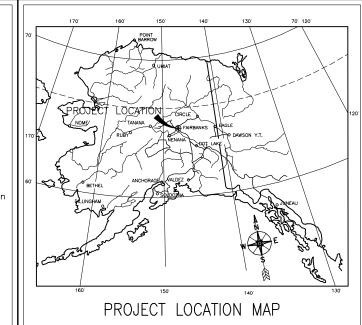
CITY OF FAIRBANKS - PWD - PUMP ENCLOSURES FAIRBANKS, ALASKA

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ABBREVIATIONS

AFF	above finished floor	F.O.S.	face of steel
ADJ.	adjustable	FOS	face of stud
ASD	allowable stress design	FIN	finished
&	and	FF	finished floor
AC	alternating current	FE	fire extinguisher
ARCH.	architectural	FX	fixed
ВМ	beam	FLSH.	flashing
BRG	bearing	FLR	floor
BLK	block	FL	fluorescent
BLKG.	blocking	FTR	future
B.O.S.	bottom of steel	GPM	gallons per minute
BOT	bottom	GALV	aalvanized
CTR	center	GA	gauge
¢	center line	вот.	grade
С	channel	HD.	hold down
C.E.	civil engineer	HP	h pile
BOT	bottom	HSS	hollow structural selection
CLR	clear	INFO.	information
COL	column	I.P.	in progress
CMPLT	complete	I.F.O.	inside face of
CONN	connection	INSUL	insulation
CONT.	continuous	INT	interior
DC	direct current	IBC	international building
DIA	diameter		code
DIM	dimension(s)	JT	joint
DR	door	L/S	liters per second
DBL	double	L'	angle
DWN	down	LLBB	long legs back to back
ELEC	electrical	LLH	long leg horizontal
E.E.	electrical engineer	LLV	long leg vertical
ELEV	elevation	MAINT	maintenance
EQ	equal	MTRL	material
EQUIP	equipment	MAX	maximum
(E)	existing	M.E.	mechanical engineer
EXP	expansion	MECH	mechanical
EXT	exterior	MTL	metal
FOC	face of channel	MIL	one thousandth of an inch

MISC miscellaneous (N) N.I.C. not in contract NIC not included N.F.S. non-frost susceptible not to scale number on center overhead door OMF ordinary moment frame P&ID piping and instrumentation diagram plate pounds per lineal foot pounds per square foot pre-finished PROJ. projection PMP gump reinforced required REV revision RM R.O. rough opening SCHD schedule SHT sheet(s) T&B top and bottom TOS top of concrete slab top of steel



OWNER

NAME CITY OF FAIRBANKS **ADDRESS** 800 CUSHMAN STREET CITY, STATE FAIRBANKS, AK 99701 PHONE: (907)459 - 6745CONTACT - TIM ZINZA

PRIME

NAME EEIS CONSULTING ENGINEERS INC. **ADDRESS** P.O. BOX 92169 CITY, STATE ANCHORAGE, ALASKA 99509 PHONE: (907) 258-3231

CONTACT - RICK BUTTON

SUBCONSULTANTS

MBA CONSULTING ENGINEERS, INC. **ADDRESS** 3812 SPENARD RD, STE 200 CITY, STATE ANCHORAGE, ALASKA 99687

PHONE: (907) 272-2622 CONTACT - ÈD CARLSON

SYMBOLS



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	-	1	-	1	-	_	-	-
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	2	07-14-23	IFC REV 2 - ADDED STRUCTURAL GENERAL NOTE - PAINT SPECIFICATION	၁	SA	BA	RB	RB
	1	07-06-23	IFC REV 1 - ADDED MECHANICAL AND ELECTRICAL SPECIFICATION SHEETS	CJ	SA	BA	RB	RB
	0	07-14-23	ISSUED FOR CONSTRUCTION	S	SA	BA	RB	RB
	No.	DATE	DESCRIPTION	DWN.	CHK,D	D. ENG	P. ENG	P. MGR
	ISSUES / REVISIONS			ENGINEERING APPROVALS				

CONSULTING ENGINEERS, INC



ISSUED FOR CONSTRUCTION ^{LE}ITY OF FAIRBANKS — PWD — PUMP ENCLOSURE

COVER SHEET AND INDEX

GENERAL DATE CREATED EEIS DWG. #

223004 07-14-2023

EEIS PROJECT #

LAST SAVED BY: CAJACOBS - 14 July 2023 - Plotted: 7/14/2023 4:47 PM - User: Charles Jacobs

G1.0

Building Category / Seismic Use Group	H
Site Class (assumed)	D
Ss	0.996
Si	0.380
Exposure	В
Analysis Procedure	ASCE 7-10
Wind Pressure (145 mph 3 Second Gust, LRFD) (110 mph 3 Second Gust, ASD)	lw = 1.0

STRUCTURAL STEEL

All structural steel construction shall conform to the latest AISC handbook. Structural steel shall conform to the following material specifications:

W Sections	A992
Rectangular HSS	A500 GrB 46 ksi
Round HSS	A500 GrB 42 ksi
Channels	A36
Angles, Plate, and Misc.	A36
Pipe	A53
Bolts	A325N

Shop paint all steel surfaces with fabricator's standard rust inhibiting primer.

WELDING

All welding shall conform to the requirements of the current AWS D1.1. Prepare welding procedure specifications and verify welder qualifications in accordance with AWS D1.1. WPS shall be specific to the welding to be performed.

Filler metal shall be E70XX or the equivalent. Welding consumables shall be of low-hydrogen type, and as to assure that notch toughness of the weld metal and heat-affected zone exceeds that of the base metal. Welding procedures shall include maintaining a minimum pre-heat and inter-pass temperature of 225 degrees F and all welding on primary structural frame material that is not +50 degree F minimum at the time of welding.

All welds shall be 3/16" fillet unless noted otherwise. All bevel welds shall be 1/16" less than the thickness of the material to be welded unless noted otherwise. Seal weld all metal/metal contacts in addition to weld symbols shown on the plan.

BOLTS, ANCHORS, & THREADED STEEL RODS

Structural steel bolts shall conform to the following specifications:

Threaded Steel Rod	ASTM A36 or A307 GALV.
Anchor Bolts	ASTM A35 or A307
Anchor Rod	ASTM F1554 Gr 36 or Gr 55 Rods
Structural Bolts	A325N Heavy Hex Head
Nuts	A563
Washers	F436

Design of bolts is based on simple shear in non—slip critical connections; therefore, make bolts snug tight.

CONCRETE OR MASONRY ADHESIVE

All-thread rod or reinforcing bars shall be secured to concrete or masonry with Hilt HIT HY-200-AV3 adhesive manufactured by Hilti Inc., 5400 South 122 East Avenue, Tulsa, OK, 74146, ICC Report ESR-3187. Thoroughly clean hole and install per manufacturer's instructions and quidelines.

CONTRACTOR NOTE

Drawings indicate general and typical details of construction. Where conditions are not specifically indicated but are of similar character to details shown, similar details of construction shall be used, subject to review and approval of the Engineer. If any errors or omissions appear in the drawings, specifications, or other documents, the contractor shall notify the Owner or Engineer in writing of such omission or error before proceeding with the work or accept full responsibility for costs to rectify the error.

HIDDEN CONDITIONS

It shall be the builder's responsibility to adjust the design as necessary to accommodate actual field conditions. The Engineer of record did not do any destructive or invasive investigation of the existing structure. When the builder cuts into the existing structure, they may have to make certain judgments about how to modify the design to fit the existing conditions. Notify Engineer if discrepancies are found between the construction documents and existing conditions.

CONTRACTOR'S MEANS AND METHODS

The structural construction documents represent the finished structure. While the drawings may point out some temporary bracing requirements, they do not indicate all bracing required, and they do not indicate the sequence of construction. The Contractor shall be responsible for and provide all measures necessary to protect the structure during construction. Such measures shall include but not be limited to bracing and shoring for loads due to construction equipment. The Contractor shall be responsible for the design and implementation of all scoffolding, bracing, and shoring. The structural engineer shall not be responsible for the contractor's means, methods, techniques, procedures, and sequences of construction. The structural engineer's observation visits will not include inspection of these items.

SEALANT

Sealant shall be Sitka DuoFlex NS with 50/50 Primer as manufactured by Sika (www.usa.sika.com) (800) 933-7452.

Alaska Product Distributers:

Beacon Building Products
Polar Supply Company Inc.
Alaska Sand & Gravel

. (907) 563-5000 (907) 348-6300

(907) 931-7327

PAINT ON STRUCTURAL STEEL

- Finish Coat: 3 mil minimum thickness multi-purpose epoxy coating, Americaat 235 or approved equal.
- Surface color white
- Touch up after fabrication and installation using same procedure and paint profile.

GENERAL

These plans do not purport to show every aspect of the work required for completion. It shall be the builders' responsibility to:

- Verify dimensions and field conditions. Notify the Owner or Engineer of discrepancies and obtain approval for proposed field changes prior to construction or modification.
- prior to construction or modification.Contact Utilities for field locates. Buried or covered utilities may
- exist which are not completely shown on the plans.

 Dispose of soil waste and demolished materials.
- Remove snow during construction.
- Obtain building permits.
- Perform all construction with materials, methods, and workmanship accepted as good practice in the construction industry.
- Provide adequate shoring, bracing, and formwork as required for the protection of life and property during construction.
- Follow manufacturers' recommendations.
- Control water runoff and drainage.
- Make all precaution to insure jobsite safety.
- Notify the local building official at construction stages requiring inspection.

GENERAL LAYOUT REQUIREMENTS

See layout drawings for locations of openings in walls, and for all wall finish details. Drawings indicate general and typical details of construction. Where conditions are not specifically indicated but are of similar character to details shown, similar details of construction shall be used, subject to review and approval of the Engineer. If any errors or omissions appear in the drawings, specifications, or other documents, the contractor shall notify the Owner or Engineer in writing of such omission or error before proceeding with the work.

SUBMITTALS

Shop Drawings

- İnsulated Wall Panels
- Roof and Wall Flashing

Special Inspection

Special inspections shall be performed by qualified personnel. Submit inspector's resumes to the Owner.

Special inspectors shall observe the work assigned for conformance with approved design drawings and specifications. Inspection reports shall be furnished to the Owner and the Engineer of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction, and to the attention of the Owner.

The special inspectors shall submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the applicable codes.

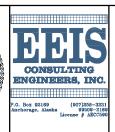
Provide the following special inspections per Chapter 17 of the current International Building Code (IBC).

REQUIRED SPECIAL INSPECTION					
SYSTEM OR MATERIAL	IBC CODE REFERENCE	ICC CODE OR STANDARD REFERENCE	STANDARD FREQUENCY REM		
			CONTINUOUS	PERIODIC	
POST INSTALLED ANCHORS TO CONCRETE	1703.4.2 1704.15(3)	3187 HILIT HY-200-AV3 CONCRETE ADHESIVE ANCHORING		X	SPECIAL INSPECTION APPLY TO POST INSTALLED ANCHORS: PRODUCT NAME, ANCHOR MODEL AND DIMENSION, HOLE DIMENSIONS, COMPLIANCE TO DRILL BIT REQUIREMENTS, ANCHOR EMBEDMENT, TIGHTENING TORQUE, CLEANLINESS OF HOLE.

STRUCTURAL GENERAL NOTES S(1) G(A) P(H) D(EEIS) SCOLO 1.0

$\underline{}$	Scale								
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1	07-14-23	ADDED PAINT SPECIFICATION	ည	SA	BA	RB	RB		
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No	DATE	DESCRIPTION	DWN.	CHK'D	D. ENG	P. ENG	P. MGR		
	ISSUES / REVISIONS			ENGINEERING APPROVALS					







	ISSUED FOR	CONSTRUCTION				
	TITLE					
	GENERAL NOTES					
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223004	07-14-2023	S1.0 1				