

CONSTRUCTION DOCUMENTS

CONTAINER TERMINAL - LIGHTING UPGRADES

FOR THE

CITY OF VALDEZ

PREPARED BY:

RSA

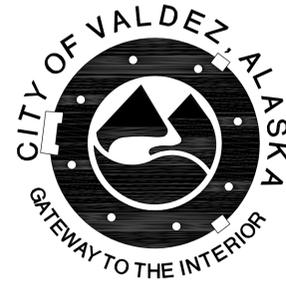
Engineering, Inc.

MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS

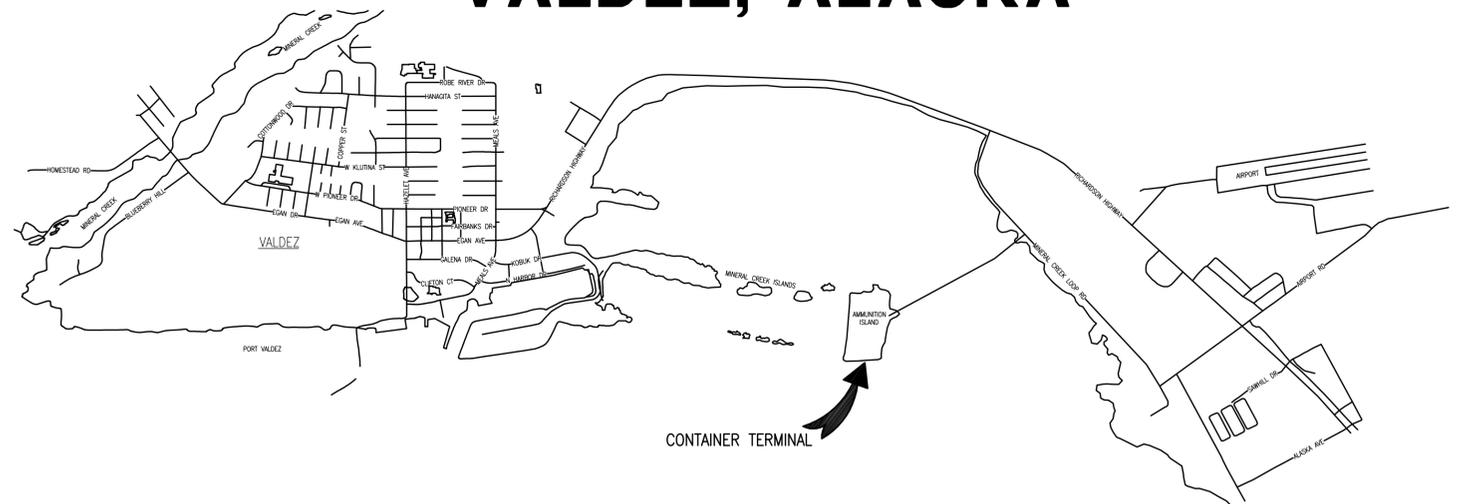
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VALDEZ, ALASKA



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ELECTRICAL

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SUMMARY OF WORK:

PROJECT INCLUDES THE DEMOLITION OF EXISTING HIGH MAST LIGHTING FIXTURES AND INSTALLATION OF NEW REPLACEMENT LED FIXTURES.



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VALDEZ CONTAINER TERMINAL
VALDEZ, ALASKA

REVISIONS:

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DRAWING TITLE:
 LEGEND, FIXTURE
 SCHEDULE, AND
 SPECIFICATIONS

SHEET:
E0.1

LIGHT FIXTURE SCHEDULE

TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS	BALLAST/DRIVER	TOTAL INPUT WATTS
				TYPE	HEIGHT			
A15	AS SHOWN, REFERENCE E2.1	APACK #F640A 15D	14.29"Ø x 17.74"L EXTERIOR HIGHMAST FLOOD LIGHT, 29.2 LBS, 1.49 EPA, 15 DEGREE LENS.	POLE	SEE PLANS	4000K LED 70,400LM	ELECTRONIC 480V,1Ø	640
A30	AS SHOWN, REFERENCE E2.1	APACK #F640A 30D	SAME AS TYPE 'A' EXCEPT 30 DEGREE LENS AND OUTPUT.	POLE	SEE PLANS	4000K LED 70,400LM	ELECTRONIC 480V,1Ø	640
A45	AS SHOWN, REFERENCE E2.1	APACK #F640A 45D	SAME AS TYPE 'A' EXCEPT 45 DEGREE LENS AND OUTPUT.	POLE	SEE PLANS	4000K LED 70,400LM	ELECTRONIC 480V,1Ø	640
A60	AS SHOWN, REFERENCE E2.1	APACK #F640A 60D	SAME AS TYPE 'A' EXCEPT 60 DEGREE LENS AND OUTPUT.	POLE	SEE PLANS	4000K LED 70,400LM	ELECTRONIC 480V,1Ø	640
B	AS SHOWN, REFERENCE E2.1	HOLOPHANE #HMLD3 PK4 40K HVOLT G F	23"W x 27"L x 10"H EXTERIOR HIGHMAST LIGHT, GRAY FINISH, FORWARD ASYMMETRIC THROW, 52LBS, 1.30 EPA	POLE	SEE PLANS	4000K LED 85,000LM	ELECTRONIC 347-480V,1Ø	627
C	AS SHOWN	AMERICAN ELECTRIC LIGHTING #ATBM H MVOLT R2	13"W x 28"L x 4.5"H ROADWAY FIXTURE, TYPE II DISTRIBUTION, GRAY FINISH, 10kv/5ka SURGE PROTECTION.	POLE	30'-0"	4000K LED 18,085LM	ELECTRONIC 120-277V,1Ø	164

LEGEND			
	POLE MOUNTED AREA LIGHT - OUTDOORS, WEATHERPROOF	LED	LIGHT EMITTING DIODE
	NOTE TAG (No. INDICATES NOTE)	LM	LUMENS
AFG	ABOVE FINISHED GRADE	NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
E	DENOTES EXISTING ITEM	NTS	NOT TO SCALE
HPS	HIGH PRESSURE SODIUM	TYP	TYPICAL
K	KELVIN	UON	UNLESS OTHERWISE NOTED

SHEET NOTES:

- PROVIDE MOUNTING HARDWARE REQUIRED FOR MOUNTING ONTO EXISTING HIGH MAST HARDWARE. REFERENCE PHOTOS ON SHEET E3.1 FOR EXISTING CONDITIONS. FIELD VERIFY ALL REQUIRED MOUNTING BRACKETS AND HARDWARE PRIOR TO BEGINNING WORK.
- COORDINATE WITH MANUFACTURER AND/OR SUPPLIER TO PROVIDE NRTL LISTING FOR 480V, 1Ø LED DRIVER USED WITH FIXTURES SPECIFIED AT 480V, 1Ø.

ELECTRICAL SPECIFICATIONS

26.05.00 - COMMON WORK RESULTS FOR ELECTRICAL

A. SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.

B. STANDARDS, CODES AND REGULATIONS: COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE CODE INCLUDING ALL STATE AND LOCAL AMENDMENTS TO THESE CODES. COMPLY WITH THE LATEST PUBLISHED VERSION OF THE NECA STANDARD OF INSTALLATION.

C. DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. UNLESS SPECIFICALLY DIMENSIONED. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS TO THE ATTENTION OF THE ARCHITECT. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.

D. RECORD DRAWINGS: MARK UP A CLEAN SET OF DRAWINGS AS THE WORK PROGRESSES TO SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK WHICH WILL BECOME PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN.

E. WORKMANSHIP: INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS AND IN ACCORDANCE WITH NECA STANDARDS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, NEMA STANDARDS AND UNDERWRITERS LABORATORIES STANDARDS WHERE APPLICABLE.

F. SUBMITTALS: PROVIDE MATERIAL AND EQUIPMENT SUBMITTALS CONTAINING A COMPLETE LISTING OF MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS. INCLUDE CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. SUBMITTALS SHALL BE IN ELECTRONIC .PDF FORMAT, SEPARATE FROM WORK FURNISHED UNDER OTHER DIVISIONS. INDEX AND CLEARLY IDENTIFY ALL MATERIAL AND EQUIPMENT BY ITEM, NAME OR DESIGNATION USED ON THE DRAWINGS. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SUBMITTALS ARE NOT CHECKED FOR QUANTITY, DIMENSION, OR FOR PROPER OPERATION. WHERE DEVIATIONS OF A SUBSTITUTE PRODUCT OR SYSTEM PERFORMANCE HAVE NOT BEEN SPECIFICALLY NOTED IN THE SUBMITTAL BY THE CONTRACTOR, PROVISIONS OF A COMPLETE AND SATISFACTORY WORKING INSTALLATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

G. OPERATION AND MAINTENANCE MANUALS: PROVIDE INSTRUCTIONS AND A SCHEDULE OF PREVENTIVE MAINTENANCE IN TABULAR FORM FOR ALL ROUTINE CLEANING AND INSPECTION. PROVIDE INSTRUCTIONS FOR MINOR REPAIR OR ADJUSTMENTS REQUIRED FOR PREVENTIVE MAINTENANCE ROUTINES. PROVIDE MANUFACTURER'S DESCRIPTIVE LITERATURE INCLUDING APPROVED SHOP DRAWINGS COVERING DEVICES USED IN ANY CONTRACTOR-PROVIDED EQUIPMENT OR SYSTEMS WITH ILLUSTRATION, EXPLODED VIEWS, ETC.

H. WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM BENEFICIAL OCCUPANCY. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.

I. PERMITS: SECURE AND PAY FOR ALL FEES, PERMITS, ETC. REQUIRED BY LOCAL AND STATE AGENCIES.

J. REFERENCE SYMBOLS: THE ELECTRICAL "LEGEND" ON THE DRAWINGS IS A STANDARDIZED VERSION, AND ALL SYMBOLS SHOWN MAY NOT BE USED. USE THE "LEGEND" AS A REFERENCE FOR THE SYMBOLS USED ON THE DRAWINGS.

26.05.05 - SELECTIVE DEMOLITION FOR ELECTRICAL

A. DEMOLITION DRAWINGS ARE BASED ON A NON-DESTRUCTIVE FIELD OBSERVATION AND EXISTING RECORD DRAWING. REPORT DISCREPANCIES TO ENGINEER BEFORE DISTURBING THE EXISTING INSTALLATION. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS.

B. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

C. REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.

D. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS AND OTHER ACCESSORIES. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.

26.05.26 - GROUNDING AND BONDING

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.

B. INSTALLATION:

- BOND TOGETHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, METAL RACEWAY SYSTEMS, AND GROUNDING CONDUCTOR IN RACEWAYS AND CABLES.

26.05.53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.

B. MATERIALS:

- TAPE LABELS: ADHESIVE TAPE LABELS, WITH 3/16 INCH BOLD BLACK LETTERS ON CLEAR BACKGROUND MADE USING DYMO RHINOPRO 5000 OR EQUAL LABEL PRINTER.
- WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.

C. INSTALLATION:

- JUNCTION BOXES: MARK ALL CIRCUIT NUMBERS OF WIRING ON ALL JUNCTION BOXES WITH SHEET STEEL COVERS. MARK WITH INDELIBLE BLACK MARKER. ON EXPOSED JUNCTION BOXES IN PUBLIC AREAS, MARK ON INSIDE OF COVER.
- WIRE IDENTIFICATION: PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN JUNCTION BOXES. MARKERS SHALL BE LOCATED WITHIN ONE INCH OF EACH CABLE END.

26.50.00 - LIGHTING FIXTURES

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

- FIXTURE SUBSTITUTIONS: SUBMIT POINT-BY-POINT LIGHTING CALCULATIONS ON 10'X10' GRID SHOWING LIGHTING LEVELS AND UNIFORMITY. CALCULATIONS SHALL HAVE A LIGHT LOSS FACTOR OF 0.72 APPLIED TO FIXTURE IES FILES.

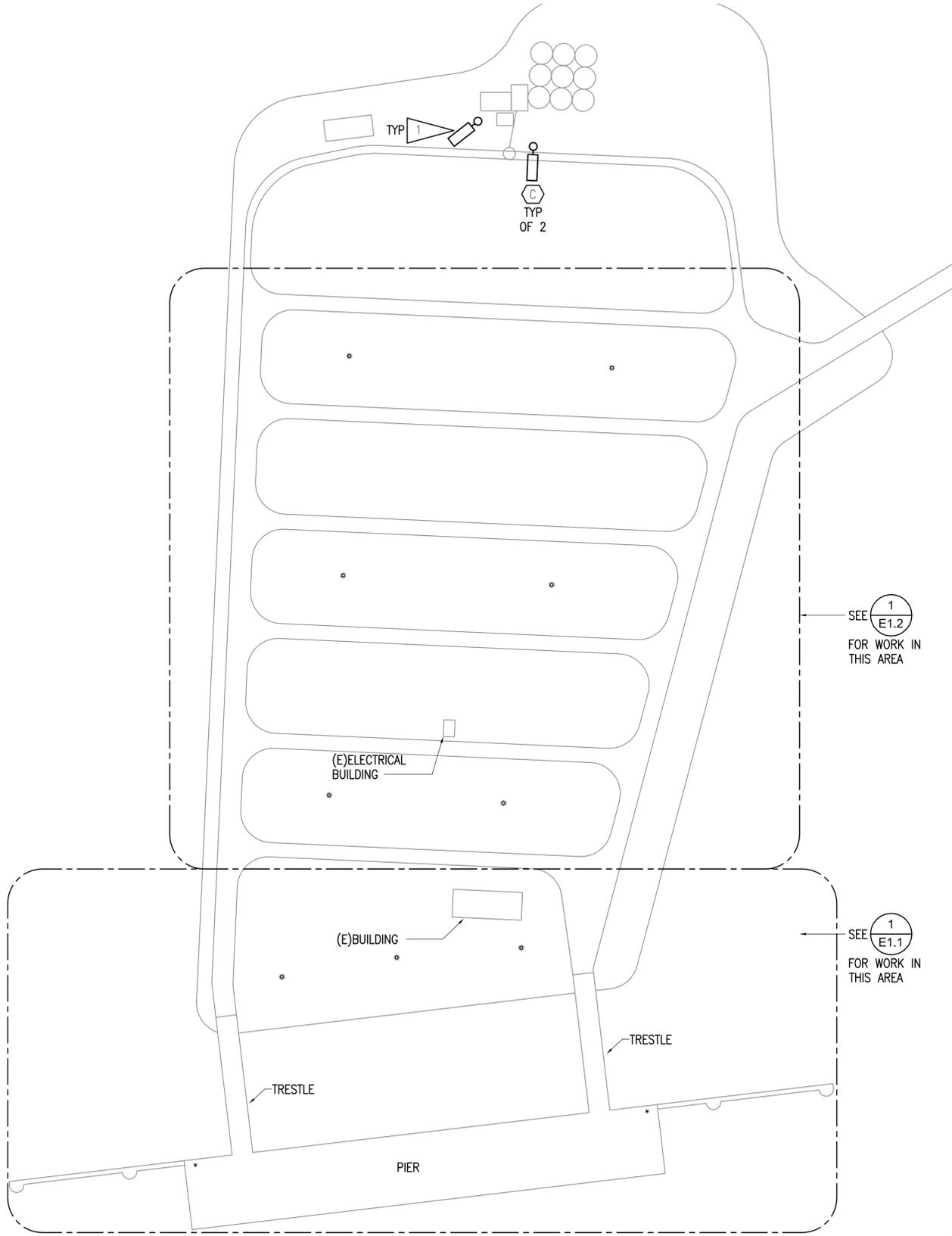
B. MATERIALS:

- LUMINAIRES: PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT OR APPROVED EQUAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE "FIXTURE SCHEDULE". PROVIDE LIGHTING EQUIPMENT COMPLETE, WIRED, ASSEMBLED, WITH PROPER FLANGES, MOUNTING SUPPORTS, HARDWARE, ETC.
- LED DRIVERS: PROVIDE UL LISTED POWER SUPPLY AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS. POWER SUPPLY SHALL BE INTEGRAL TO THE LUMINAIRE UNLESS OTHERWISE NOTED ON THE PLANS. POWER SUPPLY SHALL OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS AND SHALL BE LISTED FOR STARTING AND OPERATING THE LAMPS AT -20°F.
- LED LAMPS: UNLESS OTHERWISE SCHEDULED ON THE PLANS, PROVIDE NOMINAL 4000 K, WITH MINIMUM 75CRI AND A MINIMUM L70 LAMP LIFE OF 50,000 HOURS.

C. INSTALLATION:

- PROVIDE LUMINAIRE DISCONNECTING MEANS IN BALLAST/DRIVER CHANNEL OF EACH LIGHT FIXTURE.
- PROVIDE CORROSION RESISTANT MOUNTING BRACKETS AS REQUIRED FOR PROPER FIXTURE MOUNTING ONTO EXISTING HIGH MAST LOWER RINGS. ALL MOUNTING HARDWARE SHALL BE MARINE GRADE STAINLESS STEEL.

0"
1"
2"
3"



1 ELECTRICAL REFERENCE PLAN
1" = 100'-0"



GENERAL NOTES:

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL AFFECTED SYSTEMS PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. ALL EXISTING HIGH MAST FIXTURES TO BE DEMOLISHED ARE 1000W HPS TYPE FIXTURES.
- D. REFERENCE SHEET E3.1 FOR PHOTOS OF EXISTING CONDITIONS.

GENERAL NOTES:

- 1 DEMOLISH EXISTING ROAD WAY LIGHT AND REPLACE WITH NEW FIXTURE. EXISTING POLE, CONDUIT, AND WIRE SHALL REMAIN. CONNECT NEW FIXTURE TO EXISTING CIRCUIT. COORDINATE WITH OWNER FOR EXACT FIXTURES TO BE REPLACED.



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VALDEZ, ALASKA

REVISIONS:

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DRAWING TITLE:
ELECTRICAL REFERENCE
PLAN

SHEET:
E0.2

0"
1"
2"
3"

GENERAL NOTES:

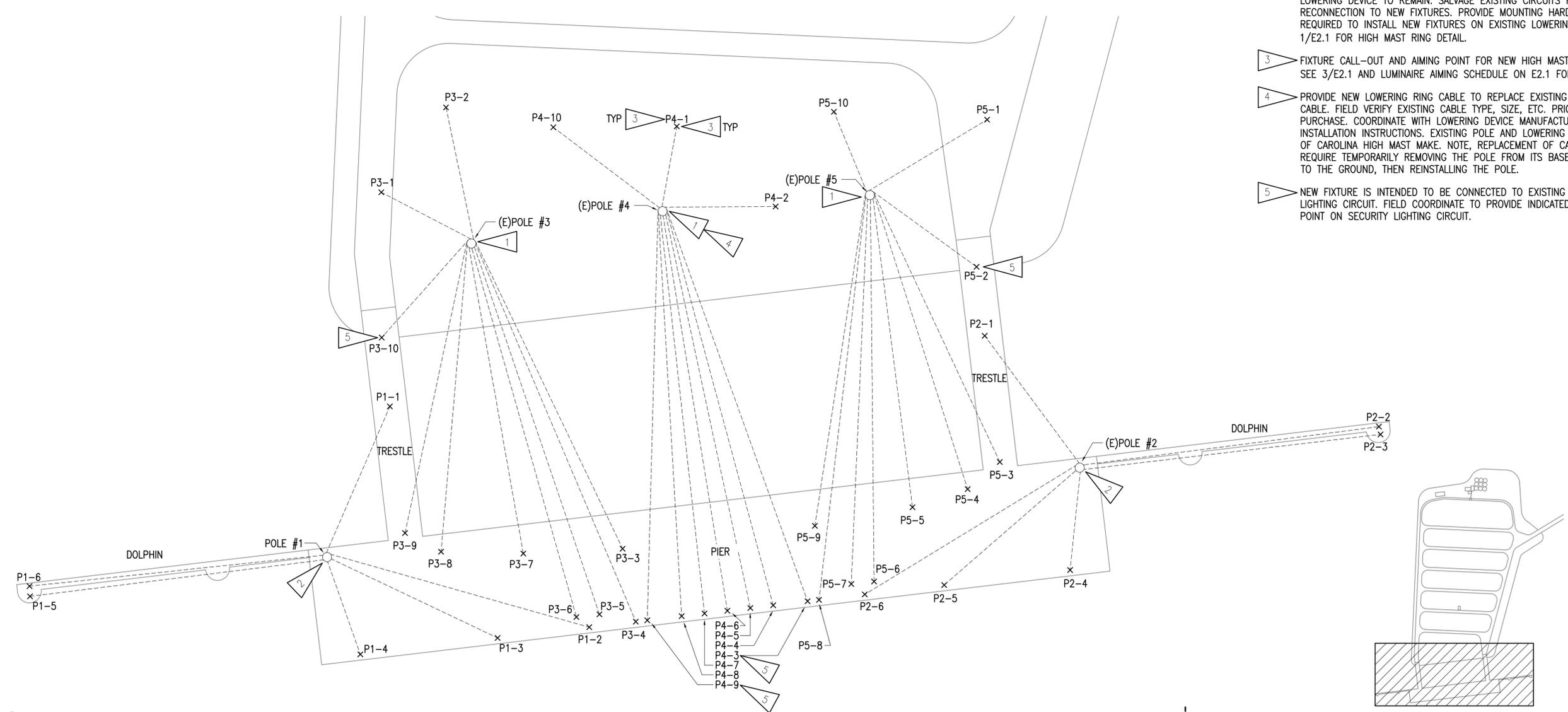
A. SEE E0.2 FOR GENERAL NOTES.



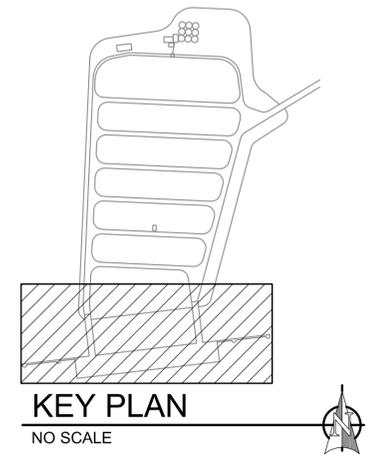
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SHEET NOTES:

- 1 DEMOLISH EXISTING (10) HIGH MAST FIXTURES. EXISTING 80' POLE AND LOWERING DEVICE TO REMAIN. SALVAGE EXISTING CIRCUITS FOR RECONNECTION TO NEW FIXTURES. PROVIDE MOUNTING HARDWARE AS REQUIRED TO INSTALL NEW FIXTURES ON EXISTING LOWERING RING. SEE 2/E2.1 FOR HIGH MAST RING DETAIL.
- 2 DEMOLISH EXISTING (6) HIGH MAST FIXTURES. EXISTING 50' POLE AND LOWERING DEVICE TO REMAIN. SALVAGE EXISTING CIRCUITS FOR RECONNECTION TO NEW FIXTURES. PROVIDE MOUNTING HARDWARE AS REQUIRED TO INSTALL NEW FIXTURES ON EXISTING LOWERING RING. SEE 1/E2.1 FOR HIGH MAST RING DETAIL.
- 3 FIXTURE CALL-OUT AND AIMING POINT FOR NEW HIGH MAST FIXTURES. SEE 3/E2.1 AND LUMINAIRE AIMING SCHEDULE ON E2.1 FOR DETAILS.
- 4 PROVIDE NEW LOWERING RING CABLE TO REPLACE EXISTING DAMAGED CABLE. FIELD VERIFY EXISTING CABLE TYPE, SIZE, ETC. PRIOR TO PURCHASE. COORDINATE WITH LOWERING DEVICE MANUFACTURER FOR INSTALLATION INSTRUCTIONS. EXISTING POLE AND LOWERING DEVICE ARE OF CAROLINA HIGH MAST MAKE. NOTE, REPLACEMENT OF CABLE WILL REQUIRE TEMPORARILY REMOVING THE POLE FROM ITS BASE, LOWERING TO THE GROUND, THEN REINSTALLING THE POLE.
- 5 NEW FIXTURE IS INTENDED TO BE CONNECTED TO EXISTING SECURITY LIGHTING CIRCUIT. FIELD COORDINATE TO PROVIDE INDICATED AIMING POINT ON SECURITY LIGHTING CIRCUIT.



1 LIGHTING PLAN - PIER
 1" = 50'-0"



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VALDEZ CONTAINER TERMINAL
VALDEZ, ALASKA

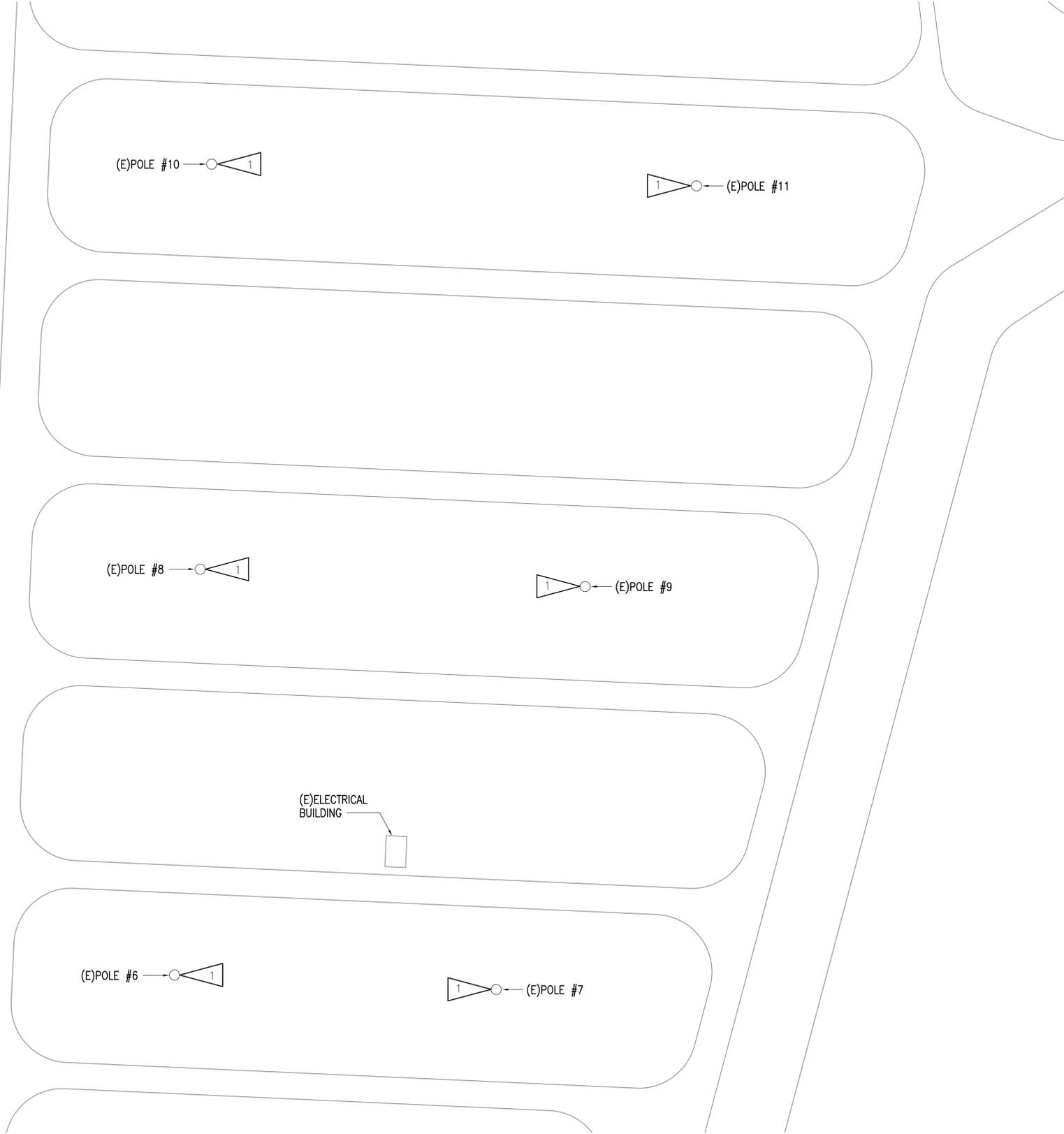
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DRAWING TITLE:
 LIGHTING PLAN - PIER

SHEET:
E1.1

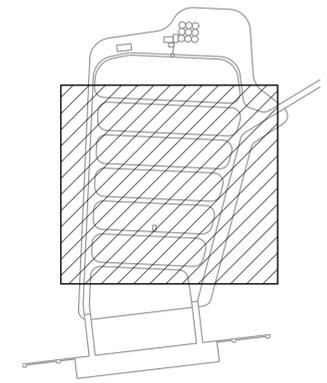
0"
1"
2"
3"



GENERAL NOTES:
 A. SEE E0.2 FOR GENERAL NOTES.

SHEET NOTES:
 1 DEMOLISH EXISTING (10) HIGH MAST FIXTURES. EXISTING 80' POLE AND LOWERING DEVICE TO REMAIN. SALVAGE EXISTING CIRCUITS FOR RECONNECTION TO NEW FIXTURES. PROVIDE MOUNTING HARDWARE AS REQUIRED TO INSTALL NEW FIXTURES ON EXISTING LOWERING RING. SEE 2/E2.1 FOR HIGH MAST RING DETAIL. SEE 3/E2.1 AND LUMINAIRE AIMING SCHEDULE FOR FOR NEW FIXTURES TO BE INSTALLED.

1 LIGHTING PLAN - CONTAINER AREA
 1" = 50'-0"



KEY PLAN
 NO SCALE



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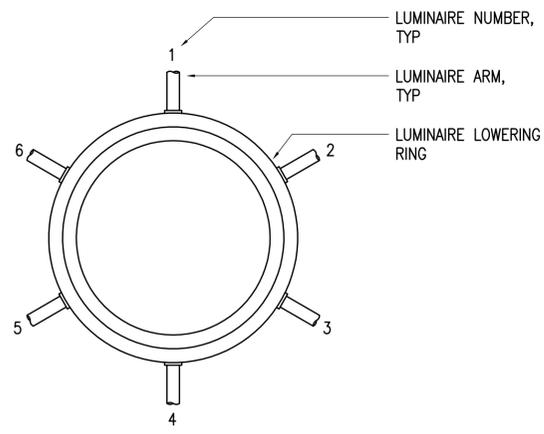
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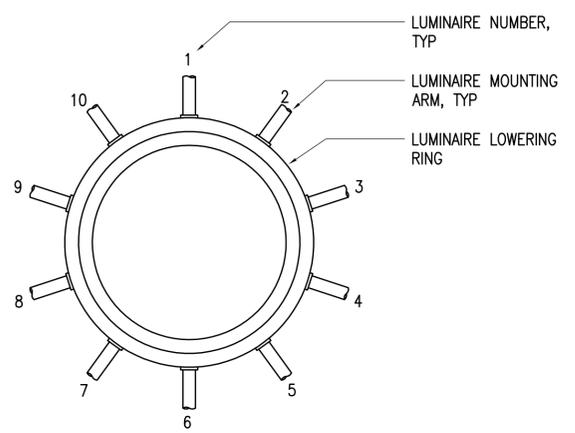
DRAWING TITLE:
 LIGHTING PLAN -
 CONTAINER AREA

SHEET:
E1.2

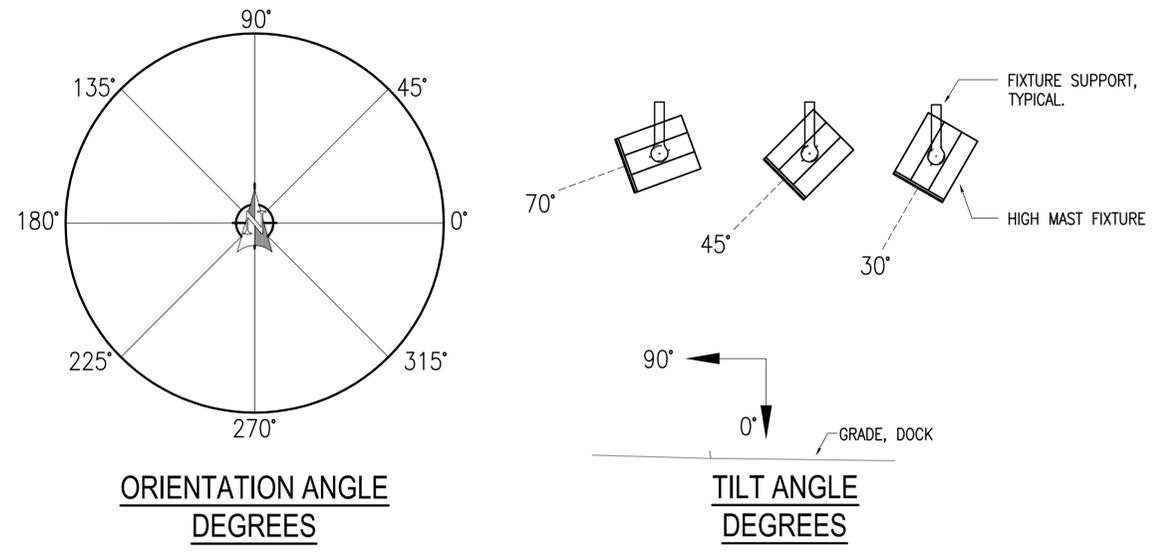
0"
1"
2"
3"



1 HIGHMAST MOUNTING CONFIGURATION - POLE #1 & 2
NO SCALE



2 HIGHMAST MOUNTING CONFIGURATION - POLE #3-11
NO SCALE



3 HIGHMAST FIXTURE AIMING DETAIL
NO SCALE

HIGH MAST LUMINAIRE AIMING SCHEDULE

POLE	FIXTURE NUMBER	ORIENTATION ANGLE	TILT ANGLE	FIXTURE TYPE
P1	1	67	72	A60
P1	2	344	80	A15
P1	3	335	74	A15
P1	4	289	62	A45
P1	5	187	80	A15
P1	6	186	80	A15
P2	1	126	72	A60
P2	2	7	80	A15
P2	3	7	80	A15
P2	4	264	62	A45
P2	5	221	74	A15
P2	6	211	78	A15
P3	1	153	46	A45
P3	2	102	54	A45
P3	3	296	75	A15
P3	4	293	77	A15
P3	5	289	77	A15
P3	6	286	76	A15
P3	7	280	73	A15
P3	8	265	73	A15
P3	9	258	73	A15
P3	10	228	55	A45
P4	1	79	40	A60
P4	2	0	48	A45
P4	3	290	77	A15
P4	4	285	77	A15
P4	5	282	77	A15
P4	6	279	77	A15
P4	7	276	77	A15
P4	8	273	77	A15
P4	9	269	77	A15
P4	10	143	54	A60
P5	1	31	54	A45
P5	2	324	54	A45
P5	3	295	73	A15
P5	4	288	73	A15
P5	5	277	73	A15
P5	6	271	76	A15
P5	7	268	76	A15
P5	8	263	77	A15
P5	9	261	75	A15
P5	10	112	41	A60
P6	1	N/A	N/A	B
P6	2	N/A	N/A	B
P6	3	N/A	N/A	B
P6	4	N/A	N/A	B
P6	5	N/A	N/A	B
P6	6	N/A	N/A	B
P6	7	N/A	N/A	B
P6	8	N/A	N/A	B
P6	9	N/A	N/A	B
P6	10	N/A	N/A	B
P7	1	N/A	N/A	B
P7	2	N/A	N/A	B
P7	3	N/A	N/A	B
P7	4	N/A	N/A	B
P7	5	N/A	N/A	B
P7	6	N/A	N/A	B
P7	7	N/A	N/A	B
P7	8	N/A	N/A	B
P7	9	N/A	N/A	B
P7	10	N/A	N/A	B
P8	1	N/A	N/A	B
P8	2	N/A	N/A	B
P8	3	N/A	N/A	B
P8	4	N/A	N/A	B
P8	5	N/A	N/A	B
P8	6	N/A	N/A	B
P8	7	N/A	N/A	B
P8	8	N/A	N/A	B
P8	9	N/A	N/A	B
P8	10	N/A	N/A	B
P9	1	N/A	N/A	B
P9	2	N/A	N/A	B
P9	3	N/A	N/A	B
P9	4	N/A	N/A	B
P9	5	N/A	N/A	B
P9	6	N/A	N/A	B
P9	7	N/A	N/A	B
P9	8	N/A	N/A	B
P9	9	N/A	N/A	B
P9	10	N/A	N/A	B
P10	1	N/A	N/A	B
P10	2	N/A	N/A	B
P10	3	N/A	N/A	B
P10	4	N/A	N/A	B
P10	5	N/A	N/A	B
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P10	7	N/A	N/A	B
P10	8	N/A	N/A	B
P10	9	N/A	N/A	B
P10	10	N/A	N/A	B
P11	1	N/A	N/A	B
P11	2	N/A	N/A	B
P11	3	N/A	N/A	B
P11	4	N/A	N/A	B
P11	5	N/A	N/A	B
P11	6	N/A	N/A	B
P11	7	N/A	N/A	B
P11	8	N/A	N/A	B
P11	9	N/A	N/A	B
P11	10	N/A	N/A	B



RSA
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Phone (907) 276-0521
Corporate No.: AECC542

CONTAINER TERMINAL - LIGHTING UPGRADE
VALDEZ CONTAINER TERMINAL
VALDEZ, ALASKA

REVISIONS:

DRAWN BY: FS
CHECKED BY: DB,XPT
DATE: 4/10/18
JOB NUMBER: L7242
DWG FILE: L7242 - ESeries

DRAWING TITLE:
HIGH MAST LIGHTING
CIRCUIT DEMOLITION
AND REMODEL PLAN

SHEET:
E2.1

0"
1"
2"
3"



1 HIGHMAST LIGHTING - POLE #1 & 2
NO SCALE



3 HIGHMAST LIGHTING - POLE #3, 4, & 5
NO SCALE



5 HIGHMAST LIGHTING - POLE #6-11
NO SCALE



2 HIGHMAST LIGHTING - POLE #1 & 2
NO SCALE



4 HIGHMAST LIGHTING - POLE #3, 4, & 5
NO SCALE



6 HIGHMAST LIGHTING - POLE #6-11
NO SCALE



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DRAWING TITLE:
REFERENCE PHOTOS

SHEET:
E3.1