

LITTLE ROCK DUMP SECURE STORAGE

Contract No. DH26-015





ADDENDUM to the Contract for the

LITTLE ROCK DUMP SECURE STORAGE Contract No. DH26-015

ADDENDUM NO.: ONE

**CURRENT DEADLINE FOR BIDS:
February 24, 2026**

PREVIOUS ADDENDA: NONE

**PREVIOUS DEADLINE FOR BIDS:
February 19, 2026**

ISSUED BY: City and Borough of Juneau
ENGINEERING DEPARTMENT
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: February 17, 2026

The following items of the contract are modified as herein indicated. This addendum has been issued and is posted online. Please refer to the: <https://juneau.org/finance/purchasing/bids-rfps>

CLARIFICATIONS.

- QUESTION *"One line diagram indicates ground rods at load center, but this is not first point of disconnect for system. NEC language indicates that these should be installed at new service, and 100A fused service disconnect at AEL&P pole 14683. Please advise."*
- RESPONSE Agreed, the ground rods should be shown at the main disconnect by the AELP pole, not the load center.
- QUESTION *"Sheet E6 Detail 3 indicates service disconnect as 30A. Please confirm this is typographical error, and notes on sheet E3 are correct for sizing?"*
- RESPONSE Yes, this is a typo. Sheet E3 has the correct size at 100 amps.
- QUESTION *"Sheet E3 one line indicates 4/0 AWG conductors from service disconnect to load center branch main. Standard circuit breaker lugs that would act as branch main do not accept 4/0 wire size. Ex: Square D QO2100 terminal lugs are rated up to 2/0. 4/0 would not fit in this breaker without reducing adaptors of some kind. Please advise."*
- RESPONSE This wire size should be 1/0, not 4/0. The main fused disconnect can accept up to 1/0 wire.
- QUESTION *"Please advise future design intent for spare conduits. Are these potentially to be used for low voltage CCTV or similar? Will dictate trenching paths to maintain separation, if so."*
- RESPONSE Yes, if used the spares would likely be for future camera CAT 6A or fiber cable.

QUESTION *"Please confirm #12 AWG wire size to light poles, specifically to LP-3. This appears to be roughly 200 feet as drawn sheet E2. Standard industry practice would have this minimum of #10 to account for voltage drop."*

RESPONSE #12 wire meets voltage drop expectations for the lengths involved, however no. 10 wire is prudent. Please bid assuming #12 wire to all light poles.

QUESTION *"Sheet E3 one line appears to indicate spare 1" conduits to be terminated outside of respective junction boxes. These locations are not shown anywhere else. Please advise if desire is to run spares to any location outside of junction boxes."*

RESPONSE Yes, extend spares 5 feet beyond j-box and provide swing ties to final locations in the as-builts. From JB-1 run to NE (towards the vehicle gate, parallel to the fence line), from JB-2 run spare conduit to the southeast (parallel to the fence line), from JB-3 run to the southeast (parallel to the fence line).

QUESTION *"Similar to above, Note 12 Sheet E1 indicates asbuilts swing ties with rebar markers, but locations for these are not indicated."*

RESPONSE See response to No. 6 above.

QUESTION *"Surety has asked us to reach out in regards to the bid specs on warranty on this project, see below. Can you please provide some clarity on the warranty along with Contractor's interpretation:*

10-year warranty listed on the bid request form is appears to be a manufacturers warranty; Section 1.06B (Page 194)."

RESPONSE Correct, a manufacturer's warranty on the spd units of ten years (material warranty, not labor warranty).

QUESTION *"However, there looks to be a bit of a discrepancy with the warranty period. Section 1.07A (Page 202) points to a three-year warranty for all materials and defective workmanship. Meanwhile, Section 13.6 (Page 73) refers to a one year "correction period" for defective work."*

RESPONSE Page 202 reference to a 3-year warranty should be omitted, see Project Manual Item No. 4 below. The material warranty on page 202 is covered by section 1.07b(3) and the standard 1-year labor warranty is fine.

QUESTION *"The bid request is fine with a one-year warranty and pass through of the manufacturer's (please provide a copy of that warranty). If it is a three year, please confirm Contractor's comfort level if three years and there is an additional charge for the 3rd year warranty."*

RESPONSE One-year labor warranty plus the manufacturer's extended warranty passed-through to owner is what the Owner wants.

QUESTION *"I have reviewed the referenced specification sections related to warranty and am unable to reply to the surety's request for information. Please provide clarification of the application for the 1- and 3-year warranties. Are the specified 3-year material warranty and defective work applicable to the material manufacturer or the contractor. What is the 3-year warranty applicable to, and what is the 1-year correction period for defective work applicable to?"*

RESPONSE Owner wants the standard 1-year labor warranty on all electrical, plus whatever manufacturer warranties that are noted in each spec section passed-through.

QUESTION *"The description of work calls to apply recycled asphalt surface. RAP is not shown in the plans or on the bid schedule. Please confirm?"*

RESPONSE There is no RAP used in the project. See Project Manual Item No. 1 for modified description of work.

PROJECT MANUAL.

Item No. 1: SECTION 00030 – NOTICE INVITING BIDS, DESCRIPTION OF WORK
Replace Description of Work ***with the following*** revised Description of Work:

DESCRIPTION OF WORK. This Project consists of clearing and grading the existing site. The work additionally includes the installation of security fencing and lighting.

Item No. 2: SECTION 00030 – NOTICE INVITING BIDS, DEADLINE FOR BIDDER QUESTIONS
Change Deadline for Bidder Questions ***from*** February 12, 2026, ***to*** February 19, 2026.

Item No. 3: SECTION 00030 – NOTICE INVITING BIDS, DEADLINE FOR BIDS
Change Deadline for Bids ***from*** February 19, 2026, ***to*** February 24, 2026.
The time remains the same.

Item No. 4: SPECIAL PROVISIONS, SECTION 26 5600 – EXTERIOR LIGHTING, PART 1 – GENERAL, ARTICLE 1.07 – WARRANTY
Replace paragraph A ***with the following*** revised paragraph A:

A. General Warranty: Special warranty specified in this Article shall not deprive OWNER of other rights OWNER may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by CONTRACTOR under requirements of the Contract Documents.

DRAWINGS.

- Item No. 1: SHEET E2 – SITE PLAN
Replace with the attached revised Sheet E2 – Site Plan.
- Item No. 2: SHEET E3 – SINGLE LINE & PANEL SCHEDULE
Replace with the attached revised Sheet E3 – Single Line & Panel Schedule.
- Item No. 3: SHEET E4 – LUMINIARE SCHEDULE & LIGHTING SCHEMATIC
Replace with the attached revised Sheet E4 – Luminaire Schedule & Lighting Schematic.
- Item No. 4: SHEET E6 – RACK ELEVATIONS & TRENCH DETAILS
Replace with the attached revised Sheet E6 – Rack Elevations & Trench Details.

Receipt of this addendum must be acknowledged, or your bid may be considered non-responsive. Acknowledge the addendum in the submitted bid.

By: Carl Uchytel
Carl Uchytel,
City & Borough of Juneau, Port Director

Total number of pages contained within this Addendum: 8

1 COORDINATE WITH AEL&P TO PROVIDE A NEW OH SERVICE FROM EXISTING POLE TRANSFORMER AT POLE AEL&P #14645 AND A NEW UTILITY RISER AT EXISTING POLE AEL&P #14683. CONTINUE TO NEW UTILITY RACK PROVIDED BY CONTRACTOR. EXACT DISTANCE FROM UTILITY POLE TO BE COORDINATED WITH OWNER & AEL&P PRIOR TO WORK. ALL UTILITY WORK TO BE PAID FOR BY OTHERS.

② PROVIDE A NEW NEMA 4X FUSED DISCONNECT AND METER SOCKET AT NEW RACK ADJACENT TO EXISTING UTILITY POLE AEL&P #14683. COORDINATE WORK WITH AEL&P.

③ ROUTE FEEDER CONDUIT FROM UTILITY RACK TO
NEW PANEL AT RACK ACROSS PROJECT SITE.
ADJUST ROUTE IF REQUIRED FROM WHAT IS
SHOWN.

4 PROVIDE A NEW PANEL IN OVERALL STAINLESS STEEL ENCLOSURE ON NEW HDG RACK AT ENTRANCE TO FENCED YARD. SEE DETAIL 2, SHEET E6 FOR ELEVATION.

5 NEW AREA LIGHT POLE AND JUNCTION BOX, SEE
DETAIL 1, SHEET E5 FOR LIGHTING DETAILS.

6 NEW RACK AND AREA LIGHT POLE AND JUNCTION BOX LOCATIONS TO BE CONFIRMED WITH OWNER PRIOR TO WORK.

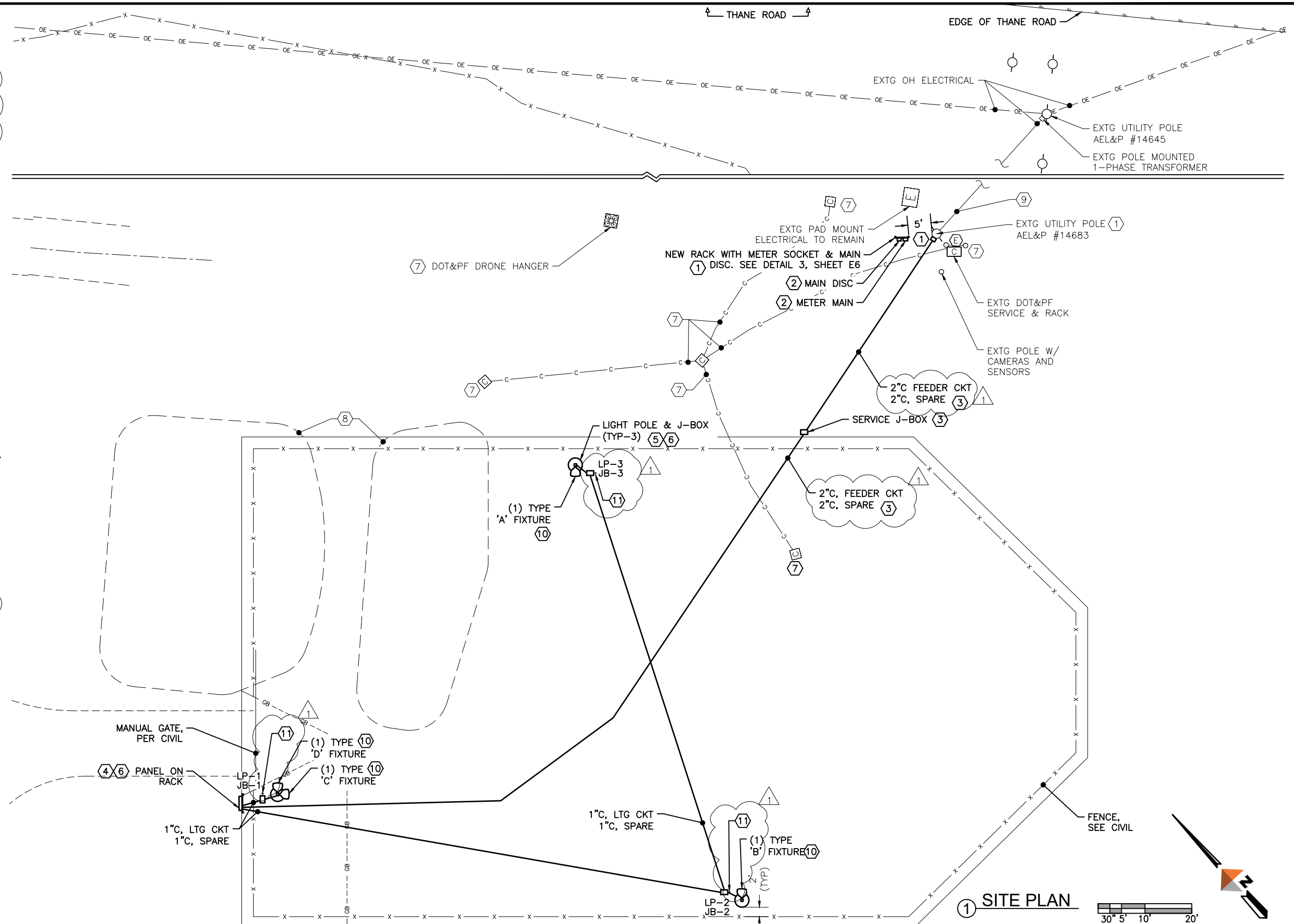
7 EXISTING DOT&PF SEISMIC MONITORING SYSTEM. CONSISTS PRIMARILY OF SURFACE MOUNTED PVC CONDUIT AND CONDUCTORS AND SURFACE MOUNT SENSOR BOXES. TO BE RELOCATED BY OTHERS. DO NOT TOUCH THIS SYSTEM.

8 APPROXIMATE LOCATION OF EXISTING SLUDGE CELL.
DO NOT ROUTE NEW CONDUITS THROUGH THIS
ZONE. DO NOT INSTALL ELECTRICAL WITHIN THIS
ZONE.

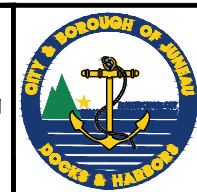
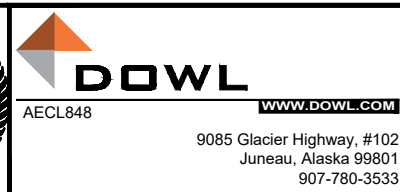
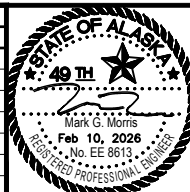
9 EXISTING 1-PHASE OH SERVICE TO REMAIN, NEW 120/240V, 1-PHASE OH SERVICE FROM EXISTING TRANSFORMER ON POLE AEL&P #14645 WORK BY UTILITY.

10 PROVIDE THE SPECIFIC FIXTURE TYPES NOTED AT EACH LOCATION FOR PROPER LIGHT DISTRIBUTION. SEE SHEET E4 FOR THE LUMINAIRE SCHEDULE.

11 STUB SPARE CONDUIT OUT FIVE FEET AND CAP.
SEE NOTE 12, SHEET E1.



① SITE PLAN

[illegible]

SITE PLAN

PROJECT	2670.80611.02
DATE	2/10/26

SHEET
E2

ADDITIVE ALTERNATE NO. 1



x:\129 dowl engineering\43 cbj little rock dump\working drawings\ELECTRIC VEHICLE CHARGER SINGLE LINE & PANEL SCHEDULE.dwg PLOT DATE 2026-02-10 08:40 SAVED DATE 2026-02-09 18:29 USER: jodi

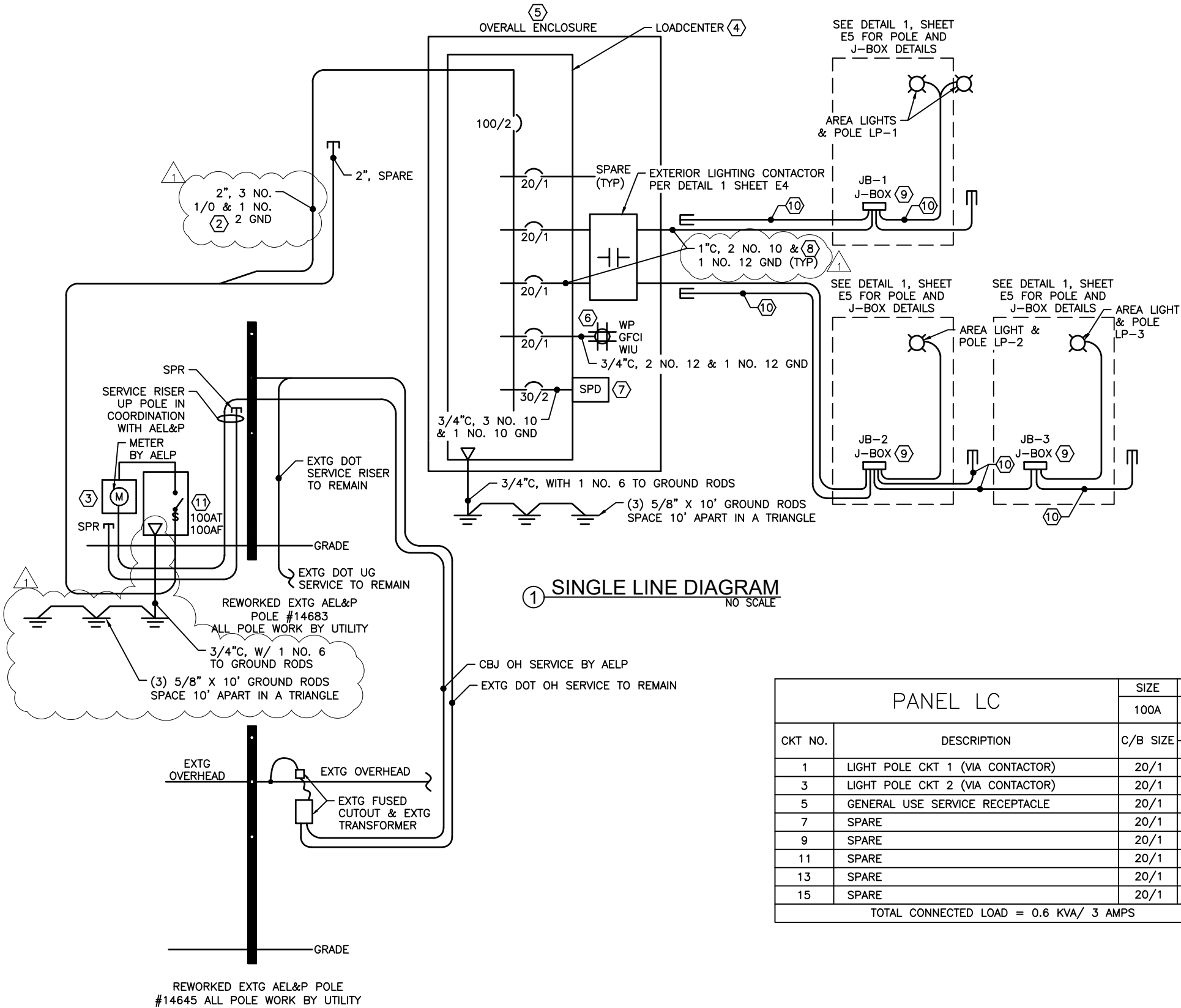
SHEET NOTE: ALL ELECTRICAL WORK ON THIS PROJECT IS PART OF ADDITIVE ALTERNATIVE NO. 1. NO ELECTRICAL WORK IS PART OF THE BASE BID WORK.

SHEET NOTE:

SEE SHEET E1 FOR LEGEND AND GENERAL NOTES APPLICABLE

KEYNOTES:

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 1 AEL&P TO PROVIDE NEW POLE TRANSFORMER, FUSED CUTOUT, AND RISER FOR PROJECT SERVICE.
- 2 SERVICE TO RACK MOUNTED PANEL. COORDINATE CONDUIT WORK WITH UTILITY.
- 3 RINGED STYLE SINGLE METER SOCKET WITH UNDERGROUND CONNECTION. 200A RATED, 4-JAW, 3-WIRE, TYPE 304 STAINLESS STEEL. EATON U204MS21SS OR EQUAL. MOUNT TO RACK STRUT. SEE DETAIL 3, SHEET E6.
- 4 LOADCENTER IN NEMA 1 ENCLOSURE WITH MAIN BREAKER. 120/240V, 100A, 1PH, 3-WIRE, 16 CIRCUIT PANELBOARD. SQUARE D QO116M100P WITH GROUND BAR. OR EQUAL. MOUNT TO BACK WALL OF THE OVERALL ENCLOSURE. CIRCUIT BREAKERS PER PANEL SCHEDULE, THIS SHEET.
- 5 NEMA 4X 316 SS OVERALL ENCLOSURE WITH HINGED & LOCKABLE DOOR. 36"H X 36"W X 12"D, HAMMOND HW363612S16HK OR EQUAL. PROVIDE WITH INNER BACK WALL MOUNTING PANEL 18G3333 OR EQUAL.
- 6 PROVIDE 20A, 120V, HD RECEPTACLE IN SM ENCLOSURE MOUNTED INSIDE OVERALL ENCLOSURE.
- 7 PROVIDE SURGE PROTECTION DEVICE (SPD) MOUNTED TO SIDE OF PANEL AND NIPPLE FEED WITH A DEDICATED 30/2 BREAKER. TYPE 1 SPD, 50KA RATED, 6 MODES (L-L, L-N, L-G, N-G). SQUARE D HEPD50 OR EQUAL. KEEP CONDUCTORS TO DEVICE AS SHORT AND STRAIGHT AS POSSIBLE. MOUNT SPD DIRECTLY ACROSS FROM ITS FEEDER BREAKER.
- 8 PROVIDE UNDERGROUND CONDUITS IN COMMON TRENCH WHERE PRACTICAL. SEE DETAIL 1, SHEET E6 FOR TRENCH DETAIL.
- 9 J-BOX ADJACENT TO LIGHT POLE. SEE DETAIL 1, SHEET E5 FOR J-BOX DETAIL.
- 10 1"C, SPARE, WITH PULLSTRING. STUB AND CAP IN ALL J-BOXES AND LIGHT POLES.
- 11 FUSED DISCONNECT, 100A, 600V, 3-POLE, NEMA 4X, WITH CLASS RK FUSES SIZED AS SHOWN. SQUARE D VH363SSGL OR EQUAL. SEE DETAIL 3, SHEET E6.



PANEL LC			SIZE	VOLTS, PHASE			MOUNTING	MAIN	LOCATION	
			100A	120/240V, 1ϕ, 3W			SURFACE	100/2	EXTERIOR ENCLOSURE ON RACK	
CKT NO.	DESCRIPTION	C/B SIZE	KVA				C/B SIZE	DESCRIPTION	CKT NO.	
			CKT	Aϕ	Bϕ	CKT				
1	LIGHT POLE CKT 1 (VIA CONTACTOR)	20/1	0.2	0.2		0.0	100/2	BRANCH MOUNTED MAIN	2	
3	LIGHT POLE CKT 2 (VIA CONTACTOR)	20/1	0.2		0.2	0.0	—	—	4	
5	GENERAL USE SERVICE RECEPTACLE	20/1	0.2	0.2		0.0	20/1	SPARE	6	
7	SPARE	20/1	0.0		0.0	0.0	20/1	SPARE	8	
9	SPARE	20/1	0.0	0.0		0.0	20/1	SPARE	10	
11	SPARE	20/1	0.0		0.0	0.0	20/1	SPARE	12	
13	SPARE	20/1	0.0	0.0		0.0	30/2	SURGE PROTECTIVE DEVICE	14	
15	SPARE	20/1	0.0		0.0	0.0	—	—	16	
TOTAL CONNECTED LOAD = 0.6 KVA/ 3 AMPS				0.4	0.2	NOTE: ALL BREAKERS SHALL BE MINIMUM 10KAIC RATED				

ADDITIVE ALTERNATE NO. 1



REVISIONS			
REV	DATE	DESCRIPTION	BY
1	2/28	ADDENDUM 1	



LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015
SINGLE LINE & PANEL SCHEDULE

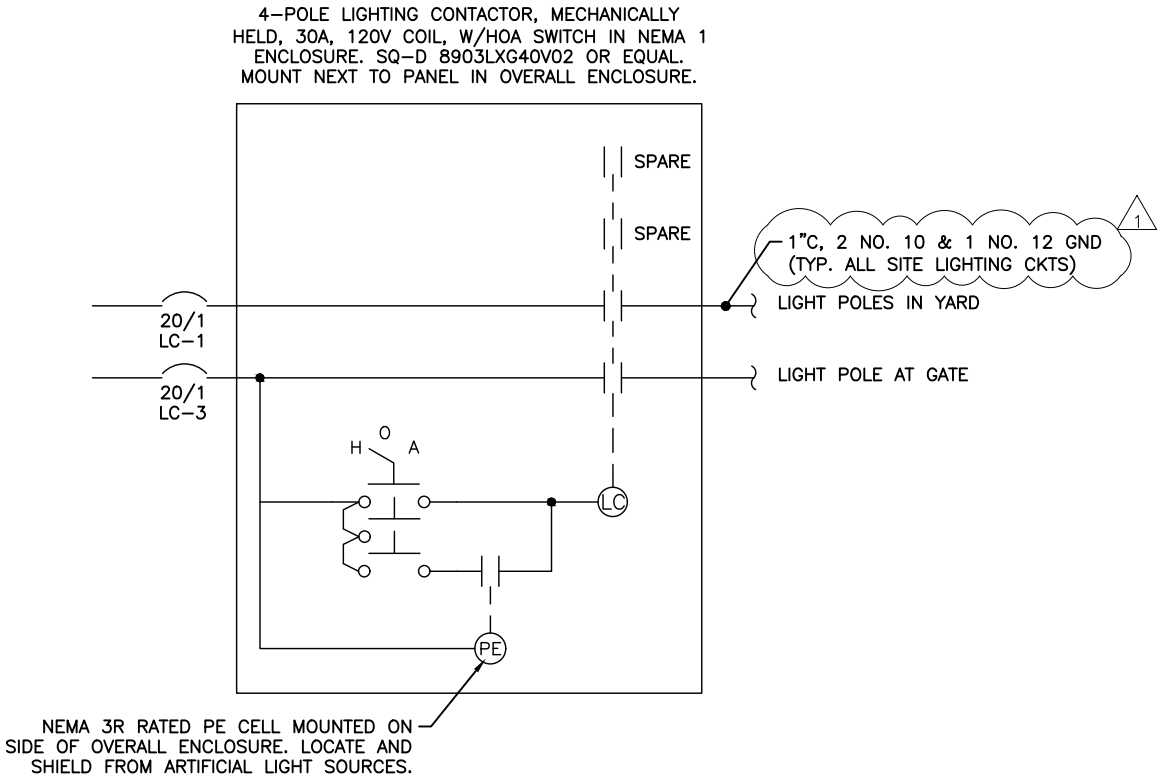
PROJECT 2670.80611.02 DATE 2/9/26
SHEET E3

SHEET NOTE: ALL ELECTRICAL WORK ON THIS PROJECT IS PART OF ADDITIVE ALTERNATIVE NO. 1. NO ELECTRICAL WORK IS PART OF THE BASE BID WORK.

LUMINAIRE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	LED CCT & LUMENS	LOCATED ON LIGHT POLE	REMARKS
A	POLE MOUNT, CUTOFF LED LUMINAIRE. NO LIGHT ABOVE 65° ABOVE NADIR, TYPE III MEDIUM DISTRIBUTION	LITHONIA D-SERIES SIZE 0, DSX0 LED P7 40K 70CRI T3M MVOLT EGSR DBLXD HS	4000K (20,000 LUMENS)	LP-3	POLE MOUNT TO NEW SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. NO LIGHT ABOVE 65° ABOVE NADIR. PROVIDE ALL FIXTURES WITH FIELD INSTALLABLE HOUSE SIDE SHIELD. POSITION OF SHIELD TO BE CONFIRMED WITH OWNER AFTER INSTALLATION AND TESTING OF LIGHTING SYSTEM.
B	POLE MOUNT, CUTOFF LED LUMINAIRE. NO LIGHT ABOVE 65° ABOVE NADIR, TYPE IV MEDIUM DISTRIBUTION	LITHONIA D-SERIES SIZE 0, DSX0 LED P7 40K 70CRI T4M MVOLT EGSR DBLXD HS	4000K (20,000 LUMENS)	LP-2	POLE MOUNT TO NEW SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. NO LIGHT ABOVE 65° ABOVE NADIR. PROVIDE ALL FIXTURES WITH FIELD INSTALLABLE HOUSE SIDE SHIELD. POSITION OF SHIELD TO BE CONFIRMED WITH OWNER AFTER INSTALLATION AND TESTING OF LIGHTING SYSTEM.
C	POLE MOUNT, CUTOFF LED LUMINAIRE. NO LIGHT ABOVE 65° ABOVE NADIR, FORWARD THROW DISTRIBUTION	LITHONIA D-SERIES SIZE 0, DSX0 LED P2 40K 70CRI TFTM MVOLT EGSR DBLXD HS	4000K (6,000 LUMENS)	LP-1 FACING EAST	POLE MOUNT TO NEW SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. NO LIGHT ABOVE 65° ABOVE NADIR. PROVIDE ALL FIXTURES WITH FIELD INSTALLABLE HOUSE SIDE SHIELD. POSITION OF SHIELD TO BE CONFIRMED WITH OWNER AFTER INSTALLATION AND TESTING OF LIGHTING SYSTEM.
D	POLE MOUNT, CUTOFF LED LUMINAIRE. NO LIGHT ABOVE 65° ABOVE NADIR, TYPE IV MEDIUM DISTRIBUTION	LITHONIA D-SERIES SIZE 0, DSX0 LED P3 40K 70CRI T4M MVOLT EGSR DBLXD HS	4000K (8,500 LUMENS)	LP-1 FACING NORTH	POLE MOUNT TO NEW SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. NO LIGHT ABOVE 65° ABOVE NADIR. PROVIDE ALL FIXTURES WITH FIELD INSTALLABLE HOUSE SIDE SHIELD. POSITION OF SHIELD TO BE CONFIRMED WITH OWNER AFTER INSTALLATION AND TESTING OF LIGHTING SYSTEM.

NOTES:

- THE PART NUMBERS IN THE LUMINAIRE SCHEDULE MAY NOT BE COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL PARTS AND ACCESSORIES NECESSARY TO COMPLY WITH THE FEATURES SHOWN IN THE LUMINAIRE SCHEDULE (INCLUDING THE MOUNTING) AND AS SHOWN ON THE OTHER PLAN SHEETS, AND IN THE SPECIFICATIONS.
- PROVIDE THE LUMINAIRES SHOWN OR APPROVED EQUAL. A SUBSTITUTE LUMINAIRE SHALL HAVE EQUIVALENT PHOTOMETRIC PERFORMANCE AS WELL AS THE SAME QUALITY, FEATURES, FUNCTIONALITY, ATTRIBUTES, ETC. AS THE SPECIFIED LUMINAIRE INCLUDING THE REQUIREMENTS SHOWN ON THE PLANS AND INCLUDED IN THE SPECIFICATIONS. IF IT DOES NOT, IT WILL BE REJECTED AS AN EQUAL TO THE SPECIFIED LUMINAIRE. PHOTOMETRIC FILES SHALL BE PROVIDED (*.IES) ALONG WITH CATALOG CUT SHEETS DURING SUBMITTALS AND THE LIGHTING DESIGN WILL BE CHECKED BY THE DESIGNER USING THE SUBSTITUTE LUMINAIRE. IF AN EQUIVALENT LIGHT LEVEL AND UNIFORMITY AS WELL AS GLARE CONTROL IS NOT ACHIEVED, THE SUBSTITUTE LUMINAIRE WILL BE REJECTED AS AN EQUAL TO THE SPECIFIED LUMINAIRE.
- SEE SHEET E5 FOR POLE DETAIL & MOUNTING INFO SHEET E2 FOR POLE LOCATIONS AND FIXTURE CALL OUTS BY TYPE.
- PROVIDE POLE LIGHT FIXTURES PROTECTED UPSTREAM FUSING AND SPD UNITS INSTALLED IN POLE. SEE WIRING DIAGRAM ON SHEET E5.
- PROVIDE ONE SPARE OF EACH FIXTURE TYPE.



1 EXTERIOR LIGHTING SCHEMATIC
NO SCALE

ADDITIVE ALTERNATE NO. 1



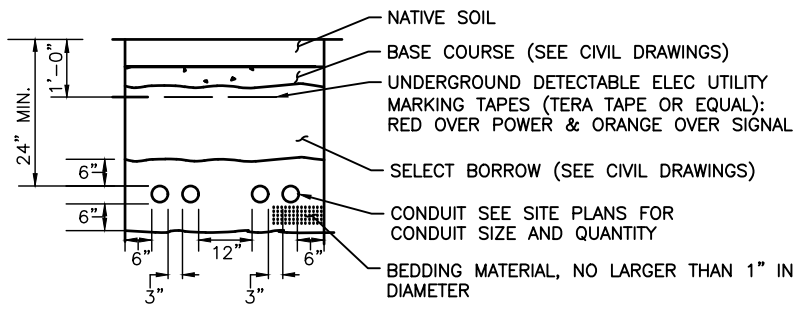
REVISIONS			
REV	DATE	DESCRIPTION	BY
1	2/28	ADDENDUM 1	



LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015
LUMINIARE SCHEDULE & LIGHTING SCHEMATIC

PROJECT 2670.80611.02
DATE 2/9/26
SHEET
E4

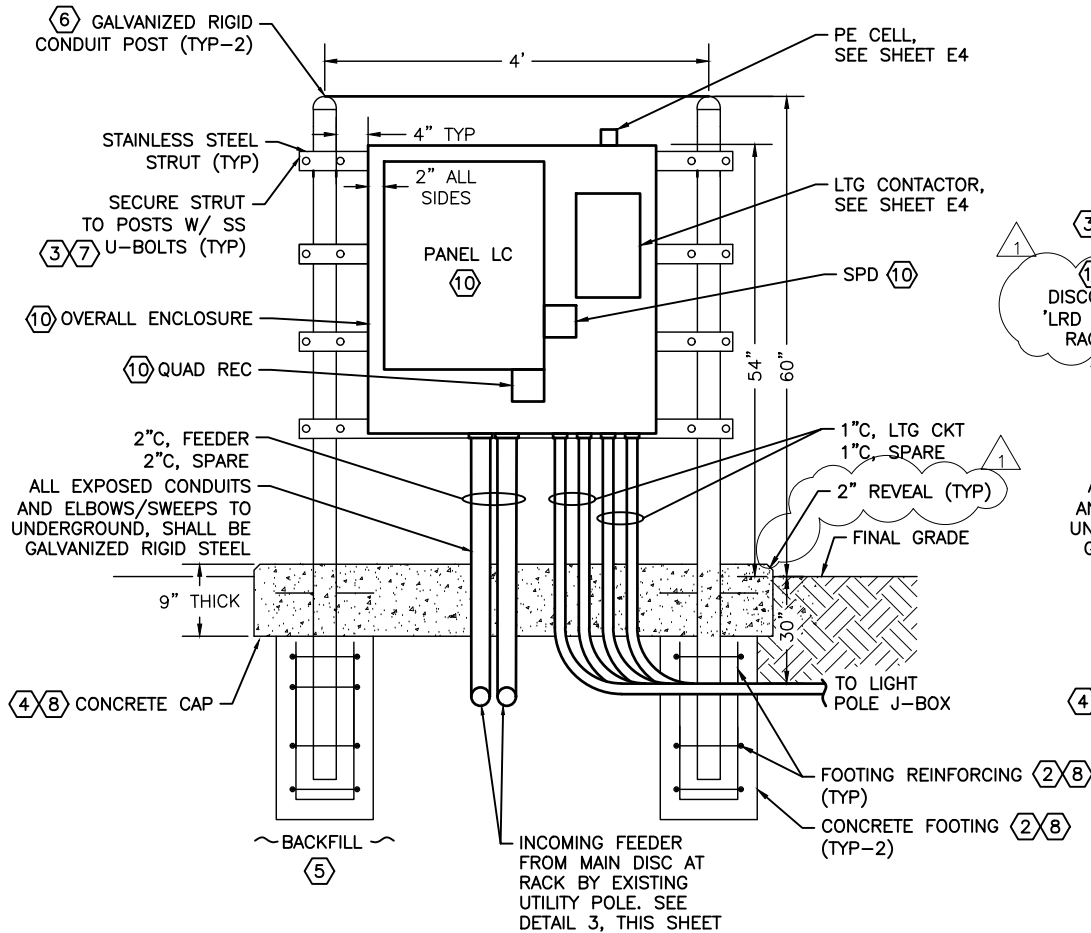
SHEET NOTE: ALL ELECTRICAL WORK ON THIS PROJECT IS PART OF ADDITIVE ALTERNATIVE NO. 1. NO ELECTRICAL WORK IS PART OF THE BASE BID WORK.



1 TRENCH DETAIL
NO SCALE

SHEET NOTES (APPLICABLE TO DETAIL 1):

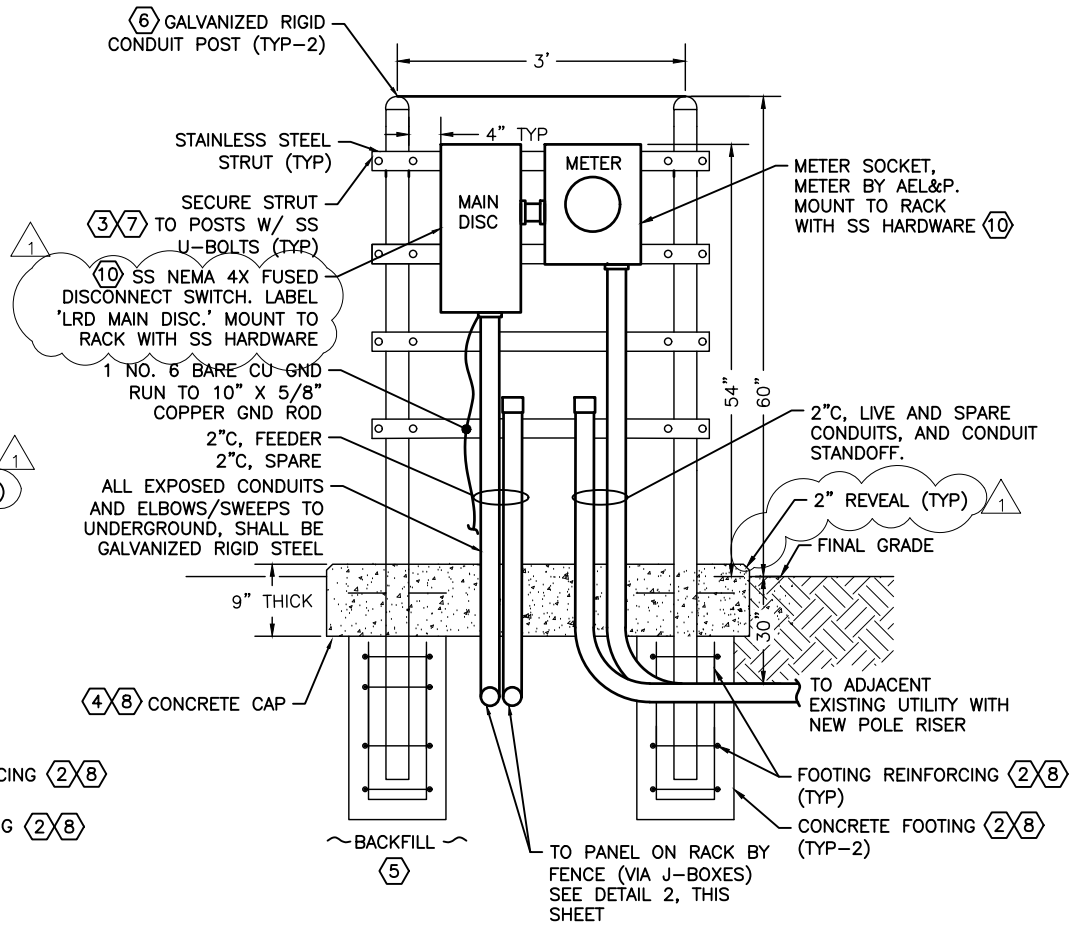
- ALL DIMENSIONS ARE MINIMUM.
- MODIFY CONDUIT BURIAL DEPTH WHERE SHOWN ON DRAWINGS AND AS REQUIRED TO AVOID ALL OBSTACLES. ROUTE BELOW OBSTACLES.
- THE LOCATION OF ALL EXISTING UNDERGROUND PIPING, CONDUIT, ETC MAY NOT BE WHERE SHOWN ON THE PLANS OR MAY NOT BE SHOWN AT ALL. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO DIGGING. DIG WITH CAUTION. AVOID WATER, SEWER, DRAINAGE PIPES AND OTHER CONFLICTS.
- MAINTAIN 12 INCHES MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND OTHER, PIPES, ETC.
- CONDUITS SHALL BE BURIED AT A MINIMUM OF 24". BURY CONDUITS DEEPER WHERE REQUIRED TO AVOID OTHER PIPES AND STRUCTURES.
- PERFORM ALL TRENCH EXCAVATION, BACKFILL, AND COMPACTION PER CIVIL DRAWINGS AND SPECIFICATIONS.



2 PANEL ELEVATION
NO SCALE

SHEET NOTES (APPLICABLE TO DETAILS 2 & 3):

- PROVIDE APPROVAL DRAWINGS FOR CHANNEL STRUT RACK DURING THE SUBMITTAL PROCESS. DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION: DIMENSIONS, WEIGHTS, DETAILS, REINFORCING, SEGMENTS LENGTHS AND SIZES, ENCLOSURE LAYOUTS TO SCALE, AND CONDUIT LOCATIONS.
- 12" DIAMETER X 4' DEEP CONCRETE FOOTINGS. PROVIDE WITH REINFORCING AS FOLLOWS: (4) #4 VERTICAL AND #3 CIRC. TIES AT 12" O.C. (2-TIES NEAR TOP).
- ALL CHANNEL STRUT TO BE STAINLESS STEEL. ALL POSTS AND CONDUIT TO BE GALVANIZED RIGID STEEL. TREAT ALL FIELD CUT STRUT AND CONDUIT SEGMENTS WITH GREY GALVANIC TOUCH UP PAINT TO INHIBIT CORROSION.
- PROVIDE CONCRETE CAP AROUND POST PENETRATION INTO GRADE THAT EXTENDS 2" ABOVE GRADE, AND MINIMUM OF 2" PAST FOOTING BELOW ALL SIDES. PROVIDE CAP WITH EMBEDDED GALVANIZED WIRE MESH.
- PROVIDE NATIVE SOIL OR APPROVED IMPORTED BACKFILL. COMPACT A MINIMUM OF 12" ALL SIDES OF FOOTINGS TO 95% PER MODIFIED PROCTOR DENSITY METHOD.
- 4" DIAMETER X 8' TALL HOT DIPPED GRS CONDUIT POST FILLED WITH CONCRETE. BURY 3' INTO GROUND (TYP-2).
- 1-1/2" STAINLESS STEEL CHANNEL STRUT. MOUNT STRUT TO POSTS AND EQUIPMENT TO STRUT.
- MAINTAIN ALL METAL REINFORCING A MINIMUM OF 3" DISTANCE FROM EDGE OF CONCRETE FORMS.
- ALL MOUNTING HARDWARE TO BE STAINLESS STEEL.
- SEE DETAIL 1, SHEET E3 FOR SINGLE LINE DIAGRAM AND COMPLETE DESCRIPTIONS.

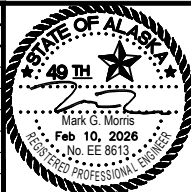


3 UTILITY MAIN DISCONNECT ELEVATION
NO SCALE

ADDITIVE ALTERNATE NO. 1



REVISIONS			
REV	DATE	DESCRIPTION	BY
1	2/28	ADDENDUM 1	



LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015
RACK ELEVATIONS & TRENCH DETAILS

PROJECT 2670.80611.02
DATE 2/9/26
SHEET
E6



ADDENDUM to the Contract for the

**LITTLE ROCK DUMP
SECURE STORAGE
Contract No. DH26-015**

ADDENDUM NO.: TWO

**CURRENT DEADLINE FOR BIDS:
February 24, 2026**

PREVIOUS ADDENDA: ONE

ISSUED BY: City and Borough of Juneau
ENGINEERING DEPARTMENT
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: February 23, 2026

The following items of the contract are modified as herein indicated. This addendum has been issued and is posted online. Please refer to the: <https://juneau.org/finance/purchasing/bids-rfps>

- ❖ Bid Opening Teleconference Line has been revised. Bidders interested in calling in to the bid opening should use the following: 907-713-2140, participant code 370829.

PROJECT MANUAL.

Item No. 1: SECTION 00030 – NOTICE INVITING BIDS, DEADLINE FOR BIDS
Change teleconference information to the following:

Bidders may attend this bid opening by calling 907-713- 2140, with participant code 370829, unless otherwise specified.

Receipt of this addendum must be acknowledged, or your bid may be considered non-responsive. Acknowledge the addendum in the submitted bid.

By: Cristian Crabtree
on behalf of
Carl Uchytel,
City & Borough of Juneau, Port Director

Total number of pages contained within this Addendum: 1

SECTION 00005 - TABLE OF CONTENTS

DIVISION 0 - BIDDING AND CONTRACT REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

BIDDING and CONTRACT REQUIREMENTS No. of Pages

00005	Table of Contents	2
00030	Notice Inviting Bids	3
00100	Instructions to Bidders	9
00300	Bid	2
00310	Bid Schedule	1
00320	Bid Bond	1
00360	Subcontractor Report.....	2

CONTRACT FORMS

00500	Agreement	6
00610	Performance Bond	2
00620	Payment Bond	2

CONDITIONS OF THE CONTRACT

00700	General Conditions	48
00800	Supplementary General Conditions	6
00830	Alaska Labor Standards, Reporting, and Prevailing Wage Rate Determination.....	41
Special Provisions		82

LIST OF DRAWINGS

G-001	COVER SHEET
G-002	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
C-100	TYPICAL SECTIONS
C-101	PAD SECTIONS
C-200	EXISTING CONDITIONS, DEMOLITION PLAN, AND SURVEY CONTROL
C-201	ACCESS ROAD PLAN AND PROFILE
C-202	PAD AND DRIVEWAY PLAN AND PROFILE
C-400	FENCE DETAILS
C-401	GATE DETAILS
C-402	MISCELLANEOUS DETAILS
E1	TITLE, INDEX, LEGEND & GENERAL NOTES

SECTION 00005 - TABLE OF CONTENTS

E2	SITE PLAN
E3	SINGLE LINE & PANEL SCHEDULE
E4	LUMINARE SCHEDULE
E5	AREA LIGHTING DETAIL
E6	PANEL ELEVATION & TRENCH DETAILS

END OF SECTION

SECTION 00030 NOTICE INVITING BIDS

OBTAINING CONTRACT DOCUMENTS. The Contract Documents are entitled:

**LITTLE ROCK DUMP
SECURE STORAGE
Contract No. DH26-015**

The Contract Documents may be downloaded from the CBJ Public Purchase webpage at <https://www.publicpurchase.com/juneau.ak>. Instructions for the Public Purchase registration process can be found here <https://juneau.org/engineering-public-works/bids-rfps>

PRE-BID CONFERENCE. Prospective Bidders are encouraged to attend a pre-Bid conference to discuss the proposed WORK, which will be conducted by the OWNER, **at 10:00 a.m. on February 5, 2026, via teleconference.** The object of the conference is to acquaint Bidders with the project and bid documents. Prospective bidders intending to participate shall email contracts@juneau.gov by 4:30 p.m., February 4, 2026

DESCRIPTION OF WORK. This Project consists of clearing and grading the existing site, along with applying a new recycled asphalt surface. The work additionally includes the installation of security fencing and lighting.

ENGINEER'S ESTIMATE RANGE: Between \$300,000 and \$600,000.

COMPLETION OF WORK. The WORK must be completed by:

<u>Work Description</u>	<u>Completion Date</u>
Substantial Completion	July 1, 2026
Final Completion	July 15, 2026

DEADLINE FOR BIDDER QUESTIONS: February 12, 2026.

DEADLINE FOR BIDS: Electronic bids must be received by the Port Director **prior to 2:00 p.m., Alaska Time on February 19, 2026,** or such later time as may be announced by addendum at any time prior to the deadline. **Bids will be opened** via Teleconference. Bidders may attend this bid opening by calling 907-713-2140, with participant code 258358, unless otherwise specified.

SUBMISSION INSTRUCTIONS: Timely responses are accepted via Electronic Submission at Public Purchase, www.publicpurchase.com, the CBJ's eProcurement Provider. Bidders must register online prior to submitting a bid, it may take up to 24 hours for registration to be complete.

Late responses will not be accepted.

To Respond, Bidders must complete an online registration.

- Registration is a two-step process, registering with Public Purchase, and then registering with CBJ within Public Purchase.
- Get help registering using the Public Purchase Help Menu Tab.
- Register early to avoid missing the deadline, as Registration may take up to 24 hours to complete.

Registered Bidders may submit a Bid Schedule to Public Purchase by downloading the provided PDF solicitation documents, filling out the fields indicated, and uploading the document to Public Purchase.

SITE OF WORK. The site of the WORK is the CBJ Docks & Harbors Little Rock Dump, located in Juneau, Alaska. The project limits are shown on the plans.

SECTION 00030 NOTICE INVITING BIDS

BIDDING, CONTRACT, or TECHNICAL QUESTIONS. All communications relative to this WORK, prior to opening Bids, shall be directed to the following:

Greg Smith, Contract Administrator
CBJ Engineering Department, 3rd Floor, Marine View Center
Email: greg.smith@juneau.gov
Telephone: (907) 586-0800 ext. 4196

BID SECURITY. Each Bid shall be accompanied by a certified or cashier's check or Bid Bond, in the amount of 5% percent of the Bid, payable to the City and Borough of Juneau, Alaska, as a guarantee that the Bidder, if its Bid is accepted, will promptly execute the Agreement. A Bid shall not be considered unless one of the forms of Bidder's security is provided as prescribed in Section 00100, Article 12, at the time of bid.

CONTRACTOR'S LICENSE. All contractors are required to have a current Alaska Contractor's License, prior to submitting a Bid, and a current Alaska Business License prior to award.

BID TO REMAIN OPEN. The Bidder shall guarantee the Bid for a period of 120 Days from the date of Bid opening. Any component of the Bid may be awarded anytime during the 120 Days.

OWNER'S RIGHTS RESERVED. The OWNER reserves the right to reject any or all Bids, to waive any informality in a Bid, and to make award to the lowest responsive, responsible Bidder as it may best serve the interests of the OWNER.

OWNER: City and Borough of Juneau

By: Carl Uchytel
Carl Uchytel, PE, Port Director

1/29/2026
Date

END OF SECTION

SECTION 00100 - INSTRUCTIONS TO BIDDERS

1.0 DEFINED TERMS. Terms used in these Instructions to Bidders and the Notice Inviting Bids, which are defined in the General Conditions, have the meanings assigned to them in the General Conditions. The term "Bidder" means one who submits a Bid directly to the OWNER, as distinct from a sub-bidder, who submits a Bid to a Bidder.

2.0 INTERPRETATIONS AND ADDENDA.

A. **INTERPRETATIONS.** All questions about the meaning or intent of the Contract Documents are to be directed to the Engineering Contracts Administrator. Interpretations or clarifications considered necessary by the Engineering Contracts Administrator in response to such questions will be issued by Addendum, mailed, faxed, or delivered to all parties recorded by the Engineering Contracts Administrator, or OWNER, as having received the Contract Documents. Questions received less than seven Days prior to the Deadline for Bids may not be answered. Only questions answered by formal written Addendum will be binding. Oral and other interpretations or clarifications will be without legal effect.

B. **ADDENDA.** Addenda may be issued to modify the Contract Documents as deemed advisable by the OWNER. Addenda may be faxed or, if addendum format warrants, addenda may be posted to the CBJ Engineering Department website. In any event, notification of addendum issuance will be faxed to planholders. Hard copies are available upon request. The OWNER will make all reasonable attempts to ensure that all planholders receive notification of Addenda, however, it is strongly recommended by the OWNER that bidders independently confirm the contents, number, and dates of each Addendum prior to submitting a Bid.

3.0 FAIR COMPETITION. More than one Bid from an individual, firm, partnership, corporation, or association under the same or different names will not be considered. If the OWNER believes that any Bidder is interested in more than one Bid for the WORK contemplated, all Bids in which such Bidder is interested will be rejected. If the OWNER believes that collusion exists among the Bidders, all Bids will be rejected.

4.0 RESPONSIBILITY OF BIDDERS. Only responsive Bids from responsible Bidders will be considered. A Bid submitted by a Bidder determined to be not responsible may be rejected. The OWNER may find a bidder to be not responsible for any one of the following reasons, but is not limited in its responsibility analysis to the following factors:

- A. Evidence of bid rigging or collusion;
- B. Fraud or dishonesty in the performance of previous contracts;
- C. Record of integrity;
- D. More than one bid for the same work from an individual, firm, or corporation under the same or different name;
- E. Unsatisfactory performance on previous or current contracts;
- F. Failure to pay, or satisfactorily settle, all bills due for labor and material on previous contracts;

SECTION 00100 - INSTRUCTIONS TO BIDDERS

- G. Uncompleted work that, in the judgment of the OWNER, might hinder or prevent the bidder's prompt completion of additional work, if awarded;
- H. Failure to reimburse the OWNER for monies owed on any previous contracts;
- I. Default under previous contracts;
- J. Failure to comply with any qualification requirements of the OWNER; special standards for responsibility, if applicable, will be specified. These special standards establish minimum standards or experience required for a responsible Bidder on a specific contract;
- K. Engaging in any activity that constitutes a cause for debarment or suspension under the CBJ Procurement Code 53.50 or submitting a bid during a period of debarment;
- L. Lack of skill, ability, financial resources, or equipment required to perform the contract; or
- M. Lack of legal capacity to contract.
- N. Bidders must be registered as required by law and in good standing for all amounts owed to the OWNER per Paragraph 21.0 of this Section.
- O. Failure to submit a complete Subcontractor Report as required in section Section 00360 – Subcontractor Report.

Nothing contained in this section deprives the OWNER of its discretion in determining the lowest responsible bidder. Before a Bid is considered for award, a Bidder may be requested to submit information documenting its ability and competency to perform the WORK, according to general standards of responsibility and any special standards which may apply. It is Bidder's responsibility to submit sufficient, relevant, and adequate information. OWNER will make its determination of responsibility and has no obligation to request clarification or supplementary information.

5.0 NON-RESPONSIVE BIDS. Only responsive Bids will be considered. Bids may be considered non-responsive and may be rejected. Some of the reasons a Bid may be rejected for being non-responsive are:

- A. If a Bid is received by the CBJ Port Director after the Deadline for Bids.
- B. If the Bid is on a form other than that furnished by the OWNER, or legible copies thereof; or if the form is altered or any part thereof is detached; or if the Bid is improperly signed.
- C. If there are unauthorized additions, conditional or alternate Bids, or irregularities of any kind which may tend to make the bid incomplete, indefinite, ambiguous as to its meaning, or in conflict with the OWNER's Bid document.
- D. If the Bidder adds any unauthorized conditions, limitations, or provisions reserving the right to accept or reject any award, or to enter into a contract pursuant to an award. This does not exclude a Bid limiting the maximum gross amount of awards acceptable to any one Bidder at any one Bid opening, provided that any selection of awards will be made by the OWNER.

SECTION 00100 - INSTRUCTIONS TO BIDDERS

- E. If the Bid does not contain a Unit Price for each pay item listed, except in the case of authorized alternate pay items.
- F. If the Bidder has not acknowledged receipt of each Addendum.
- G. If the Bidder fails to furnish an acceptable Bid guaranty with the Bid.
- H. If any of the Unit Prices Bid are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the OWNER.
- I. If a Bid modification does not conform to Article 15.0 of this Section.

6.0 BIDDER'S EXAMINATION OF CONTRACT DOCUMENTS AND SITE. It is the responsibility of each Bidder before submitting a Bid:

- A. To examine thoroughly the Contract Documents, and other related data identified in the Bidding documents (including "technical data" referred to below):
 - 1. To visit the site to become familiar with and to satisfy the Bidder as to the general and local conditions that may affect cost, progress, or performance, of the WORK,
 - 2. To consider federal, state and local laws and regulations that may affect cost, progress, or performance of the WORK,
 - 3. To study and carefully correlate the Bidder's observations with the Contract Documents, and other related data; and
 - 4. To notify the ENGINEER of all conflicts, errors, or discrepancies in or between the Contract Documents and such other related data.

7.0 REFERENCE IS MADE TO THE SUPPLEMENTARY GENERAL CONDITIONS FOR IDENTIFICATION OF:

- A. Those reports of explorations and tests of subsurface conditions at the site which have been utilized by the Engineer of Record in the preparation of the Contract Documents. The Bidder may rely upon the accuracy of the technical data contained in such reports, however, the interpretation of such technical data, including any interpolation or extrapolation thereof, together with non-technical data, interpretations, and opinions contained therein or the completeness thereof is the responsibility of the Bidder.
- B. Those Drawings of physical conditions in or relating to existing surface and subsurface conditions (except underground utilities) which are at or contiguous to the site have been utilized by the Engineer of Record in the preparation of the Contract Documents. The Bidder may rely upon the accuracy of the technical data contained in such Drawings, however, the interpretation of such technical data, including any interpolation or extrapolation thereof, together with nontechnical data, interpretations, and opinions contained in such Drawings or the completeness thereof is the responsibility of the Bidder.
- C. Copies of such reports and Drawings will be made available by the OWNER to any Bidder on request if said reports and Drawings are not bound herein. Those reports and Drawings are not part of the Contract Documents, but the technical data contained therein upon which the Bidder is entitled to rely, as provided in Paragraph SGC-4.2 of the Supplementary General Conditions, are incorporated herein by reference.

SECTION 00100 - INSTRUCTIONS TO BIDDERS

- D. Information and data reflected in the Contract Documents with respect to underground utilities at or contiguous to the site is based upon information and data furnished to the OWNER and the Engineer of Record by the owners of such underground utilities or others, and the OWNER does not assume responsibility for the accuracy or completeness thereof unless it is expressly provided otherwise in the Supplementary General Conditions, or in Section 01530 - Protection and Restoration of Existing Facilities of the General Requirements.
- E. Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders on subsurface conditions, underground utilities and other physical conditions, and possible changes in the Contract Documents due to differing conditions appear in Paragraphs 4.2, 4.3, and 4.4 of the General Conditions.
- F. Before submitting a Bid, each Bidder will, at Bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests, and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface, and underground utilities) at or contiguous to the site or otherwise which may affect cost, progress, or performance of the WORK and which the Bidder deems necessary to determine its Bid for performing the WORK in accordance with the time, price, and other terms and conditions of the Contract Documents.
- G. On request in advance, the OWNER will provide each Bidder access to the site to conduct such explorations and tests as each Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and shall clean up and restore the site to its former condition upon completion of such explorations.
- H. The lands upon which the WORK is to be performed, rights-of-way and easements for access thereto and other lands designated for use by the CONTRACTOR in performing the WORK are identified in the Contract Documents. All additional lands and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by the CONTRACTOR. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by the OWNER unless otherwise provided in the Contract Documents.
- I. The submission of a Bid will constitute an incontrovertible representation by the Bidder that the Bidder has complied with every requirement of Article 6.0, "Bidder's Examination of Contract Documents and Site" herein, that without exception the Bid is premised upon performing the WORK required by the Contract Documents and such means, methods, techniques, sequences, or procedures of construction as may be indicated in or required by the Contract Documents, and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the WORK.

8.0 BID FORM.

- A. The Bid shall be made on the Bid Schedule(s) bound herein, or by another acceptable submission method as specified in Section 00030, Notice Inviting Bids, and shall contain the following: Sections 00300, 00310 or other specified acceptable form of Bid Schedule, the required Bid Security, and any other documents required in Section 00300 – Bid.
- B. All blanks on the Bid Form and Bid Schedule must be completed in ink or typed.

SECTION 00100 - INSTRUCTIONS TO BIDDERS

- C. Bids by corporations must be executed in the corporate name by the president, a vice-president (or other corporate officer). The corporate address and state of incorporation must appear below the signature.
- D. Bids by partnerships must be executed in the partnership name and be signed by a managing partner, and the official address of the partnership must appear below the signature.
- E. The Bidder's Bid must be signed. All names must be printed or typed below the signature.
- F. The Bid shall contain an acknowledgment of receipt of all Addenda, the numbers of which shall be filled in on the Bid form. Failure to acknowledge Addenda may render Bid non-responsive and may cause its rejection.
- G. The address to which communications regarding the Bid are to be directed must be shown.

9.0 QUANTITIES OF WORK. The quantities of WORK, or material, stated in Unit Price items of the Bid are supplied only to give an indication of the general scope of the WORK; the OWNER does not expressly or by implication agree that the actual amount of WORK, or material, will correspond therewith, and reserves the right after award to increase or decrease the amount of any Unit Price item of the WORK by an amount up to and including 25 percent of any Bid item, without a change in the Unit Price, and shall include the right to delete any Bid item in its entirety, or to add additional Bid items up to and including an aggregate total amount not to exceed 25 percent of the Contract Price (see Section 00700 - General Conditions, Article 10 Changes In the WORK).

10.0 SUBSTITUTE OR "OR-EQUAL" ITEMS. Substitution requests are not accepted during the bidding process. The procedure for the submittal of substitute or "or-equal" products is specified in Section 01300 – Contractor Submittals.

11.0 SUBMISSION OF BIDS. The Bid shall be delivered by the time and to the place stipulated in Section 00030 - Notice Inviting Bids. It is the Bidder's sole responsibility to see that its Bid is received in proper time. Hand-delivered, mailed, courier-delivered, oral, telegraphic, emailed, or faxed Bids will not be considered.

12.0 BID SECURITY, BONDS, AND INSURANCE. Each Bid shall be accompanied by a certified, or cashier's check, or approved Bid Bond in an amount of at least 5 percent of the total Bid price. The "total Bid price" is the amount of the Base Bid, plus the amount of alternate Bids, if any, which total to the maximum amount for which the CONTRACT could be awarded. Said check or Bond shall be made payable to the OWNER and shall be given as a guarantee that the Bidder, if offered the WORK, will enter into an Agreement with the OWNER, and will furnish the necessary insurance certificates, Payment Bond, and Performance Bond; each of said Bonds, if required, and insurance amounts shall be as stated in the Supplementary General Conditions. In case of refusal or failure to enter into said Agreement, the check or Bid Bond, as the case may be, may be forfeited to the OWNER. If the Bidder elects to furnish a Bid Bond as its Bid security, the Bidder shall use the Bid Bond form bound herein, or one conforming substantially to it in form. Bid Bonds must be accompanied by a legible Power of Attorney.

Bid Bonds shall be submitted by being scanned and uploaded to Public Purchase along with the other required Bid documents. When a Bid security check is used, it must be received by the

SECTION 00100 - INSTRUCTIONS TO BIDDERS

Purchasing Division prior to the Deadline for Bids. Bid security checks will be time and date stamped by the Purchasing Division, which will establish the official time of receipt.

In addition to uploading a scanned file of the Bid Bond, the original hardcopy Bid Bond shall be submitted and received by the CBJ Contracts Office by 2:00 p.m. Alaska Time no more than seven calendar days after Bid Opening.

In lieu of the original hardcopy Bid Bond submittal requirement, bidders who have a Surety 2000 Bid Bond ID may validate their Bid Bond with Surety 2000 within the Bid Bond Response Information Form in the Public Purchase bid page.

Bid security checks shall be submitted in a sealed envelope that clearly indicates: that a bid security check is enclosed, the name of the bidding firm, and the project name and number. The envelope must not reveal the check amount so that the final Bid price will not be known until the sealed bids are opened.

Bid security checks delivered **in person** or by **courier** service must be delivered to:

PHYSICAL LOCATION:

CBJ Docks and Harbors
Port Director's Office
76 Egan Drive, 2nd Floor
Juneau, AK 99801

Bid security checks delivered by **U.S. Postal Service** must be mailed to:

MAILING ADDRESS:

CBJ Docks and Harbors
Port Director
155 Heritage Way
Juneau, AK 99801

Mailing/delivery times to Alaska may take longer than other areas of the U.S. Late bid security checks may cause a Bid to be deemed non-responsive

13.0 RETURN OF BID SECURITY. The OWNER will return all Bid security checks (certified or cashier's) accompanying such of the Bids as are not considered in making the award. All other Bid securities will be held until the Agreement has been executed. Following execution of the Agreement, all other Bid security checks will be returned to the respective Bidders whose Bids they accompanied and Bid security bonds will be appropriately discarded.

14.0 DISCREPANCIES IN BIDS. In the event there is more than one Pay Item in a Bid Schedule, the Bidder shall furnish a price for all Pay Items in the schedule, and failure to do so may render the Bid non-responsive and cause its rejection. In the event there are Unit Price Pay Items in a Bid Schedule and the "amount" indicated for a Unit Price Bid Item does not equal the product of the Unit Price and quantity, the Unit Price shall govern and the amount will be corrected accordingly, and the Bidder shall be bound by said correction. In the event there is more than one Pay Item in a Bid Schedule and the total indicated for the schedule does not agree with the sum of the prices Bid on the individual items, the prices Bid on the individual items shall govern and the total for the schedule will be corrected accordingly, and the Bidder shall be bound by said correction.

15.0 BID MODIFICATIONS AND UNAUTHORIZED ALTERNATIVE BIDS.

- A. Any bidder may deliver a modification to a bid in person, by mail or fax (907-586-0295), provided that such modification is received by the Port Director no later than the deadline for bids. Modifications will be time and date stamped by the Port Director, which will establish the official time of receipt of the modification. The modification must not reveal

SECTION 00100 - INSTRUCTIONS TO BIDDERS

the bid price but should be in the form of an addition or subtraction or other modification so that the final prices will not be known until the sealed bid is opened.

The Bid modifications shall be provided on the **Bid Modification Form** located at the end of this Section. Submittal of any other form by the vendor may deem the modification unacceptable by the OWNER. **A mail or fax modification should not reveal the Bid price but should provide the addition or subtraction or other modification so that the final prices will not be known by the City and Borough until the sealed Bid is opened.** Submitted Modification forms shall include the modification to the unit price or lump sum amount of each pay item modified.

FAX DISCLAIMER: It is the responsibility of the bidder to submit modifications in a timely manner. Bidders' use of a fax machine to modify their bid shall be at bidders' sole risk. The Port Director will attempt to keep the fax machine in good working order but will not be responsible for bid modifications that are late due to mechanical failure, a busy fax machine, or any other cause arising from bidder's use of a fax machine, even if bidder submits a transmission report or provides other confirmation indicating that the bidder transmitted a bid modification prior to the deadline. The City will not be responsible for its failure to receive the modification whether such failure is caused by equipment or human error, or otherwise. Bidders are therefore strongly encouraged to confirm receipt of their bid modification with the Port Director (907-586-0292) prior to deadline.

- B. Conditioned bids, limitations, or provisos attached to the Bid or bid modification will render it unauthorized and cause its rejection as being non-responsive. The completed Bid forms shall be without interlineations, alterations, or erasures in the printed text. All changes shall be initialed by the person signing the Bid. Alternative Bids will not be considered unless called for.

16.0 WITHDRAWAL OF BID. Prior to the Deadline for Bids, the Bid may be withdrawn by the Bidder by means of a written request, signed by the Bidder or its properly authorized representative. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of Bids.

17.0 AWARD OF CONTRACT.

- A. Award of a contract, if it is awarded, will be on the basis of materials and equipment described in the Drawings or specified in the Technical Specifications and will be made to the lowest responsive, responsible Bidder whose Bid complies with all the requirements prescribed. Unless otherwise specified, any such award will be made within the period stated in the Notice Inviting Bids that the Bids are to remain open. Unless otherwise indicated, a single award will be made for all the Bid items in an individual Bid Schedule.
- B. If the OWNER has elected to advertise this Project with a Base Bid and Alternates, the OWNER may elect to award the contract for the Base Bid, or the Base Bid in combination with one or more Alternates selected by the OWNER. In either case, award shall be made to the responsive, responsible bidder offering the lowest total Bid for the WORK to be awarded.

SECTION 00100 - INSTRUCTIONS TO BIDDERS

- C. Low Bidder will be determined on the basis of the lowest total of the Base Bid plus combinations of Alternates if funding allows, as selected by the Selection Committee through the process described below.
- 1 Prior to the Deadline for Bids, a Selection Committee will be appointed by the Owner.
 - 2 The Selection Committee will be sequestered in a conference room apart from the bid opening room at the time of bid opening.
 - 3 The CBJ Purchasing staff will open bids. A bid summary sheet will be compiled without bidder identification, so that the Selection Committee will have no knowledge of which bids were made by which bidders.
 - 4 The bid summary sheet will be delivered to the Selection Committee by the Engineering Contract Administrator.
 - 5 The Selection Committee will choose the low bid comprised of the Base Bid and those Alternates deemed to be in the best interest of the project and within the approved construction budget. For award purposes, the CBJ will add any Alternate to the Total Base Bid Amount in Section 00310 – Bid Schedule.
 - 6 The Selection Committee will identify in order from low to high the bids received for the project and the results will be posted.

18.0 EXECUTION OF AGREEMENT.

- A. All Bids of value greater than \$100,000 must be approved by the CBJ Assembly. After the CBJ Assembly has approved the award and after the Bid protest period, the OWNER will issue a Notice of Intent to Award to the approved Bidder. The Bidder to whom award is made shall execute a written Agreement with the OWNER on the Agreement form, Section 00500, collect insurance, and shall furnish all certificates and Bonds required by the Contract Documents within 10 Days (calendar) from the date of the Notice of Intent to Award letter.
- B. Failure or refusal to enter into the Agreement as herein provided or to conform to any of the stipulated requirements in connection therewith shall be just cause for annulment of the award and forfeiture of the Bid security. If the lowest responsive, responsible Bidder refuses or fails to execute the Agreement, the OWNER may award the contract to the second lowest responsive, responsible Bidder. If the second lowest responsive, responsible Bidder refuses or fails to execute the Agreement, the OWNER may award the contract to the third lowest responsive, responsible Bidder. On the failure or refusal of such second or third lowest Bidder to execute the Agreement, each such Bidder's Bid securities shall be likewise forfeited to the OWNER.

19.0 LIQUIDATED DAMAGES. Provisions for liquidated damages if any, are set forth in Section 00500 - Agreement.

20.0 FILING A PROTEST.

- A. A Bidder may protest the proposed award of a competitive sealed Bid by the City and Borough of Juneau. The protest shall be executed in accordance with CBJ Ordinance 53.50.062 PROTESTS and CBJ Ordinance 53.50.080 ADMINISTRATION OF PROTEST. The entire text of the CBJ Purchasing Ordinance can be accessed at the CBJ website, <http://www.juneau.org/law/code/code.php>, or call the CBJ Purchasing Division at (907) 586-5258 for a copy of the ordinance.

SECTION 00100 - INSTRUCTIONS TO BIDDERS

B. Late protests shall not be considered by the CBJ Port Director.

21.0 CONTRACTOR'S GOOD STANDING WITH CBJ FINANCE DEPARTMENT: Contractors must be in good standing with the CBJ prior to award, and prior to any contract renewals, and in any event no later than ***seven business days*** following notification by the CBJ of intent to award. **Good standing** means: all amounts owed to the CBJ are current and the Contractor is not delinquent with respect to any taxes, fees, assessment, or other monies due and owed the CBJ, or a Confession of Judgment has been executed and the Contractor is in compliance with the terms of any stipulation associated with the Confession of Judgment, including being current as to any installment payments due; and Contractor is current in all CBJ reporting obligations (such as sales tax registration and reporting and business personal property declarations). Failure to meet these requirements may be cause for rejection of your bid. To determine if your business is in good standing, or for further information, contact the CBJ Finance Department's Sales Tax Division at (907) 586-5215 for sales tax issues, Assessor's Office at (907)586-5215 for business personal property issues, or Collections Division at (907) 586-5215 for all other accounts.

22.0 PERMITS AND LICENSES. The CONTRACTOR is responsible for all WORK associated with meeting any local, state, and/or federal permit and licensing requirements.

SECTION 00100 - INSTRUCTIONS TO BIDDERS

CITY AND BOROUGH OF JUNEAU
CBJ DOCKS AND HARBORS
FAX NO. 907-586-0295

BID MODIFICATION FORM

Modification Number: _____

Modification Page ____ of ____

Note: All modifications shall be made to the original bid amount(s). If more than one Modification form is submitted by any one bidder, changes from all Modification forms submitted will be combined and applied to the original bid. Changes to the modified Bid amounts will be calculated by the OWNER. Bidder may use multiple modification pages if required.

PAY ITEM NO.	PAY ITEM DESCRIPTION	MODIFICATIONS TO UNIT PRICE OR LUMP SUM (<i>indicate +/-</i>)

Base Bid Total Increase or Decrease: \$ _____

PAY ITEM No.	ALTERNATE PAY ITEM DESCRIPTION	MODIFICATIONS TO UNIT PRICE OR LUMP SUM (<i>indicate +/-</i>)

Alternate Total Increase or Decrease: \$ _____

Name of Bidding Firm

Responsible Party Signature

Printed Name (must be an authorized signatory for Bidding Firm)

END OF SECTION

SECTION 00300 - BID

BID TO: THE CITY AND BOROUGH OF JUNEAU

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the OWNER on the form included in the Contract Documents (as defined in Article 7 of Section 00500 - Agreement) to perform the WORK as specified or indicated in said Contract Documents entitled

LITTLE ROCK DUMP SECURE STORAGE Contract No. DH26-015

2. Bidder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the "Notice Inviting Bids" and "Instructions to Bidders," dealing with the disposition of the Bid Security.
3. This Bid will remain open for the period stated in the "Notice Inviting Bids" unless otherwise required by law. Bidder will enter into an Agreement within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders," and will furnish insurance certificates, Payment Bond, Performance Bond, and any other documents as may be required by the Contract Documents.
4. Bidder has familiarized itself with the nature and extent of the Contract Documents, WORK, site, locality where the WORK is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the WORK and has made such independent investigations as Bidder deems necessary.
5. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.
6. To all the foregoing, and including all Bid Schedule and information required of Bidder contained in this Bid Form, said Bidder further agrees to complete the WORK required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefore the Contract Price based on the total bid price(s) named in the aforementioned Bid Schedule.
7. Bidder has examined copies of all the Contract Documents including the following Addenda (receipt of all of which is hereby acknowledged by the Undersigned):

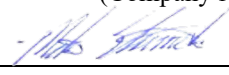
Addenda No.	Date Issued
01	02/17/26
02	02/23/26

Addenda No.	Date Issued

Give number and date of each Addenda above. Failure to acknowledge receipt of all Addenda may cause the Bid to be non-responsive and may cause its rejection.

SECTION 00300 - BID

8. The Bidder has read this Bid and agrees to the conditions as stated herein by signing its signature in the space provided below.

Dated: <u>02/24/26</u>	Bidder: <u>Island Contractors, Inc.</u> (Company Name)
Alaska CONTRACTOR's Business License No: <u>1037746</u>	By: <u></u> (Signature)
Alaska CONTRACTOR's License No: <u>111031</u>	Printed Name: <u>Mike Sturrock</u>
Telephone No: <u>(907) 500-9041</u>	Title: <u>Vice President</u>
Fax No: <u>(907) 500-9051</u>	Address: <u>P.O. Box 241036</u> (Street or P.O. Box)
E-mail: <u>mike@islandcontractorsak.com</u>	<u>Douglas, AK 99824</u> (City, State, Zip)

9. **TO BE CONSIDERED, ALL BIDDERS MUST COMPLETE AND INCLUDE THE FOLLOWING AT THE TIME OF THE DEADLINE FOR BIDS. MISSING DOCUMENTS MAY DEEM THIS BID NON-RESPONSIVE:**

- Bid, Section 00300 (includes Addenda receipt statement)
- Completed Bid Schedule, Section 00310, or other acceptable form of Bid Schedule as specified in Section 00030, Notice Inviting Bids
- Bid Security (Bid Bond, Section 00320, or by a certified or cashier's check as stipulated in the Notice Inviting Bids, Section 00030)
- **Contractor Financial Responsibility, Section 00370**
- Copy of Current Alaska Contractors License

10. The apparent low Bidder is required to complete and submit the following documents by 4:30 p.m. on the **fifth business day** following the date of the Posting Notice.

- Subcontractor Report, Section 00360

The apparent low Bidder who fails to submit a completed Subcontractor Report within the time specified in Section 00360 – Subcontractor Report may be found to be not a responsible Bidder and may be required to forfeit the Bid security. The OWNER may then consider the next lowest Bidder for award of the contract.

11. The successful Bidder will be required to submit, **within ten Days (calendar)** after the date of the “Notice of Intent to Award” letter, the following executed documents:

- Agreement Forms, Section 00500
- Performance Bond, Section 00610
- Payment Bond, Section 00620
- Certificates of Insurance, (CONTRACTOR) Section 00700 and Section 00800

END OF SECTION

SECTION 00310 - BID SCHEDULE

BASE BID

PAY ITEM NO.	PAY ITEM DESCRIPTION	PAY UNIT	APPROX. QUANTITY	UNIT PRICE		AMOUNT	
				DOLLARS	CENTS	DOLLARS	CENTS
1505.1	Mobilization	Lump Sum	All Req'd	Lump	Sum	26,000	00
1570.1	Erosion and Sediment Control	Lump Sum	All Req'd	Lump	Sum	3,000	00
2201.1	Clearing and Grubbing	Lump Sum	All Req'd	Lump	Sum	12,000	00
2201.2	Construction Material Relocation	Lump Sum	All Req'd	Lump	Sum	23,400	00
2202.1	Excavation	CY	90	25	00	2,250	00
2202.2	Selected Embankment	CY	980	45	00	44,100	00
2202.3	Road Cleaning & Mining Area Restoration Guarantee	Contingent Sum	All Req'd	Contingent	Sum	\$5,000	.00
2204.1	2-Inch Minus Shot Rock w/ Base Course	CY	690	100	00	69,000	00
2501.1	12-Inch CPP Pipe Culvert	LF	27	100	00	2,700	00
2702.1	Construction Surveying	Lump Sum	All Req'd	Lump	Sum	12,500	00
2707.1	8-Foot Chain Link Fence	LF	490	130	00	63,700	00
2707.2	Single Cantilever Gate, 20-ft Wide	EA	1	13,600	00	13,600	00
2710.1	Seeding, Hydraulic Method, Type III	SU	1	2,500	00	2,500	00
2714.1	Separation Geotextile	SY	2,500	6	00	15,000	00

TOTAL BASE BID: 294,750.00

ADDITIVE ALTERNATE 1

ITEM NO.	PAY ITEM DESCRIPTION	PAY UNIT	APPROX. QUANTITY	UNIT PRICE		AMOUNT	
				DOLLARS	CENTS	DOLLARS	CENTS
16000.1	Electrical	Lump Sum	All Req'd	Lump	Sum	124,000	00

TOTAL ADDITIVE ALTERNATE BID: 124,000.00

COMPANY NAME: Island Contractors, Inc.

SECTION 00320 - BID BOND

KNOW ALL PERSONS BY THESE PRESENTS, that Island Contractors, Inc.

as Principal, and SureTec Insurance Company

as Surety, are held and firmly bound unto THE CITY AND BOROUGH OF JUNEAU hereinafter called "OWNER," in the sum of ---Five Percent (5%) of the total Bid price---

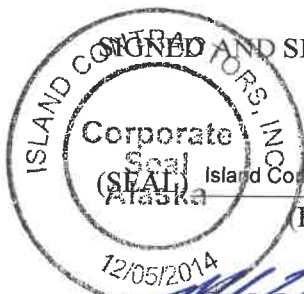
_____ dollars, (not less than five percent of the total amount of the Bid) for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the Bid Schedule of the OWNER's Contract Documents entitled

**LITTLE ROCK DUMP
SECURE STORAGE
Contract No. DH26-015**

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders" enters into a written Agreement on the form of Agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 19th day of February, 2026



By: [Signature]
(Signature)

(SEAL) SureTec Insurance Company
(Surety)

By: Christine L. Larson
Christine L. Larson (Signature) Attorney-in-Fact



END OF SECTION

LITTLE ROCK DUMP SECURE STORAGE
Contract No. DH26-015

BID BOND
Page 00320-1

JOINT LIMITED POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That SureTec Insurance Company, a Corporation duly organized and existing under the laws of the State of Texas and having its principal office in the County of Harris, Texas and Markel Insurance Company (the "Company"), a corporation duly organized and existing under the laws of the state of Illinois, and having its principal administrative office in Glen Allen, Virginia, does by these presents make, constitute and appoint:

Guy Armfield, John Claeys, Scott Fisher, Nicholas Fredrickson, Deanna M. French, Scott Garcia, Elizabeth R. Hahn, Roger Kaltenbach, Ronald J. Lange, Susan B. Larson, Scott McGilvray, Mindee L. Rankin, Jana M. Roy, Andrew Kerslake, Alec Gumpfer, Katelyn Cooper, Christine L. Larson, Rebecca Sarmiento, Kyle Dozier, Janteane Blyton, Alex Giannini

Their true and lawful agent(s) and attorney(s)-in-fact, each in their separate capacity if more than one is named above, to make, execute, seal and deliver for and on their own behalf, individually as a surety or jointly, as co-sureties, and as their act and deed any and all bonds and other undertaking in suretyship provided, however, that the penal sum of any one such instrument executed hereunder shall not exceed the sum of:

Fifty Million and 00/100 Dollars (\$50,000,000.00)

This Power of Attorney is granted and is signed and sealed under and by the authority of the following Resolutions adopted by the Board of Directors of SureTec Insurance Company and Markel Insurance Company:

"RESOLVED, That the President, any Senior Vice President, Vice President, Assistant Vice President, Secretary, Assistant Secretary, Treasurer or Assistant Treasurer and each of them hereby is authorized to execute powers of attorney, and such authority can be executed by use of facsimile signature, which may be attested or acknowledged by any officer or attorney, of the company, qualifying the attorney or attorneys named in the given power of attorney, to execute in behalf of, and acknowledge as the act and deed of the SureTec Insurance Company and Markel Insurance Company, as the case may be, all bond undertakings and contracts of suretyship, and to affix the corporate seal thereto."

IN WITNESS WHEREOF, Markel Insurance Company and SureTec Insurance Company have caused their official seal to be hereunto affixed and these presents to be signed by their duly authorized officers on the 10th day of December, 2024.

SureTec Insurance Company

By: _____

Michael C. Keimig, President



Markel Insurance Company

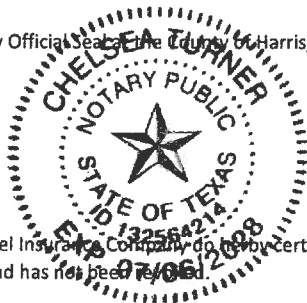
By: _____

Lindey Jennings, Vice President

State of Texas
County of Harris:

On this 10th day of December, 2024 A. D., before me, a Notary Public of the State of Texas, in and for the County of Harris, duly commissioned and qualified, came THE ABOVE OFFICERS OF THE COMPANIES, to me personally known to be the individuals and officers described in, who executed the preceding instrument, and they acknowledged the execution of same, and being by me duly sworn, disposed and said that they are the officers of the said companies aforesaid, and that the seals affixed to the proceeding instrument are the Corporate Seals of said Companies, and the said Corporate Seals and their signatures as officers were duly affixed and subscribed to the said instrument by the authority and direction of the said companies, and that Resolutions adopted by the Board of Directors of said Companies referred to in the preceding instrument is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand, and affixed my Official Seal to the County of Harris, the day and year first above written.



By: _____

Chelsea Turner, Notary Public

My commission expires 7/6/2028

We, the undersigned Officers of SureTec Insurance Company and Markel Insurance Company, do hereby certify that the original POWER OF ATTORNEY of which the foregoing is a full, true and correct copy is still in full force and effect and has not been revoked.

IN WITNESS WHEREOF, we have hereunto set our hands, and affixed the Seals of said Companies, on the 19th day of February, 2026.

SureTec Insurance Company

By: _____

M. Brent Beaty, Assistant Secretary

Markel Insurance Company

By: _____

Andrew Marquis, Assistant Secretary

SECTION 00360 - SUBCONTRACTOR REPORT

LIST OF SUBCONTRACTORS (AS 36.30.115)

The apparent low Bidder must submit a list of Subcontractors that the Bidder proposes to use in the performance of this contract ***on the fifth business day*** following the Posting Notice of Bids. If the fifth day falls on a weekend or holiday, the report is due by close of business on the next business Day following the weekend or holiday. The Subcontractor Report list must include each Subcontractor's name, address, location, evidence of valid Alaska Business License, and valid Alaska Contractor's Registration under AS 08.18. ***If no Subcontractors are to be utilized in the performance of the WORK, write in ink or type "NONE" on line (1) below.***

<u>SUBCONTRACTOR</u>	¹ AK Contractor <u>License No.</u>	¹ <u>Contact Name</u>	<u>Type of</u>	<u>Contract</u>	☐
<u>ADDRESS</u>	² AK Business <u>License No.</u>	² <u>Phone No.</u>	<u>Work</u>	<u>Amount</u>	☒ if <u>DBE</u>
1. <u>DOWL</u> <u>3030 Vintage Blvd. Suite 200</u> <u>Juneau, AK 99801</u>	¹ <u>AECL848</u> ² <u>229766</u>	<u>Bob Lafavour</u> <u>(907) 780-3533</u>	<u>Surveying</u>	\$ <u>9,150.00</u>	☐
2. <u>Roadrunner Fence</u> <u>5430 Bent Ct.</u> <u>Juneau, AK 99801</u>	¹ <u>21918</u> ² <u>172647</u>	<u>Mark Krall</u> <u>(907) 780-2228</u>	<u>Fencing</u>	\$ <u>49,850.00</u>	☐
3. <u>Ever Electric</u> <u>5351 Commercial Blvd.</u> <u>Juneau, AK 99801</u>	¹ <u>CONS25722</u> ² <u>217361</u>	<u>Jerry Gabor</u> <u>(907) 780-2280</u>	<u>Electrical</u>	\$ <u>98,500.00</u>	☒
4. _____ _____ _____	¹ _____ ² _____	_____ _____	_____	\$ _____	☐

I certify that the above listed Alaska Business License(s) and CONTRACTOR Registration(s), if applicable, were valid at the time Bids were opened for this Project.



CONTRACTOR, Authorized Signature

Mike Sturrock

CONTRACTOR, Printed Name

Island Contractors, Inc.

COMPANY

SECTION 00360 - SUBCONTRACTOR REPORT

- A. A Bidder may replace a listed Subcontractor if the Subcontractor:
1. fails to comply with AS 08.18;
 2. files for bankruptcy or becomes insolvent;
 3. fails to execute a contract with the Bidder involving performance of the WORK for which the Subcontractor was listed and the Bidder acted in good faith;
 4. fails to obtain bonding;
 5. fails to obtain insurance acceptable to the OWNER;
 6. fails to perform the contract with the Bidder involving work for which the Subcontractor was listed;
 7. must be substituted in order for the CONTRACTOR to satisfy required state and federal affirmative action requirements;
 8. refuses to agree or abide with the Bidder's labor agreement; or
 9. is determined by the OWNER not to be responsible.
 10. is not in "Good Standing" with the OWNER as required in Article 21.0 in Section 00100 – Instructions to Bidders.
- B. If a Bidder fails to list a Subcontractor or lists more than one Subcontractor for the same portion of WORK, the Bidder shall be considered to have agreed to perform that portion of WORK without the use of a Subcontractor and to have represented the Bidder to be qualified to perform that WORK.
- C. A Bidder who attempts to circumvent the requirements of this section by listing as a Subcontractor another contractor who, in turn, sublets the majority of the WORK required under the contract violates this section.
- D. If a contract is awarded to a Bidder who violates this section, the OWNER may:
1. cancel the contract; or
 2. after notice and a hearing, assess a penalty on the Bidder in an amount that does not exceed 10 percent of the value of the subcontract at issue.
- E. On the Subcontractor Report, the apparent low Bidder must list any Subcontractors anticipated to perform WORK with a value of greater than one-half of one percent of the intended award amount, or \$2,000, whichever is less.
- F. An apparent low Bidder who fails to submit a completed Subcontractor Report within the time specified in this section may be found to be not a responsible Bidder and may be required to forfeit the Bid security. The OWNER will then consider the next lowest Bidder for award of the contract.

END OF SECTION

SECTION 00370 - CONTRACTOR'S FINANCIAL RESPONSIBILITY

To be considered, all bidders must complete and include this form ***at the time of the deadline for bids***. Attach additional sheets as necessary to respond to questions.

PROJECT: DH26-015, LITTLE ROCK DUMP SECURE STORAGE

As the General Contractor on this project, I intend to subcontract 22 % of the total value of this contract.

A. EXPERIENCE

1. Have you ever failed to complete a contract due to insufficient resources?

☒ No ☐ Yes If YES, explain:

2. Describe arrangements you have made to finance this work:

N/A

3. Have you had previous construction contracts or subcontracts with the City and Borough of Juneau?

☒ Yes ☐ No

4. Describe your most recent or current contract, its completion date, and scope of work:

Capital Transit Facility Bus Storage Bay 1 - OH Door Replacement

Completion 10/26/25

Remove & replace 2 OH doors, electrical, and sprinkler modifications

5. List below, and/or as an attachment to this questionnaire, other construction projects you have completed, dates of completion, scope of work, and total contract amount for each project completed in the past twelve months.

Attached

SECTION 00370 - CONTRACTOR'S FINANCIAL RESPONSIBILITY

6. Per Alaska Statute 36.90.210, on previous public contracts, have you ever failed to pay a subcontractor within eight working days after receiving payment from the Owner (for projects occurring within the last 3 years)?

☐ Yes ☒ No If yes, please attach a detailed explanation for each occurrence.

B. EQUIPMENT

1. Describe below, and/or as an attachment, the equipment you have available and intend to use for this project.

ITEM	QUANTITY	MAKE	MODEL	SIZE/CAPACITY	PRESENT MARKET VALUE
Excavator	1	Cat	310	22,000 LBS	140,000.00
Loader	1	Cat	930	3 YD	180,000.00
Tractor/Trailer	1	Kenworth	T800	20 YD	60,000.00
Dump Truck	1	Kenworth	T800	10 YD	90,000.00
Telehandler	1	Genie	842	8,000 LBS	40,000.00
Roller	1	Cat	CS54B	84" Drum	90,000.00

2. Do you propose to purchase any equipment for use on this project not listed on table B-1?

☒ No ☐ Yes If YES, describe type, quantity, and approximate cost:

3. Do you propose to rent any equipment for this work not listed on table B-1?

☒ No ☐ Yes If YES, describe type and quantity:

SECTION 00370 - CONTRACTOR'S FINANCIAL RESPONSIBILITY

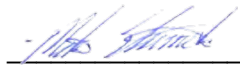
4. Is your bid based on firm offers for all materials necessary for this project?

☒ Yes ☐ No If NO, please explain:

I hereby certify that the above statements are true and complete.

Island Contractors, Inc.

Contractor



Signature

Mike Sturrock, Vice President

Name and Title of Person Signing

02/24/26

Date



Projects Completed in Past 12 Months

Capital Transit Facility Bus Storage Bay 1 – OH Door Replacement

Completed 10/27/25

Valuation \$108,200

Scope of Work: Building Improvements

Hank Harmon Public Range Improvements

Completed 09/05/25

Valuation \$877,089.20

Scope of Work: Site Civil, Concrete, Building Structure Improvements

2025 JNU GLOF

Completed 09/02/25

Valuation \$652,459.83

Scope of Work: Fill, Rip Rap Riverbank Armoring, Emergency Road /Bridge Repairs

JIA Riverbank Stabilization

Completed 07/25/25

Valuation \$256,765

Scope of Work: Rip Rap Riverbank Armoring

R/V Medeia Flooring Replacement

Completed 04/04/25

Valuation \$288,226

Scope of Work: Abatement, Epoxy Floors

Adair Kennedy Field Dugout Improve

Completed 04/11/25

Valuation \$215,831

Scope of Work: CMU, Roof, Paint, Furnishings

SVDP North Steel Stair Replacement

Completed 12/05/24

Valuation \$151,410

Scope of Work: Site Civil, Galvanize Steel Fire Escape

UAS Bollard Replace

Completed 11/27/24

Valuation \$351,120

Scope of Work: Vertical Pivot Gate Installation



Carrol Way & Martin Way Stair Replacement
Completed 11/15/24
Valuation \$566,843
Scope of Work: Public Stair Replacements

Linkup Building
Completed 09/21/24
Valuation \$1,669,176
Scope of Work: New Building

JSOB Coffee Kiosk
Completed 09/06/24
Valuation \$84,693
Scope of Work: Remodel

GHS Building 8 Reno
Completed 08/01/24
Valuation \$705,870
Scope of Work: Remodel of Existing Building

LDS SKG Reroof & Seismic
Completed 08/21/24
Valuation \$277,730
Scope of Work: New Roof and Seismic Upgrades

Kake Adaptive Re-Use Historic Cannery
Completed 07/06/24
Valuation \$2,396,575
Scope of Work: Historic Building Remodel

ADOC JCO Expansion
Completed 05/30/24
Valuation \$426,616
Scope of Work: Interior Tenant Improvement

AOB/CPB Office Renovations
Completed 04/24/24
Valuation \$1,448,914.54
Scope of Work: Interior Tenant Improvement

SECTION 00500 - AGREEMENT

THIS AGREEMENT is between THE CITY AND BOROUGH OF JUNEAU (hereinafter called OWNER) and ISLAND CONTRACTORS, INC. (hereinafter called CONTRACTOR) OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1. WORK.

CONTRACTOR shall complete the WORK as specified or as indicated under the Bid Schedule of the OWNER's Bid Documents entitled Contract No. DH26-015, LITTLE ROCK DUMP SECURE STORAGE.

The WORK is generally described as follows; This Project consists of clearing and grading the existing site, along with applying a new recycled asphalt surface. The work additionally includes the installation of security fencing and lighting.

The WORK to be paid under this contract shall include the following: Total Bid as shown in Section 00310 - Bid Schedule.

ARTICLE 2. CONTRACT COMPLETION TIME.

<u>Work Description</u>	<u>Completion Date</u>
Substantial Completion	July 1, 2026
Final Completion	July 15, 2026

ARTICLE 3. DATE OF AGREEMENT

The date of this Agreement will be the date of the last signature on page three of this section.

ARTICLE 4. LIQUIDATED DAMAGES.

OWNER and the CONTRACTOR recognize that time is of the essence of this Agreement and that the OWNER will suffer financial loss if the WORK is not completed within the time specified in Article 2 herein, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. They also recognize the delays, expense, and difficulties involved in proving in a legal proceeding the actual damages suffered by the OWNER if the WORK is not completed on time. Accordingly, instead of requiring any such proof, the OWNER and the CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) the CONTRACTOR shall pay the OWNER **\$250 for each Day** that expires after the completion time specified in Article 2 herein. The amount of liquidated damages specified above is agreed to be a reasonable estimate based on all facts known as of the date of this Agreement.

ARTICLE 5. CONTRACT PRICE.

OWNER shall pay CONTRACTOR for completion of the WORK in accordance with the Contract Documents in the amount set forth in the Bid Schedule. The CONTRACTOR agrees to accept as full and complete payment for all WORK to be done in this contract for: Contract No. DH26-015, LITTLE ROCK DUMP SECURE STORAGE those Unit Price amounts as set forth in the Bid Schedule in the Contract Documents for this Project.

The total amount of this contract shall be Four Hundred Eighteen Thousand, Seven Hundred Fifty Dollars & 00/100ths (\$418,750.00), except as adjusted in accordance with the provisions of the Bid Documents.

SECTION 00500 - AGREEMENT

ARTICLE 6. PAYMENT PROCEDURES.

CONTRACTOR shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by the ENGINEER as provided in the General Conditions.

Progress payments will be paid in full in accordance with Article 14 of the General Conditions until ninety (90) percent of the Contract Price has been paid. The remaining ten (10) percent of the Contract Price may be retained, in accordance with applicable Alaska State Statutes, until final inspection, completion, and acceptance of the Project by the OWNER.

ARTICLE 7. CONTRACT DOCUMENTS.

The Contract Documents which comprise the entire Agreement between OWNER and CONTRACTOR concerning the WORK consist of this Agreement (pages 00500-1 to 00500-6, inclusive) and the following sections of the Contract Documents:

- Table of Contents (pages 00005-1, inclusive)
- Notice Inviting Bids (pages 00030-1 to 00030-3, inclusive).
- Instructions to Bidders (pages 00100-1 to 00100-9, inclusive).
- Bid (pages 00300-1 to 00300-2, inclusive).
- Bid Schedule (pages 00310-1, inclusive).
- Bid Bond (page 00320-1, inclusive) or Bid Security.
- Subcontractor Report (pages 00360-1 to 00360-2, inclusive).
- Performance Bond (pages 00610-1 to 00610-2, inclusive).
- Payment Bond (pages 00620-1 to 00620-2, inclusive).
- Insurance Certificate(s).
- General Conditions (pages 00700-1 to 00700-48, inclusive).
- Supplementary General Conditions (pages 00800-1 to 00800-6, inclusive).
- Alaska Labor Standards, Reporting, and Prevailing Wage Determination (page 00830-1).
- Technical Specifications as listed in the Table of Contents.
- Drawings consisting of 16 sheets, as listed in the Table of Contents.
- Addenda numbers 1 to 2, inclusive.
- Change Orders which may be delivered or issued after the Date of the Agreement and which are not attached hereto.

There are no Contract Documents other than those listed in this Article 7. The Contract Documents may only be amended by Change Order as provided in Paragraph 3.3 of the General Conditions.

ARTICLE 8. MISCELLANEOUS.

Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meanings indicated in the General Conditions.

SECTION 00500 - AGREEMENT

ARTICLE 8. MISCELLANEOUS. (Cont'd.)

No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically but without limitation monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

OWNER and CONTRACTOR each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents. This Agreement shall be governed by the laws of the State of Alaska. Jurisdiction shall be in the State of Alaska, First Judicial District.

IN WITNESS WHEREOF, OWNER and CONTRACTOR have caused this Agreement to be executed on the date listed below by OWNER.

OWNER:

City and Borough of Juneau
Carl Uchytel
(Signature)

By: Carl Uchytel, PE, Port Director
(Printed Name)

Date: Mar 13, 2026

OWNER's address for giving notices:

155 Heritage Way
Juneau, Alaska 99801
907-586-0292 907-586-0295
(Telephone) (Fax)

CONTRACTOR:

Island Contractors, Inc.
(Company Name)
[Signature]
(Signature)

By: Mike Sturrock, Vice President
(Printed Name, Authority or Title)

CONTRACTOR Signature Date: 03/03/26

CONTRACTOR's address for giving notices:

PO Box 241036
Douglas, Alaska 99824
907-500-9041 907-500-9051
(Telephone) (Fax)
mike@islandcontractorsak.com
(E-mail address)

Contractor License No. 111031

SECTION 00500 - AGREEMENT

CERTIFICATE
(if Corporation)

STATE OF AK)
) SS:
COUNTY OF JNU

I HEREBY CERTIFY that a meeting of the Board of Directors of the
Island Contractors, Inc. a corporation existing under the laws of
the State of Alaska, held on April 22, 2025, the following resolution
was duly passed and adopted:

"RESOLVED, that Mike Sturrock, as Vice President
of the Corporation, be and is hereby authorized to **execute the Agreement** with the CITY AND
BOROUGH OF JUNEAU and this corporation and that the execution thereof, attested by the
Secretary of the Corporation, and with the Corporate Seal affixed, shall be the official act and
deed of this Corporation."

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the
corporation this 03 day of March, 2026.



[Signature]
Secretary

SECTION 00610 - PERFORMANCE BONDKNOW ALL PERSONS BY THESE PRESENTS: That we ISLAND CONTRACTORS, INC

(Name of Contractor)

a Corporation

(Corporation, Partnership, Individual)

hereinafter called "Principal" and SureTec Insurance Company

(Surety)

of Houston, State of Texas hereinafter called the "Surety," are held andfirmly bound to the CITY AND BOROUGH of JUNEAU, ALASKA hereinafter called "OWNER,"

(Owner)

(City and State)

for the penal sum of Four Hundred Eighteen Thousand, Seven Hundred Fifty Dollars & 00/100ths (\$418,750.00), in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the CONTRACTOR has entered into a certain contract with the OWNER, the effective date of which is (CBJ Contracts Office to fill in effective date) 3/13/2026, a copy of which is hereto attached and made a part hereof for the construction of:

**LITTLE ROCK DUMP
SECURE STORAGE
Contract No. DH26-015**

NOW, THEREFORE, if the Principal shall truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof, which may be granted by the OWNER, with or without notice to the Surety, and if it shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the Specifications.

PROVIDED, FURTHER, that no final settlement between the OWNER and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

SECTION 00610 - PERFORMANCE BOND

LITTLE ROCK DUMP
SECURE STORAGE
Contract No. DH26-015

IN WITNESS WHEREOF, this instrument is issued in two (2) identical counterparts, each one of which shall be deemed an original.

CONTRACTOR: Island Contractors, Inc.

By: 
(Signature)

Mike Sturrock, Vice President
(Printed Name)

Island Contractors, Inc.
(Company Name)

PO Box 241036
(Street or P.O. Box)

Douglas, Alaska 99824
(City, State, Zip Code)

SURETY: SureTec Insurance Company

By: 
(Signature of Attorney-in-Fact)

Date Issued: 3/13/2026

Christine L. Larson, Attorney-in-Fact
(Printed Name)

SureTec Insurance Company
(Company Name)

10400 NE 4th St., Suite 900
(Street or P.O. Box)

Bellevue, WA 98004
(City, State, Zip Code)



(Affix SURETY'S SEAL)

NOTE: If **CONTRACTOR** is Partnership, all Partners must execute bond.

END OF SECTION

SECTION 00620 - PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS: That we ISLAND CONTRACTORS, INC
(Name of Contractor)

a Corporation
(Corporation, Partnership, Individual)

hereinafter called "Principal" and SureTec Insurance Company
(Surety)

of Houston, State of Texas hereinafter called the "Surety," are held and
firmly bound to the CITY AND BOROUGH OF JUNEAU, ALASKA hereinafter called "OWNER,"
(Owner) (City and State)

for the penal sum of Four Hundred Eighteen Thousand, Seven Hundred Fifty Dollars & 00/100ths
(\$418,750.00), in lawful money of the United States, for the payment of which sum well and truly to be made,
we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these
presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the CONTRACTOR has entered
into a certain contract with the OWNER, the effective date of which is (CBJ Contracts Office to fill in
effective date) 3/13/2026, a copy of which is hereto attached and made a part hereof for
the construction of:

**LITTLE ROCK DUMP
SECURE STORAGE
Contract No. DH26-015**

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms,
Subcontractors, and corporations furnishing materials for, or performing labor in the prosecution of the
WORK provided for in such contract, and any authorized extension or modification thereof, including all
amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools,
consumed or used in connection with the construction of such WORK, and all insurance premiums on said
work, and for all labor performed in such WORK, whether by Subcontractor or otherwise, then this obligation
shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no
change, extension of time, alteration or addition to the terms of the contract or to the work to be performed
thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond,
and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of
the contract or to the WORK or to the Specifications.

PROVIDED, FURTHER, that no final settlement between the OWNER and the Principal shall
abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

SECTION 00620 - PAYMENT BOND

LITTLE ROCK DUMP
SECURE STORAGE
Contract No. DH26-015

IN WITNESS WHEREOF, this instrument is issued in two (2) identical counterparts, each one of which shall be deemed an original.

CONTRACTOR: Island Contractors, Inc.

By: 
(Signature)

Mike Sturrock, Vice President
(Printed Name)

Island Contractors, Inc.
(Company Name)

PO Box 241036
(Street or P.O. Box)

Douglas, Alaska 99824
(City, State, Zip Code)

SURETY: SureTec Insurance Company

By: 
(Signature of Attorney-in-Fact)

Date Issued: 3/13/2020

Christine L. Larson, Attorney-in-Fact
(Printed Name)

SureTec Insurance Company
(Company Name)

10400 NE 4th St., Suite 900
(Street or P.O. Box)

Bellevue, WA 98004
(City, State, Zip Code)



(Affix SURETY'S SEAL)

NOTE: If CONTRACTOR is Partnership, all Partners must execute bond.

END OF SECTION

JOINT LIMITED POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That SureTec Insurance Company, a Corporation duly organized and existing under the laws of the State of Texas and having its principal office in the County of Harris, Texas and Markel Insurance Company (the "Company"), a corporation duly organized and existing under the laws of the state of Illinois, and having its principal administrative office in Glen Allen, Virginia, does by these presents make, constitute and appoint:

Guy Armfield, John Claeys, Scott Fisher, Nicholas Fredrickson, Deanna M. French, Scott Garcia, Elizabeth R. Hahn, Roger Kaltenebach, Ronald J. Lange, Susan B. Larson, Scott McGilvray, Mindee L. Rankin, Jana M. Roy, Andrew Kerslake, Alec Gumpfer, Katelyn Cooper, Christine L. Larson, Rebecca Sarmiento, Kyle Dozier, Janteane Blyton, Alex Giannini

Their true and lawful agent(s) and attorney(s)-in-fact, each in their separate capacity if more than one is named above, to make, execute, seal and deliver for and on their own behalf, individually as a surety or jointly, as co-sureties, and as their act and deed any and all bonds and other undertaking in suretyship provided, however, that the penal sum of any one such instrument executed hereunder shall not exceed the sum of:

Fifty Million and 00/100 Dollars (\$50,000,000.00)

This Power of Attorney is granted and is signed and sealed under and by the authority of the following Resolutions adopted by the Board of Directors of SureTec Insurance Company and Markel Insurance Company:

"RESOLVED, That the President, any Senior Vice President, Vice President, Assistant Vice President, Secretary, Assistant Secretary, Treasurer or Assistant Treasurer and each of them hereby is authorized to execute powers of attorney, and such authority can be executed by use of facsimile signature, which may be attested or acknowledged by any officer or attorney, of the company, qualifying the attorney or attorneys named in the given power of attorney, to execute in behalf of, and acknowledge as the act and deed of the SureTec Insurance Company and Markel Insurance Company, as the case may be, all bond undertakings and contracts of suretyship, and to affix the corporate seal thereto."

IN WITNESS WHEREOF, Markel Insurance Company and SureTec Insurance Company have caused their official seal to be hereunto affixed and these presents to be signed by their duly authorized officers on the 10th day of December, 2024.

SureTec Insurance Company

By:

Michael C. Keimig, President



Markel Insurance Company

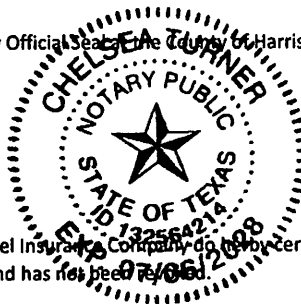
By:

Lindey Jennings, Vice President

State of Texas
County of Harris:

On this 10th day of December, 2024 A. D., before me, a Notary Public of the State of Texas, in and for the County of Harris, duly commissioned and qualified, came THE ABOVE OFFICERS OF THE COMPANIES, to me personally known to be the individuals and officers described in, who executed the preceding instrument, and they acknowledged the execution of same, and being by me duly sworn, disposed and said that they are the officers of the said companies aforesaid, and that the seals affixed to the proceeding instrument are the Corporate Seals of said Companies, and the said Corporate Seals and their signatures as officers were duly affixed and subscribed to the said instrument by the authority and direction of the said companies, and that Resolutions adopted by the Board of Directors of said Companies referred to in the preceding instrument is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand, and affixed my Official Seal to the County of Harris, the day and year first above written.



By:

Chelsea Turner, Notary Public
My commission expires 7/6/2028

We, the undersigned Officers of SureTec Insurance Company and Markel Insurance Company, do hereby certify that the original POWER OF ATTORNEY of which the foregoing is a full, true and correct copy is still in full force and effect and has not been revoked.

IN WITNESS WHEREOF, we have hereunto set our hands, and affixed the Seals of said Companies, on the 13th day of March, 2026.

SureTec Insurance Company

By:

M. Brent Beaty, Assistant Secretary

Markel Insurance Company

By:

Andrew Marquis, Assistant Secretary

SECTION 00700 - GENERAL CONDITIONS

TABLE OF CONTENTS (Revised 03-2003)

ARTICLE 1 DEFINITIONS.....	00700-5
-----------------------------------	----------------

ARTICLE 2 PRELIMINARY MATTERS

2.1	Delivery of Bonds/Insurance Certificates	00700-9
2.2	Copies of Documents	00700-9
2.3	Commencement of Contract Time; Notice to Proceed	00700-9
2.4	Starting the WORK	00700-9
2.5	Pre-construction Conference	00700-9
2.6	Finalizing CONTRACTOR Submittals	00700-9

ARTICLE 3 CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.1	Intent	00700-10
3.2	Order of Precedence of Contract Documents.....	00700-10
3.3	Amending and Supplementing Contract Documents	00700-11
3.4	Reuse of Documents	00700-11

ARTICLE 4 AVAILABILITY OF LANDS; PHYSICAL CONDITIONS; REFERENCE POINTS

4.1	Availability of Lands	00700-11
4.2	Physical Conditions - Subsurface and Existing Structures	00700-11
4.3	Differing Site Conditions	00700-12
4.4	Physical Conditions - Underground Utilities	00700-12
4.5	Reference Points	00700-13
4.6	Use of the CBJ/State Lemon Creek Gravel Pit	00700-13

ARTICLE 5 BONDS AND INSURANCE

5.1	Performance, Payment and Other Bonds	00700-14
5.2	Insurance	00700-15

ARTICLE 6 CONTRACTOR'S RESPONSIBILITIES

6.1	Supervision and Superintendence	00700-17
6.2	Labor, Materials, and Equipment.....	00700-17
6.3	Adjusting Progress Schedule	00700-18
6.4	Substitutes or "Or Equal" Items	00700-19
6.5	Concerning Subcontractors, Suppliers and Others.....	00700-19
6.6	Permits	00700-19
6.7	Patent Fees and Royalties	00700-20
6.8	Laws and Regulations	00700-20

ARTICLE 6 CONTRACTOR'S RESPONSIBILITIES (Cont'd.)

SECTION 00700 - GENERAL CONDITIONS

6.9	Taxes	00700-20
6.10	Use of Premises.....	00700-20
6.11	Safety and Protection	00700-21
6.12	Shop Drawings and Samples.....	00700-22
6.13	Continuing the WORK.....	00700-22
6.14	Indemnification	00700-22
6.15	Contractor's Daily Reports	00700-23
6.16	Assignment of Contract	00700-23
6.17	Contractor's Responsibility for Utility Property and Services	00700-23
6.18	Operating Water System Valves	00700-24
6.19	CONTRACTOR's WORK Schedule Limitations	00700-24

ARTICLE 7 OTHER WORK

7.1	Related WORK at Site	00700-24
7.2	Coordination.....	00700-25

ARTICLE 8 OWNER'S RESPONSIBILITIES

8.1	Communications	00700-25
8.2	Payments	00700-25
8.3	Lands, Easements, and Surveys	00700-25
8.4	Change Orders.....	00700-25
8.5	Inspections and Tests	00700-25
8.6	Suspension of WORK.....	00700-25
8.7	Termination of Agreement.....	00700-25

ARTICLE 9 ENGINEER'S STATUS DURING CONSTRUCTION

9.1	OWNER 's Representative	00700-25
9.2	Visits to Site	00700-25
9.3	Project Representation	00700-26
9.4	Clarifications and Interpretations	00700-28
9.5	Authorized Variations in WORK.....	00700-28
9.6	Rejecting Defective WORK.....	00700-28
9.7	CONTRACTOR Submittals, Change Orders, and Payments	00700-28
9.8	Decisions on Disputes	00700-28
9.9	Limitation on Engineer's Responsibilities.....	00700-29

SECTION 00700 - GENERAL CONDITIONS

ARTICLE 10 CHANGES IN THE WORK

10.1	General.....	00700-30
10.2	Allowable Quantity Variations	00700-30

ARTICLE 11 CHANGE OF CONTRACT PRICE

11.1	General.....	00700-31
11.2	Costs Relating to Weather.....	00700-31
11.3	Cost of WORK (Based on Time and Materials)	00700-32
11.4	CONTRACTOR's Fee.....	00700-34
11.5	Excluded Costs.....	00700-35

ARTICLE 12 CHANGE OF CONTRACT TIME

12.1	General.....	00700-36
12.2	Extensions of Time for Delay Due to Weather	00700-36

ARTICLE 13 WARRANTY AND GUARANTEE; TESTS AND INSPECTIONS; CORRECTION, REMOVAL, OR ACCEPTANCE OF DEFECTIVE WORK

13.1	Warranty and Guarantee	00700-37
13.2	Access to WORK	00700-37
13.3	Tests and Inspections	00700-37
13.4	OWNER May Stop the WORK	00700-38
13.5	Correction or Removal of Defective WORK.....	00700-38
13.6	One Year Correction Period.....	00700-39
13.7	Acceptance of Defective WORK	00700-39

ARTICLE 14 PAYMENTS TO CONTRACTOR AND COMPLETION

14.1	Schedule of Values (Lump Sum Price Breakdown).....	00700-39
14.2	Unit Price Bid Schedule.....	00700-39
14.3	Application for Progress Payment	00700-39
14.4	CONTRACTOR's Warranty of Title	00700-40
14.5	Review of Applications for Progress Payment	00700-40
14.6	Partial Utilization	00700-41
14.7	Substantial Completion	00700-41
14.8	Final Application for Payment.....	00700-41
14.9	Final Payment and Acceptance	00700-42
14.10	Release of Retainage and Other Deductions	00700-42
14.11	CONTRACTOR's Continuing Obligation	00700-42
14.12	Final Payment Terminates Liability of OWNER	00700-43

SECTION 00700 - GENERAL CONDITIONS

ARTICLE 15 SUSPENSION OF WORK AND TERMINATION

15.1	Suspension of WORK by OWNER	00700-43
15.2	Termination of Agreement by OWNER (CONTRACTOR Default).....	00700-43
15.3	Termination of Agreement by OWNER (For Convenience)	00700-43
15.4	Termination of Agreement by CONTRACTOR.....	00700-44

ARTICLE 16 MISCELLANEOUS

16.1	Giving Notice.....	00700-44
16.2	Rights In and Use of Materials Found on the WORK	00700-44
16.3	Right to Audit.....	00700-45
16.4	Archaeological or Historical Discoveries	00700-45
16.5	Construction Over or Adjacent to Navigable Waters.....	00700-45
16.6	Gratuity and Conflict of Interest	00700-45
16.7	Suits of Law Concerning the WORK.....	00700-46
16.8	Certified Payrolls	00700-46
16.9	Prevailing Wage Rates	00700-46
16.10	Employment Reference	00700-47
16.11	Cost Reduction Incentive	00700-47

SECTION 00700 - GENERAL CONDITIONS

ARTICLE 1 DEFINITIONS

Wherever used in these General Conditions or in the Contract Documents the following terms have the meanings indicated which are applicable to both the singular and plural thereof. Where an entire word is capitalized in the definitions and is found not capitalized in the Contract Documents it has the ordinary dictionary definition.

Addenda - Written or graphic instruments issued prior to the opening of Bids which make additions, deletions, or revisions to the Contract Documents.

Agreement - The written contract between the OWNER and the CONTRACTOR covering the WORK to be performed; other documents are attached to the Agreement and made a part thereof as provided therein.

Application for Payment - The form furnished by the ENGINEER which is to be used by the CONTRACTOR to request progress or final payment and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

Asbestos - Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.

Bid - The offer or proposal of the Bidder submitted on the prescribed form setting forth the price or prices for the WORK.

Bonds - Bid, Performance, and Payment Bonds and other instruments which protect against loss due to inability or refusal of the CONTRACTOR to perform its contract.

CBJ Project Manager - The authorized representative of the City and Borough of Juneau Engineering Department, as OWNER, who is responsible for administration of the contract.

Change Order - A document recommended by the ENGINEER, which is signed by the CONTRACTOR and the OWNER and authorizes an addition, deletion, or revision in the WORK, or an adjustment in the Contract Price or the Contract Time, issued on or after the Effective Date of the Agreement.

Contract Documents - The Table of Contents, Notice Inviting Bids, Instructions to Bidders, Bid Forms (including the Bid, Bid Schedule(s), Information Required of Bidder, Bid Bond, and all required certificates and affidavits), Agreement, Performance Bond, Payment Bond, General Conditions, Supplementary General Conditions, Technical Specifications, Drawings, Permits, and all Addenda, and Change Orders executed pursuant to the provisions of the Contract Documents.

Contract Price - The total monies payable by the OWNER to the CONTRACTOR under the terms and conditions of the Contract Documents.

Contract Time - The number of successive calendar Days stated in the Contract Documents for the completion of the WORK.

CONTRACTOR - The individual, partnership, corporation, joint-venture or other legal entity with whom the OWNER has executed the Agreement.

Day - A calendar day of 24 hours measured from midnight to the next midnight.

SECTION 00700 - GENERAL CONDITIONS

Defective WORK - WORK that is unsatisfactory, faulty, or deficient; or that does not conform to the Contract Documents; or that does not meet the requirements of any inspection, reference standard, test, or approval referred to in the Contract Documents; or WORK that has been damaged prior to the ENGINEER's recommendation of final payment.

Drawings - The Drawings, plans, maps, profiles, diagrams, and other graphic representations which indicate the character, location, nature, extent, and scope of the WORK and which have been prepared by the ENGINEER and are referred to in the Contract Documents. Shop Drawings are not within the meaning of this paragraph.

Effective Date of the Agreement - The date indicated in the Agreement on which it becomes effective, but if no such date is indicated it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.

Engineer of Record - The individual, partnership, corporation, joint-venture or other legal entity named as such in the Contract Documents.

ENGINEER - The ENGINEER is the firm or person(s) selected by the City and Borough of Juneau (CBJ) to perform the duties of project inspection and management. CBJ will inform the CONTRACTOR of the identity of the ENGINEER at or before the Notice to Proceed.

Field Order - A written order issued by the ENGINEER which may or may not involve a change in the WORK.

General Requirements - Division 1 of the Technical Specifications.

Hazardous Waste - The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 9603) as amended from time to time.

Holidays - The CBJ legal holidays occur on:

1. New Year's Day - January 1
2. Martin Luther King's Birthday - Third Monday in January
3. President's Day - Third Monday in February
4. Seward's Day - Last Monday in March
5. Memorial Day - Last Monday in May
6. Independence Day - July 4
7. Labor Day - First Monday in September
8. Alaska Day - October 18
9. Veteran's Day - November 11
10. Thanksgiving Day - Fourth Thursday and the following Friday in November
11. Christmas Day - December 25

If any holiday listed above falls on a Saturday, Saturday and the preceding Friday are both legal holidays. If the holiday should fall on a Sunday, Sunday and the following Monday are both legal holidays.

Inspector - The authorized representative of the ENGINEER assigned to make detailed inspections for conformance to the Contract Documents. Any reference to the Resident Project Representative in this document shall mean the Inspector.

SECTION 00700 - GENERAL CONDITIONS

Laws and Regulations; Laws or Regulations - Any and all applicable laws, rules, regulations, ordinances, codes, and/or orders of any and all governmental bodies, agencies, authorities and courts having jurisdiction.

Mechanic's Lien - A form of security, an interest in real property, which is held to secure the payment of an obligation. When referred to in these Contract Documents, "Mechanic's Lien" or "lien" means "Stop Notice".

Milestone - A principal event specified in the Contract Documents relating to an intermediate completion date of a portion of the WORK, or a period of time within which the portion of the WORK should be performed prior to Substantial Completion of all the WORK.

Notice of Award - The written notice by the OWNER to the apparent successful bidder stating that the apparent successful bidder has complied with all conditions for award of the contract.

Notice of Completion - A form signed by the ENGINEER and the CONTRACTOR recommending to the OWNER that the WORK is Substantially Complete and fixing the date of Substantial Completion. After acceptance of the WORK by the OWNER's governing body, the form is signed by the OWNER and filed with the County Recorder. This filing starts the 30-day lien filing period on the WORK.

Notice to Proceed - The written notice issued by the OWNER to the CONTRACTOR authorizing the CONTRACTOR to proceed with the WORK and establishing the date of commencement of the Contract Time.

Notice of Intent to Award - The written notice by the OWNER to the apparent successful bidder stating that upon compliance by the apparent successful bidder with the requirements listed therein, within the time specified, the OWNER will enter into an Agreement.

OWNER - The City and Borough of Juneau (CBJ), acting through its legally designated officials, officers, or employees.

Partial Utilization - Use by the OWNER or a substantially completed part of the WORK for the purpose for which it is intended prior to Substantial Completion of all the WORK.

PCB's - Polychlorinated biphenyls.

PERMITTEE – See definition for CONTRACTOR.

Petroleum - Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Wastes and crude oils.

Project - The total construction of which the WORK to be provided under the Contract Documents may be the whole, or a part as indicated elsewhere in the Contract Documents.

Radioactive Material - Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.

SECTION 00700 - GENERAL CONDITIONS

Shop Drawings - All Drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for the CONTRACTOR and submitted by the CONTRACTOR, to the ENGINEER, to illustrate some portion of WORK.

Specifications - Same definition as "Technical Specifications" hereinafter.

Stop Notice - A legal remedy for Subcontractors and suppliers who contribute to public works, but who are not paid for their WORK, which secures payment from construction funds possessed by the OWNER. For public property, the Stop Notice remedy is designed to substitute for mechanic's lien rights.

Sub-Consultant - The individual, partnership, corporation, joint-venture or other legal entity having a direct contract with ENGINEER, or with any of its Consultants to furnish services with respect to the Project.

Subcontractor - An individual, partnership, corporation, joint-venture or other legal entity having a direct contract with the CONTRACTOR, or with any of its Subcontractors, for the performance of a part of the WORK at the site.

Substantial Completion - Refers to when the WORK has progressed to the point where, in the opinion of the ENGINEER as evidenced by Notice of Completion as applicable, it is sufficiently complete, in accordance with the Contract Documents, so that the WORK can be utilized for the purposes for which it is intended; or if no such notice is issued, when final payment is due in accordance with Paragraph 14.8. The terms "substantially complete" and "substantially completed" as applied to any WORK refer to substantial completion thereof.

Supplementary General Conditions (SGC) - The part of the Contract Documents which make additions, deletions, or revisions to these General Conditions.

Supplier - A manufacturer, fabricator, supplier, distributor, materialman, or vendor.

Technical Specifications - Divisions 1 through 16 of the Contract Documents consisting of the General Requirements and written technical descriptions of products and execution of the WORK.

Underground Utilities - All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials: water, sewage and drainage removal, electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, traffic, or other control systems.

WORK, Work - The entire completed construction or the various separately identifiable parts thereof required to be furnished under the Contract Documents. WORK is the result of performing, or furnishing labor and furnishing and incorporating materials and equipment into the construction, and performing or furnishing services and furnishing documents, all as required by the Contract Documents.

SECTION 00700 - GENERAL CONDITIONS

ARTICLE 2 PRELIMINARY MATTERS

- 2.1 DELIVERY OF BONDS/INSURANCE CERTIFICATES. When the CONTRACTOR delivers the signed Agreements to the OWNER, the CONTRACTOR shall also deliver to the OWNER such Bonds and Insurance Policies and Certificates as the CONTRACTOR may be required to furnish in accordance with the Contract Documents.
- 2.2 COPIES OF DOCUMENTS. The OWNER shall furnish to the CONTRACTOR the required number of copies of the Contract Documents specified in the Supplementary General Conditions.
- 2.3 COMMENCEMENT OF CONTRACT TIME; NOTICE TO PROCEED. The Contract Time will start to run on the commencement date stated in the Notice to Proceed.
- 2.4 STARTING THE WORK
- A. The CONTRACTOR shall begin to perform the WORK within 10 days after the commencement date stated in the Notice to Proceed, but no WORK shall be done at the site prior to said commencement date.
 - B. Before undertaking each part of the WORK, the CONTRACTOR shall carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements. The CONTRACTOR shall promptly report in writing to the ENGINEER any conflict, error, or discrepancy which the CONTRACTOR may discover and shall obtain a written interpretation or clarification from the ENGINEER before proceeding with any WORK affected thereby.
 - C. The CONTRACTOR shall submit to the ENGINEER for review those documents called for under Section 01300 - CONTRACTOR Submittals in the General Requirements.
- 2.5 PRE-CONSTRUCTION CONFERENCE. The CONTRACTOR is required to attend a Pre-Construction Conference. This conference will be attended by the ENGINEER and others as appropriate in order to discuss the WORK in accordance with the applicable procedures specified in the General Requirements, Section 01010 - Summary of WORK in the General Requirements.
- 2.6 FINALIZING CONTRACTOR SUBMITTALS. At least 7 days before submittal of the first Application for Payment a conference attended by the CONTRACTOR, the ENGINEER and others as appropriate will be held to finalize the initial CONTRACTOR submittals in accordance with the General Requirements. As a minimum the CONTRACTOR's representatives should include the project manager and schedule expert. The CONTRACTOR should plan on this meeting taking no less than 8 hours. If the submittals are not finalized at the end of the meeting, additional meetings will be held so that the submittals can be finalized prior to the submittal of the first application for payment. No application for payment will be processed until CONTRACTOR submittals are finalized.

SECTION 00700 - GENERAL CONDITIONS

ARTICLE 3 CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.1 INTENT

- A. The Contract Documents comprise the entire Agreement between the OWNER and the CONTRACTOR concerning the WORK. The Contract Documents shall be construed as a whole in accordance with Alaska Law.
- B. It is the intent of the Contract Documents to describe the WORK, functionally complete, to be constructed in accordance with the Contract Documents. Any work, materials, or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result shall be supplied whether or not specifically called for. When words or phrases which have a well-known technical or construction industry or trade meaning are used to describe work, materials, or equipment such words or phrases shall be interpreted in accordance with that meaning, unless a definition has been provided in Article 1 of the General Conditions. Reference to standard specifications, manuals, or codes of any technical society, organization, or association, or to the Laws or Regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, or Laws or Regulations in effect at the time of opening of Bids, except as may be otherwise specifically stated. However, no provision of any referenced standard specification, manual, or code (whether or not specifically incorporated by reference in the Contract Documents) shall be effective to change the duties and responsibilities of the OWNER, the CONTRACTOR, or the ENGINEER or any of their consultants, agents, or employees from those set forth in the Contract Documents.
- C. If, during the performance of the WORK, CONTRACTOR discovers any conflict, error, ambiguity or discrepancy within the Contract Documents or between the Contract Documents and any provision of any such Law or Regulation applicable to the performance of the WORK or of any such standard, specification, manual or code or of any instruction of any Supplier referred to in paragraph 6.5, the CONTRACTOR shall report it to the ENGINEER in writing at once, and the CONTRACTOR shall not proceed with the WORK affected thereby (except in an emergency as authorized by the ENGINEER) until a clarification field order, or Change Order to the Contract Documents has been issued.

3.2 ORDER OF PRECEDENCE OF CONTRACT DOCUMENTS

- A. In resolving conflicts resulting from, errors, or discrepancies in any of the Contract Documents, the order of precedence shall be as follows:
 - 1. Permits from other agencies as may be required by law, excepting the definition of "PERMITEE" in these permits.
 - 2. Field Orders
 - 3. Change Orders
 - 4. ENGINEER's written interpretations and clarifications.
 - 5. Agreement
 - 6. Addenda
 - 7. CONTRACTOR's Bid (Bid Form)
 - 8. Supplementary General Conditions
 - 9. Notice Inviting Bids
 - 10. Instructions to Bidders

SECTION 00700 - GENERAL CONDITIONS

11. General Conditions
12. Technical Specifications
13. Drawings

B. With reference to the Drawings the order of precedence is as follows:

1. Figures govern over scaled dimensions
2. Detail Drawings govern over general Drawings
3. Addenda/ Change Order drawings govern over Contract Drawings
4. Contract Drawings govern over standard drawings

3.3 AMENDING AND SUPPLEMENTING CONTRACT DOCUMENTS. The Contract Documents may be amended to provide for additions, deletions, and revisions in the WORK or to modify the terms and conditions thereof by a Change Order (pursuant to Article 10 CHANGES IN THE WORK).

3.4 REUSE OF DOCUMENTS. Neither the CONTRACTOR, nor any Subcontractor or Supplier, nor any other person or organization performing any of the WORK under a contract with the OWNER shall have or acquire any title to or ownership rights in any of the Drawings, Technical Specifications, or other documents used on the WORK, and they shall not reuse any of them on the extensions of the Project or any other project without written consent of the OWNER.

ARTICLE 4 AVAILABILITY OF LANDS; PHYSICAL CONDITIONS; REFERENCE POINTS

4.1 AVAILABILITY OF LANDS. The OWNER shall furnish, as indicated in the Contract Documents, the lands upon which the WORK is to be performed, rights-of-way and easements for access thereto, and such other lands which are designated for the use of the CONTRACTOR. Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by the OWNER, unless otherwise provided in the Contract Documents. Nothing contained in the Contract Documents shall be interpreted as giving the CONTRACTOR exclusive occupancy of the lands or rights-of-way provided. The CONTRACTOR shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment; provided, that the CONTRACTOR shall not enter upon nor use any property not under the control of the OWNER until a written temporary construction easement, lease or other appropriate agreement has been executed by the CONTRACTOR and the property owner, and a copy of said agreement furnished to the ENGINEER prior to said use; and, neither the OWNER nor the ENGINEER shall be liable for any claims or damages resulting from the CONTRACTOR's unauthorized trespass or use of any such properties.

4.2 PHYSICAL CONDITIONS - SUBSURFACE AND EXISTING STRUCTURES

A. Explorations and Reports. Reference is made to SGC 4.2 Physical Conditions of the Supplementary General Conditions for identification of those reports of explorations and tests of sub-surface conditions at the site that have been utilized by the ENGINEER in the preparation of the Contract Documents. The CONTRACTOR may rely upon the accuracy of the technical data contained in such reports, however, reports are not to be considered complete or comprehensive and nontechnical data, interpretations, and opinions contained in such reports are not to be relied on by the CONTRACTOR. The CONTRACTOR is

SECTION 00700 - GENERAL CONDITIONS

responsible for any further explorations or tests that may be necessary and any interpretation, interpolation, or extrapolation that it makes of any information shown in such reports.

- B. Existing Structures. Reference is made to SGC 4.2 Physical Conditions of the Supplementary General Conditions for identification of those drawings of physical conditions in or relating to existing surface and subsurface structures (except Underground Utilities referred to in Paragraph 4.4 herein) which are at or contiguous to the site that have been utilized by the ENGINEER in the preparation of the Contract Documents. The CONTRACTOR may rely upon the accuracy of the technical data contained in such drawings, however, nontechnical data, interpretations, and opinions contained in such drawings are not to be relied on by the CONTRACTOR. The CONTRACTOR is also responsible for any interpretation, interpolation, or extrapolation that it makes of any information shown in such drawings.

4.3 DIFFERING SITE CONDITIONS

- A. The CONTRACTOR shall promptly upon discovery (but in no event later than 14 days thereafter) and before the following conditions are disturbed, notify the ENGINEER, in writing of any:
 - 1. Material that the CONTRACTOR believes may be material that is hazardous waste, as defined in Article 1 of these General Conditions, or asbestos, PCB's, petroleum or any other substance or material posing a threat to human or to the environment.
 - 2. Subsurface or latent physical conditions at the site differing from those indicated.
 - 3. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in WORK of the character provided for in the contract.
- B. The OWNER shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the CONTRACTOR's cost of, or the time required for, performance of any part of the WORK shall issue a Change Order under the procedures described in the contract.
- C. In the event that a dispute arises between the OWNER and the CONTRACTOR whether the conditions materially differ, or involved hazardous waste or other materials listed above, or cause a decrease or increase in the CONTRACTOR's cost of, or time required for, performance of any part of the WORK, the CONTRACTOR shall not be excused from any scheduled completion date provided for by the contract, but shall proceed with all WORK to be performed under the contract. The CONTRACTOR shall retain any and all rights provided either by contract or by Law which pertain to the resolution of disputes and protests between the contracting parties.

4.4 PHYSICAL CONDITIONS - UNDERGROUND UTILITIES

- A. Indicated. The information and data indicated in the Contract Documents with respect to existing Underground Utilities at or contiguous to the site are based on information and data furnished to the OWNER or the ENGINEER by the owners of such Underground Utilities or by others. Unless it is expressly provided in the Supplementary General Conditions and/or Section 01530 - Protection and Restoration of Existing Facilities of the General Requirements, the OWNER and the ENGINEER shall not be responsible for the accuracy or completeness of any such information or data, and the CONTRACTOR shall have full

SECTION 00700 - GENERAL CONDITIONS

responsibility for reviewing and checking all such information and data, for locating all Underground Utilities indicated in the Contract Documents, for coordination of the WORK with the owners of such Underground Utilities during construction, for the safety and protection thereof and repairing any damage thereto resulting from the WORK, the cost of which will be considered as having been included in the Contract Price.

- B. Not Indicated. If an Underground Utility is uncovered or revealed at or contiguous to the site which was not indicated in the Contract Documents and which the CONTRACTOR could not reasonably have been expected to be aware of, the CONTRACTOR shall identify the owner of such Underground Utility and give written notice thereof to that owner and shall notify the ENGINEER in accordance with the requirements of the Supplementary General Conditions and Section 01530 - Protection and Restoration of Existing Facilities of the General Requirements.

4.5 REFERENCE POINTS

- A. The ENGINEER will provide one bench mark, near or on the site of the WORK, and will provide two points near or on the site to establish a base line for use by the CONTRACTOR for alignment control. Unless otherwise specified in the General Requirements, the CONTRACTOR shall furnish all other lines, grades, and bench marks required for proper execution of the WORK.
- B. The CONTRACTOR shall preserve all bench marks, stakes, and other survey marks, and in case of their removal or destruction by its own employees or by its Subcontractor's employees, the CONTRACTOR shall be responsible for the accurate replacement of such reference points by personnel qualified under the Alaska Statute governing the licensing of Architects, Engineers, and Land Surveyors.

4.6 USE OF THE CBJ/STATE LEMON CREEK GRAVEL PIT

- A. On City and Borough of Juneau (CBJ) construction projects, the CBJ may make unclassified material available to CONTRACTORs, from the CBJ/State Lemon Creek gravel pit, at a rate less than charged other customers. CONTRACTORs are not required to use material from the CBJ/State pit and the CBJ makes no guarantee as to the quantity or quality of the available material. For this Project, the price shall be \$1.90 per ton.
- B. CONTRACTORs proposing to use gravel from the CBJ/State pit are required to be in good standing for all amounts owed to the CBJ, for previous gravel operations, prior to submitting a mining plan for approval. CONTRACTORs using the pit must comply with Allowable Use Permit USE 98-00047. Failure to meet these requirements, if so subject, shall be sufficient reason to deny use of the CBJ/State pit as a gravel source. To determine if your company is subject to these requirements, contact the CBJ Engineering Department, Gravel Pit Management, at (907) 586-0800.
- C. CONTRACTORs deciding to use material from the CBJ/State pit shall provide an Individual Mining Plan prepared by a professional engineer registered in the State of Alaska. The Individual Mining Plan must be reviewed and approved by the CBJ, prior to commencing operations within the pit. CONTRACTORs shall also secure a Performance Bond to ensure compliance with contract provisions, including any Individual Mining Plan stipulations. The bond shall remain in full force and effect until a release is obtained from the CBJ.

SECTION 00700 - GENERAL CONDITIONS

- D. If CONTRACTOR operations for a project do not exceed 500 tons of material, the CONTRACTOR will not be required to provide an Individual Mining Plan prepared by an engineer. However, the CONTRACTOR must submit an Individual Mining Plan that is in compliance with Allowable Use Permit USE 98-00047 for gravel extraction within the CBJ/State pit. The CONTRACTOR must contact the CBJ Engineering Department for conditions for the extraction.
- E. CONTRACTORS using the CBJ material may do primary dry separation (screening) of materials within the pit. Crushing and washing of material will not be allowed. CONTRACTORS shall account for placement of materials removed from the pit. The CBJ may require CONTRACTORS to cross-check weight tickets, submit to an audit, or participate in other measures required by the CBJ to ensure accountability. Unprocessed overburden removed from the pit will not be weighed. All other material mined will be weighed at the CBJ scale. CONTRACTORS will be responsible for loading and/or screening their own material. If asphalt pavement is removed as part of the WORK, CONTRACTORS shall dispose of the material at a to-be-specified location within the pit area, as directed by the CBJ Project Manager.
- F. The gravel pit overhead charge shall be paid to the CBJ by the CONTRACTOR within 60 days after removal of all materials from the pit and prior to requesting and/or receiving final payment. Upon completion of each excavation CONTRACTORS shall notify the CBJ, in writing, in sufficient time to perform a field-compliance examination prior to vacating the pit. Any significant deviation from the stipulations of the Individual Mining Plan identified during the field inspection shall be corrected by the CONTRACTOR prior to release of the bond. A signed release from CBJ will be required prior to releasing the CONTRACTOR's bond.
- G. If asphalt pavement is removed as part of this WORK, the CONTRACTOR shall dispose of the material at the location designated as the Asphalt Storage Facility, or as directed by the ENGINEER.
- H. The CBJ/State pit is a seasonal operation. The hours of operation are from 7:00 a.m. to 6:00 p.m., Monday through Friday, from April 1 through October 15 of the year. CONTRACTORS may obtain gravel on weekends, or during the off-season, by applying for a separate agreement with the City and Borough of Juneau Engineering Department. The CONTRACTOR will be responsible for any additional costs incurred during weekend or off-season operations at the gravel pit.
- I. All Contractors/Equipment Operators using the CBJ/State Pit shall be in compliance with Federal Mine Safety and Health Administration regulations for quarry and gravel operations.

ARTICLE 5 BONDS AND INSURANCE

5.1 PERFORMANCE, PAYMENT, AND OTHER BONDS

- A. The CONTRACTOR shall furnish, when required, Performance and Payment Bonds on forms provided by the CBJ for the penal sums of 100% of the amount of the Bid award. The surety on each bond may be any corporation or partnership authorized to do business in the State of Alaska as an insurer under AS 21.09. These bonds shall remain in effect for 12

SECTION 00700 - GENERAL CONDITIONS

months after the date of final payment and until all obligations and liens under this contract have been satisfied. The CONTRACTOR shall also furnish such other Bonds as are required by the Supplementary General Conditions. All Bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Government Financial Operations, U.S. Treasury Department. All Bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act.

- B. If the surety on any Bond furnished by the CONTRACTOR is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the WORK is located, the CONTRACTOR shall within 7 days thereafter substitute another Bond and Surety, which must be acceptable to the OWNER.
- C. All Bonds required by the Contract Documents to be purchased and maintained by CONTRACTOR shall be obtained from surety companies that are duly licensed or authorized in the State of Alaska to issue Bonds for the limits so required. Such surety companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary General Conditions. The City Engineer may, on behalf of the OWNER, notify the surety of any potential default or liability.

5.2 INSURANCE

- A. The CONTRACTOR shall purchase and maintain the insurance required under this paragraph. Such insurance shall include the specific coverages set out herein and be written for not less than the limits of liability and coverages provided in the Supplementary General Conditions, or required by law, whichever are greater. All insurance shall be maintained continuously during the life of the Agreement up to the date of Final Completion and at all times thereafter when the CONTRACTOR may be correcting, removing, or replacing Defective WORK in accordance with Paragraph 13.6, but the CONTRACTOR's liabilities under this Agreement shall not be deemed limited in any way to the insurance coverage required.
- B. All insurance required by the Contract Documents to be purchased and maintained by the CONTRACTOR shall be obtained from insurance companies that are duly licensed or authorized in the State of Alaska to issue insurance policies for the limits and coverages so required. Such insurance companies shall have a current Best's Rating of at least an "A" (Excellent) general policy holder's rating and a Class VII financial size category and shall also meet such additional requirements and qualifications as may be provided in the Supplementary General Conditions.
- C. The CONTRACTOR shall furnish the OWNER with certificates showing the type, amount, class of operations covered, effective dates and dates of expiration of policies. All of the policies of insurance so required to be purchased and maintained (or the certificates or other evidence thereof) shall contain a provision or endorsement that the coverage afforded will not be cancelled, reduced in coverage, or renewal refused until at least 30 days' prior written notice has been given to the OWNER by certified mail. All such insurance required herein (except for Workers' Compensation and Employer's Liability) shall name the OWNER, its Consultants and subconsultants and their officers, directors, agents, and employees as

SECTION 00700 - GENERAL CONDITIONS

"additional insureds" under the policies. The CONTRACTOR shall purchase and maintain the following insurance:

1. Workers' Compensation and Employer's Liability. This insurance shall protect the CONTRACTOR against all claims under applicable state workers' compensation laws. The CONTRACTOR shall also be protected against claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a Workers' Compensation law. This policy shall include an "all states" endorsement. The CONTRACTOR shall require each Subcontractor similarly to provide Workers' Compensation Insurance for all of the latter's employees to be engaged in such WORK unless such employees are covered by the protection afforded by the CONTRACTOR's Workers' Compensation Insurance. In case any class of employees is not protected, under the Workers' Compensation Statute, the CONTRACTOR shall provide and shall cause each Subcontractor to provide adequate employer's liability insurance for the protection of such of its employees as are not otherwise protected.
2. Commercial General Liability. This insurance shall be written in comprehensive form and shall protect the CONTRACTOR against all claims arising from injuries to persons other than its employees or damage to property of the OWNER or others arising out of any act or omission of the CONTRACTOR or its agents, employees, or Subcontractors. The policy shall contain no exclusions for any operations within the scope of this contract.
3. Comprehensive Automobile Liability. This insurance shall be written in comprehensive form and shall protect the CONTRACTOR against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, non-owned, or hired. Coverage for hired motor vehicles should include endorsement covering liability assumed under this Agreement.
4. Subcontractor's Commercial General Liability Insurance and Commercial Automobile Liability Insurance. The CONTRACTOR shall either require each of its Subcontractors to procure and to maintain Subcontractor's Commercial General Liability and Property Damage Insurance and Vehicle Liability Insurance of the type and in the amounts specified in the Supplementary General Conditions or insure the activities of its Subcontractors in the CONTRACTOR's own policy, in like amount.
5. Builder's Risk. This insurance shall be of the "all risks" type, shall be written in completed value form, and shall protect the CONTRACTOR, the OWNER, and the ENGINEER, against risks of damage to buildings, structures, and materials and equipment. The amount of such insurance shall be not less than the insurable value of the WORK at completion. Builder's risk insurance shall provide for losses to be payable to the CONTRACTOR and the OWNER, as their interests may appear. The policy shall contain a provision that in the event of payment for any loss under the coverage provided, the insurance company shall have no rights of recovery against the CONTRACTOR, the OWNER, and the ENGINEER. The Builder's Risk policy shall insure against all risks of direct physical loss or damage to property from any external cause including flood and earthquake. Allowable exclusions, if any, shall be as specified in the Supplementary General Conditions.

SECTION 00700 - GENERAL CONDITIONS

ARTICLE 6 CONTRACTOR'S RESPONSIBILITIES

6.1 SUPERVISION AND SUPERINTENDENCE

- A. The CONTRACTOR shall supervise, inspect, and direct the WORK competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the WORK in accordance with the Contract Documents. The CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction and safety precautions and programs incidental thereto. The CONTRACTOR shall be responsible to see that the completed WORK complies accurately with the Contract Documents.
- B. The CONTRACTOR shall designate in writing and keep on the WORK site at all times during its progress a technically qualified, English-speaking superintendent, who is an employee of the CONTRACTOR and who shall not be replaced without written notice to the OWNER and the ENGINEER. The superintendent will be the CONTRACTOR's representative at the site and shall have authority to act on behalf of the CONTRACTOR. All communications given to the superintendent shall be as binding as if given to the CONTRACTOR. The CONTRACTOR shall issue all its communications to the OWNER through the ENGINEER and the ENGINEER only.
- C. The CONTRACTOR's superintendent shall be present at the site of the WORK at all times while WORK is in progress. Failure to observe this requirement shall be considered suspension of the WORK by the CONTRACTOR until such time as such superintendent is again present at the site.

6.2 LABOR, MATERIALS, AND EQUIPMENT

- A. The CONTRACTOR shall provide competent, suitably qualified personnel to survey and lay out the WORK and perform construction as required by the Contract Documents. The CONTRACTOR shall furnish, erect, maintain, and remove the construction plant and any temporary works as may be required. The CONTRACTOR shall at all times maintain good discipline and order at the site. Except in connection with the safety or protection of persons or the WORK or property at the site or adjacent thereto, and except as otherwise indicated in the Contract Documents, all WORK at the site shall be performed during regular working hours, and the CONTRACTOR will not permit overtime work or the performance of work on Saturday, Sunday, or any legal holiday without the OWNER's written consent. The CONTRACTOR shall apply for this consent through the ENGINEER.
- B. Except as otherwise provided in this Paragraph, the CONTRACTOR shall receive no additional compensation for overtime work, i.e., work in excess of 8 hours in any one calendar day or 40 hours in any one calendar week, even though such overtime work may be required under emergency conditions and may be ordered by the ENGINEER in writing. Additional compensation will be paid the CONTRACTOR for overtime work only in the event extra work is ordered by the ENGINEER and the Change Order specifically authorizes the use of overtime work and then only to such extent as overtime wages are regularly being paid by the CONTRACTOR for overtime work of a similar nature in the same locality.

SECTION 00700 - GENERAL CONDITIONS

- C. All costs of inspection and testing performed during overtime work by the CONTRACTOR which is allowed solely for the convenience of the CONTRACTOR shall be borne by the CONTRACTOR. The OWNER shall have the authority to deduct the cost of all such inspection and testing from any partial payments otherwise due to the CONTRACTOR.
 - D. Unless otherwise specified in the Contract Documents, the CONTRACTOR shall furnish and assume full responsibility for all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up, and completion of the WORK.
 - E. All materials and equipment to be incorporated into the WORK shall be of good quality and new, except as otherwise provided in the Contract Documents. All warranties and guarantees specifically called for by the Specifications shall expressly run to the benefit of the OWNER. If required by the ENGINEER, the CONTRACTOR shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment. All materials and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned in accordance with the instructions of the applicable Supplier except as otherwise provided in the Contract Documents; but no provisions of any such instructions will be effective to assign to the ENGINEER, or any of the ENGINEER consultants, agents, or employees, any duty or authority to supervise or direct the furnishing or performance of the WORK or any duty or authority to undertake responsibility contrary to the provisions of Paragraphs 9.9C and 9.9D.
 - F. The CONTRACTOR shall at all times employ sufficient labor and equipment for prosecuting the several classes of WORK to full completion in the manner and time set forth in and required by these specifications. All workers shall have sufficient skill and experience to perform properly the WORK assigned to them. Workers engaged in special WORK, or skilled WORK, shall have sufficient experience in such WORK and in the operation of the equipment required to perform all WORK, properly and satisfactorily.
 - G. Any person employed by the CONTRACTOR or by any Subcontractor who, in the opinion of the ENGINEER, does not perform the WORK in a proper and skillful manner, or is intemperate or disorderly shall, at the written request of the ENGINEER, be removed forthwith by the CONTRACTOR or Subcontractor employing such person, and shall not be employed again in any portion of the WORK without the approval of the ENGINEER. Should the CONTRACTOR fail to remove such person or persons as required above, or fail to furnish suitable and sufficient personnel for the proper prosecution of the WORK, the ENGINEER may suspend the WORK by written notice until such orders are complied with.
- 6.3 ADJUSTING PROGRESS SCHEDULE. The CONTRACTOR shall submit monthly updates of the progress schedule to the ENGINEER for acceptance in accordance with the provisions in Section 01300 - CONTRACTOR Submittals in the General Requirements.
- 6.4 SUBSTITUTES OR "OR-EQUAL" ITEMS. The CONTRACTOR shall submit proposed substitutes or "or-equal" items in accordance with the provisions in Section 01300 - CONTRACTOR Submittals in the General Requirements.
- 6.5 CONCERNING SUBCONTRACTORS, SUPPLIERS, AND OTHERS.

SECTION 00700 - GENERAL CONDITIONS

- A. The CONTRACTOR shall be responsible to the OWNER and the ENGINEER for the acts and omissions of its Subcontractors and their employees to the same extent as CONTRACTOR is responsible for the acts and omissions of its own employees. Nothing contained in this Paragraph shall create any contractual relationship between any Subcontractor and the OWNER or the ENGINEER nor relieve the CONTRACTOR of any liability or obligation under the prime contract.
- B. The CONTRACTOR shall perform not less than 40% of the WORK with its own forces (i.e., without subcontracting). The 40% requirement shall be understood to mean that the CONTRACTOR shall perform, with its own organization, WORK amounting to at least 40% of the awarded contract amount. The 40% requirement will be calculated based upon the total of the subcontract amounts submitted for contract award, and any other information requested by the OWNER from the apparent low bidder.

6.6 PERMITS

- A. Unless otherwise provided in the Supplementary General Conditions, the CONTRACTOR shall obtain and pay for all construction permits and licenses from the agencies having jurisdiction, including the furnishing of insurance and bonds if required by such agencies. The enforcement of such requirements under this contract shall not be made the basis for claims for additional compensation. The OWNER shall assist the CONTRACTOR, when necessary, in obtaining such permits and licenses. The CONTRACTOR shall pay all governmental charges and inspection fees necessary for the prosecution of the WORK, which are applicable at the time of opening of Bids. The CONTRACTOR shall pay all charges of utility owners for connections to the WORK.
- B. These Contract Documents may require that the WORK be performed within the conditions and/or requirements of local, state and/or federal permits. These permits may be bound within the Contract Documents, included within the Contract Documents by reference, or included as part of the WORK, as designated in this Section. The CONTRACTOR is responsible for completing the WORK required for compliance with all permit requirements; this WORK is incidental to other items in the Contract Documents. Any reference to the PERMITTEE in the permits shall mean the CONTRACTOR. If any permits were acquired by the OWNER, this action was done to expedite the start of construction. If the CONTRACTOR does not complete the WORK within the specified permit window, the CONTRACTOR shall be responsible for the permit extension, and for completing any additional requirements placed upon the permit.
- C. The OWNER shall apply for, and obtain, the necessary building permit for this Project, however, the CONTRACTOR is responsible for scheduling and coordinating all necessary inspections. The CBJ Inspection number is 586-1703. All other provisions of this Section remain in effect.

- 6.7 PATENT FEES AND ROYALTIES. The CONTRACTOR shall pay all license fees and royalties and assume all costs incident to the use in the performance of the WORK or the incorporation in the WORK of any invention, design, process, product, software or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the WORK and if to the actual knowledge of the OWNER or the ENGINEER its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed

SECTION 00700 - GENERAL CONDITIONS

by the OWNER in the Contract Documents. The CONTRACTOR shall indemnify, defend and hold harmless the OWNER and the ENGINEER and anyone directly or indirectly employed by either of them from and against all claims, damages, losses, and expenses (including attorneys' fees and court costs) arising out of any infringement of patent rights or copyrights incident to the use in the performance of the WORK or resulting from the incorporation in the WORK of any invention, design, process, product, or device not specified in the Contract Documents, and shall defend all such claims in connection with any alleged infringement of such rights.

- 6.8 LAWS AND REGULATIONS. The CONTRACTOR shall observe and comply with all federal, state, and local laws, ordinances, codes, orders, and regulations which in any manner affect those engaged or employed on the WORK, the materials used in the WORK, or the conduct of the WORK. If any discrepancy or inconsistency should be discovered in this contract in relation to any such law, ordinance, code, order, or regulation, the CONTRACTOR shall report the same in writing to the ENGINEER. The CONTRACTOR shall indemnify, defend, and hold harmless the OWNER, the ENGINEER, and their officers, agents, and employees against all claims or liability arising from violation of any such law, ordinance, code, order, or regulation, whether by CONTRACTOR or by its employees, Subcontractors, or third parties. Any particular law or regulation specified or referred to elsewhere in the Contract Documents shall not in any way limit the obligation of the CONTRACTOR to comply with all other provisions of federal, state, and local laws and regulations. The OWNER may, per AS 36.30, audit the CONTRACTOR's or Subcontractor(s) records that are related to the cost or pricing data for this contract, all related Change Orders, and/or contract modifications.
- 6.9 TAXES. The CONTRACTOR shall pay all sales, consumer, use, and other similar taxes required to be paid by the CONTRACTOR in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the WORK.
- 6.10 USE OF PREMISES. The CONTRACTOR shall confine construction equipment, the storage of materials and equipment, and the operations of workers to (1) the Project site, (2) the land and areas identified in and permitted by the Contract Documents, and (3) the other land and areas permitted by Laws and Regulations, rights-of-way, permits, leases and easements. The CONTRACTOR shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof or of any land or areas contiguous thereto, resulting from the performance of the WORK. Should any claim be made against the OWNER or the ENGINEER by any such owner or occupant because of the performance of the WORK, the CONTRACTOR shall promptly attempt to settle with such other party by agreement or otherwise resolve the claim through litigation. The CONTRACTOR shall, to the fullest extent permitted by Laws and Regulations, indemnify, defend, and hold the OWNER and the ENGINEER harmless from and against all claims, damages, losses, and expenses (including, but not limited to, fees of engineers attorneys, and other professionals and court costs) arising directly, indirectly, or consequentially out of any action, legal or equitable, brought by any such owner or occupant against the OWNER, the ENGINEER, their Consultants, Sub-consultants, and the officers, directors, employees and agents of each and any of them to the extent caused by or based upon the CONTRACTOR's performance of the WORK.
- 6.11 SAFETY AND PROTECTION
- A. The CONTRACTOR shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the WORK. The CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

SECTION 00700 - GENERAL CONDITIONS

1. all employees on the WORK and other persons and organizations who may be affected thereby;
 2. all the WORK and materials and equipment to be incorporated therein, whether in storage on or off the site; and
 3. other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.
- B. The CONTRACTOR shall comply with all applicable Laws and Regulations whether referred to herein or not) of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury, or loss and shall erect and maintain all necessary safeguards for such safety and protection. The CONTRACTOR shall notify owners of adjacent property and utilities when prosecution of the WORK may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property.
- C. The CONTRACTOR shall designate a qualified and experienced safety representative at the site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and program.
- D. Materials that contain hazardous substances or mixtures may be required on the WORK. A Material Safety Data Sheet shall be requested by the CONTRACTOR from the manufacturer of any hazardous product used.
- E. Material usage shall be accomplished with strict adherence to all safety requirements and all manufacturer's warnings and application instructions listed on the Material Safety Data Sheet and on the product container label.
- F. The CONTRACTOR shall be responsible for coordinating communications on any exchange of Material Safety Data Sheets or other hazardous material information that is required to be made available to, or exchanged between, or among, employers at the site in accordance with Laws or Regulations.
- G. The CONTRACTOR shall notify the ENGINEER if it considers a specified product or its intended usage to be unsafe. This notification must be given to the ENGINEER prior to the product being ordered, or if provided by some other party, prior to the product being incorporated in the WORK.

SECTION 00700 - GENERAL CONDITIONS

6.12 SHOP DRAWINGS AND SAMPLES

- A. After checking and verifying all field measurements and after complying with applicable procedures specified in the General Requirements, the CONTRACTOR shall submit to the ENGINEER for review, all Shop Drawings in accordance with Section 01300 - CONTRACTOR Submittals in the General Requirements.
- B. The CONTRACTOR shall also submit to the ENGINEER for review all samples in accordance with Section 01300 - CONTRACTOR Submittals in the General Requirements.
- C. Before submittal of each shop drawing or sample, the CONTRACTOR shall have determined and verified all quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers, and similar data with respect thereto and reviewed or coordinated each Shop Drawing or sample with other Shop Drawings and samples and with the requirements of the WORK and the Contract Documents.

6.13 CONTINUING THE WORK. The CONTRACTOR shall carry on the WORK and adhere to the progress schedule during all disputes or disagreements with the OWNER. No work shall be delayed or postponed pending resolution of any disputes or disagreements, except as the CONTRACTOR and the OWNER may otherwise agree in writing.

6.14 INDEMNIFICATION

- A. To the fullest extent permitted by Laws and Regulations, the CONTRACTOR shall indemnify, defend, and hold harmless the OWNER, the ENGINEER, their Consultants, Sub-consultants and the officers, directors, employees, and agents of each and any of them, against and from all claims and liability arising under, by reason of or incidentally to the contract or any performance of the WORK, but not from the sole negligence or willful misconduct of the OWNER, and the ENGINEER. Such indemnification by the CONTRACTOR shall include but not be limited to the following:
 - 1. Liability or claims resulting directly or indirectly from the negligence or carelessness of the CONTRACTOR, its employees, or agents in the performance of the WORK, or in guarding or maintaining the same, or from any improper materials, implements, or appliances used in its construction, or by or on account of any act or omission of the CONTRACTOR, its employees, agents, or third parties;
 - 2. Liability or claims arising directly or indirectly from bodily injury, occupational sickness or disease, or death of the CONTRACTOR's or Subcontractor's own employees engaged in the WORK resulting in actions brought by or on behalf of such employees against the OWNER, and the ENGINEER;
 - 3. Liability or claims arising directly or indirectly from or based on the violation of any law, ordinance, regulation, order, or decree, whether by the CONTRACTOR, its employees, or agents;
 - 4. Liability or claims arising directly or indirectly from the use or manufacture by the CONTRACTOR, its employees, or agents in the performance of this contract of any copyrighted or non-copyrighted composition, secret process, patented or non-patented invention, computer software, article, or appliance, unless otherwise specifically stipulated in this contract.

SECTION 00700 - GENERAL CONDITIONS

5. Liability or claims arising directly or indirectly from the breach of any warranties, whether express or implied, made to the OWNER or any other parties by the CONTRACTOR, its employees, or agents;
 6. Liabilities or claims arising directly or indirectly from the willful or criminal misconduct of the CONTRACTOR, its employees, or agents; and,
 7. Liabilities or claims arising directly or indirectly from any breach of the obligations assumed herein by the CONTRACTOR.
- B. The CONTRACTOR shall reimburse the ENGINEER and the OWNER for all costs and expenses, (including but not limited to fees and charges of engineers, attorneys, and other professionals and court costs including all costs of appeals) incurred by said OWNER, and the ENGINEER in enforcing the provisions of this Paragraph 6.14.
- C. The indemnification obligation under this Paragraph 6.14 shall not be limited in any way by any limitation of the amount or type of damages, compensation, or benefits payable by or for the CONTRACTOR or any such Subcontractor or other person or organization under workers' compensation acts, disability benefit acts, or other employee benefit acts.
- 6.15 CONTRACTOR'S DAILY REPORTS. The CONTRACTOR shall complete a daily report indicating total manpower for each construction trade, major equipment on site, each Subcontractor's manpower, weather conditions, etc., involved in the performance of the WORK. The daily report shall be completed on forms provided by the ENGINEER and shall be submitted to the ENGINEER at the conclusion of each workday. The report should comment on the daily progress and status of the WORK within each major component of the WORK. These components will be decided by the ENGINEER. CONTRACTOR shall record the name, affiliation, time of arrival and departure, and reason for visit for all visitors to the location of the WORK.
- 6.16 ASSIGNMENT OF CONTRACT. The CONTRACTOR shall not assign, sublet, sell, transfer, or otherwise dispose of the contract or any portion thereof, or its right, title, or interest therein, or obligations thereunder, without the written consent of the OWNER except as imposed by law. If the CONTRACTOR violates this provision, the contract may be terminated at the option of the OWNER. In such event, the OWNER shall be relieved of all liability and obligations to the CONTRACTOR and to its assignee or transferee, growing out of such termination.
- 6.17 CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES. It is understood that any turn-on or turn-off, line locates and any other work or assistance necessary by the CBJ Water Utilities Division, will be at the CONTRACTOR's expense unless otherwise stated in the bid documents. All cost must be agreed to prior to any related actions, and will be considered incidental to the project cost. Billing to the CONTRACTOR will be direct from the CBJ Water Utilities Division.
- 6.18 OPERATING WATER SYSTEM VALVES
- A. The CONTRACTOR shall submit a written request, to the ENGINEER, for approval to operate any valve on any in-service section of the CBJ water system. The request must be submitted at least 24-hours prior to operating any valves. The CBJ Water Utilities Division reserves the right to approve or deny the request. The request shall specifically identify each valve to be operated, the time of operation, and the operation to be performed. The CONTRACTOR shall obtain the written approval of the ENGINEER for any scheduled operation before operating any valve.

SECTION 00700 - GENERAL CONDITIONS

- B. The CONTRACTOR shall be responsible for all damages, both direct and consequential, to the City or any other party, caused by unauthorized operation of any valve of the CBJ water system.
- 6.19 CONTRACTOR'S WORK SCHEDULE LIMITATIONS. Construction of Buildings and Projects. It is unlawful to operate any pile driver, power shovel, pneumatic hammer, derrick, power hoist, or similar heavy construction equipment before 7:00 a.m. or after 10:00 p.m., Monday through Friday, or before 9:00 a.m. or after 10:00 p.m., Saturday and Sunday, unless a permit shall first be obtained from the City and Borough Building Official. Such permit shall be issued by the Building Official only upon a determination that such operation during hours not otherwise permitted hereunder is necessary and will not result in unreasonable disturbance to surrounding residents.

ARTICLE 7 OTHER WORK

7.1 RELATED WORK AT SITE

- A. The OWNER may perform other work related to the Project at the site by the OWNER's own forces, have other work performed by utility owners, or let other direct contracts therefor which may contain General Conditions similar to these. If the fact that such other work is to be performed was not noted in the Contract Documents, written notice thereof will be given to the CONTRACTOR prior to starting any such other work.
- B. The CONTRACTOR shall afford each other contractor who is a party to such a direct contract and each utility owner (or the OWNER, if the OWNER is performing the additional work with the OWNER's employees) proper and safe access to the site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such work, and shall properly connect and coordinate the WORK with theirs. The CONTRACTOR shall do all cutting, fitting, and patching of the WORK that may be required to make its several parts come together properly and integrate with such other work. The CONTRACTOR shall not endanger any work of others by cutting, excavating, or otherwise altering their work and will only cut or alter their work with the written consent of the ENGINEER and the others whose work will be affected.
- C. If the proper execution or results of any part of the CONTRACTOR's work depends upon the work of any such other contractor or utility owner (or OWNER), the CONTRACTOR shall inspect and report to the ENGINEER in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for such proper execution and results. The CONTRACTOR's failure to report such delays, defects, or deficiencies will constitute an acceptance of the other work as fit and proper for integration with the CONTRACTOR's work except for latent or nonapparent defects and deficiencies in the other work.

- 7.2 COORDINATION. If the OWNER contracts with others for the performance of other work on the Project at the site, the person or organization who will have authority and responsibility for coordination of the activities among the various prime contractors will be identified in the Supplementary General Conditions, and the specific matters to be covered by such authority and responsibility will be itemized and the extent of such authority and responsibilities will be provided in the Supplementary General Conditions.

ARTICLE 8 OWNER'S RESPONSIBILITIES

SECTION 00700 - GENERAL CONDITIONS

8.1 COMMUNICATIONS

- A. The OWNER shall issue all its communications to the CONTRACTOR through the ENGINEER.
- B. The CONTRACTOR shall issue all its communications to the OWNER through the ENGINEER.

8.2 PAYMENTS. The OWNER shall make payments to the CONTRACTOR as provided in Paragraphs 14.5, 14.8, 14.9 and 14.10.

8.3 LANDS, EASEMENTS, AND SURVEYS. The OWNER's duties in respect of providing lands and easements and providing surveys to establish reference points are set forth in Paragraphs 4.1 and 4.5.

8.4 CHANGE ORDERS. The OWNER shall execute Change Orders as indicated in Paragraph 10.1F.

8.5 INSPECTIONS AND TESTS. The OWNER's responsibility in respect of inspections, tests, and approvals is set forth in Paragraph 13.3.

8.6 SUSPENSION OF WORK. In connection with the OWNER's right to stop WORK or suspend WORK, see Paragraphs 13.4 and 15.1.

8.7 TERMINATION OF AGREEMENT. Paragraphs 15.2 and 15.3 deal with the OWNER's right to terminate services of the CONTRACTOR.

ARTICLE 9 ENGINEER'S STATUS DURING CONSTRUCTION

9.1 OWNER'S REPRESENTATIVE. The ENGINEER will be the OWNER's representative during the construction period. The duties and responsibilities and the limitations of authority of the ENGINEER as the OWNER's representative during construction are set forth in the Contract Documents.

9.2 VISITS TO SITE. The ENGINEER will make visits to the site during construction to observe the progress and quality of the WORK and to determine, in general, if the WORK is proceeding in accordance with the Contract Documents. Exhaustive or continuous on-site inspections to check the quality or quantity of the WORK will not be required of the ENGINEER. The ENGINEER will not, during such visits, or as a result of such observations of the CONTRACTOR's WORK in progress, supervise, direct, or have control over the CONTRACTOR's WORK.

9.3 PROJECT REPRESENTATION. The ENGINEER may furnish an Inspector to assist in observing the performance of the WORK. The duties, responsibilities, and limitations of authority are as follows:

- A. Duties, Responsibilities and Limitations of Authority of Inspector

General. The Inspector, who is the ENGINEER's Agent, will act as directed by and under the supervision of the ENGINEER and will confer with the ENGINEER regarding its actions. The Inspector's dealings in matters pertaining to the on-site WORK shall, in general, be only with the ENGINEER and the CONTRACTOR, and dealings with Subcontractors shall only

SECTION 00700 - GENERAL CONDITIONS

be through or with the full knowledge of the CONTRACTOR. Written communication with the OWNER will be only through or as directed by the ENGINEER.

Duties and Responsibilities. The Inspector may:

1. Review the progress schedule, list of Shop Drawing submittals and schedule of values prepared by the CONTRACTOR and consult with the ENGINEER concerning their acceptability.
2. Attend pre-construction conferences. Arrange a schedule of progress meetings and other job conferences as required in consultation with the ENGINEER and notify those expected to attend in advance. Attend meetings and maintain and circulate copies of minutes thereof.
3. Serve as the ENGINEER's liaison with the CONTRACTOR, working principally through the CONTRACTOR's superintendent and assist said superintendent in understanding the intent of the Contract Documents. Assist the ENGINEER in serving as the OWNER's liaison with the CONTRACTOR when the CONTRACTOR's operations affect the OWNER's on-site operations.
4. As requested by the ENGINEER, assist in obtaining from the OWNER additional details or information, when required at the site for proper execution of the WORK.
5. Receive and record date of receipt of Shop Drawings and samples, receive samples which are furnished at the site by the CONTRACTOR and notify the ENGINEER of their availability for examination.
6. Conduct on-site observations of the WORK in progress to assist the ENGINEER in determining if the WORK is proceeding in accordance with the Contract Documents.
7. Report to the ENGINEER whenever the Inspector believes that any WORK is unsatisfactory, faulty, or defective or does not conform to the Contract Documents, or does not meet the requirements of any inspection, tests or approval required to be made or has been damaged prior to final payment; and advise the ENGINEER when the Inspector believes WORK should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection, or approval.
8. Verify that the tests, equipment, and systems startups and operating and maintenance instruction are conducted as required by the Contract Documents and in presence of the required personnel, and that the CONTRACTOR maintains adequate records thereof; observe, record and report to the ENGINEER appropriate details relative to the test procedures and start-ups.
9. Accompany visiting inspectors representing public or other agencies having jurisdiction over the WORK, record the outcome of these inspections, and report to the ENGINEER.
10. Transmit to the CONTRACTOR the ENGINEER's clarifications and interpretations of the Contract Documents.
11. Consider and evaluate the CONTRACTOR's suggestions for modifications in the Contract Documents and report them with recommendations to the ENGINEER.
12. Maintain at the job site orderly files for correspondence, reports of job conferences, Shop Drawings and sample submittals, reproductions of original Contract Documents including all addenda, Change Orders, field orders, additional Drawings issued subsequent to the execution of the contract, the ENGINEER's clarifications and interpretations of the Contract Documents, progress reports, and other related documents.
13. Keep a diary or log book, recording hours on the job site, weather conditions, data relative to questions of extras or deductions, list all project visitors, daily activities,

SECTION 00700 - GENERAL CONDITIONS

decisions, observations in general, and specific observations in more detail as in the case of performing and observing test procedures. Send copies to the ENGINEER.

14. Record names, addresses, and telephone numbers of the CONTRACTOR, Subcontractors, and major suppliers of materials and equipment.
15. Furnish the ENGINEER with periodic reports as required of progress of the WORK and the CONTRACTOR's compliance with the accepted progress schedule and schedule of CONTRACTOR submittals.
16. Consult with the ENGINEER in advance of scheduled major tests, inspections, or start of important phases of the WORK.
17. Report immediately to the ENGINEER upon the occurrence of any accident.
18. Review applications for payment with the CONTRACTOR for compliance with the established procedure for their submittal and forward them with recommendations to the ENGINEER, noting particularly their relation to the schedule of values, WORK completed, and materials and equipment delivered at the site but not incorporated in the WORK.
19. During the course of the WORK, verify that certificates, maintenance and operation manuals, and other data required to be assembled and furnished by the CONTRACTOR are applicable to the items actually installed; and deliver this material to the ENGINEER for its review and forwarding to the OWNER prior to final acceptance of the WORK.
20. Before the ENGINEER prepares a Certificate of Substantial Completion/Notice of Completion, as applicable, review the CONTRACTOR's punch list items requiring completion or correction and add any items that CONTRACTOR has omitted.
21. Conduct final inspection in the company of the ENGINEER, the OWNER, and the CONTRACTOR, and prepare a final punch list of items to be completed or corrected.
22. Verify that all items on the punch list have been completed or corrected and make recommendations to the ENGINEER concerning acceptance.

Limitations of Authority. Except upon written instruction of the ENGINEER, the Inspector:

1. Shall not authorize any deviation from the Contract Documents or approve any substitute material or equipment.
2. Shall not exceed limitations on the ENGINEER's authority as set forth in the Contract Documents.
3. Shall not undertake any of the responsibilities of the CONTRACTOR, Subcontractors or CONTRACTOR's superintendent, or expedite the WORK.
4. Shall not advise on or issue directions relative to any aspect of the means, methods, techniques, sequences, or procedures of construction unless such is specifically called for in the Contract Documents.
5. Shall not advise on or issue directions as to safety precautions and programs in connection with the WORK.

9.4 CLARIFICATIONS AND INTERPRETATIONS. The ENGINEER will issue with reasonable promptness such written clarifications or interpretations of the requirements of the Contract Documents (in the form of Drawings or otherwise) as the ENGINEER may determine necessary, which shall be consistent with, or reasonably inferred from, the overall intent of the Contract Documents.

9.5 AUTHORIZED VARIATIONS IN WORK. The ENGINEER may authorize variations in the WORK from the requirements of the Contract Documents. These may be accomplished by a Field Order and

SECTION 00700 - GENERAL CONDITIONS

will require the CONTRACTOR to perform the WORK involved in a manner that minimizes the impact to the WORK and the contract completion date. If the CONTRACTOR believes that a Field Order justifies an increase in the Contract Price or an extension of the Contract Time, the CONTRACTOR may make a claim therefor as provided in Article 11 or 12.

- 9.6 REJECTING DEFECTIVE WORK. The ENGINEER will have authority to reject WORK which the ENGINEER believes to be defective and will also have authority to require special inspection or testing of the WORK as provided in Paragraph 13.3G, whether or not the WORK is fabricated, installed, or completed.

9.7 CONTRACTOR SUBMITTALS, CHANGE ORDERS, AND PAYMENTS

- A. In accordance with the procedures set forth in the General Requirements, the ENGINEER will review all CONTRACTOR submittals, including Shop Drawings, samples, substitutes, or "or equal" items, etc., in order to determine if the items covered by the submittals will, after installation or incorporation in the WORK, conform to the requirements of the Contract Documents and be compatible with the design concept of the completed project as a functioning whole as indicated by the Contract Documents. The ENGINEER's review will not extend to means, methods, techniques, sequences or procedures of construction or to safety precautions or programs incident thereto.
- B. In connection with the ENGINEER's responsibilities as to Change Orders, see Articles 10, 11, and 12.
- C. In connection with the ENGINEER's responsibilities in respect of Applications for Payment, see Article 14.

9.8 DECISIONS ON DISPUTES

- A. The ENGINEER will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the WORK thereunder. Claims, disputes, and other matters relating to the acceptability of the WORK; the interpretation of the requirements of the Contract Documents pertaining to the performance of the WORK; and those claims under Articles 11 and 12 in respect to changes in the Contract Price or Contract Time will be referred initially to the ENGINEER in writing with a request for formal decision in accordance with this paragraph, which the ENGINEER will render in writing within 30 days of receipt of the request. Written notice of each such claim, dispute, and other matter will be delivered by the CONTRACTOR to the ENGINEER promptly (but in no event later than 30 days) after the occurrence of the event giving rise thereto. Written supporting data will be submitted to the ENGINEER within 60 days after such occurrence unless the ENGINEER allows an additional period of time to ascertain more accurate data in support of the claim.
- B. The rendering of a decision by the ENGINEER with respect to any such claim, dispute, or other matter (except any which have been waived by the making or acceptance of final payment as provided in Paragraph 14.12) will be a condition precedent to any exercise by the OWNER or the CONTRACTOR of such rights or remedies as either may otherwise have under the Contract Documents or by Law or Regulations in respect of any such claim, dispute, or other matter.

9.9 LIMITATION ON ENGINEER'S RESPONSIBILITIES

SECTION 00700 - GENERAL CONDITIONS

- A. Neither the ENGINEER's authority to act under this Article or other provisions of the Contract Documents nor any decision made by the ENGINEER in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the ENGINEER to the CONTRACTOR, any Subcontractor, any Supplier, any surety for any of them, or any other person or organization performing any of the WORK.
- B. Whenever in the Contract Documents the terms "as ordered," "as directed," "as required," "as allowed," "as reviewed," "as approved," or terms of like effect or import are used, or the adjectives "reasonable," "suitable," "acceptable," "proper," or "satisfactory" or adjectives of like effect or import are used to describe a requirement, direction, review, or judgment of the ENGINEER as to the WORK, it is intended that such requirement, direction, review, or judgment will be solely to evaluate the WORK for compliance with the requirements of the Contract Documents, and conformance with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents, unless there is a specific statement indicating otherwise. The use of any such term or adjective shall not be effective to assign to the ENGINEER any duty or authority to supervise or direct the performance of the WORK or any duty or authority to undertake responsibility contrary to the provisions of Paragraph 9.9C or 9.9D.
- C. The ENGINEER will not supervise, direct, control, or have authority over or be responsible for the CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of the CONTRACTOR to comply with Laws and Regulations, applicable to the performance of the WORK. The ENGINEER will not be responsible for the CONTRACTOR's failure to perform the WORK in accordance with the Contract Documents.
- D. The ENGINEER will not be responsible for the acts or omissions of the CONTRACTOR nor of any Subcontractor, supplier, or any other person or organization performing any of the WORK.

SECTION 00700 - GENERAL CONDITIONS

ARTICLE 10 CHANGES IN THE WORK

10.1 GENERAL

- A. Without invalidating the Agreement and without notice to any surety, the OWNER may at any time or from time to time, order additions, deletions, or revisions in the WORK; these will be authorized by a written Field Order and/or a Change Order issued by the ENGINEER.
- B. If the CONTRACTOR believes that it is entitled to an increase or decrease in the Contract Price, or an extension or shortening in the Contract Time as the result of a Field Order, a claim may be made as provided in Articles 11 and 12.
- C. If the OWNER and CONTRACTOR agree on the value of any work, or the amount of Contract Time that should be allowed as a result of a Field Order, upon receiving written notice from the ENGINEER, the CONTRACTOR shall proceed so as to minimize the impact on and delays to the work pending the issuance of a Change Order.
- D. If the OWNER and the CONTRACTOR are unable to agree as to the extent, if any, of an increase or decrease in the Contract Price or an extension or shortening of the Contract Time that should be allowed as a result of a Field Order, the ENGINEER can direct the CONTRACTOR to proceed on the basis of Time and Materials so as to minimize the impact on and delays to WORK, and a claim may be made therefor as provided in Articles 11 and 12.
- E. The CONTRACTOR shall not be entitled to an increase in the Contract Price nor an extension of the Contract Time with respect to any work performed that is not required by the Contract Documents as amended, modified, supplemented by Change Order, except in the case of an emergency and except in the case of uncovering work as provided in Paragraph 13.3G.
- F. The OWNER and the CONTRACTOR shall execute appropriate Change Orders covering:
 - 1. changes in the WORK which are ordered by the OWNER pursuant to Paragraph 10.1A;
 - 2. changes required because of acceptance of Defective WORK under Paragraph 13.7;
 - 3. changes in the Contract Price or Contract Time which are agreed to by the parties; or
 - 4. changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by the ENGINEER pursuant to Paragraph 9.8.
- G. If notice of any change is required by the provisions of any Bond to be given to a surety, the giving of any such notice will be the CONTRACTOR's responsibility, and the amount of each applicable Bond shall be adjusted accordingly.

10.2 ALLOWABLE QUANTITY VARIATIONS

- A. In the event of an increase or decrease in Bid item quantity of a unit price contract, the total amount of WORK actually done or materials or equipment furnished shall be paid for according to the unit price established for such WORK under the Contract Documents, wherever such unit price has been established; provided, that an adjustment in the Contract

SECTION 00700 - GENERAL CONDITIONS

Price may be made for changes which result in an increase or decrease in excess of 25% of the estimated quantity of any major item of the WORK. Major Item is defined as any bid item amount that is ten percent (10%) or more of the total contract amount.

- B. In the event a part of the WORK is to be entirely eliminated and no lump sum or unit price is named in the Contract Documents to cover such eliminated work, the price of the eliminated work shall be agreed upon in writing by the OWNER and the CONTRACTOR. If the OWNER and the CONTRACTOR fail to agree upon the price of the eliminated work, said price shall be determined in accordance with the provisions of Article 11.

ARTICLE 11 CHANGE OF CONTRACT PRICE

11.1 GENERAL

- A. The Contract Price constitutes the total compensation payable to the CONTRACTOR for performing the WORK. All duties, responsibilities, and obligations assigned to or undertaken by the CONTRACTOR to complete the WORK shall be at its expense without change in the Contract Price.
- B. The Contract Price may only be changed by a Change Order. Any claim for an increase in the Contract Price shall be based on written notice delivered by the CONTRACTOR to the ENGINEER promptly (but in no event later than 7 days) after the start of the occurrence or the event giving rise to the claim and stating the general nature of the claim. Notice of the amount of the claim with supporting data shall be delivered within 14 days after such occurrence (unless the ENGINEER allows an additional period of time to ascertain more accurate data in support of the claim) and shall be accompanied by the CONTRACTOR's written statement that the amount claimed covers all known amounts (direct, indirect, and consequential) to which the CONTRACTOR is entitled as a result of said occurrence or event. All claims for adjustment in the Contract Price shall be determined by the ENGINEER in accordance with Paragraph 9.8A if the OWNER and the CONTRACTOR cannot otherwise agree on the amount involved. No claim for an adjustment in the Contract Price will be valid if not submitted in accordance with this Paragraph 11.1B.
- C. The value of any WORK covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined in one of the following ways:
 - 1. Where the WORK involved is covered by unit prices contained in the Contract Documents, by application of unit prices to the quantities of the items involved.
 - 2. By mutual acceptance of a lump sum, which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 11.4.
 - 3. On the basis of the cost of WORK (determined as provided in Paragraphs 11.3) plus a CONTRACTOR's fee for overhead and profit (determined as provided in Paragraph 11.4).

- 11.2 COSTS RELATING TO WEATHER. The CONTRACTOR shall have no claims against the OWNER for damages for any injury to WORK, materials, or equipment, resulting from the action of the elements. If, however, in the opinion of the ENGINEER, the CONTRACTOR has made all reasonable efforts to protect the materials, equipment and work, the CONTRACTOR may be granted a reasonable extension of Contract Time to make proper repairs, renewals, and replacements of the work, materials, or equipment.

SECTION 00700 - GENERAL CONDITIONS

11.3 COST OF WORK (BASED ON TIME AND MATERIALS)

- A. General. The term "cost of work" means the sum of all costs necessarily incurred and paid by the CONTRACTOR for labor, materials, and equipment in the proper performance of extra work. Except as otherwise may be agreed to in writing by the OWNER, such costs shall be in amounts no higher than those prevailing in the locality of the Project; shall include only the following items, and shall not include any of the costs itemized in Paragraph 11.5 EXCLUDED COSTS.
- B. Labor. The costs of labor will be the actual cost for wages prevailing for each craft or type of workers performing the extra work at the time the extra work is done, plus employer payments of payroll taxes, worker's compensation insurance, liability insurance, health and welfare, pension, vacation, apprenticeship funds, and other direct costs resulting from Federal, State or local laws, as well as assessments or benefits required by lawful collective bargaining agreements. Labor costs for equipment operators and helpers shall be paid only when such costs are not included in the invoice for equipment rental. The labor costs for forepersons shall be proportioned to all of their assigned work and only that applicable to extra work shall be paid. Non-direct labor costs including superintendence shall be considered part of the mark-up set out in paragraph 11.4.
- C. Materials. The cost of materials reported shall be at invoice or lowest current price at which materials are locally available and delivered to the job in the quantities involved, plus the cost of freight, delivery and storage, subject to the following:
 - 1. Trade discounts available to the purchaser shall be credited to the OWNER notwithstanding the fact that such discounts may not have been taken by the CONTRACTOR.
 - 2. For materials secured by other than a direct purchase and direct billing to the purchaser, the cost shall be deemed to be the price paid to the actual supplier as determined by the ENGINEER. Mark-up except for actual costs incurred in the handling of such materials will not be allowed.
 - 3. Payment for materials from sources owned wholly or in part by the purchaser shall not exceed the price paid by the purchaser for similar materials from said sources on extra work items or the current wholesale price for such materials delivered to the work site, whichever price is lower.
 - 4. If in the opinion of the ENGINEER the cost of material is excessive, or the CONTRACTOR does not furnish satisfactory evidence of the cost of such material, then the cost shall be deemed to be the lowest current wholesale price for the quantity concerned delivered to the work site less trade discount. The OWNER reserves the right to furnish materials for the extra work and no claim shall be allowed by the CONTRACTOR for costs and profit on such materials.
- D. Equipment. The CONTRACTOR will be paid for the use of equipment at the rental rate listed for such equipment specified in the Supplementary General Conditions. Such rental rate will be used to compute payments for equipment whether the equipment is under the CONTRACTOR's control through direct ownership, leasing, renting, or another method of acquisition. The rental rate to be applied for use of each item of equipment shall be the rate resulting in the least total cost to the OWNER for the total period of use. If it is deemed necessary by the CONTRACTOR to use equipment not listed in the publication specified in

SECTION 00700 - GENERAL CONDITIONS

the Supplementary General Conditions, an equitable rental rate for the equipment will be established by the ENGINEER. The CONTRACTOR may furnish cost data which might assist the ENGINEER in the establishment of the rental rate.

1. All equipment shall, in the opinion of the ENGINEER, be in good working condition and suitable for the purpose for which the equipment is to be used.
2. Before construction equipment is used on the extra work, the CONTRACTOR shall plainly stencil or stamp an identifying number thereon at a conspicuous location, and shall furnish to the ENGINEER, in duplicate, a description of the equipment and its identifying number.
3. Unless otherwise specified, manufacturer's ratings and manufacturer approved modifications shall be used to classify equipment for the determination of applicable rental rates. Equipment which has no direct power unit shall be powered by a unit of at least the minimum rating recommended by the manufacturer.
4. Individual pieces of equipment or tools having a replacement value of \$200 or less, whether or not consumed by use, shall be considered to be small tools and no payment will be made therefor.
5. Rental time will not be allowed while equipment is inoperative due to breakdowns.
6. Equipment Rental Rates. Unless otherwise agreed in writing, the CONTRACTOR will be paid for the use of equipment at the rental rate listed for such equipment specified in the current edition of the following reference publication: "Rental Rate Blue Book" as published by Dataquest (a company of the Dunn and Bradstreet Corporation), 1290 Ridder Park Drive, San Jose, CA 95131, telephone number (800) 227-8444.

E. Equipment on the Work Site. The rental time to be paid for equipment on the work site shall be the time the equipment is in productive operation on the extra work being performed and, in addition, shall include the time required to move the equipment to the location of the extra work and return it to the original location or to another location requiring no more time than that required to return it to its original location; except, that moving time will not be paid if the equipment is used on other than the extra work, even though located at the site of the extra work. Loading and transporting costs will be allowed, in lieu of moving time, when the equipment is moved by means other than its own power, except that no payment will be made for loading and transporting costs when the equipment is used at the site of the extra work on other than the extra work. The following shall be used in computing the rental time of equipment on the work site.

1. When hourly rates are listed, any part of an hour less than 30 minutes of operation shall be considered to be 1/2-hour of operation, and any part of an hour in excess of 30 minutes will be considered one hour of operation.
2. When daily rates are listed, any part of a day less than 4 hours operation shall be considered to be 1/2-day of operation. When owner-operated equipment is used to perform extra work to be paid for on a time and materials basis, the CONTRACTOR will be paid for the equipment and operator, as set forth in Paragraphs (3), (4), and (5), following.
3. Payment for the equipment will be made in accordance with the provisions in Paragraph 11.3D, herein.
4. Payment for the cost of labor and subsistence or travel allowance will be made at the rates paid by the CONTRACTOR to other workers operating similar equipment already on the work site, or in the absence of such labor, established by collective bargaining agreements for the type of worker and location of the extra work, whether

SECTION 00700 - GENERAL CONDITIONS

or not the operator is actually covered by such an agreement. A labor surcharge will be added to the cost of labor described herein in accordance with the provisions of Paragraph 11.3B, herein, which surcharge shall constitute full compensation for payments imposed by state and federal laws and all other payments made to or on behalf of workers other than actual wages.

5. To the direct cost of equipment rental and labor, computed as provided herein, will be added the allowances for equipment rental and labor as provided in Paragraph 11.4, herein.
- F. Specialty Work. Specialty work is defined as that work characterized by extraordinary complexity, sophistication, or innovation or a combination of the foregoing attributes which are unique to the construction industry. The following shall apply in making estimates for payment for specialty work:
1. Any bid item of WORK to be classified as Specialty Work shall be listed as such in the Supplementary General Conditions. Specialty work shall be performed by an entity especially skilled in the work to be performed. After validation of invoices and determination of market values by the ENGINEER, invoices for specialty work based upon the current fair market value thereof may be accepted without complete itemization of labor, material, and equipment rental costs.
 2. When the CONTRACTOR is required to perform work necessitating special fabrication or machining process in a fabrication or a machine shop facility away from the job site, the charges for that portion of the work performed at the off-site facility may, by agreement, be accepted as specialty work and accordingly, the invoices for the work may be accepted without detailed itemization.
 3. All invoices for specialty work will be adjusted by deducting all trade discounts offered or available, whether the discounts were taken or not. In lieu of the allowances for overhead and profit specified in Paragraph 11.4, herein, an allowance of 5 percent will be added to invoices for specialty work.
- G. Sureties. All work performed hereunder shall be subject to all of the provisions of the Contract Documents and the CONTRACTOR's sureties shall be bound with reference thereto as under the original Agreement. Copies of all amendments to surety bonds or supplemental surety bonds shall be submitted to the OWNER for review prior to the performance of any work hereunder.

11.4 CONTRACTOR'S FEE

- A. Extra work ordered on the basis of time and materials will be paid for at the actual necessary cost as determined by the ENGINEER, plus allowances for overhead and profit. The allowance for overhead and profit shall include full compensation for superintendence, bond and insurance premiums, taxes, field office expense, extended overhead, home office overhead, and all other items of expense or cost not included in the cost of labor, materials, or equipment provided for under Paragraph 11.3. The allowance for overhead and profit will be made in accordance with the following schedule:

SECTION 00700 - GENERAL CONDITIONS

Actual Overhead and Profit Allowance

Labor	15 percent
Materials	10 percent
Equipment	10 percent

To the sum of the costs and mark-ups provided for in this Article, one percent shall be added as compensation for bonding.

- B. It is understood that labor, materials, and equipment may be furnished by the CONTRACTOR or by the Subcontractor on behalf of the CONTRACTOR. When all or any part of the extra work is performed by a Subcontractor, the allowance specified herein shall be applied to the labor, materials, and equipment costs of the Subcontractor, to which the CONTRACTOR may add 5 percent of the Subcontractor's total cost for the extra work. Regardless of the number of hierarchical tiers of Subcontractors, the 5 percent increase above the Subcontractor's total cost which includes the allowances for overhead and profit specified herein may be applied one time only.

11.5 EXCLUDED COSTS. The term "Cost of the Work" shall not include any of the following:

- A. Payroll costs and other compensation of CONTRACTOR's officers, executives, principals (of partnership and sole proprietorships), general managers, engineers, estimators, attorneys' auditors, accountants, purchasing and contracting agents, expenditures, timekeepers, clerks and other personnel employed by CONTRACTOR whether at the site or in CONTRACTOR's principal or a branch office for general administration of the work, or not specifically covered by paragraph 11.3, all of which are to be considered administrative costs covered by the CONTRACTOR's fee.
- B. Expenses of CONTRACTOR's principal and branch offices other than CONTRACTOR's office at the site.
- C. Any part of CONTRACTOR's capital expenses, including interest on CONTRACTOR's capital employed for the WORK and charges against CONTRACTOR for delinquent payments.
- D. Cost of premiums for all bonds and for all insurance whether or not CONTRACTOR is required by the Contract Documents to purchase and maintain the same (except for the cost of premiums covered by paragraph 11.4 above).
- E. Costs due to the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of Defective WORK, disposal of materials or equipment wrongly supplied and making good any damage to property.
- F. Other overhead or general expense costs of any kind and the cost of any item not specifically and expressly included in paragraph 11.4.

SECTION 00700 - GENERAL CONDITIONS

ARTICLE 12 CHANGE OF CONTRACT TIME

12.1 GENERAL

- A. The Contract Time may only be changed by a Change Order. Any claim for an extension of the Contract Time (or Milestones) shall be based on written notice delivered by the CONTRACTOR to the ENGINEER promptly (but in no event later than 30 days) after the occurrence of the event giving rise to the claim and stating the general nature of the claim. Notice of the extent of the claim with supporting data shall be delivered within 60 days after such occurrence (unless the ENGINEER allows an additional period of time to ascertain more accurate data in support of the claim) and shall be accompanied by the CONTRACTOR's written statement that the adjustment claimed is the entire adjustment to which the CONTRACTOR has reason to believe it is entitled as a result of the occurrence of said event. All claims for adjustment in the Contract Time shall be determined by the ENGINEER in accordance with Paragraph 9.8 if the OWNER and the CONTRACTOR cannot otherwise agree. No claim for an adjustment in the Contract Time will be valid if not submitted in accordance with the requirements of this Paragraph 12.1A. An increase in Contract Time does not mean that the Contractor is due an increase in Contract Price. Only compensable time extensions will result in an increase in Contract Price.
- B. All time limits stated in the Contract Documents are of the essence of the Agreement.
- C. Where CONTRACTOR is prevented from completing any part of the WORK within the Contract Times (or Milestones) due to delay beyond the control of CONTRACTOR, the Contract Times (or Milestones) will be extended in an amount equal to the time lost on the critical path of the project due to such delay if a claim is made therefor as provided in paragraph 12.1. Delays beyond the control of CONTRACTOR shall include, but not be limited to, acts or neglect by OWNER, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, unprecedented weather conditions or acts of God. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of CONTRACTOR.
- D. Where CONTRACTOR is prevented from completing any part of the WORK within the Contract Times (or Milestones) due to delay beyond the control of both OWNER and CONTRACTOR, an extension of the Contract Times (or Milestones) in an amount equal to the time lost on the critical path of the project due to such delay shall be CONTRACTOR's sole and exclusive remedy for such delay. In no event shall the OWNER be liable to CONTRACTOR, any Subcontractor, any Supplier, or any other person or organization, or to any surety for or employee or agent of any of them, for damages arising out of or resulting from (i) delays caused by or within the control of CONTRACTOR, or (ii) delays beyond the control of both parties including but not limited to fires, floods, epidemics abnormal weather conditions, acts of God or acts or neglect by utility owners or other contractors performing other work as contemplated by Article 7.

- 12.2 EXTENSIONS OF TIME FOR DELAY DUE TO WEATHER. Contract Time may be extended by the ENGINEER because of delays in completion of the WORK due to unusually severe weather, provided that the CONTRACTOR shall, within 10 days of the beginning of any such delay, notify the ENGINEER in writing of the cause of delay and request an extension of Contract Time. The ENGINEER will ascertain the facts and the extent of the delay and extend the time for completing the

SECTION 00700 - GENERAL CONDITIONS

work when, in the ENGINEER's judgment, the findings of fact justify such an extension. Unprecedented, abnormal, or unusually severe weather will be defined as an event, or events, with a greater than 50-year recurrence interval, as determined by the National Weather Service, or equivalent State or Federal agency

ARTICLE 13 WARRANTY AND GUARANTEE; TESTS AND INSPECTIONS; CORRECTION, REMOVAL, OR ACCEPTANCE OF DEFECTIVE WORK

- 13.1 **WARRANTY AND GUARANTEE.** The CONTRACTOR warrants and guarantees to the OWNER and the ENGINEER that all work will be in accordance with the Contract Documents and will not be defective. Prompt notice of defects known to the OWNER or ENGINEER shall be given to the CONTRACTOR. All defective work, whether or not in place, may be rejected, corrected, or accepted as provided in this Article 13.
- 13.2 **ACCESS TO WORK.** OWNER, ENGINEER, their Consultants, sub-consultants, other representatives and personnel of OWNER, independent testing laboratories and governmental agencies with jurisdictional interests will have access to the WORK at reasonable times for their observation, inspecting and testing. CONTRACTOR shall provide them proper and safe conditions for such access and advise them of CONTRACTOR's site safety procedures and programs so that they may comply therewith as applicable.
- 13.3 **TESTS AND INSPECTIONS**
- A. The CONTRACTOR shall give the ENGINEER timely notice of readiness of the WORK for all required inspections, tests, or approvals, and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.
 - B. If Laws or Regulations of any public body having jurisdiction other than the OWNER require any WORK to specifically be inspected, tested, or approved, the CONTRACTOR shall pay all costs in connection therewith. The CONTRACTOR shall also be responsible for and shall pay all costs in connection with any inspection or testing required in connection with the OWNER's or the ENGINEER's acceptance of a Supplier of materials or equipment proposed as a substitution or (or-equal) to be incorporated in the WORK, or of materials or equipment submitted for review prior to the CONTRACTOR's purchase thereof for incorporation in the WORK. The cost of all inspections, tests, and approvals in addition to the above which are required by the Contract Documents shall be paid by the OWNER (unless otherwise specified).
 - C. The ENGINEER will make, or have made, such inspections and tests as the ENGINEER deems necessary to see that the WORK is being accomplished in accordance with the requirements of the Contract Documents. Unless otherwise specified in the Supplementary General Conditions, the cost of such inspection and testing will be borne by the OWNER. In the event such inspections or tests reveal non-compliance with the requirements of the Contract Documents, the CONTRACTOR shall bear the cost of corrective measures deemed necessary by the ENGINEER, as well as the cost of subsequent reinspection and retesting. Neither observations by the ENGINEER nor inspections, tests, or approvals by others shall relieve the CONTRACTOR from the CONTRACTOR's obligation to perform the WORK in accordance with the Contract Documents.

SECTION 00700 - GENERAL CONDITIONS

- D. All inspections, tests, or approvals other than those required by Laws or Regulations of any public body having jurisdiction shall be performed by organizations acceptable to the ENGINEER and the CONTRACTOR.
 - E. If any WORK (including the work of others) that is to be inspected, tested, or approved is covered without written concurrence of the ENGINEER, it must, if requested by the ENGINEER, be uncovered for observation. Such uncovering shall be at the CONTRACTOR's expense unless the CONTRACTOR has given the ENGINEER timely notice of the CONTRACTOR's intention to perform such test or to cover the same and the ENGINEER has not acted with reasonable promptness in response to such notice.
 - F. If any WORK is covered contrary to the written request of the ENGINEER, it must, if requested by the ENGINEER, be uncovered for the ENGINEER's observation and recovered at the CONTRACTOR's expense.
 - G. If the ENGINEER considers it necessary or advisable that covered WORK be observed by the ENGINEER or inspected or tested by others, the CONTRACTOR, at the ENGINEER's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as the ENGINEER may require, that portion of the WORK in question, furnishing all necessary labor, material, and equipment. If it is found that such WORK is defective, the CONTRACTOR shall bear all direct, indirect, and consequential costs and damages of such uncovering, exposure, observation, inspection, and testing and of satisfactory reconstruction, including but not limited to fees and charges of engineers, attorneys, and other professionals. However, if such WORK is not found to be defective, the CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, and reconstruction; and, if the parties are unable to agree as to the amount or extent thereof, the CONTRACTOR may make a claim therefor as provided in Articles 11 and 12.
- 13.4 OWNER MAY STOP THE WORK. If the WORK is defective, or the CONTRACTOR fails to perform work in such a way that the completed WORK will conform to the Contract Documents, the OWNER may order the CONTRACTOR to stop the WORK, or any portion thereof, until the cause for such order has been eliminated; however, this right of the OWNER to stop the WORK shall not give rise to any duty on the part of the OWNER to exercise this right for the benefit of the CONTRACTOR or any other party.
- 13.5 CORRECTION OR REMOVAL OF DEFECTIVE WORK. If required by the ENGINEER, the CONTRACTOR shall promptly, either correct all defective work, whether or not fabricated, installed, or completed, or, if the WORK has been rejected by the ENGINEER, remove it from the site and replace it with non-defective work. The CONTRACTOR shall bear all direct, indirect and consequential costs and damages of such correction or removal, including but not limited to fees and charges of engineers, attorneys, and other professionals made necessary thereby.

SECTION 00700 - GENERAL CONDITIONS

13.6 ONE YEAR CORRECTION PERIOD

- A. If within one year after the date of Substantial Completion or such longer period of time as may be prescribed by Laws or Regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any work is found to be defective, the CONTRACTOR shall promptly, without cost to the OWNER and in accordance with OWNER's written notification, (i) correct such Defective WORK, or, if it has been rejected by the OWNER, remove it from the site and replace it with non-defective work, and (ii) satisfactorily correct or remove and replace any damage to other work of others resulting therefrom. If the CONTRACTOR does not promptly comply with such notification, or in an emergency where delay would cause serious risk of loss or damage, the OWNER may have the Defective WORK corrected or the rejected WORK removed and replaced, and all direct, indirect, and consequential costs and damages of such removal and replacement including but not limited to fees and charges of engineers, attorneys and other professionals will be paid by the CONTRACTOR.
- B. Where Defective WORK (and damage to other WORK resulting therefrom) has been corrected, removed or replaced under this paragraph 13.6, the correction period hereunder with respect to such WORK will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

13.7 ACCEPTANCE OF DEFECTIVE WORK. If, instead of requiring correction or removal and replacement of defective work, the OWNER prefers to accept the WORK, the OWNER may do so. The CONTRACTOR shall bear all direct, indirect, and consequential costs attributable to the OWNER's evaluation of and determination to accept such defective work. If any such acceptance occurs prior to final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the WORK, and the OWNER shall be entitled to an appropriate decrease in the Contract Price.

ARTICLE 14 PAYMENTS TO CONTRACTOR AND COMPLETION

14.1 SCHEDULE OF VALUES (LUMP SUM PRICE BREAKDOWN). The schedule of values or lump sum price breakdown established as provided in the General Requirements shall serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to the ENGINEER.

14.2 UNIT PRICE BID SCHEDULE. Progress payments on account of Unit Price work will be based on the number of units completed.

14.3 APPLICATION FOR PROGRESS PAYMENT

- A. Unless otherwise prescribed by law, on the 25th of each month, the CONTRACTOR shall submit to the ENGINEER for review, an Application for Payment filled out and signed by the CONTRACTOR covering the WORK completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents.
- B. The Application for Payment shall identify, as a sub-total, the amount of the CONTRACTOR'S Total Earnings to Date, plus the Value of Materials Stored at the Site which have not yet been incorporated in the WORK, and less a deductive adjustment for materials installed which were not previously incorporated in the WORK, but for which

SECTION 00700 - GENERAL CONDITIONS

payment was allowed under the provisions for payment for Materials Stored at the Site, but not yet incorporated in the WORK.

- C. The Net Payment Due the CONTRACTOR shall be the above-mentioned subtotal from which shall be deducted the total amount of all previous payments made to the CONTRACTOR. Progress payments will be paid in full in accordance with Article 14 of the General Conditions until 90% of the Contract Price has been paid. The remaining 10% of the Contract Price amount may be withheld until:

1. final inspection has been made;
2. completion of the Project; and
3. acceptance of the Project by the OWNER.

- D. The Value of Materials Stored at the Site shall be an amount equal to the specified percent of the value of such materials as set forth in the Supplementary General Conditions. Said amount shall be based upon the value of all acceptable materials and equipment not incorporated in the WORK but delivered and suitably stored at the site or at another location agreed to in writing; provided, each such individual item has a value of more than \$5,000.00 and will become a permanent part of the WORK. The Application for Payment shall also be accompanied by an invoice (including shipping), a certification that the materials meet the applicable contract specifications, and any evidence required by the OWNER that the materials and equipment are covered by appropriate property insurance and other arrangements to protect the OWNER's interest therein, all of which will be satisfactory to the OWNER. Payment for materials will not constitute final acceptance. It shall be the CONTRACTOR's responsibility to protect the material from damage, theft, loss, or peril while in storage. Unless otherwise prescribed by law, the Value of Materials Stored at the Site shall be paid at the invoice amount up to a maximum of 85% of the Contract Price for those items.

- 14.4 CONTRACTOR'S WARRANTY OF TITLE. The CONTRACTOR warrants and guarantees that title to all work, materials, and equipment covered by an Application for Payment, whether incorporated in the WORK or not, will pass to the OWNER no later than the time of payment free and clear of all liens.

14.5 REVIEW OF APPLICATIONS FOR PROGRESS PAYMENT

- A. The ENGINEER will, within 7 days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to the OWNER, or return the Application to the CONTRACTOR indicating in writing the ENGINEER's reasons for refusing to recommend payment. In the later case, the CONTRACTOR may make the necessary corrections and resubmit the Application. If the ENGINEER still disagrees with a portion of the Application, it will submit the Application recommending the undisputed portion of the Application to the OWNER for payment and provide reasons for recommending non-payment of the disputed amount. Thirty days after presentation of the Application for Payment with the ENGINEER's recommendation, the amount recommended will (subject to the provisions of Paragraph 14.5B) become due and when due will be paid by the OWNER to the CONTRACTOR.
- B. The OWNER may refuse to make payment of the full amount recommended by the ENGINEER because claims have been made against the OWNER on account of the

SECTION 00700 - GENERAL CONDITIONS

CONTRACTOR's performance of the WORK or Liens have been filed in connection with the WORK or there are other items entitling the OWNER to a credit against the amount recommended, but the OWNER must give the CONTRACTOR written notice within 7 days (with a copy to the ENGINEER) stating the reasons for such action.

14.6 PARTIAL UTILIZATION

- A. The OWNER shall have the right to utilize or place into service any item of equipment or other usable portion of the WORK prior to completion of the WORK. Whenever the OWNER plans to exercise said right, the CONTRACTOR will be notified in writing by the OWNER, identifying the specific portion or portions of the WORK to be so utilized or otherwise placed into service.
- B. It shall be understood by the CONTRACTOR that until such written notification is issued, all responsibility for care and maintenance of all of the WORK shall be borne by the CONTRACTOR. Upon issuance of said written notice of partial utilization, the OWNER will accept responsibility for the protection and maintenance of all such items or portions of the WORK described in the written notice.
- C. The CONTRACTOR shall retain full responsibility for satisfactory completion of the WORK, regardless of whether a portion thereof has been partially utilized by the OWNER and the CONTRACTOR's one year correction period shall commence only after the date of Substantial Completion for the WORK.

14.7 **SUBSTANTIAL COMPLETION.** When the CONTRACTOR considers the WORK ready for its intended use the CONTRACTOR shall notify the OWNER and the ENGINEER in writing that the WORK is substantially complete. The CONTRACTOR will attach to this request a list of all work items that remain to be completed and a request that the ENGINEER prepare a Notice of Completion. Within a reasonable time thereafter, the OWNER, the CONTRACTOR, and the ENGINEER shall make an inspection of the WORK to determine the status of completion. If the ENGINEER does not consider the WORK substantially complete, or the list of remaining work items to be comprehensive, the ENGINEER will notify the CONTRACTOR in writing giving the reasons therefor. If the ENGINEER considers the WORK substantially complete, the ENGINEER will prepare and deliver to the OWNER, for its execution and recording, the Notice of Completion signed by the ENGINEER and CONTRACTOR, which shall fix the date of Substantial Completion.

14.8 **FINAL APPLICATION FOR PAYMENT.** After the CONTRACTOR has completed all of the remaining work items referred to in Paragraph 14.7 and delivered all maintenance and operating instructions, schedules, guarantees, Bonds, certificates of inspection, record as-built documents (as provided in the General Requirements) and other documents, all as required by the Contract Documents, and after the ENGINEER has indicated that the WORK is acceptable, the CONTRACTOR may make application for final payment following the procedure for progress payments. The final Application for Payment shall be accompanied by all documentation called for in the Contract Documents, together with complete and legally effective releases or waivers (satisfactory to the OWNER) of all liens arising out of or filed in connection with the WORK.

SECTION 00700 - GENERAL CONDITIONS

14.9 FINAL PAYMENT AND ACCEPTANCE

- A. If, on the basis of the ENGINEER's observation of the WORK during construction and final inspection, and the ENGINEER's review of the final Application for Payment and accompanying documentation, all as required by the Contract Documents, the ENGINEER is satisfied that the WORK has been completed and the CONTRACTOR's other obligations under the Contract Documents have been fulfilled, the ENGINEER will, within 14 days after receipt of the final Application for Payment, indicate in writing the ENGINEER's recommendation of payment and present the Application to the OWNER for payment.
- B. After acceptance of the WORK by the OWNER's governing body, the OWNER will make final payment to the CONTRACTOR of the amount remaining after deducting all prior payments and all amounts to be kept or retained under the provisions of the Contract Documents, including the following items:
 - 1. Liquidated damages, as applicable.
 - 2. Two times the value of outstanding items of correction work or punch list items yet uncompleted or uncorrected, as applicable. All such work shall be completed or corrected to the satisfaction of the OWNER within the time stated on the Notice of Completion, otherwise the CONTRACTOR does hereby waive any and all claims to all monies withheld by the OWNER to cover the value of all such uncompleted or uncorrected items.

14.10 RELEASE OF RETAINAGE AND OTHER DEDUCTIONS

- A. After executing the necessary documents to initiate the lien period, and not more than 45 days thereafter (based on a 30-day lien filing period and 15-day processing time), the OWNER will release to the CONTRACTOR the retainage funds withheld pursuant to the Agreement, less any deductions to cover pending claims against the OWNER pursuant to Paragraph 14.5B.
- B. After filing of the necessary documents to initiate the lien period, the CONTRACTOR shall have 30 days to complete any outstanding items of correction work remaining to be completed or corrected as listed on a final punch list made a part of the Notice of Completion. Upon expiration of the 45 days, referred to in Paragraph 14.10A, the amounts withheld pursuant to the provisions of Paragraph 14.9B herein, for all remaining work items will be returned to the CONTRACTOR; provided, that said work has been completed or corrected to the satisfaction of the OWNER within said 30 days. Otherwise, the CONTRACTOR does hereby waive any and all claims for all monies withheld by the OWNER under the Contract to cover 2 times the value of such remaining uncompleted or uncorrected items.

- 14.11 CONTRACTOR'S CONTINUING OBLIGATION. The CONTRACTOR's obligation to perform and complete the WORK in accordance with the Contract Documents shall be absolute. Neither recommendation of any progress or final payment by the ENGINEER, nor the issuance of a Notice of Completion, nor any payment by the OWNER to the CONTRACTOR under the Contract Documents, nor any use or occupancy of the WORK or any part thereof by the OWNER, nor any act of acceptance by the OWNER nor any failure to do so, nor any review of a Shop Drawing or sample submittal, will constitute an acceptance of work not in accordance with the Contract Documents or a

SECTION 00700 - GENERAL CONDITIONS

release of the CONTRACTOR's obligation to perform the WORK in accordance with the Contract Documents.

- 14.12 FINAL PAYMENT TERMINATES LIABILITY OF OWNER. Final payment is defined as the last progress payment made to the CONTRACTOR for earned funds, less monies withheld as applicable, pursuant to Paragraph 14.10A. The acceptance by the CONTRACTOR of the final payment referred to in Paragraph 14.9 herein, shall be a release of the OWNER and its agents from all claims of liability to the CONTRACTOR for anything done or furnished for, or relating to, the WORK or for any act of neglect of the OWNER or of any person relating to or affecting the WORK, except demands against the OWNER for the remainder, if any, of the amounts kept or retained under the provisions of Paragraph 14.9 herein; and excepting pending, unresolved claims filed prior to the date of the Notice of Completion.

ARTICLE 15 SUSPENSION OF WORK AND TERMINATION

- 15.1 SUSPENSION OF WORK BY OWNER. The OWNER, acting through the ENGINEER, may, at any time and without cause, suspend the WORK or any portion thereof for a period of not more than 90 days by notice in writing to the CONTRACTOR. The CONTRACTOR shall resume the WORK on receipt from the ENGINEER of a notice of resumption of work. The CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension if the CONTRACTOR makes an approved claim therefor as provided in Articles 11 and 12.
- 15.2 TERMINATION OF AGREEMENT BY OWNER (CONTRACTOR DEFAULT)
- A. In the event of default by the CONTRACTOR, the OWNER may give 10 days written notice to the CONTRACTOR of OWNER's intent to terminate the Agreement and provide the CONTRACTOR an opportunity to remedy the conditions constituting the default. It shall be considered a default by the CONTRACTOR whenever CONTRACTOR shall: (1) declare bankruptcy, become insolvent, or assign its assets for the benefit of its creditors; (2) fail to provide materials or quality of work meeting the requirements of the Contract Documents; (3) disregard or violate provisions of the Contract Documents or ENGINEER's instructions; (4) fail to prosecute the WORK according to the approved progress schedule; or, (5) fail to provide a qualified superintendent, competent workers, or materials or equipment meeting the requirements of the Contract Documents. If the CONTRACTOR fails to remedy the conditions constituting default within the time allowed, the OWNER may then issue the Notice of Termination.
- B. In the event the Agreement is terminated in accordance with Paragraph 15.2A, herein, the OWNER may take possession of the WORK and may complete the WORK by whatever method or means the OWNER may select. The cost of completing the WORK shall be deducted from the balance which would have been due the CONTRACTOR had the Agreement not been terminated and the WORK completed in accordance with the Contract Documents. If such cost exceeds the balance which would have been due, the CONTRACTOR shall pay the excess amount to the OWNER. If such cost is less than the balance which would have been due, the CONTRACTOR shall not have claim to the difference.
- 15.3 TERMINATION OF AGREEMENT BY OWNER (FOR CONVENIENCE). The OWNER may terminate the Agreement at any time if it is found that reasons beyond the control of either the

SECTION 00700 - GENERAL CONDITIONS

OWNER or CONTRACTOR make it impossible or against the OWNER's interests to complete the WORK. In such a case, the CONTRACTOR shall have no claims against the OWNER except: (1) for the value of work performed up to the date the Agreement is terminated; and, (2) for the cost of materials and equipment on hand, in transit, or on definite commitment, as of the date the Agreement is terminated which would be needed in the WORK and which meet the requirements of the Contract Documents. The value of work performed and the cost of materials and equipment delivered to the site, as mentioned above, shall be determined by the ENGINEER in accordance with the procedure prescribed for the making of the final application for payment and payment under Paragraphs 14.8 and 14.9.

- 15.4 **TERMINATION OF AGREEMENT BY CONTRACTOR.** The CONTRACTOR may terminate the Agreement upon 10 days written notice to the OWNER, whenever: 1) the WORK has been suspended under the provisions of Paragraph 15.1, herein, for more than 90 consecutive days through no fault or negligence of the CONTRACTOR, and notice to resume work or to terminate the Agreement has not been received from the OWNER within this time period; or, 2) the OWNER should fail to pay the CONTRACTOR any monies due him in accordance with the terms of the Contract Documents and within 60 days after presentation to the OWNER by the CONTRACTOR of a request therefor, unless within said 10-day period the OWNER shall have remedied the condition upon which the payment delay was based. In the event of such termination, the CONTRACTOR shall have no claims against the OWNER except for those claims specifically enumerated in Paragraph 15.3, herein, and as determined in accordance with the requirements of said paragraph.

ARTICLE 16 MISCELLANEOUS

- 16.1 **GIVING NOTICE.** Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.
- 16.2 **RIGHTS IN AND USE OF MATERIALS FOUND ON THE WORK**
- A. The CONTRACTOR may use on the Project, with ENGINEER's approval, such stone, gravel, sand, or other material determined suitable by the ENGINEER, as may be found in the excavation. The CONTRACTOR will be paid for the excavation of such material at the corresponding contract unit price. No additional payment will be made for utilizing the material from excavation as borrow, or select borrow.
 - B. The CONTRACTOR shall replace, at its own expense, with other acceptable material, all of that portion of the excavated material so removed and used which was needed for use on the project. No charge for the materials so used will be made against the CONTRACTOR except that the CONTRACTOR shall be responsible for payment of any royalties required.
 - C. The CONTRACTOR shall not excavate or remove any material from within the Project location which is not within the grading limits, as indicated by the slope and grade lines, without written authorization from the ENGINEER.
 - D. In the event the CONTRACTOR has processed materials from OWNER-furnished sources in excess of the quantities required for performance of this contract, including any waste material produced as a by-product, the CBJ may retain possession of such materials without

SECTION 00700 - GENERAL CONDITIONS

obligation to reimburse the CONTRACTOR for the cost of their production. When such materials are in a stockpile, the ENGINEER may require: That it remain in stockpile; the CONTRACTOR level such stockpile(s); or that the CONTRACTOR remove such materials and restore the premises to a satisfactory condition at the CONTRACTOR's expense. This provision shall not preclude the CBJ from arranging with the CONTRACTOR to produce material over and above the contract needs, payment for which shall be by written agreement between the CBJ and the CONTRACTOR.

- E. Unless otherwise provided, the material from any existing old structure may be used temporarily by the CONTRACTOR in the erection of the new structure. Such material shall not be cut or otherwise damaged except with the approval of the ENGINEER.
- 16.3 RIGHT TO AUDIT. If the CONTRACTOR submits a claim to the OWNER for additional compensation, the OWNER shall have the right, as a condition to considering the claim, and as a basis for evaluation of the claim, and until the claim has been settled, to audit the CONTRACTOR's books to the extent they are relevant. This right shall include the right to examine books, records, documents, and other evidence and accounting procedures and practices, sufficient to discover and verify all direct and indirect costs of whatever nature claimed to have been incurred or anticipated to be incurred and for which the claim has been submitted. The right to audit shall include the right to inspect the CONTRACTOR's plants, or such parts thereof, as may be or have been engaged in the performance of the WORK. The CONTRACTOR further agrees that the right to audit encompasses all subcontracts and is binding upon Subcontractors. The rights to examine and inspect herein provided for shall be exercisable through such representatives as the OWNER deems desirable during the CONTRACTOR's normal business hours at the office of the CONTRACTOR. The CONTRACTOR shall make available to the OWNER for auditing, all relevant accounting records and documents, and other financial data, and upon request, shall submit true copies of requested records to the OWNER.
- 16.4 ARCHEOLOGICAL OR HISTORICAL DISCOVERIES. When the CONTRACTOR's operation encounters prehistoric artifacts, burials, remains of dwelling sites, paleontological remains, such as shell heaps, land or sea mammal bones or tusks, or other items of historical significance, the CONTRACTOR shall cease operations immediately and notify the ENGINEER. No artifacts or specimens shall be further disturbed or removed from the ground and no further operations shall be performed at the site until so directed. Should the ENGINEER order suspension of the CONTRACTOR's operations in order to protect an archaeological or historical finding, or order the CONTRACTOR to perform extra work, such order(s) shall be covered by an appropriate contract change document.
- 16.5 CONSTRUCTION OVER OR ADJACENT TO NAVIGABLE WATERS. All work over, on, or adjacent to navigable waters shall be so conducted that free navigation of the waterways will not be interfered with and the existing navigable depths will not be impaired, except as allowed by permit issued the U.S. Coast Guard and/or the U.S. Army Corps of Engineers, as applicable.
- 16.6 GRATUITY AND CONFLICT OF INTEREST. The CONTRACTOR agrees to not extend any loan, gratuity or gift of money of any form whatsoever to any employee or elected official of the OWNER, nor will the CONTRACTOR rent or purchase any equipment or materials from any employee or elected official of the OWNER, or to the best of the CONTRACTOR's knowledge, from any agent of any employee or elected official of the OWNER. Before final payment, the CONTRACTOR shall execute and furnish the OWNER an affidavit certifying that the CONTRACTOR has complied with the above provisions of the contract.

SECTION 00700 - GENERAL CONDITIONS

16.7 SUITS OF LAW CONCERNING THE WORK

- A. Should a suit of law be entered into, either by the CONTRACTOR (or the CONTRACTOR's surety) against the OWNER, or by the OWNER against the CONTRACTOR (or the CONTRACTOR's surety), the suit of law shall be tried in the First Judicial District of Alaska.
- B. If one of the questions at issue is the satisfactory performance of the work by the CONTRACTOR and should the appropriate court of law judge the work of the CONTRACTOR to be unsatisfactory, then the CONTRACTOR (or the CONTRACTOR's surety) shall reimburse the OWNER for all legal and all other expenses (as may be allowed and set by the court) incurred by the OWNER because of the suit of the law and, further, it is agreed that the OWNER may deduct such expense from any sum or sums then, or any that become due the CONTRACTOR under the contract.

16.8 CERTIFIED PAYROLLS

- A. All CONTRACTORS or Subcontractor who perform work on a public construction contract for the OWNER shall file a certified payroll with the Alaska Department of Labor before Friday of each week that covers the preceding week (Section 14-2-4 ACLA 1949; am Section 4 ch 142 SLA 1972).
- B. In lieu of submitting the State payroll form, the CONTRACTOR's standard payroll form may be submitted, provided it contains the information required by AS 36.05.040 and a statement that the CONTRACTOR is complying with AS 36.10.010.
- C. A contractor or subcontractor, who performs work on public construction in the State, as defined by AS 36.95.010(3), shall pay not less than the current prevailing rate of wages as issued by the Alaska Department of Labor before the end of the pay period. (AS 36.05.010).

16.9 PREVAILING WAGE RATES

- A. Wage rates for Laborers and Mechanics on Public Contracts, AS 36.05.070. The CONTRACTOR, or Subcontractors, shall pay all employees unconditionally and not less than once a week. Wages may not be less than those stated in Paragraph 16.8C, regardless of the contractual relationship between the CONTRACTOR or Subcontractors and laborers, mechanics, or field surveyors. The scale of wages to be paid shall be posted by the CONTRACTOR in a prominent, easily accessible place at the site of the WORK.
- B. Failure to Pay Agreed Wages, AS 36.05.080. If it is found that a laborer, mechanic, or field surveyor employed by the CONTRACTOR or Subcontractor has been, or is being, paid a rate or wages less than the established rate, the OWNER may, by written notice, terminate the CONTRACTOR or Subcontractors right to proceed with the work. The OWNER may prosecute the work to completion by contract or otherwise, and the CONTRACTOR and sureties will be held liable to the OWNER for excess costs for completing the WORK. (Section 2 ch 52 SLA 1959).
- C. Listing Contractor's Who Violate Contracts, AS 36.05.090. In addition, a list giving the names of persons who have disregarded the rights of their employees shall be distributed to

SECTION 00700 - GENERAL CONDITIONS

all departments of State government and all political subdivisions. No person appearing on this list, and no firm, corporation, partnership or association in which the person has an interest, may work as a CONTRACTOR or Subcontractor on a public construction contract for the State, or a political subdivision of the state, until three years after the date of publication of the list. (Section 3 ch 52 SLA 1959; am Section 9 ch 142 SLA).

16.10 EMPLOYMENT REFERENCE. Workers employed in the execution of the contract by the CONTRACTOR or by any Subcontractor under this contract shall not be required or permitted to labor more than 8 hours a day or 40 hours per week in violation of the provisions of the Alaska Wage and Hour Act, Section 23.10.060.

16.11 COST REDUCTION INCENTIVE

- A. At any time within 45 days after the date of the Notice of Award, the CONTRACTOR may submit to the ENGINEER in writing, proposals for modifying the plans, specifications, or other requirements of this contract for the sole purpose of reducing the total cost of construction. The cost reduction proposal shall not impair in any manner the essential functions or characteristics of the project, including but not limited to, service life, economy of operation, ease of maintenance, desired appearance or design and safety standards.
- B. The cost reduction proposal shall contain the following information:
 - 1. Description of both the existing contract requirements for performing the WORK and the proposed changes.
 - 2. An itemization of the contract requirements that must be changed if the proposal is adopted.
 - 3. A detailed estimate of the time required and the cost of performing the WORK under both the existing contract and the proposed change.
 - 4. A statement of the date by which the CONTRACTOR must receive the decision from the OWNER on the cost reduction proposal.
 - 5. The contract items of WORK effected by the proposed changes including any quantity variations.
 - 6. A description and estimate of costs the OWNER may incur in implementing the proposed changes, such as test and evaluation and operating and support costs.
 - 7. A prediction of any effects the proposed change would have on future operations and maintenance costs to the OWNER.
- C. The provisions of this section shall not be construed to require the OWNER to consider any cost reduction proposal which may be submitted; nor will the OWNER be liable to the CONTRACTOR for failure to accept or act upon any cost reduction proposal submitted, or for delays to the work attributable to the consideration or implementation of any such proposal.
- D. If a cost reduction proposal is similar to a change in the plans or specifications for the project under consideration by the OWNER at the time the proposal is submitted, the OWNER will not accept such proposal and reserves the right to make such changes without compensation to the CONTRACTOR under the provisions of this section.
- E. The CONTRACTOR shall continue to perform the work in accordance with the requirements of the contract until an executed Change Order incorporating the cost reduction

SECTION 00700 - GENERAL CONDITIONS

proposal has been issued. If any executed Change Order has not been issued by the date upon which the CONTRACTOR's cost reduction proposal specifies that a decision should be made by the OWNER, in writing, the cost reduction proposal shall be considered rejected.

- F. The OWNER, shall be the sole judge of the acceptability of a cost reduction proposal and of the estimated net savings in Contract Time and construction costs resulting from the adoption of all or any part of such proposal. Should the CONTRACTOR disagree with OWNER's decision on the cost reduction proposal, there is no further consideration. The OWNER reserves the right to make final determination.
- G. If the CONTRACTOR's cost reduction proposal is accepted in whole or in part, such acceptance will be made by a contract Change Order, which specifically states that the change is executed pursuant to this cost reduction proposal section. Such Change Order shall incorporate the changes in the plans and specifications which are necessary to permit the cost reduction proposal or such part of it as has been accepted to be put into effect and shall include any conditions upon which the OWNER's approval is based, if such approval is conditional. The Change Order shall also describe the estimated net savings in the cost of performing the work attributable to the cost reduction proposal, and shall further provide that the contract cost be adjusted by crediting the OWNER with the estimated net savings amount.
- H. Acceptance of the cost reduction proposal and performance of the work does not extend the time of completion of the contract, unless specifically provided in the Change Order authorizing the use of the submitted proposal. Should the adoption of the cost reduction proposal result in a Contract Time savings, the total Contract Time shall be reduced by an amount equal to the time savings realized.
- I. The amount specified to the CONTRACTOR in the Change Order accepted in the cost reduction proposal shall constitute full compensation for the performance of WORK. No claims for additional costs as a result of the changes specified in the cost reduction proposal shall be allowed.
- J. The OWNER reserves the right to adopt and utilize any approved cost reduction proposal for general use on any contract administered when it is determined suitable for such application. Cost reduction proposals identical, similar, or previously submitted will not be accepted for consideration if acceptance and compensation has previously been approved. The OWNER reserves the right to use all or part of any cost reduction proposal without obligation or compensation of any kind to the CONTRACTOR.
- K. The CONTRACTOR shall bear the costs, if any, to revise all bonds and insurance requirements for the project, to include the cost reduction WORK.

END OF SECTION

SECTION 00800 - SUPPLEMENTARY GENERAL CONDITIONS

GENERAL. These Supplementary General Conditions make additions, deletions, or revisions to the General Conditions as indicated herein. All provisions which are not so added, deleted, or revised remain in full force and effect. Terms used in these Supplementary General Conditions which are defined in the General Conditions have the meanings assigned to them in the General Conditions.

SGC 1 DEFINITIONS. *Remove* the definition for Contract Documents and *replace* with the following:

Contract Documents – The Table of Contents, Notice Inviting Bids, Instructions to Bidders, Bid Forms (including the Bid, Bid Schedule(s), Subcontractor Report, Bid Bond, and all required certificates and affidavits), Agreement, Performance Bond, Payment Bond, General Conditions, Supplementary General Conditions, Alaska Labor Standards, Reporting, and Prevailing Wage Rate Determination, Special Provisions, Standard Specifications, Technical Specifications, Drawings, Permits, and all Addenda, and Change Orders executed pursuant to the provisions of the Contract Documents.

SGC 2.2 COPIES OF DOCUMENTS. *Add* the following:

The OWNER shall furnish to the CONTRACTOR two (2) hard copies of the Contract Documents, which will include bound reduced Drawings, and electronic files of the documents in pdf format. Additional copies of contract documents are the responsibility of the contractor.

SGC 3.2 ORDER OF PRECEDENCE OF CONTRACT DOCUMENTS. *Remove* No. 12. Technical Specifications and No. 13. Drawings, and *add* the following:

12. Special Provisions Section
13. Standard Specifications for Civil Engineering Projects and Subdivision Improvements
December 2003 Edition with current Errata Sheets.
14. Drawings.

SGC 4.2 PHYSICAL CONDITIONS - SUBSURFACE AND EXISTING STRUCTURES. *Add* the following:

- C. In the preparation of the Contract Documents, the Engineer of Record has relied upon field measurements and visual inspection of the existing structures and surface conditions.

Add the following SGC 4.6:

SGC - 4.6 USE OF THE CBJ/STATE LEMON CREEK GRAVEL PIT. *Add* the following.

The CBJ/State Lemon Creek Gravel Pit is not available for this Project.

Add the following SGC 4.7:

SGC 4.7 USE OF CITY/STATE STABLER'S POINT ROCK QUARRY. *Add* the following:

The CBJ/State Stabler's Point Rock Quarry is not available for this Project.

SGC 5.1 PERFORMANCE, PAYMENT, AND OTHER BONDS. The Contractor shall furnish Performance and Payment Bonds in the amount of 100% of the Bid.

SECTION 00800 - SUPPLEMENTARY GENERAL CONDITIONS

SGC 5.2 INSURANCE AMOUNTS. The limits of liability for the insurance required by Paragraph 5.2 of the General Conditions shall provide coverage for not less than the following amounts or greater where required by Laws and Regulations. The CONTRACTOR must provide certification of proper insurance coverage and amendatory endorsements or copies of the applicable policy language affecting coverage required in this agreement to the City and Borough of Juneau. All certificates of insurance supplied to the OWNER shall state that the OWNER is named as **“Additional Insured for any and all work performed for the City & Borough of Juneau” for the Commercial General Liability policy and any other policies, if required in this Section.**

Delete paragraph C and *Replace* with the following paragraph C:

- C. The CONTRACTOR shall furnish the OWNER with certificates showing the type, amount, class of operations covered, effective dates and dates of expiration of policies. Failure of CBJ to demand such certificate or other evidence of full compliance with these insurance requirements or failure of CBJ to identify a deficiency from evidence that is provided shall not be construed as a waiver of the obligation of the Contractor to maintain the insurance required by this contract. The coverage afforded will not be cancelled, reduced in coverage, or renewal refused until at least 30 days' prior written notice has been given to the OWNER by the CONTRACTOR. **All such insurance required herein (except for Workers' Compensation and Employer's Liability) shall name the OWNER, its Consultants and subconsultants and their officers, directors, agents, and employees as "additional insureds" under the policies.**

The CONTRACTOR shall purchase and maintain the following insurance:

1. Workers' Compensation and Employer's Liability. This insurance shall protect the CONTRACTOR against all claims under applicable state workers' compensation laws. The CONTRACTOR shall also be protected against claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a Workers' Compensation law. The CONTRACTOR shall require each Subcontractor similarly to provide Workers' Compensation Insurance for all of the latter's employees to be engaged in such work unless such employees are covered by the protection afforded by the CONTRACTOR's Workers' Compensation Insurance. In case any class of employees is not protected, under the Workers' Compensation Statute, the CONTRACTOR shall provide and shall cause each subcontractor to provide adequate employer's liability insurance for the protection of such of its employees as are not otherwise protected. **The CONTRACTOR grants a waiver of any right to subrogation against the OWNER by virtue of the payment of any loss under such insurance.** This provision applies regardless of whether or not the OWNER has received a waiver of subrogation endorsement from the insurer.

Workers' Compensation: (under Paragraph 5.2C.1 of the General Conditions) as in accordance with AS 23.30.045:

- a. State: Statutory
- b. Applicable Federal (e.g., Longshore): Statutory

Note: If the WORK called for in the Contract Documents involves work in or on any navigable waters, the CONTRACTOR shall provide Workers' Compensation coverage which shall include coverage under the Longshore and Harbor Workers' Compensation Act, the Jones Act, and any other coverage required under Federal or State laws pertaining to workers in or on navigable waters.

SECTION 00800 - SUPPLEMENTARY GENERAL CONDITIONS

a. Employers Liability

Bodily Injury by Accident:	\$1,000,000.00 Each Accident
Bodily Injury by Disease:	\$1,000,000.00 Each Employee
Bodily Injury by Disease:	\$1,000,000.00 Policy Limit

1. CONTRACTOR agrees to waive all rights of subrogation against the OWNER for WORK performed under contract.
2. If CONTRACTOR directly utilizes labor outside of the State of Alaska in the prosecution of the WORK, "Other States" endorsement shall be required as a condition of the contract.
2. Commercial General Liability (CGL), including products and completed operations, property damage, bodily injury and personal and advertising injury, with limits no less than \$1,000,000 each occurrence and \$2,000,000 aggregate. (under Paragraph 5.2C.2 of the General Conditions) **This insurance policy is to contain, or be endorsed to contain, additional insured status for the CBJ, its officers, officials, employees, and volunteers.** If Additional insured status is provided in the form of an endorsement to the Contractor's insurance, the endorsement shall be at least as broad as ISO Form CG 20 10 11 85 or **both** CG 20 10, CG 20 26, CG 20 33, or CG 20 38; **and** CG 20 37 forms if later revisions used).
3. Commercial Automobile Liability: (under Paragraph 5.2C.3 of the General Conditions) including Owned, Hired, and Non-Owned Vehicles:

Combined Single Limit, Bodily Injury and Property Damage \$1,000,000.00

This insurance policy is to contain, or be endorsed to contain, additional insured status for the CBJ, its officers, officials, employees, and volunteers The CONTRACTOR shall require each Subcontractor similarly to provide Commercial Automobile Liability Insurance for all of the latter's employees to be engaged in such WORK unless such employees are covered by the protection afforded by the CONTRACTOR's Commercial Automobile Liability Insurance.

Add the following paragraphs:

- C. Builder's Risk: CONTRACTOR is not required to obtain a Builder's Risk insurance policy for this project.
- D. All Subcontractors are required to secure and maintain the insurance coverages listed above, unless otherwise noted.
- E. If the CONTRACTOR maintains higher limits than the minimums shown above, the OWNER requires and shall be entitled to coverage for the higher limits maintained by the CONTRACTOR. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the OWNER.
- F. Policies shall also specify insurance provided by CONTRACTOR will be considered primary and not contributory to any other insurance available to the OWNER.
- G. Should any of the policies described above be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

SECTION 00800 - SUPPLEMENTARY GENERAL CONDITIONS

SGC 6.5 CONCERNING SUBCONTRACTORS, SUPPLIERS, AND OTHERS. *Add* the following:

B. The CONTRACTOR shall perform not less than 40% of the WORK with its own forces (i.e., without subcontracting). The 40% requirement shall be understood to mean that the CONTRACTOR shall perform, with its own organization, WORK amounting to at least 40% of the original contract amount. The 40% requirement will be calculated based upon the total of the subcontract amounts submitted for Contract Award, and any other information requested by the OWNER from the apparent low Bidder.

SGC 6.5 CONCERNING SUBCONTRACTORS, SUPPLIERS, AND OTHERS, *Add* the following paragraph:

C. CONTRACTOR must pay Subcontractors and/or Suppliers within 30 days of receiving payment from the OWNER, if that payment was made for Work performed by the Subcontractor and/or materials received. Failure to pay Subcontractors within 30 days of receiving payment from which Subcontractor and/or Supplier is to be paid may result in the OWNER initiating debarment proceedings as prescribed in the City and Borough of Juneau Purchasing Code. *The 30 day City and Borough of Juneau requirement does not supersede AS 36.90.210.*

SGC 6.6 PERMITS, *Add* the following paragraph:

D. Contractor is responsible for obtaining a Hot Works permit from the CBJ Permit Center, if performing work which requires such a permit. Work requiring a Hot Works Permit includes but is not limited to the following: cutting, welding, Thermit welding, brazing, soldering, grinding, thermal spraying, thawing pipe, installation of torch-applied roof systems or any other similar activity.

SGC 14.3 APPLICATION FOR PROGRESS PAYMENT. Paragraph D.

D. The Value of Materials Stored at the site shall be an amount equal to 85%.

SGC 14.9 FINAL PAYMENT AND ACCEPTANCE. *Add* the following paragraph:

C. Prior to the final payment the CONTRACTOR shall contact the Alaska Department of Labor and Workforce Development (ADOL) and provide the OWNER with clearance from the ADOL for the CONTRACTOR and all Subcontractors that have worked on the Project. This clearance shall indicate that all Employment Security Taxes have been paid. A sample form for this purpose is at the end of this section. The CONTRACTOR shall also submit a "NOTICE OF COMPLETION OF PUBLIC WORKS" signed by ADOL.

SGC 16.8 CERTIFIED PAYROLLS. *Change* paragraph A. to read:

A. All CONTRACTORS or Subcontractors who perform work on a public construction contract for the OWNER shall file a certified payroll with Alaska Department of Labor. See Section 00830 - Alaska Labor Standards, Reporting, and Prevailing Wage Rate Determination.

Add the following SGC 16.12.

SGC 16.12 EQUAL EMPLOYMENT OPPORTUNITY (EEO)

The CONTRACTOR may not discriminate against any employee or applicant for employment because of race, religion, color, national origin, age, disability, sex, marital status, changes in marital status, pregnancy or parenthood. The CONTRACTOR shall post a notice setting out the provisions of this

SECTION 00800 - SUPPLEMENTARY GENERAL CONDITIONS

paragraph in a conspicuous place available to employees and applicants for employment.

The CONTRACTOR and each Subcontractor shall state in all solicitations and advertisements for employees to work on this Project, that it is an Equal Opportunity Employer and that all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, age, disability, sex, marital status, changes in marital status, pregnancy or parenthood.

The CONTRACTOR shall include the provisions of this EEO article in every contract relating to this Project and shall require the inclusion of these provisions in every agreement entered into for this Project, so that those provisions will be binding upon the CONTRACTOR and each Subcontractor.

Add the following SGC 17:

SGC 17 GENERAL INFORMATION. This Project is currently funded by the City and Borough of Juneau, Alaska.

END OF SECTION

**SECTION 00830 - ALASKA LABOR STANDARDS, REPORTING, AND
PREVAILING WAGE RATE DETERMINATION**

State of Alaska, Department of Labor, Laborers' and Mechanics' Minimum Rates of Pay, AS 36.05.010 and AS 36.05.050, Wage and Hour Administration Pamphlet No. 600, the latest edition published by the State of Alaska, Department of Labor inclusive, is provided in its entirety in SECTION 00830 – APPENDIX A.

The rates that are in effect 10 days prior to the final date for submission of bids are the rates that will apply to this project. These rates will apply for 24 calendar months from the date the project is awarded to a prime contractor. At the end of the initial 24-month period, the latest wage rates issued by the Alaska Department of Labor shall become effective for the next 24-month period. This process repeats itself until the project is completed.

The CONTRACTOR is responsible for contacting the Alaska Department of Labor to determine compliance with current regulations.

Correspondence regarding Title 36 requirements may be submitted to ADOL electronically or paper copies can be submitted by mail. To submit Title 36 documents and certified payrolls electronically, go to <https://myalaska.state.ak.us/home/app>.

The CONTRACTOR and each Subcontractor shall submit Certified Payrolls to the Matthew Sill at matthew.sill@juneau.org upon request. If the Port Engineer does not receive the requested Certified Payrolls within five (5) working days, the Port Engineer will request the Certified Payrolls from ADOL. The CONTRACTOR shall be responsible for all costs charged by ADOL for delivery of the requested Certified Payrolls, including those costs for Subcontractors.

Within 10 Days of "Notice of Award/Notice to Proceed" make a list of all Subcontractors. Include their name, address, phone, estimated subcontract amount, and estimated start and finish dates. Send this list to the Wage and Hour Section (contact information below).

Certified Payrolls must be submitted every two weeks. Before the second Friday, each CONTRACTOR and Subcontractor must file Certified Payrolls with Statements of Compliance for the previous two weeks. Indicate **"Start"** on your first payroll, and **"Final"** on your last payroll for this Project.

As part of the **final payment request package**, CONTRACTOR must submit a "NOTICE OF COMPLETION OF PUBLIC WORKS" form signed by ADOL personnel.

Contact Information:

Wage and Hour Section
State of Alaska
Department of Labor and Workforce Development
Labor Standards and Safety Division
Wage and Hour Administration and
P.O. Box 11149
Juneau, AK 99811-1149
907-465-4842
<http://labor.state.ak.us/lss/home.htm>

Matthew Sill, Port Engineer
City and Borough of Juneau
Docks and Harbors
155 Heritage Way
Juneau, AK 99801
(907) 586-0292
Matthew.Sill@juneau.gov

MINIMUM RATES OF PAY

For Laborers and Mechanics

Effective Sept. 1, 2025

Issue 51

PAMPHLET No. 600

Title 36. Public Contracts
AS 36.05

DEPARTMENT OF LABOR
AND WORKFORCE DEVELOPMENT
Wage and Hour



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THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

Department of Labor and Workforce Development

Office of the Commissioner

Post Office Box 111149
Juneau, Alaska 99811
Main: 907.465.2700
fax: 907.465-2784

September 1, 2025

TO ALL CONTRACTING AGENCIES:

At the Alaska Department of Labor and Workforce Development our goal is putting Alaskans to work. This pamphlet is designed to help contractors awarded public construction contracts understand the most significant laws of the State of Alaska pertaining to prevailing wages.

This pamphlet identifies current prevailing wage rates for public construction contracts (any construction projects awarded for the State of Alaska or its political subdivisions, such as local governments and certain non-profit organizations). Because these rates may change in a subsequent determination, please be sure you are using the appropriate rates. The rates published in this edition become effective September 1, 2025.

The prevailing wage rates contained in this pamphlet are applicable to public construction projects with a final bid date of September 11, 2025, or later. As the law now provides, these rates will remain stable during the life of a contract or for 24 calendar months, whichever is shorter. **On the date the prime contract is awarded, the 24-month period begins.** Upon expiration of this period, the latest wage rates issued by the department shall become effective for a subsequent 24-month period or until the original contract is completed, whichever occurs first. This process shall be repeated until the original contract is completed.

The term "original contract" means the signed contract that resulted from the original bid and any amendments, including changes of work scope, additions, extensions, change orders, and other instruments agreed to by the parties that have not been subject to subsequent open bid procedures. If a higher federal rate is required due to partial federal funding or other federal participation, the higher rate must be paid.

Effective July 1, 2025, Alaska Statutes 23.10.066–23.10.069 (Alaska's Paid Sick Leave Requirements) take effect. Accordingly, for all projects bid after this date, contractors must comply with the paid sick leave provisions. When calculating the regular rate for sick time, contractors are required to include prevailing wages, specifically the base hourly rate (BHR), for all hours worked on site in accordance with the applicable pamphlet.

For additional copies of this pamphlet go to: <http://labor.state.ak.us/lss/pamp600.htm> and for questions regarding prevailing wage or employment preference requirements, please contact the nearest Wage and Hour office. These offices are listed on Page x.

Sincerely,

A handwritten signature in blue ink that reads "Catherine Muñoz".

Catherine Muñoz
Commissioner

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Table of Contents

Excerpts from Alaska Law

Sec. 36.05.005. Applicability.....	iv
Sec. 36.05.010. Wage rates on public construction.	iv
Sec. 36.05.040. Filing schedule of employees, wages paid and other information	iv
Sec. 36.05.045. Notice of work and completion; withholding of payment	iv
Sec. 36.05.060. Penalty for violation of this chapter	v
Sec. 36.05.070. Wage rates in specifications and contracts for public works	v
Sec. 36.05.080. Failure to pay agreed wages.....	v
Sec. 36.05.090. Payment of wages from withheld payments and listing contractors who violate contracts	v
Sec. 36.05.900. Definition.. ..	vi

Excerpts from Alaska Administrative Code

8 AAC 30.051. Purpose	vi
8 AAC 30.052. Board and lodging; remote sites	vi
8 AAC 30.054. Per diem instead of board and lodging	vi
8 AAC 30.056. Alternative arrangement.....	vii
8 AAC 30.900. General definitions (selected excerpts).....	vii

Additional Information

Per Diem	vii
Laborer Classification Clarification.....	viii
Apprentice Rates.....	viii
Fringe Benefit Plans.....	viii
Paid Sick Leave	ix
Special Prevailing Wage Rate Determination.....	ix
Alaska Employment Preference Information.....	ix
Labor Standards and Safety Notice Requests	x
Debarment List	x

Wage Rates Pages 1-27

On the cover: Travis Jones fixes a tug luggage tractor, photo by Kim Unzicker

Note to Readers: The statutes and administrative regulations listed in this publication were taken from the official codes, as of the effective date of the publication. However, there may be errors or omissions that have not been identified and changes that occurred after the publication was printed. This publication is intended as an informational guide only and is not intended to serve as a precise statement of the statutes and regulations of the State of Alaska. To be certain of current laws and regulations, please refer to the official codes.

EXCERPTS FROM ALASKA LAW

Sec. 36.05.005. Applicability.

This chapter applies only to a public construction contract that exceeds \$25,000.

Sec. 36.05.010. Wage rates on public construction.

A contractor or subcontractor who performs work on a public construction contract in the state shall pay not less than the current prevailing rate of wages for work of a similar nature in the region in which the work is done. The current prevailing rate of wages is that contained in the latest determination of prevailing rate of wages issued by the Department of Labor and Workforce Development at least 10 days before the final date for submission of bids for the contract. The rate shall remain in effect for the life of the contract or for 24 calendar months, whichever is shorter. At the end of the initial 24-month period, if new wage determinations have been issued by the department, the latest wage determination shall become effective for the next 24-month period or until the contract is completed, whichever occurs first. This process shall be repeated until the contract is completed.

Sec. 36.05.040. Filing schedule of employees, wages paid, and other information.

All contractors or subcontractors who perform work on a public construction contract for the state or for a political subdivision of the state shall, before the Friday of every second week, file with the Department of Labor and Workforce Development a sworn affidavit for the previous reporting period, setting out in detail the number of persons employed, wages paid, job classification of each employee, hours worked each day and week, and other information on a form provided by the Department of Labor and Workforce Development.

Sec. 36.05.045. Notice of work and completion; withholding of payment.

- (a) Before commencing work on a public construction contract, the person entering into the contract with a contracting agency shall designate a primary contractor for purposes of this section. Before work commences, the primary contractor shall file a notice of work with the Department of Labor and Workforce Development. The notice of work must list work to be performed under the public construction contract by each contractor who will perform any portion of work on the contract and the contract price being paid to each contractor. The primary contractor shall pay all filing fees for each contractor performing work on the contract, including a filing fee based on the contract price being paid for work performed by the primary contractor's employees. The filing fee payable shall be the sum of all fees calculated for each contractor. The filing fee shall be one percent of each contractor's contract price. The total filing fee payable by the primary contractor under this subsection may not exceed \$5,000. In this subsection, "contractor" means an employer who is using employees to perform work on the public construction contract under the contract or a subcontract.
- (b) Upon completion of all work on the public construction contract, the primary contractor shall file with the Department of Labor and Workforce Development a notice of completion together with payment of any additional filing fees owed due to increased contract amounts. Within 30 days after the department's receipt of the primary contractor's notice of completion, the department shall inform the contracting agency of the amount, if any, to be withheld from the final payment.
- (c) A contracting agency
 - (1) may release final payment of a public construction contract to the extent that the agency has received verification from the Department of Labor and Workforce Development that
 - (A) the primary contractor has complied with (a) and (b) of this section;
 - (B) the Department of Labor and Workforce Development is not conducting an investigation under this title; and
 - (C) the Department of Labor and Workforce Development has not issued a notice of a violation of this chapter to the primary contractor or any other contractors working on the public construction contract; and

- (2) shall withhold from the final payment an amount sufficient to pay the department's estimate of what may be needed to compensate the employees of any contractors under investigation on this construction contract, and any unpaid filing fees.
- (d) The notice and filing fee required under (a) of this section may be filed after work has begun if
 - (1) The public construction contract is for work undertaken in immediate response to an emergency; and
 - (2) The notice and fees are filed not later than 14 days after the work has begun.
- (e) A false statement made on a notice required by this section is punishable under AS 11.56.210.

Sec. 36.05.060. Penalty for violation of this chapter.

A contractor who violates this chapter is guilty of a misdemeanor and upon conviction is punishable by a fine of not less than \$100 nor more than \$1,000, or by imprisonment for not less than 10 days nor more than 90 days, or by both. Each day a violation exists constitutes a separate offense.

Sec. 36.05.070. Wage rates in specifications and contracts for public works.

- (a) The advertised specifications for a public construction contract that requires or involves the employment of mechanics, laborers, or field surveyors must contain a provision stating the minimum wages to be paid various classes of laborers, mechanics, or field surveyors and that the rate of wages shall be adjusted to the wage rate under AS 36.05.010.
- (b) Repealed by §17 ch 142 SLA 1972.
- (c) A public construction contract under (a) of this section must contain provisions that
 - (1) the contractor or subcontractors of the contractor shall pay all employees unconditionally and not less than once a week;
 - (2) wages may not be less than those stated in the advertised specifications, regardless of the contractual relationship between the contractor or subcontractors and laborers, mechanics, or field surveyors;
 - (3) the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work;
 - (4) the state or a political subdivision shall withhold so much of the accrued payments as is necessary to pay to laborers, mechanics, or field surveyors employed by the contractor or subcontractors the difference between
 - (A) the rates of wages required by the contract to be paid laborers, mechanics, or field surveyors on the work; and
 - (B) the rates of wages in fact received by laborers, mechanics, or field surveyors.

Sec. 36.05.080. Failure to pay agreed wages.

Every contract within the scope of AS 36.05.070 shall contain a provision that if it is found that a laborer, mechanic, or field surveyor employed by the contractor or subcontractor has been or is being paid a rate of wages less than the rate of wages required by the contract to be paid, the state or its political subdivision may, by written notice to the contractor, terminate the contractor's right to proceed with the work or the part of the work for which there is a failure to pay the required wages and to prosecute the work to completion by contract or otherwise, and the contractor and the contractor's sureties are liable to the state or its political subdivision for excess costs for completing the work.

Sec. 36.05.090. Payment of wages from withheld payments and listing contractors who violate contracts.

- (a) The state disbursing officer in the case of a state public construction contract and the local fiscal officer in the case of a political subdivision public construction contract shall pay directly to laborers, mechanics, or field surveyors from accrued payments withheld under the terms of the contract the wages due laborers, mechanics, or field surveyors under AS 36.05.070.
- (b) The state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees. A person appearing on this list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or

subcontractor on a public construction contract for the state or a political subdivision of the state until three years after the date of publication of the list. If the accrued payments withheld under the contract are insufficient to reimburse all the laborers, mechanics, or field surveyors with respect to whom there has been a failure to pay the wages required under AS 36.05.070, the laborers, mechanics, or field surveyors have the right of action or intervention or both against the contractor and the contractor's sureties conferred by law upon persons furnishing labor or materials, and in the proceedings it is not a defense that the laborers, mechanics, or field surveyors accepted or agreed to accept less than the required rate of wages or voluntarily made refunds.

Sec. 36.05.900. Definition.

In this chapter, "contracting agency" means the state or a political subdivision of the state that has entered into a public construction contract with a contractor.

EXCERPTS FROM ALASKA ADMINISTRATIVE CODE

*****Notice:** Regulations relating to board and lodging and per diem went into effect on November 25, 2018. The new regulations are excerpted here***

8 AAC 30.051. Purpose. The purpose of 8 AAC 30.052 – 8 AAC 30.056 is to ensure that wages paid to laborers, mechanics, and field surveyors do not fall below the prevailing rate of pay.

8 AAC 30.052. Board and lodging; remote sites. (a) A contractor on a public construction project located 65 or more road miles from the international airport closest to the project area in either Fairbanks, Juneau, or Anchorage, or that is inaccessible by road in a two-wheel drive vehicle, shall provide adequate board and lodging to each laborer, mechanic, or field surveyor while the person is employed on the project. If commercial lodging facilities are not available, the contractor shall provide temporary lodging facilities. Lodging facilities must comply with all applicable state and federal laws. For a highway project, the location of the project is measured from the midpoint of the project.

(b) A contractor is not required to provide board and lodging:

(1) to a laborer, mechanic, or field surveyor who is a domiciled resident of the project area; or

(2) on a laborer, mechanic, or field surveyor's scheduled days off, when the person can reasonably travel between the project and the person's permanent residence; for the purposes of this paragraph, "scheduled day off" means a day in which a person does not perform work on-site, is not required to remain at or near the job location for the benefit of the contractor, and is informed of the day off at least seven days before the day off.

(c) Upon a contractor's written request, the commissioner may waive the requirements of (a) of this section where:

(1) the project is inaccessible by road in a two-wheel drive vehicle, but the laborer, mechanic, or field surveyor can reasonably travel between the project and the person's permanent residence within one hour; or

(2) a laborer, mechanic, or field surveyor is not a domiciled resident of the project area, but has established permanent residence, with the intent to remain indefinitely, within 65 road miles of the project, or for a highway project, the mid-point of the project.

8 AAC 30.054. Per diem instead of board and lodging. (a) A contractor may pay a laborer, mechanic, or field surveyor per diem instead of providing board and lodging, when the following conditions are met:

(1) the department determines that per diem instead of board and lodging is an established practice for the work classification; the department shall publish and periodically revise its determinations in the pamphlet *Laborers and Mechanics Minimum Rates of Pay*;

(2) the contractor pays each laborer, mechanic, or field surveyor the appropriate per diem rate as published and periodically revised in the pamphlet *Laborers and Mechanics Minimum Rates of Pay*; and

(3) the contractor pays the per diem to each laborer, mechanic, or field surveyor on the same day that wages are paid.

(b) A contractor may not pay per diem instead of board and lodging on a highway project located

- (1) west of Livengood on the Elliot Highway, AK-2;
- (2) on the Dalton Highway, AK-11;
- (3) north of milepost 20 on the Taylor Highway, AK-5;
- (4) east of Chicken on the Top of the World Highway; or
- (5) south of Tetlin Junction to the Alaska-Canada border on the Alaska Highway, AK-2.

8 AAC 30.056. Alternative arrangement. Upon a contractor's written request, the commissioner may approve an alternative board and lodging or per diem arrangement, provided

- (1) the arrangement does not reduce the laborer, mechanic, or field surveyor's wages below the prevailing wage rate; and
- (2) the laborer, mechanic, or field surveyor voluntarily enters into and signs the written arrangement; a labor organization representing laborers, mechanics, or field surveyors may enter into the written agreement on their behalf.

8 AAC 30.900. General definitions (selected excerpts only):

In this chapter and in AS 36

(22) "domiciled resident" means a person living within 65 road miles of a public construction project, or in the case of a highway project, the mid-point of the project, for at least 12 consecutive months prior to the award of the public construction project;

(23) "employed on the project" means the time period from the date the laborer, mechanic, or field surveyor first reports on-site to the project through the final date the person reports on-site to the project.

ADDITIONAL INFORMATION

PER DIEM

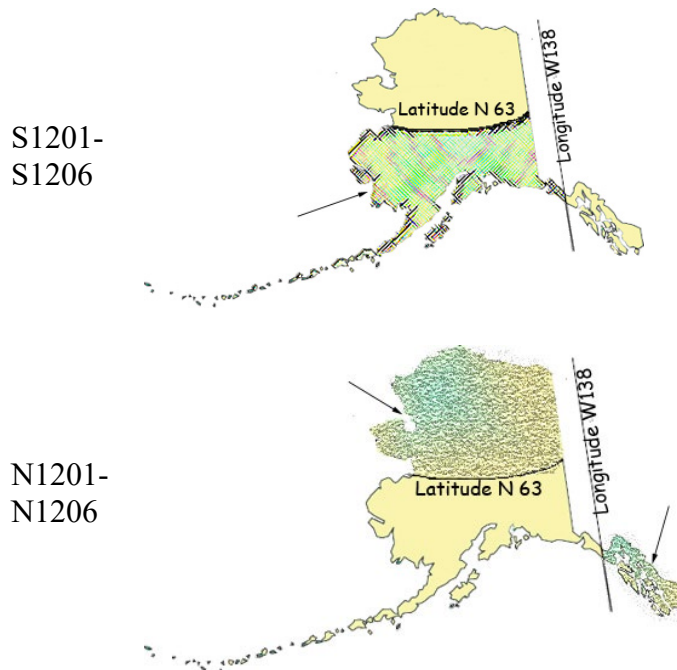
Notice: New regulations relating to board and lodging and per diem went into effect on November 25, 2018. The regulations provide a comprehensive set of requirements for the provision of board and lodging or per diem for workers on remote projects. Please refer to Alaska Administrative Code 8 AAC Chapter 30 and read the chapter carefully.

The Alaska Department of Labor and Workforce Development has determined that per diem is an established work practice for certain work classifications. These classifications are indicated throughout the Pamphlet by an asterisk (*) under the classification title. If all of the conditions of 8 AAC 30.054 are met, an employer may pay workers in these classifications per diem instead of providing board and lodging on a remote project.

Per Diem Rate: As of May 1, 2019, the minimum per diem rate is \$100.00 per day, or part thereof, the worker is employed on the project. In the event that a contractor provides lodging facilities, but no meals, the department will accept a payment of \$48 per day for meals to meet the per diem requirements.

LABORER CLASSIFICATION CLARIFICATION

The laborer rates categorized in class code S1201-S1206 apply in one area of Alaska; the area that is south of N63 latitude and west of W138 Longitude. The laborer rates categorized in class code N1201-N1206 apply in two areas of Alaska; the Alaska areas north of N63 latitude and east of W138 longitude. The following graphic representations should assist with clarifying the applicable wage rate categories:



APPRENTICE RATES

Apprentice rates at less than the minimum prevailing rates may be paid to apprentices according to an apprentice program which has been registered and approved by the Commissioner of the Alaska Department of Labor and Workforce Development in writing or according to a bona fide apprenticeship program registered with the U.S. Department of Labor, Office of Apprenticeship Training. **Any employee listed on a payroll at an apprentice wage rate who is not registered as above shall be paid the journeyman prevailing minimum wage in that work classification.** Wage rates are based on prevailing crew makeup practices in Alaska and apply to work performed regardless of either the quality of the work performed by the employee or the titles or classifications which may be assigned to individual employees.

FRINGE BENEFIT PLANS

Contractors/subcontractors may compensate fringe benefits to their employees in any one of three methods. The fringe benefits may be paid into a union trust fund, into an approved benefit plan, or paid directly on the paycheck as gross wages.

Where fringe benefits are paid into approved plans, funds, or programs including union trust funds, the payments must be contributed at least monthly. If contractors submit their own payroll forms and are paying fringe benefits into approved plans, funds, or programs, the employer's certification must include, in addition to those requirements of 8 AAC 30.020(c), a statement that fringe benefit payments have been or will be paid at least monthly. Contractors who pay fringe benefits to a plan must ensure the plan is one approved by the Internal Revenue Service and that the plan meets the requirements of 8 AAC 30.025 (eff. 3/2/08) in order for payments to be credited toward the prevailing wage obligation.

PAID SICK LEAVE

Effective July 1, 2025, the provisions of Alaska Statutes 23.10.066–23.10.069, relating to paid sick leave, shall apply. For all projects bid after July 1, 2025, contractors are required to comply with these statutory provisions. The regular rate of pay for sick leave must be calculated to include prevailing wages, defined as the base hourly rate (BHR), for all hours worked on site in accordance with the applicable pamphlet.

SPECIAL PREVAILING WAGE RATE DETERMINATION

Special prevailing wage rate determinations may be requested for special projects or a special worker classification if the work to be performed does not conform to traditional public construction for which a prevailing wage rate has been established under 8 AAC 30.050(a) of this section. Requests for special wage rate determinations must be in writing and filed with the Commissioner at least 30 days before the award of the contract. An applicant for a special wage rate determination shall have the responsibility to support the necessity for the special rate. An application for a special wage rate determination filed under this section must contain:

- (1) a specification of the contract or project on which the special rates will apply and a description of the work to be performed;
- (2) a brief narrative explaining why special wage rates are necessary;
- (3) the job class or classes involved;
- (4) the special wage rates the applicant is requesting, including survey or other relevant wage data to support the requested rates;
- (5) the approximate number of employees who would be affected; and
- (6) any other information which might be helpful in determining if special wage rates are appropriate.

Requests made pursuant to the above should be addressed to:

Director
Alaska Department of Labor and Workforce Development
Labor Standards and Safety Division
Wage and Hour
P.O. Box 111149
Juneau, AK 99811-1149
-or-
Email: statewide.wagehour@alaska.gov

EMPLOYMENT PREFERENCE INFORMATION

In October 2019, the Alaska Attorney General issued a formal opinion stating that the Alaska Statutes 36.10.150 of the State's 90% Employment Preference law, also known as the Alaska Resident Hire law, violates both the U.S. and Alaska Constitutions. As a result, the state has stopped all enforcement activity. A copy of the Attorney General opinion is found here:

http://law.alaska.gov/pdf/opinions/opinions_2019/19-005_AK-hire.pdf

Alaska Department of Labor and Workforce Development
Labor Standards and Safety Division
Wage and Hour
Web site: <http://labor.state.ak.us/lss/pamp600.htm>

Anchorage

1251 Muldoon Road, Suite 113
Anchorage, Alaska 99504-2098
Phone: (907) 269-4900

Email:
statewide.wagehour@alaska.gov

Juneau

PO Box 111149
Juneau, Alaska 99811
Phone: (907) 465-4842

Email:
statewide.wagehour@alaska.gov

Fairbanks

Regional State Office Building
675 7th Ave., Station J-1
Fairbanks, Alaska 99701-4593
Phone: (907) 451-2886

Email:
statewide.wagehour@alaska.gov

LABOR STANDARDS AND SAFETY NOTICE REQUESTS

If you would like to receive Wage and Hour or Mechanical Inspection **regulation notices** or **publications information**, they are available via electronic mail, by signing up in the GovDelivery System, <https://public.govdelivery.com/accounts/AKDOL/subscriber/new> and selecting topics *LSS – Wage and Hour – Forms and Publications*, *LSS – Mechanical Inspection Regulations*, or *LSS – Wage and Hour Regulations*.

Publications are also available online at <http://labor.alaska.gov/lss/home.htm>

DEBARMENT LIST

AS 36.05.090(b) states that “the state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees.”

A person appearing on the following debarment list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or subcontractor on a public construction contract for the state or a political subdivision of the state for three years from the date of debarment.

Company Name

Debarment Expires

No companies are currently debarred.

Laborers' & Mechanics' Minimum Rates of Pay

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Boilermakers

*See per diem note on last page

A0101	Boilermaker (journeyman)	54.08	8.57	18.72	2.50	VAC 4.25	SAF 0.34	88.46
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Bricklayers & Allied Craftworkers

*See per diem note on last page

A0201	Blocklayer, including:	52.77		9.91	0.66	L&M 0.20	ANU 2.45	65.99
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Bricklayer
Marble Mason
Refractory Worker (Firebrick, Plastic, Castable, and Gunitite Refractory Applications)
Stone Mason
Terrazzo Worker
Tile Setter

A0202	Pointer/Caulker/Cleaner (PCC)	52.77		9.91	0.66	L&M 0.20	ANU 2.45	65.99
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Caulker
Cleaner
Tuck Pointer

A0203	Finisher	40.91		10.03	0.54	L&M 0.20	ANU 2.45	54.13
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Marble Finisher
Terrazzo Finisher
Tile Finisher

A0204	Torginal Applicator	40.91		10.03	0.54	L&M 0.20	ANU 2.45	54.13
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Carpenters, Region I (North of 63 latitude)

*See per diem note on last page

N0301	Carpenter (journeyman)	50.79	8.75	16.80	0.77	L&M 0.10	SAF	77.21
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Lather/Drywall/Acoustical

Carpenters, Region II (South of N63 latitude)

*See per diem note on last page

S0301	Carpenter (journeyman)	50.79	8.75	17.34	0.77	L&M 0.10	SAF	77.75
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Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Carpenters, Region II (South of N63 latitude)								
*See per diem note on last page								
S0301	Carpenter (journeyman)	50.79	8.75	17.34	0.77		L&M 0.10	SAF 77.75
	Lather/Drywall/Acoustical							
Cement Masons								
*See per diem note on last page								
A0401	Group I, including:	49.28	8.80	11.80	1.68		L&M 0.10	71.66
	Application of Sealing Compound							
	Application of Underlayment							
	Building, General							
	Cement Finisher							
	Cement Mason (journeyman)							
	Concrete							
	Concrete Paving							
	Concrete Polishing							
	Concrete Repair							
	Curb & Gutter, Sidewalk							
	Curing of All Concrete							
	General Concrete Pour Tender							
	Grouting & Caulking of Tilt-Up Panels							
	Grouting of All Plates							
	Patching Concrete							
	Screed Pin Setter							
	Screeder or Rodder							
	Spackling/Skim Coating							
A0402	Group II, including:	49.28	8.80	11.80	1.68		L&M 0.10	71.66
	Form Setter							
A0403	Group III, including:	49.28	8.80	11.80	1.68		L&M 0.10	71.66
	Concrete Saw Cutter Operator (All Control Joints and Self-powered)							
	Curb & Gutter Machine							
	Floor Grinder							
	Pneumatic Power Tools							
	Power Chipping & Bushing							
	Sand Blasting Architectural Finish							
	Screed & Rodding Machine Operator							
	Troweling Machine Operator (all concrete surfaces)							
A0404	Group IV, including:	49.28	8.80	11.80	1.68		L&M 0.10	71.66

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Cement Masons

*See per diem note on last page

							L&M	
A0404	Group IV, including:	49.28	8.80	11.80	1.68	0.10		71.66
	Acoustical or Imitation Acoustical Finish							
	Application of All Composition Mastic							
	Application of All Epoxy Finishes on Concrete Surfaces							
	Application of All Plastic Material							
	Finish Colored Concrete							
	Guniting Nozzleman							
	Hand Powered Grinder							
	Preparing, scratching and browsing of all ceilings and walls, finished with terrazzo or tile							
	Tunnel Worker							

							L&M	
A0405	Group V, including:	49.28	8.80	11.80	1.68	0.10		71.66
	Casting and finishing							
	EIFS Systems							
	Finishing of all interior and exterior plastering							
	Fireproofing (Pryocrete, Cafco, Albi-Clad, sprayed fiberglass)							
	Gypsum, Portland Cement							
	Kindred material and products							
	Operation and control of all types of plastering machines, including power tools and floats, used by the industry							
	Overcoating and maintenance of interior/exterior plaster surfaces							
	Plasterer							
	Support and control of all concrete 3D printing operations (Excluding Paint)							
	Use of 3D structural and architectural printing and finishes							
	Use of sustainable materials and equipment practices							
	Veneer plastering process (Rapid Plaster, U.S.G. "Imperial Systems", and Pabcoat Systems")							
	Venetian plaster and color-integrated Italian/Middle-Eastern line plaster							

Culinary Workers

							LEG	
A0501	Baker/Cook	32.15	6.77	9.23				48.15
							LEG	
A0503	General Helper	28.23	6.77	9.23				44.23
	Housekeeper							
	Janitor							
	Kitchen Helper							

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Culinary Workers							
A0504	Head Cook	32.15	6.77	9.23		LEG	48.15
A0505	Head Housekeeper	28.23	6.77	9.23		LEG	44.23
	Head Kitchen Help						
Dredgemen *See per diem note on last page							
A0601	Assistant Engineer	52.32	12.10	16.25	1.05	L&M 0.10	81.82
	Craneman						
	Electrical Generator Operator (primary pump/power barge/dredge)						
	Engineer						
	Welder						
A0602	Assistant Mate (deckhand)	50.93	12.10	16.25	1.05	L&M 0.10	80.43
A0603	Fireman	51.46	12.10	16.25	1.05	L&M 0.10	80.96
A0605	Leverman Clamshell	55.33	12.10	16.25	1.05	L&M 0.10	84.83
A0606	Leverman Hydraulic	53.23	12.10	16.25	1.05	L&M 0.10	82.73
A0607	Mate & Boatman	52.32	12.10	16.25	1.05	L&M 0.10	81.82
A0608	Oiler (dredge)	51.46	12.10	16.25	1.05	L&M 0.10	80.96
Electricians *See per diem note on last page							
A0701	Inside Cable Splicer	55.44	14.83	14.49	0.95	L&M 0.25 LEG 0.15	86.11
A0702	Inside Journeyman Wireman, including:	55.44	14.83	14.49	0.95	L&M 0.25 LEG 0.15	86.11
	Technicians (including use of drones in electrical construction)						
A0703	Power Cable Splicer	74.34	14.83	19.92	0.95	L&M 0.25 LEG 0.15	110.44
A0704	Tele Com Cable Splicer	55.28	14.83	18.56	0.95	L&M 0.25 LEG 0.15	90.02

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Electricians								
*See per diem note on last page								
A0705	Power Journeyman Lineman, including: Power Equipment Operator Technician (including use of drones in electrical construction)	72.59	14.83	19.87	0.95	L&M	LEG	108.64
						0.25	0.15	
A0706	Tele Com Journeyman Lineman, including: Technician (including use of drones in telecommunications construction) Tele Com Equipment Operator	53.53	14.83	18.51	0.95	L&M	LEG	88.22
						0.25	0.15	
A0707	Straight Line Installer - Repairman	53.53	14.83	18.51	0.95	L&M	LEG	88.22
						0.25	0.15	
A0708	Powderman	70.59	14.83	19.81	0.95	L&M	LEG	106.58
						0.25	0.15	
A0710	Material Handler	29.57	15.34	5.89	0.15	L&M	LEG	51.25
						0.15	0.15	
A0712	Tree Trimmer Groundman	32.97	14.83	14.84	0.15	L&M	LEG	63.09
						0.15	0.15	
A0713	Journeyman Tree Trimmer	42.23	14.83	15.12	0.15	L&M	LEG	72.63
						0.15	0.15	
A0714	Vegetation Control Sprayer	45.91	14.83	15.23	0.15	L&M	LEG	76.42
						0.15	0.15	
A0715	Inside Journeyman Communications CO/PBX	55.44	14.83	14.49	0.95	L&M	LEG	86.11
						0.25	0.15	
Elevator Workers								
*See per diem note on last page								
A0802	Elevator Constructor	50.01	16.28	21.36	0.80	L&M	VAC	95.60
						1.60	5.55	
A0803	Elevator Constructor Mechanic	71.44	16.28	21.36	0.80	L&M	VAC	119.41
						1.60	7.93	
Heat & Frost Insulators/Asbestos Workers (North of 63rd Parallel)								
*See per diem note on last page								
N0902	Asbestos Abatement-Mechanical Systems	46.35	9.24	11.13	1.50	IAF	LML	68.45
						0.18	0.05	
N0904	Insulator, Group II	46.35	9.24	11.13	1.50	IAF	LML	68.45
						0.18	0.05	
N0905	Fire Stop	46.35	9.24	11.13	1.50	IAF	LML	68.45
						0.18	0.05	
Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation								

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Heat & Frost Insulators/Asbestos Workers (South of 63rd Parallel)								
*See per diem note on last page								
						IAF	LML	
S0902	Asbestos Abatement-Mechanical Systems	45.85	9.24	11.13	1.50	0.18	0.05	67.95
						IAF	LML	
S0904	Insulator, Group II	45.85	9.24	11.13	1.50	0.18	0.05	67.95
						IAF	LML	
S0905	Fire Stop	45.85	9.24	11.13	1.50	0.18	0.05	67.95
IronWorkers								
*See per diem note on last page								
						L&M	IAF	
A1101	Ironworkers, including:	48.48	10.41	26.45	1.12	0.20		86.66
	Bender Operators							
	Bridge & Structural							
	Hangar Doors							
	Hollow Metal Doors							
	Industrial Doors							
	Machinery Mover							
	Mass Timber Construction (Cross Laminate Timber)							
	Ornamental							
	Reinforcing							
	Rigger							
	Sheeter							
	Signalman							
	Stage Rigger							
	Toxic Haz-Mat Work							
	Welder							
						L&M	IAF	
A1102	Helicopter	49.48	10.41	26.45	1.12	0.20		87.66
	Helicopter (used for rigging and setting)							
	Tower (energy producing windmill type towers to include nacelle and blades)							
						L&M	IAF	
A1103	Fence/Barrier Installer	44.98	10.41	26.45	1.12	0.20		83.16
						L&M	IAF	
A1104	Guard Rail Layout Man	45.72	10.41	26.45	1.12	0.20		83.90
						L&M	IAF	
A1105	Guard Rail Installer	45.98	10.41	26.45	1.12	0.20		84.16
Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)								
*See per diem note on last page								

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)

*See per diem note on last page

						L&M	LEG	
N1201	Group I, including:	40.25	10.55	21.51	2.00	0.35	0.20	74.86
	Asphalt Worker (shovelman, plant crew)							
	Brush Cutter							
	Camp Maintenance Laborer							
	Carpenter Tender or Helper							
	Choke Setter, Hook Tender, Rigger, Signalman							
	Concrete Labor (curb & gutter, chute handler, curing, grouting, screeding)							
	Crusher Plant Laborer							
	Demolition Laborer							
	Ditch Digger							
	Dumpman							
	Environmental Laborer (hazard/toxic waste, oil spill)							
	Fence Installer							
	Fire Watch Laborer							
	Flagman							
	Form Stripper							
	General Laborer							
	Guardrail Laborer, Bridge Rail Installer							
	Hydro Seeder Nozzleman							
	Laborer, Building							
	Landscaper or Planter							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)							
	Material Handler							
	Pneumatic or Power Tools							
	Portable or Chemical Toilet Serviceman							
	Pump Man or Mixer Man							
	Railroad Track Laborer							
	Sandblast, Pot Tender							
	Saw Tender							
	Slurry Work							
	Steam Cleaner Operator							
	Steam Point or Water Jet Operator							
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)							
	Tank Cleaning							
	Utiliwalk & Utilidor Laborer							
	Watchman (construction projects)							
	Window Cleaner							

						L&M	LEG	
N1202	Group II, including:	41.25	10.55	21.51	2.00	0.35	0.20	75.86

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)

*See per diem note on last page

						L&M	LEG	
N1202	Group II, including:	41.25	10.55	21.51	2.00	0.35	0.20	75.86

Burning & Cutting Torch
 Cement or Lime Dumper or Handler (sack or bulk)
 Certified Erosion Sediment Control Lead (CESCL Laborer)
 Choker Splicer
 Chucktender (wagon, air-track & hydraulic drills)
 Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)
 Culvert Pipe Laborer
 Cured Inplace Pipelayer
 Environmental Laborer (asbestos, marine work)
 Floor Preparation, Core Drilling
 Foam Gun or Foam Machine Operator
 Green Cutter (dam work)
 Guniting Operator
 Hod Carrier
 Jackhammer/Chipping Gun or Pavement Breaker
 Laser Instrument Operator
 Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)
 Mason Tender & Mud Mixer (sewer work)
 Pilot Car
 Pipelayer Helper
 Plasterer, Bricklayer & Cement Finisher Tender
 Powderman Helper
 Power Saw Operator
 Railroad Switch Layout Laborer
 Sandblaster
 Scaffold Building & Erecting
 Sewer Caulker
 Sewer Plant Maintenance Man
 Thermal Plastic Applicator
 Timber Faller, Chainsaw Operator, Filer
 Timberman

						L&M	LEG	
N1203	Group III, including:	42.15	10.55	21.51	2.00	0.35	0.20	76.76

Bit Grinder
 Camera/Tool/Video Operator
 Guardrail Machine Operator
 High Rigger & Tree Topper
 High Scaler
 Multiplate

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)

*See per diem note on last page

						L&M	LEG	
N1203	Group III, including:	42.15	10.55	21.51	2.00	0.35	0.20	76.76

Plastic Welding
Slurry Seal Squeegee Man
Traffic Control Supervisor
Welding Certified (in connection with laborer's work)

						L&M	LEG	
N1204	Group IIIA	46.53	10.55	21.51	2.00	0.35	0.20	81.14

Asphalt Raker, Asphalt Belly Dump Lay Down
Drill Doctor (in the field)
Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)
Pioneer Drilling & Drilling Off Tugger (all type drills)
Pipelayers
Powderman (Employee Possessor)
Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)
Traffic Control Supervisor, DOT Qualified

						L&M	LEG	
N1205	Group IV	29.82	10.55	21.51	2.00	0.35	0.20	64.43

Final Building Cleanup
Permanent Yard Worker

						L&M	LEG	
N1206	Group IIIB	54.01	5.50	21.51	1.60	0.35	0.20	83.17

Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)
Federal Powderman (Responsible Person in Charge)
Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)
Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)
Stake Hopper

Laborers (The area that is south of N63 latitude and west of W138 longitude)

*See per diem note on last page

						L&M	LEG	
S1201	Group I, including:	40.25	10.55	21.51	2.00	0.35	0.20	74.86

Asphalt Worker (shovelman, plant crew)
Brush Cutter
Camp Maintenance Laborer
Carpenter Tender or Helper
Choke Setter, Hook Tender, Rigger, Signalman
Concrete Labor (curb & gutter, chute handler, curing, grouting, screeding)

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Laborers (The area that is south of N63 latitude and west of W138 longitude)

*See per diem note on last page

						L&M	LEG	
S1201	Group I, including:	40.25	10.55	21.51	2.00	0.35	0.20	74.86

Crusher Plant Laborer
Demolition Laborer
Ditch Digger
Dumpman
Environmental Laborer (hazard/toxic waste, oil spill)
Fence Installer
Fire Watch Laborer
Flagman
Form Stripper
General Laborer
Guardrail Laborer, Bridge Rail Installer
Hydro Seeder Nozzleman
Laborer, Building
Landscape or Planter
Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)
Material Handler
Pneumatic or Power Tools
Portable or Chemical Toilet Serviceman
Pump Man or Mixer Man
Railroad Track Laborer
Sandblast, Pot Tender
Saw Tender
Slurry Work
Steam Cleaner Operator
Steam Point or Water Jet Operator
Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)
Tank Cleaning
Utiliwalk & Utilidor Laborer
Watchman (construction projects)
Window Cleaner

						L&M	LEG	
S1202	Group II, including:	41.25	10.55	21.51	2.00	0.35	0.20	75.86

Burning & Cutting Torch
Cement or Lime Dumper or Handler (sack or bulk)
Certified Erosion Sediment Control Lead (CESCL Laborer)
Choker Splicer
Chucktender (wagon, air-track & hydraulic drills)
Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Laborers (The area that is south of N63 latitude and west of W138 longitude)								
*See per diem note on last page								
							L&M	LEG
S1202	Group II, including:	41.25	10.55	21.51	2.00	0.35	0.20	75.86
	Culvert Pipe Laborer							
	Cured Inplace Pipelayer							
	Environmental Laborer (asbestos, marine work)							
	Floor Preparation, Core Drilling							
	Foam Gun or Foam Machine Operator							
	Green Cutter (dam work)							
	Gunite Operator							
	Hod Carrier							
	Jackhammer/Chipping Gun or Pavement Breaker							
	Laser Instrument Operator							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)							
	Mason Tender & Mud Mixer (sewer work)							
	Pilot Car							
	Pipelayer Helper							
	Plasterer, Bricklayer & Cement Finisher Tender							
	Powderman Helper							
	Power Saw Operator							
	Railroad Switch Layout Laborer							
	Sandblaster							
	Scaffold Building & Erecting							
	Sewer Caulker							
	Sewer Plant Maintenance Man							
	Thermal Plastic Applicator							
	Timber Faller, Chainsaw Operator, Filer							
	Timberman							
							L&M	LEG
S1203	Group III, including:	42.15	10.55	21.51	2.00	0.35	0.20	76.76
	Bit Grinder							
	Camera/Tool/Video Operator							
	Guardrail Machine Operator							
	High Rigger & Tree Topper							
	High Scaler							
	Multiplate							
	Plastic Welding							
	Slurry Seal Squeegee Man							
	Traffic Control Supervisor							
	Welding Certified (in connection with laborer's work)							
							L&M	LEG
S1204	Group IIIA	46.53	10.55	21.51	2.00	0.35	0.20	81.14

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Laborers (The area that is south of N63 latitude and west of W138 longitude)

*See per diem note on last page

						L&M	LEG	
S1204	Group IIIA	46.53	10.55	21.51	2.00	0.35	0.20	81.14

Asphalt Raker, Asphalt Belly Dump Lay Down
 Drill Doctor (in the field)
 Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)
 Pioneer Drilling & Drilling Off Tugger (all type drills)
 Pipelayers
 Powderman (Employee Possessor)
 Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)
 Traffic Control Supervisor, DOT Qualified

						L&M	LEG	
S1205	Group IV	29.82	10.55	21.51	2.00	0.35	0.20	64.43

Final Building Cleanup
 Permanent Yard Worker

						L&M	LEG	
S1206	Group IIIB	54.01	5.50	21.51	1.60	0.35	0.20	83.17

Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)
 Federal Powderman (Responsible Person in Charge)
 Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)
 Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)
 Stake Hopper

Millwrights

*See per diem note on last page

						L&M		
A1251	Millwright (journeyman)	62.50	9.50	11.41	1.17	0.15	0.25	84.98

						L&M		
A1252	Millwright Welder	63.50	9.50	11.41	1.17	0.15	0.25	85.98

Painters, Region I (North of N63 latitude)

*See per diem note on last page

						L&M		
N1301	Group I, including:	43.05	10.15	15.20	1.10	0.10		69.60

Brush
 General Painter
 Hand Taping
 Hazardous Material Handler
 Lead-Based Paint Abatement

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Painters, Region I (North of N63 latitude)								
*See per diem note on last page								
							L&M	
N1301	Group I, including:	43.05	10.15	15.20	1.10	0.10		69.60
	Roll							
							L&M	
N1302	Group II, including:	43.57	10.15	15.20	1.10	0.10		70.12
	Bridge Painter							
	Epoxy Applicator							
	General Drywall Finisher							
	Hand/Spray Texturing							
	Industrial Coatings Specialist							
	Machine/Automatic Taping							
	Pot Tender							
	Sandblasting							
	Specialty Painter							
	Spray							
	Structural Steel Painter							
	Wallpaper/Vinyl Hanger							
N1304	Group IV, including:	46.76	10.15	19.21	1.10	0.10		77.32
	Glazier							
	Storefront/Automatic Door Mechanic							
N1305	Group V, including:	39.48	10.15	5.00	1.10	0.10		55.83
	Carpet Installer							
	Floor Coverer							
	Heat Weld/Cove Base							
	Linoleum/Soft Tile Installer							
N1306	Group VI, including:	69.78	11.21	10.49	1.00	0.10		92.58
	Traffic Control Striper							
Painters, Region II (South of N63 latitude)								
*See per diem note on last page								
							L&M	
S1301	Group I, including :	37.29	10.15	18.95	1.10	0.10		67.59
	Brush							
	General Painter							
	Hand Taping							
	Hazardous Material Handler							
	Lead-Based Paint Abatement							
	Roll							
Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation								

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Painters, Region II (South of N63 latitude)								
*See per diem note on last page								
						L&M		
S1301	Group I, including :	37.29	10.15	18.95	1.10	0.10		67.59
Spray								
						L&M		
S1302	Group II, including :	38.54	10.15	18.95	1.10	0.10		68.84
General Drywall Finisher								
Hand/Spray Texturing								
Machine/Automatic Taping								
Wallpaper/Vinyl Hanger								
						L&M		
S1303	Group III, including :	38.64	10.15	18.95	1.10	0.10		68.94
Bridge Painter								
Epoxy Applicator								
Industrial Coatings Specialist								
Pot Tender								
Sandblasting								
Specialty Painter								
Structural Steel Painter								
						L&M		
S1304	Group IV, including:	47.42	10.15	17.85	1.10	0.10		76.62
Glazier								
Storefront/Automatic Door Mechanic								
						L&M		
S1305	Group V, including:	39.48	10.15	5.00	1.10	0.10		55.83
Carpet Installer								
Floor Coverer								
Heat Weld/Cove Base								
Linoleum/Soft Tile Installer								
						L&M		
S1306	Group VI, including:	69.78	11.21	10.49	1.00	0.10		92.58
Traffic Control Striper								
Piledrivers								
*See per diem note on last page								
						L&M	IAF	
A1401	Piledriver	50.79	8.75	16.80	0.77	0.10		77.21
Assistant Dive Tender								
Carpenter/Piledriver								
Rigger								
Sheet Stabber								

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Piledrivers								
*See per diem note on last page								
A1401	Piledriver	50.79	8.75	16.80	0.77	L&M	IAF	77.21
	Skiff Operator							
A1402	Piledriver-Welder/Toxic Worker	51.79	8.75	16.80	0.77	L&M	IAF	78.21
A1403	Remotely Operated Vehicle Pilot/Technician	55.10	8.75	16.80	0.77	L&M	IAF	81.52
	Single Atmosphere Suit, Bell or Submersible Pilot							
A1404	Diver (working) **See note on last page	94.90	8.75	16.80	0.77	L&M	IAF	121.32
A1405	Diver (standby) **See note on last page	55.10	8.75	16.80	0.77	L&M	IAF	81.52
A1406	Dive Tender **See note on last page	54.10	8.75	16.80	0.77	L&M	IAF	80.52
A1407	Welder (American Welding Society, Certified Welding Inspector)	56.35	8.75	16.80	0.77	L&M	IAF	82.77
Plumbers, Region I (North of N63 latitude)								
*See per diem note on last page								
N1501	Journeyman Pipefitter	55.66	12.95	20.20	1.75	L&M	S&L	91.76
	Plumber							
	Welder							
Plumbers, Region II (South of N63 latitude)								
*See per diem note on last page								
S1501	Journeyman Pipefitter	50.00	14.28	16.52	2.40	L&M		83.40
	Plumber							
	Welder							
Plumbers, Region IIA (1st Judicial District)								
*See per diem note on last page								
X1501	Journeyman Pipefitter	53.00	16.17	12.50	3.10	L&M		85.01
	Plumber							
	Welder							

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Power Equipment Operators

*See per diem note on last page

							L&M	
A1601	Group I, including:	53.23	12.10	16.25	1.05	0.10		82.73
	Asphalt Roller: Breakdown, Intermediate, and Finish							
	Back Filler							
	Barrier Machine (Zipper)							
	Beltcrete with Power Pack & similar conveyors							
	Bending Machine							
	Boat Coxswain							
	Bulldozer							
	Cableways, Highlines & Cablecars							
	Cleaning Machine							
	Coating Machine							
	Concrete Hydro Blaster							
	Cranes (45 tons & under or 150 feet of boom & under (including jib & attachments))							
	(a) Hydralifts or Transporters, (all track or truck type)							
	(b) Derricks							
	(c) Overhead							
	Crushers							
	Deck Winches, Double Drum							
	Ditching or Trenching Machine (16 inch or over)							
	Drag Scraper, Yarder, and similar types							
	Drilling Machines, Core, Cable, Rotary and Exploration							
	Finishing Machine Operator, Concrete Paving, Laser Screed, Sidewalk, Curb & Gutter Machine							
	Grade Checker and/or Line and Grade including Drone							
	Helicopters							
	Hover Craft, Flex Craft, Loadmaster, Air Cushion, All-Terrain Vehicle, Rollagon, Bargecable, Nodwell, & Snow Cat							
	Hydro Ax, Feller Buncher & similar							
	Hydro Excavation (Vac-Truck and Similar)							
	Loaders (2 1/2 yards through 5 yards, including all attachments):							
	(a) Forklifts (with telescopic boom & swing attachment)							
	(b) Front End & Overhead, (2-1/2 yards through 5 yards)							
	(c) Loaders, (with forks or pipe clamp)							
	(d) Loaders, (elevating belt type, Euclid & similar types)							
	Material Transfer Vehicle (Elevating Grader, Pickup Machine, and similar types)							
	Mechanic, Welder, Bodyman, Electrical, Camp & Maintenance Engineer							
	Micro Tunneling Machine							
	Mixers: Mobile type with hoist combination							
	Motor Patrol Grader							
	Mucking Machine: Mole, Tunnel Drill, Horizontal/Directional Drill Operator and/or Shield							

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Power Equipment Operators

*See per diem note on last page

							L&M	
A1601	Group I, including:	53.23	12.10	16.25	1.05	0.10		82.73

Off-Road Hauler (including Articulating and Haul Trucks)
 Operator on Dredges
 Piledriver Engineer, L.B. Foster, Puller or similar paving breaker
 Plant Operator (Asphalt & Concrete)
 Power Plant, Turbine Operator 200 k.w. & over (power plants or combination of power units over 300 k.w.)
 Remote Controlled Equipment
 Scraper (through 40 yards)
 Service Oiler/Service Engineer
 Shot Blast Machine
 Shovels, Backhoes, Excavators with all attachments, and Gradealls (3 yards & under)
 Sideboom (under 45 tons)
 Sub Grader (Gurries & similar types)
 Tack Tractor
 Truck Mounted Concrete Pump, Conveyor/Tele-belt, & Creter
 Wate Kote Machine

							L&M	
A1602	Group IA, including:	55.33	12.10	16.25	1.05	0.10		84.83

Camera/Tool/Video Operator (Slipline)
 Certified Welder, Electrical Mechanic, Camp Maintenance Engineer, Mechanic (over 10,000 hours)
 Cranes (over 45 tons or 150 feet including jib & attachments)
 (a) Clamshells & Draglines (over 3 yards)
 (b) Tower Cranes
 Licensed Water/Waste Water Treatment Operator
 Loaders (over 5 yards)
 Motor Patrol Grader, Dozer, Grade Tractor (finish: when finishing to final grade and/or to hubs, or for asphalt)
 Power Plants (1000 k.w. & over)
 Profiler, Reclaimer, and Roto-Mill
 Quad
 Scrapers (over 40 yards)
 Screed
 Shovels, Backhoes, Excavators with all attachments (over 3 yards)
 Sidebooms (over 45 tons)
 Slip Form Paver, C.M.I. & similar types
 Topside (Asphalt Paver, Slurry machine, Spreaders, and similar types)

							L&M	
A1603	Group II, including:	52.32	12.10	16.25	1.05	0.10		81.82

Boiler - Fireman

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Power Equipment Operators

*See per diem note on last page

							L&M	
A1603	Group II, including:	52.32	12.10	16.25	1.05	0.10		81.82

Cement Hogs & Concrete Pump Operator
 Conveyors (except those listed in Group I)
 Hoists on Steel Erection, Towermobiles & Air Tuggers
 Horizontal/Directional Drill Locator
 Locomotives, Rod & Geared Engines
 Mixers
 Screening, Washing Plant
 Sideboom (cradling rock drill, regardless of size)
 Skidder
 Trenching Machines (under 16 inches)
 Water/Waste Water Treatment Operator

							L&M	
A1604	Group III, including:	51.46	12.10	16.25	1.05	0.10		80.96

"A" Frame Trucks, Deck Winches
 Bombardier (tack or tow rig)
 Boring Machine
 Brooms, Power (sweeper, elevator, vacuum, or similar)
 Bump Cutter
 Compressor
 Farm Tractor
 Forklift, Industrial Type
 Gin Truck or Winch Truck (with poles when used for hoisting)
 Hoists, Air Tuggers, Elevators
 Loaders:
 (a) Elevating-Athey, Barber Greene & similar types
 (b) Forklifts or Lumber Carrier (on construction job sites)
 (c) Forklifts, (with tower)
 (d) Overhead & Front End, (under 2-1/2 yards)
 Locomotives: Dinkey (air, steam, gas & electric) Speeders
 Mechanics, Light Duty
 Oil, Blower Distribution
 Posthole Digger, Mechanical
 Pot Fireman (power agitated)
 Power Plant, Turbine Operator, (under 200 k.w.)
 Pumps, Water
 Roller (other than Asphalt)
 Saws, Concrete
 Skid Hustler
 Skid Steer (with all attachments)
 Stake Hopper

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Power Equipment Operators								
*See per diem note on last page								
							L&M	
A1604	Group III, including:	51.46	12.10	16.25	1.05	0.10		80.96
	Straightening Machine							
	Tow Tractor							
							L&M	
A1605	Group IV, including:	44.06	12.10	16.25	1.05	0.10		73.56
	Crane Assistant Engineer/Rig Oiler							
	Drill Helper							
	Parts & Equipment Coordinator							
	Spotter							
	Steam Cleaner							
	Swamper (on trenching machines or shovel type equipment)							
Roofers								
*See per diem note on last page								
							L&M	
A1701	Roofer & Waterproofer	52.07	13.90	4.01	0.81	0.10	0.09	70.98
							L&M	
A1702	Roofer Material Handler	38.68	13.90	4.01	0.81	0.10	0.09	57.59
Sheet Metal Workers, Region I (North of N63 latitude)								
*See per diem note on last page								
							L&M	
N1801	Sheet Metal Journeyman	58.73	13.45	15.94	0.17	0.12		88.41
	Brazing, soldering or welding of metals							
	Demolition of sheet metal HVAC & HVAC-R systems							
	Fabrication and installation of heating, ventilation and air conditioning ducts and equipment							
	Fabrication and installation of interior and exterior wall sheathing, siding, metal roofing, flashing, gutters, decking and architectural sheet metal work							
	Fabrication and installation of louvers and hoods							
	Fabrication and installation of sheet metal lagging							
	Fabrication and installation of stainless steel commercial or industrial food service equipment & wall sheathing							
	HVAC & HVAC-R Service Mechanic, servicing and maintaining and making operable HVAC & HVAC-R Systems							
	HVAC & HVAC-R systems controls and programming							
	Installation, inspection, testing, servicing, and maintenance of fire dampers, smoke control systems, smoke evacuation systems, and fire/smoke dampers							

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Sheet Metal Workers, Region I (North of N63 latitude)

*See per diem note on last page

							L&M	
N1801	Sheet Metal Journeyman	58.73	13.45	15.94	0.17	0.12		88.41

Installation, servicing, and maintenance of commercial laundry systems and associated equipment

Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work

Metal lavatory partitions

Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work

Sheet Metal shelving, lockers

Sheet Metal venting, chimneys and breaching

Skylight installation

Testing, Adjusting and Balancing (TAB) of all HVAC & HVAC-R mechanical systems as well as the cleaning of those systems

Sheet Metal Workers, Region II (South of N63 latitude)

*See per diem note on last page

							L&M	
S1801	Sheet Metal Journeyman	52.08	13.45	15.30	2.08	0.43		83.34

Brazing, soldering or welding of metals

Demolition of sheet metal HVAC & HVAC-R systems

Fabrication and installation of heating, ventilation and air conditioning ducts and equipment

Fabrication and installation of interior and exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work

Fabrication and installation of louvers and hoods

Fabrication and installation of sheet metal lagging

Fabrication and installation of stainless steel commercial or industrial food service equipment & wall sheathing

HVAC & HVAC-R Service Mechanic, servicing and maintaining and making operable HVAC & HVAC-R Systems

HVAC & HVAC-R systems controls and programming

Installation, inspection, testing, servicing, and maintenance of fire dampers, smoke control systems, smoke evacuation systems, and fire/smoke dampers

Installation, servicing, and maintenance of commercial laundry systems and associated equipment

Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work

Metal lavatory partitions

Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work

Sheet Metal shelving, lockers

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Sheet Metal Workers, Region II (South of N63 latitude)							
*See per diem note on last page							
S1801	Sheet Metal Journeyman	52.08	13.45	15.30	2.08	L&M 0.43	83.34
	Sheet Metal venting, chimneys and breaching						
	Skylight installation						
	Testing, Adjusting and Balancing (TAB) of all HVAC & HVAC-R mechanical systems as well as the cleaning of those systems						
Sprinkler Fitters							
*See per diem note on last page							
A1901	Sprinkler Fitter	60.67	12.40	18.45	0.54	L&M 0.25	92.31
Surveyors							
*See per diem note on last page							
A2001	Chief of Parties	59.93	13.48	14.64	1.30	L&M 0.10	89.45
A2002	Party Chief	55.78	13.48	14.64	1.30	L&M 0.10	85.30
A2003	Line & Grade Technician/Office Technician/GPS, Drones	52.77	13.48	14.64	1.30	L&M 0.10	82.29
A2004	Associate Party Chief (including Instrument Person & Head Chain Person)/Stake Hop/Grademan	50.31	13.48	14.64	1.30	L&M 0.10	79.83
A2006	Chain Person (for crews with more than 2 people)	45.29	13.48	14.64	1.30	L&M 0.10	74.81
Truck Drivers							
*See per diem note on last page							
A2101	Group I, including:	51.58	13.48	14.64	1.30	L&M 0.10	81.10
	Air/Sea Traffic Controllers						
	Ambulance/Fire Truck Driver (EMT certified)						
	Boat Coxswain						
	Captains & Pilots (air & water)						
	Deltas, Commanders, Rollagons, & similar equipment (when pulling sleds, trailers or similar equipment)						
	Dump Trucks (including articulating end dumps, rockbuggy, side dump, belly dump, & trucks with pups) over 40 yards up to & including 60 yards						
	Fueler						
	Helicopter Transporter						

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Truck Drivers

*See per diem note on last page

							L&M	
A2101	Group I, including:	51.58	13.48	14.64	1.30	0.10		81.10

Liquid Vac Truck/Super Vac Truck
Material Coordinator or Purchasing Agent
Oil Distributor Truck
Ready-mix (over 12 yards up to & including 15 yards) (over 15 yards to be negotiated)
Semi with Double Box Mixer
Tireman, Medium Duty (Truck Tires up to 1200-24")
Water Wagon (250 Bbls and above)

							L&M	
A2102	Group 1A including:	53.05	13.48	14.64	1.30	0.10		82.57

Dump Trucks (including rockbuggy, side dump, belly dump & trucks with pups) over 60 yards up to & including 100 yards (over 100 yards to be negotiated)
Jeeps (driver under load)
Lowboys, including tractor attached trailers & jeeps, up to & including 12 axles (over 12 axles or 150 tons to be negotiated)
Tireman Heavy Duty (earthmover tires, i.e., loader, scraper, haul truck)

							L&M	
A2103	Group II, including:	50.12	13.48	14.64	1.30	0.10		79.64

All Deltas, Commanders, Rollagons, & similar equipment
Batch Trucks (8 yards & up)
Batch Trucks (up to & including 7 yards)
Boom Truck/Knuckle Truck (over 5 tons)
Cacasco Truck/Heat Stress Truck
Construction and Material Safety Technician
Dump Trucks (including articulating end dump, rockbuggy, side dump, belly dump, & trucks with pups) over 20 yards up to & including 40 yards
Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating over 5 tons)
Mechanics
Partsman
Ready-mix (up to & including 12 yards)
Stringing Truck
Turn-O-Wagon or DW-10 (not self loading)

							L&M	
A2104	Group III, including:	49.17	13.48	14.64	1.30	0.10		78.69

Boom Truck/Knuckle Truck (up to & including 5 tons)
Dump Trucks (including articulating end dump, rockbuggy, side dump, belly dump, & trucks with pups) over 10 yards up to & including 20 yards
Expeditor (electrical & pipefitting materials)

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Truck Drivers

*See per diem note on last page

							L&M	
A2104	Group III, including:	49.17	13.48	14.64	1.30	0.10		78.69

Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame
manufactured rating 5 tons & under)
Greaser - Shop
Semi or Truck & Trailer
Thermal Plastic Layout Technician
Traffic Control Technician
Trucks/Jeeps (push or pull)

							L&M	
A2105	Group IV, including:	48.50	13.48	14.64	1.30	0.10		78.02

Air Cushion or similar type vehicle
All Terrain Vehicle
Buggymobile
Bull Lift & Fork Lift, Fork Lift with Power Boom & Swing Attachment
(over 5 tons)
Bus Operator (over 30 passengers)
Cement Spreader, Dry
Combination Truck-Fuel & Grease
Compactor (when pulled by rubber tired equipment)
Dump Trucks (including rockbuggy, side dump, belly dump, & trucks
with pups) up to & including 10 yards
Dumpster
Expeditor (general)
Fire Truck/Ambulance Driver
Flat Beds, Dual Rear Axle
Foam Distributor Truck Dual Axle
Front End Loader with Fork
Grease Truck
Hydro Seeder, Dual Axle
Hyster Operators (handling bulk aggregate)
Loadmaster (air & water operations)
Lumber Carrier
Ready-mix, (up to & including 7 yards)
Rigger (air/water/oilfield)
Tireman, Light Duty
Track Truck Equipment
Truck Vacuum Sweeper
Warehouseperson
Water Truck (Below 250 Bbls)
Water Truck (straight)
Water Wagon, Semi

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Truck Drivers

*See per diem note on last page

							L&M	
A2106	Group V, including:	47.62	13.48	14.64	1.30	0.10		77.14

Buffer Truck
 Bull Lifts & Fork Lifts, Fork Lifts with Power Boom & Swing
 Attachments (up to & including 5 tons)
 Bus Operator (up to 30 passengers)
 Farm Type Rubber Tired Tractor (when material handling or pulling
 wagons on a construction project)
 Flat Beds, Single Rear Axle
 Foam Distributor Truck Single Axle
 Fuel Handler (station/bulk attendant)
 Gear/Supply Truck
 Gravel Spreader Box Operator on Truck
 Hydro Seeder, Single Axle
 Pickups (pilot cars & all light-duty vehicles)
 Rigger
 Swamper
 Tack Truck (welders/gear)
 Team Drivers (horses, mules, & similar equipment)

Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)

*See per diem note on last page

							L&M	LEG	
N2201	Group I, including:	44.28	10.55	21.51	2.00	0.35	0.20		78.89

Brakeman
 Mucker
 Nipper
 Storm Water Pollution Protection Plan Worker (SWPPP Worker -
 erosion and sediment control Laborer)
 Topman & Bull Gang
 Tunnel Track Laborer

							L&M	LEG	
N2202	Group II, including:	45.38	10.55	21.51	2.00	0.35	0.20		79.99

Burning & Cutting Torch
 Certified Erosion Sediment Control Lead (CESCL Laborer)
 Concrete Laborer
 Floor Preparation, Core Drilling
 Jackhammer/Chipping Gun or Pavement Breaker
 Laser Instrument Operator
 Nozzlemen, Pumpcrete or Shotcrete
 Pipelayer Helper

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)								
*See per diem note on last page								
N2203	Group III, including:	46.37	10.55	21.51	2.00	L&M 0.35	LEG 0.20	80.98
	Miner							
	Retimberman							
N2204	Group IIIA, including:	51.18	10.55	21.51	2.00	L&M 0.35	LEG 0.20	85.79
	Asphalt Raker, Asphalt Belly Dump Lay Down							
	Drill Doctor (in the field)							
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)							
	Pioneer Drilling & Drilling Off Tugger (all type drills)							
	Pipelayer							
	Powderman (Employee Possessor)							
	Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)							
	Traffic Control Supervisor, DOT Qualified							
N2206	Group IIIB, including:	59.41	5.50	21.51	1.60	L&M 0.35	LEG 0.20	88.57
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)							
	Federal Powderman (Responsible Person in Charge)							
	Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)							
	Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)							
	Stake Hopper							
Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)								
*See per diem note on last page								
S2201	Group I, including:	44.28	10.55	21.51	2.00	L&M 0.35	LEG 0.20	78.89
	Brakeman							
	Mucker							
	Nipper							
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)							
	Topman & Bull Gang							
	Tunnel Track Laborer							
S2202	Group II, including:	45.38	10.55	21.51	2.00	L&M 0.35	LEG 0.20	79.99
	Burning & Cutting Torch							
	Certified Erosion Sediment Control Lead (CESCL Laborer)							
	Concrete Laborer							
	Floor Preparation, Core Drilling							
Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation								

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)

*See per diem note on last page

						L&M	LEG	
S2202	Group II, including:	45.38	10.55	21.51	2.00	0.35	0.20	79.99

Jackhammer/Chipping Gun or Pavement Breaker

Laser Instrument Operator

Nozzlemen, Pumpcrete or Shotcrete

Pipelayer Helper

						L&M	LEG	
S2203	Group III, including:	46.37	10.55	21.51	2.00	0.35	0.20	80.98

Miner

Retimberman

						L&M	LEG	
S2204	Group IIIA, including:	51.18	10.55	21.51	2.00	0.35	0.20	85.79

Asphalt Raker, Asphalt Belly Dump Lay Down

Drill Doctor (in the field)

Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)

Pioneer Drilling & Drilling Off Tugger (all type drills)

Pipelayer

Powderman (Employee Possessor)

Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)

Traffic Control Supervisor, DOT Qualified

						L&M	LEG	
S2206	Group IIIB, including:	59.41	5.50	21.51	1.60	0.35	0.20	88.57

Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)

Federal Powderman (Responsible Person in Charge)

Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)

Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)

Stake Hopper

Tunnel Workers, Power Equipment Operators

*See per diem note on last page

						L&M	
A2207	Group I	58.55	12.10	16.25	1.05	0.10	88.05

						L&M	
A2208	Group IA	60.86	12.10	16.25	1.05	0.10	90.36

						L&M	
A2209	Group II	57.55	12.10	16.25	1.05	0.10	87.05

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Tunnel Workers, Power Equipment Operators								
*See per diem note on last page								
							L&M	
A2210	Group III	56.60	12.10	16.25	1.05	0.10		86.10
							L&M	
A2211	Group IV	48.47	12.10	16.25	1.05	0.10		77.97

* Per diem is an established practice for this classification. This means that per diem is an allowable alternative to board and lodging if all criteria are met. See 8 AAC 30.051-08 AAC 30.056, and the per diem information on page vii of this Pamphlet.

** Work in combination of classifications: Employees working in any combination of classifications within the diving crew (working diver, standby diver, and tender) in a shift are paid in the classification with the highest rate for a minimum of 8 hours per shift.

Wage benefits key: ANU=Annuity, BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

SPECIAL PROVISIONS

The Standard Specifications for Civil Engineering Projects and Subdivision Improvements December 2003 Edition, with sixteen Errata Sheets, as published by the City and Borough of Juneau, is part of these Contract Documents and shall pertain to all phases of the contract. The Standard Specifications for Civil Engineering Projects and Subdivision Improvements December 2003 Edition, with two Errata Sheets, is available for a fee from the City and Borough of Juneau Engineering Contracts Office, (907) 586-0800 ext. 4196, or you may view them online at: www.juneau.org/engineering.

Special Provisions - Table of Contents

Section No.	Section Title	Page No.
01010	Summary of Work	2
01025	Measurement and Payment	5
01700	Project Close-Out	12
02202	Excavation and Embankment	17
02204	Base Course	17
02702	Construction Surveying	17
02707	Chain Link Fence	17
02710	Seeding	17
02714	Filter Cloth	20
26 0510	Basic Electrical Materials and Methods	22
26 0519	Low Voltage Conductors and Cables	30
26 0526	Grounding and Bonding for Electrical Systems	35
26 0533	Raceways and Boxes for Electrical Systems	41
26 0553	Identification for Electrical Systems	48
26 2416	Panelboards	52
26 2713	Electricity Metering	58
26 2726	Wiring Devices	60
26 2813	Fuses	63
26 2816	Enclosed Switches and Circuit Breakers	64
26 4313	Surge Protective Devices	67
26 5600	Exterior Lighting	73

SPECIAL PROVISIONS

Add the following Section:

SECTION 01010 - SUMMARY OF WORK

PART 1 - GENERAL

1.1 GENERAL

- A. The WORK to be performed under this contract shall consist of furnishing all plant, tools, equipment, materials, supplies, manufactured articles and furnishing all labor, transportation and services, including all fuel, power, water and essential communications and performing all WORK, or other operations required for the fulfillment of the contract in strict accordance with the Contract Documents. The WORK shall be complete, and all WORK, materials, and services, not expressly indicated or called for in the Contract Documents which may be necessary for the complete and proper construction of the WORK in good faith shall be provided by the CONTRACTOR as though originally so indicated, at no increase in cost to the OWNER.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. The WORK covered in the Contract Documents generally includes the construction of a secure storage facility at the Little Rock Dump site. WORK will include construction material relocation, clearing and grubbing, excavation, borrow fill grading, placement of roadway section, construction of gravel pad, installation of fencing, installation of gate, installation of lighting, and other related WORK.
- B. SITE OF WORK: The site of the proposed WORK is Little Rock Dump, off Thane Road, south of Juneau, AK.

1.3 WORK BY OTHERS

- A. The CONTRACTOR's attention is directed to the fact that work may be conducted at the site by other contractors during the performance of the WORK under this contract. The CONTRACTOR shall conduct its operations to cause a minimum of interference with the WORK of such other contractors and shall cooperate fully with such contractors to provide continuous safe access to their respective portions of the site, as required to perform work under their respective contracts.
- C. The CONTRACTOR shall cooperate fully with all utility forces of the OWNER or private agencies engaged in the relocation, altering, or otherwise rearranging of any facilities which interfere with the progress of the WORK, and shall schedule the WORK so as to minimize interference with said relocation, altering, or other rearranging of facilities.

1.4 CONTRACTOR USE OF PROJECT SITE

- A. The CONTRACTOR's use of the Project site shall include construction operations and storage of materials, fabrication facilities, and field offices only in those areas identified on the Drawings.

SPECIAL PROVISIONS

1.5 OWNER USE OF THE PROJECT SITE

- A. The OWNER may utilize all or part of the existing site during the entire period of construction for the conduct of the OWNER's normal operations. The CONTRACTOR shall cooperate and coordinate with the ENGINEER to facilitate the OWNER's operations and to minimize interference with the CONTRACTOR's operation. In any event, the OWNER shall be allowed access to the Project site during the period of construction.

1.6 PROJECT MEETINGS

A. Pre-Construction Conference

1. Prior to the commencement of WORK at the site, a Pre-Construction Conference will be held at a mutually agreed time and place which shall be attended by the CONTRACTOR's Project Manager, its superintendent, and its Subcontractors as the CONTRACTOR deems appropriate. Other attendants will be:
 - a. ENGINEER and Inspector.
 - b. Representatives of OWNER.
 - c. Governmental representatives as appropriate.
 - d. Others as requested by CONTRACTOR, OWNER, or ENGINEER.
2. The Pre-Construction Conference shall be rescheduled unless the CONTRACTOR submits to the ENGINEER, a minimum of 7 days before the Pre-Construction Conference, the following:
 - a. Plan of Operation.
 - b. Project Overview Bar Chart Schedule.
 - c. Procurement schedule of major equipment and materials and items requiring long lead time.
 - d. Shop Drawing/Sample/Substitute or "Or Equal" submittal schedule.
 - e. Name and telephone number of CONTRACTOR's Project Supervisor.
 - f. Erosion Control Plan.
3. The purpose of the Pre-Construction Conference is to designate responsible personnel and establish a working relationship. Matters requiring coordination will be discussed and procedure for handling such matters established. The complete agenda will be furnished to the CONTRACTOR prior to the meeting date. The CONTRACTOR should be prepared to discuss all of the items listed below:
 - a. Status of CONTRACTOR's insurance and bonds.
 - b. CONTRACTOR's tentative schedules.
 - c. Transmittal, review, and distribution of CONTRACTOR's submittals.
 - d. Processing applications for payment.
 - e. Maintaining record documents.
 - f. Critical WORK sequencing.
 - g. Field decisions and Change Orders.
 - h. Use of Project site, office and storage areas, security, housekeeping, and OWNER's needs.
 - i. Major equipment deliveries and priorities.
 - j. CONTRACTOR's assignments for safety and first aid.
4. The OWNER will preside at the Pre-Construction Conference and will arrange for keeping and distributing the minutes to all persons in attendance.

SPECIAL PROVISIONS

5. The CONTRACTOR and its Subcontractors should plan on the conference taking no longer than three hours. Items listed in paragraph 3 will be covered as well as a review of the Drawings and Specifications with the ENGINEER and OWNER.

B. Progress Meetings

1. The CONTRACTOR shall schedule and hold regular on-site progress meetings at least weekly and at other times as requested by the ENGINEER, OWNER, or as required by the progress of the WORK. The CONTRACTOR, ENGINEER, and all Subcontractors active on the site must attend each meeting. CONTRACTOR may at its discretion request attendance by representatives of its Suppliers, manufacturers, and other Subcontractors.
2. The ENGINEER shall conduct the regular on-site progress meetings with the CONTRACTOR and will arrange for recording and distributing the minutes. The purpose of the meetings will be to review the progress of the WORK, maintain coordination of efforts, discuss changes in scheduling, and resolve other problems which may develop. During each meeting, the CONTRACTOR is required to present any issues which may impact the WORK, with a view toward resolving these issues expeditiously.

1.7 DEFINITIONS APPLICABLE TO TECHNICAL SPECIFICATIONS

A. The following words have the meaning defined in the Technical Portions of the WORK:

1. Furnish - supply and deliver to the site, to unload and unpack ready for assembly, installation, testing, and start-up.
2. Indicated - to direct the CONTRACTOR to information contained on the drawings or in the Specifications. Terms such as "shown", "noted", "scheduled", and "specified" also may be used to assist in locating information but no limitation of location is implied or intended.
3. Install - operations at the site including assembly, erection, placing, anchoring, applying, shaping to dimension, finishing, curing, protecting, and cleaning, ready for the OWNER's use.
4. Installer - a person or firm engaged by the CONTRACTOR or its subcontractor, or any Subcontractor, for the performance of installation, erection, or application WORK at the site. Installers must be expert in the operations they are engaged to perform.
5. Provide- furnish and install, ready for the intended use.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 01025 – MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 SCOPE

- A. Payment for the various items of the Bid Schedule, as further specified herein, shall include all compensation to be received by the CONTRACTOR for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items for WORK being described, as necessary to complete the various items of the WORK all in accordance with the requirements of the Contract Documents, including all appurtenances thereto, and including all costs of permits and cost of compliance with the regulations of public agencies having jurisdiction, including safety and health requirements of Occupational Safety and Health Administration (OSHA) of the U.S. Department of Labor and Occupational Safety and Health Standards of the Alaska Department of Labor, Division of Labor Standards and Safety.
- B. No separate payment will be made for any Pay Item that is not specifically set forth in the Bid Schedule, and all costs therefore shall be included in the prices named in the Bid Schedule for the various appurtenant items of WORK.
- C. In addition to the other incidental items of WORK listed elsewhere in the contract, the following items shall be incidental to other items of WORK under this contract:
 - 1. Maintenance of all services through the Project area including power, water, storm and sanitary sewers, garbage pickup, mail delivery, and emergency vehicles.
 - 2. Repair or replacement of existing adjacent facilities outside the work area including piping, landscaping, steel, timber, concrete and asphalt items damaged by the contractor.
 - 3. Final clean-up and site restoration.
 - 4. All WORK necessary for coordination of work to be accomplished by the private utility companies and property owners within the Project limits.
 - 5. Watering of the roadway as necessary for dust control.
 - 6. All fittings required for storm pipes.
 - 7. Hydroseeding disturbed areas outside of clearing and grubbing limits.
 - 8. All WORK related to dewatering including necessary pumps, temporary piping, sump drain rock, installing well points, sumps and French drains and control measures to keep trench excavations for underground utilities and structures free of water.

1.2 MOBILIZATION (Pay Item Nos. 1505.1) PRICE BASED ON LUMP SUM PAY UNIT

- A. Measurement for payment for Mobilization will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. Payment for Mobilization will be made at the amount shown on the Bid Schedule under Pay Item Nos. 1505.1, which payment will constitute full compensation for all WORK

SPECIAL PROVISIONS

described in Section 01505 - Mobilization, as shown on the Drawings and as directed by the ENGINEER.

C. Partial payments will be made as the WORK progresses as follows:

1. When 5% of the total original contract amount is earned from other Pay Items, 50% of the amount bid for Mobilization, or 5% of the original contract amount, whichever is lesser, will be paid.
2. When 10% of the total original contract amount is earned from other Pay Items, 100% of the amount bid for Mobilization, or 10% of the original contract amount, whichever is lesser, will be paid.
3. Upon completion of all WORK on the Project, payment of any amount bid for Mobilization in excess of 10% of the total contract amount will be paid.

1.3 EROSION AND SEDIMENT CONTROL (Pay Item Nos. 1570.1) PRICE BASED ON LUMP SUM PAY UNIT

- A. Measurement for payment for Erosion and Sediment Control will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. WORK under this Pay Item includes obtaining all necessary permits for storm water control as required by Alaska Department of Environmental Conservation and the Environmental Protection Agency. This includes furnishing, installing, and maintaining all measures required by these permits.
- C. Payment for Erosion and Sediment Control will be made at the amount shown on the Bid Schedule under Pay Item Nos. 1570.1, which payment will constitute full compensation for all WORK described in Section 01570 – Erosion and Sediment Control, as shown on the Drawings and as directed by the ENGINEER.

2.1 CLEARING AND GRUBBING (Pay Item No. 2201.1) PRICE BASED ON LUMP SUM PAY UNIT

- A. Measurement for payment for Clearing and Grubbing will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. WORK under this Pay Item includes clearing the project site of trees, shrubs, and other organic materials to the limits shown on the Drawings, all in accordance with the Contract Documents and as directed by the ENGINEER.
- C. Payment for Clearing and Grubbing will be made at the amount shown on the Bid Schedule under Pay Item No. 2201.1, which payment will constitute full compensation for all WORK described in Section 02201 – Clearing and Grubbing, as shown on the Drawings and as directed by the ENGINEER.

2.2 CONSTRUCTION MATERIAL RELOCATION (Pay Item No. 2201.2) PRICE BASED ON LUMP SUM PAY UNIT

SPECIAL PROVISIONS

- D. Measurement for payment for Construction Material Relocation will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- E. The WORK under this Pay Item includes relocating construction materials, including but not limited to steel piles, wood beams, and construction debris, as directed by the OWNER. This includes all labor, equipment, and materials required for safe handling, transport, and restaging without damage. Materials shall be stored in a stable, accessible manner.
- F. Payment for Construction Material Relocation will be made at the amount shown on the Bid Schedule under Pay Item No. 2201.2, which payment will constitute full compensation for all WORK described in Section 02201 – Clearing and Grubbing, as shown on the Drawings and as directed by the ENGINEER.

2.3 EXCAVATION (Pay Item No. 2202.1) PRICE BASED ON QUANTITY, CUBIC YARD

- A. Measurement for payment for Excavation will be based on the number of cubic yards of unclassified material actually excavated, as determined by the average end area method. Where impractical to measure by the average end area method, the ENGINEER may approve other acceptable methods involving three-dimensional measurements. Excavation outside of the subcut limits indicated in the Drawings or directed by the ENGINEER will not be measured for payment.
- B. No deduction in the measurement for Excavation will be made for the trenching required for pipe and structure installations above the bottom of, or within the subcut limits as shown on the Typical Sections.
- C. Measurement for payment may be selected by the CONTRACTOR from one of the following methods:
 - 1. From actual cross sections taken by the CONTRACTOR's surveyor (following pavement and concrete curbing, slabs or sidewalk removal where present), with the lower limits determined by the neat line subcut limits as indicated on the Typical Sections, or as directed by the ENGINEER.
 - 2. The CONTRACTOR may review and utilize the ENGINEER's design earthwork quantity computations in lieu of providing its own quantity determinations.
- D. The following will not be measured for direct payment; the cost of such WORK shall be incidental to other WORK under the contract:
 - 1. Overburden and other spoil material from borrow sources.
 - 2. Removal of water by aeration of material to obtain required moisture content.
 - 3. Any volumes of water or other liquid material.
 - 4. Material used for the purpose other than directed.
 - 5. Roadbed material scarified in place and not removed.
 - 6. Material excavated when benching.
 - 7. Slide or slip out material attributable to the carelessness of the CONTRACTOR.
 - 8. The volume of conserved materials stockpiled at the option of the CONTRACTOR.

SPECIAL PROVISIONS

- 9. Placement of usable or otherwise suitable material from excavation, as determined by the ENGINEER, into the new roadway as embankment or selected embankment, or as embankment for any areas outside the roadway subcut within the project limits.
 - E. Payment for Excavation will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2202.1, which payment will constitute full compensation for all WORK described in Section 02202 - Excavation and Embankment, as shown on the Drawings and as directed by the ENGINEER.
- 2.4 SELECTED EMBANKMENT (Pay Item No. 2202.2) PRICE BASED ON QUANTITY, CUBIC YARD
- A. Measurement for payment for Selected Embankment will be based on the number of cubic yards of material in place as determined by the average end area method and will be determined on a neatline basis. Where impractical to measure by the average end area method, the ENGINEER may approve other acceptable methods involving three-dimensional measurements. Embankment outside of the lines, grades and cross sections indicated in the Drawings or as directed by the ENGINEER will be deducted from quantities for pay purposes.
 - B. Water needed for compaction and added to the base material on the grade will be considered incidental.
 - C. Usable material from excavation, meeting the requirements for Selected Embankment, shall be used as Selected Embankment prior to the Contractor importing any additional Selected Embankment.
 - D. Payment for Selected Embankment will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2202.2, which payment will constitute full compensation for all WORK described in Section 02202 – Excavation and Embankment, as shown on the Drawings and as directed by the ENGINEER.
- 2.5 ROAD CLEANING AND MINING AREA RESTORATION GUARANTEE (Pay Item No. 2202.3) PRICE BASED ON CONTINGENT SUM PAY UNIT
- A. Measurement for this Item will be made as a Contingent Sum Pay Unit for completion of Road Cleaning and Mining Area Restoration.
 - B. The CONTRACTOR shall be responsible for removal of dirt, mud, rocks and other debris from CBJ and State Right-of-Ways accumulated from the hauling operations to and from the project job site and also CBJ material source operations. It is the intent that the traveled public way be kept as clean as practicable to minimize dust and to avoid unsafe traffic conditions. If the CONTRACTOR fails to perform necessary road cleaning in a timely manner, no later than the end of each day, the CBJ may hire outside forces to perform the WORK and deduct the cost from this contract, beginning with the funds remaining within this contingent sum pay item.
 - C. The CONTRACTOR shall execute a site-specific *User Agreement*, which includes terms and conditions for mining and processing of material with CBJ Engineering Department

SPECIAL PROVISIONS

Material Sources Management, prior to beginning operations in CBJ's Material Sources. The CONTRACTOR shall be responsible for restoration of their work area and/or mining area in accordance with the conditions and specific operating agreements of the material source used. If the CONTRACTOR fails to perform the required mining area restoration, the CBJ may hire outside forces to perform the WORK and deduct the cost from this contract, beginning with the funds remaining within this contingent sum pay item.

- D. Release of final payment for Mining Area Restoration and Road Cleaning Guarantee will be made upon determination of completeness by the ENGINEER after deduction of OWNER incurred costs for necessary road cleaning and/or mining area restoration not completed by the CONTRACTOR.
- E. Payment for Road Cleaning and Mining Area Restoration Guarantee will be made at the amount named in the Bid Schedule under Pay Item No. 2202.3, with deductions as described in this Article, which payment will constitute full compensation for all WORK described in Section 2202 – Excavation and Embankment, as shown on the Drawings and as directed by the ENGINEER.

2.6 2-INCH MINUS SHOT ROCK W/ BASE COURSE (Pay Item No. 2204.1) PRICE BASED ON QUANTITY, CUBIC YARD

- A. 2-Inch Minus Shot Rock w/ Base Course will be measured by the number of cubic yards of material in place as determined by the average end area method and will be determined on a neatline basis. Where impractical to measure by the average end area method, the ENGINEER may approve other acceptable methods involving three-dimensional measurements. Material outside of the lines, grades and cross sections indicated in the Drawings, or as directed by the ENGINEER, will be deducted from 2-Inch Minus Shot Rock w/ Base Course quantities for pay purposes.
- B. Water needed for compaction added to the base material on grade is incidental.
- C. 2-Inch Minus Shot Rock w/ Base Course will be placed and compacted into a layer 6- inch thick and covered with a 3-inch thick layer of Base Course, Grading D-1, to a total thickness of 9-inch at the access road, pad, and driveway as shown in the plans. The total neatline volume of the combined materials will be measured for payment under this Pay Item.
- D. Payment for 2-Inch Minus Shot Rock w/ Base Course, will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2204.1, which payment will constitute full compensation for all WORK described in Section 2204 – Base Course, as shown on the Drawings and as directed by the ENGINEER.

2.7 12-INCH CPP PIPE CULVERT (Pay Item Nos. 2501.1) PRICE BASED ON QUANTITY, LINEAR FOOT

- A. Culverts Pipes, including all coupling bands, bends and other items necessary for the proper joining of the culvert pipe sections, will be measured by the staked length in linear feet.
- B. Trench excavation, warning tape, bedding, backfill and imported backfill will not be measured for payment, but shall be incidental to other WORK.

SPECIAL PROVISIONS

- C. Payment for 12-Inch CPP Pipe Culvert will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2501.1, which payment will constitute full compensation for all WORK described in Section 02501 - Storm Sewer Pipe, as shown on the Drawings and as directed by the ENGINEER.
- 2.9 CONSTRUCTION SURVEYING (Pay Item No. 2702.1) PRICE BASED ON LUMP SUM PAY UNIT
- A. Measurement for payment of Construction Surveying will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
 - B. The WORK required to remove and reset all survey monuments and other survey markers disturbed by construction activities whether shown on the Drawings or not, shall be incidental to the WORK.
 - C. The Work required to submit Record of Monument at the recorder's office shall be incidental to this Pay Item.
 - D. Payment for Construction Surveying will be made at the amount named in the Bid Schedule under Pay Item No. 2702.1, which payment will constitute full compensation for all WORK described in Section 02702 - Construction Surveying, as shown on the Drawings and as directed by the ENGINEER.
- 2.10 8-FOOT CHAIN LINK FENCE (Pay Item No. 2707.1) PRICE BASED ON QUANTITY, LINEAR FOOT
- A. Measurement for payment of 8-Foot Chain Link Fence will be based on the actual linear feet complete in place and accepted.
 - B. Payment for 8-Foot Chain Link Fence will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2707.1, which payment will constitute full compensation for all WORK described in Section 02707 – Chain Link Fence, as shown on the Drawings and as directed by the ENGINEER.
- 2.11 SINGLE CANTILEVER GATE, 20-FT WIDE (Pay Item No. 2707.2) PRICE BASED QUANTITY, EACH
- A. Measurement for payment of 20-Foot Rolling Gate will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
 - B. Payment for Single Cantilever Gate, 20-ft Wide will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2707.2, which payment will constitute full

SPECIAL PROVISIONS

compensation for all WORK described in Section 02707 – Chain Link Fence, as shown on the Drawings and as directed by the ENGINEER.

2.12 SEEDING, HYDRAULIC METHOD, TYPE III (Pay Item No. 2710.1) PRICE BASED ON QUANTITY, SLURRY UNIT

- A. Seeding by the hydraulic method will be measured for payment by the number of slurry units (to the nearest 1/10 unit) of mixture applied to the designated areas, as directed by the ENGINEER.
- B. Payment for Seeding, Hydraulic Method, Type III will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2710.1, which payment will constitute full compensation for all WORK described in Section 02710 - Seeding, as shown on the Drawings and as directed by the ENGINEER.

2.13 SEPERATION GEOTEXTILE (Pay Item No. 2714.1) PRICE BASED ON QUANTITY, SQUARE YARD

- A. Measurement for payment of Separation Geotextile will be based on the actual square yards complete in place and accepted.
- B. Payment for Geotextile, Type D will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2714.1, which payment will constitute full compensation for all WORK described in Section 02714 – Filter Cloth, as shown on the Drawings and as directed by the ENGINEER.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

SPECIAL PROVISIONS

SECTION 01700 – PROJECT CLOSE-OUT, PART 1 – GENERAL, Article 1.3, FINAL SUBMITTALS, Paragraph A. *Delete* items 6, 7 and 8 and *replace* with the following subparagraph:

6. Compliance Certificate and release, signed by the CONTRACTOR, shall be submitted to the Engineering Contract Administrator.

SECTION 01700 – PROJECT CLOSE-OUT, PART 1 – GENERAL, Article 1.3, FINAL SUBMITTALS, *Add* the following paragraph:

- C. Before final payment, the CONTRACTOR shall provide the OWNER with clearance from the Alaska Department of Labor and Workforce Development for the CONTRACTOR and all Subcontractors that have worked on the Project. This clearance shall indicate that all Employment Security Taxes have been paid. A sample form for this propose is at the end of Section 00800 – supplementary General Conditions.

SECTION 01700 – PROJECT CLOSE-OUT, PART 1 – GENERAL, *Replace* the COMPLIANCE CERTIFICATE AND RELEASE FORM *with the following forms*:

SPECIAL PROVISIONS

COMPLIANCE CERTIFICATE AND RELEASE FORM

PROJECT: Little Rock Dump Secure Storage

CONTRACT NO: DH26-015

The **CONTRACTOR** must complete and submit this form to the Contract Administrator with respect to the entire contract and submit completed Subcontractor Compliance forms for each Subcontractor used on the Contract and listed on the Subcontractor report.

Completed forms shall be submitted upon completion of the Project. All requirements and submittals must be met before final payment will be made to the CONTRACTOR.

I certify that the following and any referenced attachments are true:

- All WORK has been performed, materials supplied, and requirements met in accordance with the applicable Drawings, Specifications, and Contract Documents.
- All payments to Subcontractors and Suppliers have been made in accordance with Alaska Statute 36.90.210. If not, please provide written explanation, for each case, why and the specific mutual payment agreement reached with the Supplier or Subcontractor.
- CHECK ONE:
 - ☐ All Suppliers and Subcontractors have been paid in full with no claims for labor, materials or other services outstanding.
 - ☐ The following Suppliers and Subcontractors are due final payment which will be made upon the release of the final payment by the CBJ. List the Suppliers and Subcontractors and the amount they are due below (attach separate sheet if necessary) :

	Supplier or Subcontractor	Amount Owed
1.		\$
2.		\$
3.		\$
4.		\$
5.		\$
6.		\$
7.		\$

SPECIAL PROVISIONS

- All employees have been paid not less than the current prevailing wage rates set by the State of Alaska (or U.S. Department of Labor, as applicable).
- All equal employment opportunity, certified payroll and other reports have been filed in accordance with the prime contract.
- The attached list of Subcontractors is complete (required from CONTRACTOR). The City Engineer was advised and approved of all Subcontractors before WORK was performed and has approved any substitutions of Subcontractors.
- All DBE firms listed as a precondition of the prime contract award must have performed a commercially useful function in order for the WORK to count to a DBE goal. All DBE firms performed the WORK stated and have received at least the amount claimed for credit in the Contract Documents.
- All DBE Subcontractors must attach a signed statement of the payment amount received, the nature of WORK performed, whether any balance is outstanding, and indicate that no rebates are involved.
- If the amount paid is less than the amount originally claimed for DBE credit, the CONTRACTOR has attached approval from the City Engineer for underutilization.

I understand it is unlawful to misrepresent information in order to receive a payment which would otherwise be withheld if these conditions were not met. I am an authorized agent of this firm and sign this freely and voluntarily. The foregoing statements are true and apply to the following project contractor.

Firm Name Capacity: CONTRACTOR

Signature	Printed Name and Title	Date
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Return completed form to: Engineering Contracts Division, City and Borough of Juneau, 155 South Seward Street, Juneau, AK 99801 or by email to: contracts@juneau.org

Call (907) 586-0800 ext. 4196 if we can be of further assistance or if you have any questions.

SPECIAL PROVISIONS

SUBCONTRACTOR COMPLIANCE CERTIFICATE AND RELEASE FORM

PROJECT: Little Rock Dump Secure Storage

CONTRACT NO: DH26-015

Each **SUBCONTRACTOR** must complete and submit this form to the Contract Administrator, through the General Contractor, with respect to the entire contract.

Completed forms shall be submitted upon completion of the Project. All requirements and submittals must be met before final payment will be made to the CONTRACTOR.

I certify that the following and any referenced attachments are true:

- All WORK has been performed, materials supplied, and requirements met in accordance with the applicable Drawings, Specifications, and Contract Documents.
- _____ (name of firm) has been paid by the Contractor in accordance with Alaska Statute 36.90.210. (If not, please provide written explanation on an attached sheet, for each case. Provide specific details why payment was not made and the specific mutual payment agreement reached with the Contractor if it is still unresolved.)
- CHECK ONE:
 - ☐ I / WE have been paid in full by the Contractor, with no claims for labor, materials or other services outstanding.
 - ☐ I / WE are due the following amount from the Contractor which is included in the Contractors Request for Final Payment. WE are due a total of \$ _____ for the following individual items that have yet to be paid (attach separate sheet if necessary).

	Outstanding Payment Item	Outstanding Amount Owed
1.		\$
2.		\$
3.		\$
4.		\$
5.		\$
6.		\$
7.		\$

SPECIAL PROVISIONS

- All employees have been paid not less than the current prevailing wage rates set by the State of Alaska (or U.S. Department of Labor, as applicable).
- All equal employment opportunity, certified payroll and other reports have been filed in accordance with the prime contract.

I understand it is unlawful to misrepresent information in order to receive a payment which would otherwise be withheld if these conditions were not met. I am an authorized agent of this firm and sign this freely and voluntarily. The foregoing statements are true and apply to the following project contractor.

Firm Name

Capacity: SUBCONTRACTOR

Signature

Printed Name and Title

Date

Prime Contractor shall return completed form to: Engineering Contracts Division, City and Borough of Juneau, 155 South Seward Street, Juneau, AK 99801 or email: contracts@juneau.org Call (907) 586-0800 ext. 4196 if we can be of further assistance or if you have any questions.

SPECIAL PROVISIONS

SECTION 02202 – EXCAVATION AND EMBANKMENT, PART 2 - PRODUCTS, *add the following Article:*

2.8 USABLE MATERIAL FROM EXCAVATION

- A. Usable material from excavation shall meet the requirements for Embankment.

SECTION 02204 – BASE COURSE, PART 2 – PRODUCTS Article 2.1, MATERIALS, *add the following paragraphs:*

- E. Related Section – Section 02202 – EXCAVATION AND EMBANKMENT, Article 2.8, 2-INCH MINUS SHOT ROCK
- F. Base course for this project shall have a maximum Nordic Abrasion Value of 18, as determined by ATM 312, and shall meet the gradation requirements for grading D-1.

SECTION 02204 – BASE COURSE, PART 3 – EXECUTION, Article 3.1, GENERAL, *replace Paragraph 1 with the following paragraph:*

- I. The surface of the base course, when using a taut string line or straight edge of adequate length, spanning between two known grade control points (blue top hubs, lip of gutter, edge existing asphalt etc.) shall not show any deviation in excess of 3/8-Inch. This shall be checked perpendicular and longitudinally to the grade control points and be documented by the INSPECTOR. The finish surface shall not vary more than 1/2 inch from established grade. Additionally, the algebraic average of all deviations from established grade of the finish base course surface elevations taken at 50-foot intervals shall be less than 0.02 foot.

SECTION 02702 – CONSTRUCTION SURVEYING, PART 3 – EXECUTION, Article 3.1, CONSTRUCTION, *add the following paragraphs:*

- M. A closed level loop is required through TBMs listed in the Drawings. No side shots will be permitted. A copy of the surveyor's notes shall be provided to the ENGINEER. No payment will be made for Pay Item No. 2702.1 until the Engineer has received a copy of these surveyor's notes.
- N. Global Position System (GPS) survey methods shall not be used for grading control unless approved in writing by the ENGINEER.

SECTION 02707 – CHAIN LINK FENCE, PART 2 – PRODUCTS, *add the following paragraphs:*

- K. Gate hinges and attachment hardware shall securely attach to the gate post and support the weight of the gate without binding. The hinges shall be installed in a manner that prevents unauthorized removal of the gate or attachment hardware.

SECTION 02710 – SEEDING, PART 1 - GENERAL, Article 1.1 DESCRIPTION, *revise paragraph A as follows:*

- A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary for preparing the ground and furnishing and applying seed, fertilizer, lime,

SPECIAL PROVISIONS

hydraulic growth medium, and erosion control medium as called for in the Contract Documents, all in reasonable close conformity with these Specifications and at locations shown on the Drawings or established by the ENGINEER.

SECTION 02710 – SEEDING, PART 2 – PRODUCTS, *delete* ARTICLE 2.4 MULCH and *replace with the following:*

2.4 HYDRAULIC GROWTH MEDIUM

- A. Hydraulic Growth Medium (HGM) shall be biotic-active hydraulically applied mulch such as ‘Verdyol Biotic Black Earth’, or an approved equal. Any approved equal must include the following material composition:

Material Composition:

40% by volume of thermally and mechanically processed straw and flexible fibers

57% by volume of professional grade sphagnum peat moss

1.26% by volume other valuable tracer minerals, sugars, starches, proteins, fiber and 16 amino acids including folic acid, Vitamin A, triaconnatol growth stimulants/regulators

<1% by volume of fungal mycorrhizae and plant beneficial bacteria

Laboratory Analysis:

Total Organic Matter Content =>95%

Carbon:Nitrogen Ratio = 31:1

Moisture Content = 44.5% +/- 5%

pH = 5.5 (Saturated Media Extract Method)

2.5 EROSION CONTROL MEDIUM

- A. Erosion control medium shall be fully biodegradable growth medium composed of 100% recycled and thermally refined wood fibers, crimped interlocking man-made biodegradable fibers, micro-pore granules, naturally derived crosslinked biopolymers and water absorbents, such as ‘Flexterra HP-FGM’, or an approved equal. The HP-FGM is phytosanitized, free from plastic netting and requires no curing period. Any approved equal must meet the following material composition:

Material Composition:

80% by volume of thermally processed wood fiber

10% by volume of crosslinked biopolymers and water absorbents

5% by volume crimped, man-made biodegradable interlocking fibers

5% by volume micro-pore granules

SECTION 02710 – SEEDING, PART 3 - EXECUTION, Article 3.1 SOIL PREPARATION, *add the following paragraph:*

- B. The area where the HGM is to be sprayed should be inspected to evaluate the need of tillage operations before application. If tillage is required, the soil should be loosened to a minimum depth of 6 inches before the application commences. Tillage of the HGM into the subsoil is strictly not recommended as the HGM needs to be near the subsurface to be effective. It is ideal to spray the HGM over a roughened area and allows for it to stick on the soil.

SPECIAL PROVISIONS

SECTION 02710 – SEEDING, PART 3 - EXECUTION, Article 3.3 APPLICATION METHODS, paragraph A, *delete subparagraph 1 and replace with the following:*

1. Hydraulic Method

- a. Seeding by hydraulic methods shall consist of a two-pass application method. The first pass shall contain seed, fertilizer, ground limestone, and HGM. The second pass shall contain the erosion control medium.
- b. A slurry unit shall consist of a mixture of the following of seed, fertilizer, ground limestone, HGM, erosion control medium, and proportionate quantities water.

Seed	35 pounds
Fertilizer	120 pounds
Ground Limestone	500 pounds
HGM	Manufacturer's Specifications
Erosion Control Medium	Manufacturer's Specifications
Water	Proportionate to Mix

- c. An adequate scale shall be provided by the CONTRACTOR to weigh the mix proportions.
- d. The mixing and application shall be done in accordance with the manufacturer's specifications.
- e. As a quality assurance method, the area should be measured and stick delineated that matches the tank capacity of the hydroseeder equipment. The hydroseeder operator must assure to totally empty the hydroseeder tank in the delineated area. This warrants that the soil equivalent dose is applied according to specification and homogenously distributed. To ensure even coverage the HGM shall be sprayed in two directions. Avoid overspray onto the road, plantings, and other improvements. All new plantings must be protected from overspray.
- f. The slurry mixture shall be spread uniformly at the application rate, as directed by the ENGINEER, upon the areas designated.
- g. Hydraulic seeding equipment shall be capable of maintain a continuous agitation so that a homogenous mixture can be applied through a spray nozzle. The pump shall be capable of producing sufficient pressure to maintain a continuous, non-fluctuating spray capable of reaching the extremities of the seeding area with the pump unit located on the roadbed. Sufficient hose shall be provided to reach areas not practical to seed from the nozzle unit situated on the roadbed.

END OF SECTION

SPECIAL PROVISIONS

SECTION 02714 – FILTER CLOTH, PART 2, - PRODUCTS, *add the following article:*

2.5 SEPERATION GEOTEXTILE

- A. The Separation Geotextile shall be a woven geotextile material intended for separation, reinforcement, and drainage. The geotextile shall be a pervious fabric constructed from long chain polymeric filaments such as polypropylene, polyethylene, polyester, polyvinylidene chloride or polyamide formed into a stable network such that the filaments or yarns retain their relative position to each other. The geotextile shall be inert to commonly encountered chemicals and shall be free from defects. Woven geotextile shall be a pervious sheet of yarn woven into a uniform pattern with distinct and measurable openings. Edges of the cloth shall be salvaged to prevent the outer yarn from pulling away from the cloth.

The selected geotextile must meet the minimum material properties in the following table based on Minimum Average Roll Values (MARV).

MECHANICAL PROPERTIES	MIN AVERAGE ROLL VALUE
Tensile Strength at 2% Strain (MD/CD) by ASTM D4595	600/660 lbs.
Tensile Strength at 5% Strain (MD/CD) by ASTM D4595	1620/1632 lbs.
Flow Rate by ASTM D4491	70 gal/min/ft ²
Permittivity by ASTM D4491	0.9 sec ⁻¹
Pore Size 0 ₉₅ /0 ₅₀ by ASTM D6767	273/173 microns
Apparent Opening Size by ASTM 4751	U.S. Sieve 40 max.
Interaction Coefficient by ASTM D6706	0.89

SECTION 02714 – FILTER CLOTH, PART 3, EXECUTION *add the following article:*

3.2 GEOTEXTILE INSTALLATION

- A. Prepare surface by removal of stumps, boulders, and sharp objects in accordance with C.V.S.S. Section 20.03 Clearing. Fill holes and large ruts with material shown on the Drawings or as approved by the Engineer. In Areas to Be Surcharged: All trees and brush having a trunk base diameter greater than ½-inch shall be cut to within 2-inches of original ground surface. Grass shall be flattened with no more than two passes of a tracked vehicle.
- B. Unroll geotextile directly onto the prepared surface. Exposure of geotextile to the elements after removal of protective covering shall not exceed five days. Unroll geotextile for embankment reinforcement parallel to the embankment centerline.

SPECIAL PROVISIONS

Placement of geotextile shall be performed such that fabric remains flat and required laps are maintained without fabric loops or kinks developing during material spreading.

The geotextile should be placed over the subgrade material before the first lifts of structural section fill are placed. For structural section improvement, the geotextile should only be placed horizontally on the subgrade and does not need to be extended vertically up the sides of the excavation. The fabric should be placed tightly and progressively on the subgrade to avoid damage, provide temporary drainage, and allow for adjustments should the fabric surface develop excessive loops, rolls, or waves due during fill placement.

- C. Fabric shall be joined with adjacent pieces of fabric by sewing or overlapping. If fabric is sewn, the fabric shall have all seams sewn by butterfly or J-seams and shall develop a minimum of 85 percent (85%) of the specified strength. Seams shall be sewn with a double-thread chain-lock stitch. High-strength polyester, polypropylene or Kevlar thread shall be used. The seam shall be 1½-inch and ¼-inch from the outside edge of the geotextile. A minimum of 24 inches of overlap is required.
- D. Fill material placement shall not occur until the Engineer accepts surface preparation and geotextile laps. Contractor shall maintain minimum laps and fabric continuity without fabric loops or kinks during material placement and spreading. At no time shall equipment operate on the unprotected geotextile. Spread the material in the direction of the fabric overlap. On weak subgrades, spread the cover material simultaneously with dumping to minimize the potential of a localized subgrade failure. Follow the manufacturer's recommendations for material placing and spreading of the geotextile. Construction equipment shall not make sudden stops, starts, or turns on the over material. Use a smooth drum roller to achieve the specified density.
- E. Should it be determined during or after embankment construction that specified geotextile lap widths have not been achieved, or that the Contractor otherwise damages the installed geotextile, the Contractor shall correct the geotextile installation at no additional cost to the City. The Contractor shall expose the geotextile and add additional geotextile extending in all directions to achieve specified laps and coverage. After correcting the geotextile, the embankment shall be reconstructed in accordance with the Contract Documents.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 0510 - BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. All areas of the project shall be considered outdoors, exterior, and wet locations.
- B. This Section includes the following electrical materials and methods:
 - 1. Supporting devices
 - 2. Electrical identification.
 - 3. Meter Sockets.
 - 4. Fuses
 - 5. Touchup painting.
 - 6. Electrical demolition.
 - 7. Cutting and patching for electrical construction.

1.03 SUBMITTALS

- A. General: Submit each item in this Article according to the Conditions of Section 01300 – CONTRACTOR Submittals.
- B. Provide catalog cut sheets providing product data for each type of product specified. Note specifically what component is being submitted when more than one model or version is shown on the cut sheet. Where there is more than one of each type of component (circuit breaker), label the top of each cut sheet with the specific component that the cut sheet applies to.
- C. Provide shop drawings detailing fabrication and installation of supports and anchorage for electrical items. Show all components of a system and how they relate to each other during installation. Include details of mounting brackets, wiring interconnections, single line diagrams, component layout diagrams for enclosures, material lists for components in enclosures, wiring schematic diagrams with each wire numbered and each terminal numbered for wiring in enclosures.

1.04 QUALITY ASSURANCE

- A. Comply with NFPA 70 for components and installation.
- B. Listing and Labeling: Provide products specified in this Section that are listed and labeled.
 - 1. The Terms "Listed and Labeled": As defined in the National Electrical Code, Article 100.
 - 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.

SPECIAL PROVISIONS

- C. Manufacturers: All materials shall be new, unused, and of the quality specified. Materials shall be standard products of manufacturers regularly engaged in the production of such equipment and shall be the manufacturer's latest standard design.
- D. Installer: All equipment and materials shall be installed in a neat and workmanlike manner, shall be complete in both effectiveness and appearance, whether finally concealed or exposed and shall be executed by experienced mechanics.

1.05 SEQUENCING AND SCHEDULING

- A. Coordinate installation of electrical equipment with other trades.
- B. Arrange for chases, slots, and openings in building structure during progress of construction to allow for electrical installations.
- C. Coordinate installing required supporting devices and set sleeves in poured-in-place concrete and other structural components as they are constructed.
- B. Sequence, coordinate, and integrate installing electrical materials and equipment for efficient flow of the Work.
- E. Coordinate connecting electrical systems with exterior underground utilities and services. Comply with requirements of governing regulations, utility requirements, and controlling agencies.
- F. Coordinate installing electrical identification after completion of finishing where identification is applied to field-finished surfaces.
- G. Coordinate the work shown in the plans with the work of all other trades and the General Contractor. Such coordination will include work happening concurrently as well as work that happens sequentially.

PART 2 PRODUCTS

2.01 SUPPORTING DEVICES

- A. Channel and angle support systems, hangers, anchors, sleeves, brackets, fabricated items, and fasteners are designed to provide secure support from the building structure for electrical components.
 - 1. Material: Steel, except as otherwise indicated, protected from corrosion with zinc coating or with treatment of equivalent corrosion resistance using approved alternative finish or inherent material characteristics.
 - 2. Metal Items for Use Outdoors or in Damp Locations: Hot-dip galvanized steel, or type 316L stainless steel, except as otherwise indicated.
- B. Steel channel supports have 9/16-inch (14-mm) diameter holes at a maximum of 8 inches (203 mm) o.c., in at least 1 surface.
 - 1. Fittings and accessories mate and match with channels and are from the same manufacturer.

SPECIAL PROVISIONS

- C. Nonmetallic Channel and Angle Systems: Structural-grade, factory-formed, fiberglass-resin channels and angles with 9/16-inch (14-mm) diameter holes at a maximum of 8 inches (203 mm) o.c., in at least 1 surface.
 - 1. Fittings and accessories mate and match with channels or angles and are from the same manufacturer.
 - 2. Fitting and Accessory Material: Same as channels and angles, except metal items may be stainless steel.
- D. Raceway and Cable Supports: Manufactured clevis hangers, riser clamps, straps, threaded C-clamps with retainers, ceiling trapeze hangers, wall brackets, and spring steel clamps or "click"-type hangers.
- E. Sheet-Metal Sleeves: 0.0276-inch (0.7-mm) or heavier galvanized sheet steel, round tube, closed with welded longitudinal joint.
- F. Pipe Sleeves: ASTM A 53, Type E, Grade A, Schedule 40, galvanized steel, plain ends.
- G. Cable Supports for Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug for non-armored electrical cables in riser conduits. Plugs have number and size of conductor gripping holes as required to suit individual risers. Body constructed of malleable iron casting with hot-dip galvanized finish.
- H. Expansion Anchors: Red Head, Hilti, or equal. Stainless steel.
- I. Toggle Bolts: All-steel springhead type.
- J. Powder-Driven Threaded Studs: Heat-treated steel.
- K. Extension and plaster rings shall be installed as required by the NEC.
- L. Outlet boxes shall comply with the National Electrical Code in regard to the allowable fill.
- M. Cable and Conduit Seals: Seals shall be provided around all conduits and cables which penetrate smoke walls, fire walls, and floors.

2.02 ELECTRICAL IDENTIFICATION

- A. Manufacturer's Standard Products: Where more than one type is listed for a specified application, selection is Installer's option, but provide single type for each application category. Use colors prescribed by ANSI A13.1, NFPA 70, and these Specifications.
- B. Raceway and Cable Labels: Conform to ANSI A13.1, Table 3, for minimum size of letters for legend and minimum length of color field for each raceway or cable size.
 - 1. Type: Preprinted, flexible, self-adhesive, vinyl. Legend is over-laminated with a clear, weather- and chemical-resistant coating.
 - 2. Color: Black legend on orange field.
 - 3. Legend: Indicates voltage.
- C. Colored Adhesive Marking Tape for Raceways, Wires, and Cables: Self-adhesive vinyl tape not less than 3 mils thick by 1 inch wide (0.08 mm thick by 25 mm wide).
- D. Underground Line Warning Tape: Permanent, bright-colored, detectable, continuous-printed, vinyl tape with the following features:

SPECIAL PROVISIONS

1. Size: Not less than 4 mils thick by 6 inches wide.
 2. Compounded for permanent direct-burial service.
 3. Embedded continuous metallic strip or core.
 4. Printed legend that indicates type of underground line.
- E. Tape Markers: Vinyl or vinyl-cloth, self-adhesive, wraparound type with preprinted numbers and letters.
- F. Color-Coding Cable Ties: Type 6/6 nylon, self-locking type. Colors to suit coding scheme.
- G. Engraved, Plastic-Laminated Labels, Signs, and Instruction Plates: Engraving stock, melamine plastic laminate punched for mechanical fasteners 1/16-inch (1.6-mm) minimum thick for signs up to 20 sq. in. (129 sq. cm), 1/8 inch (3.2 mm) thick for larger sizes. Engraved legend in black letters on white face.
- H. Fasteners for Plastic-Laminated and Metal Signs: Self-tapping stainless-steel screws or No. 10/32 stainless-steel machine screws with nuts and flat and lock washers.
- I. All feeder and branch circuit wiring shall be color-coded as follows:

PHASE	120/208 VOLT
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A	Black
---	-------

B	Red
---	-----

C	Blue
---	------

Neutral	White
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Ground	Green
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It is acceptable to provide continuously colored conductors in lieu of black jacketed conductors with colored tape at terminals.

2.03 METER SOCKETS

- A. Meter sockets comply with serving utility company requirements. See drawings for details.

2.04 FUSES

- A. Fuses shall be furnished and installed in each fused switch, area lighting circuit, and elsewhere per the drawings. Fuses shall be rated as shown on the drawings.
- B. Provide fuses according to the following and in accordance with recommendations of manufacturers whose equipment is being protected:
1. Provide UL Class CC, current limiting, rejection type, fast acting fuses rated 600-volts, 60 Hz, 1/10 to 30 amps, with 200,000A RMS symmetrical interrupting current rating for protecting critical loads, LED lighting, etc.
- C. Provide a quantity of ten percent (10%) of spare fuses based on total quantity installed. No less than five fuses per type and size installed. Fuses shall be furnished for each size and type used. Each fused switch shall be provided with a mastic backed label clearly identifying the type and size of fuse required.

SPECIAL PROVISIONS

2.05 TOUCHUP PAINT

- A. For Equipment: Provided by equipment manufacturer and selected to match equipment finish.
- B. For Non-equipment Surfaces: Matching type and color of undamaged, existing adjacent finish.
- C. For Galvanized Surfaces: Zinc-rich paint recommended by item manufacturer.

PART 3 EXECUTION

3.01 EQUIPMENT INSTALLATION REQUIREMENTS

- A. Install components and equipment to provide the maximum possible headroom where mounting heights or other location criteria are not indicated.
- B. Install items level, plumb, and parallel and perpendicular to other building systems and components, except where otherwise indicated.
- C. Install equipment to facilitate service, maintenance, and repair or replacement of components. Connect for ease of disconnecting, with minimum interference with other installations.
- D. Mounting heights shall be considered to the top of the enclosure above finished grade. For devices, mounting heights shall be considered to the center of the box above finished grade, unless otherwise shown. All other device mounting heights shall be as shown on the drawings.
- E. Give right of way to raceways and piping systems installed at a required slope.
- F. Coordinate with all other trades to install electrical equipment without conflict with other work. Where devices or equipment is in conflict, work out a solution that accommodates both trades and coordinate solution with owner's representative. Do not change the design without the engineer's approval.
- G. Keep all equipment in a dry, heated, secure storage area prior to installation. After installation, all equipment shall be kept dry and above 55 degrees Fahrenheit. If the building cannot be kept that warm, do not install any equipment with microprocessors, any video equipment, or any telephone/data/television equipment.
- H. Equipment Bases. Provide concrete equipment bases for all grade mounted equipment furnished under this contract. Concrete bases shall be 4"-inches high unless noted otherwise and shall extend 6-inches beyond all sides of the unit. Trowel all edges at a 45 degree angle. This work shall be done in accordance with Division 3 of the specifications by the Division 16 Contractor.

3.02 ELECTRICAL SUPPORTING METHODS

- A. Damp Locations and Outdoors: Hot-dip galvanized materials or nonmetallic, U-channel system components. Consider the exterior of the building and the bus shelter spaces wet locations.
- B. Support Clamps for PVC Raceways: Click-type clamp system.
- C. Conform to manufacturer's recommendations for selecting supports.
- D. Strength of Supports: Adequate to carry all present and future loads, times a safety factor of at least 4; 200-lb- (90-kg-) minimum design load.

SPECIAL PROVISIONS

3.03 INSTALLATION

- A. Install devices to securely and permanently fasten and support electrical components.
- B. Raceway Supports: Comply with NFPA 70 and the following requirements:
 - 1. Conform to manufacturer's recommendations for selecting and installing supports.
 - 2. Install individual and multiple raceway hangers and riser clamps to support raceways. Provide U bolts, clamps, attachments, and other hardware necessary for hanger assembly and for securing hanger rods and conduits.
 - 3. Support parallel runs of horizontal raceways together on trapeze- or bracket-type hangers.
 - 4. Spare Capacity: Size supports for multiple conduits so capacity can be increased by a 25 percent minimum in the future.
 - 5. Support individual horizontal raceways with separate, malleable iron pipe hangers or clamps.
 - 6. Hanger Rods: 1/4-inch (6-mm) diameter or larger threaded steel, except as otherwise indicated.
 - 7. Spring Steel Fasteners: Specifically designed for supporting single conduits or tubing. May be used in lieu of malleable iron hangers for 1-1/2-inch (38-mm) and smaller raceways serving lighting and receptacle branch circuits above suspended ceilings and for fastening raceways to channel and slotted angle supports.
 - 8. In vertical runs, arrange support so the load produced by the weight of the raceway and the enclosed conductors is carried entirely by the conduit supports, with no weight load on raceway terminals.
- C. Vertical Conductor Supports: Install simultaneously with conductors.
- D. Miscellaneous Supports: Install metal channel racks for mounting cabinets, panelboards, disconnects, control enclosures, pull boxes, junction boxes, transformers, and other devices except where components are mounted directly to structural features of adequate strength.
- E. Sleeves: Install for cable and raceway penetrations of concrete slabs and walls, except where core-drilled holes are used. Install for cable and raceway penetrations of masonry and fire-rated gypsum walls and of all other fire-rated floor and wall assemblies. Install sleeves during erection of concrete and masonry walls. All sleeves through floors and walls shall be black iron pipe, flush with walls or finished floors; and of sizes to accommodate the raceways shown. Sleeves through outside walls above grade shall be caulked with approved caulking compound. Sleeves shall not be required through on-grade slabs. For raceways which enter buildings below grade, install manufactured floor and thru-wall seals, similar to Type "FSK" or "WSK" as manufactured by O.Z. Electric Manufacturing Co.
- F. Fastening: Unless otherwise indicated, securely fasten electrical items and their supporting hardware to the building structure. Perform fastening according to the following:
 - 1. Fasten by means of wood screws or screw-type nails on wood; toggle bolts on hollow masonry units; concrete inserts or expansion bolts on concrete or solid masonry; and by machine screws, welded threaded studs, or spring-tension clamps on steel.

SPECIAL PROVISIONS

2. Threaded studs driven by a powder charge and provided with lock washers and nuts may be used instead of expansion bolts, machine screws, or wood screws.
 3. Drill holes in concrete beams so holes more than 1-1/2 inches (38 mm) deep do not cut main reinforcing bars.
 4. Drill holes in concrete so holes more than 3/4 inch (19 mm) deep do not cut main reinforcing bars.
 5. Fill and seal holes drilled in concrete and not used.
 6. Select fasteners so the load applied to any fastener does not exceed 25 percent of the proof-test load.
- G. Install identification devices where required.
1. Install labels where indicated and at locations for best convenience of viewing without interference with operation and maintenance of equipment.
 2. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated on the Contract Documents or required by codes and standards. Use consistent designations throughout the Project.
 3. Self-Adhesive Identification Products: Clean surfaces of dust, loose material, and oily films before applying.
 4. Tag or label power circuits for future connection and circuits in raceways and enclosures with other circuits. Identify source and circuit numbers in each cabinet, pull box, junction box, and outlet box. Color coding may be used for voltage and phase indication.
 5. Identify Paths of Underground Electrical Lines: During trench backfilling, for exterior underground power, control, signal, and communication lines, install continuous underground plastic line marker located directly above power and communication lines. Locate 6 to 8 inches (150 to 200 mm) below finished grade. Where multiple lines installed in a common trench or concrete envelope do not exceed an overall width of 16 inches (400 mm), use a single line marker. See drawings for more information.
 6. For panelboards, provide framed, typed circuit schedules with explicit description and identification of items controlled by each individual breaker.
 7. Nameplates shall be provided for all items such as panelboards, cabinets, motor controllers (starters), safety switches, separately enclosed circuit breakers, control devices and other significant equipment. Nameplates shall be 1"x 2-1/2" laminated black phenolic resin with a white core with engraved lettering, a minimum of 3/16-inch high. Manufacturers factory installed nameplates shall be acceptable provided all information is furnished.
Nameplates shall identify the equipment item that the device is serving and also from where the device is being fed from. Nameplates shall also identify the system voltage of the item of equipment.
- H. Outlet Box Locations. Outlet boxes shall be located so they are not placed back-to-back in the same wall, and in metal stud walls, are separated by at least one stud space in order to limit sound transmission from room to room. Outlet boxes installed on opposite sides of fire rated walls shall be spaced at least 24" apart.

SPECIAL PROVISIONS

- I. Wiring - Number of Wires: the number of wires for lighting and receptacle branch circuits are not shown on the drawings. The number of wires in any circuit is determined in accordance with the National Electrical Code, and wiring is provided to perform all functions of the devices being installed. Additionally, wires shall be provided as required by the contract documents, i.e. equipment grounds, etc. Provide the number of wires required for a complete and workable system.

3.04 DEMOLITION

- A. Where electrical work to remain is damaged or disturbed in the course of the WORK, remove damaged portions and install new products of equal capacity, quality, and functionality.
- B. Keep all existing electrical on the project site fully operational during the course of the Work.
- C. Remove all circuits to be demolished back to the source or to the nearest junction box not to be removed. Remove all wiring in abandoned in place conduits underground.
- D. Owner has first rights to any salvageable items removed as part of the demolition process.

3.05 CUTTING AND PATCHING

- A. Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces necessary for electrical installations. Perform cutting by skilled mechanics of the trades involved.
- B. Repair disturbed surfaces to match adjacent undisturbed surfaces.
- C. Cutting, patching, repairing, and finishing of carpentry work, metal work, or concrete work, etc., which may be required for this work shall be done by craftsmen skilled in their respective trades. When cutting is required, it shall be done in such a manner as not to weaken walls, partitions, or floors. Holes required to be cut in floors must be drilled without breaking out around the holes. Cutting, patching, and painting shall conform to the requirements of the General Conditions section of this Specification.
- D. Cutting of structural framing, walls, floors, decks, or other members intended to withstand stress is not permitted.
- E. Use care in piercing water proofing. After the part piercing the waterproofing has been set in place, seal openings, and make watertight.

3.06 TOUCH-UP PAINTING

- A. Thoroughly clean damaged areas and provide primer, intermediate, and finish coats to suit the degree of damage at each location.
- B. Follow paint manufacturer's written instructions for surface preparation and for timing and application of successive coats.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 0519 – LOW VOLTAGE CONDUCTORS AND CABLES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Division 26 Section 260510 – Basic Electrical Materials and Methods.

1.02 SUMMARY

- A. This Section includes building wires and cables and associated connectors, splices, and terminations for wiring systems rated 600 V and less.
- B. All areas of the project shall be considered outdoors, exterior, and wet location except for inside the VTC Building. The covered bus shelters, parking lots, and area driveways are all wet location, exterior, outdoor spaces.

1.03 SUBMITTALS

- A. Field Test Reports: Indicate and interpret test results for compliance with performance requirements.
- B. Catalog Cut Sheets: Provide product data on all equipment including installation instructions.
- C. Field Test Reports.

1.04 QUALITY ASSURANCE

- A. Listing and Labeling: Provide wires and cables specified in this Section that are listed and labeled.
 - 1. The Terms "Listed" and "Labeled": As defined in NFPA 70, Article 100.
 - 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" as defined in OSHA Regulation 1910.7.
- B. Comply with NFPA 70, IBC, NESC, and all local, state, and federal regulations.
- C. Manufacturers: Firms regularly engaged in the manufacture of electric wire and cable products of types and ratings required, whose products have been in satisfactory use in similar service for not less than 5 years.
- D. Installer: Qualified with at least 3 years of successful installation experience on projects with electrical wiring work similar to that required for this project.
- E. UL Compliance: Comply with UL standards pertaining to electrical wire cable and connectors.
- F. UL Labels: Provide electrical wires, cables and connectors which have been UL-listed and labeled.
- G. NEMA/ICEA Compliance: Comply with applicable portions of NEMA/Insulated Cable Engineers Association Standards pertaining to materials, construction and testing of electrical wire and cable.

SPECIAL PROVISIONS

- H. ANSI/ASTM: Comply with applicable portions of ANSI/ASTM standards pertaining to construction of electrical wire and cable.
- I. IEEE Compliance: Comply with applicable portions of IEEE standards pertaining to electrical wire and cable.
- J. NECA Compliance: Comply with NECA's "Standard of Installation."

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver wires and cables according to NEMA WC 26.

1.06 COORDINATION

- A. Coordinate layout and installation of cables with other installations.
- B. Revise locations and elevations from those indicated, as required to suit field conditions and as approved by ENGINEER.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Wires and Cables:
 - a. American Insulated Wire Corp.; Leviton Manufacturing Co.
 - b. Carol Cable Co., Inc.
 - c. Southwire Company.
 - d. Leviton Manufacturing Co.
 - e. Okonite
 - f. General Cable Co.
 - 2. Connectors for Wires and Cables:
 - a. AMP Incorporated.
 - b. General Signal; O-Z/Gedney Unit.
 - c. Monogram Co.; AFC.
 - d. Square D Co.; Anderson.
 - e. 3M Company; Electrical Products Division.
 - f. Burndy Co.
 - g. Ideal Industries, Inc.
 - i. O-Z/Gedrey Co.

2.02 BUILDING WIRES AND CABLES

- A. UL-listed building wires and cables with conductor material, insulation type, cable construction, and rating as specified in Part 3 "Wire and Insulation Applications" Article.

SPECIAL PROVISIONS

- B. Rubber Insulation Material: Comply with NEMA WC 3.
- C. Thermoplastic Insulation Material: Comply with NEMA WC 5.
- D. Cross-Linked Polyethylene Insulation Material: Comply with NEMA WC 7.
- E. Ethylene Propylene Rubber Insulation Material: Comply with NEMA WC 8.
- F. Conductor Material: Copper.
 - Type MC Cable shall not be used.
- G. Stranding: Solid conductor for No. 10 AWG and smaller; stranded conductor for larger than No. 10 AWG.
- H. No wire shall be smaller than No. 12 AWG, except that wiring for signal and pilot control circuits may be No. 14 AWG, and pre-manufactured fixture whips for light fixtures may be No. 14 AWG.
 - 1. Use preinsulated connectors 3M Company "Scotchlok," or Ideal Industries, Inc. "super nut," for splices and taps in conductors No. 10 AWG and smaller. All other twist-on connectors must be reviewed by the Architect prior to installation. Use this type of connector for factory-made splices in fixtures or equipment.
 - 2. Pressure indent type connectors must be submitted to the Engineer for review.
 - 3. Tape all splices and joints with vinyl plastic tape. Use sufficient tape to secure insulation strength equal to that of the conductors joined.
 - 4. Keep splices in underground junction boxes to an absolute minimum. Where splices are necessary, use resin pressure splices and resin splicing kits to totally encapsulate the splice. Arrange the splicing kit to minimize the effects of moisture. Provide all splicing kits for review during submittals process.
- I. Connect wire No. 6 AWG and larger to panels and apparatus by means of approved lugs or connectors.
- J. Wire sizes shown are minimum based on code requirements, voltage drop and/or other considerations. Larger sizes may be installed at the Contractor's option to utilize stock size, provided conduit sizes are increased where necessary to conform to the National Electrical Code. Wires and cable sizes indicated or specified are American Wire Gage (Brown & Sharpe).

2.03 CONNECTORS AND SPLICES

- A. UL-listed, factory-fabricated wiring connectors of size, ampacity rating, material, type, and class for application and service indicated. Comply with Project's installation requirements and as specified in Part 3 "Wire and Insulation Applications" Article.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine raceways and building finishes to receive wires and cables for compliance with requirements for installation tolerances and other conditions affecting performance of wires and cables. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.02 WIRE AND INSULATION APPLICATIONS

SPECIAL PROVISIONS

- A. Service Entrance: Type XHHW, in raceway.
- B. Exterior and underground: Type XHHW-2, in raceway.
- C. Feeders: Type THWN, in raceway.
- D. Branch Circuits: Type THWN, in raceway.
- E. Class 1 Control Circuits: Type THWN, in raceway.
- F. Class 2 Control Circuits: Type THWN, in raceway.
- G. Additional cables shall be provided as specified on the drawings.

3.03 INSTALLATION

- A. Install wires and cables as indicated, according to manufacturer's written instructions and NECA's "Standard of Installation." All conductors and cables shall be continuous from source to the device they feed. There shall be no splices in the conductor or cable unless shown otherwise. Do not exceed the bending radius of any conductor or cable, replace the conductors and or cables whose bending radius has been exceeded. Do not bend large feeders past their bending radius to install them in the feeder circuit breaker. If you do, replace the entire feeder.
- B. Remove existing wires from raceway before pulling in new wires and cables.
- C. Pull Conductors: Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.
- D. Spare/Empty Raceways: Provide pull tape within all spare conduits to be provided and all emptied raceways still useable for future work.
- E. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.
- F. Support cables according to Division 26 Section 260510 - Basic Electrical Materials And Methods. Any cable that has a vertical drop exceeding six feet shall be supported by a stainless steel grip.
- G. Identify wires and cables according to Division 26 Section 260510 - Basic Electrical Materials And Methods.
- H. Run all cabling parallel and perpendicular to all walls, floors, and ceilings. When bringing cabling into equipment racks or onto mounting boards, train cables in groups, routing it parallel and perpendicular to equipment racks and mounting boards. Use cable management equipment to bundle all cables. There shall be no loose or dangling cables. Use cable ties every 12 inches to bundle cables where it is not possible to use cable management equipment.
- I. Conductors shall be continuous from outlet to outlet and no splices shall be made except within outlet or junction boxes. Junction boxes may be utilized wherever required.
- J. Prior to energization, check cable and wire for continuity of circuitry, and for short circuits. Correct malfunctions when detected.

SPECIAL PROVISIONS

- K. Bury a continuous, pre-printed, bright colored plastic ribbon cable marker with each underground cable, regardless of whether conductors are in conduit. Locate each directly over cables 12" below finished grade. See drawings for more on marker requirements.
- L. Conductor Installation: Install all conductors in a single raceway at one time, insuring that conductors do not cross one another while being pulled into raceway. Leave sufficient cable at all fittings or boxes and prevent conductor kinks. Keep all conductors within the allowable tension and exceeding the minimum bending radius.
- M. Many circuits are shown on the drawings to be provided with dedicated neutral and ground conductors. Carefully review circuiting and the electrical abbreviations and symbols legend and provide the number of conductors indicated.

3.04 CONNECTIONS

- A. Conductor Splices: No splices in feeders. No splices in branch circuits except at device locations. In underground circuits, the only splices shall be in the handholes within the light poles or in the electrical service equipment, panels, or wall/post mounted enclosures. Do not splice in exterior in-ground junction boxes. If this happens the conductors shall be replaced and the splices made in a light pole or service equipment, panel, or above ground enclosures.
- B. Install splices and tapes that possess equivalent or better mechanical strength and insulation ratings than conductors being spliced.
- C. Use splice and tap connectors compatible with conductor material.
- D. Wiring at Outlets: Install conductor at each outlet, with at least 12 inches (300 mm) of slack.
- E. Connect outlets and components to wiring and to ground as indicated and instructed by manufacturer.
- F. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

3.05 FIELD QUALITY CONTROL

- A. Testing: On installation of wires and cables and before electrical circuitry has been energized, demonstrate product capability and compliance with requirements.
 - 1. Procedures: Perform each visual and mechanical inspection and electrical test stated in NETA ATS, Section 7.3.1. Certify compliance with test parameters.
- B. Correct malfunctioning conductors and cables at Project site, where possible, and retest to demonstrate compliance; otherwise, remove and replace with new units and retest.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 0526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Division 26 Section 260510 – Basic Electrical Materials and Methods.

1.02 SUMMARY

- A. This Section includes grounding of electrical systems and equipment and basic requirements for grounding for protection of life, equipment, circuits, and systems. Grounding requirements specified in this Section may be supplemented in other Sections of these Specifications.

1.03 SUBMITTALS

- A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.
- B. Product Data for grounding rods, connectors and connection materials, and grounding fittings.
- C. Field Test Reports.

1.04 QUALITY ASSURANCE

- A. Comply with NFPA 70.
- B. Comply with UL 467.
- C. Listing and Labeling: Provide products specified in this Section that are listed and labeled.
 - 1. Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.
 - 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.
- D. Manufacturers: Firms regularly engaged in manufacture of electrical connectors, terminals and fittings, of types and ratings required, and ancillary grounding materials, including stranded cable, copper braid and bus, ground rods and plate electrodes, whose products have been of satisfactory use in similar service for not less than three years.
- E. Installer: Qualified with at least three (3) years' experience on projects with electrical grounding work similar to that required for this project.
- F. UL Compliance: Provide grounding products which are UL listed and labeled. Comply with applicable requirements of UL Standard Nos. 467 and 869 pertaining to electrical grounding and bonding.
- G. IEEE Compliance: Comply with applicable requirements of IEEE Standard 142 and 241 pertaining to electrical grounding.
- H. Utility: Grounding shall be done to comply with all applicable grounding requirements and rules of the serving utility.
- I. NECA Compliance: Comply with NECA's "Standard of Installation."

SPECIAL PROVISIONS

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - 1. Ideal Industries, Inc.
 - 2. Burndy.
 - 3. O-Z/Gedney Co.
 - 4. Thomas & Betts, Electrical.
 - 5. Crouse Hinds.

2.02 GROUNDING AND BONDING PRODUCTS

- A. Governing Requirements: Where types, sizes, ratings, and quantities indicated are in excess of National Electrical Code (NEC) requirements, the more stringent requirements and the greater size, rating, and quantity indications govern.

2.03 WIRE AND CABLE GROUNDING CONDUCTORS

- A. Comply with Division 26 Section 260519 – Low Voltage Conductors and Cables. Conform to NEC Table 8, except as otherwise indicated, for conductor properties, including stranding.
 - 1. Material: copper. Use only copper wire.
- B. Equipment Grounding Conductors: Insulated with green color insulation.
- C. Grounding-Electrode Conductors: Stranded cable.
- D. Underground Conductors: Bare, tinned, stranded, except as otherwise indicated.
- E. Bare Copper Conductors: Conform to the following:
 - 1. Solid Conductors: ASTM B 3.

2.04 MISCELLANEOUS CONDUCTORS

- A. Grounding Bus: Bare, annealed-copper bars of rectangular cross section.
- B. Braided Bonding Jumpers: Copper tape, braided No. 3/0 AWG bare copper wire, terminated with copper ferrules.
- C. Bonding Straps: Soft copper, 0.05 inch (1 mm) thick and 2 inches (50 mm) wide, except as indicated.

2.05 CONNECTOR PRODUCTS

- A. Pressure Connectors: High-conductivity-plated units.
- B. Bolted Clamps: Heavy-duty type.
- C. Exothermic-Welded Connections: Provided in kit form and selected per manufacturer's written instructions for specific types, sizes, and combinations of conductors and connected items.

2.06 GROUNDING ELECTRODES

- A. Grounding Rods: Sectional type; copper-clad steel.
 - 1. Size: 3/4 inch by 120 inches (19 by 3000 mm).

SPECIAL PROVISIONS

PART 3 EXECUTION

3.01 APPLICATION

- A. Equipment Grounding Conductors: Comply with NEC Article 250 for types, sizes, and quantities of equipment grounding conductors, except where specific types, larger sizes, or more conductors than required by NEC are indicated.
 - 1. Install equipment grounding conductor with circuit conductors for the items below in addition to those required by Code:
 - a. Feeders and branch circuits.
 - b. Lighting circuits.
 - c. Receptacle circuits.
 - d. Single-phase motor or appliance branch circuits.
 - e. Flexible raceway runs.
 - g. All circuits in conduit including low voltage.
 - 2. Nonmetallic Raceways: Install an equipment grounding conductor in nonmetallic raceways unless they are designated for telephone or data cables.
- B. Separately Derived Systems: Where NEC requires grounding, ground according to NEC Paragraph 250-26.

3.02 INSTALLATION

- A. General: Ground electrical systems and equipment according to NEC requirements, except where Drawings or Specifications exceed NEC requirements.
- B. Grounding Rods: Locate a minimum of 1-rod length from each other and at least the same distance from any other grounding electrode.
 - 1. Drive until tops are 2 inches (50 mm) below finished floor or final grade, except as otherwise indicated.
 - 2. Interconnect with grounding-electrode conductors. Use exothermic welds, except at test wells and as otherwise indicated. Make these connections without damaging copper coating or exposing steel.
- C. Grounding Conductors: Route along the shortest and straightest paths possible, except as otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
- D. Underground Grounding Conductors: Use bare copper wire. Bury at least 24 inches (600 mm) below grade.
- H. Provide a separate green equipment ground conductor in all electrical raceways to effectively ground all fixtures, panels, receptacles, controls, motors, disconnect switches, exterior lighting standards and noncurrent carrying metal enclosures. The ground wires shall be connected to the building system ground. NEC Table 250-122 (2014 Ed.) shall be used to size the ground conductor if the size is not shown on the drawings.

SPECIAL PROVISIONS

- I. To satisfy the "effective grounding" requirements of the NEC the path to ground from circuits, equipment, and conductor enclosures shall be permanent and continuous and shall have ample carrying capacity to conduct safely any currents liable to be imposed on it, and shall have impedance sufficiently low to limit the potential above ground and to facilitate the operation of the overcurrent devices in the circuit.
- J. At the service entrance equipment, bond the utility neutral, building neutral and building ground conductor to a common ground bus (or ground lug). Connect the ground bus to the building domestic cold-water pipe with a grounding conductor and an approved clamp and connector. Install the grounding conductor in exposed PVC conduit and make connections readily accessible for inspection. The point of connection to the water service shall be as near the building entrance as possible. Provide a copper wire shunt of the same size as the ground conductor around the water meter and clamp to the water pipe with bronze fittings. Bond the water pipe to the structural steel system of the building and reinforcing bars in footings when such building construction occurs. The telecommunications main grounding bar (TMGB) shall also be connected at the service entrance.
- K. Clean the contact surfaces of all ground connections.
- L. Install metallic raceways mechanically and electrically secure at all joints and at all boxes, cabinets, fittings and equipment. At the point of electrical service entrance, bond all metallic raceways together, with a ground conductor, and connect to the system ground bus. Bond all boxes as specified for equipment.
- M. Receptacles: Permanently connect the ground terminal on each receptacle to the green ground conductor.
- O. Provide UFER grounds to rebar in structural wall, floors, foundations, etc.

3.03 CONNECTIONS

- A. General: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
 - 1. Use electroplated or hot-tin-coated materials to assure high conductivity and to make contact points closer in order of galvanic series.
 - 2. Make connections with clean, bare metal at points of contact.
 - 3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.
 - 4. Make aluminum-to-galvanized steel connections with tin-plated copper jumpers and mechanical clamps.
 - 5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.
- B. Equipment Grounding-Wire Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.

SPECIAL PROVISIONS

- C. Noncontact Metal Raceway Terminations: Where metallic raceways terminate at metal housings without mechanical and electrical connection to housing, terminate each conduit with a grounding bushing. Connect grounding bushings with a bare grounding conductor to grounding bus or terminal in housing. Bond electrically non-continuous conduits at both entrances and exits with grounding bushings and bare grounding conductors, except as otherwise indicated.
- D. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. Where these requirements are not available, use those specified in UL 486A and UL 486B.
- E. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by manufacturer of connectors. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.
- F. Moisture Protection: Where insulated grounding conductors are connected to grounding rods or grounding buses, insulate entire area of connection and seal against moisture penetration of insulation and cable.

3.04 FIELD QUALITY CONTROL

- A. Tests: Subject the completed grounding system to a megger test at each location where a maximum ground-resistance level is specified, and at service disconnect enclosure grounding terminal. Measure ground resistance not less than 2 full days after the last trace of precipitation, and without the soil being moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural ground resistance. Perform tests by the 2-point method according to IEEE 81.
- B. Maximum grounding to resistance values are as follows:
 - 1. Equipment Rated 500 kVA and Less: 10 ohms.
- C. Excessive Ground Resistance: Where resistance to ground exceeds specified values, notify Owner promptly and include recommendations to reduce ground resistance and to accomplish recommended work.
- D. Report: Prepare test reports of ground resistance at each test location. Include observations of weather and other phenomena that may affect test results. Describe measures taken to improve test results.

3.05 ADJUSTING AND CLEANING

- A. Restore surface features, including vegetation, at areas disturbed by work of this Section. Reestablish original grades, except as otherwise indicated. Where sod has been removed, replace it as soon as possible after backfilling is completed. Restore areas disturbed by trenching, storing of dirt, cable laying, and other activities to their original condition. Include top soiling, fertilizing, liming, seeding, sodding, sprigging, and mulching. Maintain restored surfaces. Restore disturbed paving as indicated.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 0533

RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Division 26 Section 260510 – Basic Electrical Materials and Methods.
- C. Division 26 Section 262726 – Wiring Devices.

1.02 SUMMARY

- A. All areas of the project shall be considered outdoors, exterior, and wet location except for inside the VTC Building. The covered bus shelters, parking lots, and area driveways are all wet location, exterior, outdoor spaces.
- B. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.
 - 1. Raceways include the following:
 - a. EMT.
 - b. FMC.
 - c. IMC.
 - d. LFNC.
 - e. RMC.
 - f. RNC.
 - 2. Boxes, enclosures, and cabinets include the following:
 - a. Device boxes.
 - b. Outlet boxes.
 - c. Pull and junction boxes.
 - d. Cabinets and hinged-cover enclosures.

1.03 DEFINITIONS

- A. EMT: Electrical metallic tubing.
- B. FMC: Flexible metal conduit.
- C. IMC: Intermediate metal conduit.
- D. LFNC: Liquidtight flexible nonmetallic conduit.
- E. RMC: Rigid metal conduit.
- F. RNC: Rigid nonmetallic conduit.

1.04 SUBMITTALS

SPECIAL PROVISIONS

- A. Product Data: For raceways and fittings, boxes, hinged-cover enclosures, and cabinets. Product data to include, but not limited to, materials, finishes, approvals, load ratings, and dimensional information.

1.05 QUALITY ASSURANCE

- A. Listing and Labeling: Provide raceways and boxes specified in this Section that are listed and labeled.
 - 1. The Terms "Listed" and "Labeled": As defined in NFPA 70, Article 100.
 - 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" as defined in OSHA Regulation 1910.7.
- B. Comply with NECA's "Standard of Installation."
- C. Comply with NFPA 70.
- D. Comply with ANSI/TIA/EIA 568A – Commercial Building Telecommunications Cabling Standard, and ANSI/TIA/EIA 569 – Commercial Building Standard for Telecommunications Pathways and Spaces.
- E. NEMA Compliance: Comply with applicable requirements of NEMA standards pertaining to raceways and boxes.

1.06 COORDINATION

- A. Coordinate layout and installation of raceways and boxes with other construction elements to ensure adequate headroom, working clearance, and access.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Metal Conduit and Tubing:
 - a. Carol Cable Co., Inc.
 - b. Grinnell Co.; Allied Tube and Conduit Div.
 - c. Monogram Co.; AFC.
 - d. Triangle PWC, Inc.
 - 2. Nonmetallic Conduit and Tubing:
 - a. Duraline.
 - b. STI Firestopper.
 - 3. Conduit Bodies and Fittings:
 - a. American Electric; Construction Materials Group.
 - b. Crouse-Hinds; Div. of Cooper Industries.
 - c. Emerson Electric Co.; Appleton Electric Co.

SPECIAL PROVISIONS

- d. Hubbell, Inc.; Killark Electric Manufacturing Co.
- e. Lamson & Sessions; Carlon Electrical Products.
- f. O-Z/Gedney; Unit of General Signal.
- g. ETCO Speciality Products, Inc.
- 4. Boxes, Enclosures, and Cabinets:
 - a. Butler Manufacturing Co.; Walker Division.
 - b. Crouse-Hinds; Div. of Cooper Industries.
 - c. Hoffman Engineering Co.; Federal-Hoffman, Inc.
 - d. O-Z/Gedney; Unit of General Signal.
 - e. Robroy Industries, Inc.; Electrical Division.
 - f. Thomas & Betts Corp.

2.02 METAL CONDUIT AND TUBING

- A. EMT and Fittings: ANSI C80.3.
 - 1. Fittings: compression type.
- B. FMC: Steel flexible conduit per applicable ANSI and NEMA standards. Flexible metal conduit shall conform to UL1. It shall be formed from continuous lengths of spirally-wound, interlocked zinc-coated strip steel.
- C. IMC: ANSI C80.6.
- D. RMC: Rigid Steel Conduit: ANSI C80.1. Rigid steel conduit shall be hot-dipped galvanized.
- E. Fittings: NEMA FB 1; compatible with conduit/tubing materials.
- F. Fittings for Rigid Steel Conduit: Hot Dipped Galvanized Steel. Provide rain-tight, non-insulated throat type steel compression fittings (connectors and couplings). All fittings shall be the steel type with steel locknuts.
- G. Expansion Joints: Provide expansion fittings, O.Z. Type AX with bonding jumper for rigid conduit and O.Z. Type TX with bonding jumper for electrical metallic tubing. Where embedded raceways cross building expansion joints, provide combination deflection/expansion fittings, O.Z. Type AXDX, or equal.

2.03 NONMETALLIC CONDUIT AND TUBING

- A. RNC: Schedule 40 or 80 PVC per NEMA TC 2.
- B. RNC Fittings: Use rigid steel elbows when using PVC conduit. Use fittings with integral cable grips for all terminations of LFNC.
- D. LFNC: Non-metallic flexible conduit. Liquid tight with stainless steel or internal galvanized spiral steel. Non-metallic flexible conduit with rigid internal PVC core and overall PVC jacket is also acceptable. Provide fittings with integral cable grips for all terminations of LFNC.

2.04 OUTLET AND DEVICE BOXES

- A. Sheet Metal Boxes: NEMA OS 1. Indoor uses only.

SPECIAL PROVISIONS

- B. Cast-Metal Boxes: NEMA FB 1, Type FSC, cast box with gasketed cover. Hot Dipped Galvanized Steel.
- C. Nonmetallic Boxes: NEMA OS 2.

2.05 PULL AND JUNCTION BOXES

- A. Small Sheet Metal Boxes: NEMA OS 1.
- B. Cast-Metal Boxes: NEMA FB 1, cast aluminum with gasketed cover.
- C. All boxes installed outside of the building interior shall be hot-dipped galvanized cast steel boxes Or NEMA Type 4X 316L stainless steel. Confirm to the type callouts in the plansets.
- D. All conduit bodies shall be malleable iron.

2.06 ENCLOSURES AND CABINETS

- A. Inside buildings. NEMA 250, Type 1, galvanized steel box with removable interior panel and removable front, finished inside and out with manufacturer's standard enamel. Hinged door in front cover with flush latch and concealed hinge. Key latch to match panelboards. Include metal barriers to separate wiring of different systems and voltage, and include accessory feet where required for freestanding equipment.
- B. Exterior: NEMA 4X. All enclosures and cabinets shall be NEMA 4X type 316L stainless steel. Removable interior panel. Hinged. Lockable with pad lock.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine surfaces to receive raceways, boxes, enclosures, and cabinets for compliance with installation tolerances and other conditions affecting performance of raceway installation. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.02 WIRING METHODS

- A. Outdoors: Use the following wiring methods:
 - 1. Exposed: Rigid steel
 - 2. Concealed: Rigid steel.
 - 3. Underground, Single Run: RNC or Rigid Steel. Rigid Steel when within 5' of buildings or other structures including canopies and equipment foundations.
 - 4. Underground, Grouped: RNC or Rigid Steel. Rigid Steel when within 5' of buildings or other structure including canopies and equipment foundations.
 - 5. Underground, spare conduit: Rigid Steel or RNC.
 - 6. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFNC.
 - 7. Boxes and Enclosures: NEMA 250, Type 4X, 316L stainless steel or hot-dipped galvanized steel.
 - 8. Under concrete slab: RNC or Rigid Steel.

SPECIAL PROVISIONS

- B. Indoors: Use the following wiring methods:
 - 1. Exposed or concealed in buildings: EMT or IMC.
 - 2. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): FMC; except in wet or damp locations, use LFNC.
 - 4. Boxes and Enclosures: NEMA 250, Type 1, except as follows:
 - a. Damp or Wet Locations: NEMA 250, Type 4X, 316 stainless steel or hot-dipped galvanized steel. Type NM boxes may also be used with Schedule 40 and Schedule 80 PVC conduit.

3.03 INSTALLATION

- A. Install raceways, boxes, enclosures, and cabinets as indicated, according to manufacturer's written instructions.
- B. Minimum Raceway Size: 3/4-inch trade size (DN16).
- C. Conceal conduit where possible by routing it below building or inside walls. All conduit may be surface mounted if necessary. Partially conceal conduit surface mounted in exterior locations and outdoor structures. Locate pullboxes, j-boxes, and device and outlet boxes along the outdoor structures partially concealed and out of public view as much as practical.
- D. Keep raceways at least 6 inches (150 mm) away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.
- E. Install raceways level and square and at proper elevations. Provide adequate headroom.
- F. Complete raceway installation before starting conductor installation.
- G. Support raceways as specified in Division 26 Section 260510 Basic Electrical Materials and Methods.
- H. Use temporary closures to prevent foreign matter from entering raceways.
- I. Protect stub-ups from damage where conduits rise through floor slabs. Arrange so curved portion of bends is not visible above the finished slab.
- J. Make bends and offsets so ID is not reduced. Keep legs of bends in the same plane and straight legs of offsets parallel, unless otherwise indicated.
- K. Use raceway fittings compatible with raceways and suitable for use and location. For intermediate steel conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
- L. Raceways underground beneath Slabs: Do not install conduit in the slab. Conduit may be installed under the slab. This is preferable to installing it in the walls. Install all home runs from panels, lighting contactors, low voltage systems, under the slab if practical. This shall be done so that additional wiring can be easily pulled in the future. Home runs to the covered area around the waiting building is routed above the ceiling and along the structure as shown on plans.
 - 1. Locate conduit at least 4 inches below slab. Cover conduit with pit run, D-1, sand, or pea gravel.
 - 2. Locate the conduit 2 inches apart laterally and 2 inches apart vertically under the slab.

SPECIAL PROVISIONS

3. Run conduit parallel and perpendicular to the stem walls.
 4. Transition from nonmetallic tubing to rigid steel conduit before rising above floor.
 5. Where conduit must be embedded in concrete, provide minimum of 2" of concrete cover.
- M. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
1. Run parallel or banked raceways together, on common supports where practical.
 2. Make bends in parallel or banked runs from same centerline to make bends parallel. Use factory elbows only where elbows can be installed parallel; otherwise, provide field bends for parallel raceways.
- N. Join raceways with fittings designed and approved for the purpose and make joints tight.
1. Make raceway terminations tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight.
 2. Use insulating bushings to protect conductors.
- O. Tighten compression fittings with suitable tools.
- P. Terminations: Where raceways are terminated with locknuts and bushings, align raceways to enter squarely and install locknuts with dished part against the box. Where terminations are not secure with 1 locknut, use 2 locknuts: 1 inside and 1 outside the box.
- Q. Where raceways are terminated with threaded hubs, screw raceways or fittings tightly into the hub so the end bears against the wire protection shoulder. Where chase nipples are used, align raceways so the coupling is square to the box and tighten the chase nipple so no threads are exposed.
- R. Install pull wires in all empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line with not less than 200-lb (90-kg) tensile strength. Leave at least 12 inches (300 mm) of slack at each end of the pull wire.
- T. Install raceway sealing fittings according to manufacturer's written instructions. Locate fittings at suitable, approved, and accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Install raceway sealing fittings at the following points:
1. Where conduits pass from warm to cold locations, such as the boundaries of refrigerated spaces.
 2. Where otherwise required by NFPA 70.
- U. Stub-up Connections: Extend conduits through concrete or structure with RMC. See applicable details. Coordinate with contractor installing concrete. Where there are no details, install conduit as close and concealed to the structure above the concrete slab or footing as possible. Locate to protect from physical damage as much as possible. Add a NEMA 4X enclosure as required to reduce conduit size from underground to above ground conduit.
- V. Flexible Connections: Use maximum of 6 feet (1830 mm) of flexible conduit for recessed and semirecessed lighting fixtures; for equipment subject to vibration, noise transmission, or

SPECIAL PROVISIONS

movement; and for all motors. Use liquidtight flexible conduit in wet or damp locations. Install separate ground conductor across flexible connections.

- W. Provide additional junction boxes, pull boxes, conduit bodies, fittings, etc. as required to route conduit. Where conduit is to be routed around structural columns, beams, concrete footings, etc., providing bends as required to route conduit as close to structure as possible so it is as concealed as possible. This will require extra bends, boxes, conduit bodies, etc. Review structural, architectural, mechanical, etc. drawings to understand these systems and to be able to determine the level of work required. In some cases, flexible conduit may be required between runs of conduit to get around structure or to transition between structural elements. Plan that into the work.
- X. Provide labels on covers of all j-boxes, pullboxes, and device boxes that indicate panel circuit information and voltage of circuits contained within. For covers exposed or partially exposed, write labels on inside face of cover. Write with permanent marker or equivalent.

3.04 PROTECTION

- A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure coatings, finishes, and cabinets are without damage or deterioration at the time of Substantial Completion.
 - 1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
- B. Repair damage to paint finishes with matching touchup coating recommended by manufacturer

3.05 CLEANING

- A. On completion of installation, including outlet fittings and devices, inspect exposed finish. Remove burrs, dirt, and construction debris and repair damaged finish, including chips, scratches, and abrasions.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 0553 IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL SUMMARY

- A. Section Includes:
 - 1. Identification for raceways.
 - 2. Identification of power and control cables.
 - 3. Identification for conductors.
 - 4. Underground-line warning tape.
 - 5. Warning labels and signs.
 - 6. Instruction signs.
 - 7. Equipment identification labels, including arc-flash warning labels.
 - 8. Miscellaneous identification products.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Delegated-Design Submittal: For arc-flash hazard study.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Comply with ASME A13.1 and IEEE C2.
- B. Comply with NFPA 70.
- C. Comply with 29 CFR 1910.144 and 29 CFR 1910.145.
- D. Comply with ANSI Z535.4 for safety signs and labels.
- E. Adhesive-attached labeling materials, including label stocks, laminating adhesives, and inks used by label printers, shall comply with UL 969.

2.2 COLOR AND LEGEND REQUIREMENTS

- A. Warning labels and signs shall include, but are not limited to, the following legends:
 - 1. Multiple Power Source Warning: "DANGER - ELECTRICAL SHOCK HAZARD - EQUIPMENT HAS MULTIPLE POWER SOURCES."
 - 2. Workspace Clearance Warning: "WARNING - OSHA REGULATION - AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR 36 INCHES."

2.3 LABELS

- A. Self-Adhesive Labels:
 - 1. **Write-on**, 3-mil- thick, **polyester** flexible label with acrylic pressure-sensitive adhesive.

2.4 TAPES AND STENCILS:

- A. Underground-Line Warning Tape
 - 1. Tape:

SPECIAL PROVISIONS

- a. Recommended by manufacturer for the method of installation and suitable to identify and locate underground electrical utility lines.
 - b. Printing on tape shall be permanent and shall not be damaged by burial operations.
 - c. Tape material and ink shall be chemically inert and not subject to degradation when exposed to acids, alkalis, and other destructive substances commonly found in soils.
 - d. Detectable three-layer laminate, consisting of a printed pigmented polyolefin film, a solid aluminum-foil core, and a clear protective film that allows inspection of the continuity of the conductive core; bright colored, compounded for direct-burial service
 - e. Width: 5 inches.
 - f. Overall Thickness: 5 mils.
 - g. Foil Core Thickness: 0.35 mil.
 - h. Weight: 28 lb/1000 sq. ft..
 - i. Tensile according to ASTM D 882: 70 lbf and 4600 psi.
2. Color and Printing:
 - a. Comply with ANSI Z535.1, ANSI Z535.2, ANSI Z535.3, ANSI Z535.4, and ANSI Z535.5.
 - b. Inscriptions for Red-Colored Tapes: "ELECTRIC LINE, HIGH VOLTAGE" Insert drawing designation in three "Tag" subparagraphs below. Use these designations on Drawings to identify each product.

2.5 SIGNS

- A. Baked-Enamel Signs:
 1. Preprinted aluminum signs, punched or drilled for fasteners, with colors, legend, and size required for application.
 2. 1/4-inch grommets in corners for mounting.
 3. Nominal Size: 7 by 10 inches.

2.6 CABLE TIES

- A. UV-Stabilized Cable Ties: Fungus inert, designed for continuous exposure to exterior sunlight, self-extinguishing, one piece, self-locking, Type 6/6 nylon.
 1. Minimum Width: 3/16 inch.
 2. Tensile Strength at 73 deg F according to ASTM D 638: 12,000 psi.
 3. Temperature Range: Minus 40 to plus 185 deg F.
 4. Color: Black.

2.7 MISCELLANEOUS IDENTIFICATION PRODUCTS

- A. Fasteners for Labels and Signs: Self-tapping, stainless-steel screws or stainless-steel machine screws with nuts and flat and lock washers.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install identification materials and devices at locations for most convenient viewing without interference with operation and maintenance of equipment.

SPECIAL PROVISIONS

- B. Apply identification devices to surfaces that require finish after completing finish work.
- C. Attach signs and plastic labels that are not self-adhesive type with mechanical fasteners appropriate to the location and substrate.
- D. Attach plastic raceway and cable labels that are not self-adhesive type with clear vinyl tape, with adhesive appropriate to the location and substrate.
- E. Cable Ties: For attaching tags. Use general-purpose type, except as listed below:
 - 1. Outdoors: UV-stabilized nylon.
- F. During backfilling of trenches, install continuous underground-line warning tape directly above cable or raceway at 6 to 8 inches below finished grade. Use multiple tapes where width of multiple lines installed in a common trench exceeds 16 inches overall.

3.2 IDENTIFICATION SCHEDULE

- A. Power-Circuit Conductor Identification, 600 V or Less: For conductors in vaults, pull and junction boxes, manholes, and handholes, use color-coding conductor tape to identify the phase.
 - 1. Color-Coding for Phase-and Voltage-Level Identification, 600 V or Less: Use industry standard colors for ungrounded service, feeder and branch-circuit conductors.
 - a. Field-Applied, Color-Coding Conductor Tape: Apply in half-lapped turns for a minimum distance of 6 inches from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.
- B. Control-Circuit Conductor Identification: For conductors and cables in pull and junction boxes, manholes, and handholes, use write-on tags with the conductor or cable designation, origin, and destination.
- C. Conductors to Be Extended in the Future: Attach write-on tags to conductors and list source.
- D. Auxiliary Electrical Systems Conductor Identification: Identify field-installed alarm, control, and signal connections.
 - 1. Identify conductors, cables, and terminals in enclosures and at junctions, terminals, and pull points. Identify by system and circuit designation.
 - 2. Use system of marker-tape designations that is uniform and consistent with system used by manufacturer for factory-installed connections.
 - 3. Coordinate identification with Project Drawings, manufacturer's wiring diagrams, and operation and maintenance manual.
- E. Locations of Underground Lines: Identify with underground-line warning tape for power, lighting, communication, and control wiring and optical-fiber cable.
 - 1. Limit use of underground-line warning tape to direct-buried cables.
 - 2. Install underground-line warning tape for direct-buried cables and cables in raceways.
- F. Arc Flash Warning Labeling: Self-adhesive thermal transfer vinyl labels.
 - 1. Comply with NFPA 70E and ANSI Z535.4.
 - 2. Comply with Section 260574 "Overcurrent Protective Device Arc-Flash Study" requirements for arc-flash warning labels.

SPECIAL PROVISIONS

- G. Operating Instruction Signs: Install instruction signs to facilitate proper operation and maintenance of electrical systems and items to which they connect. Install instruction signs with approved legend where instructions are needed for system or equipment operation.
- H. Equipment Identification Labels: On each unit of equipment, install unique designation label that is consistent with wiring diagrams, schedules, and operation and maintenance manual.
 - 1. Labeling Instructions:
 - a. Outdoor Equipment: Engraved, laminated acrylic or melamine label 4 inches high.
 - b. Elevated Components: Increase sizes of labels and letters to those appropriate for viewing from the floor.
 - c. Unless labels are provided with self-adhesive means of attachment, fasten them with appropriate mechanical fasteners that do not change the NEMA or NRTL rating of the enclosure.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 2416

PANELBOARDS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Division 26 Section 260510 – Basic Electrical Materials and Methods.
- C. Division 26 Section 264313 – Surge Protective Devices.

1.02 SUMMARY

- A. This Section includes lighting and power panelboards and associated auxiliary equipment rated 600 V and less.

1.03 SUBMITTALS

- A. Product Data: For each type of panelboard, accessory item, and component specified.
- B. Panelboard Schedules: For installation in panelboards. Submit final versions after load balancing.
- C. Shop Drawings: Submit dimensioned drawings of panelboards and enclosures showing accurately scaled layouts of enclosures and required individual panelboard devices, including but not limited to circuit breakers, fusible switches, fuses, ground fault circuit interrupters, and accessories.
- D. Maintenance Data: For panelboard components to include in the maintenance manuals specified in Division 1. Include manufacturer's written instructions for testing circuit breakers.
- E. Field Test Reports.
- F. General: Submit each item in this Article according to the Conditions of Section 01300 – CONTRACTOR Submittals.

1.04 QUALITY ASSURANCE

- A. Listing and Labeling: Provide products specified in this Section that are listed and labeled.
 - 1. The Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.
 - 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" as defined in OSHA Regulation 1910.7.
- B. Comply with NFPA 70.
- C. Comply with NEMA PB 1.
- D. Manufacturers: Firms regularly engaged in the manufacture of panelboards and enclosures, of types, size and ratings required, whose products have been in satisfactory use in similar service for not less than five (5) years.

SPECIAL PROVISIONS

- E. Installer: A firm of at least three (3) years of successful installation experience on projects with electrical installation work similar to that required for this project.
- F. Special Use Markings: Provide panelboards, constructed for special use, with UL markings indicating that special type usage. Panels identified or shown on the drawings for use as main service entrance equipment shall be labeled at the factory with "SERVICE ENTRANCE" type UL label.
- G. UL Compliance: Comply with applicable UL safety standards pertaining to panelboards, accessories, and enclosures. Provide units which have been UL listed and labeled. UL standards are as follows:
 - 1. Panelboards - UL67
 - 2. Enclosures for Electrical Equipment - UL50
- H. NEMA Compliance: Comply with NEMA Stds. Pub. No. 250 "Enclosures for Electrical Equipment (1000 volt maximum)", Pub. No. 1 "Panelboards" and Pub. No. PB1.1, "Instruction for Safe Installation, Operation, and Maintenance of Panelboards Rates 600 Volts and Less".
- I. NECA Compliance: Comply with NECA's "Standard of Installation".

1.05 EXTRA MATERIALS

- A. Keys: 6 spares of each type for panelboard cabinet lock.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Eaton Corp.; Westinghouse & Cutler-Hammer Products.
 - 2. General Electric Co.; Electrical Distribution & Control Div.
 - 3. Siemens Energy & Automation, Inc.
 - 4. Square D Co.

2.02 PANELBOARD FABRICATION

- A. Except as otherwise indicated, provide panelboards, enclosures and ancillary components, of types, sizes, and ratings indicated, which comply with manufacturer's standard materials, and which are designed and constructed in accordance with published product information. Provide solderless lugs, or connectors, in the correct number and size for conductors on mains, on the load side of each branch, circuit, and on ground and neutral bars. Provide tin plated copper busses. Provide an insulated neutral bus (equal in size to the phase bussing) and a bonded equipment ground bus mounted at the opposite end of the structure from the mains, and having numbered screw or lug terminals for connection of wires. Equip panels with the number of unit devices as required for a complete installation. Where more than one type of component meets the indicated requirements, selection is installer's option. Where types, sizes or ratings are not indicated, comply with NEC, UL and established industry standards for applications indicated.

SPECIAL PROVISIONS

- B. Enclosures: Flush- or surface-mounted cabinets as indicated. NEMA PB 1, Type 1, unless otherwise indicated to meet environmental conditions at installed location.
 - 1. Outdoor Locations: NEMA 250, Type 4X stainless steel.
 - 2. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
- C. Front: Secured to box with concealed trim clamps, unless otherwise indicated. Front for surface-mounted panelboards shall be same dimensions as box. Fronts for flush panelboards shall overlap box, unless otherwise indicated.
- D. Directory Frame: Metal, mounted inside each panelboard door.
- E. Bus: Hard drawn copper of 98 percent conductivity.
- F. Panelboards shall be constructed for top or bottom feeder service, as required by actual project conditions.
- G. Main and Neutral Lugs: Compression type.
- H. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment ground conductors. Bonded to box.
- I. Service Equipment Approval: Listed for use as service equipment for MDP panelboard.
- J. Future Devices: Equip with mounting brackets, bus connections, and necessary appurtenances, for the overcurrent protective device ampere ratings indicated for future installation of devices.

2.03 BRANCH-CIRCUIT PANELBOARDS

- A. Branch Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.
- B. Doors: In panelboard front, with concealed hinges. Secure with flush catch and tumbler lock, all keyed alike.
- C. Provide Amps Interrupting Current (AIC) Rating as shown on the drawings. AIC rating shall include entire panelboard and circuit breakers.
- D. Provide fully rated main circuit breaker type panelboards, where the short circuit rating of the complete panelboard assembly is determined by the lowest rated branch device. Provide panelboard interrupting ratings as noted on the drawings.
- E. Provide fully rated main lug only type panelboards where the short circuit rating of the complete panelboard assembly is determined by the lowest rated branch device. Provide panelboard interrupting ratings as noted on the drawings.
- F. Panelboard boxes shall have 6-inch minimum gutters. Fronts are to be complete with door and cylinder lock, with all locks keyed alike. Fronts shall have adjustable trim clamps, directory frames, and shall be equipped with a typewritten directory that identifies each circuit breaker by number and the equipment that the breaker serves. One additional blank directory card for each panel shall be furnished to the Owner.
- G. Two section panels shall be equipped with boxes of equal dimensions

SPECIAL PROVISIONS

- H. Panelboards shall be Underwriters' Laboratory listed and shall bear the UL label. The size of the panelboard main disconnect device or main lugs, the rating and number of branch circuits, and the type of mounting shall be as shown on the drawings.
- I. All factory installed devices shall be re-torqued prior to energizing.

2.05 OVERCURRENT PROTECTIVE DEVICES

- A. Molded-Case Circuit Breaker: NEMA AB 1, handle lockable.
 - 1. Characteristics: Frame size, trip rating, number of poles, and auxiliary devices as indicated and interrupting capacity rating to meet available fault current.
 - 2. Application Listing: Appropriate for application, including Type SWD for switching fluorescent lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
 - 3. Circuit Breakers, 200 A and Larger: Trip units interchangeable within frame size.
 - 5. Current-Limiting Trips: Where indicated, let-through ratings less than NEMA FU 1, Class RK-5.
 - 6. Current Limiters: Where indicated, integral fuse listed for circuit breaker.
 - 7. Lugs: Mechanical lugs and power-distribution connectors for number, size, and material of conductors indicated.
 - 8. Shunt Trip: Where indicated.
 - 9. GFCI Trip: Where indicated.
 - 10. Lockable: Where indicated.

2.06 TRANSIENT VOLTAGE SURGE SUPPRESSORS (SPD)

- A. Surge protection devices (SPD) shall be provided at panelboards as noted in the planset. SPDs provided for panel boards shall adhere to requirements found within Division 26 Section 264313 Surge Protective Devices.
- B. Factory mounted with UL-recognized mounting device. Externally mounted will be considered if verification of adequate space along the wall is obtained.
- C. Feed with circuit breaker mounted in panel, sized accordingly.

2.07 ACCESSORY COMPONENTS AND FEATURES

- A. Accessory Set: Include tools and miscellaneous items as required for overcurrent protective device test, inspection, maintenance, and operation.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install panelboards and accessory items according to NEMA PB 1.1.
- B. General: Install panelboards and enclosures where indicated, in accordance with the manufacturers' written instructions, applicable requirements of the NEC and NECA's "Standard of Installation", and in compliance with recognized industry practices to ensure that products fulfill requirements.

SPECIAL PROVISIONS

- C. Mounting Heights: Top of trim 74 inches (1880 mm) above finished floor, unless otherwise indicated.
- D. Mounting: Plumb and rigid without distortion of box. Mount flush panelboards uniformly flush with wall finish.
- E. Circuit Directory: Type directory to indicate installed circuit loads after balancing panelboard loads. Obtain approval before installing.
- F. Install filler plates in unused spaces.
- G. Wiring in Panelboard Gutters: Arrange conductors into groups, and bundle and wrap with wire ties after completing load balancing.
- H. Neatly train wiring in switchboard. Bend conductors per their manufacturer's recommendations and listing requirements. Feeder conductors that are bent at a hard ninety degree angle shall be replaced.
- I. Coordinate the installation of panelboards and enclosures with cable and raceway work.
- J. Provide all required electrical connections within the enclosure.

3.02 IDENTIFICATION

- A. Identify field-installed wiring and components and provide warning signs as specified in Division 26 Section 260510 – Basic Electrical Materials and Methods.
- B. Panelboard Nameplates: Label each panelboard with engraved laminated-plastic or metal nameplates mounted with corrosion-resistant screws.

3.03 GROUNDING

- A. Make equipment grounding connections for panelboards as indicated.

3.04 CONNECTIONS

- A. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

3.05 FIELD QUALITY CONTROL

- A. Prepare for acceptance tests as follows:
 - 1. Make insulation-resistance tests of each panelboard bus, component, and connecting supply, feeder, and control circuits.
 - 2. Make continuity tests of each circuit.
- B. Testing: After installing panelboards and after electrical circuitry has been energized, demonstrate product capability and compliance with requirements.
 - 1. Procedures: Perform each visual and mechanical inspection and electrical test stated in NETA ATS, Section 7.5 for switches and Section 7.6 for molded-case circuit breakers. Certify compliance with test parameters.
 - 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, remove and replace with new units, and retest.

SPECIAL PROVISIONS

3.06 ADJUSTING

- A. Set field-adjustable switches and circuit-breaker trip ranges as indicated.

3.07 CLEANING

- A. On completion of installation, inspect interior and exterior of panelboards. Remove paint splatters and other spots, dirt, and debris. Touch up scratches and mars of finish to match original finish.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 2713 ELECTRICITY METERING

PART 1 GENERAL

3.3 1.01 SUMMARY

- A. Section includes equipment for electricity metering by utility company.

3.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Dimensioned plans and sections or elevation layouts and wiring diagrams.

3.5 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.

3.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data. In addition to items specified in Section 017823 "Operation and Maintenance Data."

3.7 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

PART 4 - PRODUCTS

4.1 EQUIPMENT FOR ELECTRICITY METERING BY UTILITY COMPANY

- A. Meters will be furnished by utility company.
- B. Current-Transformer Cabinets: Comply with requirements of electrical-power utility company.
- C. Meter Sockets: Comply with requirements of electrical-power utility company.
- D. Meter Sockets: Steady-state and short-circuit current ratings shall meet indicated circuit ratings.

PART 5 - EXECUTION

5.1 INSTALLATION

- A. Comply with equipment installation requirements in NECA 1.
- B. Install meters furnished by utility company. Install raceways and equipment according to utility company's written requirements. Provide empty conduits for metering leads and extend grounding connections as required by utility company.
- C. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."
 - 1. Series Combination Warning Label: Self-adhesive type, with text as required by NFPA 70.
 - 2. Equipment Identification Labels: Adhesive film labels with clear protective overlay. For residential meters, provide an additional card holder suitable for printed, weather-resistant card with occupant's name.

SPECIAL PROVISIONS

5.2 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
- B. Tests and Inspections:
 - 1. Connect a load of known kilowatt rating, **1.5 kW** minimum, to a circuit supplied by metered feeder.
 - 2. Turn off circuits supplied by metered feeder and secure them in off condition.
 - 3. Run test load continuously for eight hours minimum, or longer, to obtain a measurable meter indication. Use test-load placement and setting that ensures continuous, safe operation.
 - 4. Check and record meter reading at end of test period and compare with actual electricity used, based on test-load rating, duration of test, and sample measurements of supply voltage at test-load connection. Record test results.
- C. Electricity metering will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 2726

WIRING DEVICES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Division 26 Section 260510 – Basic Electrical Materials and Methods.
- C. Division 26 Section 260533 – Raceways and Boxes for Electrical Systems.

1.02 SUMMARY

- A. This Section includes receptacles, connectors, switches, and finish plates.

1.03 SUBMITTALS

- A. Product Data: For each product specified.
- B. General: Submit each item in this Article according to the Conditions of Section 01300 – CONTRACTOR Submittals.

1.04 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- B. Comply with NEMA WD 1.
- C. Comply with NFPA 70.
- D. Manufacturers: Firms regularly engaged in manufacture of wiring devices of types, sizes, and ratings required, whose products have been in satisfactory use in similar service for not less than 3 years.
- E. Installer: Qualified with at least 2 years of successful installation experience on projects with electrical installation work similar to that required for this project.
- F. UL Compliance and Labeling: Provide electrical wiring devices which have been UL listed and labeled.
- G. NEMA Compliance: Comply with NEMA standards for general and specific purpose wiring devices.
- H. NECA Compliance: Comply with NECA's "Standard of Installation."

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the WORK include, but are not limited to, the following:
 - 1. Wiring Devices:

SPECIAL PROVISIONS

- a. Bryant Electric, Inc.
- b. GE Company; GE Wiring Devices.
- c. Hubbell, Inc.; Wiring Devices Div.
- d. Leviton Manufacturing Co., Inc.
- e. Pass & Seymour/Legrand; Wiring Devices Div.
- f. Cooper
- g. Crouse Hinds

2.02 RECEPTACLES

- A. Straight-Blade and Locking Receptacles: Heavy-Duty grade. 120 volt, 20 amp rated, minimum.
- B. GFI Receptacles: Provide receptacles with UL listed 5mA ground fault interrupting protection with test and reset buttons. Provide receptacle with green LED indicating light that is illuminated when power is available to receptacle. LED shall go off when receptacle has tripped due to a ground fault current. C. Receptacles on generator power shall be red in color. Coverplates for generator outlets in these areas shall be engraved with panel and circuit no. designation per NEC. Engraving shall be 1/8" high, block style letters, with red filler on front side of coverplates.

2.03 SWITCHES

- A. Snap Switches: Heavy-duty, quiet type. 120 volt, 20 amp rated, minimum.

2.04 WALL PLATES

- A. Single and combination types match corresponding wiring devices.
 - 1. Material for all spaces: Stainless steel.
 - 2. Provide weatherproof covers for all devices. While-In-Use style where noted.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install devices and assemblies plumb and secure.
- B. Install wall plates when painting is complete.
- C. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical, and grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.
- D. Protect devices and assemblies during painting.
- E. Provide weatherproof covers for all devices in existing and new bus storage areas, bus wash, bus wash mechanical, and exterior of building.
- F. Install wiring devices as indicated in compliance with manufacturer's written instructions, applicable requirements of the NEC and NECA's "Standard of Installation," and in accordance with recognized industry practices to fulfill project requirements.
- G. Coordinate with other work including painting, electrical boxes and wiring work, as necessary to interface installation of wiring devices and other work.

SPECIAL PROVISIONS

- H. All outlets shall be located as shown on the drawings, except that where practicable, outlets shall be located in center of panels or trim or otherwise symmetrically located to conform with existing structural layout. Outlets incorrectly installed shall be corrected. Damaged items or damaged finishes shall be repaired or replaced at no expense to the Owner.
- I. Receptacles, switches, etc., shown on wood trim, cases or other fixtures shall be installed symmetrically; and, where necessary, shall be set with the long dimensions of the plate horizontal, or ganged in tandem.
- J. Where devices are shown near wall openings, coordinate location if corner guards are to be installed so that cover plates do not require cutting.
- K. Where devices are shown mounted adjacent to one another on the drawings, provide multi-gang faceplates to cover all devices.

3.02 IDENTIFICATION

- A. Comply with Division 26 Section 260510 – Basic Electrical Material And Methods.
 - 1. Switches: Where three or more switches are ganged, and elsewhere as indicated, identify each switch with approved legend engraved on wall plate.
 - 2. Receptacles: Identify panelboard and circuit number from which served. Use machine-printed, pressure-sensitive, abrasion-resistant label tape on face of plate and durable wire markers or tags within outlet boxes.

3.03 CONNECTIONS

- A. Connect wiring device grounding terminal to branch-circuit equipment grounding conductor.
- B. Tighten electrical connectors and terminals according to manufacturers published torque-tightening values. If manufacturers torque values are not indicated, use those specified in UL 486A and UL 486B.

3.04 FIELD QUALITY CONTROL

- A. Test wiring devices for proper polarity and ground continuity. Operate each device at least six times.
- B. Replace damaged or defective components.

3.05 CLEANING

- A. Internally clean devices, device outlet boxes, and enclosures. Replace stained or improperly painted wall plates or devices.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 2813

FUSES

PART 6 - GENERAL SUMMARY

A. Section Includes:

1. Cartridge fuses rated 600 V ac and less for use in the following:
 - a. Enclosed switches.

6.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.

6.3 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

PART 7 - PRODUCTS

7.1 MANUFACTURERS

- A. Provide per drawings or approved equal.

7.2 CARTRIDGE FUSES

- A. Characteristics: NEMA FU 1, current-limiting, nonrenewable cartridge fuses with voltage ratings consistent with circuit voltages.
1. Type RK-1: 600-V, zero- to 600-A rating, 200 kAIC, time delay.
 2. Type RK-5: 600-V, zero- to 600-A rating, 200 kAIC time delay.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Comply with NEMA FU 1 for cartridge fuses.
- D. Comply with NFPA 70.
- E. Coordinate fuse ratings with utilization equipment nameplate limitations of maximum fuse size and with system short-circuit current levels.

PART 8 - EXECUTION

8.1 INSTALLATION

- A. Install fuses in fusible devices. Arrange fuses so rating information is readable without removing fuse.

8.2 IDENTIFICATION

- A. Install labels complying with requirements for identification specified in Section 260553 "Identification for Electrical Systems" and indicating fuse replacement information inside of door of each fused switch and adjacent to each fuse block, socket, and holder.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 2816

ENCLOSED SWITCHES AND CIRCUIT BREAKERS

PART 9 - GENERAL

9.1 SUMMARY

- A. Section Includes:
 - 1. Fusible switches.
 - 2. Nonfusible switches.
 - 3. Molded-case circuit breakers (MCCBs).
 - 4. Enclosures.

9.2 DEFINITIONS

- A. NC: Normally closed.
- B. NO: Normally open.
- C. SPDT: Single pole, double throw.

9.3 ACTION SUBMITTALS

- A. Product Data: For each type of enclosed switch, circuit breaker, accessory, and component indicated.
- B. Shop Drawings: For enclosed switches and circuit breakers. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Wiring Diagrams: For power, signal, and control wiring.

9.4 INFORMATIONAL SUBMITTALS

- A. Seismic Qualification Certificates: For enclosed switches and circuit breakers, accessories, and components, from manufacturer.
- B. Field quality-control reports.

9.5 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

9.6 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NFPA 70.

PART 10 - PRODUCTS

10.1 FUSIBLE SWITCHES

- A. Type HD, Heavy Duty, Single Throw, 600-V ac, 1200 A and Smaller: UL 98 and NEMA KS 1, horsepower rated, with clips or bolt pads to accommodate indicated fuses, lockable handle with capability to accept three padlocks, and interlocked with cover in closed position.
- B. Accessories:

SPECIAL PROVISIONS

1. Equipment Ground Kit: Internally mounted and labeled for copper and aluminum ground conductors.
2. Neutral Kit: Internally mounted; insulated, capable of being grounded and bonded; labeled for copper and aluminum neutral conductors.
3. Class R Fuse Kit: Provides rejection of other fuse types when Class R fuses are specified.
4. Lugs: Suitable for number, size, and conductor material.
5. Service-Rated Switches: Labeled for use as service equipment.

10.2 NONFUSIBLE SWITCHES

- A. Type HD, Heavy Duty, Single Throw, 600-V ac, 1200 A and Smaller: UL 98 and NEMA KS 1, horsepower rated, lockable handle with capability to accept three padlocks, and interlocked with cover in closed position.
- B. Accessories:
 1. Equipment Ground Kit: Internally mounted and labeled for copper and aluminum ground conductors.
 2. Neutral Kit: Internally mounted; insulated, capable of being grounded and bonded; labeled for copper and aluminum neutral conductors.
 3. Lugs: Suitable for number, size, and conductor material.

10.3 MOLDED-CASE CIRCUIT BREAKERS

- A. General Requirements: Comply with UL 489, NEMA AB 1, and NEMA AB 3, with interrupting capacity to comply with available fault currents.
- B. Thermal-Magnetic Circuit Breakers: Inverse time-current element for low-level overloads and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
- C. Electronic Trip Circuit Breakers: Field-replaceable rating plug, rms sensing, with the following field-adjustable settings:
 1. Instantaneous trip.
 2. Long- and short-time pickup levels.
 3. Long- and short-time time adjustments.
 4. Ground-fault pickup level, time delay, and I^2t response.
- D. Current-Limiting Circuit Breakers: Frame sizes 400 A and smaller, and let-through ratings less than NEMA FU 1, RK-5.
- E. Features and Accessories:
 1. Standard frame sizes, trip ratings, and number of poles.
 2. Lugs: Suitable for number, size, trip ratings, and conductor material.
 3. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HID for feeding fluorescent and high-intensity discharge lighting circuits.

10.4 ENCLOSURES

- A. Enclosed Switches and Circuit Breakers: NEMA AB 1, NEMA KS 1, NEMA 250, and UL 50, to comply with environmental conditions at installed location.
 1. Indoor, Dry and Clean Locations: NEMA 250, Type 1.
 2. Outdoor Locations: NEMA 250, Type 4X.

SPECIAL PROVISIONS

PART 11 - EXECUTION

11.1 INSTALLATION

- A. Install individual wall-mounted switches and circuit breakers with tops at uniform height unless otherwise indicated.
- B. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from enclosures and components.
- C. Install fuses in fusible devices.
- D. Comply with NECA 1.

11.2 IDENTIFICATION

- A. Comply with requirements in Section 260553 "Identification for Electrical Systems."
 - 1. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs.
 - 2. Label each enclosure with engraved metal or laminated-plastic nameplate.

11.3 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
- B. Acceptance Testing Preparation:
 - 1. Test insulation resistance for each enclosed switch and circuit breaker, component, connecting supply, feeder, and control circuit.
 - 2. Test continuity of each circuit.
- C. Tests and Inspections:
 - 1. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
 - 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
- D. Enclosed switches and circuit breakers will be considered defective if they do not pass tests and inspections.
- E. Prepare test and inspection reports, including a certified report that identifies enclosed switches and circuit breakers and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 4313

SURGE PROTECTIVE DEVICES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Division 26 Section 260510 – Basic Electrical Materials and Methods.
- C. Division 26 Section 262416 – Panelboards.
- D. LED light fixtures shall be provided with integral surge protection and additional external surge protection as applicable. Requirements of LED light fixture surge protection are provided in Division 26 Section 265600 Exterior Lighting.

1.02 SUMMARY

- A. This Section includes transient voltage surge suppressors for low-voltage circuits and equipment.
- B. Surge protection devices (SPD) shall be provided at all service entrances and switchboards, distribution panels, and as require of the project. Devices shall be suitable for use as Type 1 or Type 2 devices per UL 1449 4th Edition, applied to the line or load side of the utility feed inside the building as specified on the project. All SPDs shall be tested and demonstrated for suitability for application within ANSI/IEEE C62.41 Category C, B, and A installation environments.
- C. General: Submit each item in this Article according to the Conditions of Section 01300 – CONTRACTOR Submittals.

1.03 SYSTEM DESCRIPTION

- A. Transient voltage suppression for low-voltage distribution systems, with suppressors located at each major bus, including service entrances, feeders, and branch-circuit distribution equipment.
- B. System Exposure: IEEE C62.41, medium.

1.04 SUBMITTALS

- A. Product Data: Include rated capacities; shipping, installed, and operating weights; furnished specialties; and accessories for each model indicated.
- B. Field Test Reports: Indicate and interpret test results for compliance with performance requirements.
- C. Maintenance Data: For transient voltage surge suppressors to include in the maintenance manuals specified in Division 1.
- D. Documentation of the unit's UL 1449 suppression rating shall be included as required product data submittal information. Manufacturer shall make available upon request certified documentation of applicable Location Category Testing in full compliance with ANSI/IEEE C62.41-1991 and ANSI/IEEE C62.45-1987 guidelines.

SPECIAL PROVISIONS

- E. Copies of documentation stating that the Surge Protective Device is listed by UL to UL1449 current edition, 20kA in Type 1 or Type 2 locations for use in UL 96A systems. Additional test information to be available upon request.
- F. Copies of test reports from a recognized independent testing laboratory, capable of producing 200kA surge current waveforms, verifying the suppressor components can survive published surge current rating on a per mode basis using the ANSI/IEEE C62.41 impulse waveform C3 (8 x 20 The unit shall be factory tested and burned in at the applicable MCOV for a minimum of one hour.
- G. The unit shall be factory-tested before shipment. Testing of each unit shall include but shall not be limited to quality assurance, MCOV and clamping voltage verification tests.
- H. Documentation stating that the SPDs used are all listed by UL to UL1449 4th Edition.
- I. Warranties: Special warranties specified in this Section.

1.05 QUALITY ASSURANCE

- A. Listing and Labeling: Provide electrically operated equipment specified in this Section that is listed and labeled.
 - 1. The Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.
 - 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" as defined in OSHA Regulation 1910.7.
- B. Comply with NFPA 70.

1.06 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the OWNER of other rights the OWNER may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the CONTRACTOR under requirements of the Contract Documents.
- B. Special Warranty: A written warranty, executed by manufacturer, agreeing to repair or replace components of transient voltage surge suppressors that fail in materials or workmanship within the specified warranty period.
 - 1. Warranty Period: ten (10) years from date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Liebert, Inc.
 - 2. Transtector Systems, Inc.
 - 3. Leviton, Inc.
 - 4. Eaton
 - 5. Littlefuse
 - 6. SEC Co.

SPECIAL PROVISIONS

2.02 SPD GENERAL CONSTRUCTION REQUIREMENTS

- A. Functional Description: Solid-state, transient voltage surge suppressors employing no series-connected suppression components.
 - 1. Primary Suppression: The suppression system shall incorporate only thermally protected metal-oxide varistors (MOVs) as the core suppression component. The system shall not utilize silicon avalanche diodes, selenium cells, air gaps, or other such techniques. End of life mode to be open circuit, end of life short-circuit mode are not acceptable.
 - 2. SPDs shall feature balanced suppression platform that equally distributes surges to all MOV components to ensure equal stressing and maximum performance. The surge suppression platform must provide equal impedance paths to each matched MOV. Designs incorporating replaceable SPD modules shall not be accepted.
 - 3. All of the SPDs components and diagnostics shall be contained within one discrete assembly. The use of plug in single-mode modules that must be ganged together in order to achieve higher surge current ratings or other functionality shall not be accepted.
 - 4. The SPD shall minimize potential arc flash hazards by containing no single-mode plug in user serviceable/replaceable parts and shall not require periodic maintenance.
 - 5. SPDs designed to interface with the electrical assembly via conductors shall require no user contact with the inside of the unit. Such units shall have any required conductors be factory installed.
- B. Maintenance free design shall not require any user intervention throughout its life. SPDs containing such items as replaceable single-mode modules, replaceable fuses, or replaceable batteries shall not be accepted. SPDs requiring regular maintenance of any sort, including periodic tightening of connections shall not be accepted. SPDs requiring user intervention via diagnostic test kits or similar devices are not allowed.
- C. Overall Ratings: As indicated and as required to comply with location categories according to NEMA LS 1. All SPDs shall have a 200kA Amps Interrupting Rating (AIC).
- D. Maximum Continuous Operating Voltage: At least 125% of nominal for 240-208/120volt systems.
- E. Connection Means: Permanently wired.
- F. Protection Modes: Include the following:
 - 1. Line-to-neutral.
 - 2. Line-to-line.
 - 3. Line-to-ground.
 - 4. Neutral-to-ground.

The unit's primary mode of protection shall be line-to-neutral. The secondary modes of protection shall be line-to-ground and neutral-to-ground for a total of 10 modes.
- G. Unit shall be operable without the need of an external overcurrent protection device; and shall be UL listed as such. This requirement is independent of the requirements for SPD overcurrent protection which may or may not exist on a given project.
- H. The operating frequency range of the unit shall be 47 to 63 Hertz.

SPECIAL PROVISIONS

- I. Based on ANSI/IEEE C62.41 standard 8 x 20 microsecond current waveform, the maximum repetitive surge current capacity, in amps, of the unit shall be no less than 100 KA per mode.
- J. Nominal discharge current (In) shall be 20kA rating regardless of the SPD Type (1 or 2), or operating voltage.
- K. Units shall have no more than 10% deterioration or degradation of the UL1449 4th Edition Voltage Protection Rating (VPR) when exposed to a minimum of 5,000 repeated category C3 (20kV/10kA) surges. The SPD manufacturer must provide a test report validating the repetitive surge test was performed.
- L. The UL1449 VPR shall be permanently affixed to the SPD unit.
- M. The unit's published performance ratings shall be the UL 1449 Listed suppression ratings. The UL 1449 suppression rating shall be, for each mode of protection and system voltage as follows:

120/208V, 120/240V Ratings

Modes:	L-N	L-G	N-G	L-L	MCOV (LN, NG, LG)	MCOV (LL)
	900	800	700	1200	150	300

The minimum surge current capacity the device is capable of withstanding shall be per ANSI/IEEE C62.41 location categories. Minimum surge current capacity as follows:

Category	Application	Per Phase Capacity	Per Mode Capacity
C	Service Entrances,	250kA	125kA

- N. Suppression/Filter System:
 - 1. The unit shall include an engineered solid-state high-performance suppression system, utilizing arrays of fused non-linear voltage dependent metal oxide varistors with similar operating characteristics. The suppression system's components shall optimally share surge currents in a seamless, low-stress manner assuring maximum performance and proven reliability. The suppression system shall not utilize gas tubes, spark gaps, silicon avalanche diodes or other components which might short or crowbar the line, thus leading to interruption of normal power flow to or system upset of connected loads. The suppression system shall not incorporate any other components which may degrade performance or reliability of the suppression system.
 - 2. The fusing system shall be capable of allowing the rated maximum surge current to pass through without fuse operation. Systems utilizing a fusing system that opens below the maximum surge current level are unacceptable.
 - 3. Each Type 2 unit shall include an EMI/RFI noise suppression filter capable of up to 50 dB attenuation from 10 kHz to 100 MHz using the MIL-STD-220A insertion loss test method. Type 2-unit filtering shall conform to UL 1283 5th Edition. Ringwave let-through voltage shall be 160 volts or less (IEEE Category B3, 208V system L-N).
 - 4. Any SPD unit mounted in a distribution panel shall have an integral disconnect or circuit breaker to be used as a means of disconnecting the suppression/filter system for maintenance and/or test purposes without interruption of power to the facility's distribution system.

SPECIAL PROVISIONS

5. All internal wiring associated with the suppression/filter system and subject to surge currents shall utilize low-impedance copper bus bar and/or #8 AWG copper conductor or larger. All internal connections associated with the suppression/filter system and subject to surge currents shall be made with compression solderless-type lugs and shall be bolted to the bus bars in order to reduce overall system impedance. No plug-in component modules, quick-disconnect terminals or printed circuit boards shall be used in surge current-carrying paths.
- O. Service Conditions: Include the following:
 1. Operating Temperature: 30 to 120 deg F.
 2. Humidity: 0 to 85 percent, noncondensing.
 3. Altitude: Less than 20,000 feet above sea level.
 4. Space: Indoor, dry environment.
- P. Enclosure: NEMA 250, Type 1.

2.03 MAIN DISTRIBUTION PANEL SPD REQUIREMENTS

- A. The SPD application covered under this section is for switchgear, switchboard, and main distribution panelboard locations. Service entrance located SPDs shall be tested and demonstrate suitability for application with ANSI/IEEE C62. 41 Category C environments.
 1. The SPD shall be of the same manufacturer as the switchgear, switchboard, MCC, or busway.
 2. The SPD shall be factory installed integral to the main distribution panel at the assembly plant by the original equipment manufacturer.
 3. Locate the SPD on the load side of the main disconnect device, as close as possible to the phase conductors and the ground/neutral bar.
 4. The SPD shall be connected through a disconnect (30A circuit breaker). The disconnect shall be located in immediate proximity to the SPD. Connection shall be made via bus, conductors, or other connections originating in the SPD and shall be kept as short and as straight as possible.
 5. All monitoring and diagnostic features shall be visible from the front of the equipment.

2.04 SPD ACCESSORIES & ADVANCED FEATURES:

- A. The unit shall include Form C dry contacts (N.O. and N.C.) to facilitate connection to a building management system in order to monitor the on-line status of the unit. The contacts shall be normally open or normally closed and shall close or open upon failure of the suppression system and/or fuse. Both the NO and NC contacts shall change state under any fault condition.
- B. Provide unit with operational status indicating lights. Each SPD shall have a green/red solid-state indicator light that reports the status of the protection on each phase.
 1. For wye configured units, the indicator lights must report the status of all protection elements and circuitry in the L-N and L-G modes. Wye configured units shall also contain an additional green/red solid-state indicator light that reports the status of the protection elements and circuitry in the N-G mode.
 2. For delta configured units, the indicator lights must report the status of all protection elements and circuitry in the L-G and L-L modes.

SPECIAL PROVISIONS

3. The absence of a green light and the presence of a red light shall indicate that damage has occurred on the respective phase or mode. All protection status indicators must indicate the actual status of the protection on each phase or mode. If power is removed from any one phase, the indicator lights must continue to indicate the status of the protection on all other phases and protection modes. Diagnostics packages that simply indicate whether power is present on a phase shall not be accepted.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine conditions for compliance with requirements for installation tolerances, power characteristics, and other conditions affecting performance of transient voltage surge suppressors. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.02 CONNECTIONS

- A. Connect transient voltage suppression circuit in line-to-neutral configuration if a neutral conductor is available.
- B. Ground each transient voltage surge suppressor enclosure.
 1. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

3.03 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Supervision of the field assembly of components and installation of transient voltage surge suppressors, including electrical connections, by a factory-authorized service representative. Report results in writing.

END OF SECTION

SPECIAL PROVISIONS

Add the following Section:

SECTION 26 5600 EXTERIOR LIGHTING

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Division 26 Section 260510 – Basic Electrical Materials and Methods.
- C. Division 26 Section 264313 – Surge Protective Devices.

1.02 SUMMARY

- A. This Section includes exterior lighting units with luminaires, LED modules, drivers, poles/support structures, and accessories.
- B. Coordination Requirements:
 - 1. Coordinate the installation of all light fixtures with the work of other trades. This includes but is not limited to placement of fixtures in conjunction with civil work such as sidewalks, roadways, parking lots, landscaping and building exteriors.
 - 2. Coordinate the installation of all light fixtures with mounting surfaces fixtures will be mounted within, onto, or through. Coordinate placement of fixture supports, anchors, and mounts in conjunction with ceiling and wall system supports, anchors and mounts. Light fixture trims shall be coordinated with ceiling and wall surfaces.
 - 3. Coordinate the installation of all light fixtures with required external surge protection devices and pole bases fusing. See Paragraphs below for more on these requirements.

1.03 DEFINITIONS

- A. Lighting Unit: A luminaire or an assembly of luminaires complete with a common support, including pole, post, foundation, or other structure, and mounting and support accessories.
- B. Luminaire (Light Fixture): A complete lighting device consisting of lamp(s) and ballast(s), when applicable, together with parts designed to distribute light, to position and protect lamps, and to connect lamps to power supply.

1.04 SUBMITTALS

- A. Provide catalog cut sheets providing product data for all product used. For each type of lighting unit indicated, arranged in order of lighting unit designation. Note specifically what component is being submitted when more than one model or version is shown on the cut sheet. Where there is more than one of each type of component (circuit breaker), label the top of each cut sheet with the specific component that the cut sheet applies to. Include data on features, accessories, finishes, and the following:
 - 1. Materials and dimensions of luminaires and poles.
 - 2. Certified results of independent laboratory tests for fixtures and lamps for electrical ratings and photometric data.

SPECIAL PROVISIONS

3. LED drivers and LEDs.
 4. Provide information on the candela output along the vertical axis for each luminaire to show compliance with the requirements on the drawings.
 5. Show glare control features on each luminaire.
 6. Mill cert sheets certifying type of steel, source of steel, etc.
 7. Welder Certifications for personnel who are welding the poles.
 8. Pole reactions and calculations showing compliance with requirements including wind rating. These shall be stamped by Alaska Registered Engineer as the engineer of record for the pole as submitted.
 9. Certificate of compliance by pole fabricator stating the pole meets contract requirements and was fabricated per the submitted shop drawings, welding plan, coating submittals, mill cert sheets, etc.
 10. Coating catalog cut sheets showing compliance with contract requirements.
 11. Product listing information (UL, ETL, DLC, Dark Sky, etc...)
 12. Descriptive cut sheets Indicate fixture catalog number selections, highlight or make obvious which part numbers are used to build the complete fixture catalog number.
 13. Fixture voltage, match to project specifics.
 14. Wiring diagrams for power, control, and signal wiring.
 15. The wattage and illumination information for LED fixtures. Include rated life, color temperature, CRI, initial & mean lumen output of LED fixtures.
 16. Lens information including type, pattern, thickness, material type, special features
 17. Fixture options, mounting details and ceiling compatibility information.
 18. Construction of fixture housing and door, door type, access hole information.
 19. Fixture driver manufacturer and type information.
 20. Means of attaching luminaries to supports and indication that the attachment is suitable for components involved. All lighting fixtures required to be used on this project shall be submitted in one single submittal so that all fixtures can be reviewed at one time. Those fixtures not receiving a shop drawing action of "Reviewed" or "Reviewed and Noted" on the first submittal shall be resubmitted for review. A light fixture receiving a shop drawing action of "Resubmit" or "Rejected" after the third review for any reason, shall be furnished as originally specified.
 21. The portfolios shall be made from standard manufacturer's specification sheets. Each fixture shall be identified by the letter or number indicated on the fixture schedule or project plan sheets as applicable. The combining of more than one fixture type of fixture on a single sheet shall not be acceptable.
- B. Shop Drawings: Anchor-bolt templates keyed to specific poles and certified by manufacturer. Shop Drawings of the poles for use by the pole fabricator and stamped by Alaska Registered

SPECIAL PROVISIONS

Engineer. C. If an alternate foundation system is proposed by the CONTRACTOR, submit shop drawings and design calculations for the foundation system.

- D. Product Certificates: Signed by manufacturers of lighting units certifying that products comply with requirements.
- E. Maintenance Data: For lighting units to include in maintenance manuals specified in Division 1.
- F. Qualification Data: For testing laboratory providing photometric data for luminaires.
- G. Product Test Reports: For each luminaire, for tests performed by a qualified testing agency. Provide all applicable source quality-control reports.
- H. General: Submit each item in this Article according to the Conditions of Section 01300 – CONTRACTOR Submittals.

1.05 QUALITY ASSURANCE

- A. Luminaires and Accessories: Listed and labeled as defined in NFPA 70, Article 100, for their indicated use, location, and installation conditions by a testing agency acceptable to authorities having jurisdiction
- B. Comply with ANSI C2.
- C. Comply with NFPA 70.
- D. FM Compliance: Units for hazardous locations shall be listed and labeled for indicated class and division of hazard by FM.
- E. Pole fabricator shall provide certificate of compliance.
- F. Comply with IEEE C2, "National Electrical Safety Code."
- G. Manufacturers: Firms regularly engaged in the manufacture of interior and exterior light fixtures of types and ratings required, whose products have been in satisfactory use in similar service for not less than three (3) years.
- H. Installer: Qualified with at least three (3) years of successful installation experience on projects with interior and exterior lighting fixture work similar to that required for this project.
- I. Luminaire Photometric Data Testing Laboratory Qualifications: Luminaire manufacturers'.
- J. Luminaire Photometric Data Testing Laboratory Qualifications: Provided by an independent agency, with the experience and capability to conduct the testing indicated, that is an NRTL as defined by OSHA in 29 CFR 1910.7, accredited under the NVLAP for Energy Efficient Lighting Products and complying with applicable IES testing standards.
- K. Provide luminaires from a single manufacturer for each luminaire type.
- L. NEMA Compliance: Comply with applicable requirements of NEMA Standard Pub. Nos. LE-1 and LE-2 pertaining to lighting equipment.
- M. IEEE C62.41.2 - Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits.
- N. IESNA LM-79 - Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products; Illuminating Engineering Society.
- O. IESNA LM-80 - Approved Method: Measuring Lumen Maintenance of LED Light Sources.

SPECIAL PROVISIONS

- P. NECA 1 - Good Workmanship in Electrical Construction, latest edition.
- Q. NECA/IESNA 501 – Standard for Installing Exterior Lighting Systems, latest edition.
- R. Underwriter's Laboratories (UL) Listings. Provide fixtures that have been UL Listed and labeled to any or all of the following standards as applicable to the project:
 - 1. UL 1598 - Luminaires.
 - 2. UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products.

1.06 DELIVERY, STORAGE, AND HANDLING OF POLES

- A. Retain factory-applied pole wrappings on metal poles until just before pole installation. For all poles, handle with web fabric straps.
- B. Receive, handle, and store products according to NECA/IESNA 500 (commercial lighting), NECA/IESNA 501 (exterior lighting), NECA/IESNA 502 (industrial lighting), and all manufacturer's written instructions.
- C. All fixtures shall be kept warm, dry, safe and secure. Adhere to manufacturer storage requirements.
- D. Protect finishes of exposed surfaces by applying a strippable, temporary protective covering prior to shipping.

1.07 WARRANTY

- A. General Warranty: Special warranty specified in this Article shall not deprive OWNER of other rights OWNER may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by CONTRACTOR under requirements of the Contract Documents. Provide a general warranty for all materials and workmanship for a period of three years from the date of Substantial Completion.
- B. Special Warranty: Written warranty, signed by manufacturer and Installer agreeing to replace external parts of luminaires and poles exhibiting a failure of finish as specified below. This warranty is in addition to, and not a limitation of, other rights and remedies OWNER may have under requirements of the Contract Documents.
 - 1. Protection of Metal from Corrosion: Warranty against perforation or erosion of finish due to weathering.
 - 2. Color Retention: Warranty against fading, staining, and chalking due to effects of weather and solar radiation.
 - 3. Warranty Period: Manufacturer's standard, but not less than five years from date of Substantial Completion.

1.08 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Lamps: 10 for every 100 of each type and rating installed. Furnish at least one of each type.

SPECIAL PROVISIONS

2. Glass and Plastic Lenses, Covers, and Other Optical Parts: 1 for every 100 of each type and rating installed. Furnish at least one of each type.
3. Drivers: 1 for every 100 of each type and rating installed. Furnish at least one of each type.
4. Reflectors, Glare Shields, Globes and Guards: 1 for every 20 of each type and rating installed. Furnish at least one of each type.
5. Provide spare fixtures, complete and ready for immediate use, as indicated on the Luminaire Schedules found within the Plans.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the products indicated on the drawings.

2.02 LUMINAIRES

- A. Comply with IESNA RP-8 for parameters of lateral light distribution patterns indicated for luminaires.
- B. Metal Parts: Free from burrs, sharp corners, and edges.
- C. Sheet Metal Components: Corrosion-resistant aluminum, unless otherwise indicated. Form and support to prevent warping and sagging.
- D. Housings: Rigidly formed, weather- and light-tight enclosures that will not warp, sag, or deform in use. Provide filter/breather for enclosed luminaires.
- E. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit relamping without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during relamping and when secured in operating position. Provide for door removal for cleaning or replacing lens. Arrange to disconnect ballast when door opens.
- F. Exposed Hardware Material: 316 Stainless steel.
- G. Plastic Parts: No plastic parts.
- H. Reflecting Surfaces: Minimum reflectance as follows, unless otherwise indicated:
 1. White Surfaces: 85 percent.
 2. Specular Surfaces: 83 percent.
 3. Diffusing Specular Surfaces: 75 percent.
- I. Lenses and Refractors: Materials as indicated. Use heat- and aging-resistant, resilient gaskets to seal and cushion lens and refractor in luminaire doors.
- J. All fixtures shall be UL or other qualified third party listed for the environment where they will be installed including: damp, wet, extreme temperature, or hazardous locations.
- K. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

SPECIAL PROVISIONS

- L. NRTL Compliance: Luminaires shall be listed and labeled for indicated class and division of hazard by an NRTL.
- M. Luminaires shall comply with UL 1598 and be listed and labeled for installation in wet locations by an NRTL acceptable to authorities having jurisdiction.
- N. LER Tests Incandescent Fixtures: Where LER is specified, test according to NEMA LE 5A.
- O. Lateral Light Distribution Patterns: Comply with IESNA RP-8 for parameters of lateral light distribution patterns indicated for luminaires.
- P. Photoelectric Relays: As follows:
 - 1. Contact Relays: Single throw, arranged to fail in the on position and factory set to turn light unit on at 1.5 to 3 fc (16 to 32 lx) and off at 4.5 to 10 fc (48 to 108 lx) with 15-second minimum time delay.
 - 2. Relay Mounting: In electrical enclosures. See drawings for details.

2.03 LED LIGHTS AND LED DRIVERS

- A. Complete LED lighting fixtures for general illumination shall have been tested by IES LM-79 and LM-80 requirements.
- B. LED light fixtures shall be fabricated, assembled, and manufactured as a complete fixture unit, including housing, mounting hardware, driver, light boards (light engines), and lens.
- C. LED lighting fixtures shall allow for separate replacement of the light boards and driver. In other words, 'throw away' fixtures with non-replaceable components are not permitted.
- D. All LED fixture control devices shall be compatible with the type of drivers and dimming requirements of the particular project and coordinated with the lighting fixture submittals prior to ordering.
- E. Universal input voltage (120-277 VAC) drivers shall be provided for all LED applications.
- F. In-line fusing: On the primary for each luminaire.
- G. Drivers shall operate from a 60Hz input AC voltage from 120V-277V. Unit shall have an input voltage tolerance range of at least +/- 10%.
- H. The Total Harmonic Distortion (THD) of the driver input current shall be no more than 20% when operating at nominal input voltage.
- I. Drivers shall have a minimum Power Factor (PF) of 0.90.
- J. Drivers shall comply with IEEE/ANSI C62.41 Category C2 (medium) for transient voltage protection. This shall include a 10kV rating, and 5kA rating per the standard 8x20us combo wave testing parameters.
- K. Drivers shall comply with the requirements of the FCC rules and regulations, Title 47 CFR Part 18, Non-consumer (Class A) for EMI & EMF (conducted and radiated) interference.
- L. Fixtures may require additional surge protection apart from what is integral with the LED driver. See Paragraph 2.04 below for more details.
- M. Rated minimum life of 60,000 hours minimum per IES LM-70 testing requirements.

SPECIAL PROVISIONS

- N. Provide a TM21 report on LED boards to be used which tests LED life and lumen maintenance per the IES LM-80 standard, and LED light output and efficacy per the IES LM-70 standard.
- O. The correlated color temperature (CCT) of the LEDs shall be 4000K unless noted otherwise. The CCT shall be uniform for all LED modules within like luminaire types and luminaires within a given project. The LED CCT measurements shall have a maximum of three standard deviations (3 SDCM, +/-90K) tolerance on the MacAdam Ellipse.
- P. Provide LED boards such that any individual LED failure on a section of LED board within the fixture will not result in significant output loss of the overall fixture.

2.04 EXTERNAL LED DRIVER SURGE PROTECTION DEVICE (SPD)

- A. All pole mounted LED light fixtures shall come equipped with an additional layer of SPD protection. This additional protection shall be in addition to requirements of the surge protection integral to the LED driver itself.
- B. The SPD shall be circuited immediately upstream of the LED driver and mounted either within the fixture or immediately adjacent to it in a concealed, protected, and accessible location. Do not void manufacturer warranty or listing requirements when mounting SPD.
- C. The external SPD shall be circuited either in series or parallel with the light fixture circuit as required of the project and Owner needs. In series circuiting shall de-energize the fixture upon SPD failure (indicating a problem) while parallel circuiting shall allow for continued fixture use after SPD failure.
- D. The additional SPD shall have a kilo-amp rating in excess of the kilo-amp rating of the fixture it is protecting. Minimum specifications shall meet IEEE/ANSI Category C2 (medium) 10kV, 5kA@ 8/20us standard combo and 6kV, 100kHz ring wave protection.
- E. The additional SPD shall have a let-through voltage rating or Voltage Performance Rating (VPR) that limits the voltage to the downstream driver to within the voltage tolerance of the driver. Anticipated maximum clamping voltage (8/20us @ 10kA) as follows: 600V (120V circuit), 1000V (208-240V circuit).

2.05 LUMINAIRE SUPPORT COMPONENTS

- A. Description: Comply with AASHTO LTS-3 for pole or other support structures, brackets, arms, appurtenances, base, and anchorage and foundation. Wind loads shall be in accordance with what is shown on the drawings.
- B. Wind-Load Strength of Total Support Assembly: Adequate to carry support assembly plus luminaires at indicated heights above grade with all equipment shown to be mounted to the pole at the wind loads shown on the drawings. Support assembly includes pole or other support structures, brackets, arms, appurtenances, base, and anchorage and foundation.
 - 1. Strength Analysis: For each pole type and luminaire combination, multiply the actual equivalent projected area of luminaires and brackets by a factor of 1.1 to obtain the equivalent projected area to be used in pole selection strength analysis.
- C. Finish: Match finish of pole/support structure for arm, bracket, and tenon mount materials.
- D. Mountings, Fasteners, and Appurtenances: Corrosion-resistant items compatible with support components.

SPECIAL PROVISIONS

1. Materials: Will not cause galvanic action at contact points.
 2. Mountings: Correctly position luminaire to provide indicated light distribution.
 3. Anchor Bolts, Nuts, and Washers: Hot-dip galvanized after fabrication unless stainless-steel items are indicated.
 4. Anchor-Bolt Template: Plywood or steel.
- E. Shafts and base plates for light poles shall conform to ASTM A572 Grade 50. Connecting bolts shall conform to ASTM F3125 Grade A325. Fasteners for handhole covers, bands on lighting brackets, and connector attachment brackets shall conform to ASTM F593. Steel used for light poles shall have a controlled silicon content of either 0.00 to 0.04 percent or 0.15 to 0.25 percent. Mill test certificates verifying the silicon content of the steel shall be submitted to both the galvanizer and the Engineer prior to beginning galvanizing operations.
- F. Welding of poles and associated parts shall be in accordance with AWS D1.1/D1.1M, latest edition Structural Welding Code. No welding, including tack and temporary welds shall be done in the shop or field unless the location of the welds is shown on the approved shop drawings reviewed and accepted by the Engineer. Welding procedures shall accompany the shop drawings submittal for the light pole. The procedures shall specify the type of equipment to be used, electrode selection, preheat requirements, base materials, and joint details. When the procedures are not prequalified by AWS or AASHTO, evidence of qualification tests shall be submitted. Welding shall not begin until the submittals have been approved. Nondestructive testing in addition to visual inspection shall be performed by the Contractor. Testing and inspection shall apply to welding performed in the shop and in the field. An independent firm shall perform the nondestructive testing and shall certify the poles are fabricated per the shop drawings and submittals, as well as contract requirements. All welds shall be 100% visually inspected. Visual inspection shall be performed before, during, and after the completion of welding. Grind welds and polish all surfaces to a smooth, even finish prior to galvanizing.
- G. Anchor bolts shall meet the requirements of ASTM F1554 and unless otherwise specified, shall be grade 105 and shall conform to supplemental requirements S2, S3, and S4. Anchor bolts shall be hot dipped galvanized. Nuts for anchor bolts shall either conform to ASTM A563, Grade DH or AASHTO M292, Grade 2H. The bolts shall be tested by the manufacturer and inspected prior to shipping to the project site. The manufacturer shall provide a certificate of compliance for the anchor bolts, nuts, and washers with mill sheets stating the bolts, nuts, and washers have been manufactured per the applicable contract requirements including stating the requirements they have been manufactured to.
- H. Light poles and associated parts including anchor bolts and anchor plates shall be hot-dip galvanized in accordance with AASHTO M111 and ASSHTOM232. The hot dip galvanize shop shall provide a report of random samples of the readings of the mil thickness of the zinc. It shall be at least (3) mils. Each pole shaft end and base as well as base plate shall also be tested with readings provided in the report.
- I. See drawings for additional pole and pole base requirements.
- J. Powder coating shall be Polyester TGIC Powder coating, semi gloss smooth FS No. 27038 Black.

The coating shall conform to the following requirements:

SPECIAL PROVISIONS

Property	Range	Specification
Gloss @ 60 deg	20% +/- 5%	ASTM D523
Direct Impact (inch lbs)	120 in. lbs.	ASTM D2794
Indirect Impact (inch lbs)	120 in. lbs.	ASTM D2794
Pencil Hardness	2H	ASTM D3363
Cross Hatch Adhesion	4B	ASTM D3359B
Flexibility (Conical Mandrel)	100%	D1737/D522
Specific Gravity	1.2 minimum	ASTM D792

The galvanized steel shall go through a 5 to 7 stage pretreatment per the powder coating manufacturer and shall be degassed at 5 degrees above cure temperature to minimize gassing. All powder coating shall be preformed by a company with at least five years experience powder coating and shall provide a certification of completion stating the powder coating was performed per manufacturer's requirements and above ASTM specifications with the required results.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine roughing-in for luminaire electrical conduit to verify actual locations of conduit connections before luminaire installation.
- C. Examine walls, roofs, canopy ceilings and overhang ceilings for suitable conditions where luminaires will be installed.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Luminaire Attachment: Fasten to indicated structural supports.
- B. Luminaire Attachment with Adjustable Features or Aiming: Attach luminaires and supports to allow aiming for indicated light distribution.
- C. Lamp luminaires with indicated lamps according to manufacturer's written instructions. Replace malfunctioning lamps.
- D. Fasten luminaire to indicated structural supports. Additional support requirements include:

SPECIAL PROVISIONS

1. Use fastening methods and materials selected to resist seismic forces defined for the application and approved by manufacturer.
 2. Sized and rated for luminaire weight. Able to maintain luminaire position after cleaning and relamping.
 3. Support luminaires without causing deflection of finished surface.
 4. Luminaire-mounting devices shall be capable of supporting a horizontal force of 100 percent of luminaire weight and a vertical force of 400 percent of luminaire weight.
- E. Wall-Mounted Luminaire Support:
1. Attached to structural members in walls.
- F. Install luminaires level, plumb, and square with finished grade unless otherwise indicated. Install luminaires at height and aiming angle as indicated on Drawings.
- G. Coordinate layout and installation of luminaires with other construction.
- H. Provide hot dipped galvanized poles and mast arms. All luminaires shall be light gray, unless otherwise noted.

3.03 CONNECTIONS

- A. Ground equipment.
1. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.
- B. Ground metal poles/support structures according to Division 16 Section 16452 – Grounding.

3.04 FIELD QUALITY CONTROL

- A. Inspect each installed unit for damage. Replace damaged units.
- B. Advance Notice: Give dates and times for field tests.
- C. Provide instruments to make and record test results.
- D. Tests and Observations: Verify normal operation of lighting units after installing luminaires and energizing circuits with normal power source, and as follows:
1. Measure light intensities at night if specific illumination performance is indicated. Use photometers with calibration referenced to NIST standards. Comply with the following IES testing guide(s): IES LM-5, LM-50, LM-52, LM-64, LM-72.
 2. Check intensity and uniformity of illumination.
 3. Check excessively noisy drivers..
- E. Operational Test: After installing luminaires, switches, and accessories, and after electrical circuitry has been energized, test units to confirm proper operation.
- F. Prepare a written report of tests, inspections, observations and verifications indicating and interpreting results.
- G. Malfunctioning Fixtures and Components: Replace or repair, then retest. Repeat procedure until units operate properly.

SPECIAL PROVISIONS

3.04 CLEANING AND ADJUSTING

- A. Clean units after installation. Use methods and materials recommended by manufacturer.
- B. Adjust luminaires and luminaires with adjustable lamp position to provide required light distributions and intensities.

END OF SECTION

END OF SPECIAL PROVISIONS

LITTLE ROCK DUMP SECURE STORAGE

CBJ CONTRACT NO. DH26-015

SHEET INDEX

SHEET No.	TITLE
GENERAL	
G-001	COVER SHEET
G-002	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
CIVIL	
C-100	TYPICAL SECTIONS
C-101	PAD SECTIONS
C-200	EXISTING CONDITIONS, DEMOLITION PLAN, AND SURVEY CONTROL
C-201	ACCESS ROAD PLAN AND PROFILE
C-202	PAD AND DRIVEWAY PLAN AND PROFILE
C-400	FENCE DETAILS
C-401	GATE DETAILS
C-402	MISCELLANEOUS DETAILS
ELECTRICAL (ADDITIVE ALTERNATE 1)	
E1	TITLE, INDEX, LEGEND, & GENERAL NOTES
E2	SITE PLAN
E3	SINGLE LINE & PANEL SCHEDULE
E4	LUMINARE SCHEDULE
E5	AREA LIGHTING DETAIL
E6	PANEL ELEVATION & TRENCH DETAILS



PREPARED BY:



PREPARED FOR:



PROJECT	2670.80611.02
DATE	12/18/2025
SHEET	
G-001	

LEGEND

DESCRIPTION

EXISTING

REMOVE

PROPOSED

CULVERT

DAYLIGHT EXTENTS

GRADE BREAK

EDGE OF ASPHALT

EDGE OF DIRT ROAD

FENCE

LIGHT POLE

MAJOR CONTOUR

MINOR CONTOUR

OVERHEAD COMMUNICATION

OVERHEAD ELECTRIC

POST

ROAD MARKING

SLUDGE CELL

SURVEY CONTROL POINT

TREE LINE

UNDERGROUND COMMUNICATION

UTILITY BOX

UTILITY POLE

ABBREVIATIONS

ALCAP	ALUMINUM SURVEY MONUMENT
AWS	AVALANCHE WARNING SYSTEM
BP	BEGINNING OF PROJECT
CBJ	CITY AND BOROUGH OF JUNEAU
CTE	CONNECT TO EXISTING
EL	ELEVATION
EP	END OF PROJECT
FG	FINISHED GRADE
GB	GRADE BREAK
LT	LEFT
MN	MAGNETIC NAIL
MTE	MATCH TO EXISTING
NO	NUMBER
NTS	NOT TO SCALE
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
ROW	RIGHT-OF-WAY
RPC	RED PLASTIC CAP SURVEY MONUMENT
RT	RIGHT
STD	STANDARD
TYP	TYPICAL
W/	WITH

GENERAL NOTES

1. LARGE BOULDERS, BEDROCK, STUMPS, LOGS, ORGANICS AND GROUND WATER MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING TRENCHING AND ROADWAY EXCAVATIONS OPERATIONS. THESE MATERIALS SHALL BE DISPOSED OF AS REQUIRED BY THE ENGINEER.
2. THE 4TH EDITION OF THE CBJ STANDARD DETAILS, DATED AUGUST 14 2011, STANDARD SPECIFICATIONS AND ALL ERRATA ARE MADE PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE.
3. THE GRADING AND ALIGNMENTS ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
4. PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY. EXISTING RECORD PLATS DO NOT CLOSE WITH EACH OTHER IN SOME CASES. THE PROPERTY LINES SHOWN ON THESE PLANS ARE A BEST FIT APPROXIMATION OF CLOSURE.
5. CONTRACTOR SHALL REFERENCE ALL EXISTING PROPERTY CORNER MONUMENTS (I.E. REBARS, CONCRETE NAILS, BRASS CAP MONUMENT AND ETC.) PRIOR TO CONSTRUCTION, REMONUMENT AFTER SURFACING IS REPLACED, AND SUBMIT A RECORD OF MONUMENT TO THE ENGINEER. ALL WORK SHALL BE DONE BY, OR UNDER THE DIRECTION OF, AN ALASKA REGISTERED LAND SURVEYOR.
6. THE PLAN SHEETS DO NOT SHOW ALL OF THE TREES AND OTHER VEGETATION THAT WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES.
7. THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT, OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY, WITHOUT WRITTEN APPROVAL OF THE PROPERTY OWNER.
8. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ENGINEER APPROVED EROSION CONTROL DEVICES DURING CONSTRUCTION PER SECTION 01570.

REVISIONS			
REV	DATE	DESCRIPTION	BY





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907-780-3533



LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015

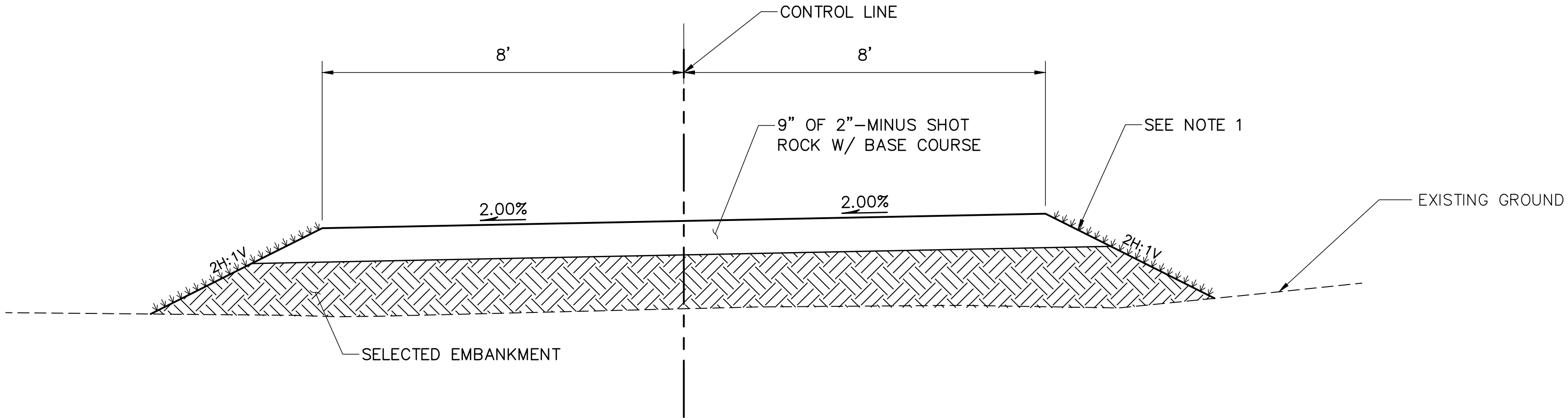
LEGEND, ABBREVIATIONS, &
GENERAL NOTES

PROJECT 2670.80611.02
DATE 11/3/25

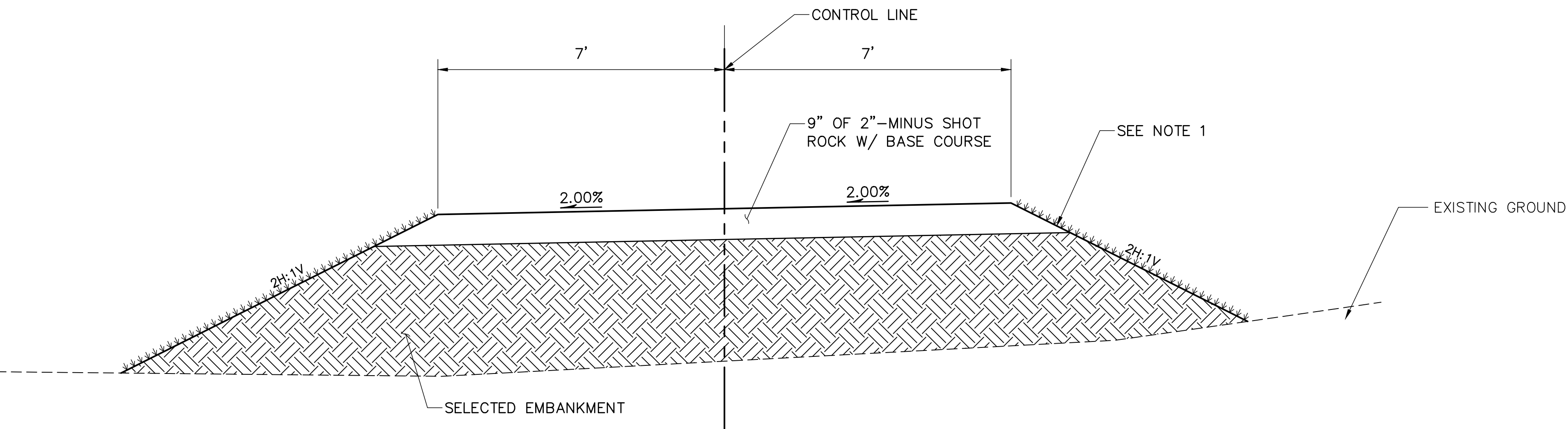
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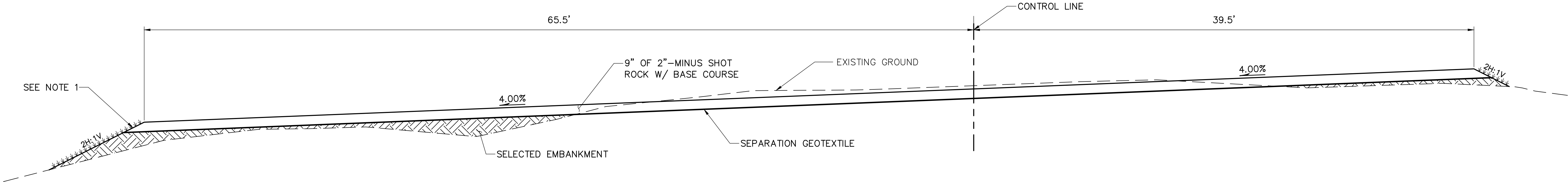
- TYPICAL SECTION NOTES:
- 1. HYDROSEED ALL SIDE SLOPES.
 - 2. USABLE EXCAVATION CAN BE SUBSTITUTED FOR SELECTED EMBANKMENT AS DIRECTED BY PROJECT ENGINEER.



TYPICAL SECTION ~ "M" STA 10+60 TO "M" 13+35

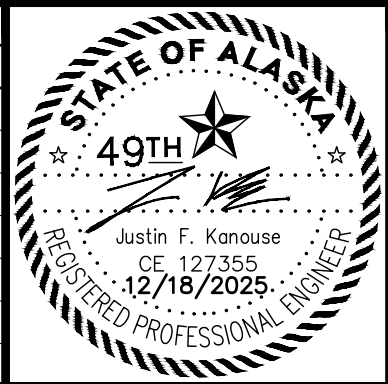


TYPICAL SECTION ~ "P" STA 20+35 TO "P" STA 20+72



TYPICAL SECTION ~ "P" STA 20+72 TO "P" STA 22+75

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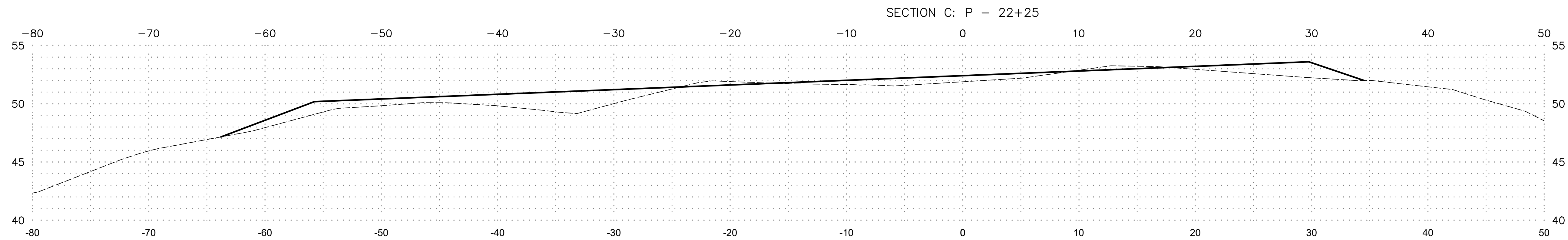
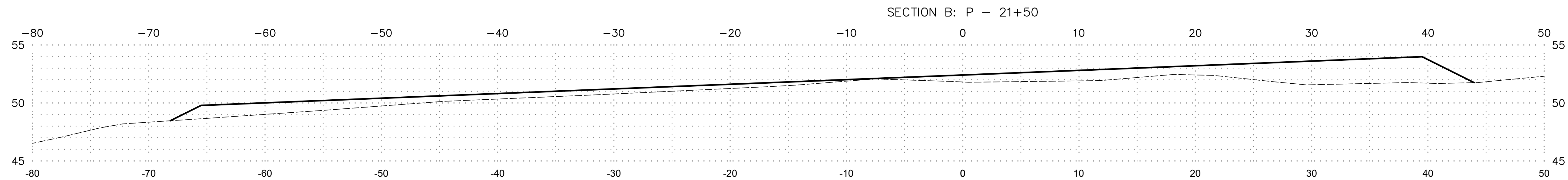
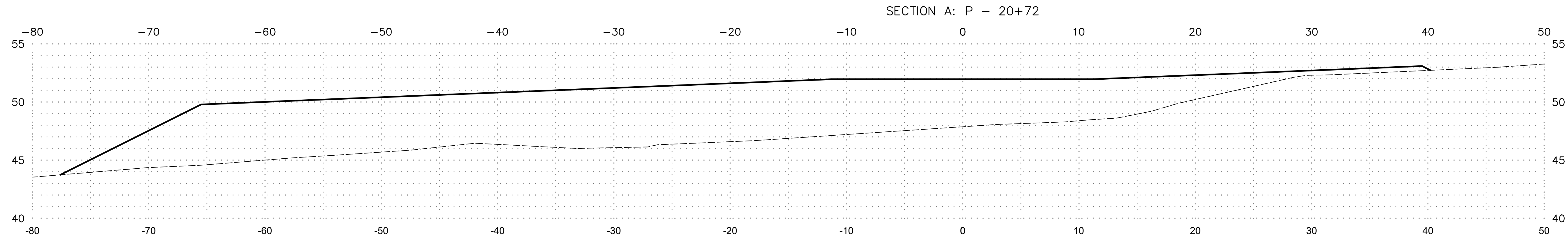


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CONTRACT NO. DH26-015

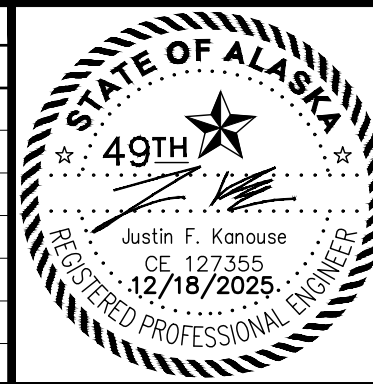
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PROJECT 2670.80611.02
DATE 11/3/25
SHEET
C-100

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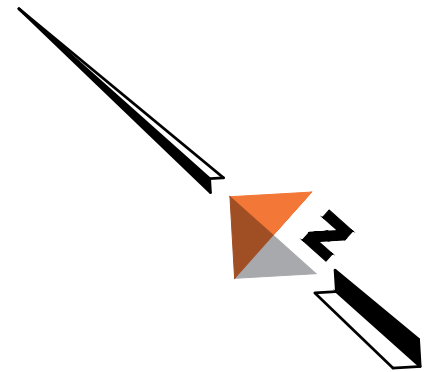
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CONTRACT NO. DH26-015

PAD SECTIONS

PROJECT 2670.80611.02
DATE 11/3/25

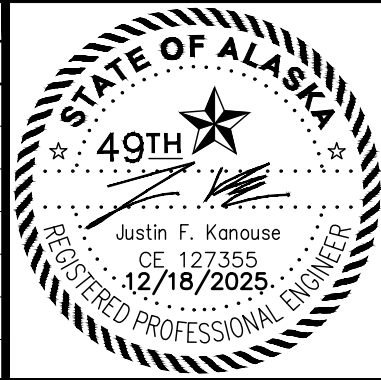
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CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
103	2356756.174	2549209.135	34.11	CTRL/FOUN.GPSS.DOT.ALCAP.SHO.MON@DOGLEG
201	2355900.212	2549973.559	28.30	CTRL/SETN.GPSS.RPC
202	2356163.380	2549189.887	53.49	CTRL/SETN.GPSS.RPC
210	2358015.729	2546516.356	50.64	CTRL/FOUN.GPSS.ALCAP@ROBERTS/JACOBSEN

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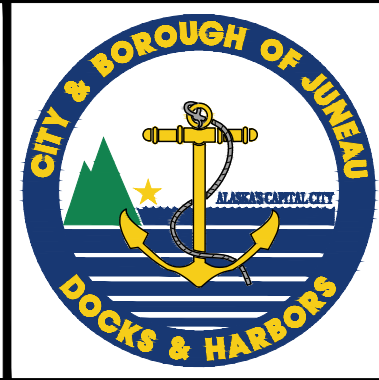




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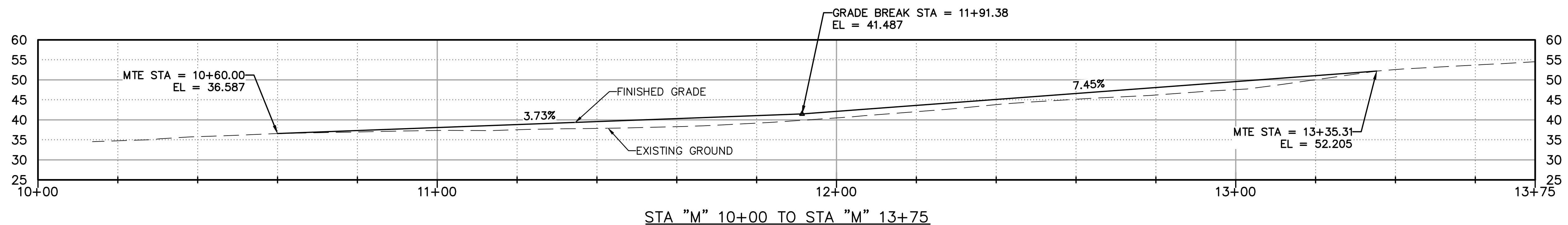
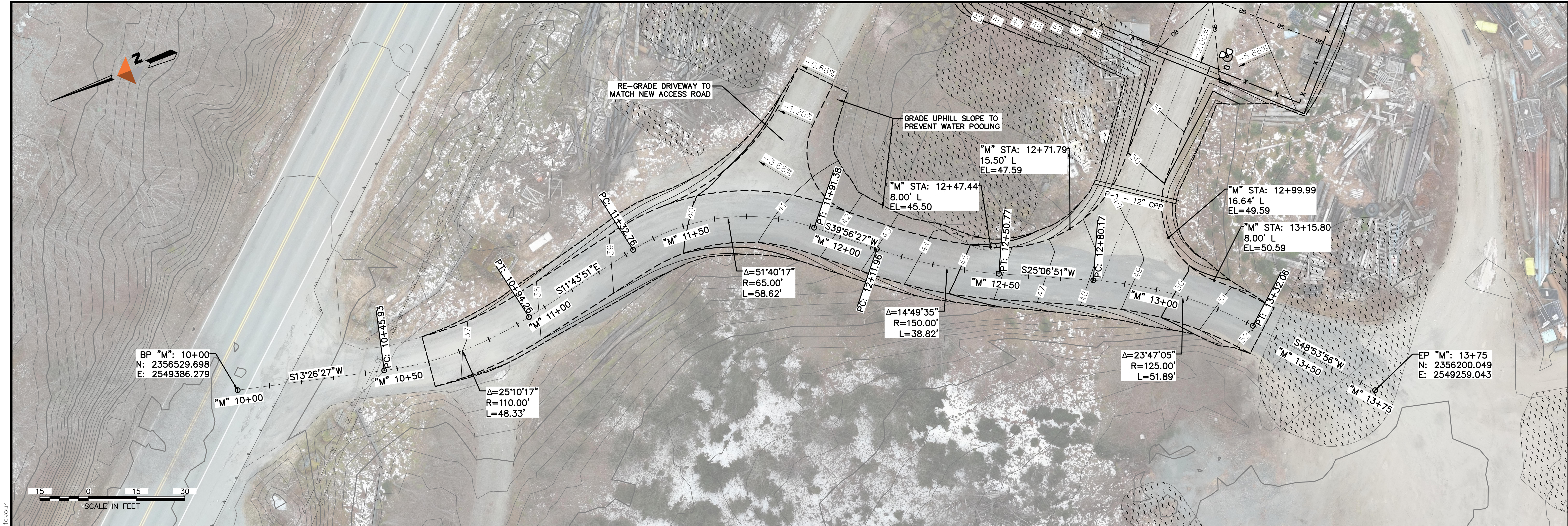
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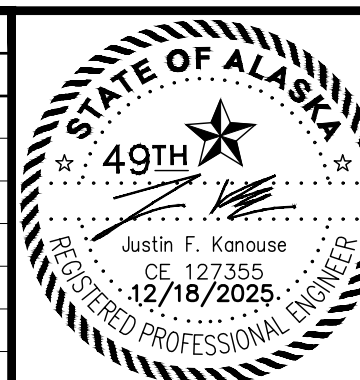
LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015
EXISTING CONDITIONS,
DEMOLITION PLAN, AND
SURVEY CONTROL

PROJECT 2670.80611.02
DATE 11/3/25
SHEET
C-200



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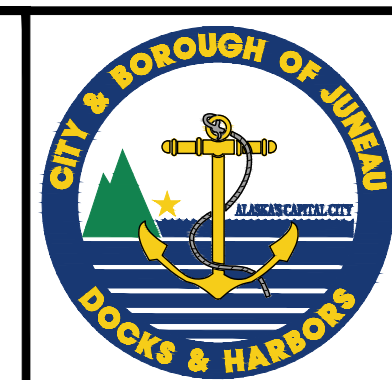
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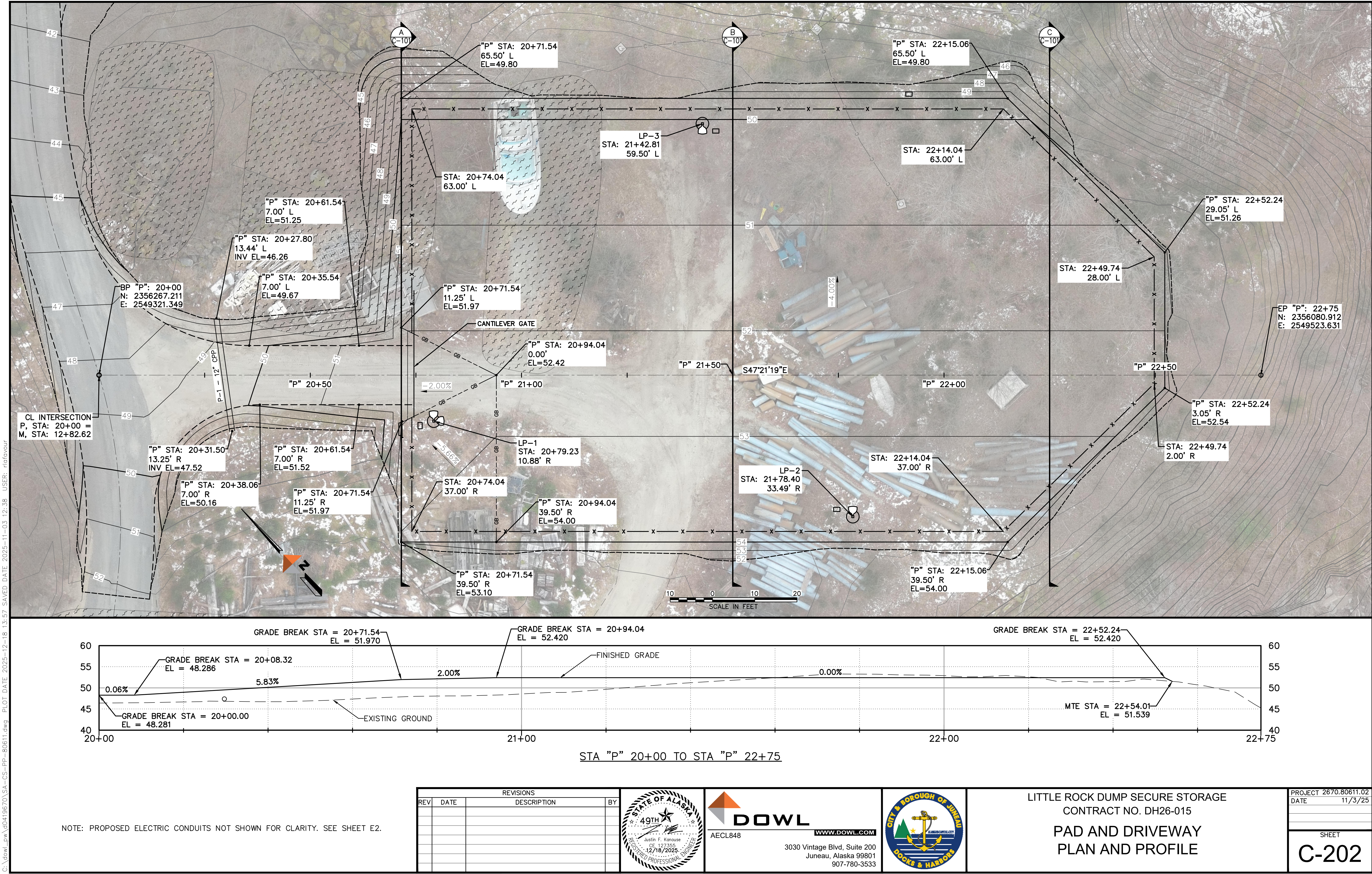
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LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015

ACCESS ROAD PLAN AND PROFILE

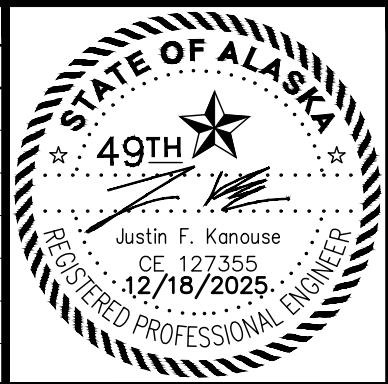
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DATE 11/3/25
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C-201



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NOTE: PROPOSED ELECTRIC CONDUITS NOT SHOWN FOR CLARITY. SEE SHEET E2.

REVISIONS			
REV	DATE	DESCRIPTION	BY





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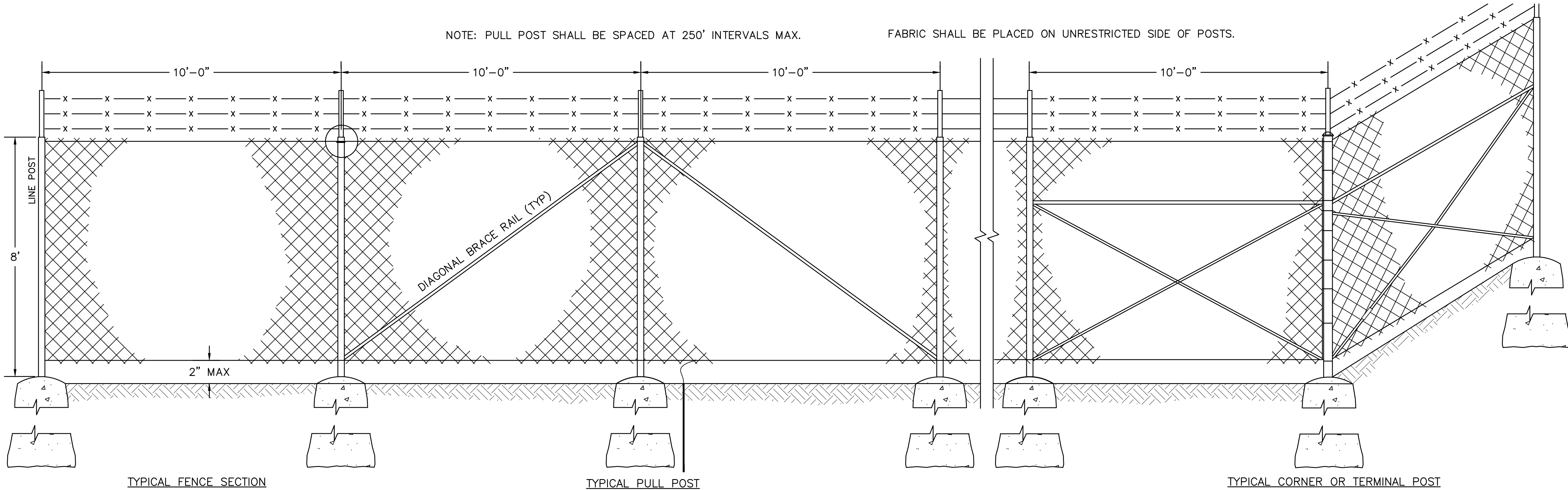
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CONTRACT NO. DH26-015

PAD AND DRIVEWAY
PLAN AND PROFILE

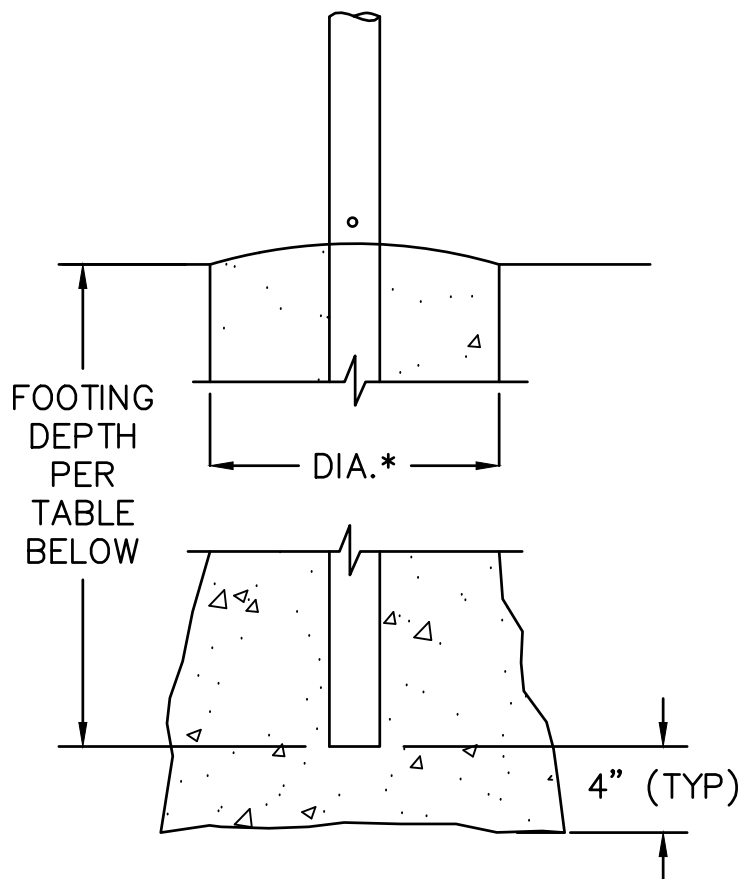
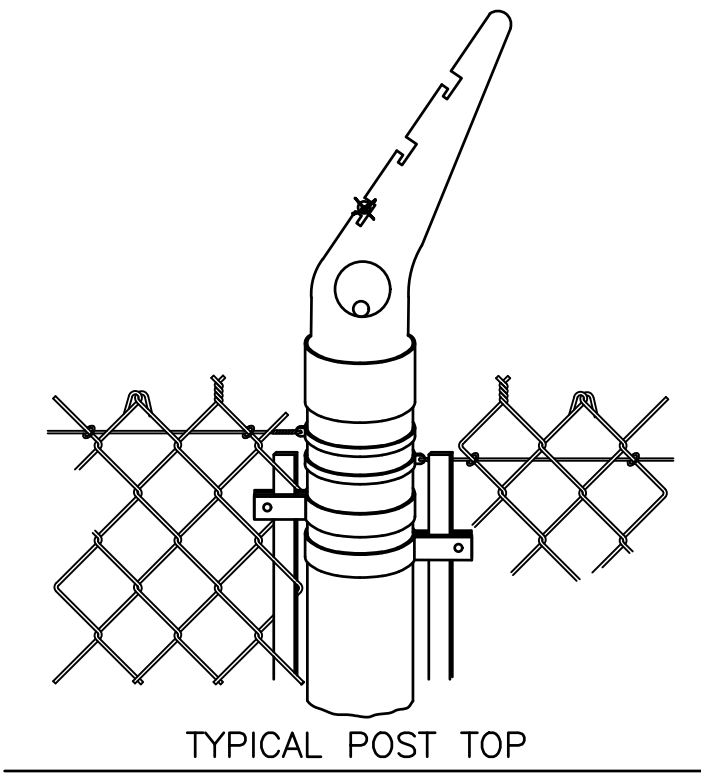
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DATE 11/3/25

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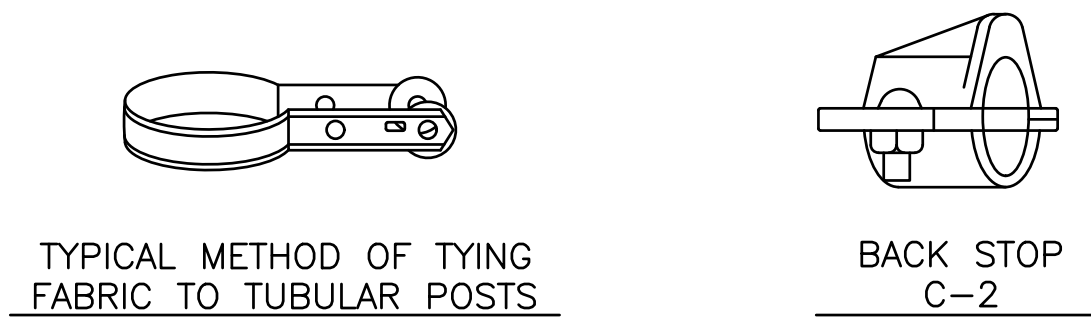
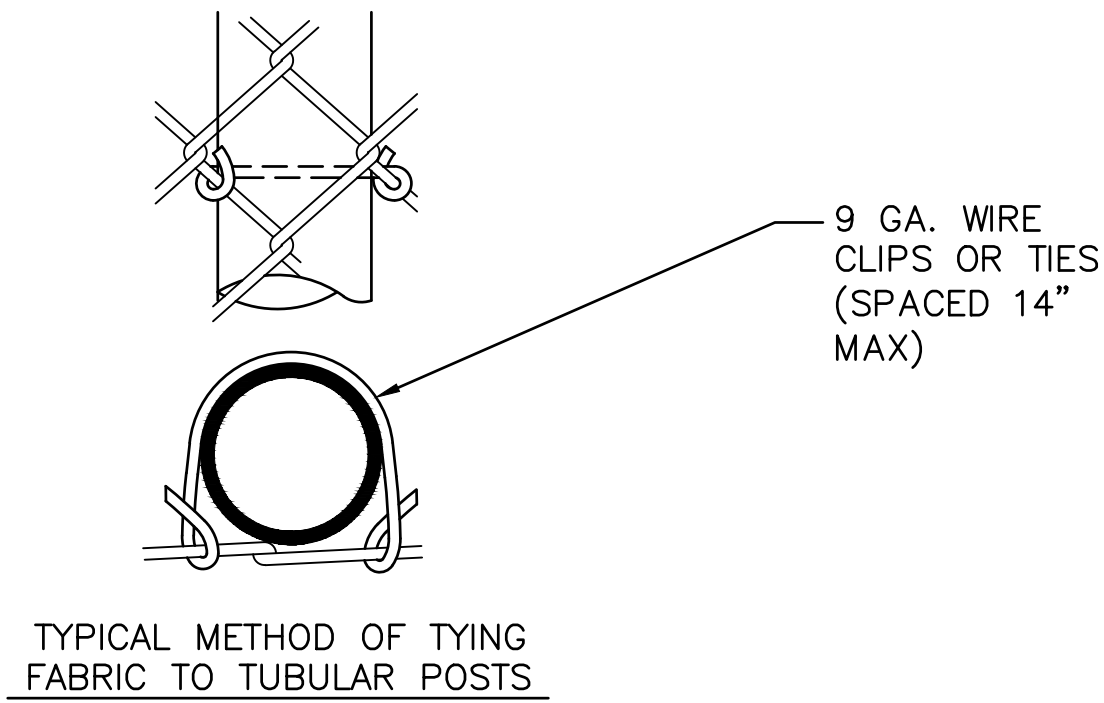
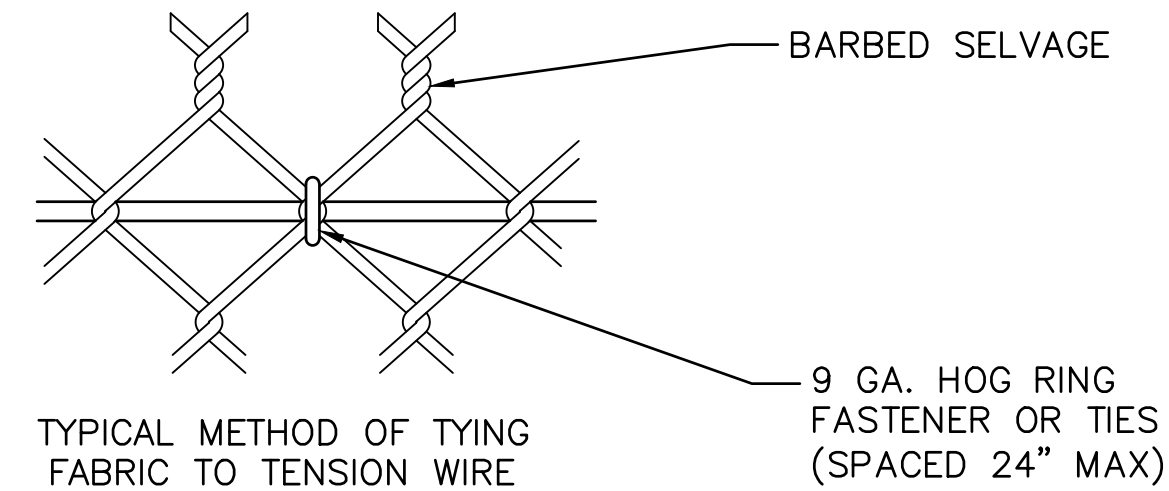
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- CHAINLINK FENCE NOTES:**
1. POSTS SHALL BE SPACED EQUAL DISTANCES APART. MAXIMUM SPACING SHALL BE 10 FEET UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 2. POST TOPS SHALL BE SECURELY FASTENED TO POST.
 3. BRACE RAILS AND TRUSS RODS SHALL BE SECURELY FASTENED TO POST WITH BRACE BANDS WITH THREADED TAKE-UP ADAPTER FOR TRUSS RODS.
 4. GROUND WIRE SHALL BE ATTACHED TO FENCE FABRIC BY MEANS OF A SPLIT BOLT.
 5. FABRIC SHALL BE STRETCHED TO A SMOOTH UNIFORM APPEARANCE.
 6. DETAILS SHOWN INDICATE GENERAL DESIGN AND DIMENSIONS MAY VARY AMONG MANUFACTURERS.
 7. ALL FENCE POSTS SHALL BE SET IN CONCRETE.
 8. FABRIC SHALL BE PLACED ON UNRESTRICTED SIDE OF POSTS.
 9. TOP RAIL MAY BE USED IN LIEU OF TENSION WIRE. ADJUST TOP BRACE LOCATION TO VERTICAL MIDPOINT ON CORNER POST AND NEXT ADJACENT POSTS IF TOP RAIL IS USED.



CONCRETE POST SETTING
NOTE: SEE TABLE BELOW

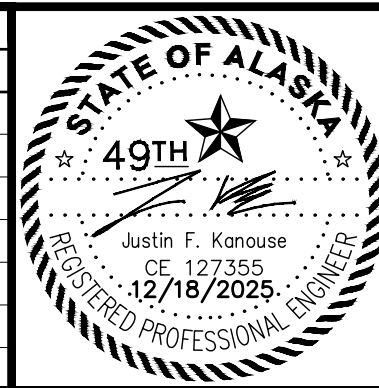


CHAINLINK FENCE DESIGN PARAMETERS										
FENCE FABRIC HEIGHT	POST TYPE									
	END-CORNER-PULL				LINE-BRACE				TOP RAIL OR BRACE RAIL	
	PIPE		FOOTING		PIPE		FOOTING		PIPE	
	SIZE (IN.)	LB/FT	DEPTH (IN.)	DIA. (IN.)	SIZE (IN.)	LB/FT	DEPTH (IN.)	DIA. (IN.)	SIZE	LB/FT
8'	2 7/8	5.80	48	15	2 3/8	3.65	40	12	1 1/4	2.27

1 CHAIN LINK FENCE DETAILS

NOT TO SCALE

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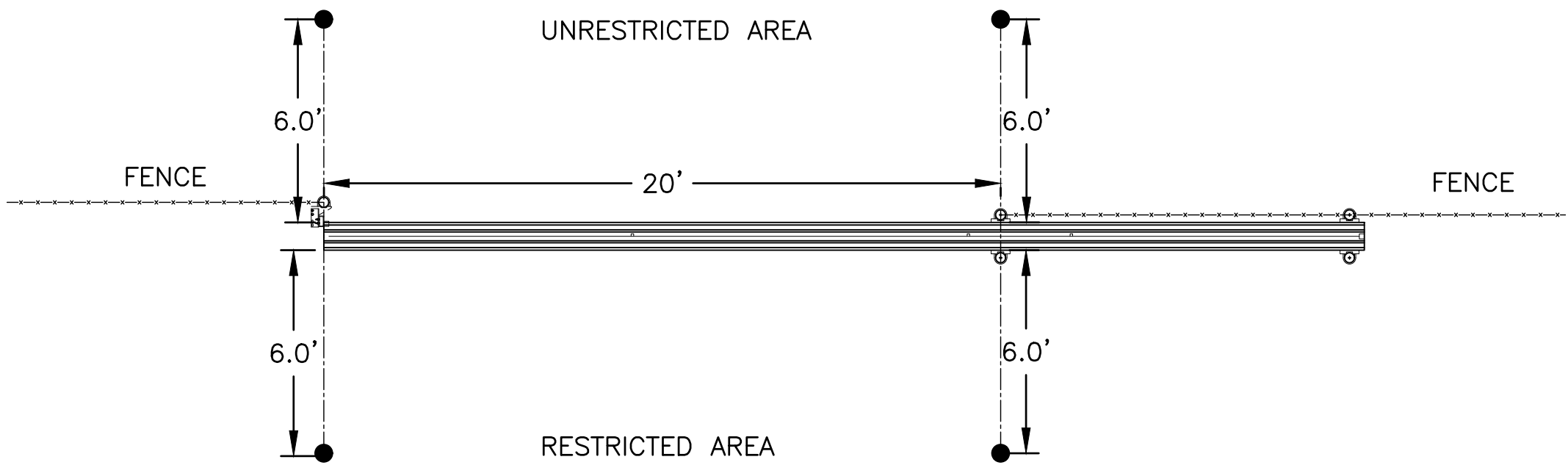


LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015

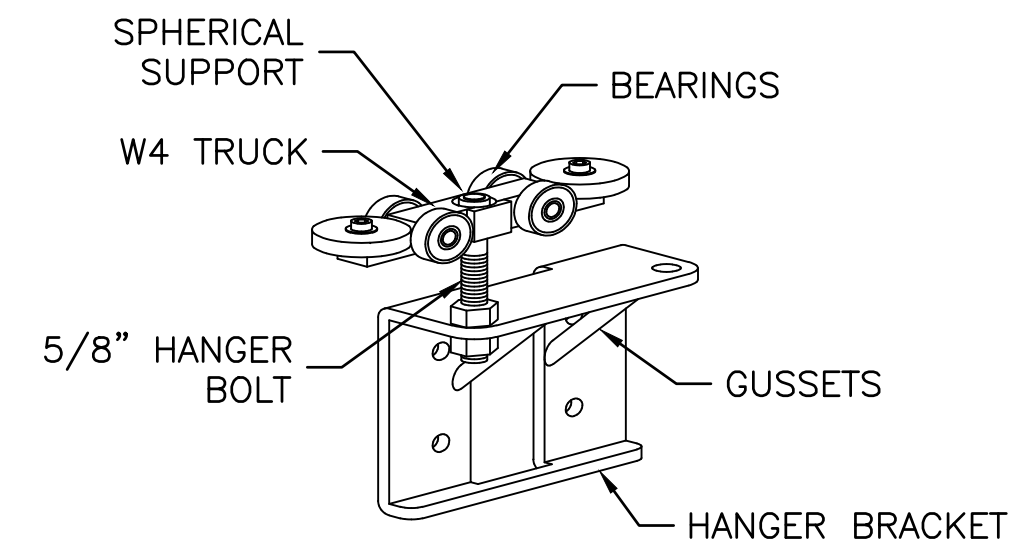
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PROJECT 2670.80611.02 DATE 11/3/25
SHEET C-400

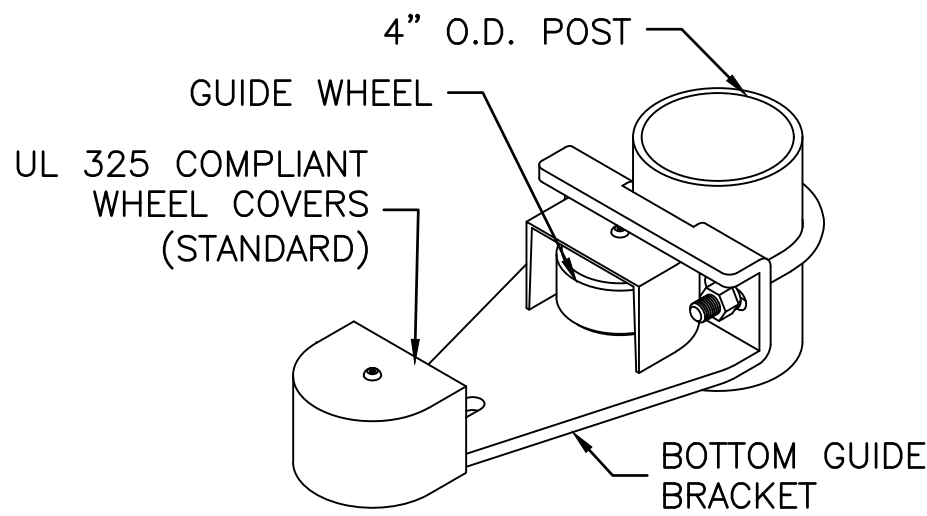
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1 MANUAL CANTILIVER GATE DIMENSIONS SITE PLAN
NOT TO SCALE



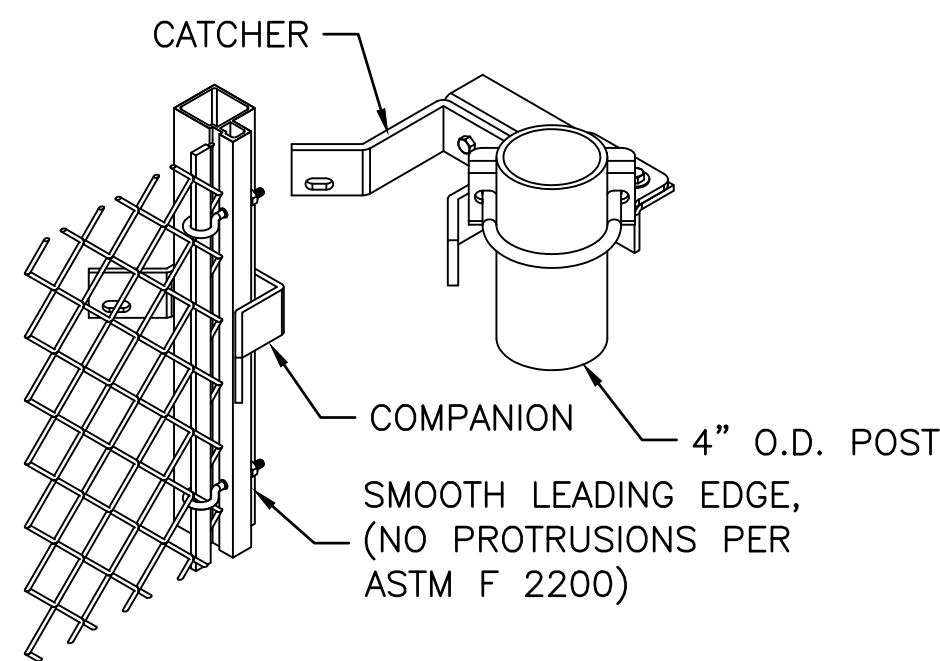
3 GATE HANGER ASSEMBLY
NOT TO SCALE



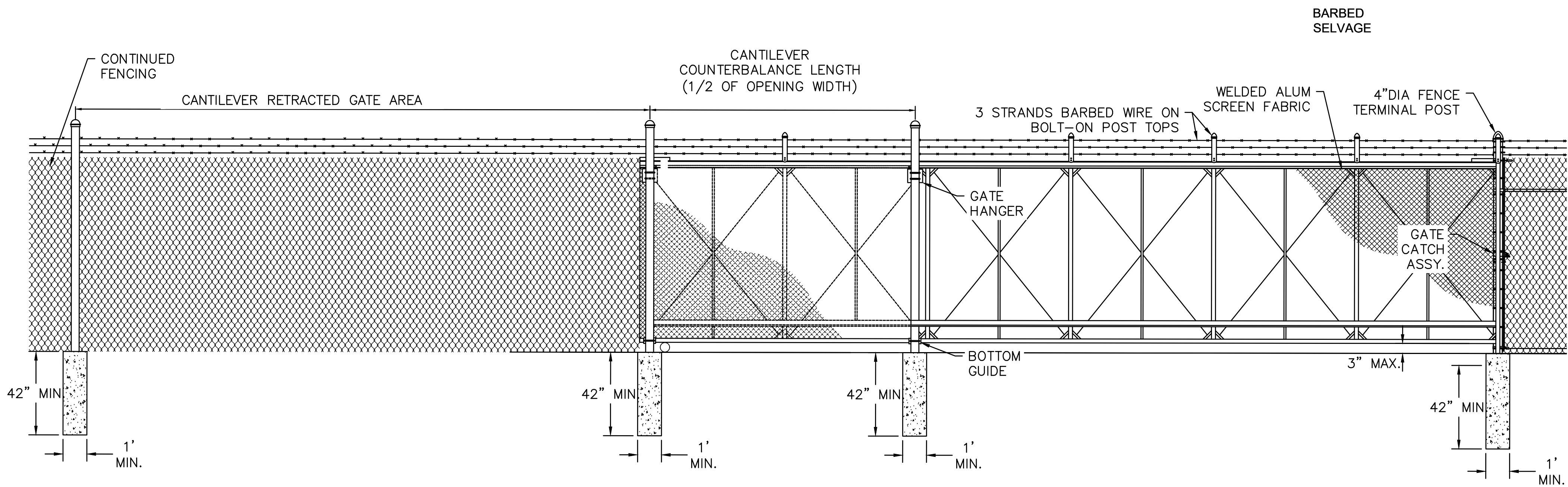
4 BOTTOM GUIDE
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SHEET NOTES:

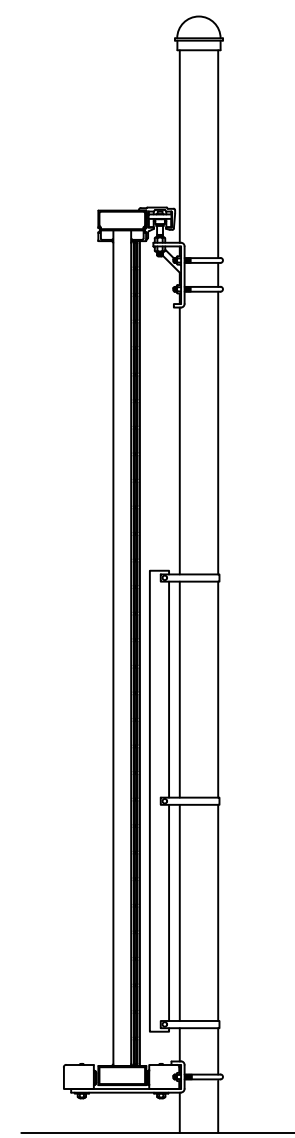
- THIS SITE PLAN DEPICTS A TYPICAL LAYOUT OF EQUIPMENT AT A 20 FOOT WIDE DRIVEWAY WITH A CANTILEVER GATE SYSTEM. THIS PLAN INCLUDES GENERAL SIZING, SPACING, AND DIMENSIONAL RELATIONSHIPS BETWEEN ADJACENT ELEMENTS.
- SEE PROJECT CIVIL DRAWINGS FOR ALL NON-ELECTRICAL WORK (FENCING, DRIVEWAYS, STRUCTURAL CONCRETE). PROJECT SHALL ADHERE TO CIVIL ENGINEER REQUIREMENTS WHICH OVERRIDE ANY SPECIFICS PROVIDED IN THIS PLAN THAT ARE LESS STRINGENT. CONSULT PROJECT ENGINEER FOR ANY QUESTIONS OR CLARIFICATIONS PRIOR TO MODIFYING DESIGN FROM THE DIMENSIONS, RELATIONAL LOCATIONS, OR SPECIFICATIONS.
- GATE STANCHION FOUNDATION PER GATE MANUFACTURER REQUIREMENTS AND NOTES.



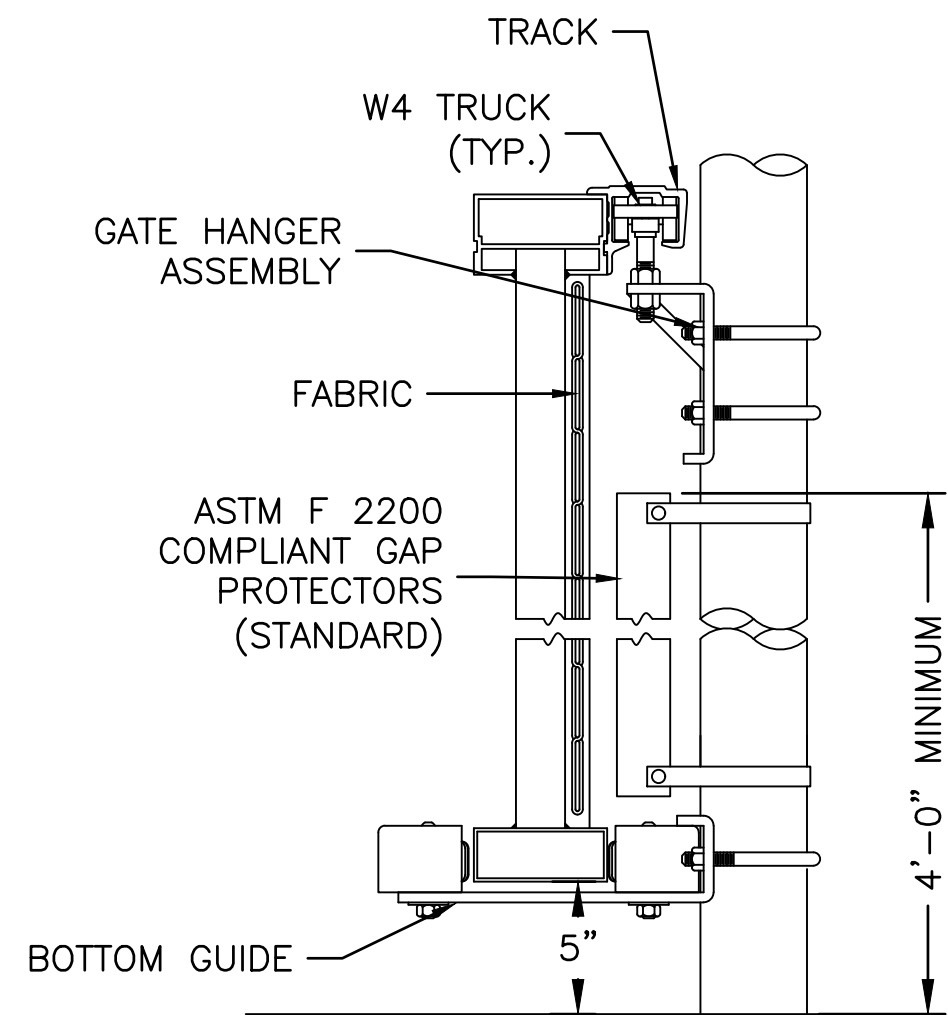
5 CATCH ASSEMBLY
NOT TO SCALE



2 MANUAL CANTILIVER GATE ELEVATION
NOT TO SCALE

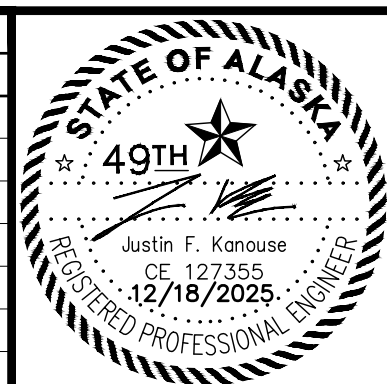


6 SECTION
NOT TO SCALE



7 ENLARGED SECTION
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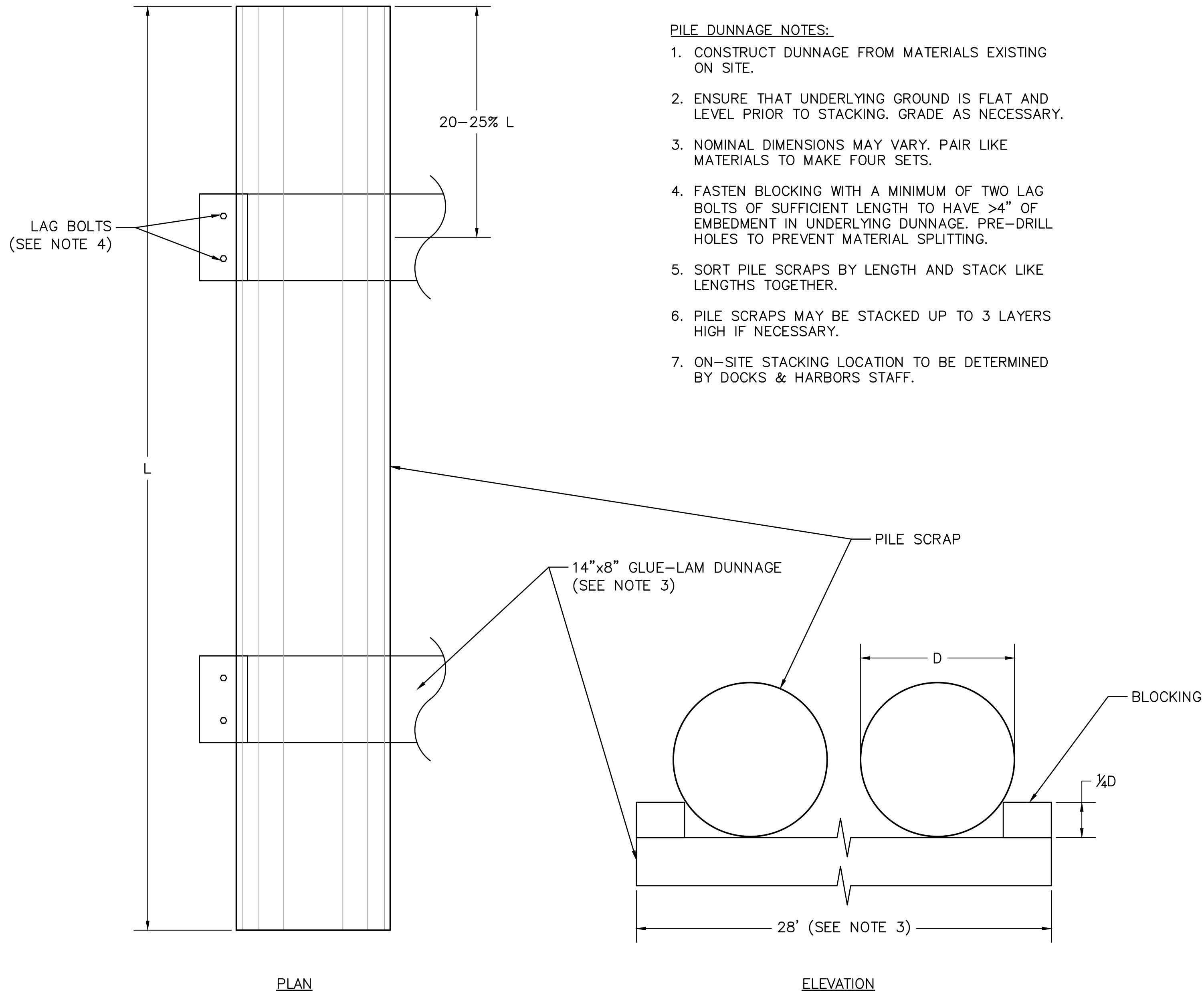
LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015

GATE DETAILS

PROJECT 2670.80611.02
DATE 11/3/25

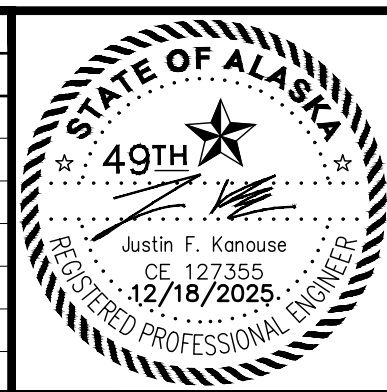
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① **PILE DUNNAGE DETAIL**
NOT TO SCALE

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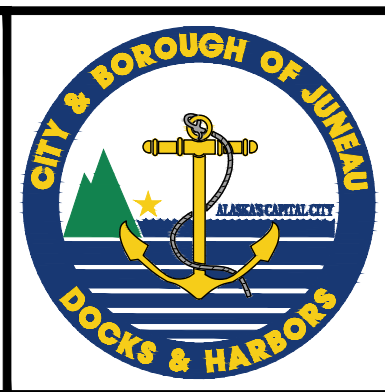




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LITTLE ROCK DUMP SECURE STORAGE
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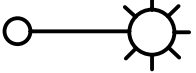
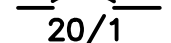
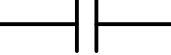
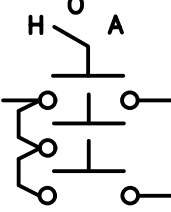
MISCELLANEOUS DETAILS

PROJECT 2670.80611.02 DATE 11/3/25
SHEET C-402

y:\129 dowl engineering\43 cbj little rock dump\working drawings\TITLE, INDEX, LEGEND, & GENERAL NOTES.dwg PLOT DATE 2025-12-11 10:49 SAVED DATE 2025-12-11 09:18 USER: jodi

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LEGEND

ACS	TELECOM UTILITY		LIGHTING CONTACTOR
AEL&P	ALASKA ELECTRIC LIGHT & POWER (POWER UTILITY)	L#	LIGHT POLE
AFG	ABOVE FINISHED GRADE		LIGHT POLE WITH LUMINAIRE
APPROX	APPROXIMATELY		LIGHT POLE, EXISTING
C	CONDUIT	MAX	MAXIMUM
CBJ	CITY & BOROUGH OF JUNEAU		METER
CKT	CIRCUIT	MIN	MINIMUM
CU	BARE COPPER	NEC	NATIONAL ELECTRICAL CODE
C/B	CIRCUIT BREAKER	NOM	NOMINAL
	CIRCUIT BREAKER (AMPS/POLES)	NIC	NOT IN CONTRACT
	CONTACTOR	NM	NON-METALLIC
DIA.	DIAMETER	NO.	NUMBER
DIST	DISTANCE	OD	OUTSIDE DIAMETER
ELEC	ELECTRICAL	OH	OVERHEAD
EXTG	EXISTING	PED	PEDESTAL
FC	FOOT CANDLE		PHOTOCELL
GALV.	GALVANIZED	PVC	POLYVINYL CHLORIDE CONDUIT
GCI	TELEVISION UTILITY		RECEPTACLE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	REC	RECEPTACLE
GND	GROUND	SPD	SURGE PROTECTION DEVICE
GRS	GALVANIZED RIGID STEEL	SS	STAINLESS STEEL
HH#	HANDHOLE	TYP-#	TYPICAL
HOA	HAND-OFF-AUTO	XFMR	TRANSFORMER
	HAND-OFF-AUTO SWITCH	UG	UNDERGROUND
	JUNCTION BOX, J-BOX	UON	UNLESS OTHERWISE NOTED
LTG	LIGHT	UNK	UNKNOWN
			UTILITY POLE
		-OE-	UTILITY - OVERHEAD ELECTRICAL
		-E-	UTILITY - UNDERGROUND ELECTRICAL

GENERAL NOTES (APPLICABLE TO ALL SHEETS):

- PERFORM ALL WORK PER NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION.
- PERFORM ALL WORK AS SHOWN ON DRAWINGS AND AS REQUIRED TO PROVIDE OPERATIONAL SYSTEMS.
- COORDINATE WITH POWER UTILITIES TO ALLOW THEM TO PERFORM THEIR WORK. UTILITY WORK WILL BE PAID FOR BY OTHERS. AS NOTED IN THE PLANS, SOME UTILITY WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. DO NOT INSTALL ANYTHING IN CONFLICT WITH UTILITIES. BRING ALL CONFLICTS TO THE ATTENTION OF THE ENGINEER. OBTAIN LOCATES BEFORE WORKING TO AVOID NEWLY INSTALLED UTILITIES. POWER, TELEPHONE, AND TV UTILITY FACILITY DETAILS SHOWN ON THE DRAWINGS ARE SHOWN TO INFORM THE CONTRACTOR WHERE AND HOW THEY WILL BE REWORKED TO ALLOW FOR PROPER COORDINATION. THE POWER, TELEPHONE AND TV UTILITY COMPANIES WILL INSTALL THEIR FACILITIES, NOT THE CONTRACTOR.
- ALL CONDUIT SHALL BE SCHEDULE 40 PVC EXCEPT ALL ROAD CROSSINGS SHALL BE SCHEDULE 80 PVC. PROVIDE SCHEDULE 80 PVC WITHIN 10' OF LIGHT POLE FOUNDATIONS, TYPE 1A JUNCTION BOXES AND CONCRETE STRUCTURES. INSTALL CONDUIT PER TRENCH DETAIL, SHEET E6.
- ALL WIRING SHALL BE IN CABLE WITH COPPER CONDUCTOR, 600V RATED XHHW-2 INSULATION, AND OVERALL PVC JACKET. PROVIDE ADDITIONAL BARE GROUND. USE BARE GROUND TO GROUND TYPE 1A JUNCTION BOXES, LIGHT POLES, FOUNDATIONS, ETC. BOND GROUND INSIDE CABLE TO LOAD CENTER AND LIGHT POLES.
- OBTAIN PRIVATE LOCATES BEFORE CONSTRUCTION AND PROTECT CONDUIT, EQUIPMENT, ETC. TO REMAIN. ADJUST NEW CONDUIT ROUTING AS REQUIRED TO INTERCEPT, EXTEND, AND RE-USE EXISTING CONDUIT, ETC.
- ALL EXTERIOR LIGHTING WIRING SHALL BE IN CABLE WITH COPPER CONDUCTOR, 600V RATED XHHW-2 INSULATION, AND OVERALL PVC JACKET. PROVIDE ADDITIONAL BARE GROUND. USE BARE GROUND TO GROUND HANDHOLES, LIGHT POLES, FOUNDATIONS, ETC. BOND GROUND INSIDE CABLE TO PANEL AND LIGHT POLES.
- COORDINATE ALL CONDUIT CROSSING WITH CIVIL INFRASTRUCTURE PRIOR TO WORK. NOT ALL CROSSINGS NOTED ON THE DRAWINGS. CALL FOR LOCATES
- SIZE CONDUIT AND CONDUCTORS AS REQUIRED PER NEC UNLESS OTHERWISE NOTED. IN ALL CASES, INCREASE CONDUIT AND CONDUCTORS SIZES IF REQUIRED TO MEET NEC.
- ALL CIRCUITS SHALL HAVE A DEDICATED EQUIPMENT GROUNDING CONDUCTOR.
- PROVIDE PULL STRING IN ALL SPARE CONDUITS.
- PROVIDE SWING TIES ON AS-BUILT DRAWINGS AND 4' OF NO. 3 REBAR AT EVERY CONDUIT LOCATION THAT IS CAPPED BELOW GRADE.
- PROVIDE ALL WORK PER THE DRAWINGS AND THE SPECIFICATION SECTIONS INCLUDED WITH THE BID DOCUMENTS.

Sheet Index

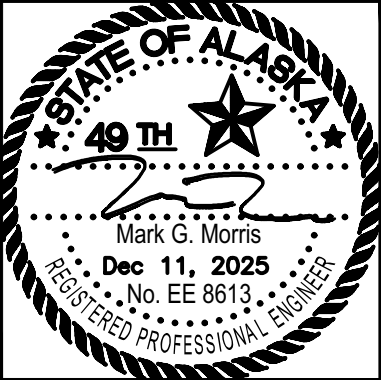
SHEET NO.	SHEET TITLE
E1	INDEX, LEGEND, & GENERAL NOTES
E2	SITE PLAN
E3	SINGLE LINE & PANEL SCHEDULE
E4	LUMINAIRE SCHEDULE & LIGHTING SCHEMATIC
E5	AREA LIGHTING DETAILS
E6	RACK ELEVATIONS & TRENCH DETAILS

ADDITIVE ALTERNATE NO. 1



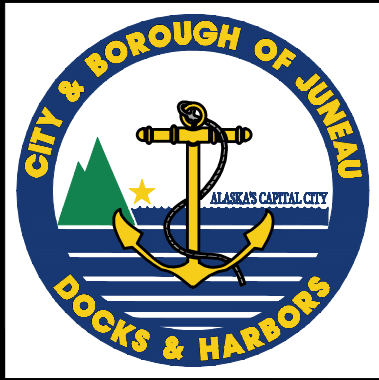
MORRIS
ENGINEERING GROUP INC.
2375 Jordan Avenue, #7 Juneau, Alaska 99801
Phone: 907-789-3350
www.morrisengineeringgroup.com

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LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015
INDEX, LEGEND, & GENERAL NOTES

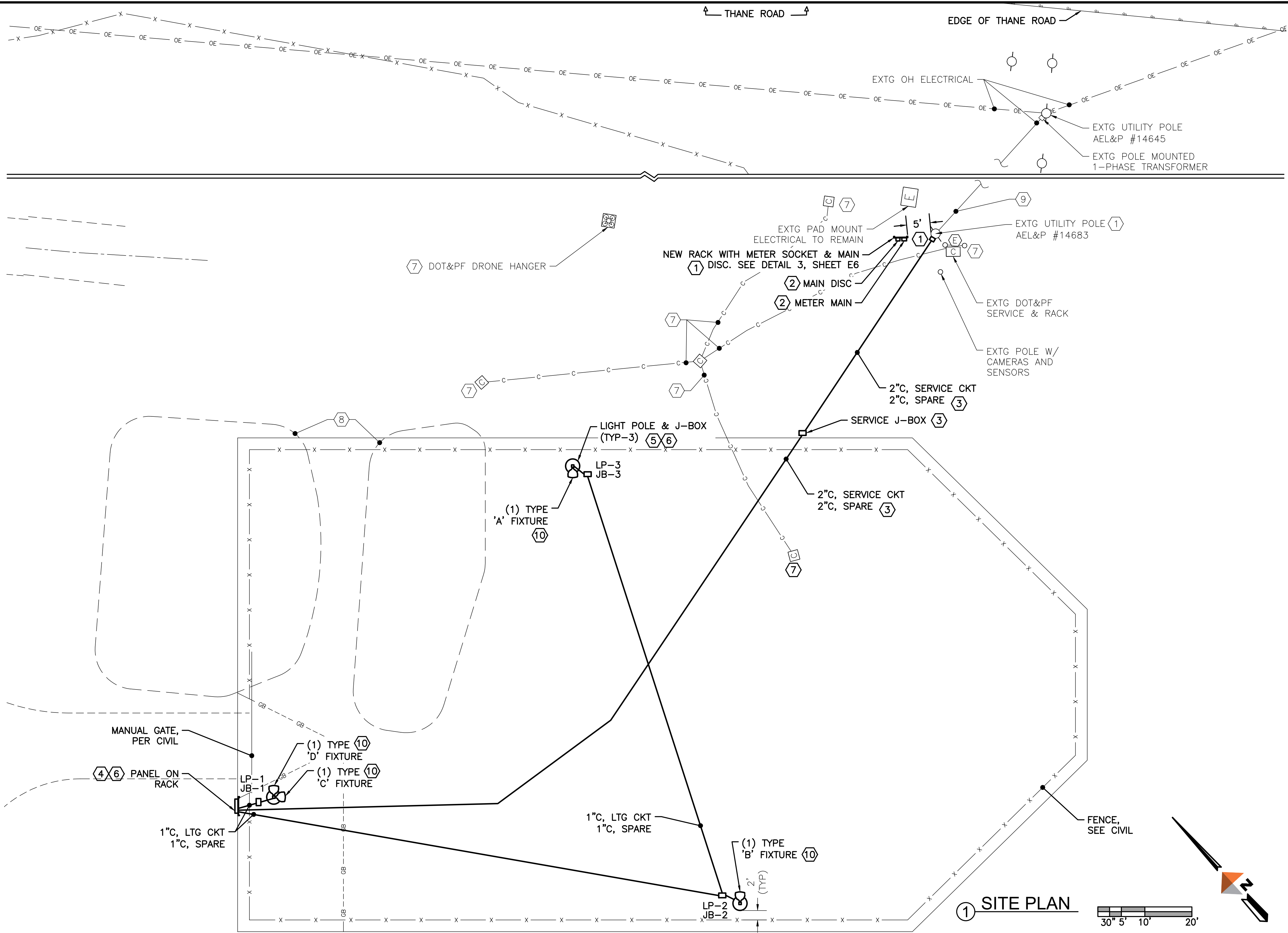
E1

PROJECT 2670.80611.02
DATE 12/11/25
SHEET
E1

y:\129 dowl engineering\43 cbj little rock dump\working drawings\ELECTRIC VEHICLE CHARGER SITE PLAN.dwg PLOT DATE 2025-12-11 10:49 SAVED DATE 2025-12-11 09:39 USER: jodi

KEYNOTES:

- 1
- COORDINATE WITH AEL&P TO PROVIDE A NEW OH SERVICE FROM EXISTING POLE TRANSFORMER AT POLE AEL&P #14645 AND A NEW UTILITY RISER AT EXISTING POLE AEL&P #14683. CONTINUE TO NEW UTILITY RACK PROVIDED BY CONTRACTOR. EXACT DISTANCE FROM UTILITY POLE TO BE COORDINATED WITH OWNER & AEL&P PRIOR TO WORK.
- 2
- PROVIDE A NEW NEMA 4X FUSED DISCONNECT AND METER SOCKET AT NEW RACK ADJACENT TO EXISTING UTILITY POLE AEL&P #14683. COORDINATE WORK WITH AEL&P.
- 3
- ROUTE FEEDER CONDUIT FROM UTILITY RACK TO NEW PANEL AT RACK ACROSS PROJECT SITE. ADJUST ROUTE IF REQUIRED FROM WHAT IS SHOWN.
- 4
- PROVIDE A NEW PANEL IN OVERALL STAINLESS STEEL ENCLOSURE ON NEW HDG RACK AT ENTRANCE TO FENCED YARD. SEE DETAIL 2, SHEET E6 FOR ELEVATION.
- 5
- NEW AREA LIGHT POLE AND JUNCTION BOX, SEE DETAIL 1, SHEET E5 FOR LIGHTING DETAILS.
- 6
- NEW RACK AND AREA LIGHT POLE AND JUNCTION BOX LOCATIONS TO BE CONFIRMED WITH OWNER PRIOR TO WORK.
- 7
- EXISTING DOT&PF SEISMIC MONITORING SYSTEM. CONSISTS PRIMARILY OF SURFACE MOUNTED PVC CONDUIT AND CONDUCTORS AND SURFACE MOUNT SENSOR BOXES. TO BE RELOCATED BY OTHERS. DO NOT TOUCH THIS SYSTEM.
- 8
- APPROXIMATE LOCATION OF EXISTING SLUDGE CELL. DO NOT ROUTE NEW CONDUITS THROUGH THIS ZONE. DO NOT INSTALL ELECTRICAL WITHIN THIS ZONE.
- 9
- EXISTING 1-PHASE OH SERVICE TO REMAIN, NEW 120/240V, 1-PHASE OH SERVICE FROM EXISTING TRANSFORMER ON POLE AEL&P #14645 WORK BY UTILITY.
- 10
- PROVIDE THE SPECIFIC FIXTURE TYPES NOTED AT EACH LOCATION FOR PROPER LIGHT DISTRIBUTION. SEE SHEET E4 FOR THE LUMINAIRE SCHEDULE.



ADDITIVE ALTERNATE NO. 1

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ENGINEERING GROUP INC.
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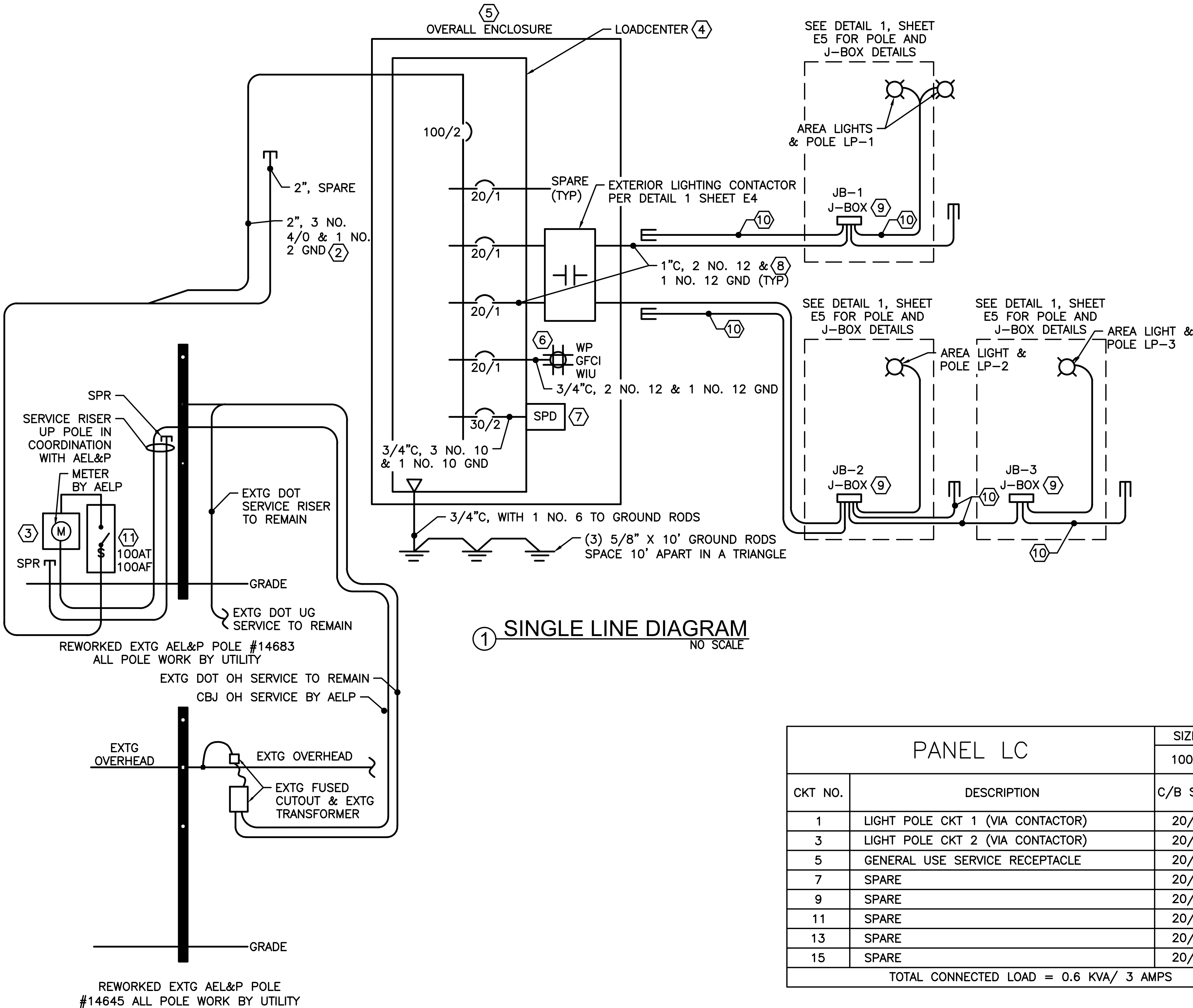


LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015
SITE PLAN

PROJECT 2670.80611.02
DATE 12/11/25

SHEET
E2

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SHEET NOTE:

SEE SHEET E1 FOR LEGEND AND GENERAL NOTES APPLICABLE

KEYNOTES:

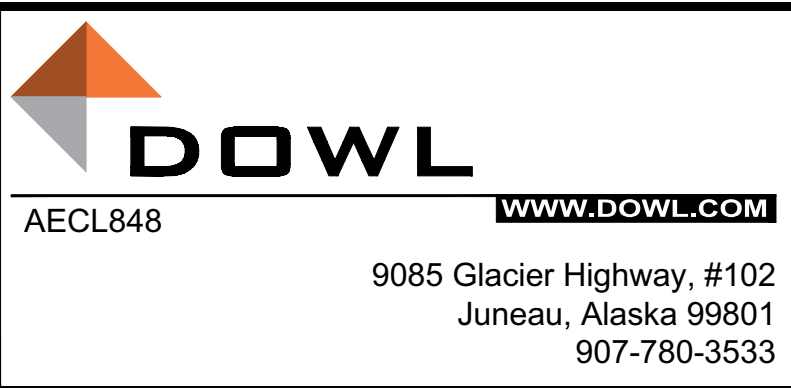
- ① AEL&P TO PROVIDE NEW POLE TRANSFORMER, FUSED CUTOUT, AND RISER FOR PROJECT SERVICE.
- ② SERVICE TO RACK MOUNTED PANEL. COORDINATE CONDUIT WORK WITH UTILITY.
- ③ RINGED STYLE SINGLE METER SOCKET WITH UNDERGROUND CONNECTION. 200A RATED, 4-JAW, 3-WIRE, TYPE 304 STAINLESS STEEL. EATON U204MS21SS OR EQUAL. MOUNT TO RACK STRUT. SEE DETAIL 3, SHEET E6.
- ④ LOADCENTER IN NEMA 1 ENCLOSURE WITH MAIN BREAKER. 120/240V, 100A, 1PH, 3-WIRE, 16 CIRCUIT PANELBOARD. SQUARE D QO116M100P WITH GROUND BAR. OR EQUAL. MOUNT TO BACK WALL OF THE OVERALL ENCLOSURE. CIRCUIT BREAKERS PER PANEL SCHEDULE, THIS SHEET.
- ⑤ NEMA 4X 316 SS OVERALL ENCLOSURE WITH HINGED & LOCKABLE DOOR. 36"H X 36"W X 12"D, HAMMOND HW363612S16HK OR EQUAL. PROVIDE WITH INNER BACK WALL MOUNTING PANEL 18G3333 OR EQUAL. PROVIDE FAN FORCED HEATER IN ENCLOSURE WITH HUMIDSTAT.
- ⑥ PROVIDE 20A, 120V, HD RECEPTACLE IN SM ENCLOSURE MOUNTED INSIDE OVERALL ENCLOSURE.
- ⑦ PROVIDE SURGE PROTECTION DEVICE (SPD) MOUNTED TO SIDE OF PANEL AND NIPPLE FEED WITH A DEDICATED 30/2 BREAKER. TYPE 1 SPD, 50KA RATED, 6 MODES (L-L, L-N, L-G, N-G). SQUARE D HEPD50 OR EQUAL. KEEP CONDUCTORS TO DEVICE AS SHORT AND STRAIGHT AS POSSIBLE. MOUNT SPD DIRECTLY ACROSS FROM ITS FEEDER BREAKER.
- ⑧ PROVIDE UNDERGROUND CONDUITS IN COMMON TRENCH WHERE PRACTICAL. SEE DETAIL 1, SHEET E6 FOR TRENCH DETAIL.
- ⑨ J-BOX ADJACENT TO LIGHT POLE. SEE DETAIL 1, SHEET E5 FOR J-BOX DETAIL.
- ⑩ 1"C, SPARE, WITH PULLSTRING. STUB AND CAP IN ALL J-BOXES AND LIGHT POLE.
- ⑪ FUSED DISCONNECT, 100A, 600V, 3-POLE, NEMA 4X, WITH CLASS RK FUSES SIZED AS SHOWN. SQUARE D VH363SSGL OR EQUAL. SEE DETAIL 3, SHEET E6.

PANEL LC		SIZE	VOLTS, PHASE			MOUNTING	MAIN	LOCATION	
		100A	120/240V, 1φ, 3W			SURFACE	100/2	EXTERIOR ENCLOSURE ON RACK	
CKT NO.	DESCRIPTION	C/B SIZE	KVA				C/B SIZE	DESCRIPTION	CKT NO.
			CKT	Aφ	Bφ	CKT			
1	LIGHT POLE CKT 1 (VIA CONTACTOR)	20/1	0.2	0.2		0.0	100/2	BRANCH MOUNTED MAIN	2
3	LIGHT POLE CKT 2 (VIA CONTACTOR)	20/1	0.2		0.2	0.0	-	-	4
5	GENERAL USE SERVICE RECEPTACLE	20/1	0.2	0.2		0.0	20/1	SPARE	6
7	SPARE	20/1	0.0		0.0	0.0	20/1	SPARE	8
9	SPARE	20/1	0.0	0.0		0.0	20/1	SPARE	10
11	SPARE	20/1	0.0		0.0	0.0	20/1	SPARE	12
13	SPARE	20/1	0.0	0.0		0.0	30/2	SURGE PROTECTIVE DEVICE	14
15	SPARE	20/1	0.0		0.0	0.0	-	-	16
TOTAL CONNECTED LOAD = 0.6 KVA/ 3 AMPS				0.4	0.2	NOTE: ALL BREAKERS SHALL BE MINIMUM 10KAIC RATED			

ADDITIVE ALTERNATE NO. 1



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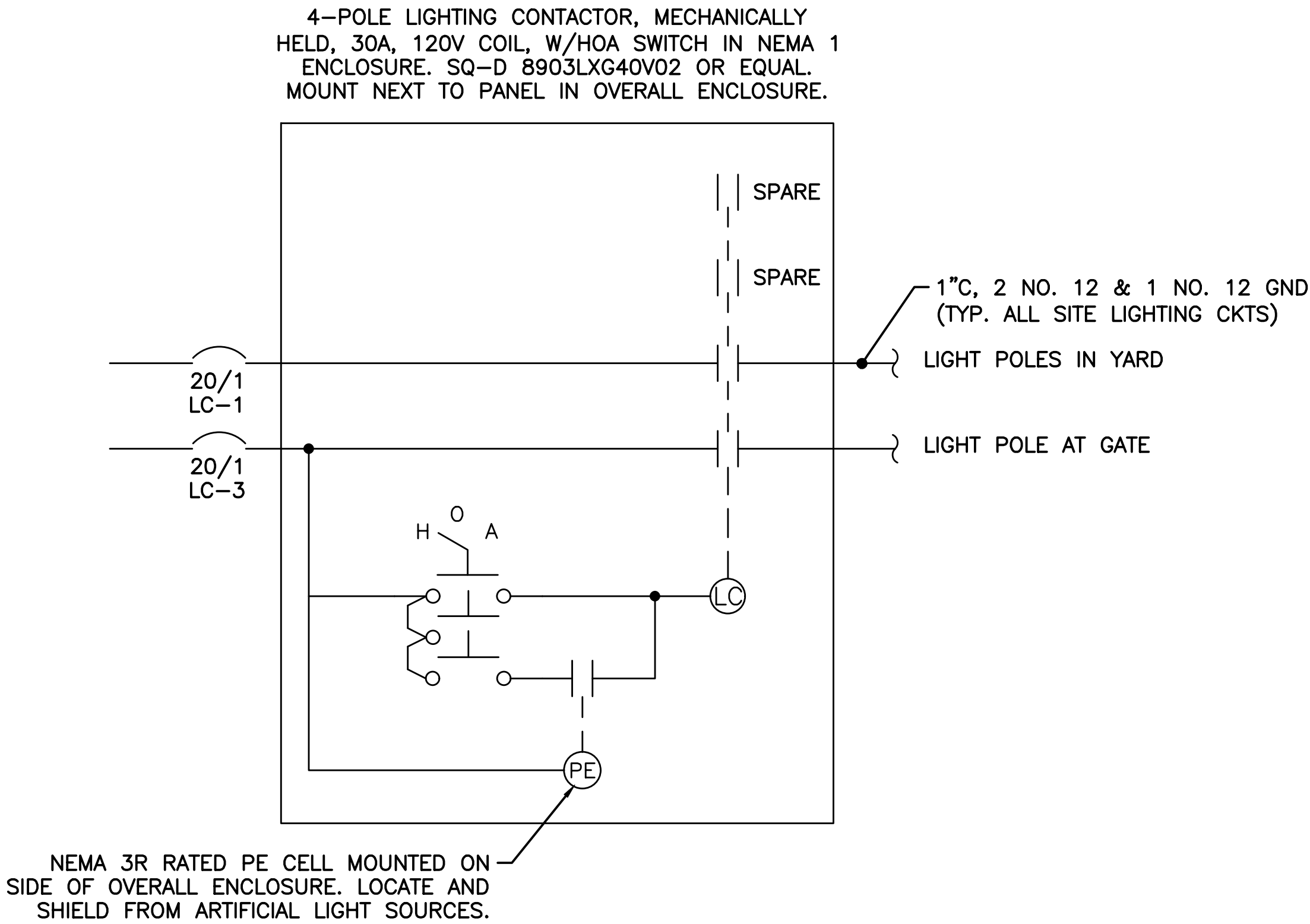
LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015
SINGLE LINE & PANEL SCHEDULE

PROJECT 2670.80611.02 DATE 12/11/25
SHEET E3

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LUMINAIRE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	LED CCT & LUMENS	LOCATED ON LIGHT POLE	REMARKS
A	POLE MOUNT, CUTOFF LED LUMINAIRE. NO LIGHT ABOVE 65° ABOVE NADIR, TYPE III MEDIUM DISTRIBUTION	LITHONIA D-SERIES SIZE 0, DSX0 LED P7 40K 70CRI T3M MVOLT EGSR DBLXD HS	4000K (20,000 LUMENS)	LP-3	POLE MOUNT TO NEW SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. NO LIGHT ABOVE 65° ABOVE NADIR. PROVIDE ALL FIXTURES WITH FIELD INSTALLABLE HOUSE SIDE SHIELD. POSITION OF SHIELD TO BE CONFIRMED WITH OWNER AFTER INSTALLATION AND TESTING OF LIGHTING SYSTEM.
B	POLE MOUNT, CUTOFF LED LUMINAIRE. NO LIGHT ABOVE 65° ABOVE NADIR, TYPE IV MEDIUM DISTRIBUTION	LITHONIA D-SERIES SIZE 0, DSX0 LED P7 40K 70CRI T4M MVOLT EGSR DBLXD HS	4000K (20,000 LUMENS)	LP-2	POLE MOUNT TO NEW SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. NO LIGHT ABOVE 65° ABOVE NADIR. PROVIDE ALL FIXTURES WITH FIELD INSTALLABLE HOUSE SIDE SHIELD. POSITION OF SHIELD TO BE CONFIRMED WITH OWNER AFTER INSTALLATION AND TESTING OF LIGHTING SYSTEM.
C	POLE MOUNT, CUTOFF LED LUMINAIRE. NO LIGHT ABOVE 65° ABOVE NADIR, FORWARD THROW DISTRIBUTION	LITHONIA D-SERIES SIZE 0, DSX0 LED P2 40K 70CRI TFTM MVOLT EGSR DBLXD HS	4000K (6,000 LUMENS)	LP-1 FACING EAST	POLE MOUNT TO NEW SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. NO LIGHT ABOVE 65° ABOVE NADIR. PROVIDE ALL FIXTURES WITH FIELD INSTALLABLE HOUSE SIDE SHIELD. POSITION OF SHIELD TO BE CONFIRMED WITH OWNER AFTER INSTALLATION AND TESTING OF LIGHTING SYSTEM.
D	POLE MOUNT, CUTOFF LED LUMINAIRE. NO LIGHT ABOVE 65° ABOVE NADIR, TYPE IV MEDIUM DISTRIBUTION	LITHONIA D-SERIES SIZE 0, DSX0 LED P3 40K 70CRI T4M MVOLT EGSR DBLXD HS	4000K (8,500 LUMENS)	LP-1 FACING NORTH	POLE MOUNT TO NEW SQUARE POLE. PROVIDE WITH NIXALITE BIRD CONTROL. ATTACH WITH MANUFACTURER RECOMMENDED ADHESIVE. NO HOLES IN HOUSING. NO LIGHT ABOVE 65° ABOVE NADIR. PROVIDE ALL FIXTURES WITH FIELD INSTALLABLE HOUSE SIDE SHIELD. POSITION OF SHIELD TO BE CONFIRMED WITH OWNER AFTER INSTALLATION AND TESTING OF LIGHTING SYSTEM.
NOTES: 1. THE PART NUMBERS IN THE LUMINAIRE SCHEDULE MAY NOT BE COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL PARTS AND ACCESSORIES NECESSARY TO COMPLY WITH THE FEATURES SHOWN IN THE LUMINAIRE SCHEDULE (INCLUDING THE MOUNTING) AND AS SHOWN ON THE OTHER PLAN SHEETS, AND IN THE SPECIFICATIONS. 2. PROVIDE THE LUMINAIRES SHOWN OR APPROVED EQUAL. A SUBSTITUTE LUMINAIRE SHALL HAVE EQUIVALENT PHOTOMETRIC PERFORMANCE AS WELL AS THE SAME QUALITY, FEATURES, FUNCTIONALITY, ATTRIBUTES, ETC. AS THE SPECIFIED LUMINAIRE INCLUDING THE REQUIREMENTS SHOWN ON THE PLANS AND INCLUDED IN THE SPECIFICATIONS. IF IT DOES NOT, IT WILL BE REJECTED AS AN EQUAL TO THE SPECIFIED LUMINAIRE. PHOTOMETRIC FILES SHALL BE PROVIDED (*.IES) ALONG WITH CATALOG CUT SHEETS DURING SUBMITTALS AND THE LIGHTING DESIGN WILL BE CHECKED BY THE DESIGNER USING THE SUBSTITUTE LUMINAIRE. IF AN EQUIVALENT LIGHT LEVEL AND UNIFORMITY AS WELL AS GLARE CONTROL IS NOT ACHIEVED, THE SUBSTITUTE LUMINAIRE WILL BE REJECTED AS AN EQUAL TO THE SPECIFIED LUMINAIRE. 3. SEE SHEET E5 FOR POLE DETAIL & MOUNTING INFO SHEET E2 FOR POLE LOCATIONS AND FIXTURE CALL OUTS BY TYPE. 4. PROVIDE POLE LIGHT FIXTURES PROTECTED UPSTREAM FUSING AND SPD UNITS INSTALLED IN POLE. SEE WIRING DIAGRAM ON SHEET E5. 5. PROVIDE ONE SPARE OF EACH FIXTURE TYPE.					



1 EXTERIOR LIGHTING SCHEMATIC
NO SCALE

ADDITIVE ALTERNATE NO. 1



REVISIONS			
REV	DATE	DESCRIPTION	BY





AECL848

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9085 Glacier Highway, #102
Juneau, Alaska 99801
907-780-3533



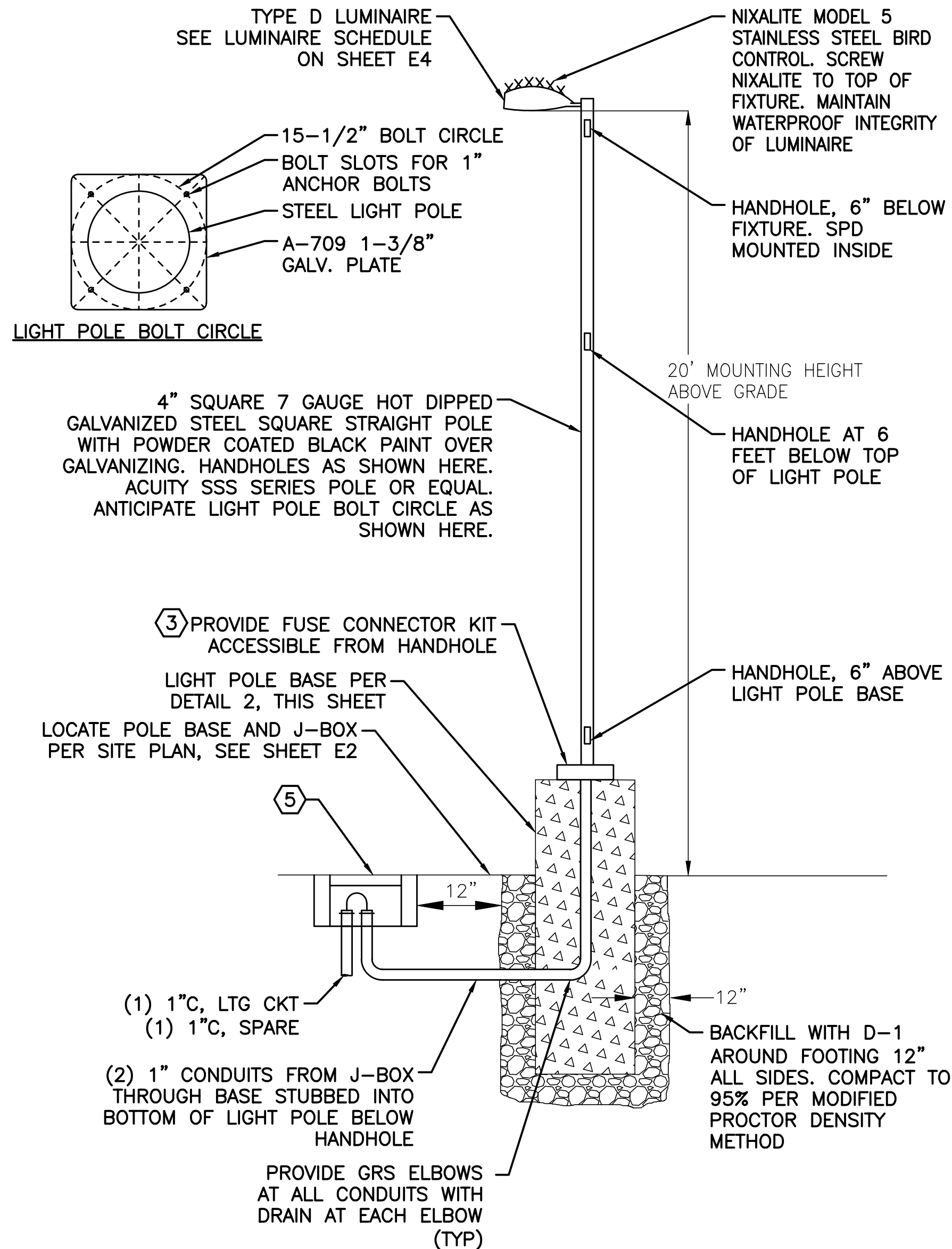
LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015

LUMINAIRE SCHEDULE & LIGHTING SCHEMATIC

PROJECT 2670.80611.02
DATE 12/11/25

SHEET
E4

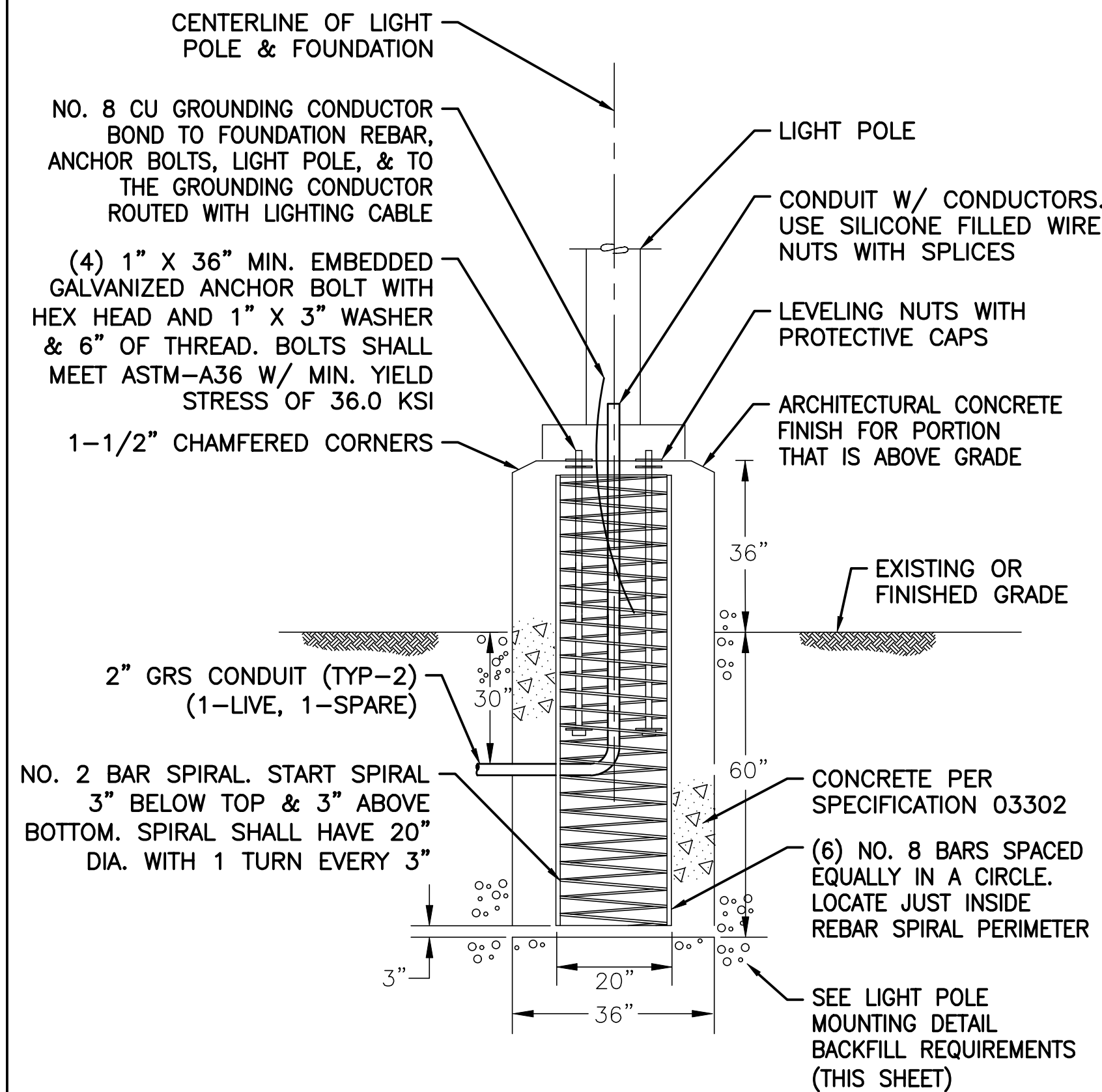
x:\129 dowl engineering\43 cbj little rock dump\working drawings\ELECTRIC VEHICLE CHARGER AREA LIGHTING DETAIL.dwg PLOT DATE 2025-12-11 10:49 SAVED DATE 2025-12-11 09:18 USER: jodi



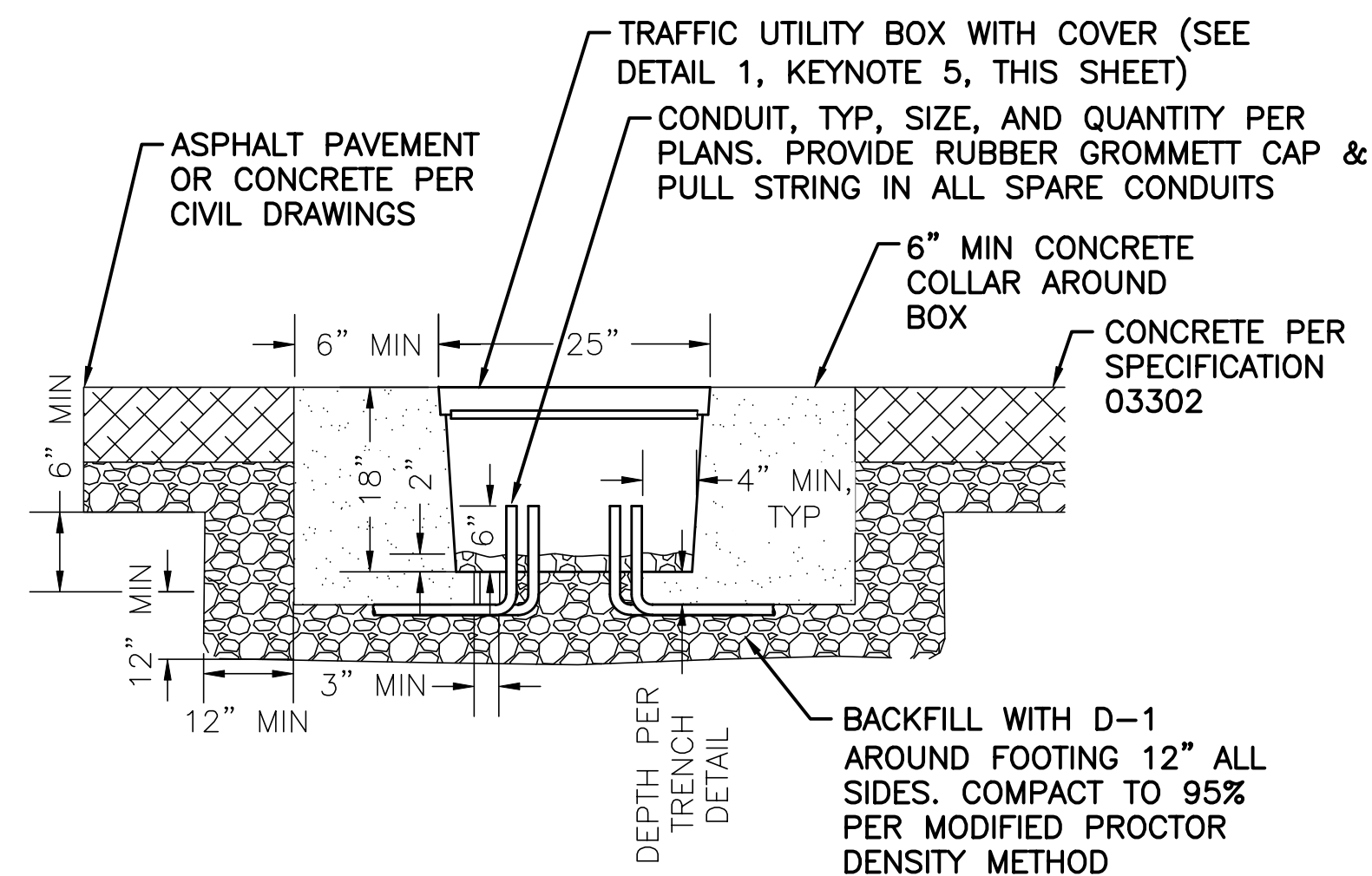
SHEET NOTES (APPLICABLE TO DETAIL 1 & 2):

- ALL SPLICES SHALL BE IN BASE OF LIGHT POLE.
- PROVIDE GROUNDING BUSHINGS ON ALL CONDUIT.
- PROVIDE FUSE KITS IN EACH LIGHT POLE BASE ACCESSIBLE FROM BOTTOM HANDHOLE AND SPD AT TOP OF LIGHT POLE. SEE DETAIL 5, THIS SHEET, FOR MORE INFORMATION.
- SIZE LIGHT POLE WITH LUMINAIRES FOR 120 MPH SUSTAINED WINDS WITH GUSTS TO 150 MPH. LIGHT POLE DIMENSIONS SHOWN ARE A MINIMUM. PROVIDE CALCULATIONS SHOWING COMPLIANCE SEALED BY CIVIL ENGINEER REGISTERED IN ALASKA.
- TIER 22, OPEN BOTTOM, 13" X 22" X 18" NOMINAL BOX WITH HEX BOLT LID, 'LIGHTING' ON COVER. HUBBELL QUAZITE PG1324BA18 WITH PG1324HH0029 COVER OR EQUAL. SEE DETAIL 3, THIS SHEET.
- LOCATE TOP OF BASE 3' ABOVE FINISHED GRADE PER LIGHT POLE BASE DETAIL 2, THIS SHEET.

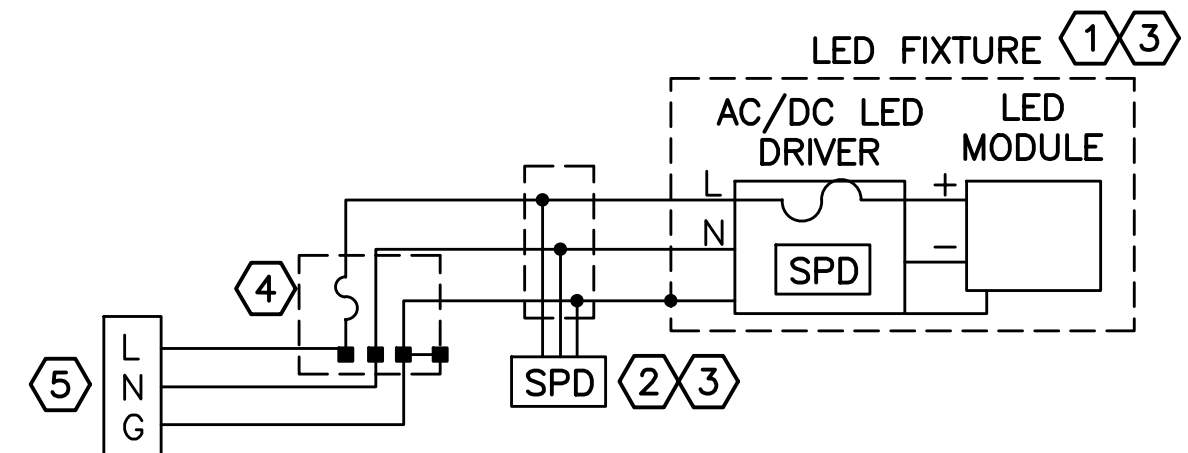
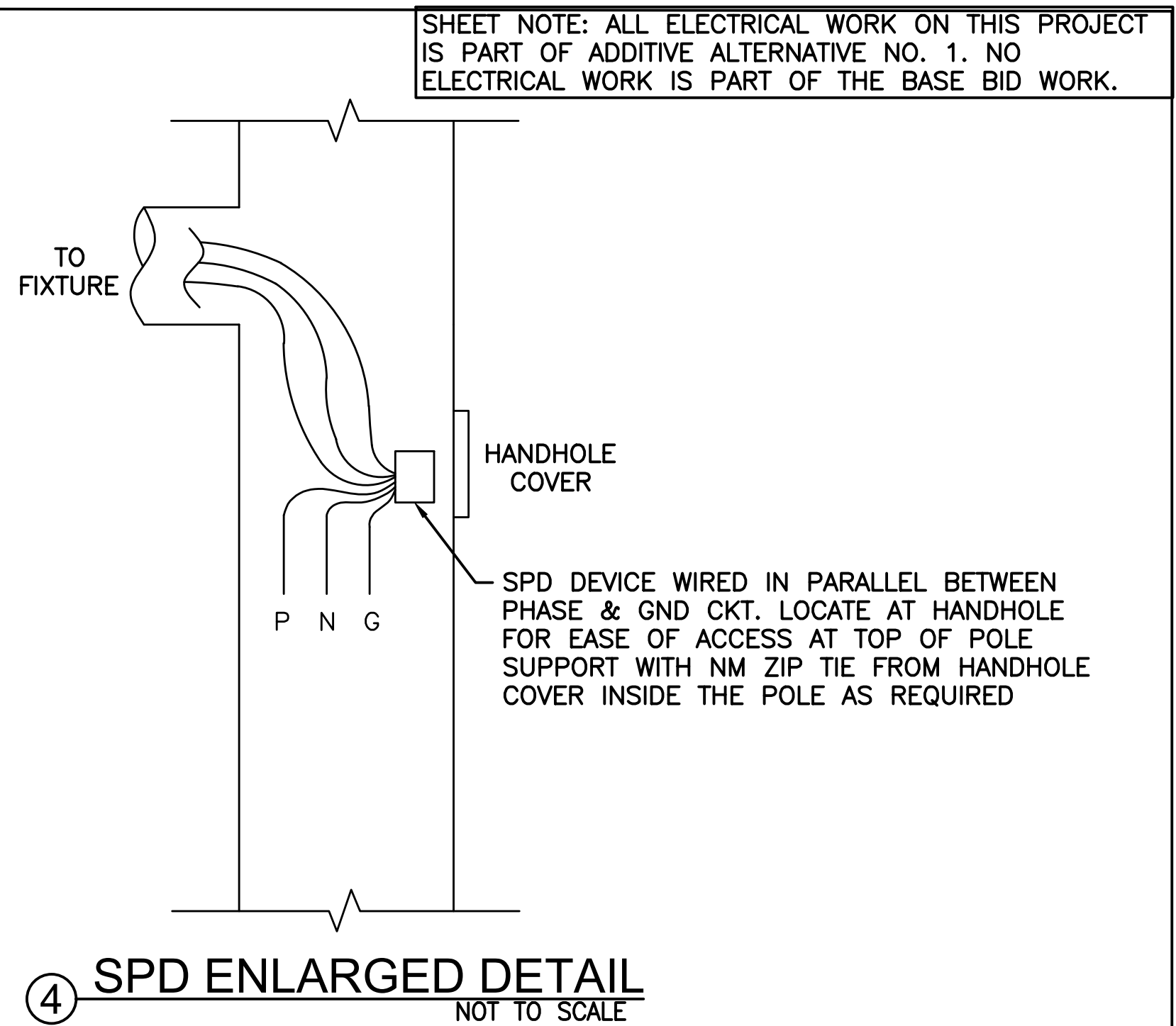
1 LIGHT POLE MOUNTING DETAIL
NO SCALE



2 LIGHT POLE BASE DETAIL
NO SCALE



3 HANDHOLE DETAIL
NO SCALE



SHEET NOTES (APPLICABLE TO DETAIL 5):

- KEEP WIRES AS STRAIGHT AND SHORT AS POSSIBLE.
- ROUND WIRES RATHER THEN BENDING AT A HARD 90 DEGREE ANGLE.
- DO NOT CROSS OR OVERLAP PROTECTED WIRES (THOSE AFTER THE SPD, EITHER AC OR DC WIRES).
- ONLY ONE EXTERNAL SPD REQUIRED PER POLE, REGARDLESS OF THE NUMBER OF FIXTURE HEADS ON THE POLE.
- SEE DETAIL 1, THIS SHEET FOR POLE ELEVATION AND MORE ON SPD AND FUSE HOLDER MOUNTING.
- SEE DETAIL 4, THIS SHEET, FOR SPD INSTALLATION AT TOP OF POLE.

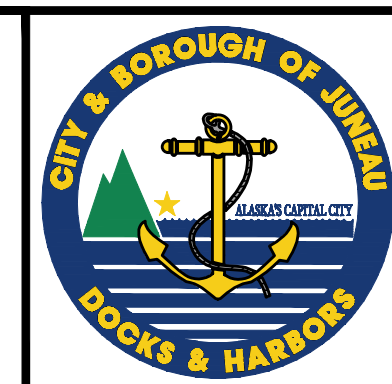
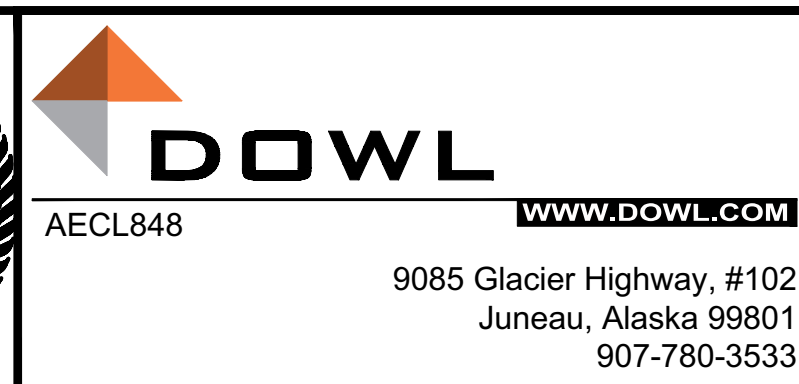
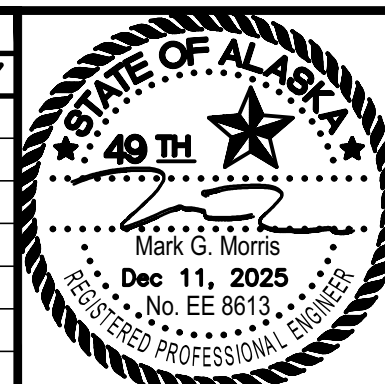
KEYNOTES (APPLICABLE TO DETAIL 5):

- OVERALL LED FIXTURE WITH FUSED DRIVER FURNISHED WITH INTEGRAL AND INTERNAL SPD.
- CIRCUIT EXTERNAL LED FIXTURE SPD AS SHOWN. MAKE PARALLEL CONNECTION INTO CIRCUIT. SIZE MATCHED TO CIRCUIT CONDUCTORS SIZES. SPD SHALL BE LITTLEFUSE LSP10 OR EATON MTL LS10N OR EQUAL. SPD TO INCLUDE OPTIONAL END OF LIFE INDICATOR LED.
- CO-LOCATE EXTERNAL SPD WITHIN LIGHT FIXTURE HOUSING IF ACCEPTABLE TO FIXTURE MANUFACTURER. OTHERWISE INSTALL WITHIN POLE IMMEDIATELY ADJACENT TO FIXTURE MOUNTING LOCATION.
- FINGER SAFE FUSE HOLDER AT BASE OF LIGHT POLE ACCESSIBLE FROM BASE HANDHOLE. SEC 1791-SF OR EATON HEZ-AA. PROVIDE WITH CLASS CC FAST ACTING FUSE SIZED PER SELECTED FIXTURE LOAD REQUIREMENT.
- SOURCE PANEL PER PLANS.

ADDITIVE ALTERNATE NO. 1



REVISIONS			
REV	DATE	DESCRIPTION	BY

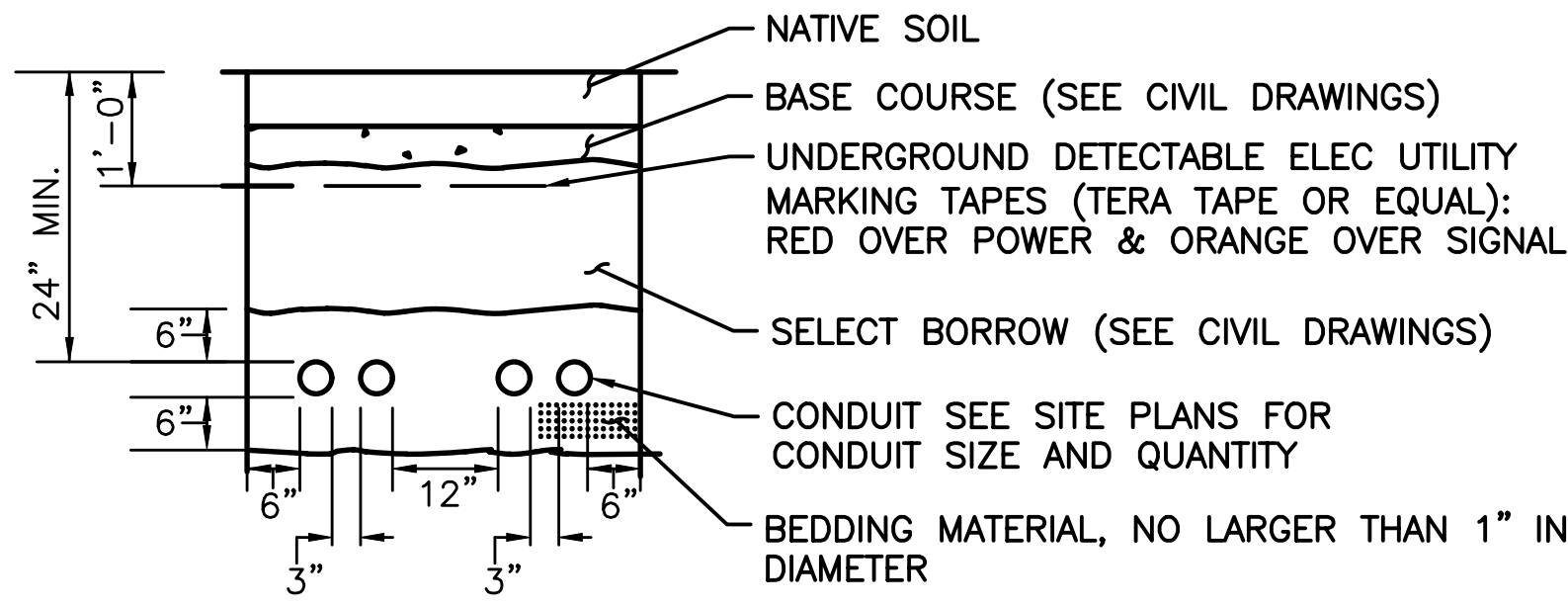


LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015
AREA LIGHTING DETAILS

PROJECT 2670.80611.02 DATE 12/11/25
SHEET E5

x:\129 dowl engineering\43 cbj little rock dump\working drawings\ELECTRIC VEHICLE CHARGER SITE DETAILS.dwg PLOT DATE 2025-12-11 10:49 SAVED DATE 2025-12-11 09:24 USER: jodi

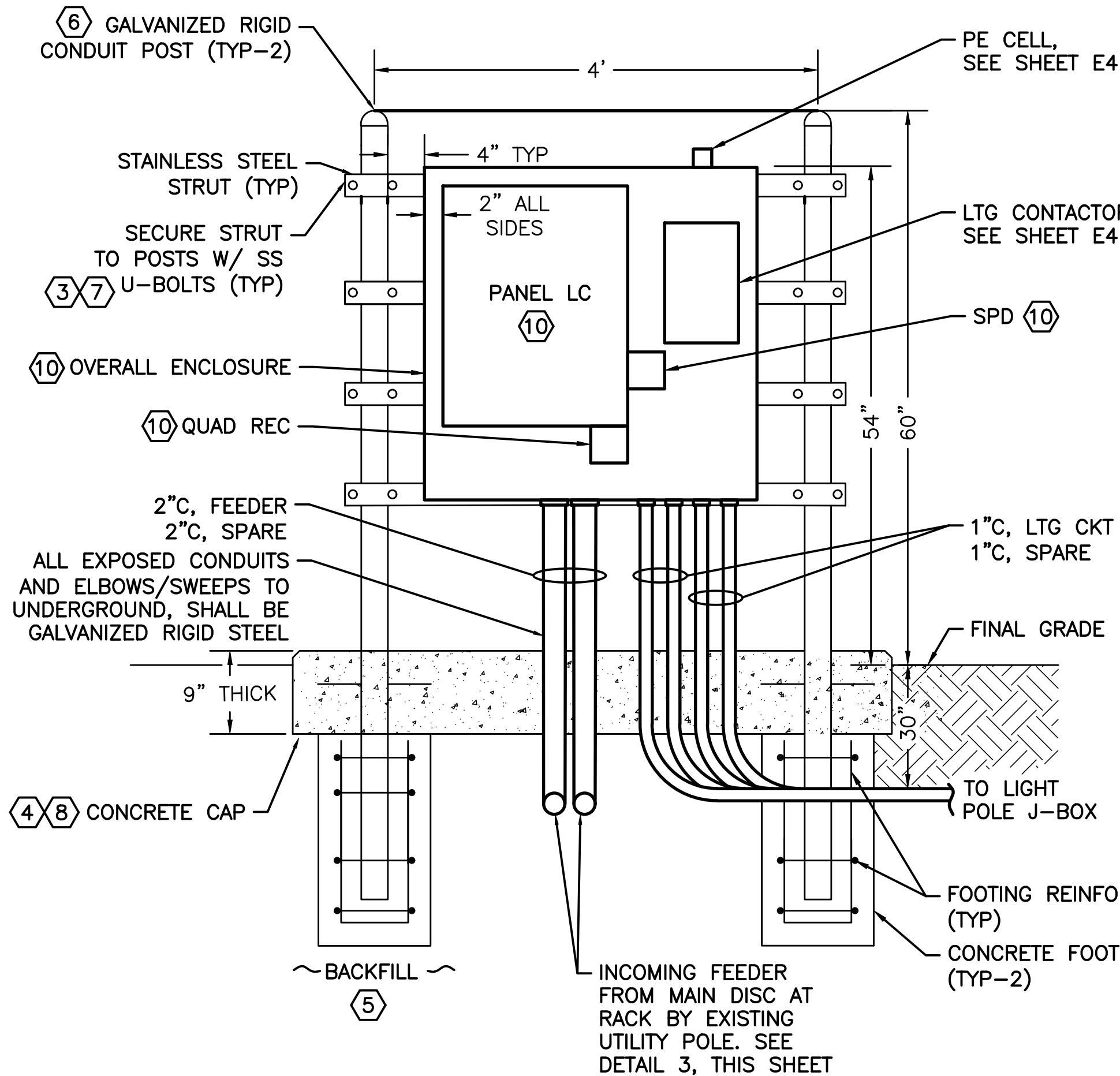
SHEET NOTE: ALL ELECTRICAL WORK ON THIS PROJECT IS PART OF ADDITIVE ALTERNATIVE NO. 1. NO ELECTRICAL WORK IS PART OF THE BASE BID WORK.



1 TRENCH DETAIL
NO SCALE

SHEET NOTES (APPLICABLE TO DETAIL 1):

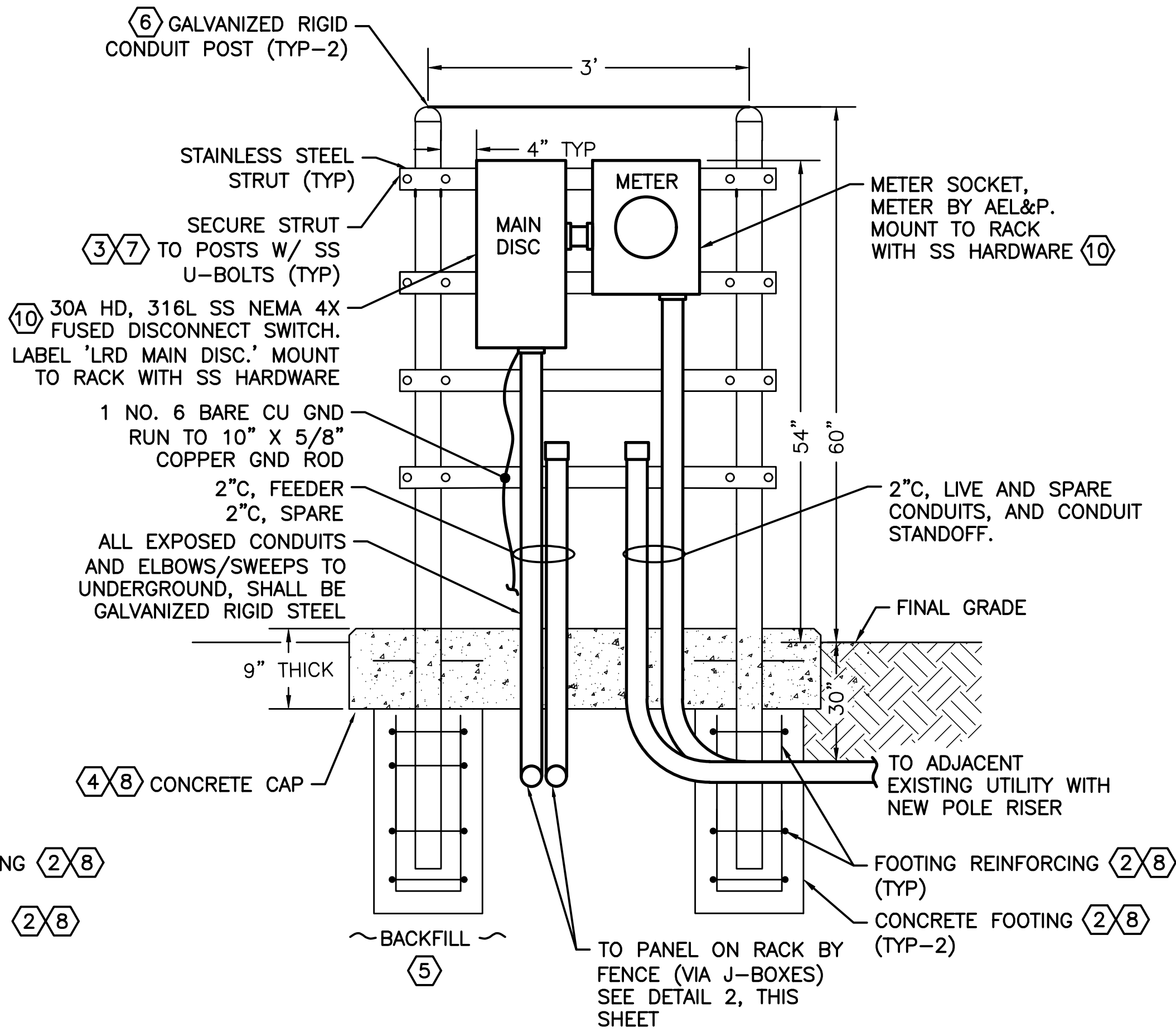
- ALL DIMENSIONS ARE MINIMUM.
- MODIFY CONDUIT BURIAL DEPTH WHERE SHOWN ON DRAWINGS AND AS REQUIRED TO AVOID ALL OBSTACLES. ROUTE BELOW OBSTACLES.
- THE LOCATION OF ALL EXISTING UNDERGROUND PIPING, CONDUIT, ETC MAY NOT BE WHERE SHOWN ON THE PLANS OR MAY NOT BE SHOWN AT ALL. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO DIGGING. DIG WITH CAUTION. AVOID WATER, SEWER, DRAINAGE PIPES AND OTHER CONFLICTS.
- MAINTAIN 12 INCHES MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND OTHER, PIPES, ETC.
- CONDUITS SHALL BE BURIED AT A MINIMUM OF 24". BURY CONDUITS DEEPER WHERE REQUIRED TO AVOID OTHER PIPES AND STRUCTURES.
- PERFORM ALL TRENCH EXCAVATION, BACKFILL, AND COMPACTION PER CIVIL DRAWINGS AND SPECIFICATIONS.



2 PANEL ELEVATION
NO SCALE

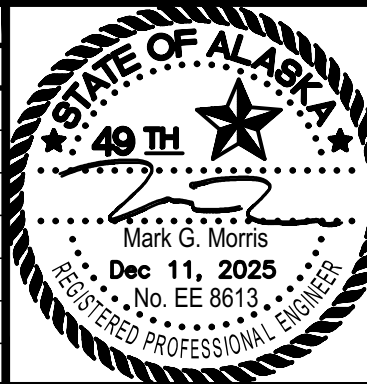
SHEET NOTES (APPLICABLE TO DETAILS 2 & 3):

- PROVIDE APPROVAL DRAWINGS FOR CHANNEL STRUT RACK DURING THE SUBMITTAL PROCESS. DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION: DIMENSIONS, WEIGHTS, DETAILS, REINFORCING, SEGMENTS LENGTHS AND SIZES, ENCLOSURE LAYOUTS TO SCALE, AND CONDUIT LOCATIONS.
- 12" DIAMETER X 4' DEEP CONCRETE FOOTINGS. PROVIDE WITH REINFORCING AS FOLLOWS: (4) #4 VERTICAL AND #3 CIRC. TIES AT 12" O.C. (2-TIES NEAR TOP).
- ALL CHANNEL STRUT TO BE STAINLESS STEEL. ALL POSTS AND CONDUIT TO BE GALVANIZED RIGID STEEL. TREAT ALL FIELD CUT STRUT AND CONDUIT SEGMENTS WITH GREY GALVANIC TOUCH UP PAINT TO INHIBIT CORROSION.
- PROVIDE CONCRETE CAP AROUND POST PENETRATION INTO GRADE THAT EXTENDS 2" ABOVE GRADE, AND MINIMUM OF 2" PAST FOOTING BELOW ALL SIDES. PROVIDE CAP WITH EMBEDDED GALVANIZED WIRE MESH.
- PROVIDE NATIVE SOIL OR APPROVED IMPORTED BACKFILL. COMPACT A MINIMUM OF 12" ALL SIDES OF FOOTINGS TO 95% PER MODIFIED PROCTOR DENSITY METHOD.
- 4" DIAMETER X 8' TALL HOT DIPPED GRS CONDUIT POST FILLED WITH CONCRETE. BURY 3' INTO GROUND (TYP-2).
- 1-1/2" STAINLESS STEEL CHANNEL STRUT. MOUNT STRUT TO POSTS AND EQUIPMENT TO STRUT.
- MAINTAIN ALL METAL REINFORCING A MINIMUM OF 3" DISTANCE FROM EDGE OF CONCRETE FORMS.
- ALL MOUNTING HARDWARE TO BE STAINLESS STEEL.
- SEE DETAIL 1, SHEET E3 FOR SINGLE LINE DIAGRAM AND COMPLETE DESCRIPTIONS.



3 UTILITY MAIN DISCONNECT ELEVATION
NO SCALE

ADDITIVE ALTERNATE NO. 1



LITTLE ROCK DUMP SECURE STORAGE
CONTRACT NO. DH26-015
RACK ELEVATIONS & TRENCH DETAILS

PROJECT 2670.80611.02
DATE 12/11/25
SHEET
E6