

SITE MAP

CITY OF FAIRBANKS FACILITIES

FUEL TANKS

DISPENSER ISLANDS

DAVIS ROAD

Architects · Engineers · Surveyors

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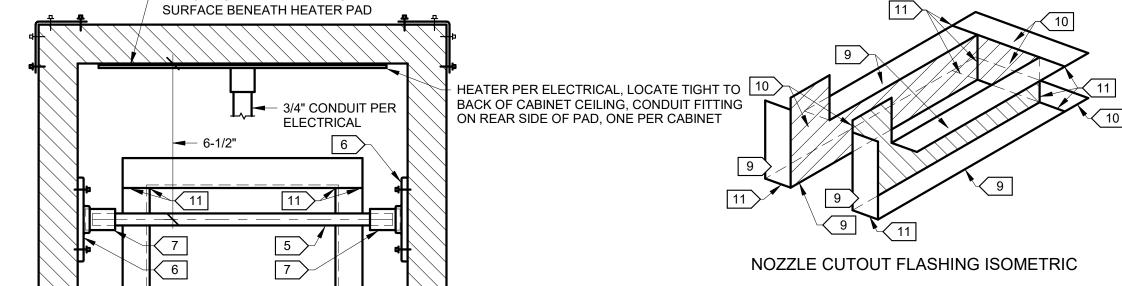
THE LING ISLAND PLAN

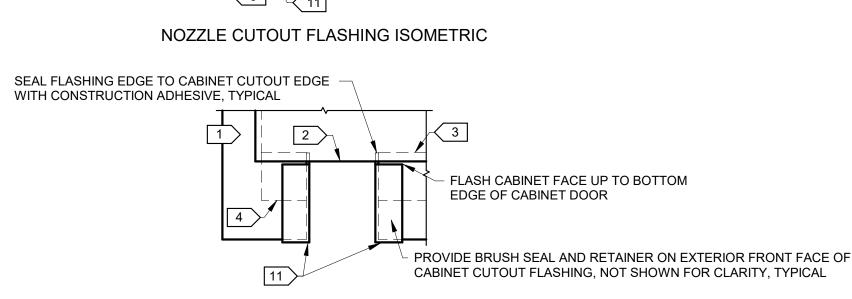
1/4" = 1'-0"

REMOVE CABINET PAINT FROM METAL SURFACE BENEATH HEATER PAD

10

9





FRONT FACE SECTION

#6 1/2" SELF DRILLING POINT ZINC PLATED
HEX HEAD SHEET METAL SCREW, TYPICAL

FASTEN FLASHING AND BRUSH SEAL RETAINER TO CABINET AT EVERY FOUR
INCHES, REDUCE SPACING FOR FACES SHORTER THAN FOUR INCHES, TYPICAL

PROVIDE BRUSH SEAL AND RETAINER ON INTERIOR AND EXTERIOR
AROUND FULL PERIMETER OF CUTOUT ON TOP OF FLASHING, TYPICAL

SEAL PERIMETER OF FLASHING FLANGE WITH CONSTRUCTION ADHESIVE, TYPICAL SEAL SEAMS BETWEEN CABINETS WITH CONSTRUCTION ADHESIVE FASTEN TWO HAZARDOUS MATERIAL CABINETS TOGETHER WITH 4X3 16 GAUGE GALVANIZED STEEL OR 0.06" THICK ALUMINUM SHEET METAL ANGLE WITH EIGHT SHEET METAL SCREWS EACH, TYPICAL 8 APPLY CONSTRUCTION ADHESIVE BETWEEN CABINET AND ANGLE AROUND PERIMETER ROUGH OPENING FOR ELECTRICAL - CONDUIT, SEE ELECTRICAL, TYPICAL FLASHING, 28 GAUGE GALVANIZED STEEL OR 0.01" THICK ALUMINUM SHEET METAL, TYPICAL RUN CONTINUOUS BEAD OF CONSTRUCTION ADHESIVE UNDER PERIMETER FLOOR FLANGE AND PIPE NIPPLE OF FLASHING, GORILLA MAX STRENGTH CONSTRUCTION ADHESIVE CLEAR NOT SHOWN FOR CLARITY, TYPICAL OR EQUAL, TYPICAL ROUGH OPENING COVERED BY FLASHING, TYPICAL ■ 9" MINIMUM SMOOTH AND DEBURR ROUGH OPENING, TYPICAL

- CABINET PIANO HINGE

BRUSH SEAL AND RETAINER

NOT SHOWN FOR CLARITY

3" ROUGH OPENING IN CABINET, TYPICAL

CENTER ELEVATION

2

PLAN VIEW

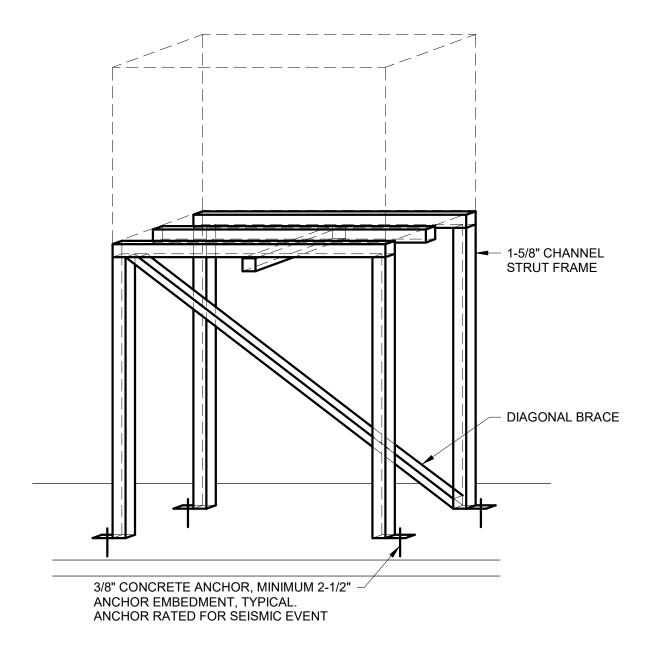
FUEL HOSE, TYPICAL

DETAIL SPECIFIC NOTES

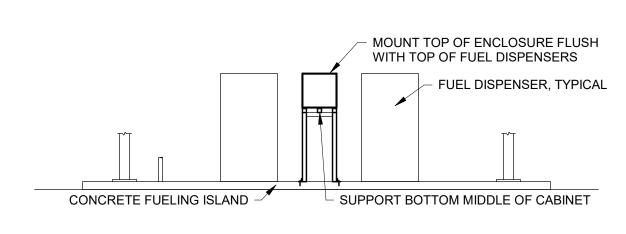
- 1 FLAMMABLE STORAGE CABINET, CONSTRUCTED OF 18 GAUGE STEEL WITH 1-1/4" DOUBLE WALL AIR SPACE.
- 2 CABINET DOOR.
- 3 CABINET DOOR SILL.
- 4 BOTTOM OF CABINET SUMP.
- 5 1/2" DIAMETER UNTHREADED GALVANIZED STEEL ROD FOR NOZZLE HOOKS.
- 6 1/2" STEEL FLOOR FLANGE PIPE FITTING, FASTEN TO CABINET WITH SHEET METAL SCREWS.
- 7 1/2" STEEL PIPE NIPPLE, NIPPLE SHALL BE MINIMUM 1-1/4" IN LENGTH.
- 8 8X8 ROUGH OPENING IN REAR OF EACH CABINET.
- 9 INSTALL BRUSH SEAL AND RETAINER TO THIS SURFACE TO COVER FLASHED OPENING.
- 10 DO NOT INSTALL BRUSH SEAL AND RETAINER TO THIS SURFACE.
- 11 SEAM IN FLASHING, SEAL SEAM WITH CONSTRUCTION ADHESIVE AFTER FASTENING IN PLACE.
- 12 LOCATE THERMOSTAT OPPOSITE PAD HEATER ON CABINET CEILING, FACTORY SET TO 50°F, PER ELECTRICAL.

DETAIL GENERAL NOTES

1. INSTALL NOZZLE HOOKS ON ALL NOZZLES TO HANG FROM ROD WITHIN CABINET.



3 FUEL NOZZLE ENCLOSURE SUPPORT DETAIL NO SCALE



4 FUELING ISLAND TYPICAL ELEVATION NO SCALE

CITY OF FAIRBANKS TANK FARM FUEL PUMP ENCLOSURE

ISSUE DATE 26 OCT 2022
COMM. NUMBER 202201
DESIGNED BY RJR
DRAWN BY ERM
SCALE 0" 1"

MECHANICAL PLANS

M001

M001 NO SCALE

CUTOUT FOR NOZZLE AND FUEL HOSE, TYPICAL

RECESSED PADDLE HANDLE -

2 FUEL NOZZLE ENCLOSURE CONSTRUCTION DETAIL

GENERAL SHEET NOTES

- 1. IN GENERAL, THE CONDUIT ROUTINGS SHOWN ON THIS SHEET ARE CONCEPTUAL ONLY. THE CONTRACTOR MAY MODIFY OR REPOUTE CONDUITS AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS.
- 2. ALL ELECTRICAL INSTALLATIONS SHALL BE COMPLIANT WITH NFPA 70, NATIONAL ELECTRICAL CODE (NEC), 2020.
- 3. THE INSIDE OF THE NEW NOZZLE ENCLOSURE AND DIRECTLY BELOW IS A CLASS 1, DIVISION 2 (C1D2) HAZARDOUS LOCATION. ALL ELECTRICAL DEVICES, CONDUITS, WIRING, AND OTHER ITEMS WITHIN THE HAZARDOUS LOCATION SHALL BE LISTED FOR USE WITHIN A C1D2 SPACE. SEE NEC ARTICLE 501 FOR ADDITIONAL REQUIREMENTS.
- 4. #10 AWG CONDUCTORS HAVE ALREADY BEEN PULLED THROUGH THE EXISTING BELOW GRADE CONDUIT BETWEEN THE BUILDING ELECTRICAL GUTTER AND THE FUELING ISLANDS. THE EXISTING CONDUCTORS ARE COILED AT THE CONDUIT STUB-UPS AT THE FUELING ISLANDS. PROTECT EXISTING CONDUCTORS DURING PROJECT WORK.
- 5. EXISTING PANELBOARD "EMF" IS A 100-AMP, MAIN LUGS ONLY, SQUARE D, 'NQ' PANELBOARD. NEW CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH THE EXISTING PANELBOARD.

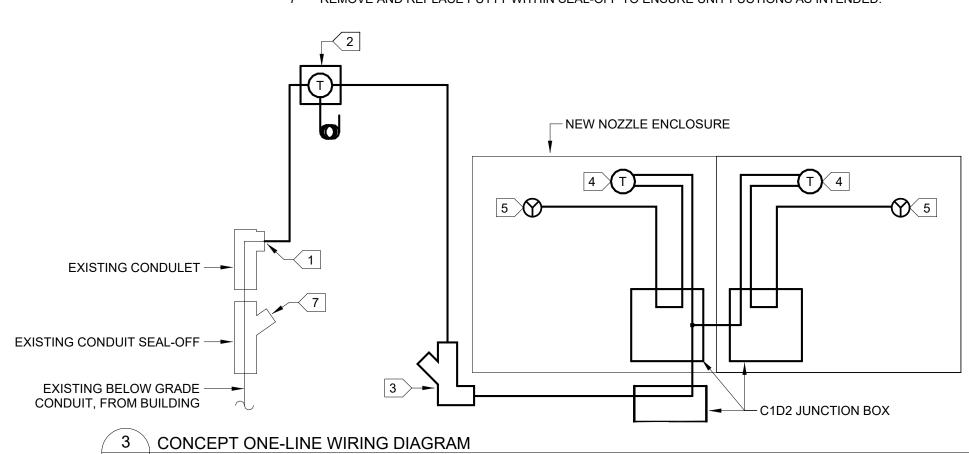
#> SPECIFIC SHEET NOTES

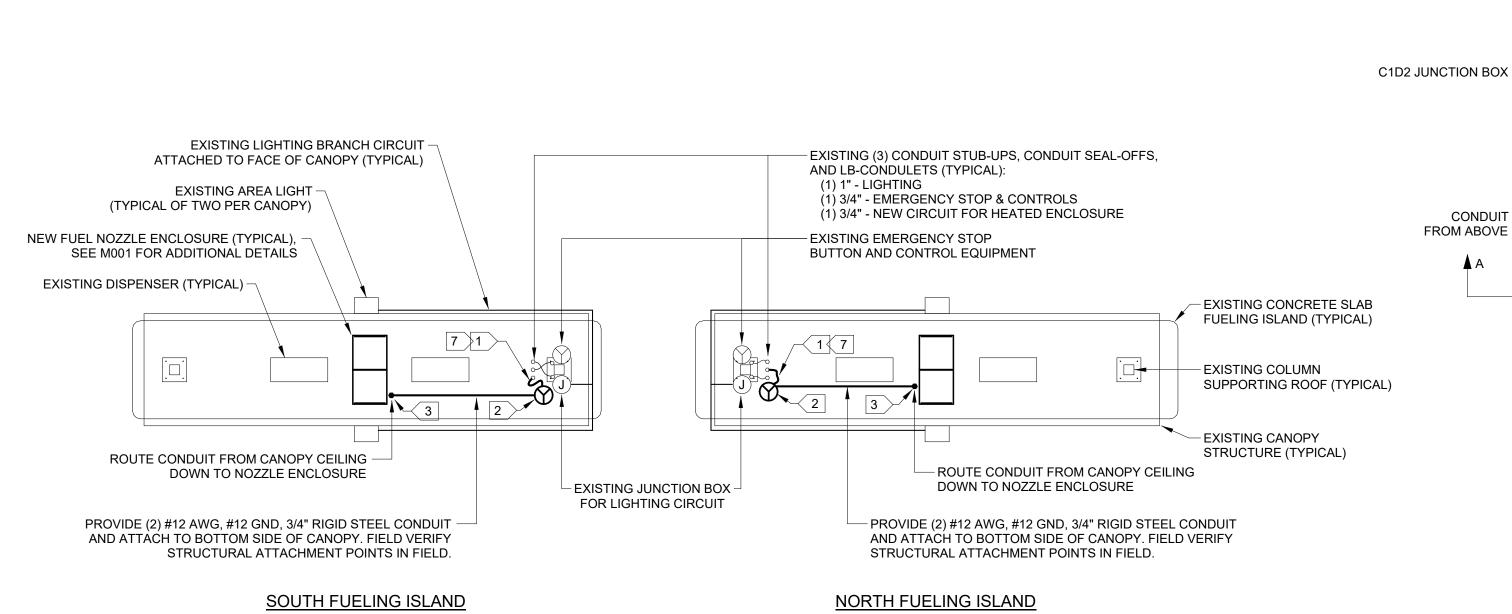
- 1 EXTEND CIRCUIT CONDUIT AND CONDUCTORS FROM EXISTING CONDUIT SEAL-OFF & CONDULET UP TO NEW SYSTEM COMPONENTS.
- PROVIDE A NEW AMBIENT TEMPERATURE CONTROLLER AND SENSOR SUITABLE FOR OUTDOOR USE. PROVIDE ONE DEVICE PER FUELING ISLAND. TEMPERATURE CONTROLLER SHALL TURN-ON BELOW 0°F AND TURN-OFF ABOVE 0°F. LOCATE DEVICE ON STRUCTURAL COLUMN OR ON UNDERSIDE OF CANOPY. MOUNT DEVICE TO COLUMN. INSTALL DEVICE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASIS OF DESIGN IS 'BRISKHEAT' MODEL 'TB250N-150'.
- 3 PROVIDE A CONDUIT SEAL-OFF BEFORE CONDUIT ENTERS NEW NOZZLE ENCLOSURE.
- PROVIDE CLASS 1, DIVISION 2, AUTOMATIC ON/OFF THERMOSTAT CONTROL DEVICE MOUNTED WITHIN NEW NOZZLE ENCLOSURE. PROVIDE 1 FOR EACH COMPARTMENT OF THE NEW NOZZLE ENCLOSURES. DEVICE SHALL TURN-ON AT 35°F AND TURN-OFF AT 50°F. DEVICE SHALL BE MOUNTED TO SURFACE IN APPROXIMATE LOCATION SHOWN. INSTALL DEVICE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASIS OF DESIGN IS 'BRISKHEAT' MODEL 'TD101X-050'.
- PROVIDE CLASS 1, DIVISION 2, SILICONE RUBBER HEATING BLANKET IN EACH COMPARTMENT OF THE NEW NOZZLE ENCLOSURE. HEATING BLANKET SHALL PRODUCE 180W OF HEAT AND BE 6" BY 12". LOCATE HEATING BLANKET ABOVE CENTER ROD SUPPORTING NOZZLES. INSTALL HEATING PAD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASIS OF DESIGN IS 'BRISKHEAT' MODEL 'SRX-06-12-180-1-P-T4A'.
- 6 EXTEND CIRCUIT CONDUIT AND CONDUCTORS FROM EXISTING ELECTRICAL GUTTER UP TO PANELBOARD "EMF" ON THE MEZZANINE PLATFORM. WIRE BOTH CONNECTIONS TO PANELBOARD "EMF", CIRCUIT "10". PROVIDE A NEW 15/1 CIRCUIT BREAKER WITH INTEGRAL 30-mA GROUND FAULT PROTECTION.

CONDUIT FROM ABOVE

REMOVE CABINET PAINT FROM METAL

7 REMOVE AND REPLACE PUTTY WITHIN SEAL-OFF TO ENSURE UNIT FUCTIONS AS INTENDED.





ASSUMED LOCATION OF -

AND FUELING ISLANDS

EXISTING BURIED CONDUITS

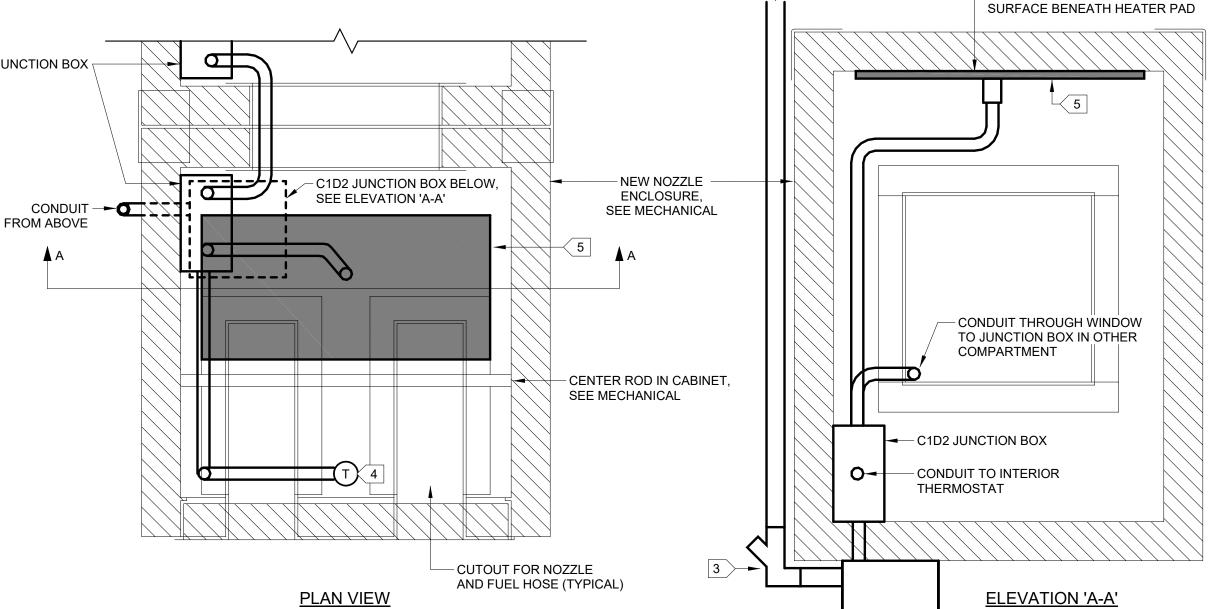
BETWEEN ELECTRICAL GUTTER

EXISTING NORTH FUELING ISLAND -

EXISTING SOUTH FUELING ISLAND

- APPROXIMATE LOCATION OF EXISTING CONDUIT STUB-UPS

AT FUELING ISLANDS



E001 NO SCALE

4 \ FUEL NOZZLE ENCLOSURE - ELECTRICAL CONCEPT DETAIL

PLANS

ELECTRICAL

SCALE

E001

E001 NO SCALE

10/26/2022 10:00:28 AM

APPROXIMATE LOCATION OF EXISTING ELECTRICAL GUTTER ON EXTERIOR OF BUILDING

APPROXIMATE LOCATION OF EXISTING PANELBOARD "EMF"

APPROXIMATE LOCATION OF EXISTING PANELBOARD "EMD"

ON MEZZANINE

ON MEZZANINE

SITE PLAN

2 FUELING ISLAND - ELECTRICAL PLAN

E001 NO SCALE

E001 NO SCALE

Architects • Engineers • Surveyors

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Leizabeth T.B. Johnston

26-Oct-2022

No. EE12945

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CITY OF FAIRBANKS TANK FARM FUEL PUMP ENCLOSURE

+	
ISSUE DATE	26 OCT 2
COMM. NUMBER	202
DESIGNED BY	N
DRAWN BY	M