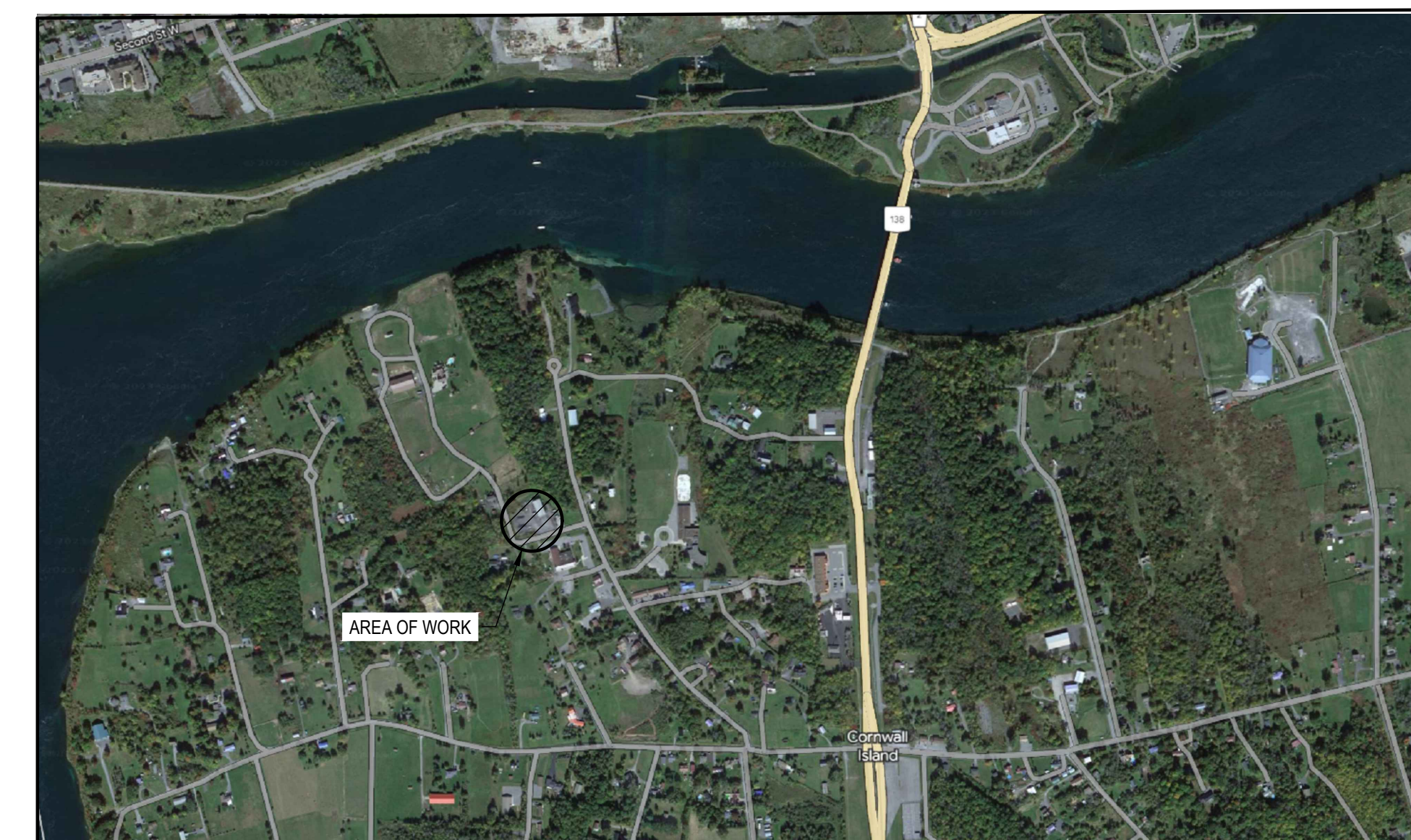




MOHAWK COUNCIL OF AKWESASNE SALT STORAGE FACILITY

CORNWALL ISLAND, ONTARIO



KEY PLAN
N.T.S.

DRAWING LIST

CIVIL

- C1.1 REMOVALS PLAN
- C1.2 SITE PLAN & SITE GRADING PLAN
- C2.1 DETAILS AND O.P.S.D.'S

STRUCTURAL

- S0.1 GENERAL NOTES AND TYPICAL DETAILS
- S1.1 FOUNDATION PLAN AND BUILDING CODE DATA MATRIX
- S2.1 ELEVATIONS AND BUILDING SECTION
- S3.1 FOUNDATION SECTIONS

ELECTRICAL

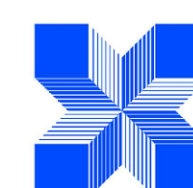
- E0.1 GENERAL NOTES AND EQUIPMENT SCHEDULES
- E1.1 ELECTRICAL SITE PLAN
- E2.1 ELECTRICAL LAYOUT & SINGLE LINE DIAGRAM
- E3.1 ELECTRICAL DETAILS

MECHANICAL

- M0.1 MECHANICAL DRAWING LIST, LEGENDS, SCHEDULES & SPECIFICATIONS
- M1.1 MECHANICAL PLANS & ELEVATIONS
- M1.2 MECHANICAL PLANS EXISTING GARAGE



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M:\Standards - CAD\Draw Templates\2018 - 2019\2018-2019.dwg (1/1/2018)

NOTES:

- CONTRACTOR TO VERIFY LOCATION OF ALL BURIED SERVICES PRIOR TO START OF CONSTRUCTION.
- TOPOGRAPHIC INFORMATION PROVIDED BY EVB ENGINEERING AND ELEVATIONS SHOWN ON THIS PLAN ARE GEODETIC (CGVD 2013) AND ARE DERIVED FROM CAN-NET SYSTEM NETWORK USING THE CGG2013 GEOID MODEL.
- ALL DISTURBED AREAS TO BE REINSTATED WITH 150mm TOPSOIL AND SEED UNLESS OTHERWISE NOTED.
- ENGINEER TO PROVIDE NEW BENCHMARK PRIOR TO RELOCATION OF UTILITY POLE.

TEMPORARY BENCH MARKS

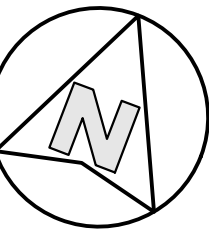
T.B.M. No.	ELEV. (m)	T.B.M. DESCRIPTION
T.B.M.#1	71.79	SPIKE IN FACE OF UTILITY POLE

LEGEND:

	NEW PROPERTY LINE
	EXISTING PROPERTY LINE
	EXISTING GRAVEL ROAD TO BE REMOVED
	EXISTING GRAVEL ROAD
	EXISTING DITCH
	EXISTING SANITARY MANHOLE
	EXISTING UTILITY POLE TO BE RELOCATED BY OTHERS
	EXISTING BELL BOX TO BE RELOCATED BY OTHERS
	EXISTING OVERHEAD LINE TO BE REMOVED
	EXISTING OVERHEAD LINE
	EXISTING UNDERGROUND WIRE TO BE REMOVED
	EXISTING UNDERGROUND WIRE
	EXISTING GRAVEL ROAD TO BE REMOVED
	EXISTING CONCRETE PAD TO BE REMOVED
	EXISTING BUILDING OUTLINE
	CLEARING AND GRUBBING AS REQ'D TO SUIT NEW CONSTRUCTION

2026/06/30	1	ISSUED FOR TENDER
DATE	No.	REVISION

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CLIENT:



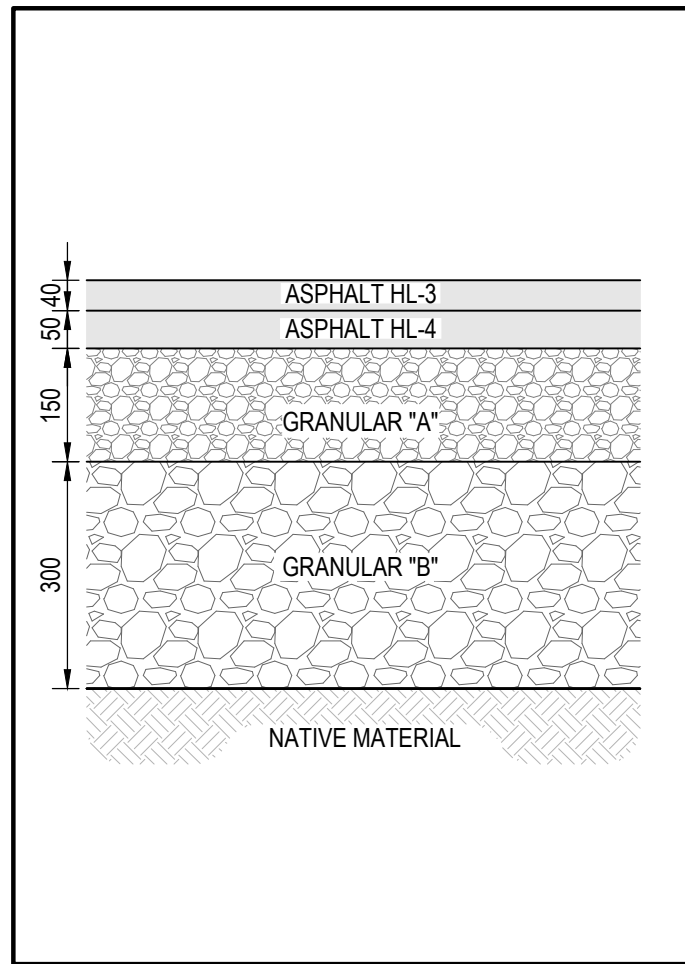
PROJECT:

CORNWALL ISLAND
SALT STORAGE FACILITY

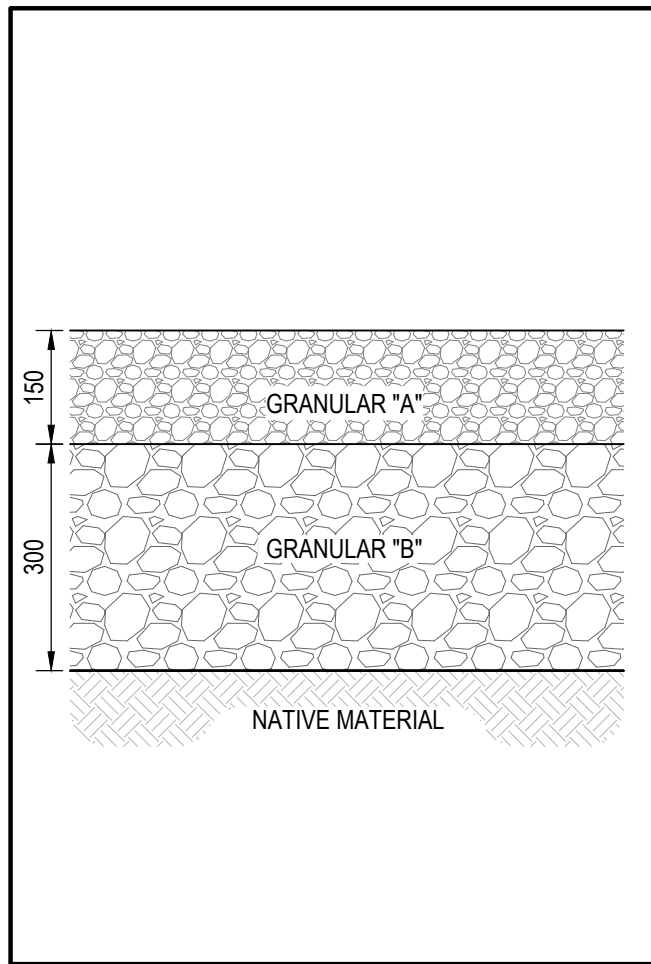
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REMOVALS PLAN

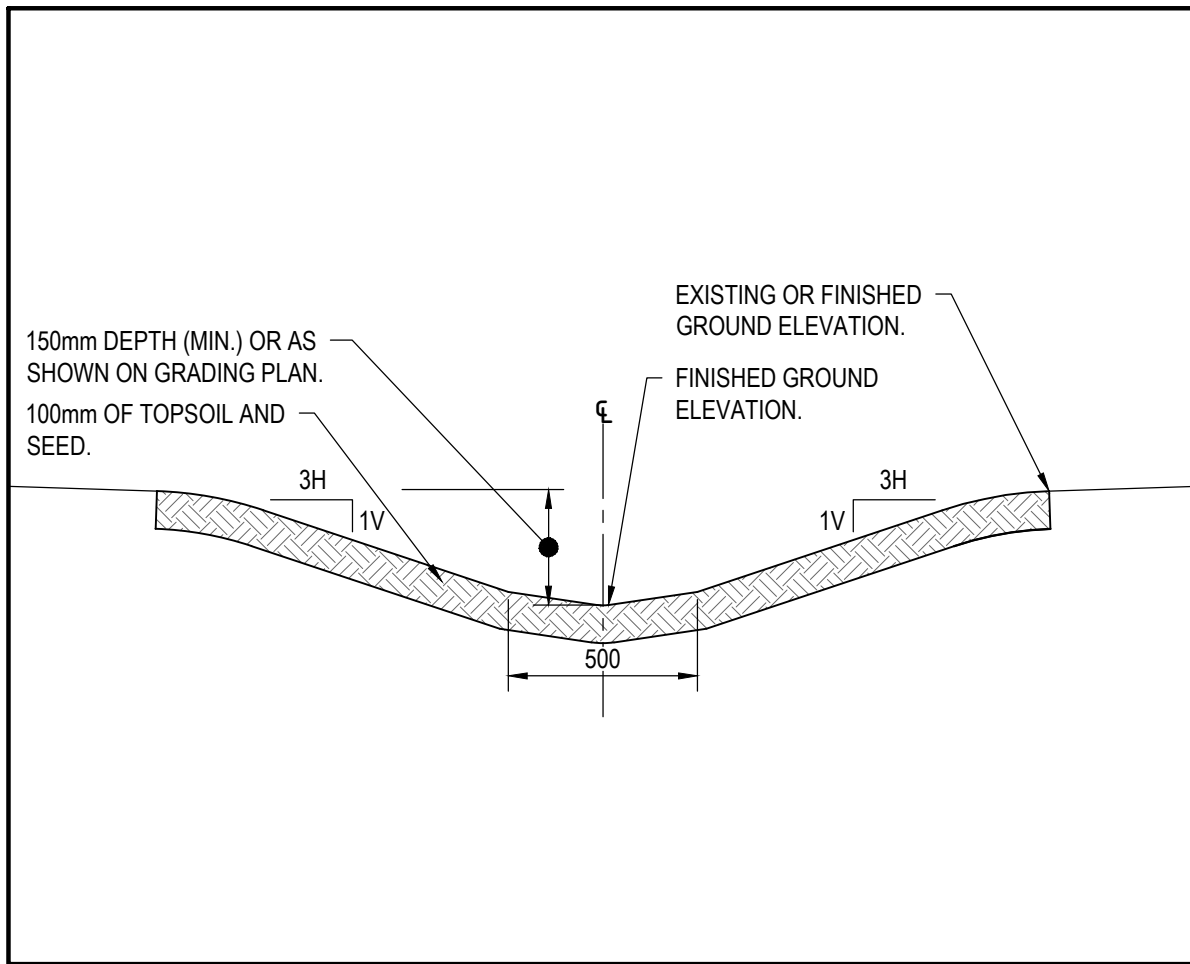
SCALE: 1:200	JOB NO: 22226
DESIGNED BY: A.V.	DATE: 2026/06/05
DRAWN BY: K.B.W./M.K.	DRAWING NO.
CHECKED BY:	
I.M.	C1.1



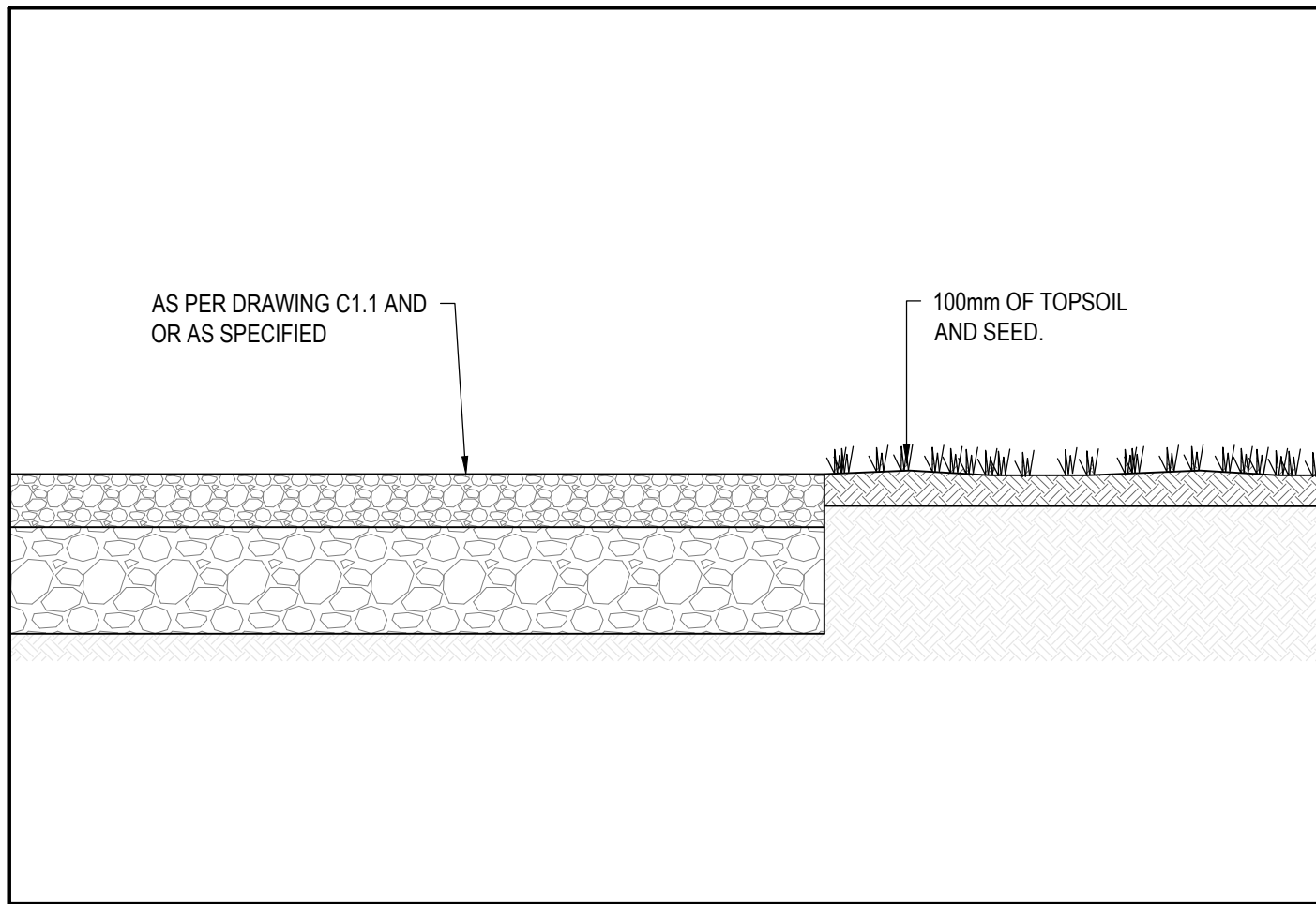
1 ASPHALT DETAIL
SCALE: N.T.S.



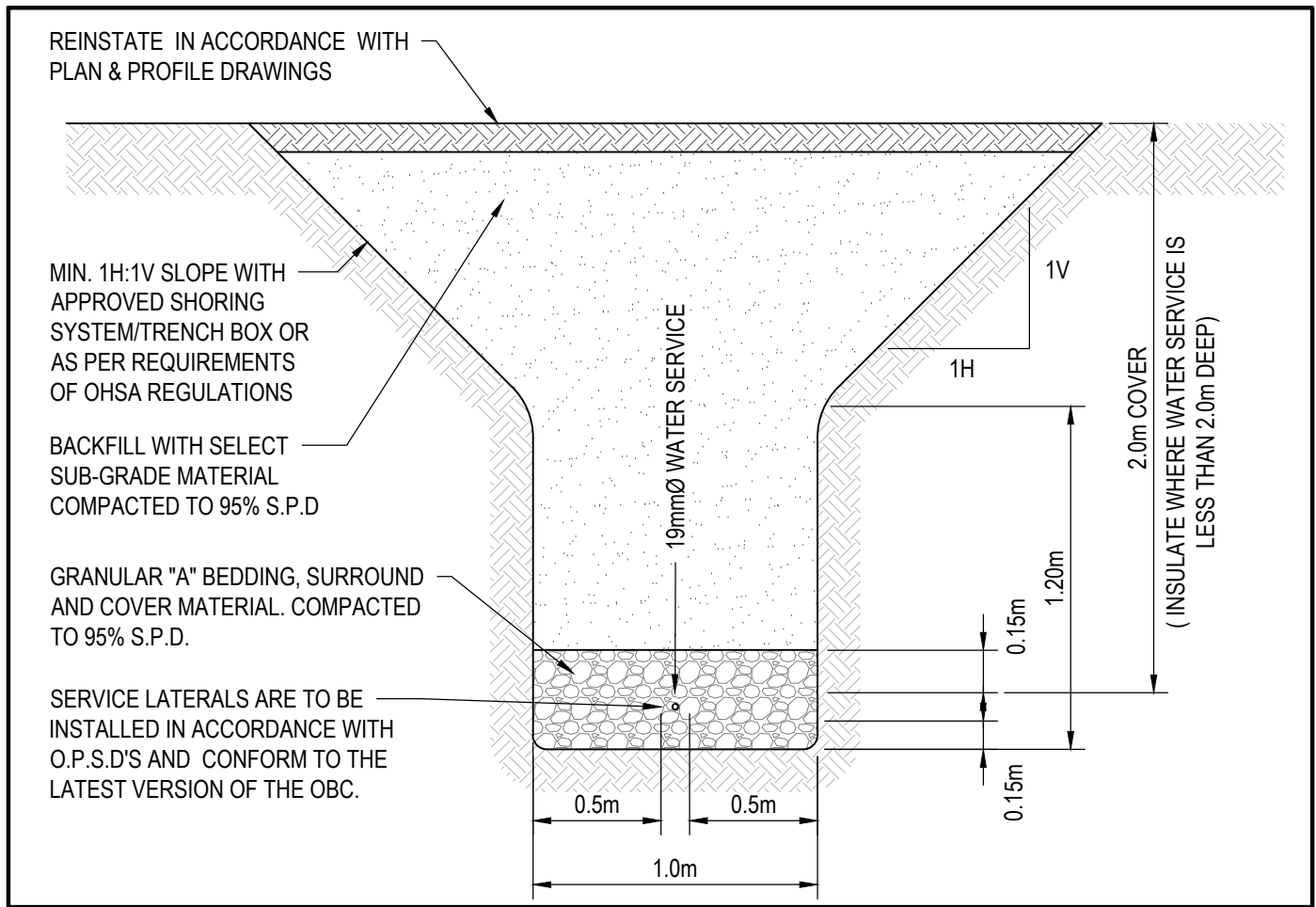
2 GRANULAR DETAIL
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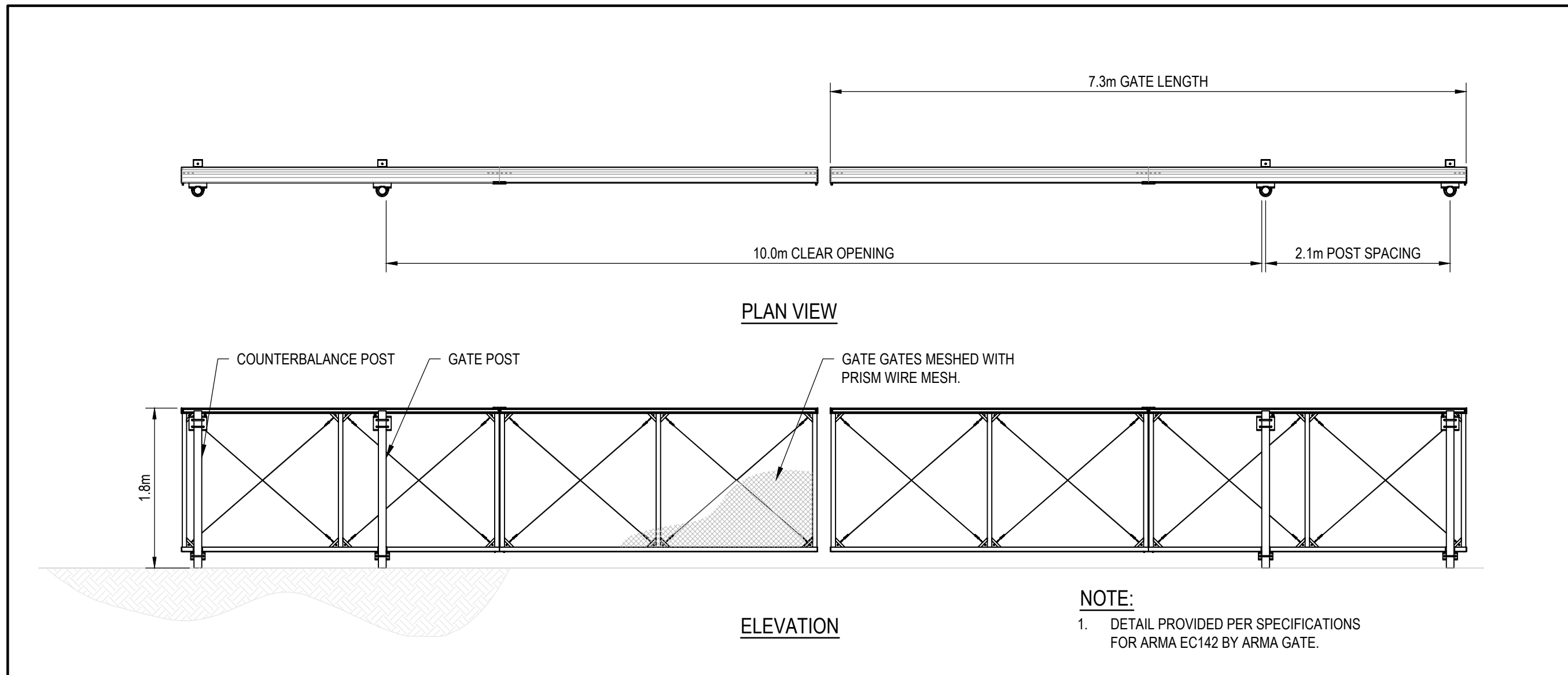
3 TYPICAL DITCH DETAIL
SCALE: N.T.S.



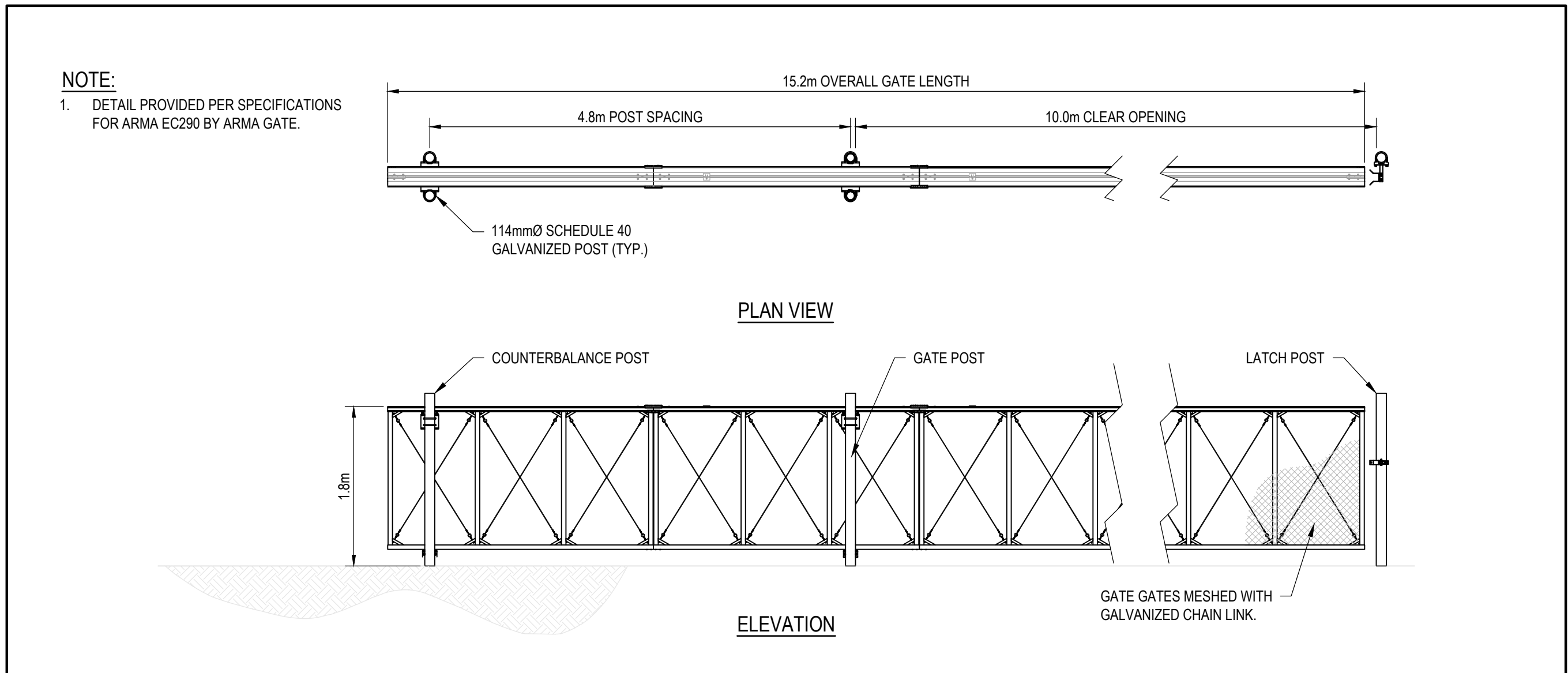
4 TYPICAL ASPHALT EDGE DETAIL (WITHOUT CURB)
SCALE: N.T.S.



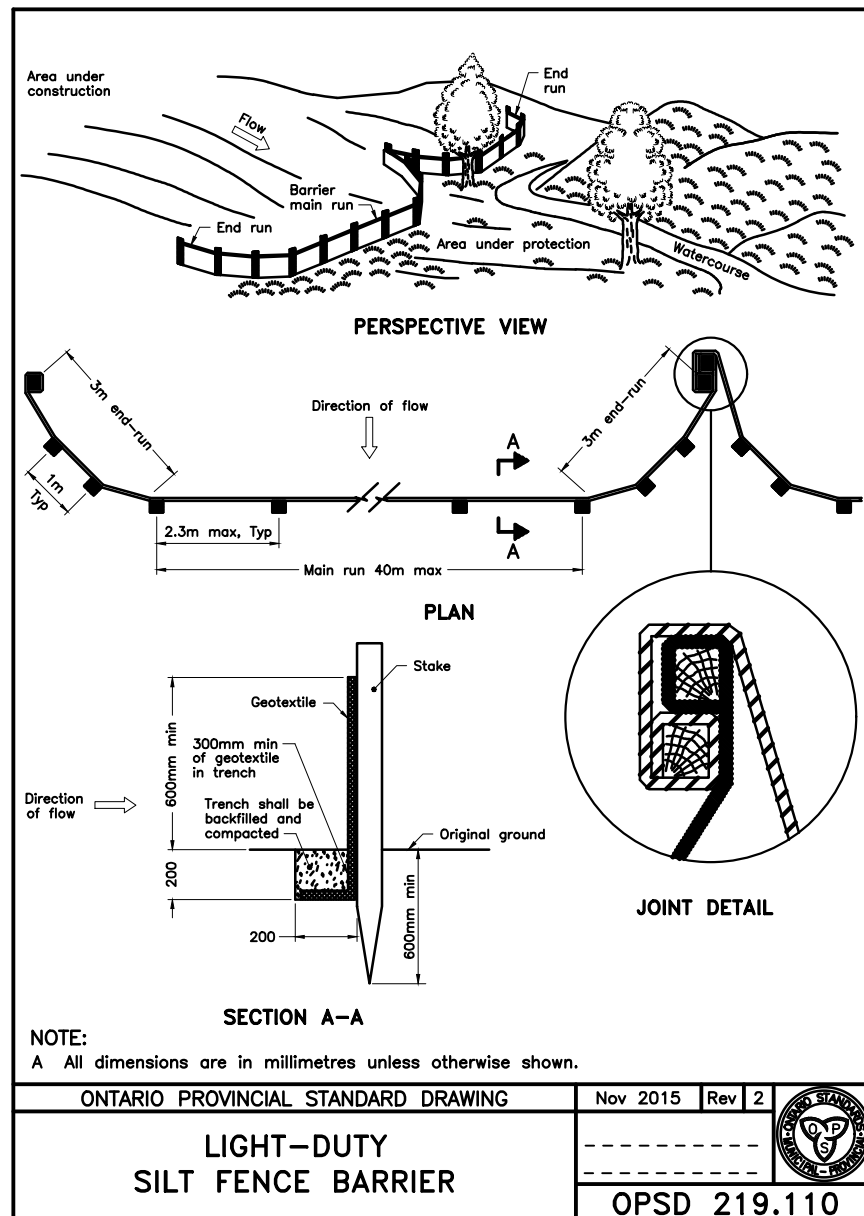
5 TYPICAL SERVICE TRENCH DETAIL
SCALE: N.T.S.



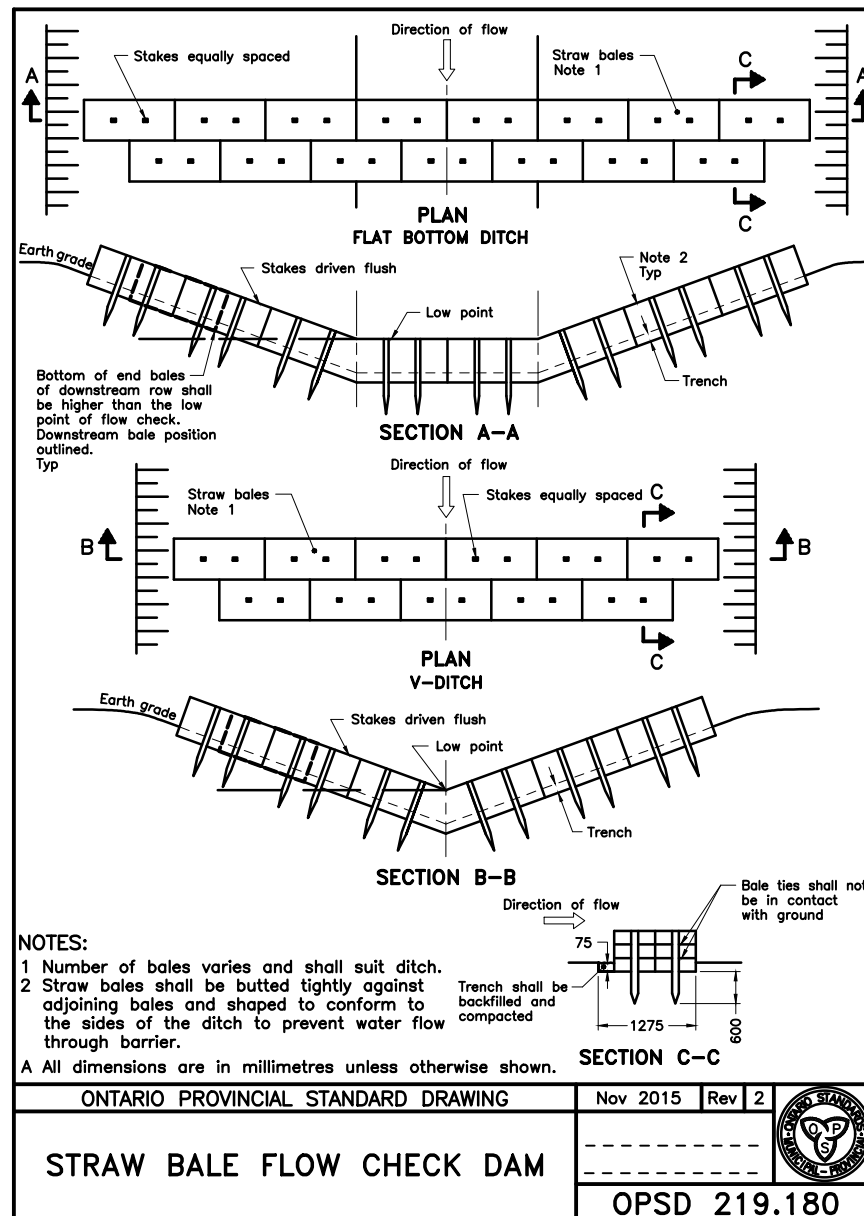
6 TYPICAL 10m WIDE DOUBLE GATE
SCALE: N.T.S.



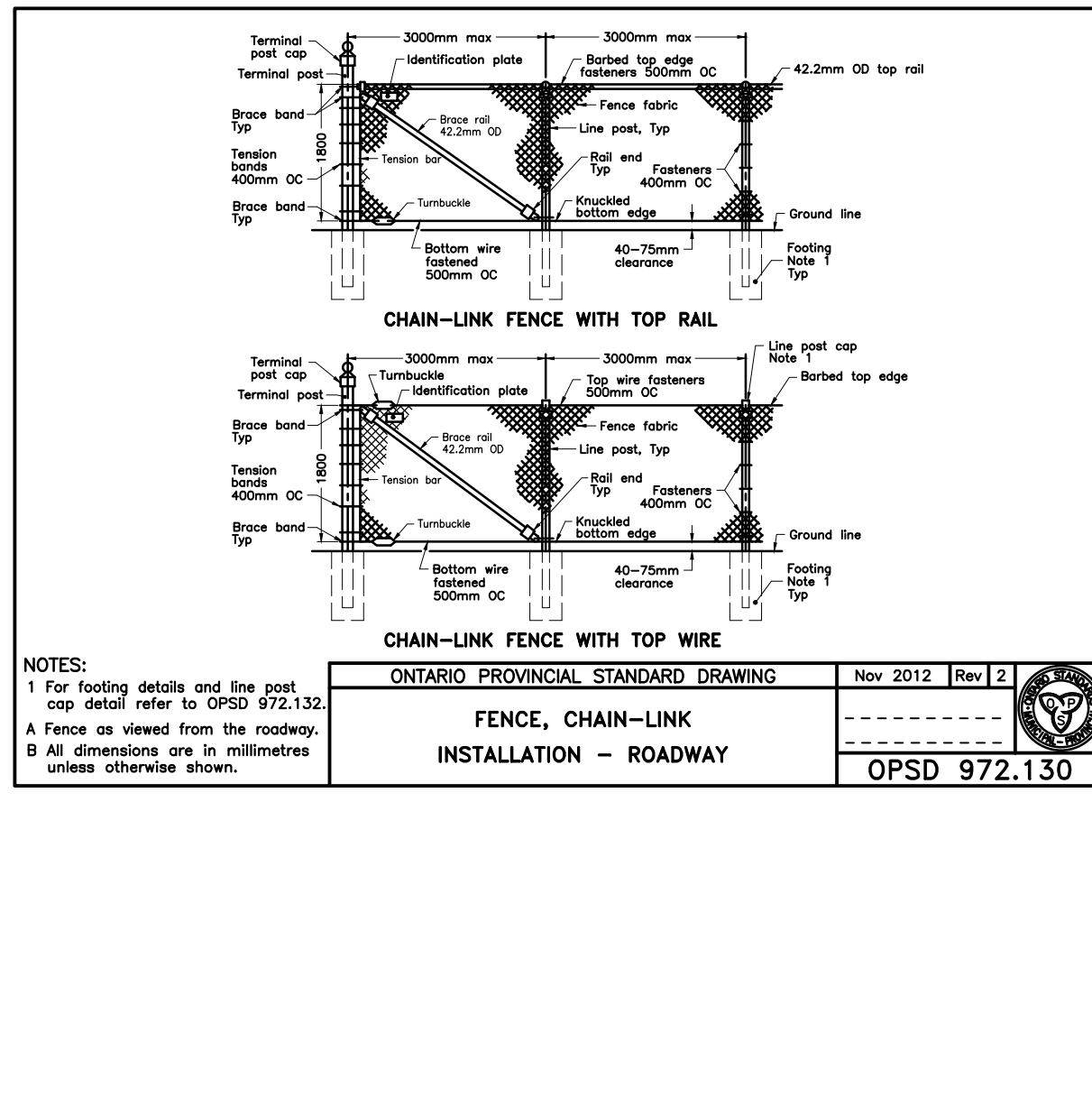
7 TYPICAL 10m WIDE SINGLE GATE
SCALE: N.T.S.



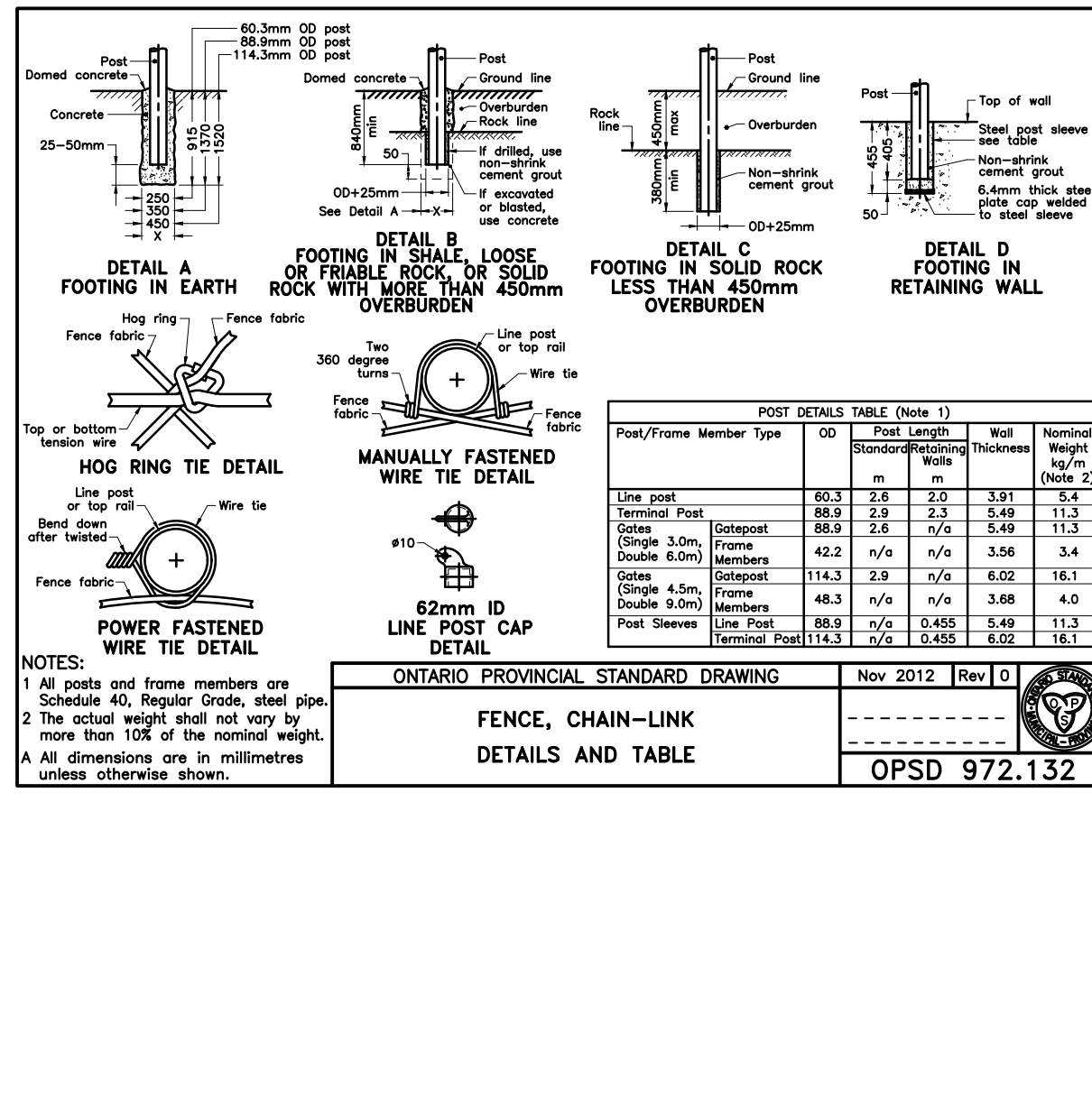
8 LIGHT-DUTY SILT FENCE BARRIER
SCALE: N.T.S.



9 STRAW BALE FLOW CHECK DAM
SCALE: N.T.S.



10 FENCE, CHAIN-LINK INSTALLATION - ROADWAY
SCALE: N.T.S.



11 FENCE, CHAIN-LINK DETAILS AND TABLE
SCALE: N.T.S.

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MOHAWK COUNCIL OF AKWESASNE

CORNWALL ISLAND
SALT STORAGE FACILITY

DETAILS & O.P.S.D.'S

SCALE: AS SHOWN	JOB NO: 22226
DESIGNED BY: A.V.	DATE: 2026/06/05
DRAWN BY: K.B.W./M.K.	DRAWING NO.
CHECKED BY: K.M.	C2.1

The diagram illustrates the foundation plan for bollard locations. It features a central vertical rectangle representing the bollard, with a smaller inner rectangle indicating the core. The outer rectangle has a width of 450 units. The total height of the foundation is 1500 units, with a minimum height of 1500 units indicated. The top section of the foundation is 1200 units high. The top of the bollard is labeled 'SURE GUARD HDPE 170mm BOLLARD COVER (VERIFY COLOUR WITH OWNER)'. The bollard itself is labeled '1680 O.D. SCHED 40 STEEL PIPE BOLLARD. HOT DIP GALVANIZED. FILL SOLID WITH CONCRETE'. The base of the foundation is labeled 'SLOPED CONCRETE'. The bottom section of the foundation is 150 units high.

NOTES:

1. BOLLARD FOUNDATION TO BE CONCRETE FILLED SONOTUBE. REFER TO CONCRETE TYPES SCHEDULE.
2. REFER TO FOUNDATION PLAN ON S1.1 FOR BOLLARD LOCATIONS.

50mm WIDE x 25mm DEEP GROOVE SLOPED TO PROVIDE DRAINAGE (4)

ANCHOR ASSEMBLY SUPPLIED BY POLE MANUFACTURER INSTALLED BY FOUNDATION CONTRACTOR

4-10M TIES @ 75 o.c. TOP

600

FINISHED GRADE

GRAN. 'B' BACKFILL COMPACTED TO 98% S.P.M.D.D.

2100 MINIMUM

5000 CONCRETE PIER

10M TIES @ 300 o.c.

6-20M VERTICAL

500 MIN.

ELECTRICAL CONDUIT. COORDINATE WITH ELECTRICAL CONTRACTOR

(CONFIRM WITH BASEPLATE AND ANCHOR BOLT SIZE PRIOR TO CONSTRUCTION)

NOTES:

1. DESIGN BASED ON: GADCO ECOFORM SMALL STRAIGHT SQUARE LIGHT FIXTURE (MAX. 6m HEIGHT) REFER TO ELECTRICAL FOR MOUNTING FIXTURE MODEL. REPORT ANY CHANGES IN PRODUCT OR MOUNTING HEIGHTS TO THE ENGINEER.
2. ANCHOR BOLT DESIGN AND SUPPLY BY LIGHT SUPPLIER.
3. DESIGN BASED ON MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF SLS=200kPa, ULS=300kPa.
4. COORDINATE EXACT LOCATION FOR CONDUIT SLEEVES WITH ELECTRICAL CONTRACTOR.

Technical drawing of a 250 Anchor Rod. The drawing shows a vertical rod with a hex head nut and washer at the bottom, and a threaded section at the top. The rod is labeled "250 ANCHOR ROD GRADE 300W". The drawing includes dimensions: 115 for the top section, 510 for the main body, and 675 for the total length. A note states: "NOTE: ALL ANCHOR RODS TO BE HOT DIPPED GALVANIZED". The bottom section is labeled "HEAVY WASHER" and "DOUBLE HEAVY HEX HEAD NUT". The bottom section is also labeled "250 ANCHOR ROD".

25 MPa NORMAL DENSITY CONCRETE WITH 400 MPa REBAR						
REBAR LOCATION	10M	15M	20M	25M	30M	35M
TOP BARS - CLASS A	430	600	740	1190	1400	1670
TOP BARS - CLASS B (TYP.)	560	760	960	1540	1820	2180
OTHER BARS - CLASS A	330	460	570	910	1080	1290
OTHER BARS - CLASS B (TYP.)	430	600	750	1190	1400	1670
30 MPa (OR HIGHER) NORMAL DENSITY CONCRETE WITH 400 MPa REBAR						
REBAR LOCATION	10M	15M	20M	25M	30M	35M
TOP BARS - CLASS A	390	550	670	1080	1280	1530
TOP BARS - CLASS B (TYP.)	510	710	870	1410	1660	1990
OTHER BARS - CLASS A	300	420	520	830	990	1180
OTHER BARS - CLASS B (TYP.)	390	550	670	1080	1280	1530

NOTES:

1. TABLES ARE RELEVANT ONLY TO HEAVIER CONFINED BARS.
2. TOP BARS ARE ALL BARS IN CONCRETE WITH MORE THAN 300mm PLACED BELOW THEM AND ALL HORIZONTAL BARS IN WALLS.
3. PROVIDE CLASS B LAPS UNLESS NOTED OTHERWISE.
4. FOR EPOXY BARS MULTIPLY TOP BAR LENGTHS X 1.3.
5. FOR EPOXY BARS MULTIPLY ALL OTHER BAR LENGTHS X 1.5.

Diagram illustrating the development length of 15M and 20M dowels. The 15M dowel has a height of 600 U.N.O. and a base width of 260. The 20M dowel has a height of 1000 U.N.O. and a base width of 320. Both are labeled 'B/O SLAB OR FOOTING'.

Diagram showing the reinforcement layout for a rectangular opening in a slab. The opening is square, with a diagonal cross indicating the location of reinforcement bars. The diagram includes dimensions: 50 CLR TYP. (typical clear distance), 610 MIN. CLASS B (minimum bar spacing), and 100 TYPICAL (typical bar diameter).

13 (5/8") WIDE x 20 (5/8") DEEP
REGLET EACH FACE. FILL
WITH SIKAFLEX 2C NS EZ

CARRY ADDITIONAL HORIZ.
BARS (IF SHOWN AT TOP AND
BOTTOM OF WALL)
CONTINUOUSLY THROUGH
JOINT. STOP 50% OF ALL OTHER
HORIZONTAL BARS 75 (3") EACH
SIDE OF CONTROL JOINT

TOP BARS CONTINUOUS

75 75

CONTROL JOINT

STOP EVERY 2ND
BAR AT JOINT

BOTTOM BARS CONTINUOUS

WALL ELEVATION

NOTE:
1. THE SEALANT BE PROTECTED
FROM DAMAGE FROM BACKFILLING.

CONTINUOUS STANDARD KEY

13 (5/8)" WIDE x 2 (1/2)" DEEP
REGLET FOR CAULKING ON
FACES EXPOSED TO VIEW. FILL
WITH SIKAFLEX 2C NS EZ

HORIZONTAL REINFORCEMENT
CONTINUOUS THROUGH JOINT
(OR SPLICED WITH MINIMUM
CLASS 'B' LAP)

NOTES:

1. MAXIMUM LENGTH OF CONCRETE WALL PLACEMENT IS 15m OR 6m FROM CORNERS. REFER TO PLAN FOR CONSTRUCTION JOINT LOCATIONS.
2. ROUGHEN SURFACE TO 5mm AMPLITUDE.

1. DESIGN WORK IN ACCORDANCE WITH THE 2025 NATIONAL BUILDING CODE OF CANADA. CONSTRUCT IN ACCORDANCE WITH THE 2025 NATIONAL BUILDING CODE OF CANADA AND THE APPLICABLE REQUIREMENTS OR BY-LAWS OF THE AUTHORITY HAVING JURISDICTION.
2. POSTS, VERIFY AND MAINTAIN ALL DIMENSIONS, AND SITE CONDITIONS. REPORT DISCREPANCIES TO THE CONSULTANT.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE TO REVIEW DRAWINGS TO ENSURE DIMENSIONS CONFORM BETWEEN ALL DISCIPLINES. REPORT DISCREPANCIES TO THE CONSULTANT.
4. ALL LABOUR AND MATERIALS IN ACCORDANCE WITH THE LATEST EDITION OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND 2025 NATIONAL BUILDING CODE OF CANADA.
5. THE STRUCTURAL DRAWINGS REPRESENT FINISHED STRUCTURE ACTING AS A WHOLE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TEMPORARY SHORING, BRACING, ETC. AS REQUIRED TO ENSURE STABILITY AND SAFETY OF THE WORKERS DURING CONSTRUCTION.
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THE CONSTRUCTION METHODS WILL NOT CAUSE DAMAGE TO SURROUNDING BUILDINGS, STRUCTURES OR UTILITIES.
7. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH OTHER DISCIPLINES FOR REQUIRED EMBEDDED OR ANCHORED ITEMS OR OPENINGS. NOT ALL ITEMS OR OPENINGS ARE NECESSARILY SHOWN ON THE STRUCTURAL DRAWINGS.
8. THE STRUCTURE HAS BEEN DESIGNED FOR THE SERVICE LOADING INDICATED. CONTRACTOR RESPONSIBLE TO ENSURE THIS LOADING IS NOT EXCEEDED DURING CONSTRUCTION.

1. ALL CONCRETE SHALL BE NORMAL WEIGHT DESIGNED TO MEET THE PERFORMANCE CRITERIA INDICATED IN THE CONCRETE SCHEDULE (SEE BELOW).
2. PROVIDE CERTIFICATION THAT THE PLANT, EQUIPMENT, AND MATERIALS TO BE USED IN CONCRETE COMPLY WITH THE REQUIREMENTS OF CAN CSA-231/123.2 (CURRENT EDITION) AND THAT THE MIX IS ADJUSTED TO PREVENT ALKALI AGGREGATE REACTIVITY PROBLEMS.
3. THE AGGREGATE SOURCE MUST BE LISTED ON THE APPROVED LIST PUBLISHED BY THE MINISTRY OF TRANSPORTATION, ONTARIO.
4. WET CURE CONCRETE COMMENCING IMMEDIATELY AFTER CONCRETE HARDENS. USE NON-STAINING GEXTOTEXILE COVERING. ALL SURFACES SHALL BE MAINTAINED CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS.
5. CONCRETE HAULING TIME: MAXIMUM ALLOWABLE TIME FOR CONCRETE TO BE DELIVERED TO SITE AND DISCHARGED NOT TO EXCEED 120 MINUTES AFTER BATCHING (UNLESS NOTED AS LESS BY CONCRETE SUPPLIER).
6. COMPLETE COLD AND HOT WEATHER CONCRETING IN STRICT ACCORDANCE WITH CSA 231/123.2 (LATEST EDITION).
7. CONCRETE SHALL NOT BE PLACED UNTIL THE CONSULTANT HAS REVIEWED AND APPROVED THE WORK.
8. CONCRETE IS SPECIFIED AS PER THE PERFORMANCE ALTERNATIVE AS OUTLINED IN THE CONCRETE SCHEDULE TO BE PLACED IN PLACE.
9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR WORKING WITH THE CONCRETE SUPPLIER TO ENSURE THAT THE PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING, AND THE OWNERS SPECIFIED PERFORMANCE REQUIREMENTS. THE GENERAL CONTRACTOR SHALL MEET THE DOCUMENTATION AND QUALITY CONTROL REQUIREMENTS OUTLINED UNDER THE PERFORMANCE ALTERNATE OF TABLE 5 OF CANCSA-023.
10. SLUMP AND AGGREGATE SIZE TO BE REVIEWED BY THE GENERAL CONTRACTOR AND SUPPLIER TO MEET PLACEMENT AND FINISHING REQUIREMENTS WITHOUT SEGREGATION WHILE MEETING ALL OWNER SPECIFICATIONS.
11. CONCRETE LOW PERMEABILITY FOR EXPOSURE CLASS C-1 AND C-XL SHALL MEET THE REQUIREMENTS OF CANCSA-023.
12. ALL EDGES OF WALLS TO BE CHAMFERED 20mm x 20mm.
13. NO CALCIUM CHLORIDE IS PERMITTED, IN ANY FORM, IN ANY CONCRETE MIX WITHOUT THE EXPRESS WRITTEN CONSENT OF E&B.
14. REFER TO CONCRETE TYPE SCHEDULE FOR EXPOSURE CLASS AND ADDITIONAL INFORMATION. NOTE CORROSION INHIBITING ADMIXTURE.

1. LOCATE ALL UNDERGROUND PIPING, ELECTRICAL, OR OTHER UTILITIES PRIOR TO EXCAVATING OR DRILLING.
2. RELOCATE OR PROVIDE TEMPORARY SUPPORT TO ALL UTILITIES OR YARD PIPING THAT INTERFERES WITH THE EXCAVATION OR CONSTRUCTION ACTIVITIES.
3. REMOVE ALL TOPSOIL AND ORGANIC MATERIALS AND BACKFILL WITH SPECIFIED MATERIALS.
4. DISPOSE ALL EXCAVATED MATERIAL INCLUDING CONTAMINATED MATERIAL.
5. PROVIDE DE-WATERING EQUIPMENT AND METHODS TO PROVIDE A DRY WORK AREA AT ALL TIMES DURING CONSTRUCTION (IF APPLICABLE). REFER TO GEOTECHNICAL REPORT FOR GROUNDWATER ELEVATION.
6. USE ONLY APPROVED GRANULAR 'A' OR 'B' FILL AS NOTED.
7. NOTIFY THE GEOTECHNICAL CONSULTANT AND OBTAIN APPROVAL OF THE FOUNDATION LEVEL BEFORE PLACING OF CONCRETE.
8. PREVENT UNDERMINING OF ADJACENT FOUNDATIONS AND BUILDINGS.

1. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA G30.18 (CURRENT EDITION).
2. ALL REINFORCING STEEL DETAILING SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1 (CURRENT EDITION) AND REINFORCING MANUAL OF STANDARD PRACTICE (LATEST EDITION).
3. REINFORCING STEEL: GRADE 60 (40MPA) REINFORCING SHALL HAVE MINIMUM TENSILE STRENGTH OF 600 MPa. LAPS OR 40 BAR DIAMETERS. REBAR TO BE LAPPED AT SPLICES AND CORNERS AS REQUIRED BY CSA A23.3. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AND BOTTOM BARS AT SUPPORTS AS REQUIRED. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS. CONTRACTOR RESPONSIBLE FOR PROVIDING ADDITIONAL BARS AS REQUIRED TO SUPPORT SPECIFIED BARS.
4. REINFORCING SHALL BE SUPPORTED AND HELD FIRMLY IN PLACE SO AS NOT TO MOVE DURING POURING OPERATIONS. DOWELS SHALL BE USED TO FIRMLY CLAMP AND SHOULD NOT BE SET IN PLACE DURING POURING OPERATIONS.
5. MINIMUM REINFORCING CLEAR COVER:
FOOTING TOP = 60mm
FOOTING BOTTOM = 75mm
FOOTING SIDES = 60mm
WALLS OUTSIDE FACE = 40mm
WALLS INSIDE FACE = 60mm
6. THE CONTRACTOR SHALL SUBMIT REINFORCEMENT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
7. PROVIDE REINFORCEMENT SUPPORT CHAIRS, SPACER BARS AND OTHER MATERIALS IN ACCORDANCE WITH CSA A23.1 AND A23.3 (LATEST EDITION). CHAIRS TO BE PLASTIC.

1. DESIGN BEARING CAPACITY IS PER GEOTECHNICAL INVESTIGATION REPORT NO. 22C378 DATED DECEMBER 31, 2022 BY ST. LAWRENCE TESTING & INSPECTION CO. LTD.:
SLS = 200 kPa
ULS = 300 kPa
GEOTECHNICAL CONSULTANT TO VERIFY SUBGRADE SOIL, BEARING CAPACITY, AND COMPACTION PROCESS IN WRITING PRIOR TO POURING CONCRETE.

1. ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED IN ACCORDANCE WITH CSA S269.1-16 FALSEWORK AND FORMWORK.
2. PENETRATIONS SHALL NOT BE PERMITTED IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE INDICATED ON THE STRUCTURAL DRAWING WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD.

GENERAL BUILDING CODE:
NATIONAL BUILDING CODE OF CANADA 2025

CONCRETE:
CAN/CSA-A23.3-19 - DESIGN OF CONCRETE STRUCTURES

1. IMPORTANCE CATEGORY IS NORMAL.
2. ALL BASE REACTIONS OF PRE-ENGINEERED BUILDING ARE PROVIDED BY BUILDING SUPPLIER.
3. REFER TO GEOTECHNICAL REPORT FOR SOIL DATA CONSIDERED IN LATERAL PRESSURE CALCULATION.
4. MAX SALT STORAGE = 1000 TONS (DENSITY = 1282 kg/m³) ANGLE OF REPOSE = 32 DEGREES.
5. MAX STONE DUST STORAGE = 1500 TONS (DENSITY = 1600 kg/m³) ANGLE OF REPOSE = 37 DEGREES.

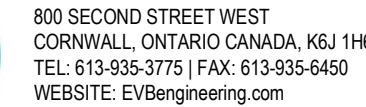
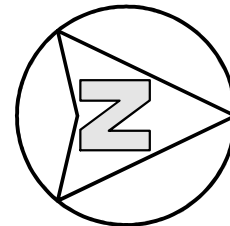
MINIMUM 28 DAY COMPRESSIVE STRENGTH	MAXIMUM SLUMP	EXPOSURE CLASS	W/C RATIO	AIR CONTENT
MIX 1 - FOUNDATION WALLS AND FOOTINGS				
35 MPa (56 DAYS)	SEE 2	C-1	0.40	5-8%
MIX 2 - EXTERIOR PIERS, APRONS, AND BOLLARDS				
32 MPa	70±20	C-2	0.45	5-8%

2. MAXIMUM AGGREGATE SIZE OF ALL CONCRETE TO BE 20mm.
FOR MAXIMUM SLUMP IN TABLE NOTED AS "SEE 2". PROVIDE A
CONCRETE MIX DESIGN WITH A SLUMP OF 50mm. ADJUST SUPER-
PLASTICIZER TO PRODUCE A CONCRETE SLUMP OF 125±25mm. (NO
REQUIRED IN FOOTINGS).
3. FOUNDATION WALLS: ADD 20l/m³ OF CALCIUM NITRITE BASED
CORROSION INHIBITING ADMIXTURE. CONTAINS 30% (MIN) CALCIUM
NITRITE (BY MASS) - BASF RHEOCRETIC ON OR APPROVED
EQUIVALENT. NOT REQUIRED IN FOOTINGS.
4. WITH CONCRETE MIX HAVING A CORROSION INHIBITORS, PROVIDE
SET RETARDING ADMIXTURE AS REQUIRED (SIKA PLASTIMORT OR
EQUIVALENT). COORDINATE WITH CONCRETE SUPPLIER.
5. ADMIXTURES SHALL BE ADDED SEPARATELY TO THE CONCRETE MIX.
FOLLOW MANUFACTURER'S RECOMMENDATIONS.
6. CONVEY CONCRETE FROM TRUCK TO FINAL LOCATION BY METHODS
WHICH MINIMIZE SEPARATION OF MATERIAL OR LOSS OF MATERIAL. MAXIMUM
FREE FALL NOT TO EXCEED 1.5m (5'-0"). CONSOLIDATE CONCRETE
USING MECHANICAL VIBRATORS.
7. PLACE CONCRETE AS CLOSE TO FINAL LOCATION TO AVOID
SEPARATION. VIBRATE ALL CONCRETE.

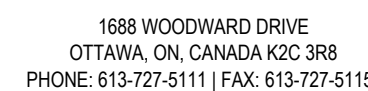


2026/06/30	1	ISSUED FOR TENDER
DATE	No.	REVISION

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SUB-CONSULTANT



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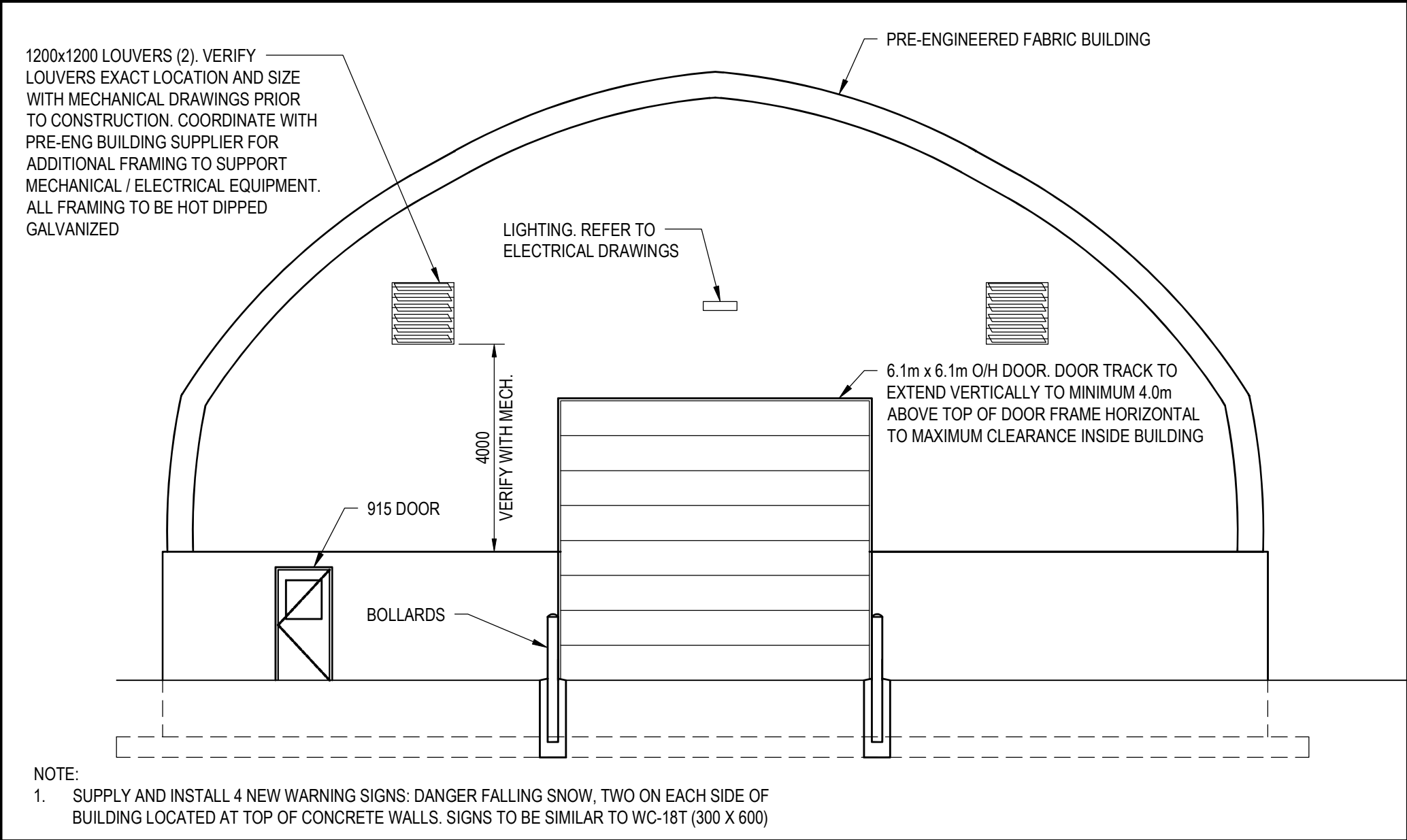


CORNWALL ISLAND
SALT STORAGE FACILITY

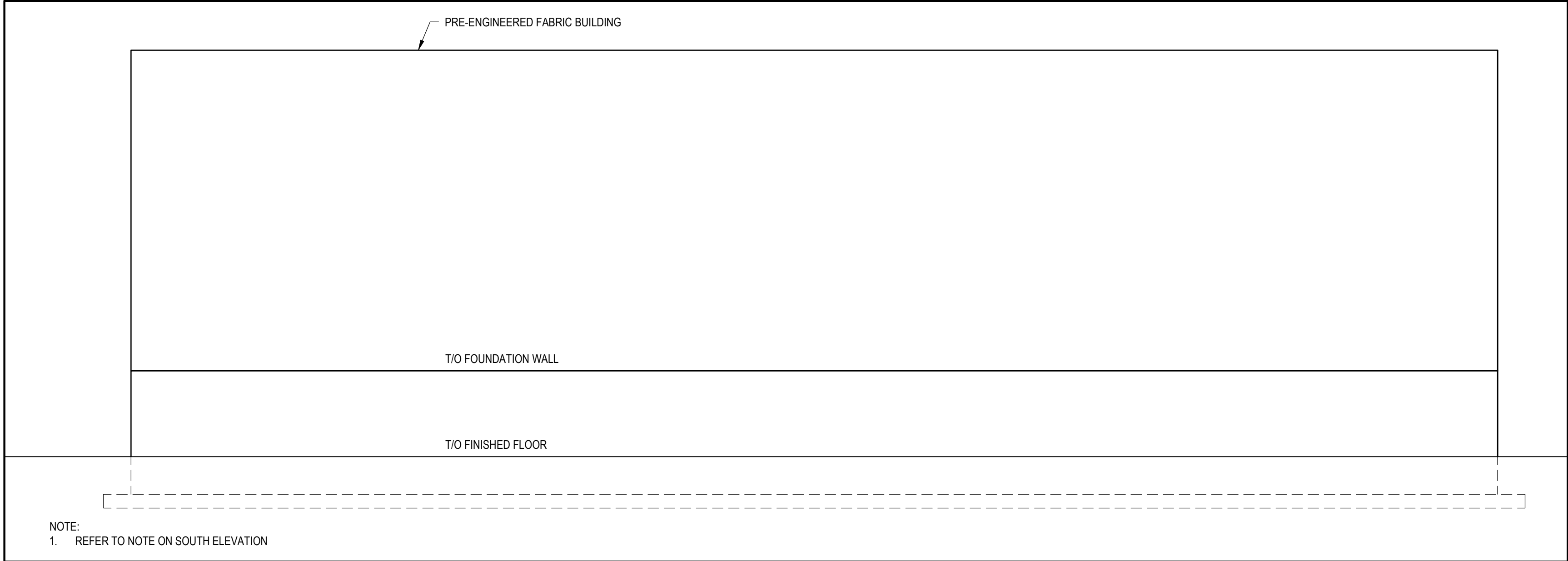
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FOUNDATION PLAN AND BUILDING CODE DATA MATRIX

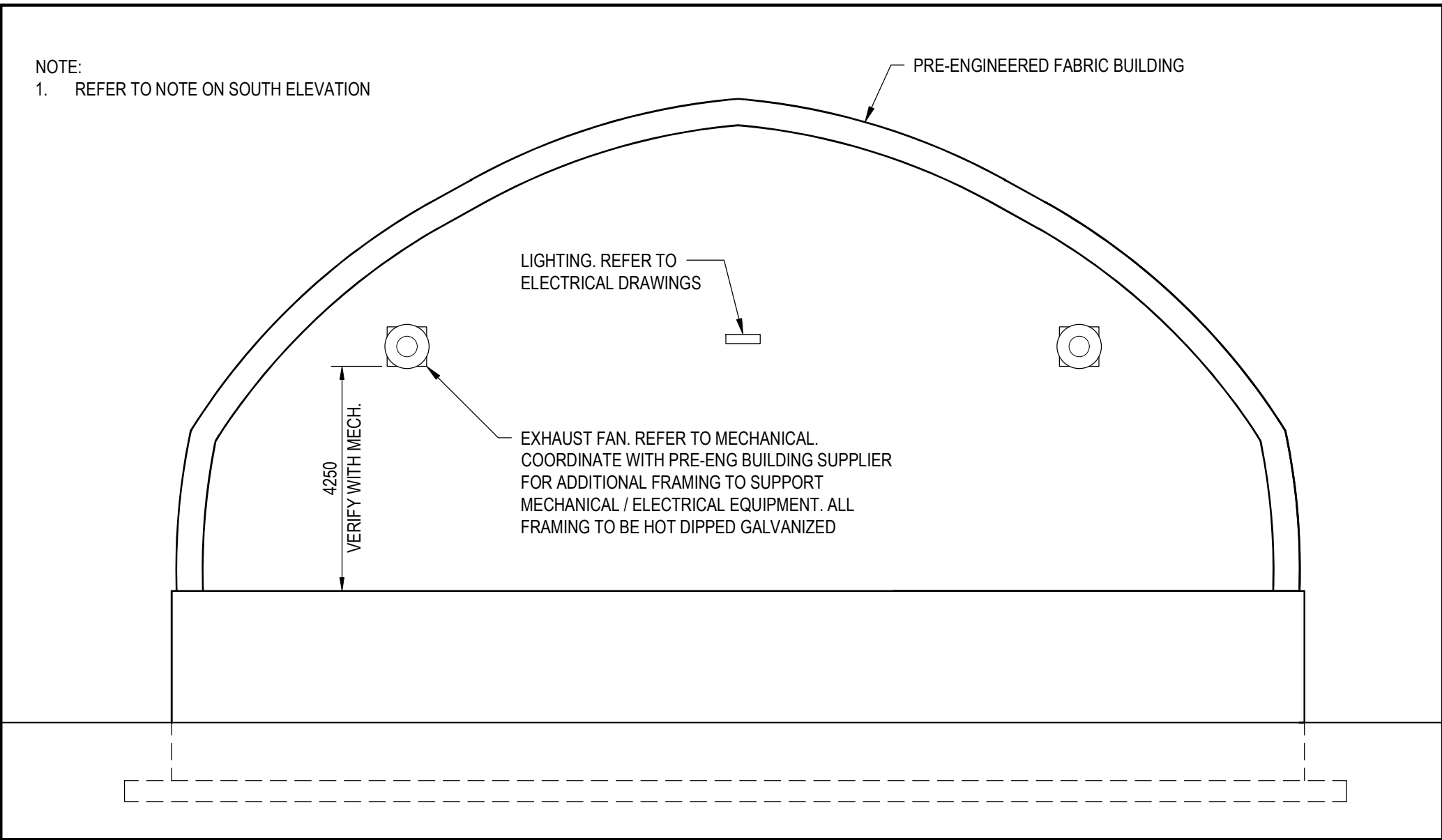
SCALE:	JOB NO:
AS SHOWN	22226
DESIGNED BY:	DATE:
W.A.	2026/06/05
DRAWN BY:	DRAWING NO.
J.G.	S1.1
CHECKED BY:	
G.E.	



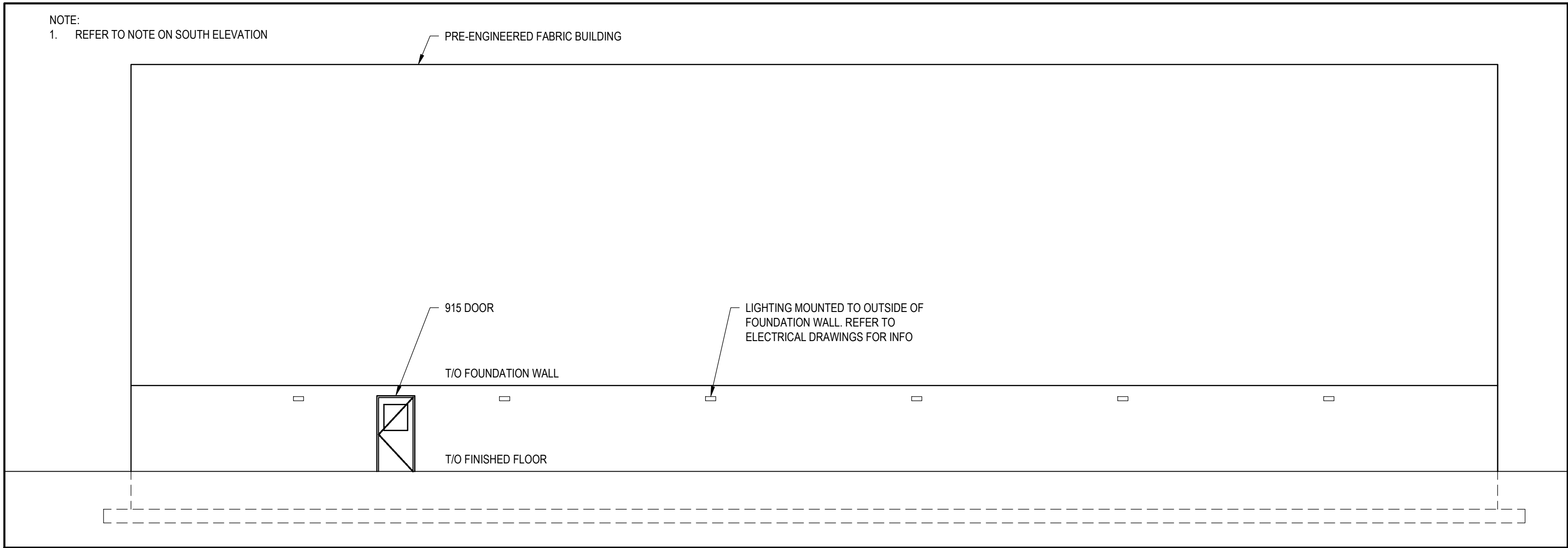
SOUTH ELEVATION
SCALE: 1:100



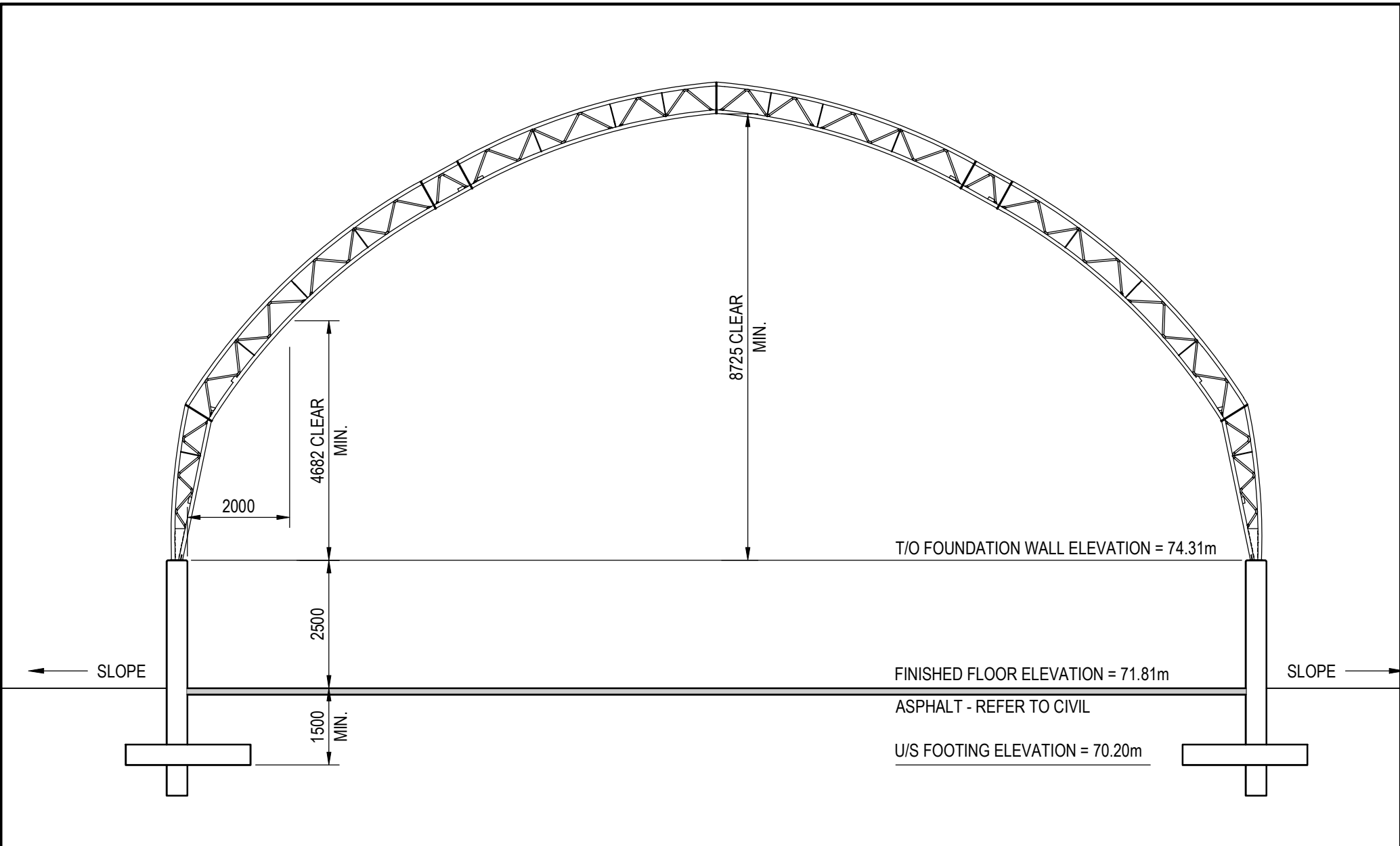
WEST ELEVATION
SCALE: 1:100



NORTH ELEVATION
SCALE: 1:100



EAST ELEVATION
SCALE: 1:100



BUILDING SECTION
SCALE: 1:100

2026/06/30	1	ISSUED FOR TENDER
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PROJECT:

**CORNWALL ISLAND
SALT STORAGE FACILITY**

TITLE:

**ELEVATIONS AND
BUILDING SECTION**

SCALE: 1:100	JOB NO: 22226
DESIGNED BY: W.A.	DATE: 2026/06/05
DRAWN BY: J.G.	DRAWING NO.
CHECKED BY: G.E.	S2.1

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	MODEL	LAMP	COMMENTS
A	VAPOR TIGHT, WET LOCATION INDUSTRIAL LED STRIP LIGHT WITH INTEGRAL HIGH BAY MOTION SENSOR. - 120V - 80W	VISCOR: LHBV48-LED840K120LUNV-V82(UNV) OR APPROVED EQUIVALENT.	4000K LED, 80 CRI, 12,000 LUMENS	SURFACE MOUNTED TO UNDERSIDE OF CANOPY STRUCTURE. COORDINATE MOUNTING REQUIREMENTS AS NECESSARY.
B	WALL MOUNT, OUTDOOR LARGE WALL SCONCE, C/W INTEGRAL MOTION SENSOR FOR BI-LEVEL DIMMING. 120V - 90W - BLACK FINISH	KEENE: LYTEPRO LPW32-90-NW-G3-4-120-BL-IMR3-BK OR APPROVED EQUIVALENT.	4000K LED, 70 CRI, 10,000 LUMENS, TYPE 4 DIST.	WALL MOUNTED AT 6000mm ABOVE GRADE UNLESS OTHERWISE INDICATED. CONTROLLED BY LINE VOLTAGE PHOTOCELL MOUNTED ON BUILDING EXTERIOR.
C	WALL MOUNT, OUTDOOR, SMALL WALL SCONCE. 120V - 20W - BLACK FINISH	KEENE: LYTEPRO LPW16-20-NW-G3-4-120-BK OR APPROVED EQUIVALENT.	4000K LED, 70 CRI, 2,500 LUMENS, TYPE 4 DISTRIBUTION	WALL MOUNTED AT 2100mm ABOVE GRADE UNLESS OTHERWISE INDICATED. CONTROLLED BY LINE VOLTAGE PHOTOCELL MOUNTED ON BUILDING EXTERIOR.
D	POLE MOUNTED AREA LIGHT C/W SQUARE STEEL POLE. BLACK FINISH - STANDARD ARM MOUNT - 120V C/W INTERNAL FUSING AND INTEGRAL MOTION SENSOR FOR BI-LEVEL DIMMING.	GARCO ECOFORM SMALL: ECF-S-32L-1.2A-NW-G2-AR-3-120-BL-IMR3-F1-BLK OR APPROVED EQUIVALENT.	4000K LED, 15,000 LUMENS, TYPE 3 DISTRIBUTION, 122W	C/W GARCO SQUARE STRAIGHT STEEL POLE - BLACK FINISH. POLE HEIGHT 6m (20FT). COORDINATE REQUIRED POLE GAUGE WITH POLE SUPPLIER.
X1	NEMA 4X WEATHERPROOF EXIT/EMERGENCY LIGHTING COMBO UNIT, GREEN PICTOGRAM, COLD WEATHER (40°C) RATED, 120V.	LUMACELL: LNC1B6N36LD1CW	2 X 4W MR16 LED EMERGENCY LIGHT HEADS	SURFACE MOUNTED ABOVE EXIT DOOR.

5.5m (18'-0") REFER TO LIGHT STANDARD SCHEDULE

LUMINAIRE, REFER TO LIGHT STANDARD SCHEDULE ON DRAWING FOR SPECIFICATIONS

STEEL POLE, REFER TO LIGHT STANDARD SCHEDULE FOR SPECIFICATIONS

HANDHOLE

BASE COVER, SUPPLIED WITH POLE

PROVIDE STAINLESS STEEL MOUNTING HARDWARE AND INSTALL PER MANUFACTURERS INSTRUCTIONS

COORDINATE ANCHOR BOLT ARRANGEMENT WITH CONCRETE BASE INSTALLER

FINISHED GRADE

53mm PVC CONDUIT, 150mm MIN COMPACTED SAND SURROUND

53mm CONDUIT ENTRY, COORDINATE WITH CONCRETE BASE INSTALLER

REFER TO STRUCTURAL DRAWINGS, FOR CONCRETE BASE DETAILS

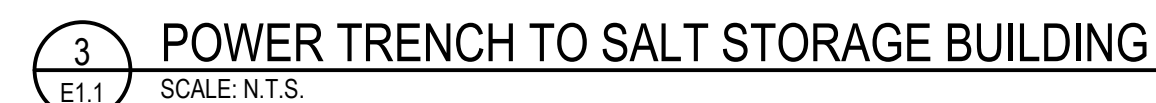
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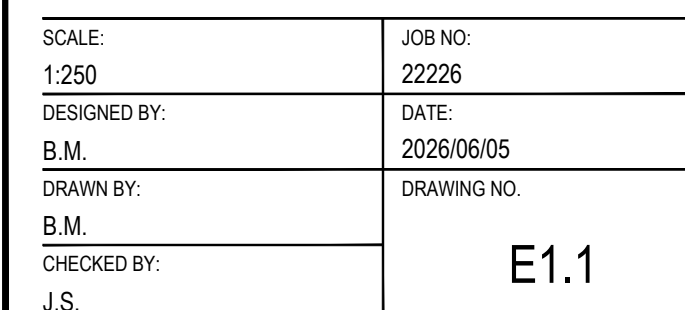
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Consulting Engineers

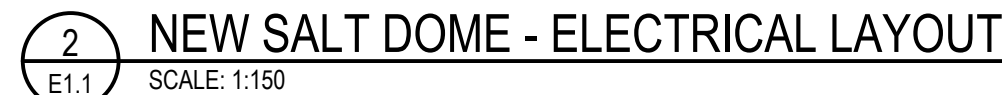
CORNWALL ISLAND SALT STORAGE FACILITY

SCALE: NTS	JOB NO: 22226
DESIGNED BY: B.A.M.	DATE: 2026/06/05
DRAWN BY: B.A.M.	DRAWING NO. E0.1
CHECKED BY: J.E.S.	



- | | | |
|---------------------------------|-----|------|
| SELECTED SERVICE SIZE: | 400 | AMPS |
| % LOADED (MAX. DEMAND, FUTURE): | 48 | % |





	1200mm LINEAR SEALED LED FIXTURE WITH INTEGRAL OCCUPANCY SENSOR. REFER TO SPECIFICATIONS. SURFACE MOUNTED TO STRUCTURAL STEEL FRAME ABOVE. PROVIDE STAINLESS STEEL MOUNTING HARDWARE.
	LED WALL PACK (LARGE) C/W WITH INTEGRAL OCCUPANCY SENSOR AND STEP DIMMING CONTROLS. REFER TO SPECIFICATIONS. PROVIDE MOUNTING SUPPORT BRACING AS REQUIRED. M 8000mm.
	LED WALL PACK (SMALL). REFER TO SPECIFICATIONS. MOUNTED TO OUTSIDE OF CONCRETE FOUNDATION WALL. MH 2100mm.
	COMBINATION EXIT SIGN / EMERGENCY LIGHT. SURFACE MOUNTED TO CONCRETE 300mm ABO EXIT DOOR. WIRED TO UNSWITCHED SIDE OF LIGHT CIRCUIT.
	120V-20A, GFCI DUPLEX RECEPTACLE IN WEATHERPROOF, WHILE IN USE COVER. MH: 1200mm.
	MAGNETIC MOTOR STARTER C/W H.O.A.
	DISCONNECT SWITCH
	SINGLE PHASE MOTOR CONNECTION, HP AS INDICATED.
	HIGH BAY, LOW VOLTAGE (24V) OCCUPANCY SENSOR SWITCH SUPPORTED FROM STRUCTURAL FRAME ABOVE (WIRED IN PARALLEL TO POWER PACK).
	120V-20A LINE VOLTAGE PHOTOCCELL MOUNTED NORTH SIDE OF BUILDING EXTERIOR TO CONTR EXTERIOR LIGHTING.
B-12	CIRCUIT TAG: PANEL-CIRCUIT NUMBER EX: PANEL B; CIRCUIT '12'
WP	WEATHERPROOF
WG	WIRE GUARD
MH	MOUNTING HEIGHT
	DRAWING NOTE REFERENCE.

6-#6 & 2-#8 BD, RWU90, IN 53mm PVC

- CONDUIT TYPE
- CONDUIT SIZE
- INSULATION TYPE
- BONDING CONDUCTOR SIZE (AWG OR MCM)
- QUANTITY OF BONDING CONDUCTORS (NOT SHOWN FOR QUANTITY OF 1)
- CIRCUIT CONDUCTOR SIZE (AWG OR MCM)
- CU CONDUCTOR UNLESS OTHERWISE NOTED
- QUANTITY OF CIRCUIT CONDUCTORS (NOT SHOWN FOR QUANTITY OF 1)

1. ALL BRANCH CIRCUIT WIRING WITHIN SALT STORAGE BUILDING TO BE TECK 90. REFER TO SPECIFICATIONS.
2. ELECTRICAL DEVICES AND EQUIPMENT TO BE NEMA4/4X, WEATHERPROOF WITHIN SALT STORAGE BUILDING.
3. OVERHEAD DOOR OPERATOR TO BE SUPPLIED AND INSTALLED BY DOOR SUPPLIER. ALL POWER AND CONTROL WIRING BY THIS TRADE.
4. EXTERIOR LIGHTING TO OPERATE ON LINE VOLTAGE PHOTOCELL. INSTALLED ON NORTH SIDE OF BUILDING. PROVIDE HAND-OFF-AUTO SELECTOR IN NEMA 4X EQUIPMENT ENCLOSURE.
5. COORDINATE INSTALLATION OF PVC CONDUIT SLEEVES THROUGH CONCRETE FOUNDATION AS NECESSARY.

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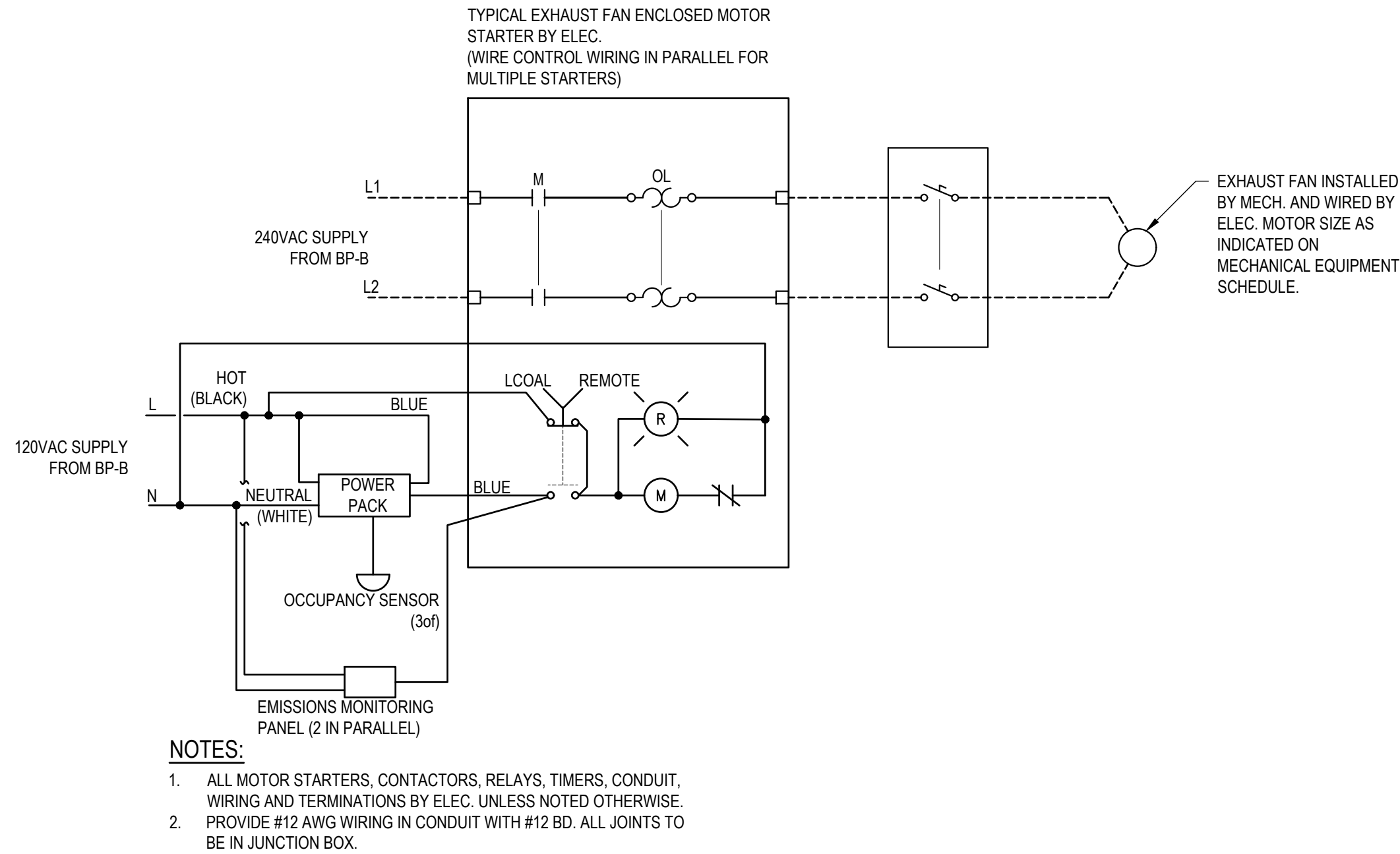
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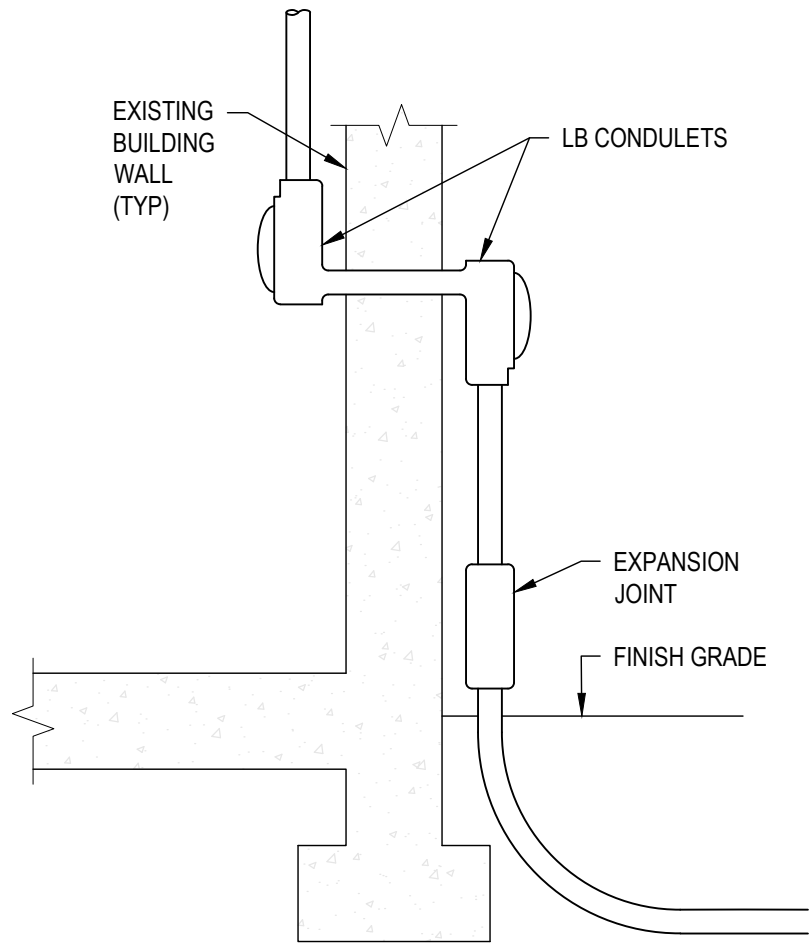
TITLE:

ELECTRICAL LAYOUT &
SINGLE LINE DIAGRAM

SCALE:	JOB NO:
AS NOTED	22226
DESIGNED BY:	DATE:
B.M.	2026/06/05
DRAWN BY:	DRAWING NO.
B.M.	E2.1
CHECKED BY:	
J.S.	

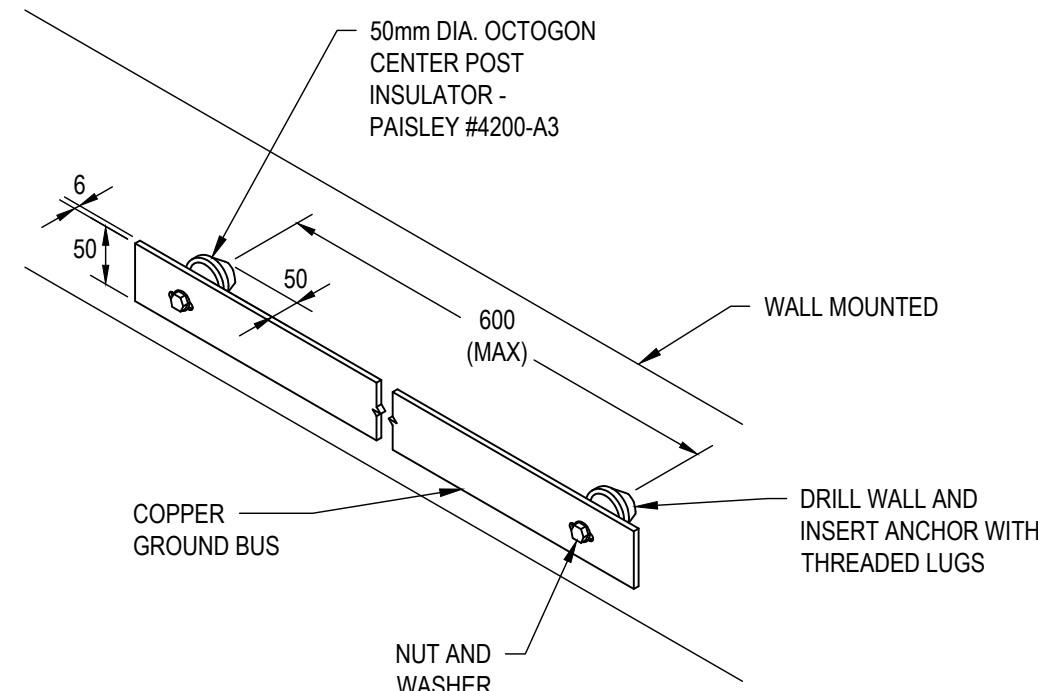


1 EXHAUST FAN CONTROL DETAIL
E3.1 SCALE: NTS



- NOTES
- INSTALL CONDUITS THROUGH EXISTING WALLS IN ACCORDANCE WITH THIS DETAIL IF NOT OTHERWISE INDICATED.
 - DRILL HOLE USING METHODS THAT LEAVE A SMOOTH OPENING. SEAL OPENING AROUND CONDUIT, INSIDE, AND OUTSIDE, WITH IMMERSIBLE POLYURETHANE SEALANT.

2 CONDUIT ENTRANCE ABOVE GRADE
E3.1 SCALE: NTS



- NOTES:
- ALL CONNECTIONS WITH DOUBLE BOLT COMPRESSION LUG.

3 GROUND BUS DETAIL
E3.1 SCALE: NTS

NOTES:

-

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PROJECT:

CORNWALL ISLAND
SALT STORAGE FACILITY

TITLE:

ELECTRICAL DETAILS

SCALE: AS NOTED	JOB NO: 22226
DESIGNED BY: B.M.	DATE: 2026/06/05
DRAWN BY: B.M.	DRAWING NO.
CHECKED BY: J.S.	E3.1

CORNWALL ISLAND - SALT STORAGE FACILITY

MOHAWK COUNCIL OF AKWESASNE

MECHANICAL

GENERAL LEGEND	
SYMBOL	DESCRIPTION
	DUCTWORK/EQUIPMENT
	DUCTWORK/EQUIPMENT BELOW SLAB

DRAWING LIST	
SYMBOL	DESCRIPTION
M0.1	MECHANICAL DRAWING LIST, LEGENDS, GENERAL NOTES, SCHEDULES & SPECIFICATIONS
M1.1	MECHANICAL PLANS & ELEVATIONS

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	LOW VOLTAGE CONTROL WIRING
	CARBON MONOXIDE SENSOR
	NITROGEN OXIDE SENSOR
	FIRE EXTINGUISHER C/W MOUNTING BRACKET
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	ALARM / STRUBE
	EXHAUST FAN (EF)
	LOUVRE (L)
	GRILLE TAG GRILLE TYPE AIRFLOW (L/S)(CFM) DIMENSIONS (mm)(in)

GENERAL NOTES:

- ALL WORK SHOWN OR IMPLIED ON THESE DRAWINGS SHALL BE CARRIED OUT IN ACCORDANCE WITH:
 - ALL CODES AND LAWS APPLICABLE (OBC)
 - INSTRUCTIONS TO BIDDERS
 - IN ACCORDANCE WITH SAAO/A-LATEST EDITION (DUCTWORK)
 - IN ACCORDANCE WITH FM & NFPA (FIRE PROTECTION)
 - IN ACCORDANCE WITH ILC STANDARDS
- PRIOR TO SUBMITTING TENDERS, EACH TRADE SHALL EXAMINE THE SITE TO DETERMINE THE CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK. NO CLAIM FOR EXTRA PAYMENT WILL BE CONSIDERED BECAUSE OF FAILURE TO FULFILL THIS CONDITION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS.
- THE DRAWINGS SHALL BE CONSIDERED TO SHOW THE GENERAL CHARACTER AND SCOPE OF THE WORK AND NOT THE EXACT DETAILS OF THE INSTALLATION. THE INSTALLATION SHALL BE COMPLETE WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIVE INSTALLATION.
- MECHANICAL CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE LOCATION OF NEW OR RELOCATED EQUIPMENT TO VERIFY CLEARANCES WITH THE MANUFACTURER PRIOR TO ORDERING.
- THESE MECHANICAL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- THE WORD "PROVIDE" SHALL DENOTE "SUPPLY AND INSTALL". THE WORD "TAB" SHALL DENOTE "TESTING, ADJUSTING, AND BALANCING".
- CONTRACTOR SHALL FOLLOW THE BIDDING DOCUMENT PROJECT SCHEDULE. UPON AWARD, CONTRACTOR SHALL SUBMIT WORK SCHEDULE TO PROJECT MANAGER & ENGINEER FOR APPROVAL.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES AND THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR COMMUNICATING SAFETY REQUIREMENTS TO ITS EMPLOYEES AND COMPLYING WITH OCCUPATIONAL HEALTH AND SAFETY ACT.
- CONTRACTOR TO PROVIDE, PRIOR TO COMMENCEMENT OF WORK, ONTARIO MINISTRY OF LABOUR CONTRACTOR REGISTRATION FORM AS WELL AS A CURRENT SIGNED AND DATED CORPORATE HEALTH AND SAFETY POLICY.
- CONTRACTOR TO PROVIDE FOR THE USE OF HIS WORK FORCE A FIRST AID KIT ACCEPTABLE TO WSIB AND MOL.
- PAY ALL REQUIRED FEES AND PERMITS.
- THE CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL TO THE SATISFACTION OF THE PROJECT MANAGER. THE CLEANING OF THE AFFECTED AREA SHALL BE CONTINUOUS. PLACE DUST PROTECTION IN THE FORM OF COVER SHEETS OVER EQUIPMENT AND FURNITURE TO ENSURE NO DUST INFILTRATION.
- EQUIPMENT REQUIRING CONNECTION TO AN ELECTRICAL POWER SOURCE SHALL BE CSA OR ILC APPROVED FOR USE AT LOCATION OF INSTALLATION.
- COORDINATE MATERIAL STORAGE WITH THE SITE SUPERINTENDENT AND OTHER TRADES.
- MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLATION AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION.
- SUPPLY TOOLS, EQUIPMENT AND PERSONNEL TO DEMONSTRATE AND INSTRUCT OPERATING AND MAINTENANCE PERSONNEL. IN OPERATING, CONTROLLING, ADJUSTING, TROUBLESHOOTING AND SERVICING OF ALL SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE.
- INSPECT ALL NEW EQUIPMENT UPON DELIVERY AND NOTIFY PROJECT ENGINEER OF ANY DAMAGE OR DEFICIENCIES.
- ALL EQUIPMENT, PIPING, DUCTWORK AND WIRING SHALL BE SUSPENDED FROM THE BUILDING STRUCTURE.
- PROVIDE BLACK WITH WHITE WRITING LAMACODI PLATE ON ALL NEW EQUIPMENT. LABEL UNIT AS SHOWN ON DRAWINGS. LETTERING SIZE TO BE MINIMUM 25MM HIGH. MOUNT NEAR CONTROL SECTION OF THE UNIT.
- UNLESS INDICATED OTHERWISE PROVIDE ONE (1) YEAR WARRANTY STARTING AT SUBSTANTIAL COMPLETION FOR ALL NEW SYSTEMS INCLUDING MATERIALS, EQUIPMENT & LABOUR.
- SUBMITTALS:
 - SUBMIT ONE(1) COPY OF SHOP DRAWINGS AND PRODUCT DATA IN ELECTRONIC PDF FORMAT FOR ENGINEER'S REVIEW PRIOR TO PURCHASING AND ORDERING. HARD COPY SHOP DRAWINGS WILL NOT BE ACCEPTED. REVIEWED ELECTRONIC SHOP DRAWINGS WILL BE RE-DISTRIBUTED AS PER PROJECT MANAGER'S INSTRUCTIONS. SHOP DRAWINGS SHALL INCLUDE ALL SPECIFIED EQUIPMENT & SYSTEMS.
 - PROVIDE SUBMITTALS IN ACCORDANCE WITH APPLICABLE CODES REQUIRED FOR OCCUPANCY INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - FIRE PROTECTION:
 - NFPA-13 CERTIFICATION LETTER (WARRANTY LETTER IS SUFFICIENT IF THE LETTER NOTES IN ITS CONTENT THAT THE INSTALLATION MEETS NFPA-13).
 - HVAC:
 - SEISMIC CERTIFICATION LETTER SUBMITTED.
 - MECHANICAL SCOPE OF WORK CONSIDERED COMPLETE WHEN THE FOLLOWING ITEMS HAVE BEEN RECEIVED AND REVIEWED BY ENGINEER:
 - ALL SHOP DRAWINGS LISTED IN THIS SPECIFICATION.
 - BALANCING REPORT IN ACCORDANCE WITH TAB SECTION IN SPECIFICATIONS.
 - AS-BUILT DRAWINGS SHOWING AS-BUILT CONDITIONS COMPLETE WITH RED LINED MARKUPS TO PROJECT MANAGER WITH CONTRACTOR'S SIGNATURE.
 - START-UP REPORT FROM MANUFACTURER OF EQUIPMENT.
 - TWO (2) COPIES OF OPERATIONS AND MAINTENANCE MANUALS CONTAINING ALL ITEMS PREVIOUSLY REVIEWED BY ENGINEER IN A THREE RING BINDER AND DIVIDERS ORGANIZING ALL SUBMISSIONS BY EACH MECHANICAL TRADE. OPERATIONS MANUAL TO ALSO INCLUDE THE FOLLOWING BUT SHALL NOT BE LIMITED TO:
 - LIST OF TRADES INVOLVED AND CONTACT INFORMATION.
 - CONTRACTOR'S LETTER OF WARRANTY.
 - ALL LETTERS REQUIRED FOR WORKPLACE CONFORMANCE.

MECHANICAL SPECIFICATIONS:

- SEISMIC RESTRAINT:**
 - PROVIDE COMPLETE SEISMIC RESTRAINT SYSTEM FOR ALL MECHANICAL SYSTEMS AS PER ONTARIO BUILDING CODE LATEST EDITION & NFPA13.
 - SEISMIC RESTRAINT DESIGN AND SUPERVISION SHALL BE CONDUCTED AND STAMPED BY A PROFESSIONAL SEISMIC ENGINEER. SUBMIT LETTER AND CALCULATION FOR ENGINEER'S REVIEW PRIOR TO SUBSTANTIAL COMPLETION.
 - THE FINAL CERTIFICATION LETTER SHALL BE FORMATTED TO IDENTIFY THE FOLLOWING WITHIN THE BODY OF THE LETTER:
 - THE DATE OF THE FINAL INSPECTION
 - A STATEMENT THAT LISTS ALL CONTRACT DOCUMENTS WHICH WERE REVIEWED INCLUDING BUT NOT LIMITED TO THE MECHANICAL DRAWINGS, PROJECT CHANGE ORDERS, SITE INSTRUCTIONS, ETC.
 - A STATEMENT WHICH CLEARLY IDENTIFIES ANY EXCLUSIONS OF SCOPE OF SERVICE, AND
 - A STATEMENT THAT CERTIFIES THE COMPLETE MECHANICAL SEISMIC INSTALLATION MEETS THE LATEST VERSION OF OBC & APPLICABLE CODES & STANDARDS.

- FIRE EXTINGUISHERS:**
 - (FE1) STORED PRESSURE DRY CHEMICAL TYPE WITH HEAVY DUTY STEEL CYLINDER, POSITIVE ON/OFF OPERATION, WATERPROOF STAINLESS STEEL GAUGE, SHUT-OFF NOZZLE, ULC LABELLED FOR A, B AND C CLASS PROTECTION C/W WALL MOUNTING BRACKET. SIZE 4.5 KG, 6A-80BC RATING. ACCEPTABLE MATERIAL: NATIONAL FIRE, CANADIAN FIRE EQUIPMENT OR EQUAL.
- EXHAUST FANS:**
 - GENERAL:
 - STANDARD OF RATING:
 - AMCA 201 FOR FAN APPLICATION.
 - AMCA 302 FOR APPLICATION OF SOME LOUDNESS RATINGS FOR NON-DUCTED AIR MOVING DEVICES.
 - AMCA 303 FOR APPLICATION OF SOUND POWER RATINGS FOR DUCTED AIR MOVING DEVICES.
 - PERFORMANCE: TO ANSI/AMCA 210 AND ANSI/ASHRAE 51.
 - ANGLE MOUNTING BRACKETS CAN BE ADJUSTED TO ANY TYPICAL CEILING MATERIAL THICKNESS.
 - ALL DIRECT DRIVE FANS SHALL BE SUPPLIED WITH VARIABLE SPEED CONTROLLER FOR INSTALLATION AND WIRING BY DIV. 26.
 - PERFORMANCE: AS INDICATED ON DRAWING SCHEDULE.
 - ACCEPTABLE MATERIAL: GREENHECK, PENN. LOREN COOK, TWIN CITY FAN.
 - UPBLAST WALL EXHAUSTER:
 - SPIN ALUMINUM EXHAUST FANS SHALL BE BELT DRIVE OR DIRECT TYPE AS PER EQUIPMENT SCHEDULE. THE FAN WHEEL SHALL BE CENTRIFUGAL BACKWARD INCLINED, CONSTRUCTED OF ALUMINUM AND SHALL INCLUDE A WHEEL CONE CAREFULLY MATCHED TO THE INLET CONE FOR PRECISE RUNNING. TOLERANCES: WHEELS SHALL BE STATICALLY AND DYNAMICALLY BALANCED. THE FAN HOUSING SHALL BE CONSTRUCTED OF HEAVY GAUGE ALUMINUM WITH A RIGID INTERNAL SUPPORT STRUCTURE AND A BROSSCREEN.
 - MOTORS AND DRIVES SHALL BE MOUNTED ON VIBRATION ISOLATORS, OUT OF THE AIRSTREAM.
 - A DISCONNECT SWITCH SHALL BE FACTORY INSTALLED AND WIRED FROM THE FAN MOTOR TO A JUNCTION BOX INSTALLED WITHIN THE MOTOR COMPARTMENT.
 - ALL FANS SHALL COME WITH PREFABRICATED, INSULATED, 600MM HIGH, SEISMICALLY RESTRAINED ROOF CURB AND BACKDRAFT DAMPER.
 - ALL FANS SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE.
 - ACCEPTABLE MATERIAL: GREENHECK, PENN. LOREN COOK, TWIN CITY FAN.

- LOUVRES:**
 - TYPE L-1: LOUVRE SHALL BE 6 INCHES DEEP. BLADES SHALL BE 2mm (0.081"), FRAME SHALL BE 2mm (0.081") EXTRUDED ALUMINUM, ALLOY 6063-T5. LOUVERS SHALL HAVE A 19 GAUGE GALVANIZED 13mm X 13mm (1/2" X 1/2") BROSSCREEN. ALL MATERIALS SHALL BE FACTORY FINISHED AFTER ASSEMBLY WITH POLYESTER BAKED ENAMEL COLOUR TO MATCH EXTERIOR WALL. PROVIDE MANUFACTURER'S COLOUR CHART FOR SELECTION WITH SHOP DRAWING SUBMITTAL. COLOUR TO BE APPROVED BY BASE BUILDING ARCHITECT. ACCEPTABLE MATERIAL: EH PRICE, TAMCO, VENTEX OR EQUAL.
 - LOUVRE PROTECTIVE COATING:
 - LIQUID FLUOROPOLYMER ALUMINUM EXTRUSION COATINGS, AMA 2805; MINIMUM 70% PVDF RESIN, BY WEIGHT, IN COLOR COAT AND CLEAR TOPCOAT.
 - PRODUCT: PPG DURANAR XL, DURANAR GR; DRY FILM THICKNESS, ASTM D 7091: 0.20 MIL PRIMER COAT PLUS, 1.0 MIL COLOR COAT AND 0.4 MIL CLEAR TOPCOAT OR DURANAR OR CLEAR TOPCOAT, 1.6 MIL TOTAL MINIMUM THICKNESS [THREE-COAT SYSTEM]
 - SEACOAST AND SEVERE ENVIRONMENTS:
 - PRETREATMENT: A CHROMIUM CHROMATE OR CHROMIUM PHOSPHATE COATING WEIGHT RANGE IS REQUIRED TO BE GREATER THAN 40 MG/FT2 AS MEASURED BY X-RAY FLUORESCENCE (XRF) PER ASTM D5723-95
 - PRIMER: LIQUID CHROMATE PRIMER UNDER LIQUID AND POWDER TOPCOATS OR POWDER PRIMER UNDER POWDER TOPCOATS.
 - CLEAR COAT: OPTIONAL PROTECTION, EXCEPT FOR METALLIC FLAKE OR AS ANOTHER BARRIER COAT THAT CAN EASILY BE RINSED WITH FRESH WATER TO ELIMINATE SALT RESIDUE OR USED TO IMPROVE CHALK AND FADE RESISTANCE

- HAZARDOUS GAS MONITORING:**
 - GENERAL:
 - ACCEPTABLE MATERIAL:
 - FIXED GAS DETECTION: AMC-1BVC STANDALONE MONITOR OR APPROVED EQUAL.
 - REMOTE ALARM MODULES: AMC-RAM-3 REMOTE AUDIO/VISUAL ALARM, OR APPROVED EQUAL
 - QUALITY ASSURANCE:
 - MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH A MINIMUM FIVE YEARS DOCUMENTED EXPERIENCE.
 - INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH MINIMUM TWO YEARS DOCUMENTED EXPERIENCE WITH PROJECTS OF SIMILAR SCOPE AND COMPLEXITY.
 - SOURCE LIMITATIONS: PROVIDE EACH TYPE OF PRODUCT FROM A SINGLE MANUFACTURING SOURCE TO ENSURE UNIFORMITY.
 - PRE-INSTALLATION CONFERENCE:
 - CONVENE A CONFERENCE APPROXIMATELY TWO WEEKS BEFORE SCHEDULED COMMENCEMENT OF THE WORK. ATTENDEES SHALL INCLUDE ARCHITECT, CONTRACTOR AND TRADES INVOLVED. AGENDA SHALL INCLUDE SCHEDULE, RESPONSIBILITIES, CRITICAL PATH ITEMS AND APPROVALS.
 - DELIVERY, STORAGE, AND HANDLING:
 - STORE AND HANDLE IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
 - PROTECT FROM DAMAGE DUE TO WEATHER, EXCESSIVE TEMPERATURE, AND CONSTRUCTION OPERATIONS.
 - WARRANTY:
 - MANUFACTURER'S STANDARD LIMITED WARRANTY UNLESS INDICATED OTHERWISE.

- PRODUCTS**
 - FIXED GAS DETECTION:
 - BASIS OF DESIGN: MODEL AMC-1BVC STANDALONE MONITORS AS MANUFACTURED BY ARMSTRONG MONITORING OR APPROVED EQUAL.
 - HIGHLY CONFIGURABLE FIXED GAS DETECTOR FOR SINGLE OR DUAL SENSOR APPLICATIONS.
 - CERTIFICATIONS:
 - CSA LISTED FOR CANADA AND USA.
 - COVERAGE AREA: UP TO 7500 SQ. FT. (700 SQ. M.); 50 FT (15M) RADIUS
 - RECOMMENDED MOUNTING HEIGHT: 4-5 FT. (1.2 - 1.5M) A.F.F.
 - GAS OPTIONS:
 - CARBON MONOXIDE (CO) AND NITROGEN DIOXIDE (NO2)
 - AMC-1BVC CARBON MONOXIDE (CO) 0-100 PPM, NITROGEN DIOXIDE (NO2) 0-10 PPM.
 - EXPECTED SENSOR LIFE: UP TO 6 YEARS (CO) OR UP TO 3 YEARS (NO2). END-OF-LIFE NOTIFICATION.
 - SENSOR CALIBRATION: RECOMMENDED RECALIBRATION EVERY 6 MONTHS, OR MORE FREQUENTLY AS REQUIRED.
 - PATENT PENDING ADAPTIONAL™ ALGORITHM ENSURES SAFE, RELIABLE AND RAPID CALIBRATIONS OPTIMIZED FOR THE UNIQUE OPERATING CONDITIONS OF EACH SENSOR.
 - THE INTEGRAL SENSOR MODULE(S) ARE EASILY CHANGED, AND ARE ELIGIBLE FOR THE EZ CAL™ SERVICE PROGRAM, ALLOWING SENSOR MAINTENANCE TO BE A SIMPLE SWAP-OUT
 - INTELLIGENT SENSORS TRANSFER SENSOR INFORMATION TO TRANSMITTER INCLUDING: SENSOR TYPE, MEASUREMENT RANGE, CALIBRATION SPAN VALUES, LAST CALIBRATION DATE, SERIAL NUMBER, SENSOR LIFE AND MANUFACTURE DATE.
 - HOUSING: UV STABILIZED POLYCARBONATE (LXWH): 11.75 X 9.98 X 5.46 INCH (299 X 253 X 139 MM).
 - RATING: UL 94V-0
 - LOOKABLE WITH HINGED DOOR.
 - POWER SUPPLY: 120 VAC, 60 HZ, RATED 53VA.
 - ANALOG OUTPUTS:
 - TWO INDEPENDENT OUTPUTS, CAN BE LINKED TO EITHER GAS CHANNEL.
 - USER-SELECTABLE: 4 TO 20 MA, OR 0 TO 10 VDC
 - RELAYS:
 - TWO DPDT 10A @ 250 VAC RES
 - DISPLAY: OLED DISPLAY (8 LINES X 20 CHARACTERS).
 - DISPLAYS GAS VALUES, UNITS OF MEASUREMENT, SYSTEM CONFIGURATION OPTIONS AND ALARM LEVELS.
 - THREE BUTTON USER INTERFACES TO VIEW OR CHANGE SYSTEM CONFIGURATION PARAMETERS
 - FRONT PANEL INDICATORS: 3 LEDS
 - SENSOR: INDICATES STATUS OF THE SENSOR MODULE OR HIGHEST ERROR LEVEL IF MULTIPLE ERRORS ARE REPORTED.
 - NETWORK: NOT APPLICABLE TO THE 1BVC SERIES. LED WILL DISPLAY FLASHING GREEN.
 - SENSOR MODULE; INDICATES STATUS OF SENSOR ELEMENT OR MODULE.
 - ALARM: BUZZER, 95 DBA AT (100 MM), 3.5 KHZ PIEZOELECTRIC ELEMENT.
 - TEMPERATURE RANGE: -4 TO 104 DEGREES F (-20 TO 40 DEGREES C).
 - HUMIDITY RANGE: 15-90 PERCENT RH NON-CONDENSING.
 - ATMOSPHERIC PRESSURE: 0.9 TO 1.1 ATM.
 - CONNECTING TERMINALS:
 - WIRE RANGE, POWER AND SIGNAL: 22 AWG TO 12 AWG (0.2-2.5 SQ.MM.);
 - WIRE RANGE, GROUND: 22 AWG TO 10 AWG (0.2-4 SQ.MM.)
 - STRIP LENGTH: 0.3 IN. (8 MM)
 - TORQUE: 7 LB-IN. (0.4 NM)
 - RELAY CONNECTIONS: RING TERMINAL FOR #6 STUD
 - WEIGHT: 5.7 LBS. (2.6 KG) MAX.
 - ACCESSORIES:
 - AMC-RAM-1B-WH WIRING INTERFACE FOR RAM-3 AND 1B MONITOR (ORDER ONE FOR EACH RAM3 UP TO MAXIMUM OF 2 PER 1B MONITOR)
- REMOTE ALARM MODULES:**
 - BASIS OF DESIGN: MODEL AMC-RAM-3 REMOTE ALARM MONITOR AS MANUFACTURED BY ARMSTRONG MONITORING.
 - DESIGNED TO OFFER REMOTE AUDIO/VISUAL SIGNALING OF ALARMS, IN CONJUNCTION WITH ANY OF ARMSTRONG MONITORING'S MONITOR SYSTEMS. THE AMC-RAM-3 IS PERFECT FOR MECHANICAL ROOMS, CONFINED SPACES, OR GENERAL REMOTE ALARMING REQUIREMENTS.
 - RECOMMENDED MOUNTING HEIGHT: 4-5 FT. (1.2 - 1.5M) A.F.F.
 - HOUSING: POLYPROPYLENE (LXWH): 11.75 X 9.98 X 5.46 INCH (299 X 253 X 139 MM).
 - DEGREE OF PROTECTION: NEMA 4X
 - POWER SUPPLY: 12-24 VDC, 275MA WITH STROBE AND BUZZER OPERATING.
 - INDICATORS:
 - RED STROBE LIGHT, 90 STROBES/MINUTE
 - BUZZER 85 DBA AT (610 MM), 2.9 KHZ PIEZOELECTRIC ELEMENT.

- AUDIO ALARM ACKNOWLEDGE SWITCH SILENCES ALARM, BUT VISUAL ALARM CONTINUES UNTIL GAS CLEARS
- TEMPERATURE RANGE:
 - OPERATING: MINUS 40 TO 140 DEGREES F (MINUS 40 TO 50 DEGREES C).
 - STORAGE: MINUS 40 TO 167 DEGREES F (MINUS 40 TO 70 DEGREES C).
- HUMIDITY RANGE: 0-99 PERCENT RH NON-CONDENSING.
- ATMOSPHERIC PRESSURE: 0.9 TO 1.1 ATM.
- CONNECTING TERMINALS, POWER:
 - WIRE RANGE: 22 AWG TO 16 AWG (0.2-1.5 SQ.MM.);
 - RING TERMINAL FOR #6 STUD.
 - TORQUE: 7 LB-IN. (0.4 NM)
- CONNECTING TERMINAL, GROUND:
 - WIRE RANGE, GROUND: 14 AWG TO 2 AWG (2.08-33.6 SQ.MM.)
 - STRIP LENGTH: 0.47 IN. (11.9 MM)
 - TORQUE: 12 LB-IN. (1.3 NM)
- WEIGHT: 3.3 LBS. (1.7 KG).

EXECUTION

- EXAMINATION**
 - DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY CONSTRUCTED AND PREPARED.
 - IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT IN WRITING OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.
- PREPARATION**
 - CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
 - PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
- INSTALLATION**
 - INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, APPROVED SUBMITTALS, AND IN PROPER RELATIONSHIP WITH ADJACENT CONSTRUCTION.

TESTING, ADJUSTING AND BALANCING (TAB)

- GENERAL:**
 - TAB MEANS TO TEST, ADJUST AND BALANCE TO PERFORM IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS AND TO DO ALL OTHER WORK AS SPECIFIED IN THIS SECTION.
 - DO TAB TO FOLLOWING TOLERANCES OF DESIGN VALUES:
 - HVAC SYSTEMS: PLUS OR MINUS 5%.
 - HYDRONIC SYSTEMS: PLUS OR MINUS 10%.
 - ADJUST OR REPLACE SHEAVES AS REQUIRED TO MEET DESIGN PERFORMANCE.
 - DO TAB OF COMPLETE MECHANICAL SYSTEMS OVER ENTIRE OPERATING RANGE IN ACCORDANCE WITH MOST STRINGENT CONDITIONS OF AABC (ASSOCIATED AIR BALANCE COUNCIL) & NABC (NATIONAL AIR BALANCE COUNCIL).
 - FOR ALL ADJUSTABLE DIFFUSERS/GRILLES, ADJUST AIR PATTERN TO ENSURE PROPER AIR DISTRIBUTION AND TO AVOID DUMPING. AIR VELOCITY SHALL NOT EXCEED 0.25 M/S (50 FPM) IN THE OCCUPIED ZONE (OR AS DIRECTED BY ENGINEER).
- TAB REPORT:**
 - FORMAT TO BE IN ACCORDANCE WITH ASSOCIATED AIR BALANCING COUNCIL (AABC/CABC).
- SYSTEMS:**
 - AIR SYSTEMS:
 - INCLUDE BOTH SPECIFIED AND MEASURED DATA:
 - MINIMUM & MAXIMUM PRIMARY & SECONDARY AIRFLOWS
 - OPERATING PRESSURES
 - DUCT SIZE & TRANSVERSE READINGS
 - MOTOR VOLTS, AMPS & POWER
- VERIFICATION:**
 - ALL REPORTED RESULTS SUBJECT TO VERIFICATION BY ENGINEER.
 - PROVIDE MANPOWER AND INSTRUMENTATION TO VERIFY UP TO 30% OF ALL REPORTED RESULTS.
 - NUMBER AND LOCATION OF VERIFIED RESULTS TO BE AT DISCRETION OF ENGINEER.
 - BEAR COSTS TO REPEAT TAB AS REQUIRED TO SATISFACTION OF ENGINEER.
 - PRODUCE "AS-BUILT" FULL SYSTEM SCHEMATICS. USE AS-BUILT DRAWINGS FOR REFERENCE.
 - TAB TO BE CONSIDERED COMPLETE ONLY WHEN FINAL TAB REPORT RECEIVED AND APPROVED BY ENGINEER.

LOUVRE SCHEDULE

TAG	LOCATION	FUNCTION	AIR FLOW (L/s)	SIZE (mm)	FREE AREA (sq)	MAXIMUM PRESSURE DROP (Pa)	BASIS OF DESIGN	REMARKS
L1	AREA WALL	INTAKE	2053	1200x1200	53	9.5	EH PRICE DE 635	C/W STAINLESS STEEL BIRD SCREEN & DURANAR XL FLUOROPOLYMER EXTRUSION COATING
L2	AREA WALL	INTAKE	2053	1200x1200	53	9.5	EH PRICE DE 635	C/W STAINLESS STEEL BIRD SCREEN & DURANAR XL FLUOROPOLYMER EXTRUSION COATING

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.

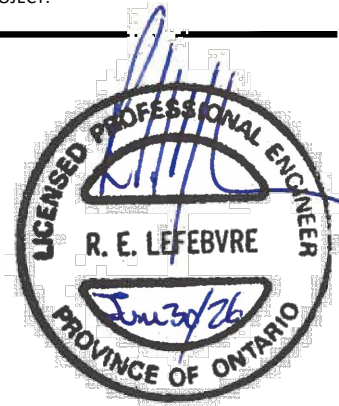
FAN SCHEDULE

TAG	LOCATION	FUNCTION	FAN DATA				ELECTRICAL DATA		BASIS OF DESIGN	REMARKS
			TYPE	DRIVE (BELT/DIRECT)	AIR FLOW (L/s)	ESP (Pa)	FAN SPEED (RPM)	SONES	MOTOR SIZE (HP)	V/PH/Hz
EF1	WALL	STORAGE EXHAUST	UPBLAST CENTRIFUGAL	BELT	2124	124.5	1308	20	1.5	240/1/60
EF2	WALL	STORAGE EXHAUST	UPBLAST CENTRIFUGAL	BELT	2124	124.5	1308	20	1.5	240/1/60

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.
2. DISCONNECT SWITCH BY DIV. 26
3. SPEED SWITCHES SHALL BE SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.

20200630	1	ISSUED FOR TENDER
DATE	No	REVISION

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CLIENT:

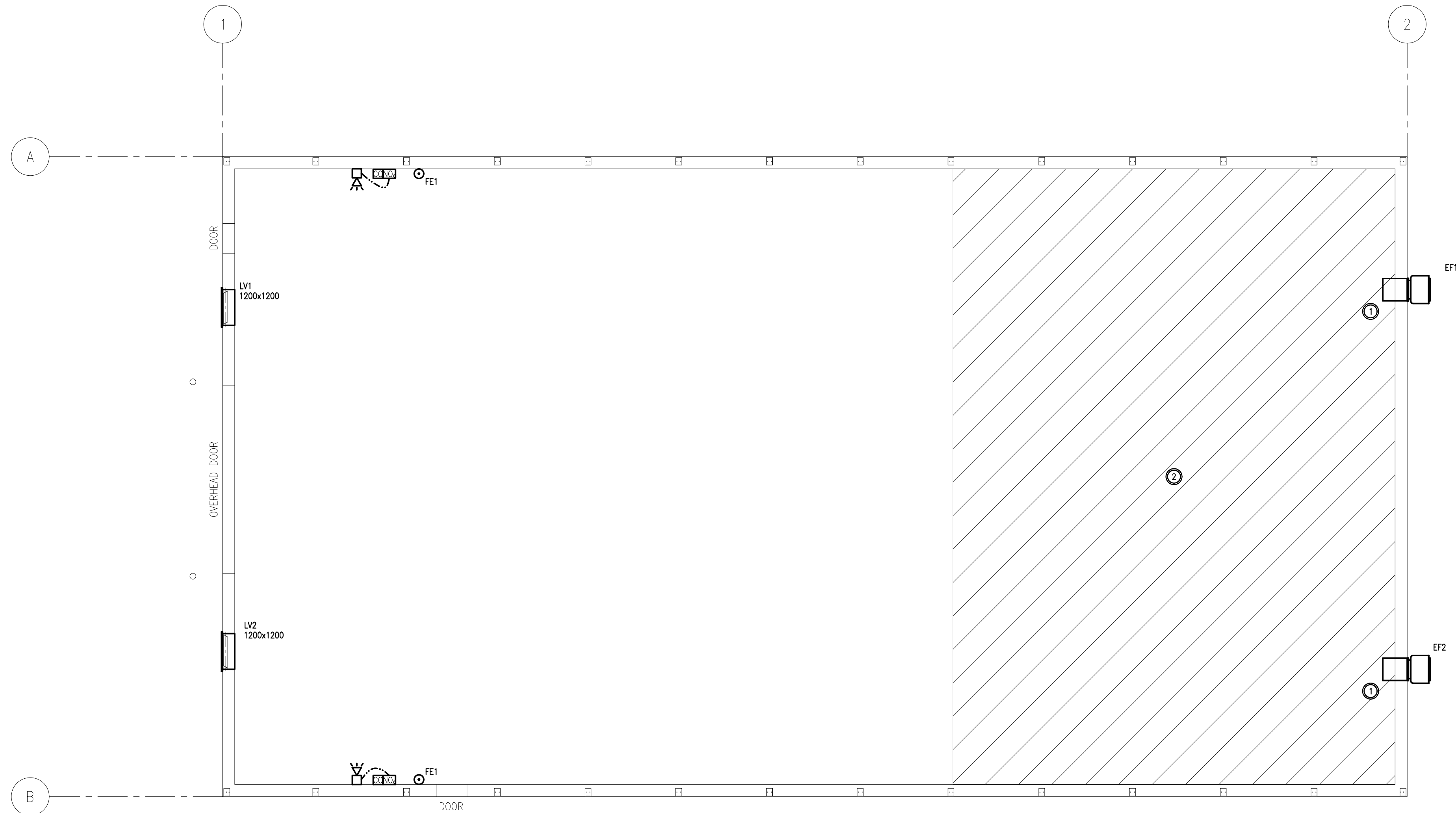


PROJECT:

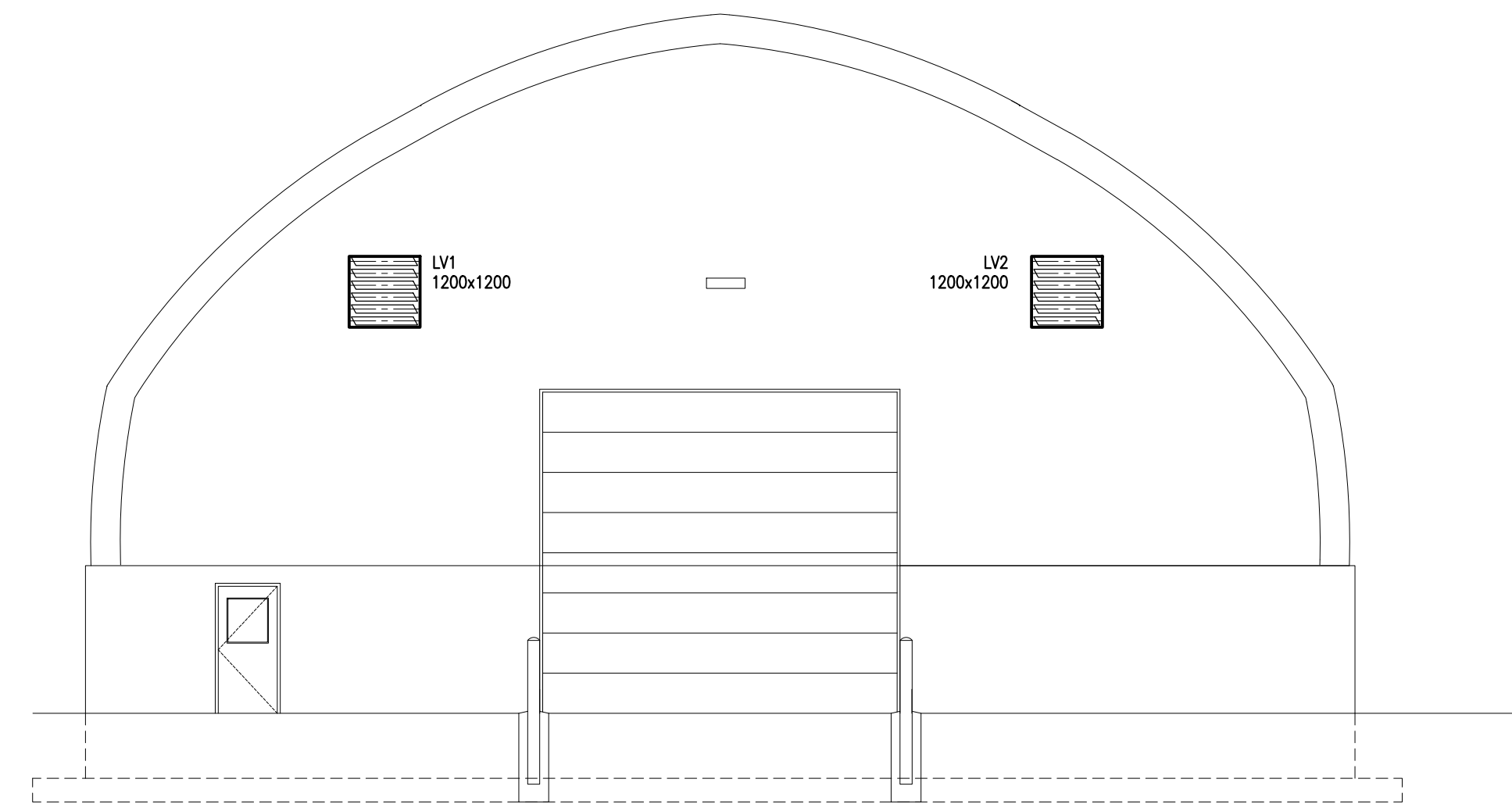
CORNWALL ISLAND
SALT STORAGE FACILITY

TITLE:
MECHANICAL DRAWING LIST,
LEGENDS, SCHEDULES &
SPECIFICATIONS

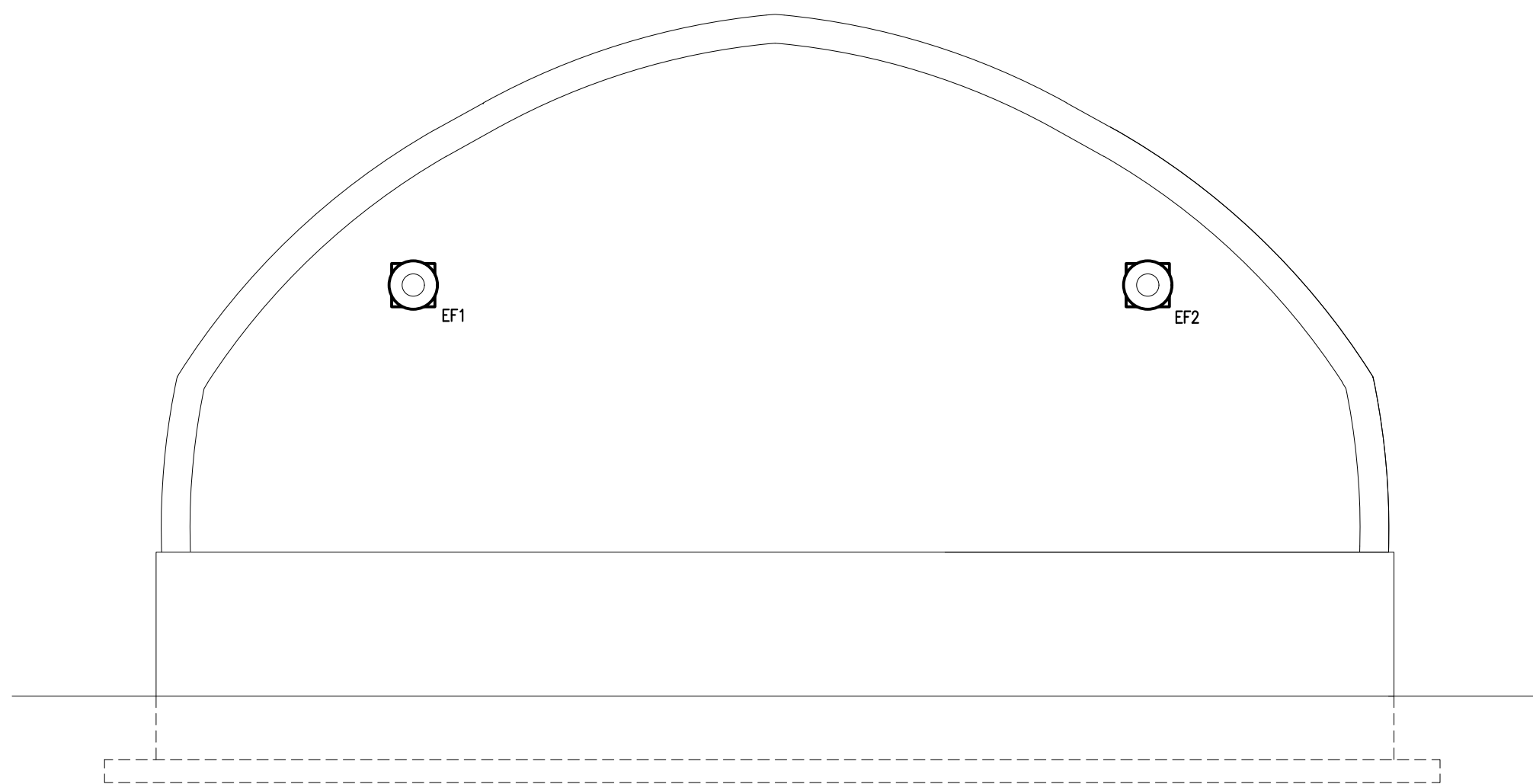
SCALE: AS NOTED	JOB NO: 22226
DESIGNED BY: D.NEWTON	DATE: 2023/05/05
DRAWN BY: D.NEWTON	DRAWING NO.
CHECKED BY: R.LEFEBVRE	M0.1



1
M1.1 1:100
MECHANICAL FLOOR PLAN



2
M1.1 1:100
WEST ELEVATION



3
M1.1 1:100
EAST ELEVATION

DESCRIPTION OF WORK

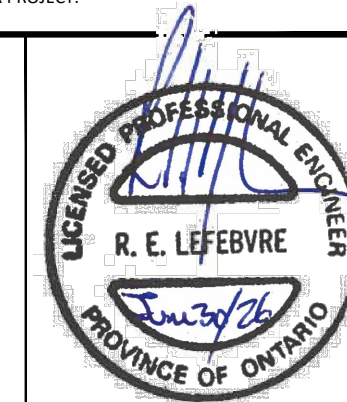
1. PROVIDE EXHAUST FANS (EF1 & EF2) ON BUILDING EAST ELEVATION WHERE INDICATED. FAN OPERATION TO BE LINKED TO OCCUPANCY SENSOR & CONTINUOUS FOR 15 MIN (ADJUSTABLE) AFTER OCCUPANCY. REFERENCE ELECTRICAL DRAWINGS FOR MORE DETAILS. HAZARDOUS GAS MONITORING PANEL TO ACTIVATE EXHAUST FANS ON CO/NOX HIGH LEVEL. REFER TO SCHEDULE & SPECIFICATION FOR EXHAUST FAN DETAILS.
2. PROVIDE INTAKE LOUVERS (LV1 & LV2) ON BUILDING WEST ELEVATION WHERE INDICATED C/W BIRD SCREEN. REFER TO SCHEDULE & SPECIFICATION FOR DETAIL.
3. PROVIDE CO/NOX SENSORS CONNECTED TO ALARM / STROBE ADJACENT ON WALL. ALARM / STROBE TO BE ACTIVATED ON HIGH CO/NOX CONCENTRATION. .
4. PROVIDE WALL HUNG FIRE EXTINGUISHER WHERE INDICATED. REFER TO SPECIFICATION FOR DETAILS.

DRAWING NOTES

- ① CONTINUE EXHAUST FAN DUCTWORK INTO SPACE AND TERMINATE C/W BIRD SCREEN.
- ② SPACE AT REAR OF SALT STORAGE FACILITY HAS BEEN DETERMINED TO BE NON-OCCUPIED DUE TO SALT PILES. NO FIRE EXTINGUISHERS ARE LOCATED IN THIS AREA DUE TO THE INACCESSIBLE NATURE.

DATE	No.	REVISION
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CLIENT:
PROJECT:
CORNWALL ISLAND
SALT STORAGE FACILITY

TITLE:
MECHANICAL PLANS
& ELEVATIONS

SCALE: AS NOTED	JOB NO: 22226
DESIGNED BY: D. NEWTON	DATE: 2023/05/05
DRAWN BY: Z. ABDESSAMI	DRAWING NO. M1.1
CHECKED BY: R. LEFEBVRE	