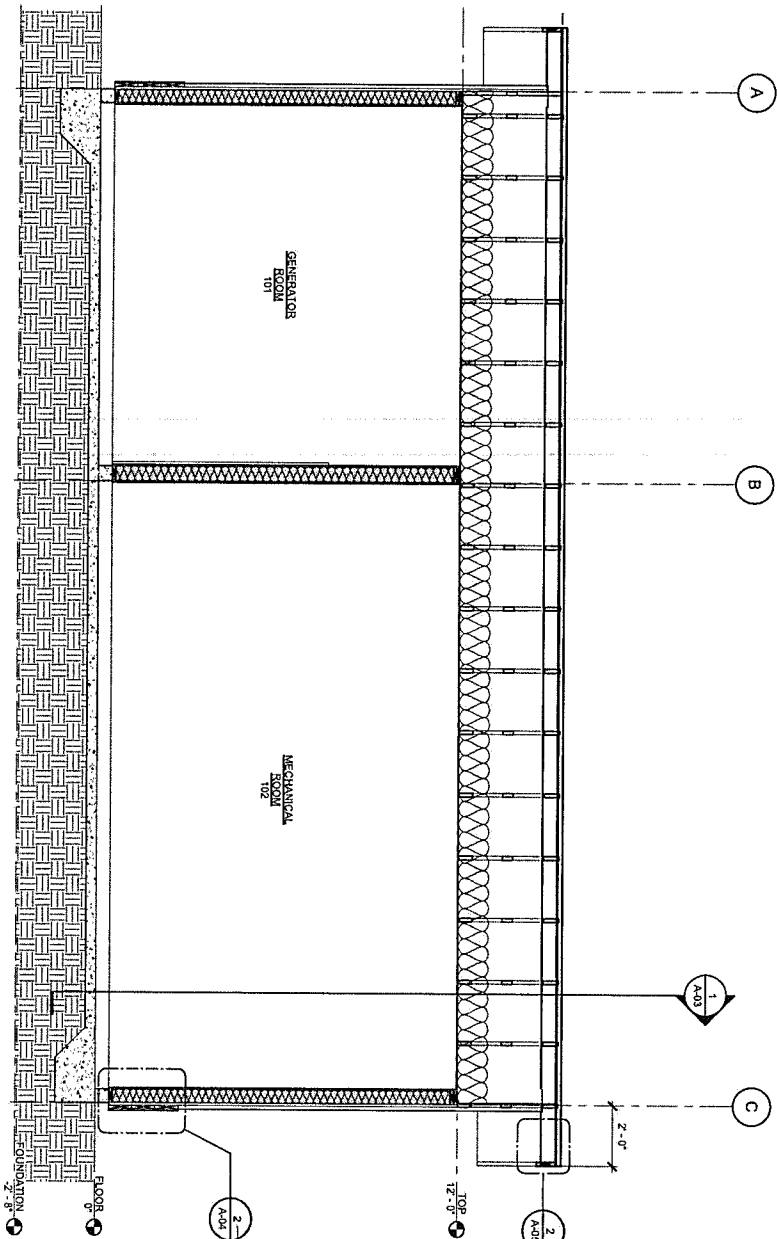


**COPE PARK
PUMP STATION
REPLACEMENT
BE25-317**

ELEVATIONS

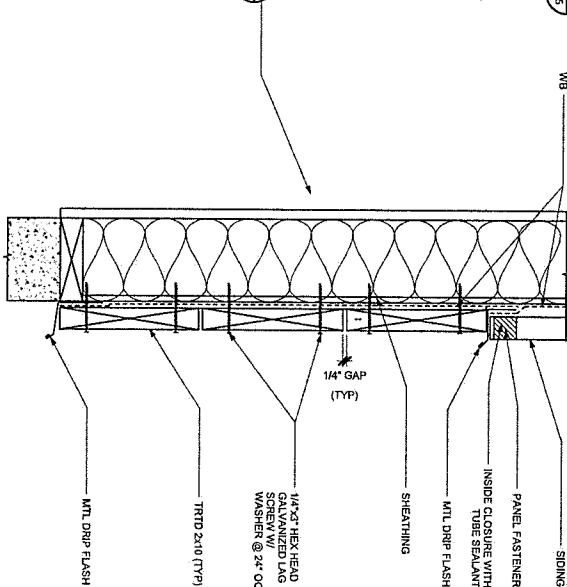
A-02





1 BUILDING SECTION 2

SCALE: 0 1' 2' 4'



2 WALL SECTION

SCALE: 0 3' 6' 12"



RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION
BY		

Jensen Yorba Wall Inc.
 CERTIFICATE OF AUTHORIZATION
 C.A.N. - ASCC137
 PND #24039

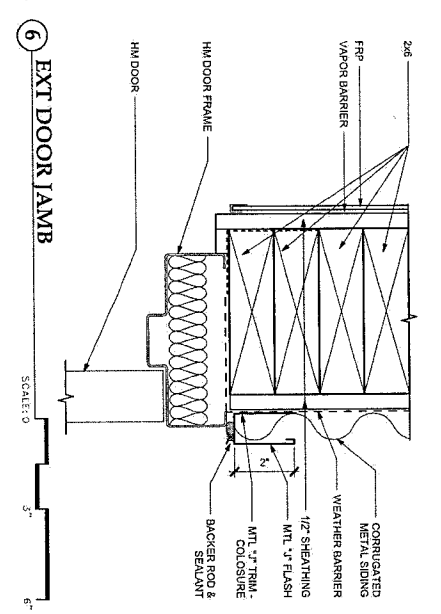
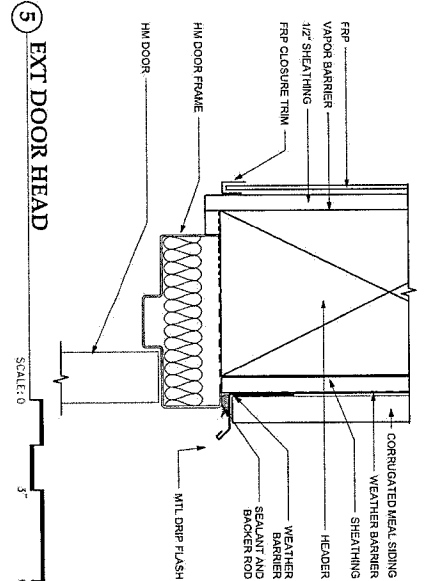
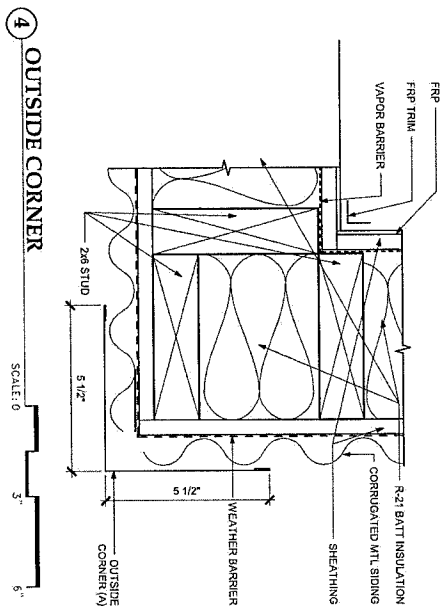
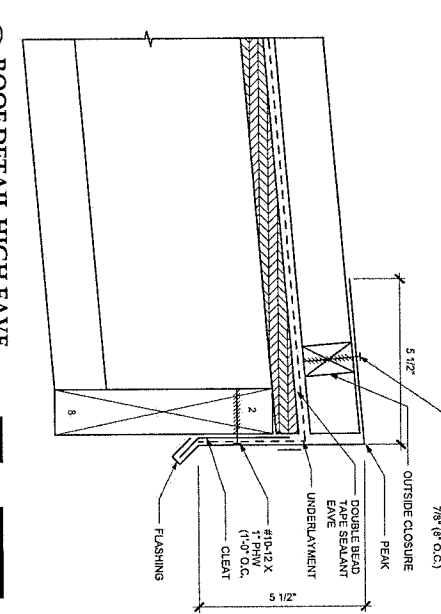
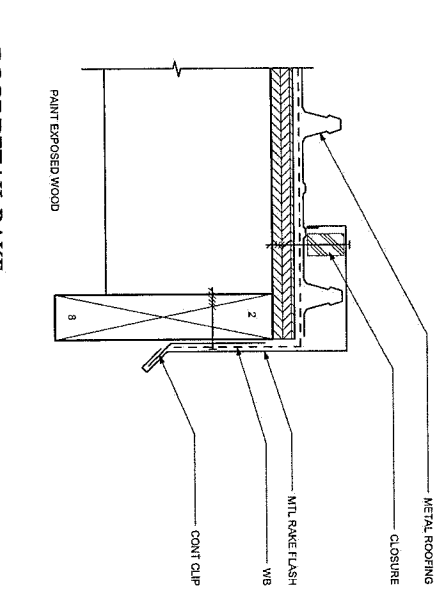
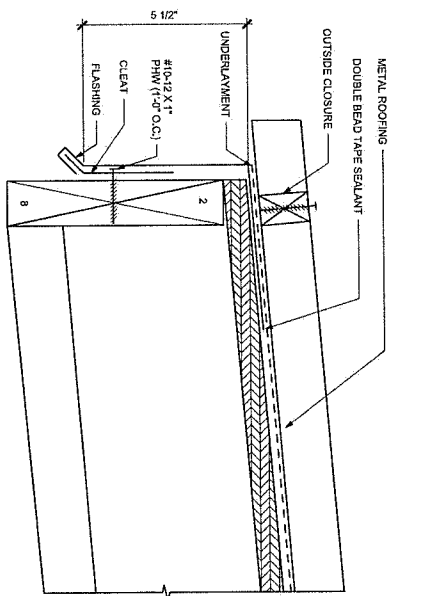
DESIGNED BY: TJL
 CHECKED BY: WJ
 JENSEN YORBA WALL INC.
 322 WEST 10TH ST
 SPOKANE, ID 83402



**COPE PARK
PUMP STATION
REPLACEMENT
BE25-317**

BUILDING SECTION

A-04
SHEET NUMBER



NO.	DATE	DESCRIPTION	BY

Jensen Yorba Wall Inc.
CERTIFICATE OF AUTHORIZATION
CAN - ASC0187
PNO #21039

DESIGNED BY	NO.	DATE
CHECKED BY	NO.	DATE

JENSEN YORBA WALL INC.
JENSEN YORBA WALL INC.
1001 10th Ave. S.
PO BOX 1000



**COPE PARK
PUMP STATION
REPLACEMENT
BE25-317**

EXTERIOR DETAILS

A-05

SHEET
NUMBER

P&ID LEGEND

DESCRIPTION	SYMBOL
PUMP	
GATE VALVE	
CHECK VALVE	
AIR VALVE	
PRESSURE RELIEF VALVE	
PRESSURE GAUGE	
FLOW METER	
REDUCER	
BLIND FLANGE (TAPPED)	

ABBREVIATIONS

DI	DUCTILE IRON
PI	PIPE
FL	FLANGE
GPW	GALLONS PER MINUTE
HE	HIGH ELEVATION
LF	LOW ELEVATION
NSF	NATIONAL SANITATION FOUNDATION
O.C.	ON CENTER
PE	PLANE END
RE	RESISTANCE
RPM	ROTATIONS PER MINUTE
SS	SERVICE SADDLE
TDH	TOTAL DYNAMIC HEAD

Plans subject to inspections.
6-30-2025 STW

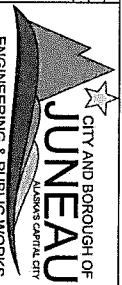


No.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

proHNS LLC
CERTIFICATE OF AUTHORIZATION
#10062

DRAWN BY: E. ROEMELING
DESIGNED BY: E. ROEMELING
CHECKED BY: E. CHAMBERS

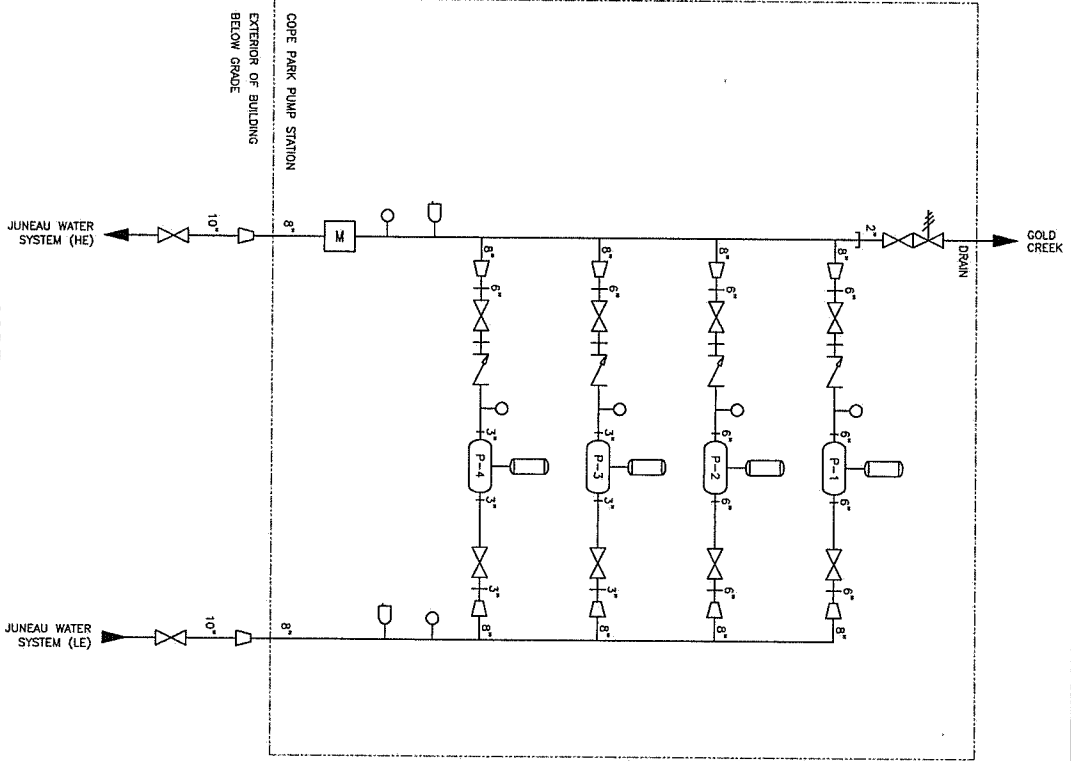
2201 DUNN ST #201
JUNEAU AK 99801
(907) 786-0004
ed@prohns.com
www.prohns.com



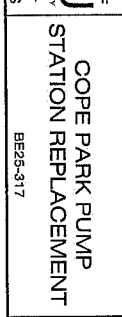
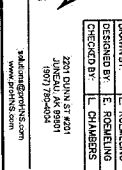
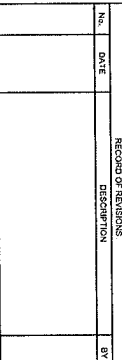
COPE PARK PUMP
STATION REPLACEMENT

LEGEND,
ABBREVIATIONS &
P&ID

SHEET NUMBER
M-01



COPE PARK - P&ID



[illegible]

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- 5



DATE	DESCRIPTION	BY

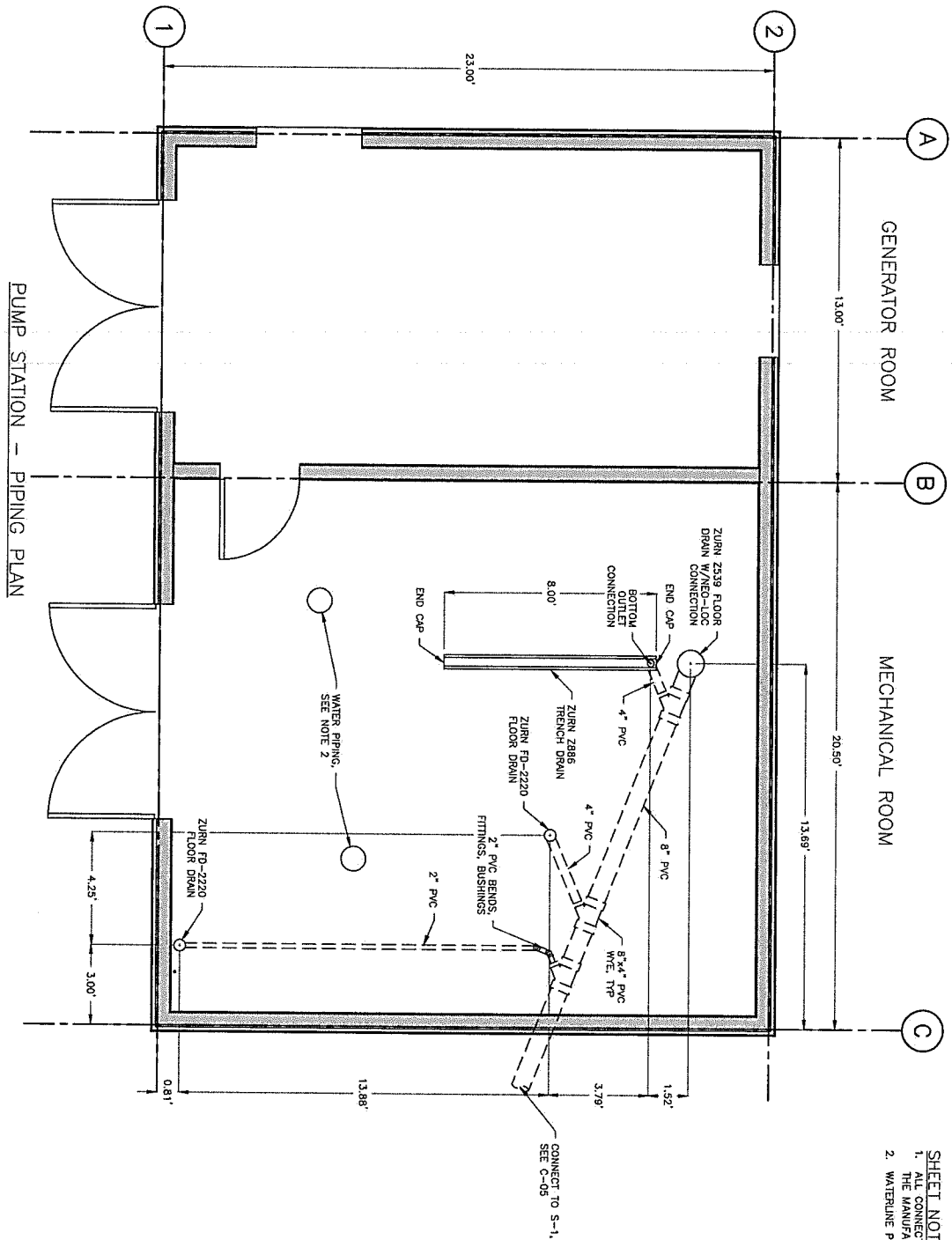
proHNS LLC
 CERTIFICATE OF AUTHORIZATION
 #100662

DESIGNED BY: E. ROEMELING
 CHECKED BY: E. ROEMELING
 PROJECT NO.: 2201 DUNN ST 001
 JUNEAU AK 99801
 (907) 586-0426
 e@prohns.com
 www.prohns.com

CITY AND BOROUGH OF JUNEAU
 JUNEAU CAPITAL CITY
 ENGINEERING & PUBLIC WORKS

COPE PARK PUMP STATION REPLACEMENT
 BE25-317

DRAIN PLAN
 SHEET NUMBER
 M-03



- SHEET NOTES:**
1. ALL CONNECTIONS BETWEEN DRAIN PIPES AND FLOOR DRAINS/TRENCH DRAIN TO MEET THE MANUFACTURERS RECOMMENDATIONS.
 2. WATERLINE PIPING NOT SHOWN FOR CLARITY, SEE M-02 FOR LAYOUT.



NO.	DATE	RECORD OF REVISIONS
		DESCRIPTION
		BY

proHNS LLC
2241 DUNN ST. #201
JUNEAU, AK 99801
(907) 784-0284
www.prohns.com

DESIGNED BY: E. ROCKELING
CHECKED BY: L. CHAMBERS
DRAWN BY: E. ROCKELING
DATE: 06/17/2025

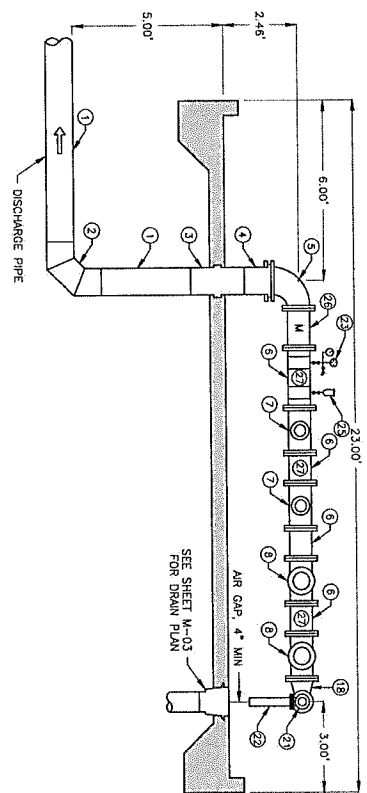


COPE PARK PUMP
STATION REPLACEMENT

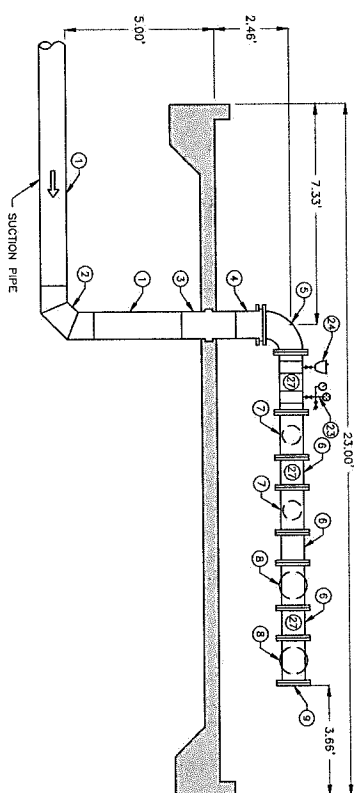
PIPING SECTIONS - 1

SHEET NUMBER
M-04

SECTION A



SECTION B



PIPING MATERIALS LIST

NUMBER	ITEM (SIZE, DESCRIPTION, CONNECTION)	QUANTITY
1	10" HOPE	4
2	10" HOPE 90° ELBOW (THREE-SEGMENT), BF	2
3	10" HOPE WALL ANCHOR, BF	2
4	10" HOPE FLANGE ADAPTER, BF X FL	2
5	10" x 8" DI 90° REDUCING ELBOW, FL	2
6	8" DI SPOOL, FL	8
7	8" x 8" x 3" DI REDUCING TEE, FL	4
8	8" x 8" x 8" DI REDUCING TEE, FL	4
9	8" DI BLIND FLANGE, FL	1
10	3" GATE VALVE, FL	4
11	6" GATE VALVE, FL	4
12	3" SPOOL, FL x PE	4
13	6" SPOOL, FL x PE	4
14	3" FLANGED COUPLING ADAPTER, RL X FL	4
15	6" FLANGED COUPLING ADAPTER, RL X FL	4
16	3" CHECK VALVE, FL	2
17	6" CHECK VALVE, FL	2
18	8" x 4" DI 90° REDUCING ELBOW, FL	1
19	4" x 2" DI CONCENTRIC REDUCER, FL	1
20	2" GATE VALVE, FL	1
21	2" 90° PRESSURE RELIEF VALVE, FL	1
22	2" SPOOL, FL x PE	1
23	PRESSURE GAUGE/TRANSDUCER & SAMPLING PORT, 0-200 PSI, SS	6
24	COMBINATION AIR VALVE, SS	1
25	AIR RELEASE VALVE, SS	1
26	8" FLOW METER, FL	1
27	U-BOLT PIPE SUPPORT LOCATION	5

PUMP DATA

PUMP NUMBER	PUMP INFORMATION	MOTOR INFORMATION
P-1	700 GPM, 14.3 TDH, 6"x6" FL	40 HP, 3560 RPM
P-2	700 GPM, 14.3 TDH, 6"x6" FL	40 HP, 3560 RPM
P-3	200 GPM, 115 TDH, 3"x3" FL	15 HP, 3525 RPM
P-4	200 GPM, 115 TDH, 3"x3" FL	15 HP, 3525 RPM

SHEET NOTES:

1. ALL PIPES, FITTINGS, CASSETS, METERS, PUMPS, AND ALL OTHER COMPONENTS COMING IN CONTACT WITH POTABLE WATER SHALL BE NSF/ANSI 61 CERTIFIED, AND SHALL BE DISINFECTED AND PRESSURE TESTED PER SECTION 02801 SPECIFICATIONS PRIOR TO BEING PUT INTO SERVICE.
2. CONSTRUCTION IS TO BE COMPLETED IN ACCORDANCE WITH LEAD FREE REQUIREMENTS OUTLINED IN 18 AAC 80.500. THESE INCLUDE: (A) NOT CONTAINING MORE THAN 0.2 PERCENT LEAD WHEN USED WITH RESPECT TO SOLDER AND FLUX; AND (B) NOT HAVING MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT LEAD WHEN USED WITH RESPECT TO THE WETTED SURFACES OF PIPES, PIPE FITTINGS, FLOWING FITTINGS, AND THROUGHS.
3. INSULATE ALL WATER PIPE, VALVES AND FITTINGS WITH 1/2" ARMAFLEX FOAM INSULATION. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
4. INDICATE DIRECTION OF FLOW WITH ARROWS ON WATER PIPE.
5. CONTRACTOR RESPONSIBLE FOR VERIFYING PART QUANTITIES AND SPOOL PIECE LENGTHS.
6. SEE U-BOLT PIPE SUPPORT DETAIL, 2, SHEET M-05.
7. SEE PRESSURE GAUGE AND SAMPLING PORT ASSEMBLY DETAIL, 1, SHEET M-06.
8. SEE COMBINATION AIR VALVE DETAIL, 3, SHEET M-06.



NO.	DATE	RECORD OF REVISIONS
		DESCRIPTION
		BY

proHNS LLC
CERTIFICATE OF AUTHORIZATION #100062

DESIGNED BY: E. ROEMELING
CHECKED BY: C. CHAMBERS

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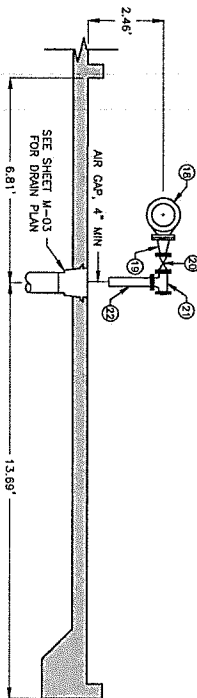
CITY AND BOROUGH OF
JUNEAU
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COPE PARK PUMP
STATION REPLACEMENT

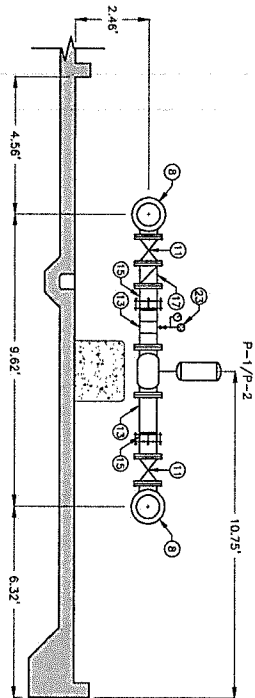
PIPING SECTIONS - 2

SHEET NUMBER
M-05

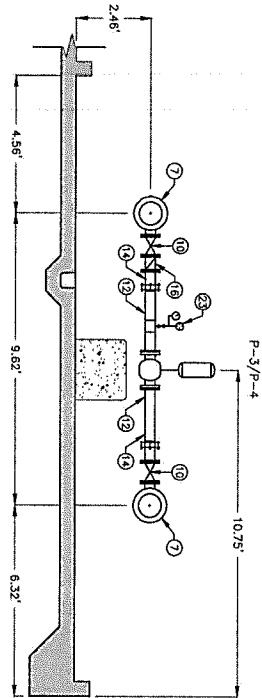
SECTION C



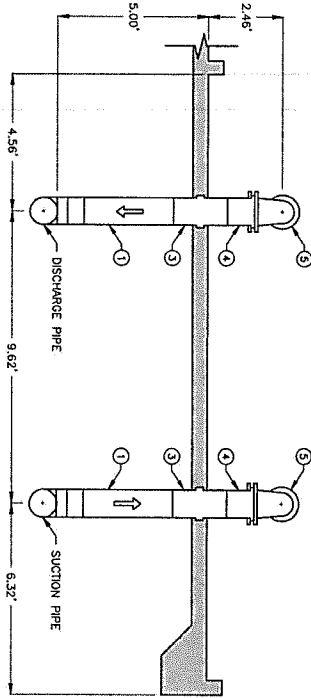
SECTION D



SECTION E



SECTION F



PIPING MATERIALS LIST

NUMBER	ITEM (SIZE, DESCRIPTION, CONNECTION)	QUANTITY
1	10", HOPE	4
2	10", HOPE 90° ELBOW (THREE-SEGMENT), BF	2
3	10", HOPE WALL ANCHOR, BF	2
4	10", HOPE FLANGE ADAPTER, BF X FL	2
5	10"x8", DI 90° REDUCING ELBOW, FL	2
6	8", DI SPOOL, FL	8
7	8"x6"x3", DI REDUCING TEE, FL	4
8	8"x8"x6", DI REDUCING TEE, FL	4
9	8", DI BLIND FLANGE, FL	1
10	5", DI GATE VALVE, FL	4
11	6", DI GATE VALVE, FL	4
12	3", SPOOL, FL X PE	4
13	3", SPOOL, FL X PE	4
14	3", FLANGED COUPLING ADAPTER, RI X FL	4
15	5", FLANGED COUPLING ADAPTER, RI X FL	4
16	3", CHECK VALVE, FL	2
17	5", CHECK VALVE, FL	2
18	8"x4", DI 90° REDUCING ELBOW, FL	1
19	4"x2", DI CONCENTRIC REDUCER, FL	1
20	12", GATE VALVE, FL	1
21	12", 90° PRESSURE RELIEF VALVE, FL	1
22	2" SPOOL, FL X PE	1
23	PRESSURE GAUGE/TRANSDUCER & SAMPLING PORT, 0-200 PSI, SS	6
24	COMBINATION AIR VALVE, SS	1
25	AIR RELEASE VALVE, SS	1
26	8" FLOW METER, FL	1
27	U-BOLT PIPE SUPPORT LOCATION	5

PUMP DATA

PUMP NUMBER	PUMP INFORMATION	MOTOR INFORMATION
P-1	700 GPM, 143 TDH, 6"x6" FL	40 HP, 3560 RPM
P-2	700 GPM, 143 TDH, 6"x6" FL	40 HP, 3560 RPM
P-3	200 GPM, 115 TDH, 3"x3" FL	15 HP, 3525 RPM
P-4	200 GPM, 115 TDH, 3"x3" FL	15 HP, 3525 RPM

SHEET NOTES:

- ALL PIPING, FITTINGS, GASKETS, METERS, PUMPS, AND ALL OTHER COMPONENTS COMING IN CONTACT WITH POTABLE WATER SHALL BE USED AS IS, CERTIFIED, AND SHALL BE DISINFECTED AND PRESSURE TESTED PER SECTION 02601 SPECIFICATIONS PRIOR TO BEING PUT INTO SERVICE.
- CONSTRUCTION IS TO BE COMPLETED IN ACCORDANCE WITH LEAD FREE REQUIREMENTS OUTLINED IN 18 AAC 80.500. THESE INCLUDE (A) NOT CONTAINING MORE THAN 0.2 PERCENT LEAD WHEN USED WITH RESPECT TO SOLDER AND FLUX; AND (B) NOT HAVING MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT LEAD WHEN USED WITH RESPECT TO THE WETTED SURFACES OF PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES.
- INSULATE ALL WATER PIPE, VALVES AND FITTINGS WITH 1/2" ARMAFLEX FOAM INSULATION. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- INDICATE DIRECTION OF FLOW WITH ARROWS ON WATER PIPE.
- CONTRACTOR RESPONSIBLE FOR VERIFYING PART QUANTITIES AND SPOOL PIECE LENGTHS.
- SEE U-BOLT PIPE SUPPORT DETAIL 2, SHEET M-06.
- SEE PRESSURE GAUGE AND SAMPLING PORT ASSEMBLY DETAIL 1, SHEET M-06.
- SEE COMBINATION AIR VALVE DETAIL 3, SHEET M-06.



No.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

proHNS LLC
CERTIFICATE OF AUTHORIZATION #10000

DESIGNED BY: E. ROEMELING
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ENGINEERING & PUBLIC WORKS

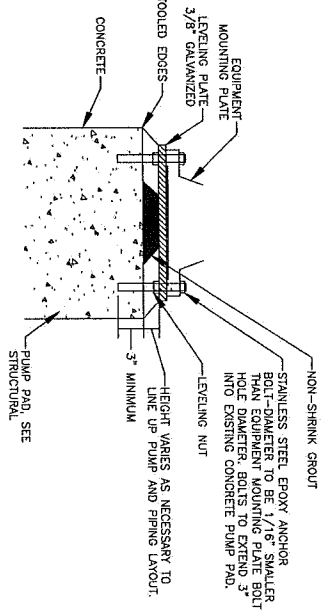
COPE PARK PUMP STATION REPLACEMENT

MECHANICAL DETAILS

SHEET NUMBER
M-06

4 EQUIPMENT MOUNTING PLATE

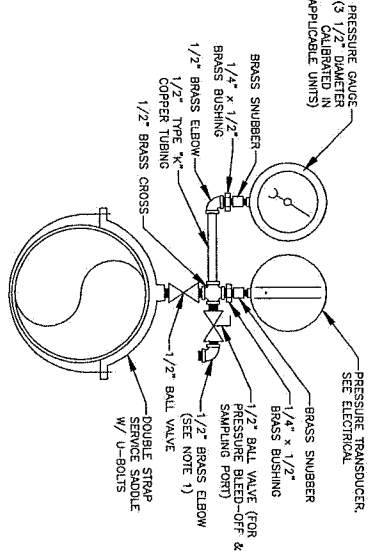
M-06
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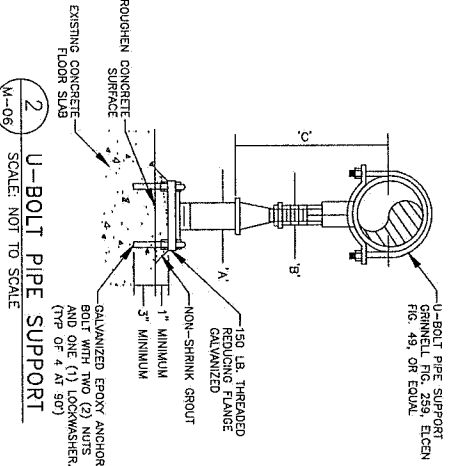
1 PRESSURE GAUGE & SAMPLING PORT ASSEMBLY

M-06
SCALE: NOT TO SCALE

- DETAIL 1/M-06 NOTES:
- END OF PRESSURE BLEED-OFF & SAMPLING PORT TO BE EITHER 180° TURN OR 90° TURN. VACUUM BREAKER INSTALLED TO PROTECT AGAINST CROSS-CONNECTION.



ADJUSTABLE PIPE SUPPORT APPROXIMATE DIMENSIONS IN INCHES				
PIPE SIZE	A'	B'	C' MINIMUM	C' MAXIMUM
8"	4	2	10	15

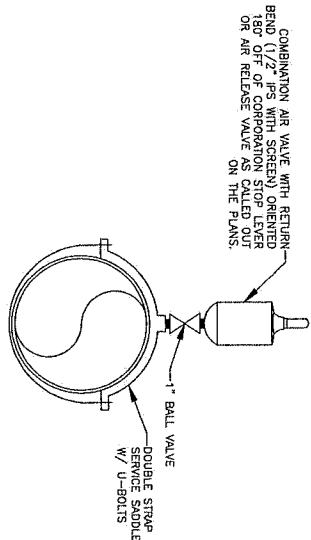


2 U-BOLT PIPE SUPPORT

M-06
SCALE: NOT TO SCALE

3 COMBINATION AIR VALVE OR AIR RELEASE VALVE

M-06
SCALE: NOT TO SCALE



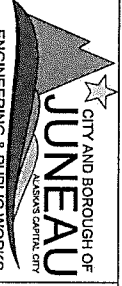


RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION

MORRIS
ENGINEERING GROUP, INC.
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DESIGNED BY: B. STEPHAN
CHECKED BY: M. MORRIS



COPE PARK
PUMP STATION
REPLACEMENT
BE25-317

ELECTRICAL
LEGEND &
GENERAL NOTES
SHEET NUMBER
E-01

ELECTRICAL LEGEND

AFT ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

ATS AUTOMATIC TRANSFER SWITCH

AUX AUXILIARY

AWG AMERICAN WIRE GAUGE

BLDG BUILDING

C/B CIRCUIT BREAKER

CKT CIRCUIT

COAX COAXIAL CABLE

C CONDUIT

CPT CONTROL POWER TRANSFORMER

CTS CURRENT TRANSFORMER

EM EMERGENCY BATTERY UNIT

EXTG EXISTING

FBO FURNISHED BY OWNER

GFI GROUND FAULT INTERRUPTER

GND GROUND

GRS GALVANIZED RIGID STEEL

GRG GALVANIZED RIGID STEEL CONDUIT

HIM HUMAN INTERFACE MODULE

HOA HAND-OFF-AUTO

J-BOX JUNCTION BOX

KA KILOAMPERES

KVA KILOVOLTAMPERES

KW KILOWATT

LTC LIGHTING

LWC LIQUIDTIGHT FLEXIBLE METAL CONDUIT

MCP MAIN DISTRIBUTION PANEL

MAX MAXIMUM

MIN MINIMUM

NEC NATIONAL ELECTRICAL CODE

NID NETWORK INTERFACE DEVICE

OC ON CENTER

OHE OVERHEAD ELECTRICAL

PVC RIGID POLYVINYL CHLORIDE CONDUIT

REC RECEPTACLE

SS STAINLESS STEEL

SPD SURGE PROTECTIVE DEVICE

TRP-# TYPICAL OF # (TRP-2 = TYPICAL OF 2)

UGE UNDERGROUND ELECTRICAL

WP WEATHERPROOF

W/ WITH

2 NO. 8 2 CONDUCTORS, NUMBER 8 AWG

3ø, 4W 3-PHASE, 4-WIRE

VFD VARIABLE FREQUENCY DRIVE

CAPACITOR

CIRCUIT BREAKER (AMPS/POLES)

CONDUCTOR

DUPLEX RECEPTACLE

ELECTRIC MOTOR

FLEXIBLE CONDUIT

CEILING LUMINAIRE

FUSE

FUSED DISCONNECT

GROUND

GENERATOR

HOME RUN (PANEL-CKT). ALL CONDUIT SHALL BE 3/4" MIN. PROVIDE THE CORRECT CONDUIT SIZE, CONDUIT TYPE, CONDUIT QUANTITY AS REQUIRED AND PER NEC. INCREASE CONDUIT SIZE PER CODE FOR MORE THAN 3 CONDUCTORS IN CONDUIT.

HAND-OFF-AUTO SWITCH

FLOAT SWITCH

INDUSTRIAL CONTROL RELAY, NUMBER OR LETTER INDICATES RELAY NUMBER

TIME DELAY RELAY CONTACTS ON DELAY, OFF DELAY

TIMER RELAY CONTACT

JUNCTION BOX

MAIN LUG

METER/MAIN

NORMALLY OPEN & NORMALLY CLOSED CONTACTS. NUMBER INDICATES RELAY NUMBER

LIGHT POLE & LUMINAIRE

PHOTO CELL

PUSH TO TEST INDICATING LIGHT

LETTER INDICATES COLOR

PUSHBUTTON

SPECIAL USE RECEPTACLE

SHUNT TRIP COIL

SINGLE POLE SWITCH

TELEPHONE JACK

THERMOSTAT

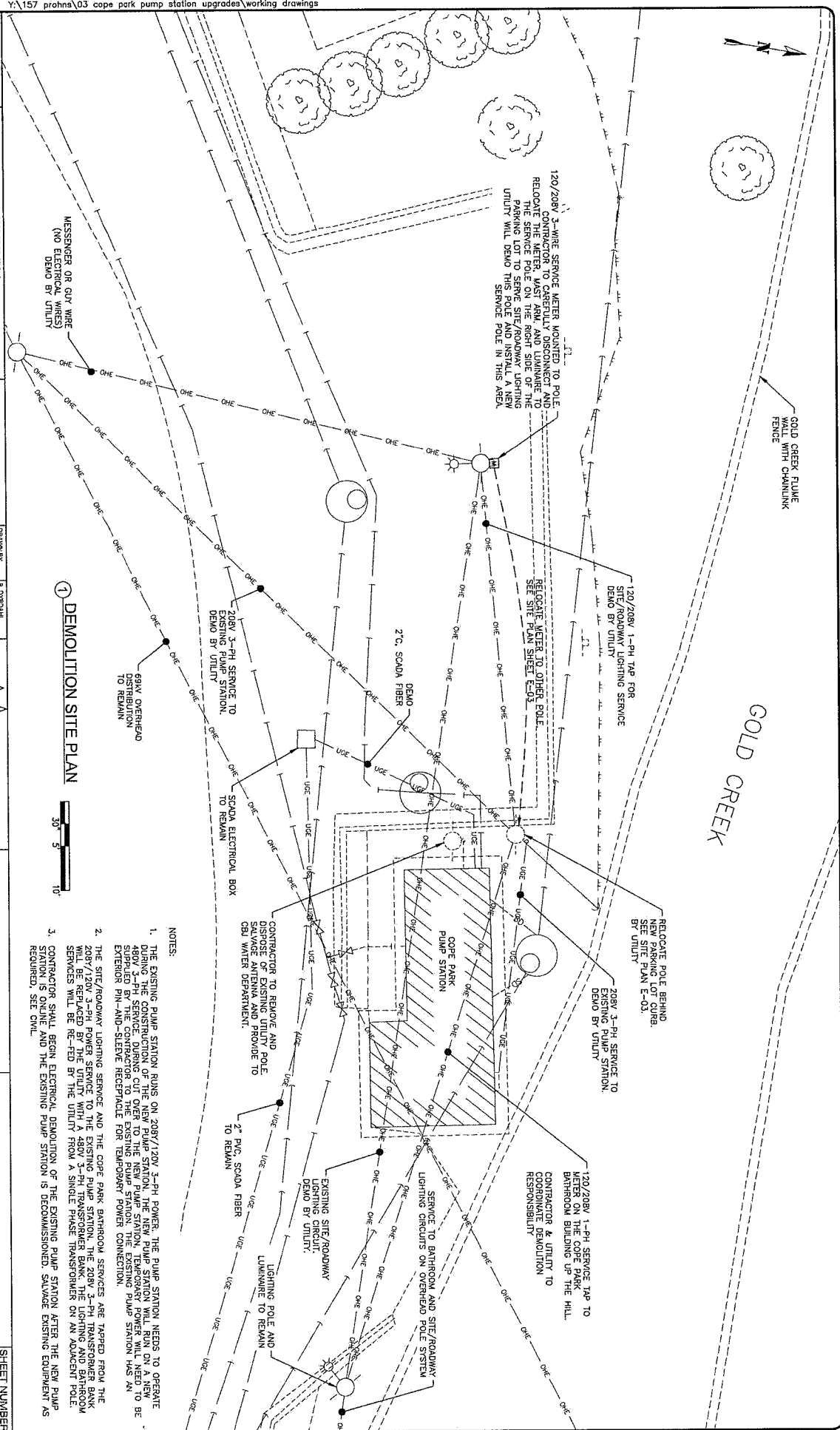
TRANSFORMER

- GENERAL NOTES:
- PERFORM ALL WORK PER THE 2020 NATIONAL ELECTRICAL CODE (NEC), AND OTHER APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND STANDARDS.
 - ALL WORK IS NEW UNLESS OTHERWISE NOTED.
 - LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. OBTAIN OBSTRUCTIONS, DID WITH CAUTION AND AVOID ALL WATER SEWER, DRAINAGE PIPES, AND UTILITY INFRASTRUCTURE. COORDINATE WITH POWER AND COMMUNICATIONS UTILITIES TO ALLOW THEM TO PERFORM THEIR WORK.
 - PROVIDE CONDUIT, CONDUIT BODIES, FITTINGS, JUNCTION BOXES, FLEX CONDUIT, ETC., AS REQUIRED TO MOUNT AND POWER ALL ELECTRICAL DEVICES, EQUIPMENT, LUMINAIRES, ETC., NOT EXERCISE BOX, FLEX TRANSDUCER, OR OTHER ELECTRICAL ELEMENTS ARE SHOWN OR SPECIFIED EXACTLY. PROVIDE ALL REQUIRED.
 - PROVIDE GALVANIZED RIGID STEEL CONDUIT ON EXTERIOR OF BUILDING. SCHEDULE 80 PVC FOR UNDERGROUND INSTALLATIONS. PROVIDE ALL GALVANIZED RMC UNDERGROUND CONDUIT ELBOWS. PROVIDE LISTED COUPLERS FOR TRANSITION FROM RMC TO PVC. DURA-LINE SHUT-LOCK II OR EQUAL.
 - FIELD TREAT ALL HOT-DIPPED GALVANIZED MATERIALS THAT ARE CUT, DRILLED, SCRATCHED, OR DAMAGED.
 - ALL CONDUCTORS IN CONDUIT.
 - USE STAINLESS STEEL BOLTS, WASHERS, ETC. TO MOUNT ELECTRICAL EQUIPMENT AND STRUT CHANNEL. ALL FASTENERS AND OTHER EXPOSED HARDWARE SHALL BE 316L STAINLESS STEEL.
 - PROVIDE OXIDE INHIBITING COMPOUND ON ALL ELECTRICAL CONNECTIONS.
 - CONDUIT ROUTING SHOWN ON THE PLANS AND ELEVATIONS ARE SUGGESTED ROUTES. CONDUITS SHALL BE SURFACE MOUNTED AND/OR INSTALLED UNDER THE CONCRETE SLAB. THE CONTRACTOR MAY ELECT TO ROUTE CONDUITS OTHER THAN AS IS SHOWN ON THE PLANS, PROVIDED THE INSTALLATION MEETS CODE AND AS-BUILTS ARE SUBMITTED AFTER CONSTRUCTION.
 - IF EQUIPMENT TO BE INSTALLED ON THE PROJECT HAS NOT ARRIVED AND TEMPORARY MEANS OF COVERING OR PROTECTING INFRASTRUCTURE IS NECESSARY, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROVISIONS AND TEMPORARY MEANS OF PROTECTION. AT ALL TIMES THE JOB SITE SHALL REMAIN IN A SAFE AND WORKMANLIKE CONDITION.
 - PROVIDE A SUBMITTAL, REGISTER WITH A FULL LIST OF PROJECT SUBMITTALS WHERE REQUIRED PER EACH SPECIFICATION SECTION. INCLUDE IN THE REGISTER THE DATE OF EACH SUBMISSION, RESPONSES PROVIDED BY THE ENGINEER, ETC. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE SUBMITTALS OF ALL EQUIPMENT SHOWN ON THE DRAWINGS. SUBMITTALS ARE APPROVED IN WRITING.
 - ALL PART NUMBERS ARE GIVEN AS A GUIDE TO WHAT MATERIAL IS BEING SPECIFIED. THEY ARE BASED ON INFORMATION AVAILABLE DURING DESIGN AND MAY NOT BE ACCURATE OR COMPLETE. VERIFY ALL PART NUMBERS AND MATERIALS AND SPECIFICATIONS TO CONFORM TO DRAWINGS AND SPECIFICATIONS. THE DRAWINGS SHALL NOT BE USED AS A BILL OF MATERIALS.
 - NOTIFY OTHER TRADES AND COORDINATE WITH THEM THE SEQUENCE OF INSTALLING THE ELECTRICAL WORK. IF ANY TRADES OF OTHER WORK HAS TO PAUSE UNTIL THE ELECTRICAL WORK IS DONE, VERIFY ADEQUATE TIME IS PROVIDED FOR THE PAUSE. THE CONTRACTOR SHALL BE RESPONSIBLE TO ALLOW THE ELECTRICAL WORK TO BE DONE. IT IS UP TO THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS TO WORK TOGETHER AS REQUIRED TO PROVIDE THE WORK SHOWN IN THE CONTRACT DOCUMENTS.
 - PROVIDE ALL ELECTRICAL WORK REQUIRED, WHETHER SHOWN OR NOT SHOWN, FOR COMPLETE AND FULLY FUNCTIONAL SYSTEMS.
 - THE NEW PUMP STATION WILL BE CONSTRUCTED WHILE THE EXISTING PUMP STATION REMAINS ONLINE. TEMPORARY POWER SHALL BE MAINTAINED TO THE EXISTING PUMP STATION FROM 208V 3-PHASE SERVICE TO 480V 3-PHASE SERVICE TO THE NEW PUMP STATION. COORDINATE ELECTRICAL INSTALLATION SEQUENCING PLAN WITH THE GENERAL CONTRACTOR AND OVERALL CONSTRUCTION SEQUENCING PLAN.

JH

06/27/2025

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
E-01	LEGEND & GENERAL NOTES
E-02	IDENTIFICATION SITE PLAN
E-03	SITE PLAN
E-04	EQUIPMENT LIST
E-05	SINGLE LINE DIAGRAM
E-06	PANEL SCHEDULES
E-07	BUILDING FLOOR PLAN
E-08	LIGHTING PLAN
E-09	GENERATOR MECHANICAL PLAN
E-10	GENERATOR MECHANICAL SECTION



CRAWN BY:	B. DYDDAHL
DESIGNED BY:	B. DYDDAHL
CHECKED BY:	M. MORRIS

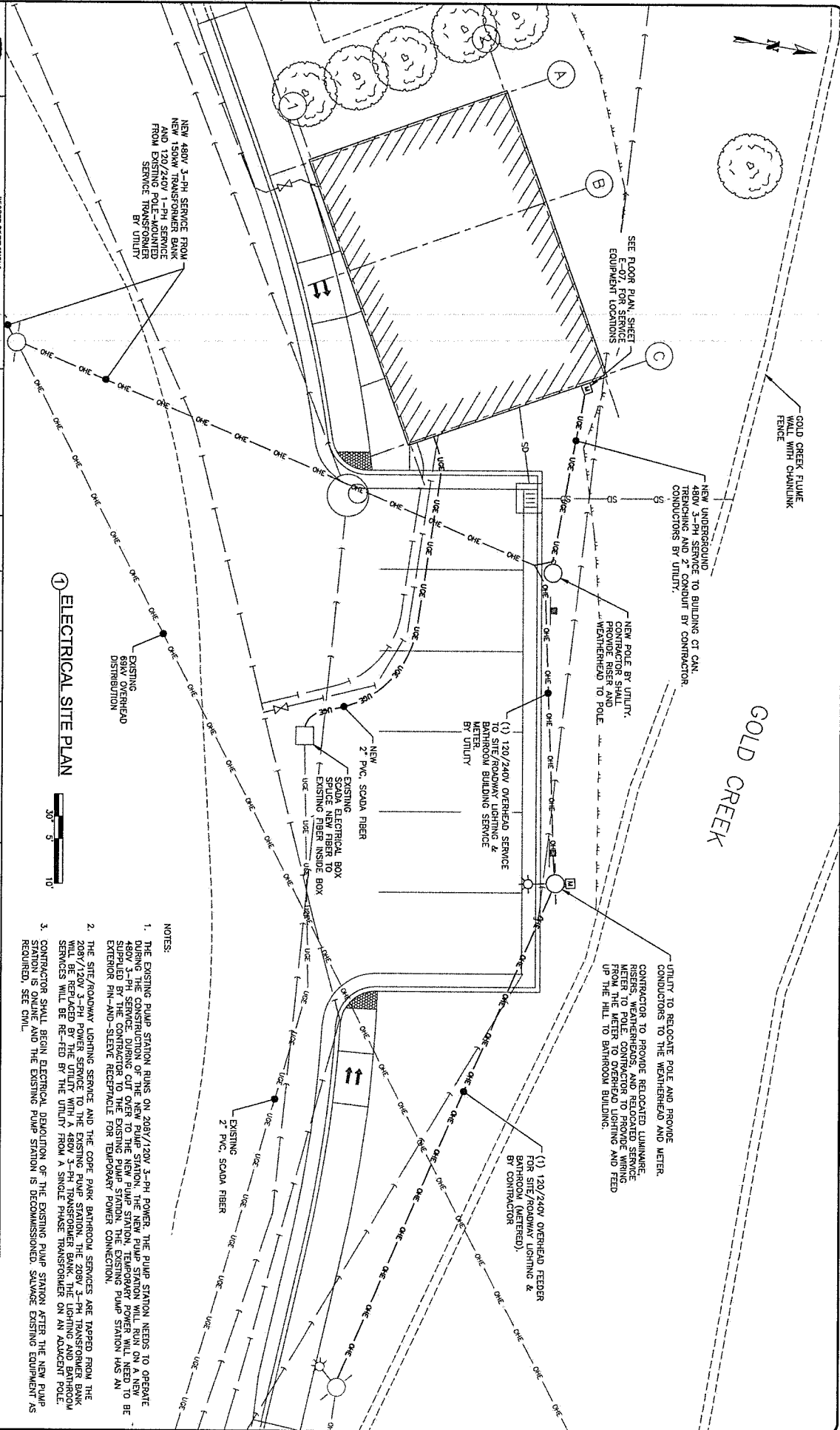
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(907) 785-5350



COPE PARK
PUMP STATION
REPLACEMENT
PAGE 217

ELECTRICAL SITE PLAN

E-03



① SERVICE METER, 480Y/277V, TYPE 3R

- [illegible]

21. FUEL POLISHING SYSTEM. MOUNT TO 36" X 36" X 3/4" (P/6000) BACKBOARD PAINTED WHITE. TOP AT 6' 0". PROVIDE CORRECT OPENINGS AND NOTIFICATIONS IN FUEL TANK. NO REDUCED OR UNDESIRABLE FUEL OIL, SLUDGE OR EXHAUST GAS, OTHER NOXIOUS AND HAZARDOUS CONTAMINANTS FOUND IN DIESEL FUEL. THE FUEL PURIFIER SHALL BE GREEN CLEAN CERTIFIED AND HAVE NO REMOVAL PARTS OR FILTERS. THERE SHALL BE NO ELEMENTS OR CARTRIDGES TO CLEAN, CHANGE OR REPLACE. PROVIDE WITH OPERATOR TOUCH PANEL INTERFACE, BRASS INLET AND OUTLET VALVES, BRASS SHUT OFF VALVES, SHUT OFF HANDLE, GREEN START/STOP WITH LOCKING CONTACTS AND PUMP SHUT OFF. FUEL PURIFIER, WATER SENSOR, ALARM AND MAGNETIC SENSOR DECONTAMINATION UNIT. FERGUSON ALL WORK REQUIRED FOR AN OPERATIONAL SYSTEM.
22. EXHAUST COOLING AIR DUCT. MOUNT ONE END TO LOUD BANK. MOUNT THE OTHER END TO THE DAMPER.
23. LOW LEAKAGE CONTROL. EXHAUST AIR DAMPER, 42"X 1/2", OPPOSED BLADES, FLANGED TO DUCT CONNECTIONS, JACK SHAFT SIZE AS SHOWN ON THE PLANS. SLAT WATER RESISTANCE OPTION. RUSKIN TED30 OR EQUAL. SEE SHEETS E-09 & E-10.
24. FIXED BLADE EXHAUST LOUVER, 42"X 1/2" X 3/8", WITH OPTIONAL STAINLESS STEEL BAR SCREEN, FLANGE AND SLEEVE. VENT PRODUCE MODEL, 2370 OR EQUAL. SEE SHEETS E-09 & E-10.
25. LOW LEAKAGE CONTROL. INTAKE AIR DAMPER, 48"X 1/2" X 48", OPPOSED BLADES, FLANGED TO DUCT CONNECTIONS. EXTENDED JACK SHAFT SIZE AS SHOWN ON PLANS. SLAT WATER RESISTANCE OPTION. RUSKIN TED30 OR EQUAL.
26. LOW LEAKAGE CONTROL. RETURN AIR DAMPER, 36" X 24", OPPOSED BLADES, FLANGED TO DUCT CONNECTIONS. EXTENDED JACK SHAFT SIZE AS SHOWN ON PLANS. SLAT WATER RESISTANCE OPTION. RUSKIN TED30 OR EQUAL.
27. CONTROL. DAMPER ACTUATORS FOR LOUVERS, ALL ACTUATORS SHALL BE 24 VAC CONTROLLED SPRING CLOSED, ON/OFF FOR OUTSIDE AIR DAMPER, MODULATING FOR RETURN AIR DAMPER AND EXHAUST AIR DAMPER. WITH 120V/24V AC TRANSFORMER, BRACKET, ROD EXTENSION, SHUT OFF VALVE, RETURN AIR DAMPER OR OUTSIDE AIR DAMPER TO OPEN, 100% UPON GENERATOR OPERATION. RETURN AIR DAMPER TO OPEN AS THE SPACE TEMPERATURE DROPS BELOW SET POINT. THE EXHAUST AIR DAMPER TO CLOSE PROPORTIONALLY TO THE RETURN DAMPER AS IT OPENS AS IT OPENS THIS DAMPER WILL CLOSE. ADJUSTABLE SET POINT ON TEMPERATURE SENSOR INSTALLED. SET AT 70°F.
28. ALL INTAKE AND EXHAUST OPENINGS TO BE FABRICATED OUT OF MINIMUM 20 GAUGE GALVANIZED SHEET METAL, TO FORM AN INTAKE AND EXHAUST HOOD. STANDARD DIGITATE FLANGES USED TO CONNECT TO COLLARS PENETRATING THE WALLS AND ALL CONNECTIONS. REMOVABLE 1/2" SQUARE STAINLESS STEEL MESH ON ALL OUTLET AND INTAKES. SEE DRAWINGS FOR SIZES AND CONSTRUCTION.

		RECORD OF REVISIONS	
NO.	DATE	DESCRIPTION	BY
 MORRIS engineering & survey inc. 2775 JORDAN AVE #7 JUNEAU, AK 99801 (907) 786-5350		DRAWN BY: R. O'DONALD DESIGNED BY: S. O'DONALD CHECKED BY: M. MORRIS 2775 JORDAN AVE #7 JUNEAU, AK 99801 (907) 786-5350	
CERTIFICATE OF AUTHORIZATION AKSC-1000		info@morriseng.com www.morriseng.com	



**CITY AND BOROUGH OF
JUNEAU**
ALASKA CAPITAL CITY

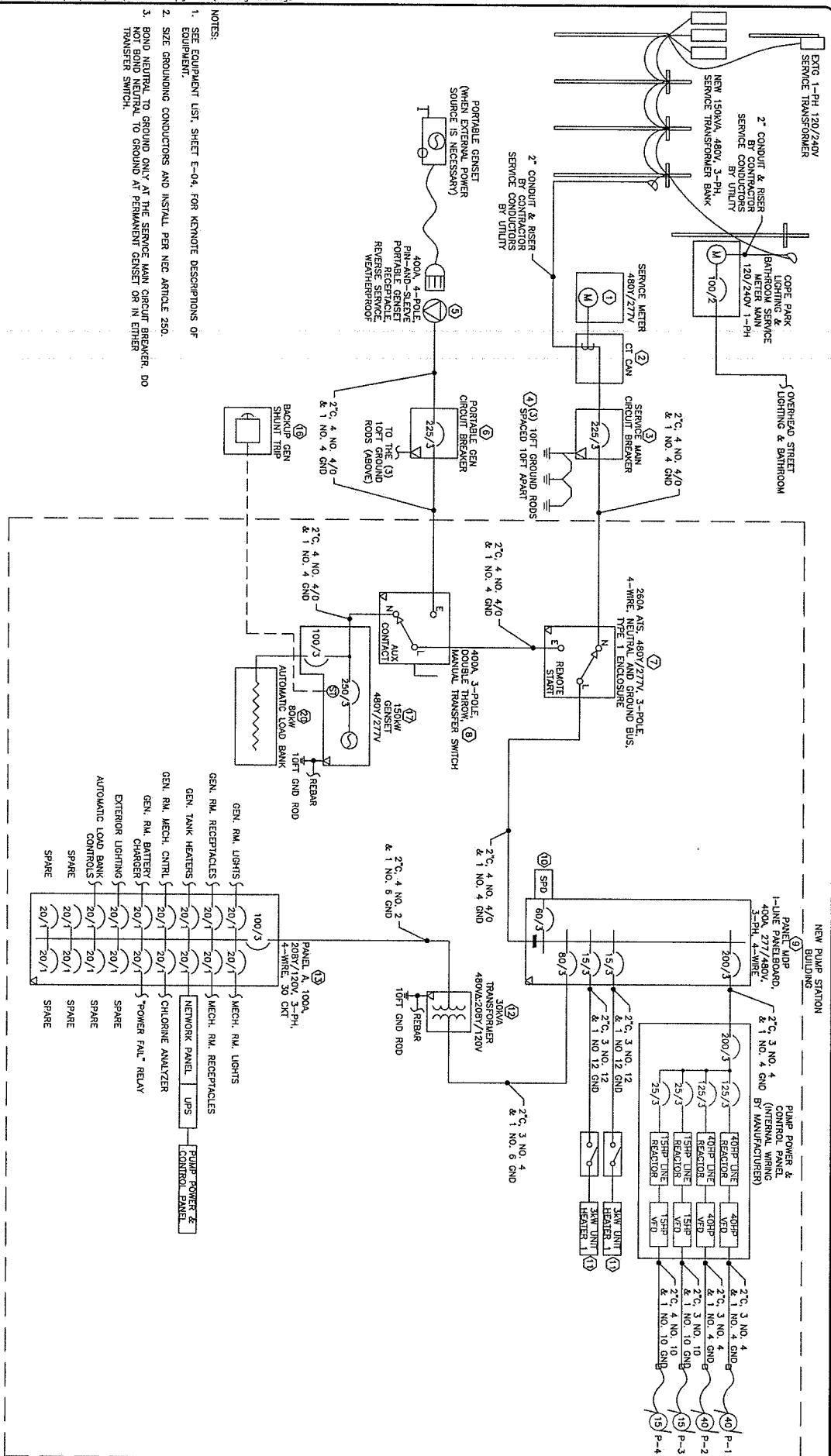
ENGINEERING & PUBLIC WORKS

**COPE PARK
PUMP STATION
REPLACEMENT**

826-5-317

**ELECTRICAL
EQUIPMENT LIST**







E-04



NOTES:

1. SEE EQUIPMENT LIST, SHEET E-04, FOR KENOTE DESCRIPTIONS OF EQUIPMENT.
2. SIZE GROUNDING CONDUCTORS AND INSTALL PER NEC ARTICLE 250.
3. BOND NEUTRAL TO GROUND ONLY AT THE SERVICE MAIN CIRCUIT BREAKER. DO NOT BOND NEUTRAL TO GROUND AT PERMANENT GANSET OR IN EITHER TRANSFER SWITCH.

① SINGLE LINE DIAGRAM

	No.	RECORD OF REVISIONS						
	DATE	DESCRIPTION	BY					
CERTIFICATE OF AUTHORIZATION #ECL1910				DRAWN BY: B. LYBDAHL DESIGNED BY: B. LYBDAHL CHECKED BY: M. MORRIS 3275 JORDAN AVE #7 JUNEAU AK 99801 (907) 784-3356 info@morrisengineering.com www.morrisengineering.com				



DATE	RECORD OF REVISION
	DESCRIPTION
BY	

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CHECKED BY: M. MORRIS	
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COPE PARK
PUMP STATION
REPLACEMENT
BE25-317

ELECTRICAL
PANEL
SCHEDULES
E-06

20a 125v receptacles be GFCI per NEC Article 210.8(B)(6)

PANEL A		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION	
		100A	120/208V, 3ø, 4W		SURFACE		100/3	PUMP STATION BUILDING	
CRT NO.	DESCRIPTION	C/B SIZE	CRT	Aø	Bø	Cø	CRT SIZE	C/B SIZE	CRT NO.
1	BATTERY CHARGER	20/1	1.2	1.6			0.4	20/1	2
3	MECH RM INTERIOR LIGHTING	20/1	0.2	0.6			0.4	20/1	4
5	GEN RM RECEPTACLES	20/1	0.3		0.5	0.2	20/1	MECH RM RECEPTACLES	6
7	GEN RM RECEPTACLES	20/1	0.3	0.3			0.0	20/1	8
9	INTAKE LOWER HOA ENCLOSURE	20/1	0.1	1.1			1.0	20/1	10
11	GEN RM INTERIOR LIGHTING	20/1	0.2		0.4	0.2	20/1	JACKET WATER HEATER	12
13	FUEL POLISHING SYSTEM	20/1	0.1	0.1			0.0	20/1	14
15	CHLORINE ANALYZER	20/1	0.1		0.1		0.0	20/1	16
17	PUMP CONTROL PANEL	20/1	0.5		0.7	0.2	20/1	GEN RM MECHANICAL CONTROLS	18
19	NETWORK PANEL	20/1	0.5	0.5			0.0	20/1	20
21	SPARE	20/1	0.0		0.0		0.0	20/1	22
23	SPARE	20/1	0.0		0.1	0.1	20/1	GENSET E-STOP SHUNT TRIP	24
25	SPARE	20/1	0.0	0.0			0.0	"POWER FAIL" RELAY	26
27	SPARE	20/1	0.0		0.0		0.0	SPACE	28
29	SPARE	20/1	0.0		0.0	0.0		SPACE	30
TOTAL CONNECTED LOAD = 6.0 KW/ 17 AMPS		2.5		1.8	1.7		ALL BREAKERS SHALL BE 10 HAC RATED, MINIMUM.		

PANEL MDP		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION	
		400A	277/480V, 3ø, 4W		SURFACE		LUSS	PUMP STATION BUILDING	
CRT NO.	DESCRIPTION	C/B SIZE	CRT	Aø	Bø	Cø	CRT SIZE	C/B SIZE	CRT NO.
1	45 KVA TRANSFORMER	80/3	2.5	39.1			36.6		2
3	(FEEDS PANEL A)			36.4			36.6		4
5			1.7				36.3		6
7			1.0	2.0			1.0		8
9	3øW UNIT HEATER	15/3	1.0		2.0		1.0	15/3	10
11			1.0		2.0		1.0		12
13			0.0	0.0			0.0		14
15	SURGE PROTECTIVE DEVICE	60/3	0.0		0.0		0.0		16
17			0.0				0.0		18
TOTAL CONNECTED LOAD = 121.8 KW/ 147 AMPS		41.1		40.4	40.3		ALL BREAKERS SHALL BE 18 HAC RATED, MINIMUM.		



NO.	DATE	RECORD OF REVISIONS	BY

MORRIS
ENGINEERING GROUP INC.
2715 JORDAN AVE #7
JUNEAU, AK 99801
(907) 782-2350
info@morrisingroup.com
www.morrisingroup.com



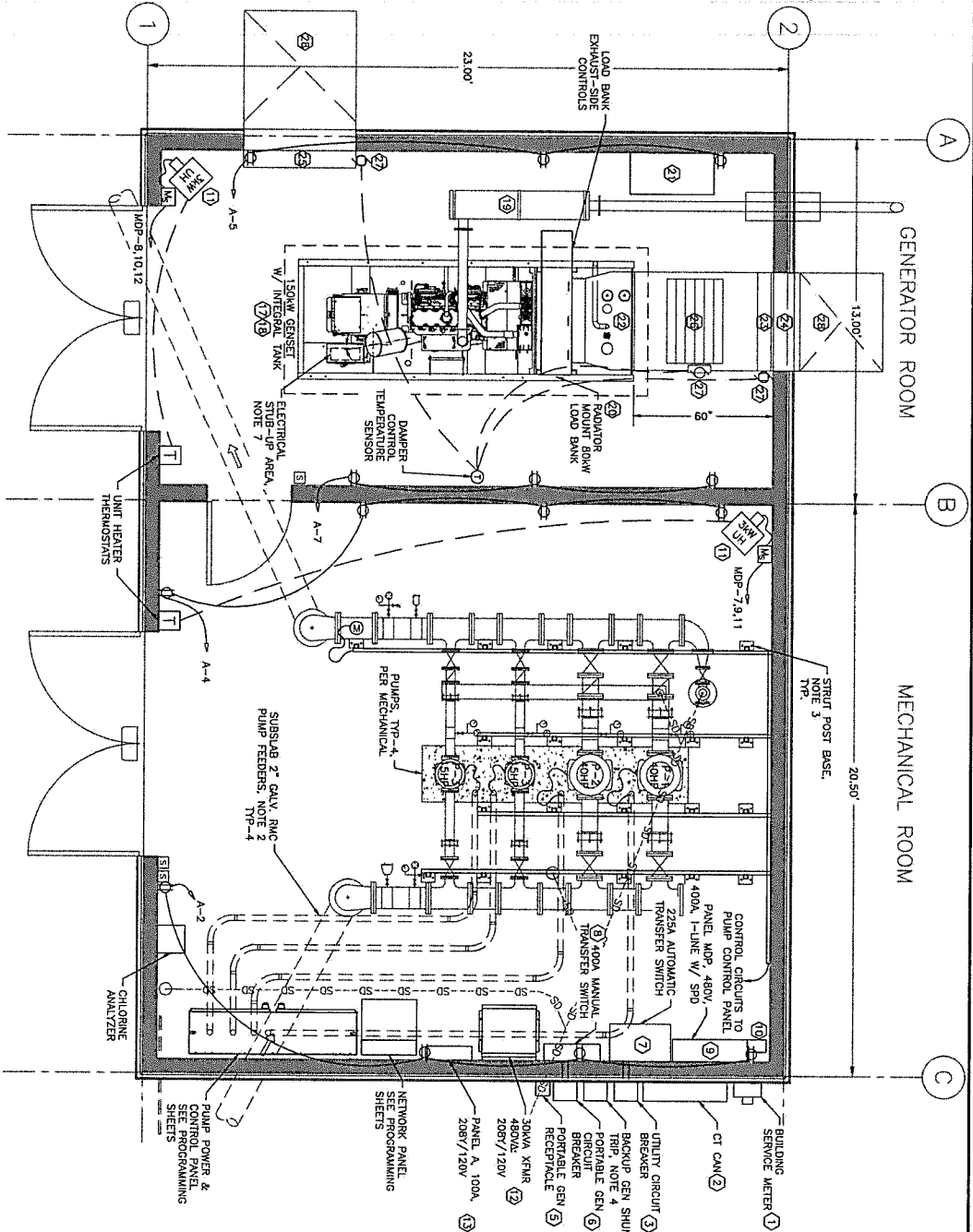
**COPE PARK
PUMP STATION
REPLACEMENT**
BE25-317

**ELECTRICAL
BUILDING FLOOR
PLAN**

SHEET NUMBER
E-07

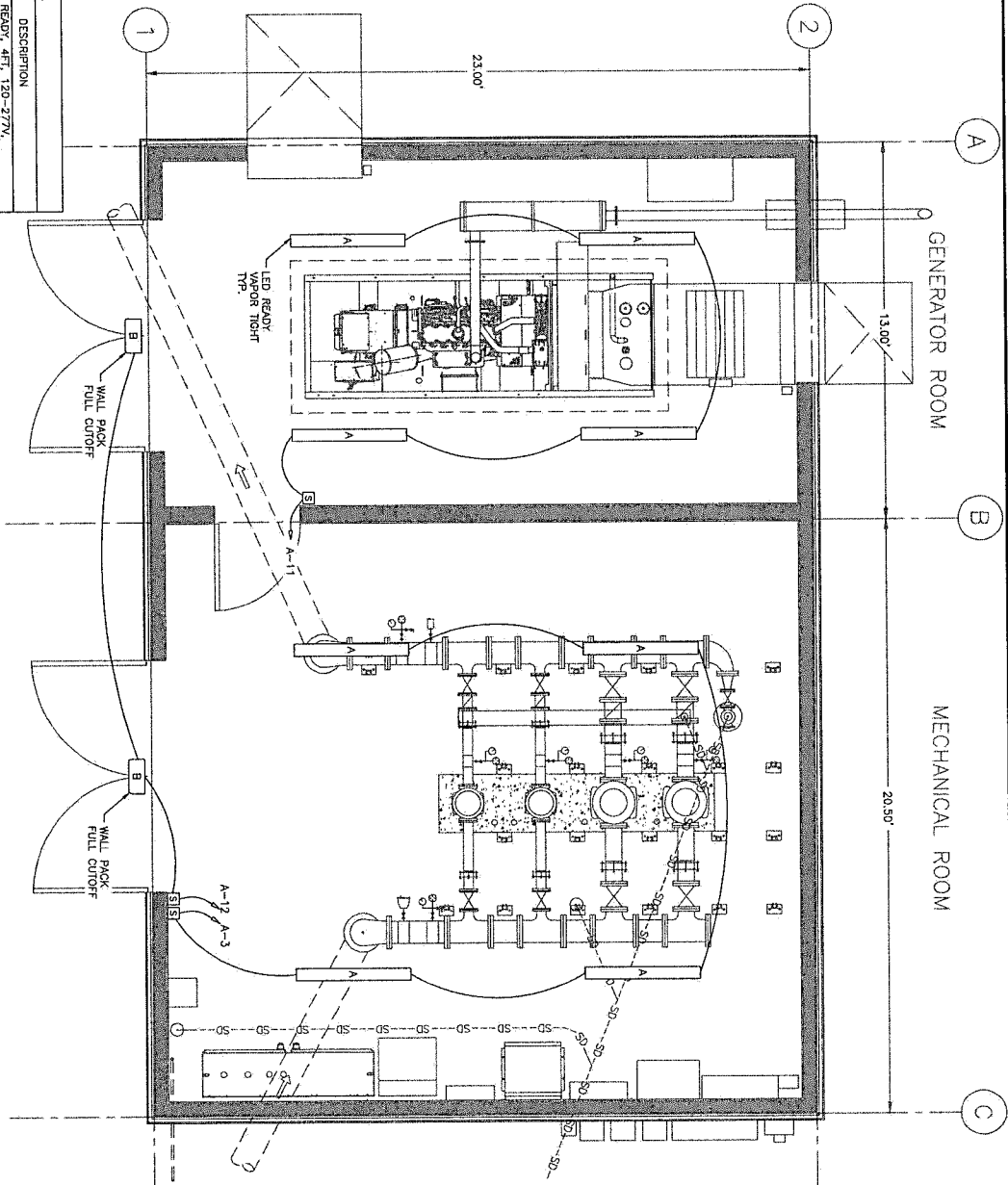
20a 125v receptacles be GFCI per NEC Article 210.8(B)(6)

1 ELECTRICAL BUILDING FLOOR PLAN



- NOTES:
- SEE EQUIPMENT LIST SHEET E-04, FOR EQUIPMENT REMOTE REFERENCE DESCRIPTIONS.
 - INSTALL 2\"/>

- NOTES:
1. MOUNT VAPOR TIGHT LED READY TO THE CEILING. FIXTURES AND CONDUIT SHALL AVOID CONFLICT WITH PUMP SUPPORT RAILS ON THE CEILING.
 2. EXTERIOR WALL PACKS SHALL BE FULL CUT OFF. WALL PACKS SHALL OPERATOR ON A DAY/NIGHT PHOTOCELL AND OCCUPANCY SENSOR.




LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	P/N	DESCRIPTION
A	SUNCO	PRE-B724W1TR	VAPOR TIGHT LED READY, 4FT, 120-277V, DOUBLE-END TYPE B DIRECT WIRE AND TYPE C TUBES, SURFACE MOUNT, 2-4 LAMPS, TB, LED LAMPS
B	RAB LIGHTING	SLM177AFRC OR EQUAL	WALL PACK, FULL CUTOFF, FIELD ADJUSTABLE COLOR TEMPERATURE, 40W, BLACK FINISH, WITH ON/OFF PHOTOCELL AND OCCUPANCY SENSOR, MOUNT CENTER OF DOOR, 2' ABOVE FRAME


1 ELECTRICAL BUILDING LIGHTING PLAN



No.	DATE	RECORD OF REVISIONS	BY



MORRIS
ENGINEERING GROUP LLC
2015 JORDAN AVE #7
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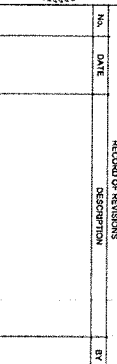


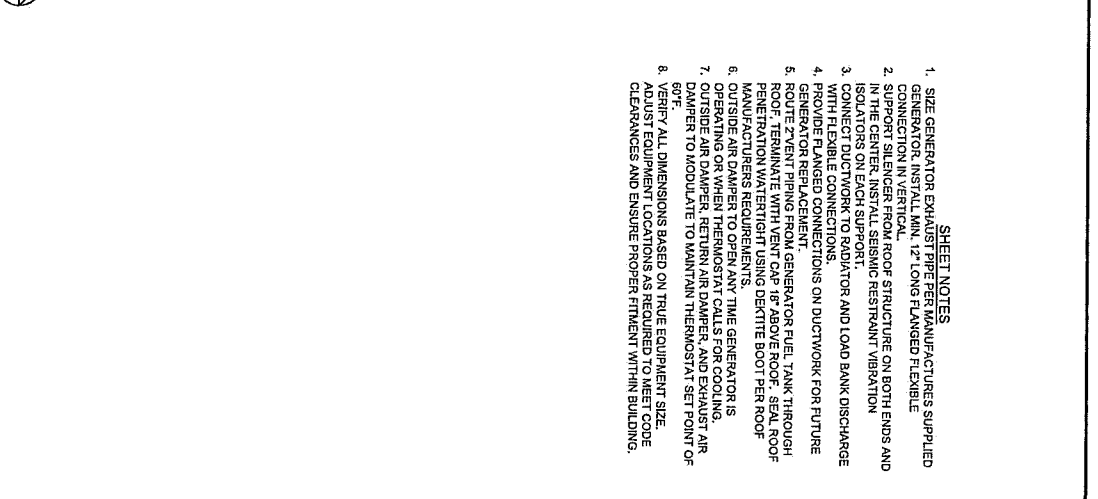
CITY AND BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY
ENGINEERING & PUBLIC WORKS

COPE PARK
PUMP STATION
REPLACEMENT
BE25-317

ELECTRICAL
LIGHTING PLAN

SHEET NUMBER
E-08





1. SIZE GENERATOR EXHAUST PIPE PER MANUFACTURER'S SUPPLIED GENERATOR INSTALLATION. 12" LONG FLANGED FLEXIBLE.
2. SUPPORT SILENCER FROM ROOF STRUCTURE ON BOTH ENDS AND IN THE CENTER. INSTALL SEISMIC RESTRAINT VIBRATION ISOLATORS ON EACH SUPPORT.
3. CONNECT DUCTWORK TO RADATORS ON DUCT BANK DISCHARGE WITH FLEXIBLE CONNECTIONS.
4. PROVIDE SUPPORT CONNECTIONS ON DUCTWORK FOR FUTURE GENERATOR REPLACEMENT.
5. ROUTE EVENT PIPING FROM GENERATOR FUEL TANK THROUGH ROOF. TERMINATE WITH VENT CAP 18" ABOVE ROOF. SEAL ROOF PENETRATION WITH WATERPROOF USING DEBRITE BOOT PER ROOF MANUFACTURER'S REQUIREMENTS.
6. OUTSIDE AIR DUCTWORK TO OPEN AT THE GENERATOR'S EXHAUST. PROVIDE AIR DUCTWORK TO EXHAUST OUTSIDE AIR DUCTWORK. RETURN AIR DUCTWORK AND EXHAUST AIR DUCTWORK TO MODULATE TO MAINTAIN THERMOSTAT SET POINT OF 60°F.
6. VERIFY ALL DIMENSIONS BASED ON TRUE EQUIPMENT SIZE. ADJUST EQUIPMENT LOCATIONS AS REQUIRED TO MEET CODE REQUIREMENTS AND ENSURE PROPER FITMENT WITHIN BUILDING.

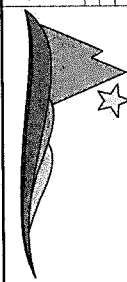


RECORD OF REVISIONS	
No.	DATE

MODERN MECHANICAL
 Mechanical Engineers
 1001 Bala Sea Rd
 Pompano Beach, FL 33062
 (954) 721-4477
 modernmech.com
 15001 BLACK BEACH RD.
 (907) 723-0020

DESIGNED BY: WML
 CHECKED BY: SHH
 MODERN MECHANICAL, LLC
 15001 BLACK BEACH RD.
 (907) 723-0020

CERTIFICATE OF AUTHORIZATION



**COPE PARK PUMP
 STATION REPLACEMENT**

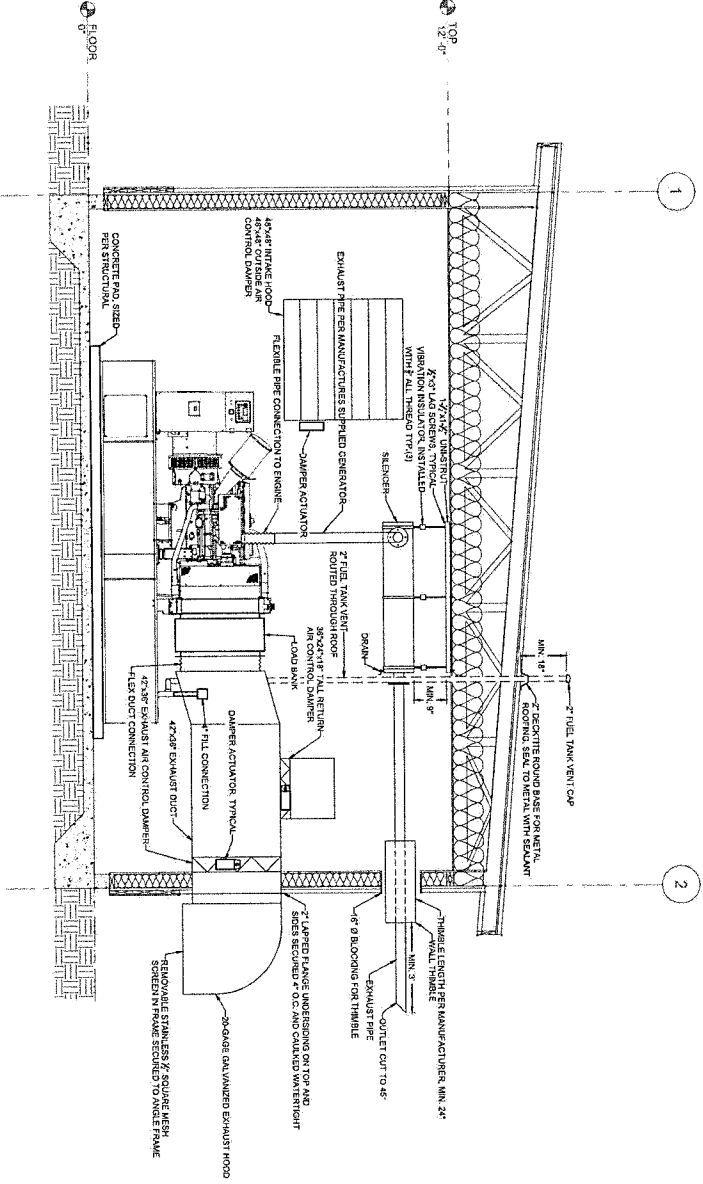
BE25-317

**GENERATOR
 MECHANICAL
 SECTION**

SHEET NUMBER
E-10

1 GENERATOR MECHANICAL SECTION
 1/4"=1'-0"

SCALE: 0 2' 4' 8'



[illegible]

ALASKA

AUTOMATION

CERTIFICATE OF AUTOMATIZATION

#212397

DESIGN BY:	BAR
DESIGNED BY:	BOB
CHECKED BY:	KIR

210 GENERAL WAY
JUNEAU, ALASKA 99801
(907) 586-4482

ukh@alaskaautomation.com

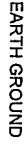
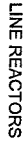
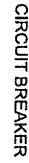
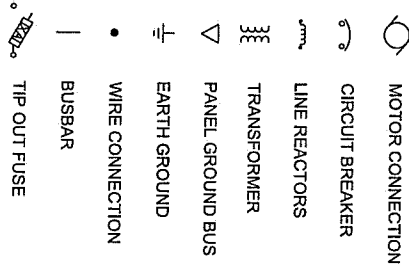
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ALASKA CAPITAL CITY

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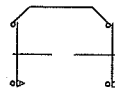
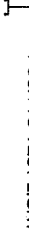
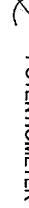
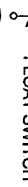
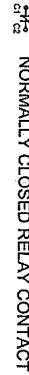
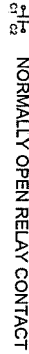
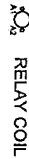
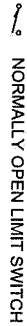
COPE PARK PUMP
STATION
REPLACEMENT

LEGEND	SHEET NUMBER
	P-01

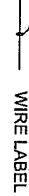
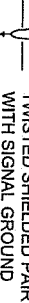
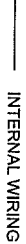
POWER SYMBOLS



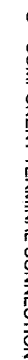
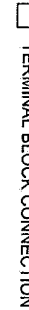
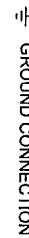
CONTROL SYMBOLS



WIRING



GENERAL





NO.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

ALASKA AUTOMATION

CERTIFICATE OF AUTHORIZATION #17231

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(907) 725-3441

blake@alaskaautomation.com

CITY AND BOROUGH OF JUNEAU

ENGINEERING & PUBLIC WORKS

COPE PARK PUMP STATION REPLACEMENT

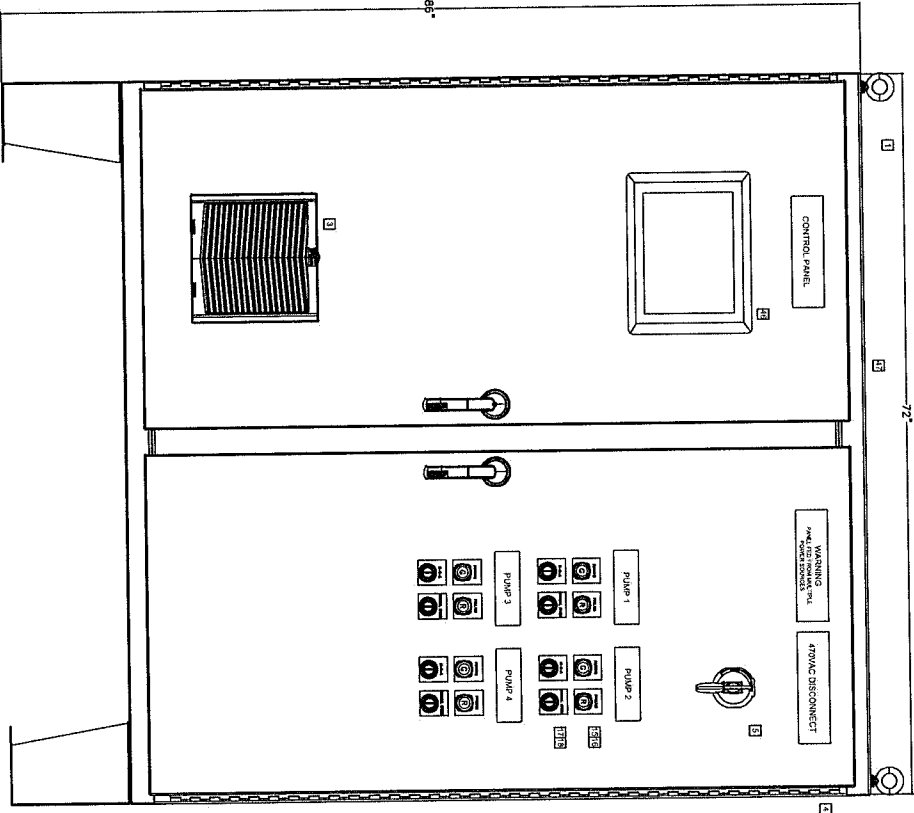
BE25-317

PANEL LAYOUT

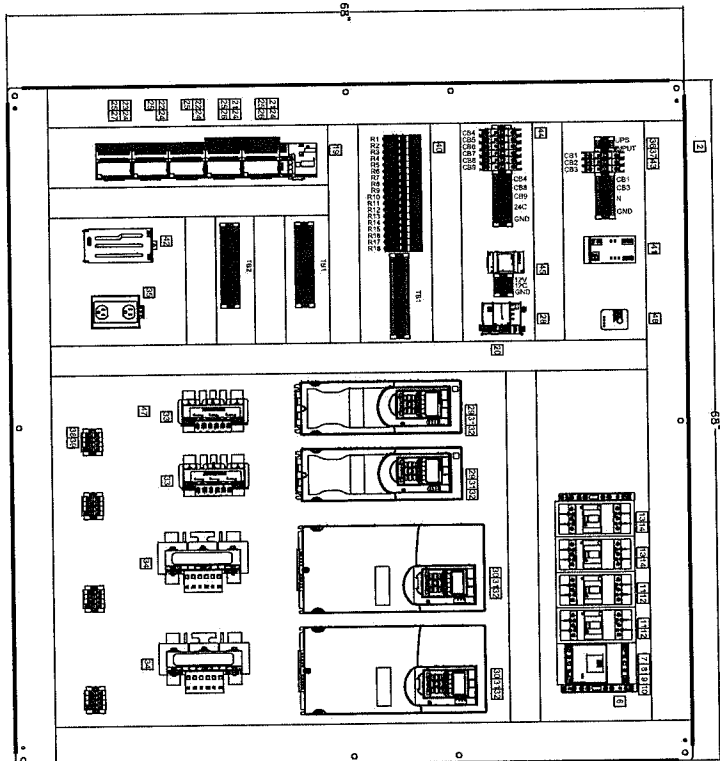
P-02

SHEET NUMBER

1 ENCLOSURE



2 PANEL



- NOTES:
1. PANEL TO BE UL508A LISTED.
 2. BOND ENCLOSURE DOOR PER NEC.
 3. BOND TERMINALS PER NEC.
 4. PANEL LAYOUT FOR GUIDANCE ONLY.

Item	Quantity	Part Number	Description	Manufacturer
1	1	A74H7218LP3PT	Two-Door Floorstand and 3pt Latch Type 4, 74.06x72.06x18.06, Gray, Steel	Hoffman
2	1	A72P72	Panel for Type 3R 4 4X 12 13 Enclosure, fits 62x72, White, Steel	Hoffman
3	1	HF1316523	HF13 Side-Mount Filter Fan, 115V 197CFM, Black	Hoffman
4	1	HG1300503	HG Filter Fan Exhaust Grille IPS4, fits HF13 fans 13-inch, Black, Plastic.	Hoffman
5	1	140G-H-RVM218	140G/1494V Product Handle Accessories/Operating Mechanisms, 140G Rotary, Rotary Handle, 21 inches, Black	Allen Bradley
6	4	141A-TR3	Busbar, 20 x 10 mm (520 Amps), 800 mm in length, Priced per Piece, must buy in multiples of 3	Allen Bradley
7	1	141A-BCR	Provides isolation between busbar and panel (required for feeder circuit applications per UL 508A)	Allen Bradley
8	1	141A-B2010A	Busbar, 20 x 10 mm (520 Amps), 800 mm in length, Priced per Piece, must buy in multiples of 3	Allen Bradley
9	1	140G-J3F3-D20-MB	140G - Molded Case Circuit Breaker, J frame, 35 kA Interrupt Rating, T/M, 3 Poles, 200 A, Busbar Mount	Allen Bradley
10	1	140G-J-TLA1A3	Frame-J, Terminal Lug, Qty 3, FCCuAl 1x4-300(25-150)	Allen Bradley
11	2	140G-G2C3-D12-MT	140G - Molded Case Circuit Breaker, G frame, 25 kA Interrupt Rating, T/M, 3 Poles, 125 A, Standard Busbar Mount	Allen Bradley
12	2	140G-G-TLA13	Frame-G, Terminal Lug, CuAl 1x10-2/0 AWG(4-70mm2), Qty3	Allen Bradley
13	2	140G-G2C3-C25-MT	140G - Molded Case Circuit Breaker, G frame, 25 kA Interrupt Rating, T/M 3 Poles, 25 A, Standard Busbar Mount	Allen Bradley
14	2	140G-G-TLC13	Frame-G, Terminal Lug, Qty 3, FCCu 1x14-1/0(2.5-50)	Allen Bradley
15	4	800H-QRTH2G	30.5mm Type 4/4X/13 Pilot Light, LED, Green, 12-130V AC/DC, 1 NO-1 NC	Allen Bradley
16	4	800H-QRTH2R	30.5mm Type 4/4X/13 Pilot Light, LED, Red, 12-130V AC/DC, 1 NO-1 NC	Allen Bradley
17	4	800H-JR2B	3 Position Selector Switch, White, Std. Knob Maint., 3 Position	Allen Bradley
18	4	800H-UR29	30.5mm Type 4/4X Potentiometer Unit, 10 Kilohms Resistive Element	Allen Bradley
19	1	5094-AENTR	5094 Ethernet Adapter 8 Modules RJ45	Allen Bradley
20	1	5069-RTB64-SCREW	5069 Compact I/O Power terminal RTB kit for both 4 and 6 pin Screw type	Allen Bradley
21	2	5094-IF8	5094 Analog 8 Input	Allen Bradley
22	2	5094-IB16	5094 Digital 16 Input	Allen Bradley
23	1	5094-OB16	5094 Digital 16 Output	Allen Bradley
24	5	5094-MB	5094 Mounting Base	Allen Bradley
25	5	5094-RTB3	5094 RTB Screw	Allen Bradley
26	1	5094-STB-QTY5	5094 Shield RTB Screw - Pack of 5	Allen Bradley
27	1	5094-ECR-QTY5	5094 End Cap	Allen Bradley
28	1	5069-L306ER	Controller, Compactlogix 5380, 600 KB User Memory, 8 I/Os, 16 Ethernet/IP Devices	Allen Bradley

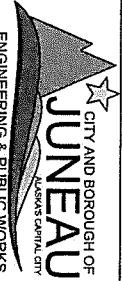


NO.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

ALASKA AUTOMATION

210 ADMIRAL WAY
JUNEAU, AK 99801
(907) 755-2444

CERTIFICATE OF AUTHORIZATION #1234567
State of Alaska Department of Transportation



COPE PARK PUMP STATION REPLACEMENT

BE26-317

MATERIAL LIST

P-03

Item	Quantity	Part Number	Description	Manufacturer
29	2	20G21ND022JA0NNNNNN	PowerFlex 75STS AC Drive, with dual Embedded EtherNet/IP, Open Type, 480 VAC, 3 PH, 22 Amps, 15HP ND	Allen Bradley
30	2	20G21ND053JA0NNNNNN	PowerFlex 75STS AC Drive, with dual Embedded EtherNet/IP, Open Type, 480 VAC, 3 PH, 53 Amps, 40HP ND	Allen Bradley
31	4	20-750-2262C-2R	PF750-24V I/O Module-2A, 2A0, 6DI, 2RO	Allen Bradley
32	4	20-HIM-A6	PowerFlex Architecture Class Enhanced HIM, NEMA 1	Allen Bradley
33	2	KDRB2L	KDR, 480V, 15HP, 25A Max, 3 Phase, Open, Input Line Inductor, Low Impedance, UL Listed	TCI
34	2	KDRCL	KDR, 480V, 55A, 40HP, 3 Phase, Open, Input Line Inductor, Low Impedance, UL Listed	TCI
35	1	5600461	Rail-mounted dual power outlet with two 120 V AC/15 A receptacles for 35 mm DIN rail.	Phoenix Contact
36		3044102	Feed-through terminal block, nom. voltage: 1000 V, nominal current: 32 A.	Phoenix Contact
37		3044128	Ground terminal, number of connections: 2, connection method: Screw.	Phoenix Contact
38		3044199	Feed through terminal, number of connections: 2, connection method: Screw, 16-4AWG.	Phoenix Contact
39		3044212	Ground terminal, number of connections: 2, connection method: Screw, 16-4AWG.	Phoenix Contact
40	18	2905291	Preassembled relay module with Push-in connection. 2 contacts. Input voltage: 24 V DC.	Phoenix Contact
41	1	2907161	TRIO UPS - UPS with integrated power supply, Push-in connection, input: 1-phase, output: 24 V DC / 10 A	Phoenix Contact
42	1	1274117	Battery module (device with battery), VRLA-AGM, 24 V DC, 4 Ah	Phoenix Contact
43	1	FAZ-C10-1-NA-SP	Miniature circuit breaker, current-limiting, 10A	Eaton
44	8	FAZ-C5-1-NA-SP	Miniature circuit breaker, current-limiting, 5A	Eaton
45	1	PSL-12-30	PSL series switching power supply, 12 VDC, 120/240 VAC input, 1-phase	Rhino
46	1	CV-P2102	Cincoze Rugged Panel PC, i3 processor, 15", s128GB SSD, 16GB SO-DIMM, Auto On, Windows 11 Pro.	OnLogic
47	1	LEDD2S35	LED Light Kit, 1.34x1.26x13.82, VDC Motion Screw Mounting, Plastic.	Hoffman
48	1	THERM16F	Thermostat Controller, 115V Fahrenheit.	Hoffman



NO.	DATE	RECORD OF REVISIONS	BY
		DESCRIPTION	

ALASKA AUTOMATION

210 ANCHORAGE WAY
ANCHORAGE, AK 99503
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blake@alaskaautomation.com

CERTIFICATE OF AUTHORIZATION
#12345



COPE PARK PUMP STATION REPLACEMENT

BE25-317

MATERIAL LIST (CONTINUED)

P-04

SHEET NUMBER



No.	DATE	RECORD OF REVISIONS	BY
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ALASKA
AUTOMATION
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JUNEAU, AK 99801
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COPE PARK PUMP STATION REPLACEMENT
BE26-317

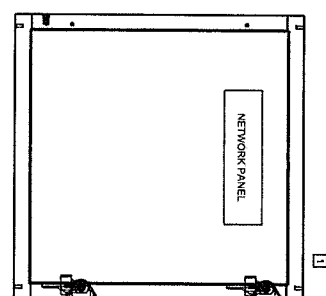
NETWORK PANEL

SHEET NUMBER
P-05

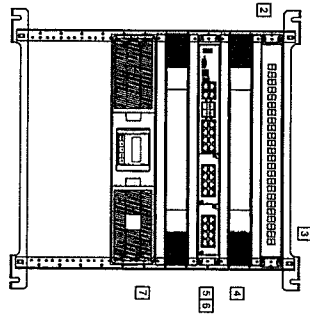
3 MATERIAL LIST

Item	Quantity	Part Number	Description	Manufacturer
1	1	PTHS242424G4	ProTek Double-Hinge Solid Type 4 4X 12, 24.09x23.62x24.02, Lt Gray, Steel	Hoffman
2	1	PTRA24T	ProTek Rack Angles Tapped, 21.00 12U, Plated Steel	Hoffman
3	1	FHU-FPP48FLCSMF	FHU 1U 19" Fiber Adapter Panel, 48 Fibers OS2 Single Mode, 24 x LC UPC Duplex (Blue) Adapter, Ceramic Sleeve	Hoffman
4	2	DCHS2	Cabletek Horizontal Cable Manager 2U Single Sided, fits 19in, Black, Composite	Hoffman
5	1	CRS328-4C-20S-4S+RM	Smart Switch, 20 SFP cages, 4 SFP+ cages, 4 Combo ports, 800MHz CPU, 512MB RAM, 1U rackmount case, Dual Power Supplies, Dual Boot	Mikrotik
6	2	S-3553LC20D	Two SFP (1.25G) module kit, 20Kv, single mode	Mikrotik
7	1	9PX1000RT	Eaton 9PX 1000VA Double Conversion Online UPS	Eaton

1 ENCLOSURE

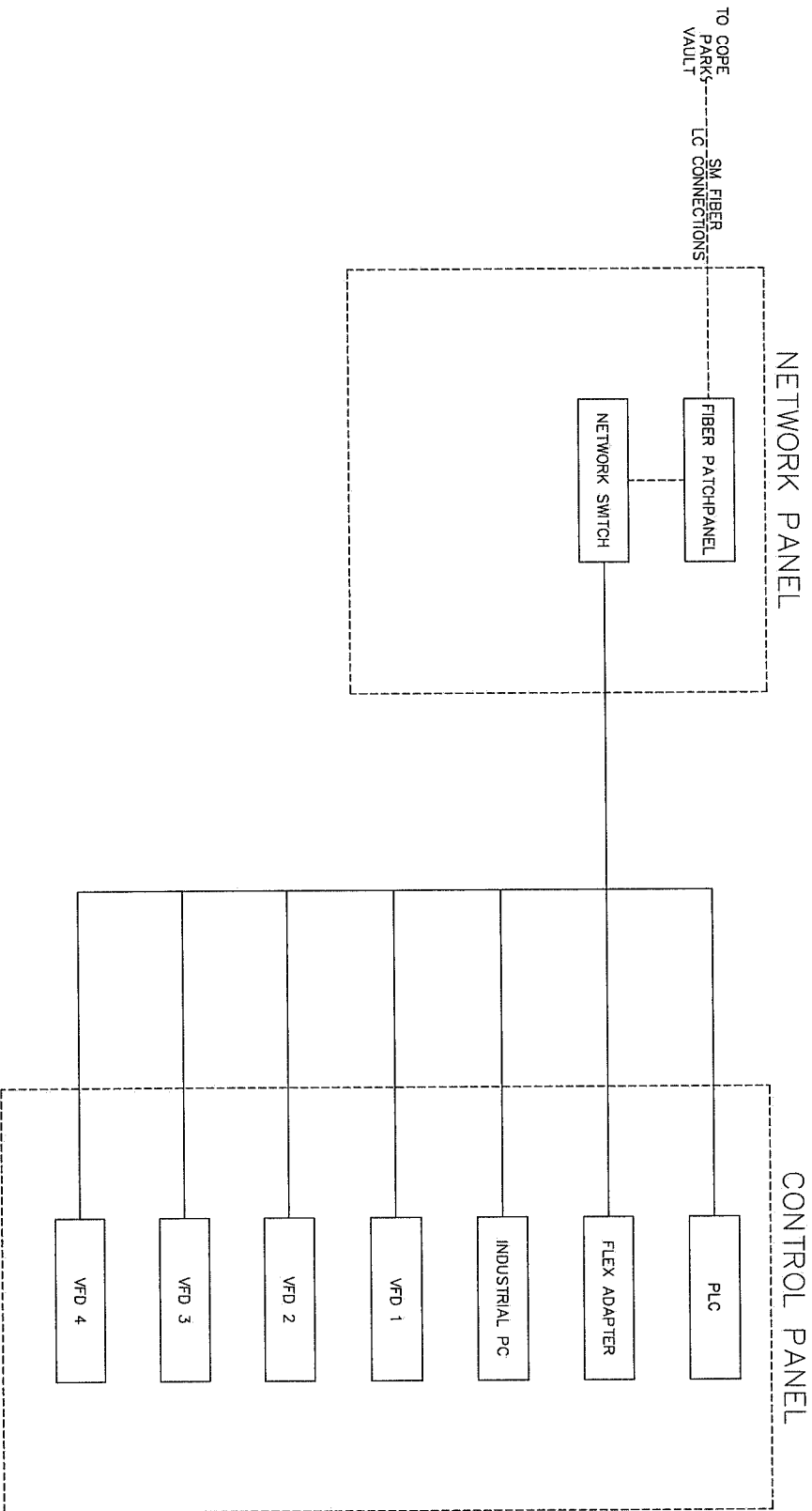


2 NETWORK GEAR



NOTES
1. TERMINATE ALL CONTROL PANEL NETWORK CONNECTIONS
IN NETWORK PANEL.

LEGEND
Fiber Optic 50/125, OM3, 10Gbps
CAT5E, 1000 Mbps



No.	DATE
RECORD OF REVISIONS	
DESCRIPTION	BY
DRAWN BY: SBR CHECKED BY: KFR DESIGNED BY: SBR DATE: 6/16/2025 210 AGUIRALA WAY JUNEAU, AK 99801 (907) 7254442 blake@alaskaautomation.com	
ALASKA AUTOMATION CERTIFICATE OF AUTHORIZATION ALASKA	
 CITY AND BOROUGH OF JUNEAU ALASKA'S CAPITAL CITY ENGINEERING & PUBLIC WORKS	
COPE PARK PUMP STATION REPLACEMENT BE25-317	
NETWORK DIAGRAM	
SHEET NUMBER P-06	



RECORD OF REVISIONS		
No.	DATE	BY

DESIGNED BY:	BSR
CHECKED BY:	KTR

210 ADMIRAL WAY
JUNEAU, AK 99801
(907) 725-5442

**ALASKA
AUTOMATION**

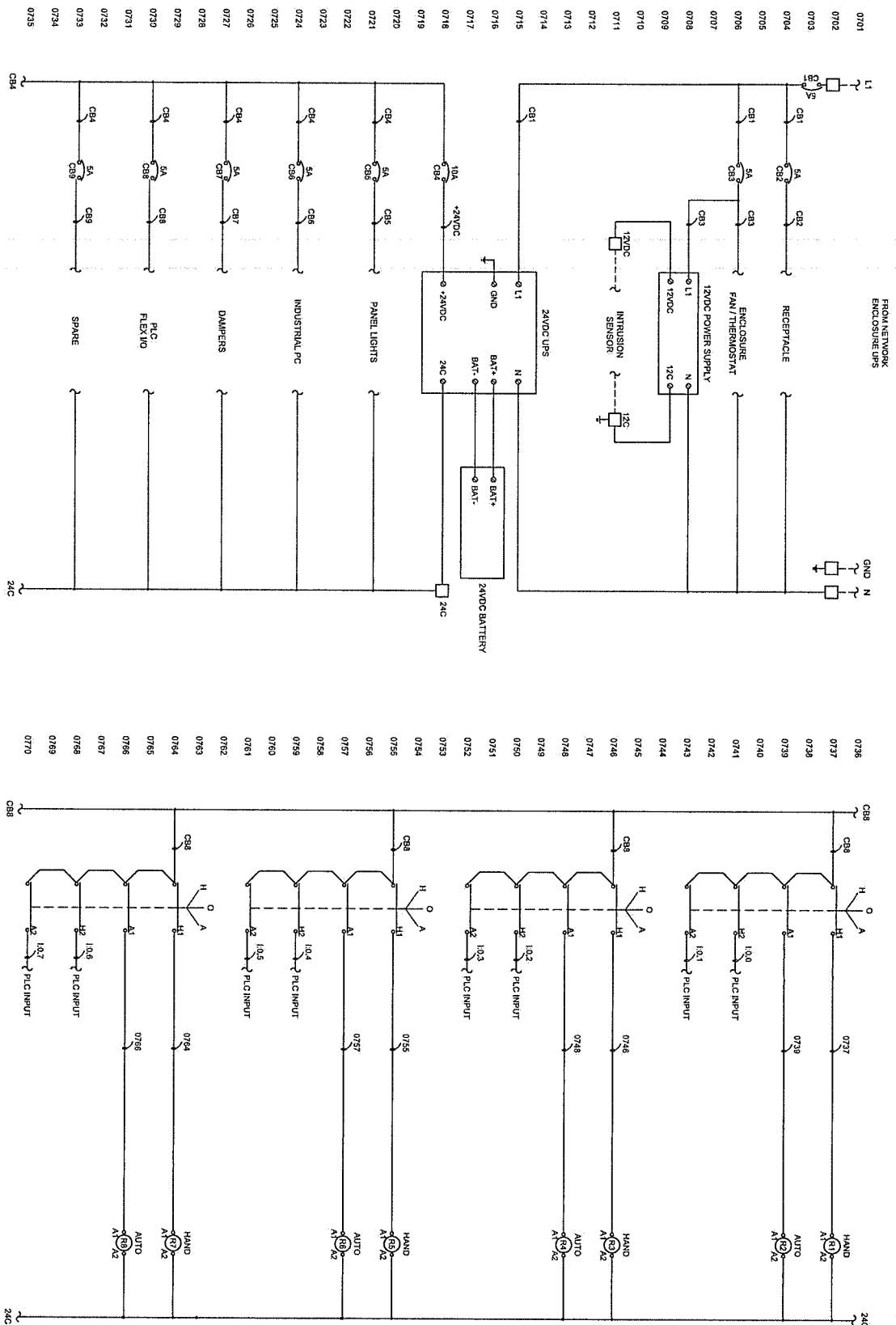
CERTIFICATE OF AUTHORIZATION

blake@alaskautilities.com



COPE PARK PUMP
STATION
REPLACEMENT

PANEL CONTROL	SHEET NUMBER
P-07	



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★ ALASKA ★
AUTOMATION ★ ★ ★

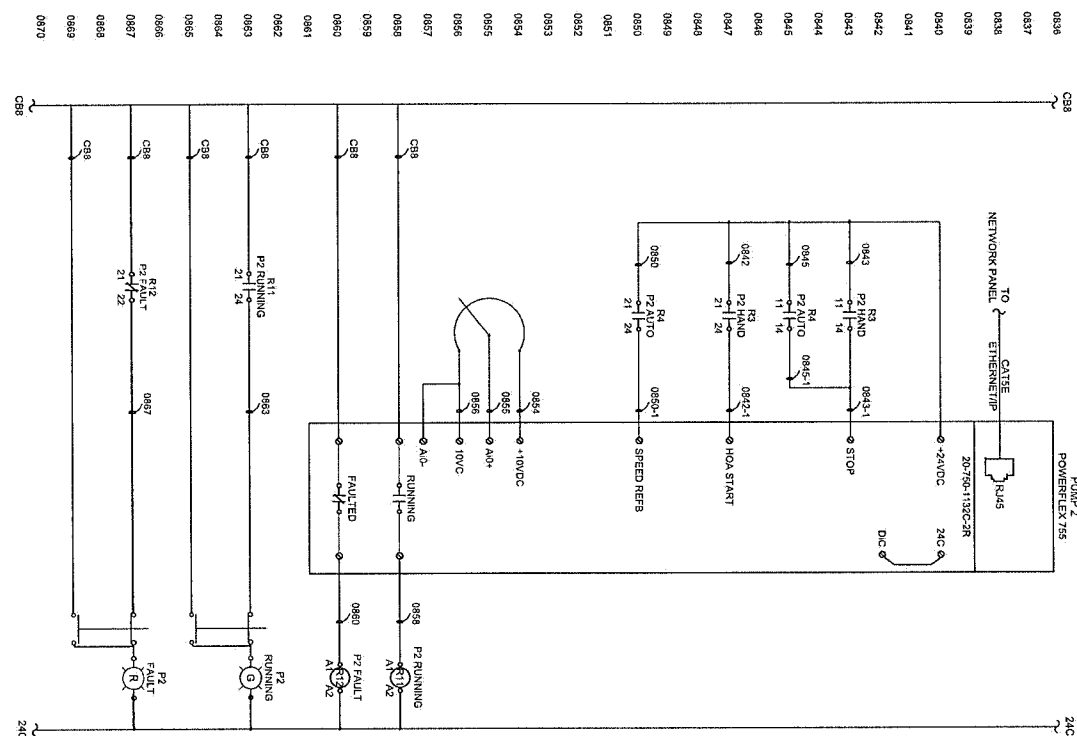
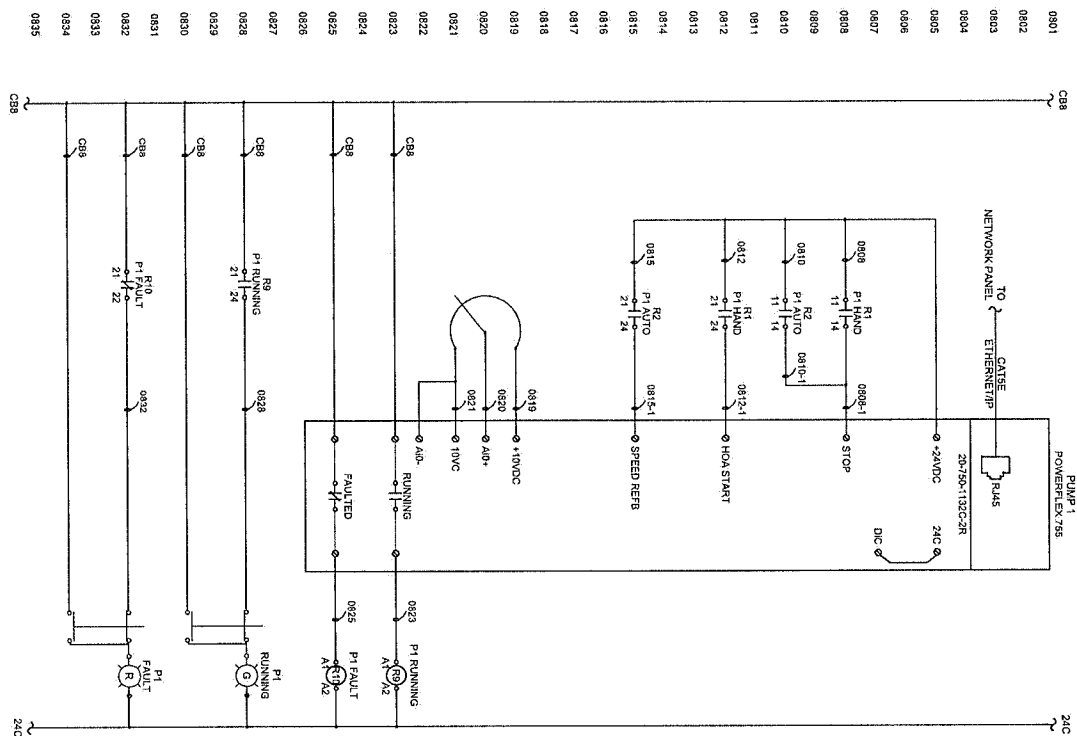
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DESIGNED BY:	BSR
CHECKED BY:	KFR

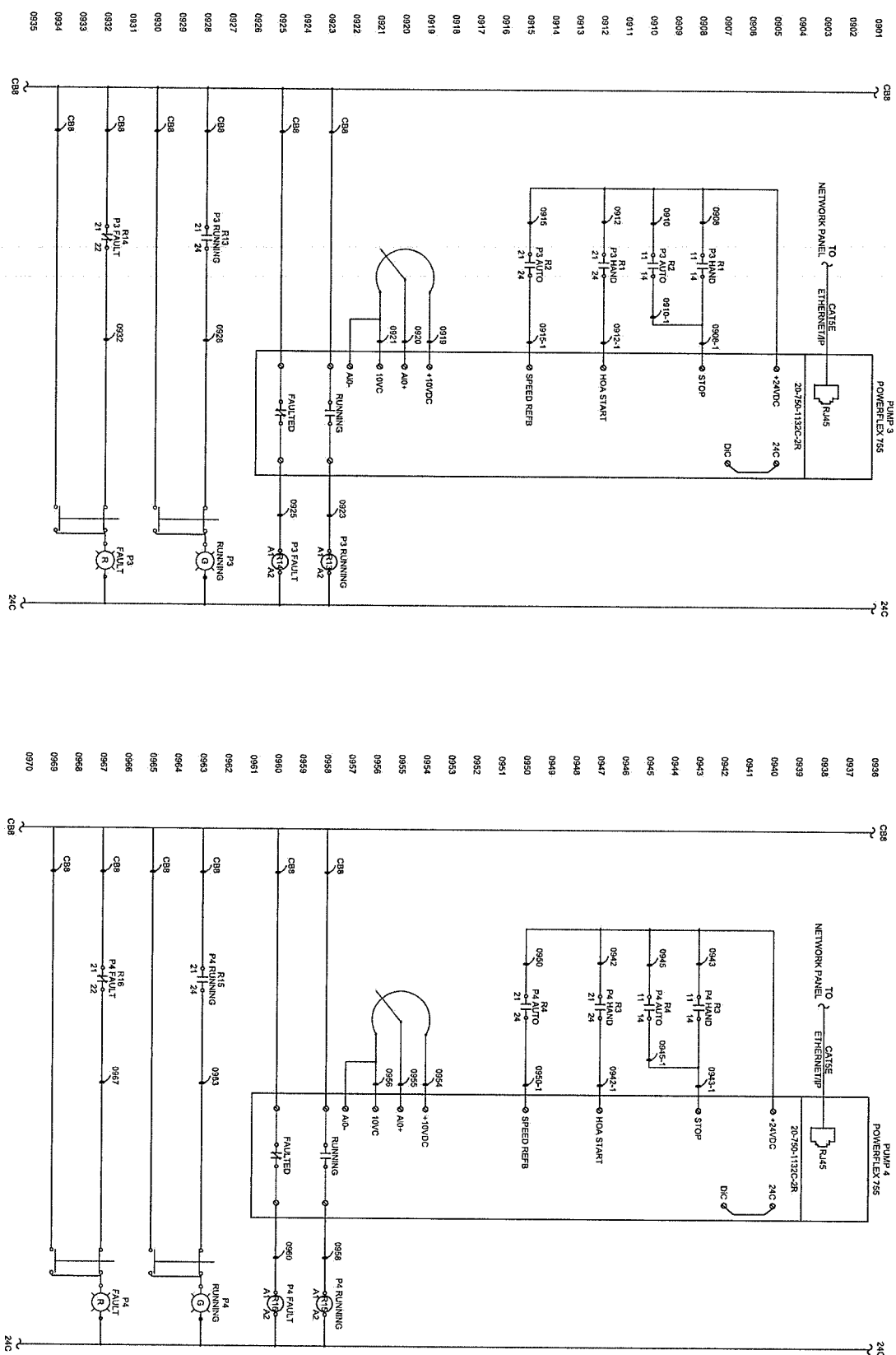
210 ADMIRAL WAY
JULIEU, AK 99801
(907) 725-3442



COPE PARK PUMP
STATION
REPLACEMENT
BE25-317

SHEET NUMBER	P-08
VFD DETAIL 1	







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		DESCRIPTION	

ALASKA AUTOMATION
 210 ADRIAN WAY
 JUNEAU, ALASKA 99801
 (907) 723-4442
 alaskaautomation.com

CERTIFICATE OF AUTHORIZATION
 J000250

DESIGNED BY: BBR
 CHECKED BY: KTR

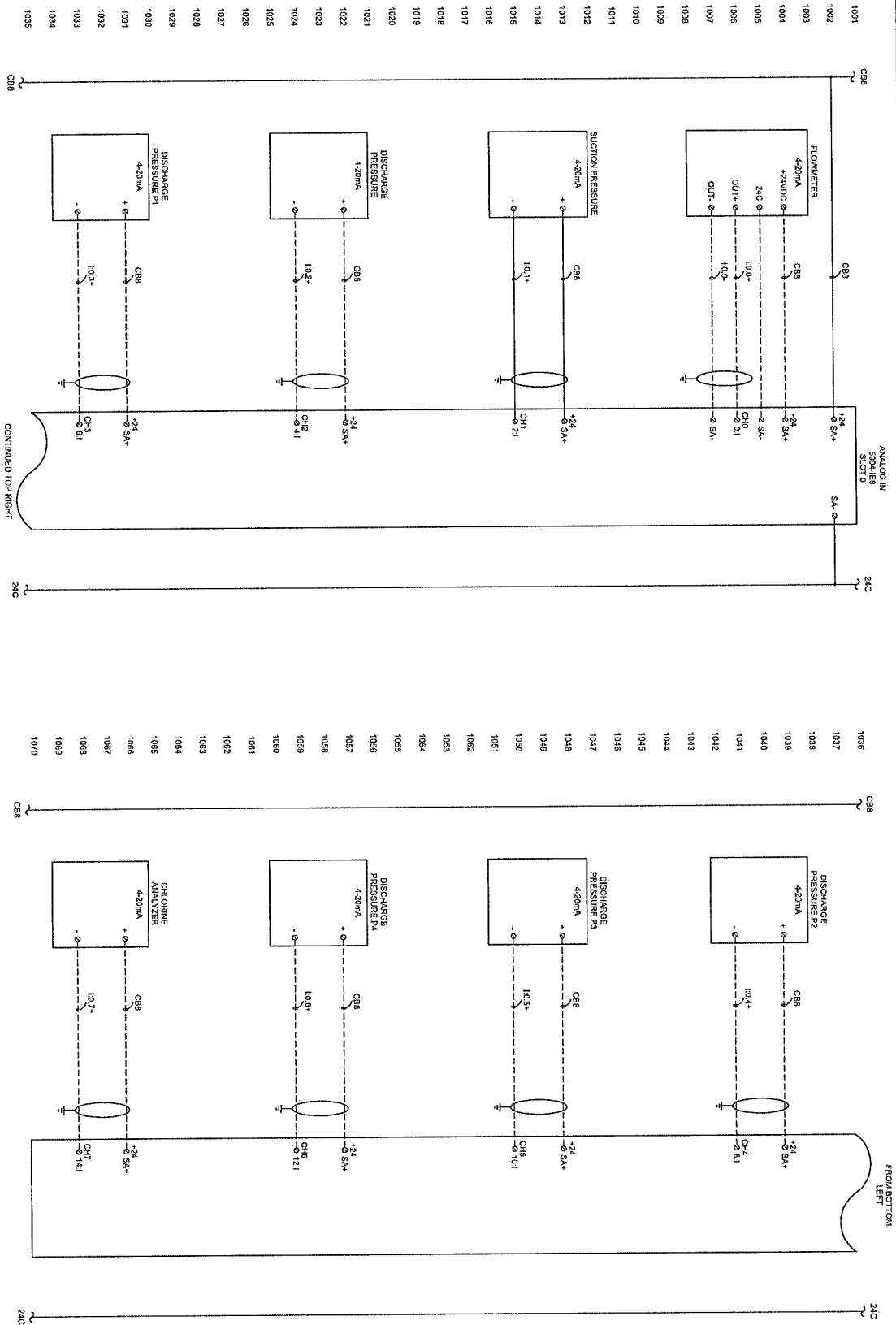
CITY AND BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY

ENGINEERING & PUBLIC WORKS

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 BE26-317

ANALOG INPUTS 1

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**ALASKA
AUTOMATION**

210 ADMIRAL WAY
JUNEAU, AK 99801
(907) 726-4642

CERTIFICATE OF AUTHORIZATION
#21237

John G. Johnson, P.E.
Juneau, Alaska

DRAWN BY:	BSH
DESIGNED BY:	BSH
CHECKED BY:	BSH

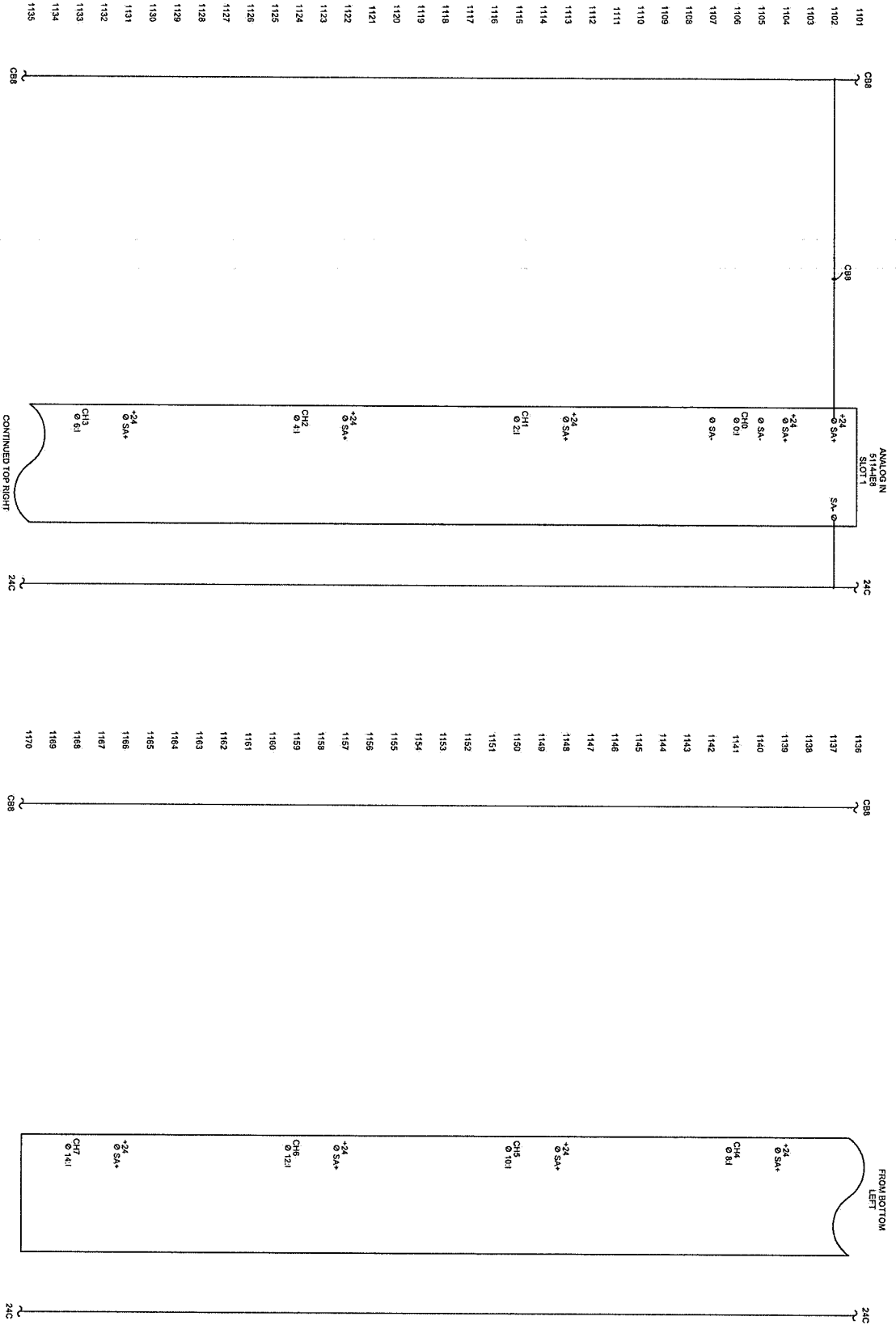


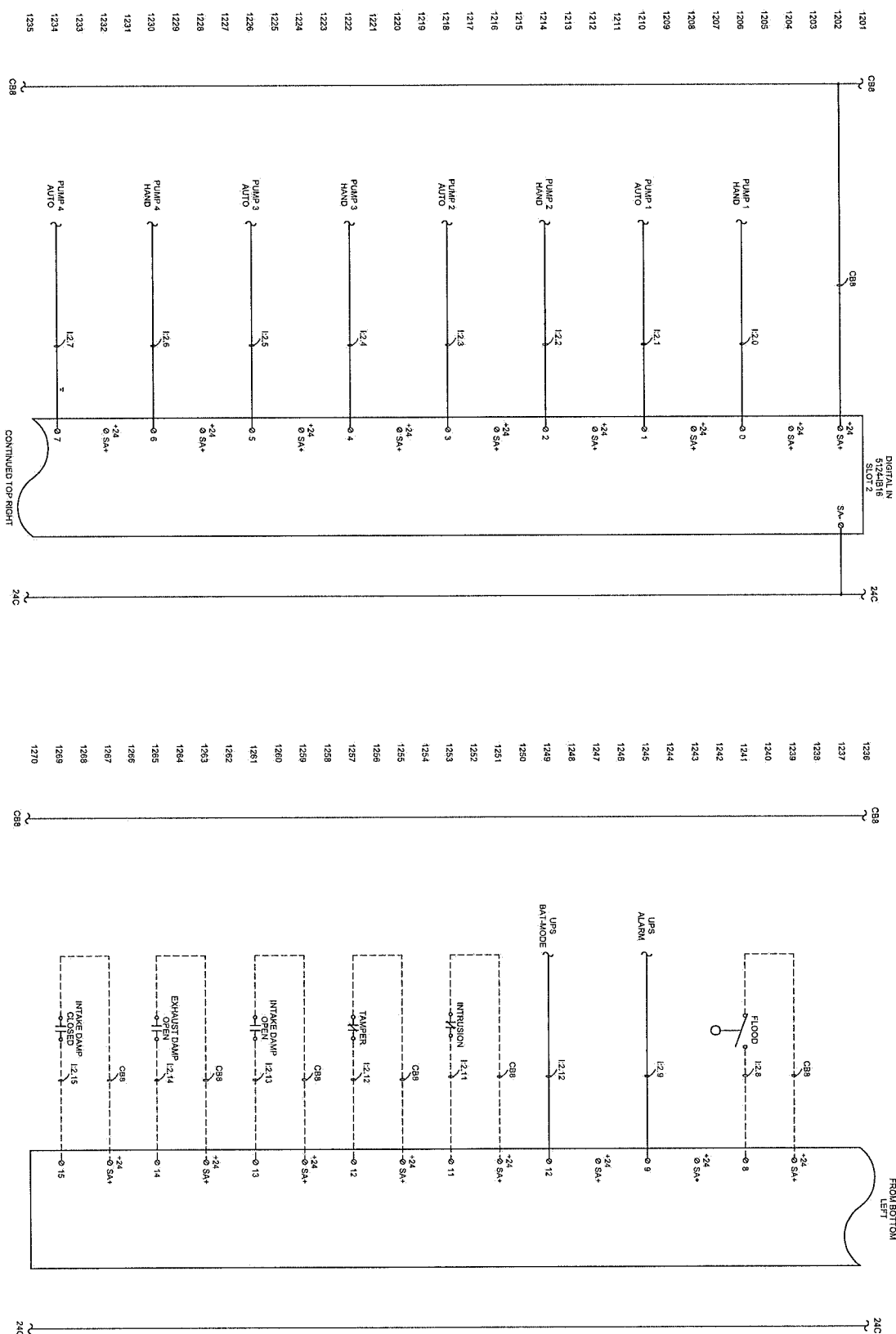
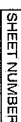
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ANALOG INPUTS 2

**SHEET NUMBER
P-11**







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		DESCRIPTION
		BY

ALASKA
AUTOMATION

CERTIFICATE OF AUTHORIZATION
#71237

DESIGNED BY: BSR
CHECKED BY: KRN

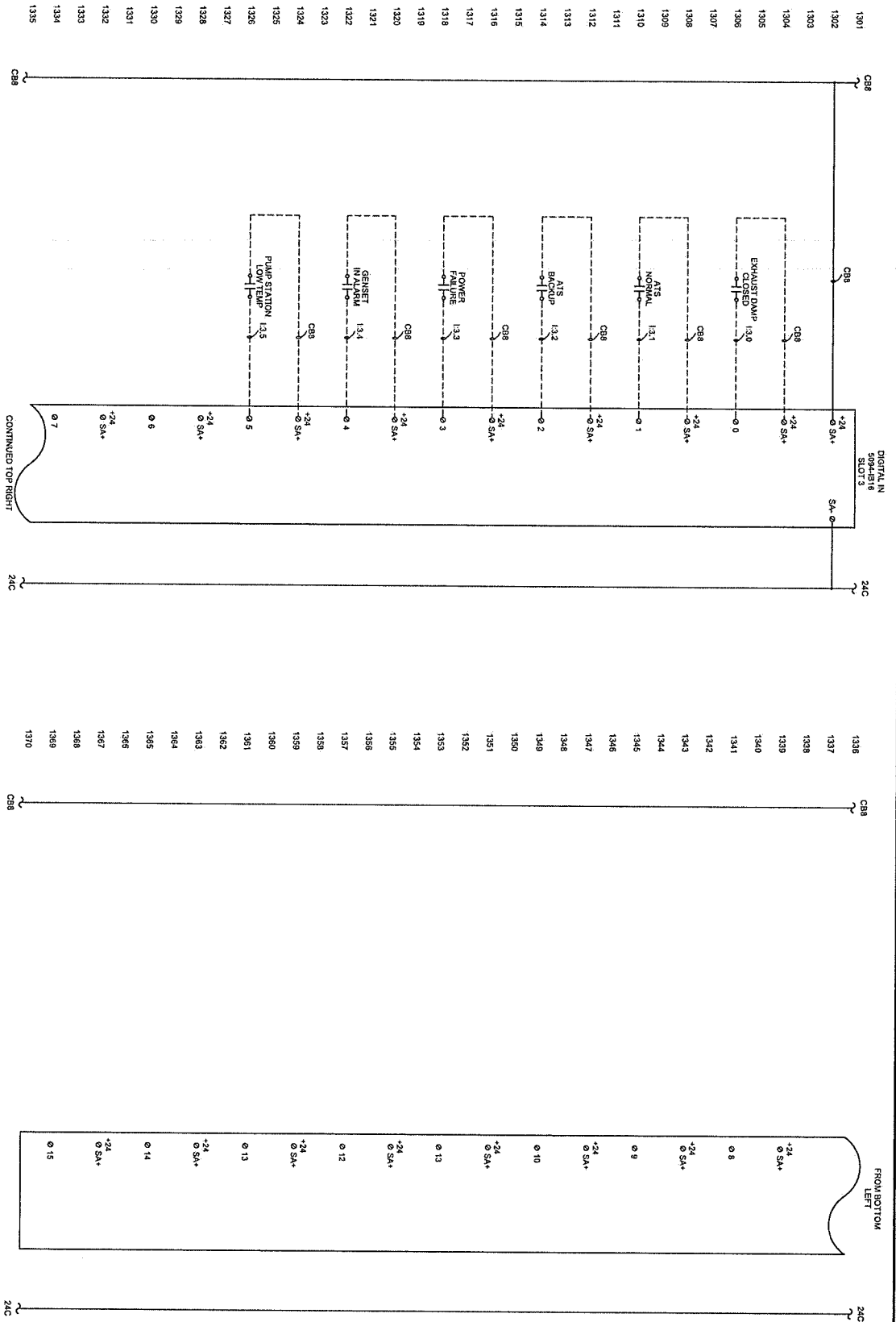
210 ADMIRAL WAY
JUNEAU, AK 99801
(907) 726-4442

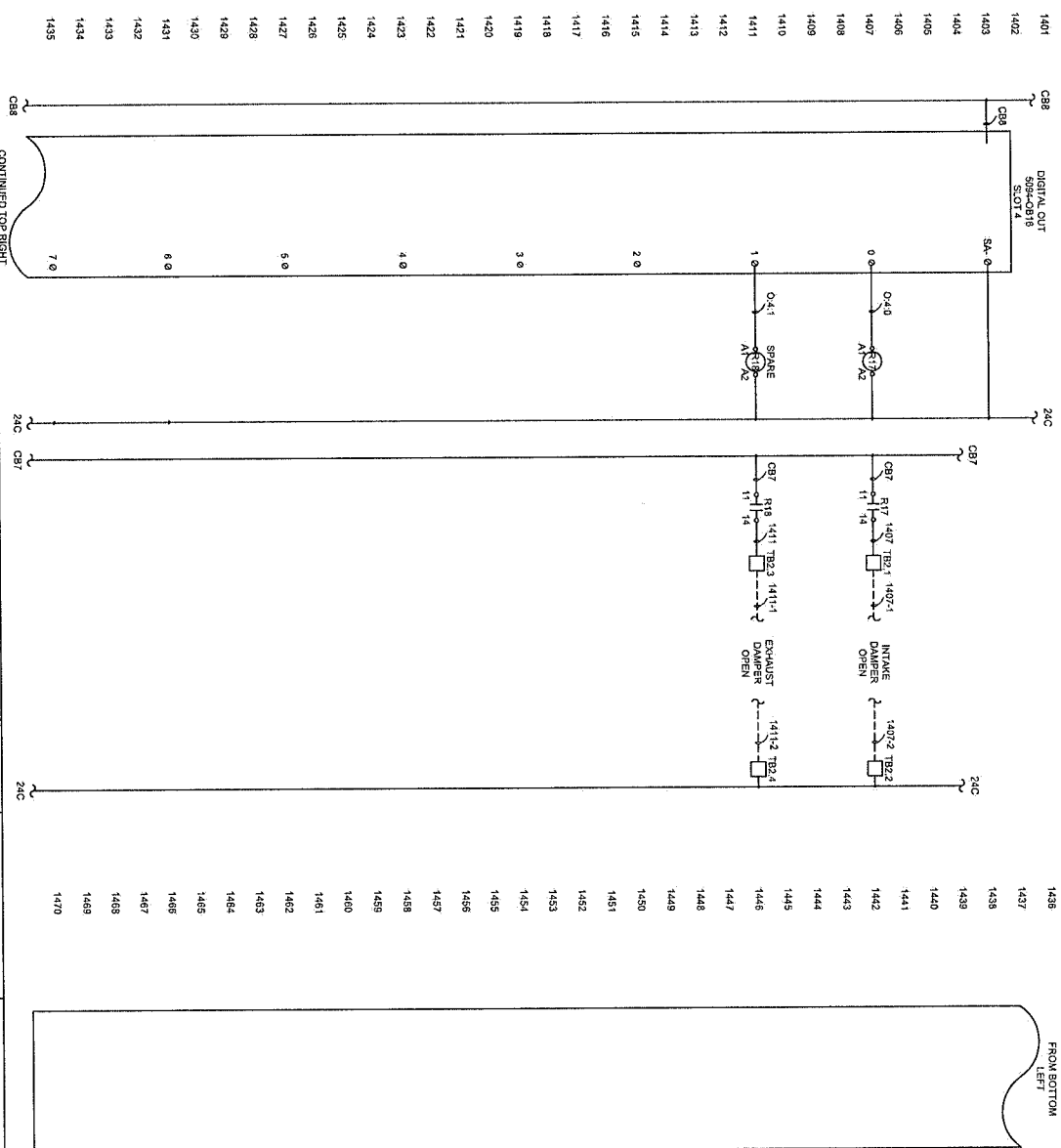
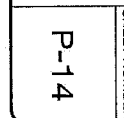


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SHEET NUMBER

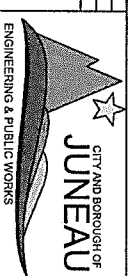






NO.	DATE	REVISION	BY

LAND SURVEYING LLC
9907 214-6700 2547 SWIN STREET, STUYA, AK
8000 CLOVER LANE, SUITE 201 102, JUNEAU, AK
MAILING ADDRESS: 5001 CLOVER STREET, JUNEAU, AK 99805
WWW.LANDSURVEYINGLLC.COM



COPE PARK PUMP STATION REPLACEMENT
BEEP-317

SURVEY CONTROL SHEET
PORTIONS OF FRACTION LODGE, USMS 76,
USS 4521, USMS 1013, AND IRWIN ADDITION
JUNEAU RECORDING DISTRICT

SHEET NUMBER
L-01

