

Date: January 24, 2025

(58 pages)

## ADDENDUM NO. 2

Request for Proposal Call No. RFP2024-418  
**CONSTRUCTION OF THE FIELD HOCKEY & MULTISPORT TRAINING DOME,  
COMFORT STATION AT THE CASSIE CAMPBELL COMMUNITY CENTRE**

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This Addendum forms part of the Bid/Proposal Document.

1. **Bid Closing:**

The Closing date has been extended from NOT LATER THAN 2:00:00 pm LOCAL TIME on TUESDAY January 28, 2025, TO:

**NOT LATER THAN 2:00:00 0'CLOCK P.M. LOCAL TIME ON TUESDAY  
FEBRUARY 4, 2025.**

2. **PERTAINING TO PART A INFORMATION FOR BIDDERS**

**Special Provisions to Instructions to Bidders**

**DELETE: SP4. Request for alternates will not be considered during the bidding process.**

**REPLACE WITH. Submit alternates for consideration prior to the end of the question period.**

3. **PERTAINING TO THE DRAWINGS**

**Delete:**

**Drawing EX-1.0 by Landscape Planning Limited, dated December 6, 2024.**

**Replace with:**

**Addendum No. 2 Drawing EX-1.0 by Landscape Planning Limited, dated January 16, 2025.**

**Delete:**

**Drawing L-1.0 by Landscape Planning Limited, dated December 6, 2024.**

**Replace with:**

**Addendum No. 2 Drawing L-1.0 by Landscape Planning Limited, dated January 16, 2025.**

**Add:**

**Addendum No. 2 Drawing L-1.1 by Landscape Planning Limited, dated January 16, 2025.**

**Delete:**

**Drawing D-1.0 by Landscape Planning Limited, dated December 6, 2024.**

**Replace with:**

**Addendum No. 2 Drawing D-1.0 by Landscape Planning Limited, dated January 16, 2025.**

**Delete:**

**Drawings AS1 to AS20 by The Farley Group, dated October 29, 2024.**

**Replace with:**

**Addendum No. 2 Drawing C-1 by The Farley Group, dated January 14, 2025.**

**Addendum No. 2 Drawings AS1 to AS20 by The Farley Group, dated January 14, 2025.**

**Delete:**

**Drawings E-1 to E-4 by MJS Consultants Inc, dated December 6, 2024.**

**Replace with:**

**Addendum No. 2 Drawings E-1 to E-4 by MJS Consultants Inc, dated January 7, 2025.**

**(Total Sheets of Drawings: 29)**

**4. PERTAINING TO SPECIFICATIONS**

**Delete:**

**Electrical Specifications – Pages 1 to 10 of Section 16010: Lighting Systems and Schedules by MJS Consultants Inc., dated November 2024.**

**Replace with:**

**Addendum No. 2 Electrical Specifications – Pages 1 to 12 of Section 16010: Lighting Systems and Schedules by MJS Consultants Inc., dated January, 2025.**

**5. PERTAINING TO SCHEDULE OF PRICES**

### **SECTION C**

- **Item No. 2 description has been amended to read “Supply & Install Storm Water System & Appurtenances (inc. Sewer Pipes, Catch Basins, Catch Basin Manholes, Holding Tanks, Sump Pumps and Discharge, etc.) - Complete; in accordance with drawings, details and specifications by Valdor Engineering.”**
- **Item No. 5 description has been amended to read “Supply & Install Mechanical Systems (Gas Service) - Complete; in accordance with drawings, details and specifications by Goodkey, Weedmark & Associates Ltd. inc. 30m of Open Trench Excavation Restoration (Asphalt).”**

### **SECTION F**

Item No. 2 description has been amended to read “Supply & Install Concrete Grade Beam; **(including Granular Base)**; in accordance with drawings, details and specifications by the Farley Group.

### **SECTION H**

- **Item No. 5 description has been amended to read “Supply & Install Pavement, Cross Walk, and Parking Stall Line Painting; in accordance with drawings, details and specifications.”**
- **Quantity for Item No. 3 has been decreased from 2,470 to 2,250**
- **Quantity for Item No. 4 has been decreased from 4,520 to 4,500**
- **Quantity for Item No. 7 has been decreased from 325 to 165**

### **SECTION J**

Item No. 9 description has been amended to read “Supply & Install Rekortan M Synthetic Running Track by Centaur Products Inc. (including 100 mm Elastic and line Markings) Or approved equivalent.

Section Cash Allowance.

Delete Item No. 4 and corresponding value and refer to Section J Item No 9.

Delete Item No. 11 and corresponding value and refer to Section J Item No. 5

Delete Item No. 12 and corresponding value and refer to Section J Item No. 6.

**Above changes have been made on the Online Bidding System.**

### **6. Questions and Answers:**

**Q1: Section A – Item 3, please confirm which detail to follow. 1- D1.0 or Civil Drawing ESC-1 Brampton Standard Detail drawing 464?**

**A1: Proceed with Civil Drawing ESC-1 Brampton Standard Detail drawing 464.**

**Q2: Section A – Item 4, please provide detail for this item.**

A2: Refer to Appendix C – Tree Inventory & Arborist Report.

**Q3: Please Confirm the Owner will apply and pay for Permit such as: Site Servicing, Road Occupancy, Service Connection (Watermain and Sanitary) Fee with the Region or the City, and the Building Permit for the Pavilion Building.**

A3: The City will pay for fees associated with obtaining the Region of Peel approvals and for the Building Permits. The General Contractor is responsible for providing the necessary information to obtain; obtain and pay for all Permits and Service Connections associated with all Authorities having Jurisdiction.

**Q4: We don't see tender item for the removal and disposal and replacement of existing Heavy Duty asphalt driveway off Chinguacousy Rd.**

A4: The existing Heavy Duty Asphalt driveway off Chinguacousy Road is to be preserved and protected. Refer to revised drawing EX-1.0: Existing Conditions/Site Preparation Plan.

**Q5: Please confirm construction access to the site is from Chinguacousy Rd. Is this site entrance also shared with the Public?**

A5: Confirmed. Access on this road will be shared with the Public. Staging of materials and equipment must remain within limit of the construction hoarding fence.

**Q6: For Bidding purposes, can the contractor assume the excess Topsoil to be exported offsite meets MOE Table 1 guidelines?**

A6: Refer to Addendum #1, response #17.

**Q7: Please confirm Access MH4-7 to be cast on top of the box culvert**

A7: Maintenance access MH4-7 are precast concrete risers on top of the box culvert. Refer to attached detail titled, Response to question 7. ***(Total sheet of Drawing 1)***

**Q8: Please provide insulation detail for the concrete box culvert storage tanks**

A8: Refer to attached concrete box culvert insulation detail titled, Response to question 8. ***(Total sheet of Drawing 1)***



**Q9: Is there a detail to show connection from Sump Pump to Forcemain to PVC Storm pipe?**

A9: The connection is to be made using a Fernco Flexible Coupling.

**Q10: Prop MH1 1800mm. Assuming there is an existing MH to be removed there**

A10: The 1800mm diameter MH1 is a proposed manhole; there is no existing manhole at this location.

**Q11: Please confirm if there are adequate staging area at the Road ROW to stage for Jack and Bore machine to install the WM.**

A11: Contractor is responsible for investigating staging area requirements and obtaining a Road Occupancy Permit to safely facilitate required site servicing works.

**Q12: Cross sectional detail Prop Water Service connection Detail -2 Civil drawings show only two storm pipe crossing. Please confirm if there are any other utilities or pipes to cross**

A12: Existing utilities are to be confirmed by contractor through utility locates.

**Q13: Section C item 5 drawings by GWAL do not show any details of sump pumps.**

A13: Refer to revised bid form Section C – Line Item #2 and Section C – Line Item #5. Refer to drawing no. SS-1: Site Servicing Plan.

**Q14: Please confirm the owner will APPLY and PAY for all fees to Gas Supplier that is associated with the new Gas Lines connection. At the bidding stage, the contractor cannot factor the Fees from Gas Supplier (Enbridge) without the proper application.**

A14: The Mechanical Consultant is responsible for the application of the new gas line connection. The Owner will pay for all fees associated with the application. Contractor is responsible for coordinating the required inspections by the gas supplier (Enbridge).

**Q15: Please confirm where to install Gas Supervisory switches.**

A15: Supervisory switches are to be installed upstream of any life safety equipment. Refer to Detail 1 – M1 for schematic.

**Q16: Please confirm the existing Gas Line after the meter connection can support the 4.565m BTU/H gas loading.**

A16: Enbridge to confirm. Existing gas meter is assumed to remain.

**Q17: Field House drawing M1 shows two Storm Sump Pumps. Civil drawings do not show any leads to connect the 2 & 3" discharge pipes. Please provide drawings.**

A17: Storm Sump Pumps are not required in the Field House.

**Q18: Please confirm if the City Operations will supply the 38mm Water Meter.**

A18: No. The General Contractor is to supply & install the water meter.

**Q19: Burnside Drawing AS3- Is there a step detail for the concrete footing showing the transition from 112" to 64" depth?**

A19: Refer to attached detail titled, Response to Question 19 Drawing AS – 3.  
(Total sheet of Drawing 1)

**Q20: Can a structural cross sectional detail drawing be provided to show the door sill a grade beam?**

A20: Refer to updated drawings by The Farley Group in this Addendum for door sill at grade beam detail.

**Q21: Section F item 8. Please provide make and model of the Auto Garage Door Opener. Assuming Two each. Electrical drawings just state to provide cables only.**

A21: Auto Garage Door Opener to be *MT Medium-Duty Logic Trolley Operator* by LiftMaster or *MJ Medium-Duty Logic Jackshaft Operator* by LiftMaster, or approved equivalent.

**Q22: We are not sure of the limits of asphalt and concrete paving below the artificial turfs. Can a detailed drawing be provided? We also noticed player benches are anchored to concrete pad. Can concrete pad limits be shown on plan view drawings?**

A22: Refer to new drawing L-1.1: Artificial Turf Base Paving Plan.

**Q23: What is the pavement profile for the batting tunnel? We see asphalt and concrete in Detail 2 - D3.0. Tender Quantities don't seem to line up with plan view drawings.**

A23: Refer to answer #22 in this addendum. Refer to Detail 2 – D3.0.

**Q24: Detail 2, D3.0 shows BCM turf adjacent to the grade beam. We don't see BCM turf adjacent to the GB in drawing L-1.0. Please clarify the detail and plan view drawing.**

A24: Refer to revised drawing L-1.0: Landscape/Surface Materials Plan.

**Q25: Is there a detailed drawing for the Triple Jump Take off boards recessed in the concrete paving?**

A25: Triple Jump Take off Boards to be *LTJTOB12 12" Long/Triple Jump Polyboard Take-Off Board System with Replacement Blanking Lid* by Sportsfield Specialties or approved equivalent. Refer to manufacturer specifications.

**Q26: Assuming the finish grade for the Tension Batting Tunnel is DCM turf?**

A26: Confirmed – BCM Turf.

**Q27: Section H – item 8, confirm the owner will apply, pay and obtain Retaining Wall Building Permit.**

A27: Confirmed. The City has already obtained the Retaining Wall Building Permit.

**Q28: Section H – item 8, Drawing L-1.0 reads "Precast modular wall with 1.2m h.t. BVCL Fence. Drawing D-2.0 reads. Pedestrian Handrail or CLF. Please clarify if BVCLF or Ped Handrail is required above the wall.**

A28: Proceed with 1.2m Black Vinyl Chain Link Fence per Detail 1 – D-2.0.

**Q29: Requesting you to please extend the closing date for this tender.**

A29: Refer to Addendum # 1, response # 12

**Q30: Can an extension be granted on the question deadline and closing date?**

A30: Refer to Addendum # 1, response # 12

**Q31: Please confirm the standard and heavy-duty concrete paving (10&11/D-1.0) is a broom finish and not sandblasted.**

A31: Refer to notes in Detail 10 and 11 – D-1.0.

**Q32: Please confirm if the Long Jump Sand Pit concrete curbs to be constructed as a 130mm concrete slab with a monolithic edge as per**

**4/D-3.0 or is it a separate type of curb. If a separate type of curb is needed, please attach detail.**

A32: Confirmed.

**Q33: Would you please provide tender closing extension to provide you more competitive price on this project?**

A33: Refer to Addendum #1, response #12.

**Q34: We have been invited for this tender but we do not have Air Supported Structure work experience. Generally, air Supported structure work is specialized work completed by skilled subcontractors/suppliers. Can we use our subs references for Air Supported Structure as required references for this tender or not? Please advise us.**

A34: Refer to Addendum #1, response #12.

**Q35: It appears that City wants this project substantially completed by Nov 15, 2025. Would you please confirm that does City has Site Servicing Permit, Building Permit and Forestry Permit if required in hand at the moment or not? If not, please confirm who will be responsible for getting these permits?**

A35: Refer to Addendum #1, response #16.

**Q36: It appears that Toluene is exceeding limit at Borehole BH101 & BH201 as per provided Chemical Report. Thus, should we consider entire site contaminated or not? If not, please advise should we dispose surplus earth as non-contaminated or not if required?**

A36: Refer to Addendum #1, response #17.

**Q37: As per Section H line item#4, where do we require Acrylic Paving in this project? There is no Sports Court. Is there any Acrylic Paving in base scope of work or not? If yes, please provide detail, specs & quantity for Acrylic Pavement.**

A37: No Acrylic Paving is included in this project. This line item refers to acrylic painting (new parking stall line painting). Refer to revised bid form Section H – Line Item #5.

**Q38: Can you kindly extend the submission by another 2 weeks please so we can submit a competitive pricing? Thanks so much.**

A38: Refer to Addendum # 1, response # 12

**Q39: Please confirm the WM connection Tapping will be done the Region.**

A39: Region of Peel staff are to complete the live tap for the water service connection. The Contractor is responsible for coordination with the Region.

**Q40: Could you clarify artificial turf base ( 9,715 M2 ) how much is Type “A” and how much is Type “B” ?**

A40: Refer to Addendum No. 1, Section 2.

**Q41: Can We please get more detail on the sliders Exterior and interior Entrance. Elevation and door type only showing 2 sliding panels. Is this to be a bi-part? As the elevation beside sliding panels have full length glass panels, not showing a Bi-part. Would also need to know if any security is tied into these sliders. What are the measurements for the sliders with sidelites required?**

A41: Bi-part door with transom to be Dura-Glide 2000 Bi-Parting door with transom as manufactured by Stanely access technologies or approved equal. Please see updated door & window schedules. Exterior door to be tied to the city security through a fob system.

**Q42: Section F Item#8 refers supply & install Automatic Garage Door Opener for Air Supported Structure. But, there is no much information provided about Automatic Garage Door Opener on Air Supported Structure shop drawings prepared by Farley Group. Does it require Overhead Door or only Automatic Garage Door Opener? If Automatic Garage Door Opener, we request you to please provide full information about Automatic Garage Door Opener (i.e. model number, manufactures and specifications etc.) with purpose of use at Air Supported Structure.**

A42: Refer to Response #21 in this Addendum.

**Q43: Re: Washroom Accessories 10200(2.3) 1) Elevation 3/A6.03 for washrooms show a Paper Towel Dispenser/ Disposal but no specification. Please provide specification of they are part of tender. 2) Soap Dispensers are specified but not shown, please advise.**

A43: Paper Towel Dispensers/Disposal will be supplied & installed by the City of Brampton upon completion of the contract.

For soap dispensers, please see updated elevations.

**Q44: Please confirm the depth of Topsoil required for all landscape areas.**

**FOT Section B, Item 4 states (Min. 1500mm depth) but Specification 02911, item 3.1.2 calls for min 300mm depth.**

A44: Topsoil depth to be 150mm minimum in accordance with City of Brampton specifications.

**Q45: Would the city accept a Retain-a-Rock retaining wall alternative to the specified SienaStone Retaining Wall?**

A45: Refer to Addendum No. 1, Response #9.

**Q46: We request three weeks extension to closing.**

A46: Refer to Addendum # 1, response # 12

**Q47: Is any of the glass for this project requiring Window film i.e. frosting?**

A47: Yes. Windows W1 & W2 are frosted. Glazing in other areas is semi-transparent. Please see updated window schedules.

**Q48: Is there any building automation controls required? Please confirm.**

A48: Refer to Form of Tender – Cash Allowance: Line Item #7.

**Q49: Please provide the tree protection details.**

A49: Refer to Response #2 in this Addendum.

**Q50: There is no provision in section H for the tree removal as shown in the report.**

A50: Refer to Form of Tender – Section A: Line Item #15.

**Q51: As there is no provision for the irrigation system, how many times do we account to water new plants?**

A51: Refer to Landscape Specifications – Section 02906, 3.11.

**Q52: The quantities for Section F, Item 2 and 4 in Revised Form of Tender are not correct. Alternately the quantities can be changed to Lump Sum to avoid confusion**

A52: Refer to revised Form of Tender – Section F as attached to Addendum No. 1.

**Q53: S/I of Concrete Vault is repeated twice. Section F, Item 1 and 4.**

A53: Refer to Form of Tender – Section F: Line Item #3 for Concrete Vault.

**Q54: Do we have to include for AV(Audio/video) OR is that also part of cash allowance? Please confirm at earliest.**

A54: Refer to Form of Tender – Cash Allowance: Line Item #8.

**Q55: In the details, it calls for 1 7/8" bottom rail. There is no boulevard clamps that are made for 1 7/8" bottom rail. Is it acceptable to change it to 1 5/8" for the bottom rail? Also with the gates, on the detail is calls for the gate frame to be made out of 1 7/8" but that is never a thing, can that be changed to 1 5/8" as well?**

A55: Chain Link Fence to be constructed as per Detail 2/D-2.0 in accordance with City of Brampton standards.

**Q56: For the 4' chain link fence that gets mounted on the retaining wall, on the layout is says it is black vinyl chain link fence, but in the detail it has it as galvanized. Can you confirm whether it is black vinyl or galvanized?**

A56: The 4' (1.2m) Chain Link Fence on the retaining wall is to be black vinyl.

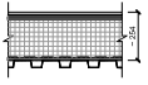
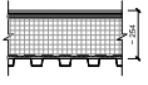
**Q57: Roofs (Types R1 & R2): There appears to be a discrepancy between the roof assembly and the specifications in terms of layers. Could you please confirm the following details:**

- a. **Are thermal clips used for these roofs, or are 2" Z-girts the only components used as the sub-girt system?**
  - b. **What type of insulation, as referenced in specification 07210, is to be used for the roof?**
  - c. **Is an air/vapor barrier required beneath the insulation?**
  - d. **Are 1/2" fiberboards required beneath the underlayment? If yes, please provide the relevant specifications for these fiberboards.**
- Walls (Types W1 & W1A)**

- e. **Could you confirm the exact type of insulation, as specified in section 07210, to be used for these walls? Exterior Metal Soffits and Interior Metal Ceilings:**
- f. **Is a sub-girt system required to fix the soffit panels? If yes, please specify the system details.**

A57: See answers below.

- a. Yes, thermal clips are required.
- b. High Density (HD) Extruded Polystyrene Board. Polyisocyanurate Rigid Insulation can also be used as an alternative to reduce thickness.
- c. Yes.
- d. Products like BP ESGARD high density panels or approved equal. Also, insulation with high density cover board suitable for pitched roofs can be used as an alternative.
- e. Medium Density (HD) Extruded Polystyrene Board for walls.

ROOF TYPES					
TAG	FIRE RATING	SOUND RATING	MIN. R-VALUE	CONSTRUCTION PLAN/SECTION	DISCRIPTION
R1	N/A	N/A	R-40 MIN		PITCHED ROOF (INSIDE THE BUILDING) - STANDING SEAM METAL ROOF PANELS ON ROOF UNDERLAYMENT - FELT OR HOUSE WRAP - 12.7 [1/2"] FIBERBOARD - 203 [8"] RIGID INSULATION, R-40 VALUE - AIR/ VAPOUR BARRIER - 12.7 [1/2"] PLYWOOD SHEATHING - ROOF FRAMING PER STRUCTURAL DRAWINGS. - SUB-FRAMING AS REQUIRED - PRE-FINISHED ALUMINUM PANELS
R2	N/A	N/A	N/A		PITCHED ROOF (CANOPY) - STANDING SEAM METAL ROOF PANELS ON ROOF UNDERLAYMENT - FELT OR HOUSE WRAP - 12.7 [1/2"] FIBERBOARD - 203 [8"] RIGID INSULATION - AIR/ VAPOUR BARRIER - 12.7 [1/2"] PLYWOOD SHEATHING - ROOF FRAMING PER STRUCTURAL DRAWINGS. - SUB-FRAMING AS REQUIRED - PRE-FINISHED ALUMINUM PANELS

- f. Roof insulation has been updated to be entirely above deck. No insulation required for metal soffit or ceiling. See updated roof type schedule.

**Q58: We were invited to bid on this project and one of a select few contractors with the required field and dome project experience required under the documents but we do not meet the COR safety requirements. Would being a member of the WSIB Excellence Safety Program be considered to allow for pricing the project.**

A58: Refer to Part A, Special Provision to Instruction to Bidders, SP 2 (page #25 of the RFP document).



Bidders must be COR™ registered or have an equivalent Occupational Health & Safety Management System (OHSMS) certification, as confirmed through the Infrastructure Health & Safety Association (IHSA), to submit a Bid Call and be considered for award of contract.

Failure to comply with this mandatory requirement shall result in disqualification of the Bid.

**Q59: We would request the tender closing period be extended to February 21**

A59: The closing date for the Cassie Campbell Project has been extended to February 4th, 2025.

**Q60: As there are no specs provided, please advise who is responsible for the access controls and security cameras for the building?**

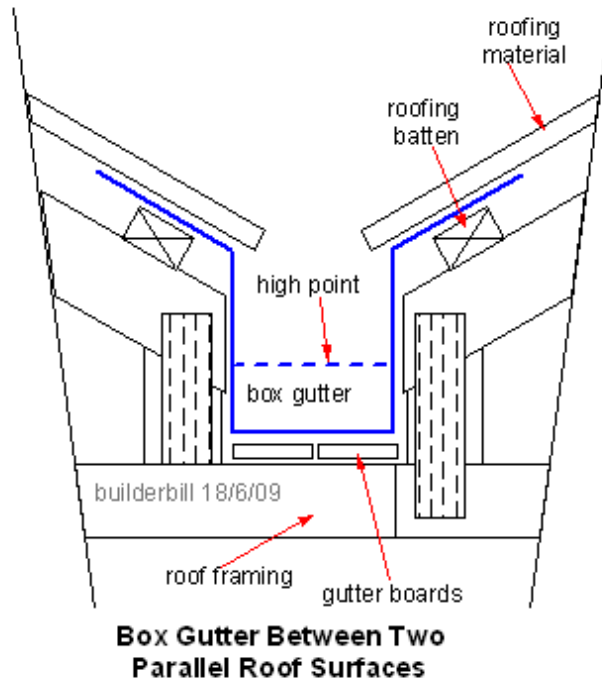
A60: The Contractor is responsible for the Supply & Installation of the access controls and security cameras for the building in accordance with City of Brampton Accessibility Technical Standards.

**Q61: Please can you provide 2 week extension as requested by our sub-contractor.**

A61: Refer to Answer #5 of this Addendum.

**Q62: In the center of the roof where both metal slopes converge to the drains, there is a 'gutter' section with drains and a 1% perpendicular slope to promote drainage. A detail and specification are required to show how this would be accomplished. Typically, there would be an elevation detail which would allow the height of the perpendicular slope to be accommodated and as well a low-slope membrane specification to ensure the gutter area and transition are watertight.**

A62: A box gutter detail will be provided and coordinated with the proposed roof supplier. The detail will be similar to the attached detail.



**Q63: Is the circle with number 12 inside it symbol on the electrical site servicing drawings a 12 inch handwell?**

A63: There are no handwells as part of the electrical scope of this project.

**Q64: We request two week extension for tender closing.**

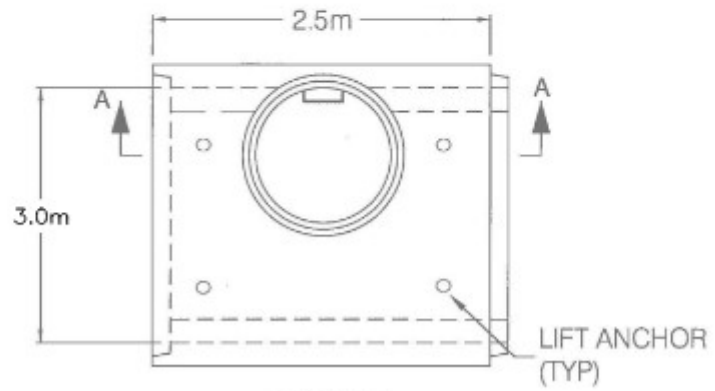
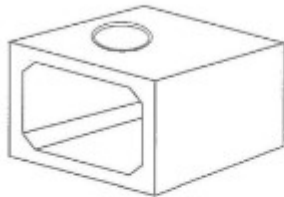
A64: Refer to Answer #5 of this Addendum.

All other terms and conditions remain unchanged.

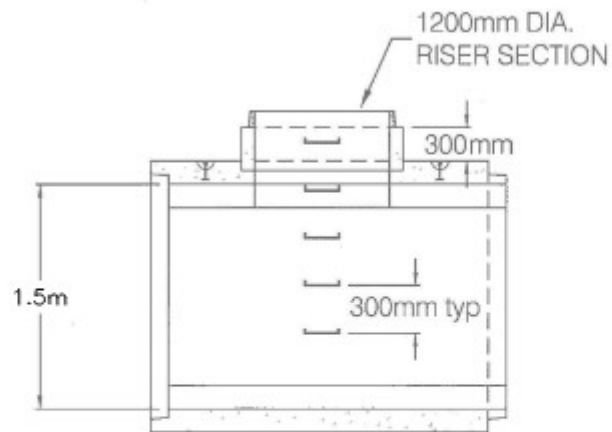
If you have any questions, please do not hesitate to contact the undersigned.

**Bidders are required to acknowledge all Addenda.**

Name: Santosh Mishra  
Title: Senior Buyer  
Ph: (905) 874-3482  
Email: santosh.mishra@brampton.ca

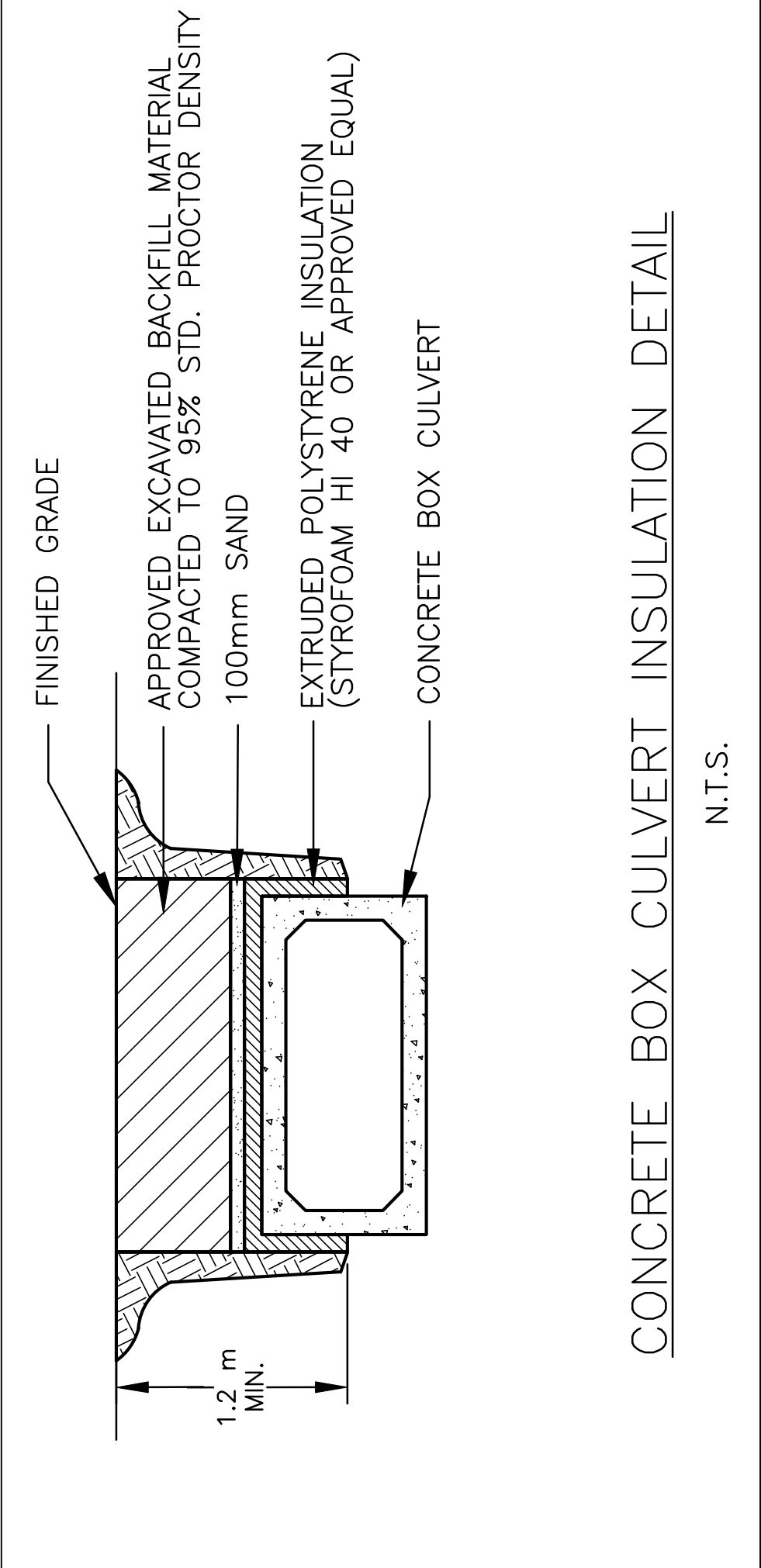


TOP VIEW



SECTION A - A

BOX CULVERT DETAIL WITH RISER - TYP



CONCRETE BOX CULVERT INSULATION DETAIL

N.T.S.



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LIGHTING SYSTEMS AND SCHEDULES

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**1.0 General**

1. Conform to Section 16000-Electrical-General Requirements.
2. Provide electrical floodlights and systems scheduled, complete with LED arrays, drivers and necessary accessories required for their installation and performance.

**2.0 Materials**

1. Catalogue reference numbers given for individual luminaire types are to be supplied as specified.
2. All components will comply with CSA Spec. C22-2 No. 66 including amendments for outdoor operation where applicable, and will be compatible with fixture and lamp assembly which they serve

**3.0 Shop Drawings**

1. Conform to the requirements of Section 16000.
2. Prepare and electronically submit shop drawings in a pdf format of equipment required for review (Refer to the General Conditions of the contract). All shop drawings submitted for review must be reviewed and stamped by the electrical contractor prior to the submission. A copy is to be retained by the contractor on the site, to ensure co-ordination of installation requirements.

**4.0 Alternates**

1. The listing in this specification of any article, material operation or method requires that the contractor will provide each item listed of the quality and subject to the qualifications noted.
2. All materials, apparatus or equipment which are called for on the drawings or in the specifications by trade name or the name of a particular manufacturer, or by catalogue references, are the material, apparatus or equipment which are to be used by the contractor in the preparation of their bid.
3. Names are mentioned in the specifications to furnish a definite basis for the original bid to provide a balanced tender and to more clearly describe the quality in the tender price.
4. Any similar (equal) products may be offered as non-specified alternates, with the cost differential clearly delineated on the tender form. For a particular luminaire to be considered for review, the IESNA formatted performance data for the proposed alternate luminaire, produced in accordance with LM-79-19 testing procedures, will be provided as produced by an independent testing laboratory for each of the luminaires proposed and will be included with the tender submission.
5. The base tendered amount must include the specified products only.

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LIGHTING SYSTEMS AND SCHEDULES

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6. The consultant will review the alternates with the tender review prior to the award of the contract. Failure to include the technical data with the tender submission will result in the alternative product not being considered

### **5.0 Type D Driveway Lighting Assembly**

1. A complete lighting assembly consisting of a poured-in-place concrete base, a painted straight round steel pole and a Cooper Lighting 'McGraw-Edison Galleon II' luminaire.
2. The concrete pole will be StressCrete #E300-APO-G-E11c/w140-25/45 pre-stressed "Décor Series" tapered octagonal 30 foot long finished in #E11 Eclipse (black), etched aggregate.
3. The luminaire will be Cooper Lighting McGraw-Edison "Galleon II" #GALN-SB2B-740-U-T2-BK 74 watt, 120 volt, 4000K CCT LED with 10kV surge protection and a standard pole mount arm for direct mounting to a 5" diameter round pole.
4. The luminaire will have an IES Type II LED optical distribution, an integral electronic 0-10V dimming driver and the luminaire housing will be finished in #BK black polyester powder coat to match the pole.
5. The base mounted pole will be Spina #RSP-5020-AB-BLK-TP 5" straight round steel, 20 feet long for base plate mounting to a poured-in-place concrete base. The pole will be supplied with drillings at the top to accommodate the luminaire, a hand hole cover on the opposite side near the top, a tamper proof hand hole cover at the base and a tamper proof round standard base cover. Refer to #SKE-4 for the concrete base details.
6. The pole will be finished in black powder coat polyester paint to match the luminaires and will be supplied with four (4) 7/8" diameter x 30" long hot dipped galvanized anchor bolts and all related hardware as required.
7. The luminaire is to be wired with 2 - #10RWU+GRD stranded cables from the pole hand hole and positioned square to the lines of the driveway.

### **6.0 Type F Feature Lighting Assembly**

1. A complete lighting assembly consisting of a poured-in-place concrete base, a painted straight round steel pole and a Signify Lighting Color Kinetics "ReachElite High Output IntelliHue" RGBW LED floodlight.
2. The floodlight will be a Signify Lighting Color Kinetics "ReachElite High Output IntelliHue" #423-000303-05 300 watt, 240 volt, RGBW LED floodlight with a #120-000197-09 40 degree spread lens, a #108-000055-00 50' leader cable and a #120-000197-04 slipfitter mount, an adjustable mounting arm, an integral electronic addressable driver, a die-cast aluminum IP66 rated black powder-coated paint finish housing and a clear tempered glass lens.

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LIGHTING SYSTEMS AND SCHEDULES

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3. The base mounted pole will be Spina #RSP-5020-AB-BLK-TP 5" straight round steel, 20 feet long for base plate mounting to a poured-in-place concrete base. The pole will be supplied with a 2-3/8" O.D. x 4" long top tenon, a tamper proof hand hole cover and a tamper proof round standard base cover. Refer to #SKE-4 for the concrete base details.
5. The pole will be finished in black powder coat polyester paint to match the floodlight and will be supplied with four (4) 7/8" diameter x 30" long hot dipped galvanized anchor bolts and all related hardware as required.
6. The floodlight is to be wired back to the appropriate power/data supply with 3-#8 RWU+GRD in 2" rigid PVC conduit. Install the leader cable from the pole hand hole to the floodlight and cut to length.
7. Allow for the required labour and equipment to precisely night time aim the floodlight in the presence of the Consultant to provide the intended floodlighting of the air supported structure exterior.

**7.0 Type F1 Feature Lighting Assembly**

1. A complete lighting assembly consisting of a poured-in-place concrete base, a painted straight square steel pole and a Signify Lighting Color Kinetics "ReachElite High Output IntelliHue" RGBW LED floodlight similar to the Type 'F' lighting assembly but with a curved lid junction box located within the concrete base.
2. The base mounted pole will be Spina #RSP-5020-AB-BLK-TP 5" straight round steel, 20 feet long for base plate mounting to a poured-in-place concrete base. The pole will be supplied with a 2-3/8" O.D. x 4" long top tenon, a tamper proof hand hole cover and a tamper proof round standard base cover. The concrete base will be provided with a Carlon #E1212C24 curved lid junction box formed within the concrete base to house the power/data supply. Refer to #SKE-4 for the concrete base details.
3. All other aspects of the Type 'F1' lighting assembly will be identical to the Type 'F' lighting assembly.

**8.0 Type F1C Feature Lighting Assembly**

1. A complete lighting assembly consisting of a poured-in-place concrete base, a painted straight square steel pole and a Signify Lighting Color Kinetics "ReachElite High Output IntelliHue" RGBW LED floodlight similar to the Type 'F1' lighting assembly but with an additional hand hole cover near the top of the pole for future security camera wiring.



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LIGHTING SYSTEMS AND SCHEDULES

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2. The base mounted pole will be Spina #RSP-5020-AB-2HH-BLK-TP 5" straight round steel, 20 feet long for base plate mounting to a poured-in-place concrete base. The pole will be supplied with a 2-3/8" O.D. x 4" long top tenon, a tamper proof hand hole cover and a tamper proof round standard base cover. The concrete base will be provided with a Carlon #E1212C24 curved lid junction box formed within the concrete base to house the power/data supply (where required). Refer to #SKE-4 for the concrete base details.
3. Each pole will be supplied with one (1) additional hand hole cover located 18 feet from the base of the pole for the installation of future security camera wiring. Provide a nylon pull string in 3/4" ENT directly from the junction box to the top hand hole and supported behind the cover with a Kellems mesh grip.
4. All other aspects of the Type 'F1C' lighting assembly will be identical to the Type 'F1' lighting assembly.

**9.0 Type FD Feature/Driveway Lighting Assembly**

1. A complete lighting assembly consisting of a poured-in-place concrete base, a painted straight round steel pole, a Signify Lighting Color Kinetics "ReachElite High Output IntelliHue" RGBW LED floodlight and a Cooper Lighting 'McGraw-Edison Galleon II' luminaire.
2. The feature floodlight will be a Signify Lighting Color Kinetics "ReachElite High Output IntelliHue" #423-000303-05 300 watt, 240 volt, RGBW LED floodlight with a #120-000197-09 40 degree spread lens, a #108-000055-00 50' leader cable and a #120-000197-04 slipfitter mount, an adjustable mounting arm, an integral electronic addressable driver, a die-cast aluminum IP66 rated black powder-coated paint finish housing and a clear tempered glass lens.
3. The driveway luminaire will be Cooper Lighting McGraw-Edison "Galleon II" #GALN-SB2B-740-U-T2-BK 74 watt, 120 volt, 4000K CCT LED with 10kV surge protection and a standard pole mount arm for direct mounting to a 5" diameter round pole.
4. The driveway luminaire will have an IES Type II LED optical distribution, an integral electronic 0-10V dimming driver and the luminaire housing will be finished in #BK black polyester powder coat to match the pole.
5. The base mounted pole will be Spina #RSP-5020-AB-BLK-TP 5" straight round steel, 20 feet long for base plate mounting to a poured-in-place concrete base. The pole will be supplied with a 2-3/8" O.D. x 4" long top tenon for the feature floodlight, drillings at the top to accommodate the driveway luminaire, a tamper proof hand hole cover and a tamper proof round standard base cover. Refer to #SKE-4 for the concrete base details.
6. The pole will be finished in black powder coat polyester paint to match the luminaires and will be supplied with four (4) 7/8" diameter x 30" long hot dipped galvanized anchor bolts and all related hardware as required.

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LIGHTING SYSTEMS AND SCHEDULES

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7. The feature floodlight is to be wired back to the appropriate power/data supply with 3-#8 RWU+GRD in 2" rigid PVC conduit. Install the leader cable from the pole hand hole to the floodlight and cut to length.
8. The driveway luminaire is to be wired with 2 - #10RWU+GRD stranded cables from the pole hand hole and positioned square to the lines of the driveway.
9. Allow for the required labour and equipment to precisely night time aim the feature floodlight in the presence of the Consultant to provide the intended floodlighting of the air supported structure exterior.

#### **10.0 Type F1DC Feature/Driveway Lighting Assembly**

1. A complete lighting assembly consisting of a poured-in-place concrete base, a painted straight round steel pole, a Signify Lighting Color Kinetics "ReachElite High Output IntelliHue" RGBW LED floodlight and a Cooper Lighting 'McGraw-Edison Galleon II' luminaire similar to the Type 'FD' lighting assembly but with a curved lid junction box located within the concrete base and an additional hand hole cover near the top of the pole for future security camera wiring.
2. The base mounted pole will be Spina #RSP-5020-AB-2HH-BLK-TP 5" straight round steel, 20 feet long for base plate mounting to a poured-in-place concrete base. The pole will be supplied with a 2-3/8" O.D. x 4" long top tenon for the feature floodlight, drillings at the top to accommodate the driveway luminaire, a tamper proof hand hole cover and a tamper proof round standard base cover. The concrete base will be provided with a Carlon #E1212C24 curved lid junction box formed within the concrete base to house the power/data supply. Refer to #SKE-4 for the concrete base details.
3. Each pole will be supplied with one (1) additional hand hole cover located 18 feet from the base of the pole for the installation of future security camera wiring. Provide a nylon pull string in 3/4" ENT directly from the junction box to the top hand hole and supported behind the cover with a Kellems mesh grip.
4. All other aspects of the Type 'F1DC' lighting assembly will be identical to the Type 'FD' lighting assembly.

#### **11.0 Feature Lighting Components & Services**

1. Supply and install ten (10) Signify Lighting Color Kinetics "Data Enabler Pro" #106-000004-00 power/data supplies, 16 amp 100-277 VAC output, 100-277 VAC input housed in a cast aluminum IP66 enclosure. One (1) of the power/data supplies is to be mounted in the Fieldhouse Mechanical/Electrical Room adjacent to the controller and one (1) is to be located within the base of each Type 'F1' and 'F1D' lighting assembly. Ethernet cables will be supplied and terminated between power/data supplies and the PoE switch.

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LIGHTING SYSTEMS AND SCHEDULES

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2. Supply and install a Signify Lighting Color Kinetics “iPlayer 4” #103-000042-21 controller, 500 node, 100-240 VAC housed in an aluminum enclosure and a #120-000084-01 PoE switch. The controller and switch are to be mounted in the Fieldhouse Mechanical/Electrical Room in a Hammond #VPB194UBK vertical mounting wall rack and plugged into a 15 amp 120 volt duplex receptacle supplied from a dedicated circuit breaker in panel ‘LP-B’. Provide an Ethernet cable between the controller and switch
3. Provide factory certified commissioning and programming of the entire floodlighting system. Program the new Light System Composer light show authoring software provided with the controller to the parameters provided by the City of Brampton representative.
4. Include for the supply and installation of a one (1) year subscription to Signify Lighting’s ‘Interact Landmark’ Scene Management software to allow for the remote programming and monitoring of the new floodlighting system. The City of Brampton will provide the required LAN connection to the iPlayer 4 controller.
5. Coordinate with the City of Brampton representative to provide their designate(s) with eight (8) hours of on-site training for the new Light System Composer light show authoring software. All training to be provided by a factory trained and authorized representative at City of Brampton offices following substantial completion.

LIGHTING SYSTEMS AND SCHEDULES

**CASSIE CAMPBELL AIR SUPPORTED STRUCTURE  
 PANEL DP-A**

600 Amp 347/600 Volt 3-Phase 4-Wire surface 54 circuit panelboard with bolt-on branch circuit breakers. Siemens Type 'P2' or equal.

Dome Emerg. Ltg.	20A	*	1	2	20A	Dome Lighting
Dome Lighting	20A		3	4	20A	Dome Lighting
Dome Lighting	20A		5	6	20A	Dome Lighting
Dome Lighting	20A		7	8	20A	Dome Lighting
Dome Lighting	20A		9	10	20A	Dome Lighting
Dome Lighting	20A		11	12	20A	Spare
Primary Heat/ Inflation Unit #1	40A	{	13 15 17	14 16 18	}	50A Transfer Switch #1/ Standby/Low Pressure Inflation Unit
75 kVA Transformer	90A	{	19 21 23	20 22 24	}	30A Transfer Switch #2/ Panel LP-E
Primary Heat/ Inflation Unit #2	40A	{	25 27 29	26 28 30	}	150A Air Conditioning Recirculation Unit #1
Air Conditioning Recirculation Unit #2	150A	{	31 33 35	32 34 36	}	40A Spare
Driveway Lighting	15A		37	38		
Spare	20A		39	40		
			41	42		
			43	44		
			45	46		
			47	48		
			49	50		
			51	52		
			53	54		

\* CIRCUIT BREAKER LOCK-OFF REQUIRED

LIGHTING SYSTEMS AND SCHEDULES

**CASSIE CAMPBELL AIR SUPPORTED STRUCTURE  
 PANEL LP-B**

400 Amp 120/208 Volt 3-Phase 4-Wire surface 90 circuit panelboard with bolt-on branch circuit breakers. Siemens Type 'P2' or equal.

Control Power	15A		<b>1</b>	<b>2</b>	15A	Air Lock O/H Doors	
Air Lock Door Operators	15A	*	<b>3</b>	<b>4</b>	* 15A	Air Lock Lighting	
Air Lock Lighting	15A	*	<b>5</b>	<b>6</b>	15AGFI	J.B. Receptacle	
J.B. Receptacle	15AGFI		<b>7</b>	<b>8</b>	15AGFI	J.B. Receptacle	
J.B. Receptacle	15AGFI		<b>9</b>	<b>10</b>	15AGFI	J.B. Receptacle	
J.B. Receptacle	15AGFI		<b>11</b>	<b>12</b>	15AGFI	J.B. Receptacle	
J.B. Receptacle	15AGFI		<b>13</b>	<b>14</b>	15AGFI	J.B. Receptacle	
Spare	15AGFI		<b>15</b>	<b>16</b>	15AGFI	Spare	
Feature Lighting	15A	{	<b>17</b> <b>19</b>	<b>18</b> <b>20</b>	}	15A	Feature Lighting
Feature Lighting	15A	{	<b>21</b> <b>23</b>	<b>22</b> <b>24</b>	}	15A	Feature Lighting
Feature Lighting	15A	{	<b>25</b> <b>27</b>	<b>26</b> <b>28</b>	}	15A	Spare
Comm. Receptacle	15A		<b>29</b>	<b>30</b>	15A	Sump Pit	
Lighting Controller	15A		<b>31</b>	<b>32</b>	15A	Sump Pit	
Pri. Unit #1 Rec./Ltg.	15A		<b>33</b>	<b>34</b>	15A	Driveway Lighting	
Pri. Unit #2 Rec./Ltg.	15A		<b>35</b>	<b>36</b>	15A	Spare	
	20A		<b>37</b>	<b>38</b>	20A		
	20A		<b>39</b>	<b>40</b>	20A		
	20A		<b>41</b>	<b>42</b>	20A		
	20A		<b>43</b>	<b>44</b>	20A		
	20A		<b>45</b>	<b>46</b>	20A		
	20A		<b>47</b>	<b>48</b>	20A		
	20A		<b>49</b>	<b>50</b>	20A		
	20A		<b>51</b>	<b>52</b>	20A		
	20A		<b>53</b>	<b>54</b>	20A		
	20A		<b>55</b>	<b>56</b>	20A		
Spare	20A		<b>57</b>	<b>58</b>	20A	Spare	
	20A		<b>59</b>	<b>60</b>	20A		

LIGHTING SYSTEMS AND SCHEDULES

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	15A	<b>61</b>	<b>62</b>	15A	Spare
	15A	<b>63</b>	<b>64</b>	15A	
	15A	<b>65</b>	<b>66</b>	15A	
	15A	<b>67</b>	<b>68</b>	15A	
	15A	<b>69</b>	<b>70</b>	15A	
	50A	{ <b>71</b>	<b>72</b>		
		<b>73</b>	<b>74</b>		
		<b>75</b>	<b>76</b>		
		<b>77</b>	<b>78</b>		
		<b>79</b>	<b>80</b>		
		<b>81</b>	<b>82</b>		
Spare	15A	{ <b>83</b>	<b>84</b>	{ 60A	Generator Enclosure Panel
		<b>85</b>	<b>86</b>		
		<b>87</b>	<b>88</b>	15A	Spare
		<b>89</b>	<b>90</b>	15A	Spare

**\* CIRCUIT BREAKER LOCK-OFF REQUIRED**

LIGHTING SYSTEMS AND SCHEDULES

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**CASSIE CAMPBELL AIR SUPPORTED STRUCTURE  
PANEL LP-E**

125 Amp 347/600 Volt 3 Phase 4 Wire surface 18 circuit panelboard with bolt-on branch circuit breakers. Siemens Type 'P1' or equal.

Dome Emerg. Ltg.	15A	*	1	2	*	15A	Dome Emerg. Ltg.
			3	4		15A	Spare
			5	6			
			7	8			
			9	10			
			11	12			
			13	14			
			15	16			
			17	18			

**\* CIRCUIT BREAKER LOCK-OFF REQUIRED**

LIGHTING SYSTEMS AND SCHEDULES

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**CASSIE CAMPBELL AIR SUPPORTED STRUCTURE  
PANEL DP-G**

125 Amp 347/600 Volt 3 Phase 4 Wire surface 18 circuit panelboard with bolt-on branch circuit breakers. Siemens Type 'P1' or equal.

Transfer Switch #2/ Life Safety Panel LP-E	30A	{	1 3 5	2 4 6	}	50A	Transfer Switch #1/ Standby/Low Inflation Unit
			7 9 11 13 15 17	8 10 12 14 16 18			



LIGHTING SYSTEMS AND SCHEDULES

**CASSIE CAMPBELL AIR SUPPORTED STRUCTURE  
 Schedule of Lighting Contactors**

<b>Designation</b>	<b>Qty.</b>	<b>Contact Rating</b>	<b>No. of Poles</b>	<b>Type</b>	<b>Coil Volt</b>	<b>Aux. Conts.</b>	<b>Select Switch</b>
Contactors Enclosure #1 Dome Interior (Circuits DPA-2 to 11)	4	30A 600V	3	EO/EH	120	1 - N/O 1 - N/C	H-O-A
Contactors Enclosure #2 Driveway	1	30A 600V	3	EO/EH	120	1 - N/O 1 - N/C	H-O-A
Contactors Enclosure #3 Dome Emergency (Circuits LPE-1 & 2)	1 1	30A 600V <b>30A 600V</b>	3 3	EO/EH <b>EO/EH</b> <b>Normally-Closed</b>	120 <b>120</b>	None	None

**Lighting Contactors**

Provide where shown on the drawings and further detailed in the above schedule all definite use IEC lighting contactors as required. All contactors are to be 600 volt rated, normally-open, electrically operated, electrically held with 120 volt coils and are to be housed in CSA approved EEMAC 1 enclosures with "Hand-Off-Auto" selector switches mounted in the covers unless otherwise noted. Provide a red lamicoid label on the cover of the enclosure to read "CAUTION-TWO SOURCES OF SUPPLY".

Contactors will be manufactured by:

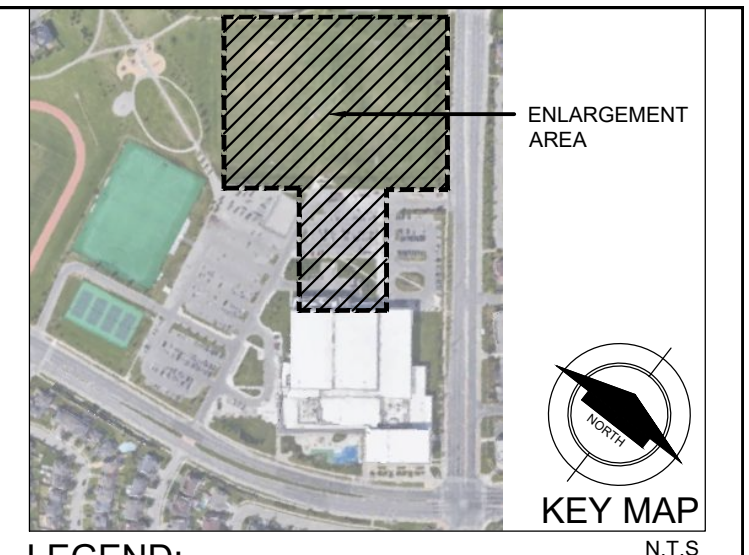
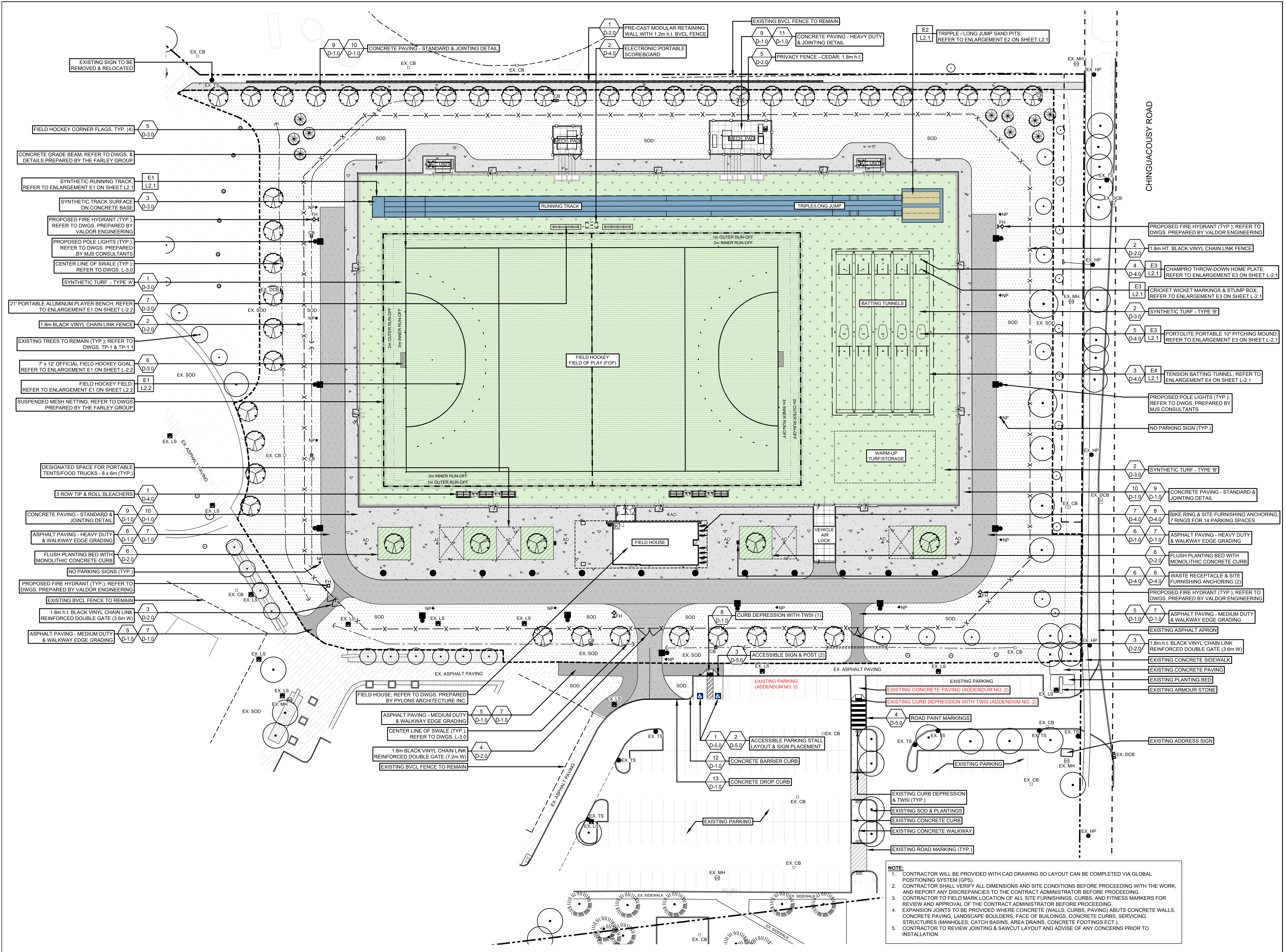
- Schneider Square D Class 8903
- Allen-Bradley Bulletin 100C
- Siemens Class LCE
- S & S CAL7
- Eaton Cutler Hammer Type C30CNE

**END OF SECTION**







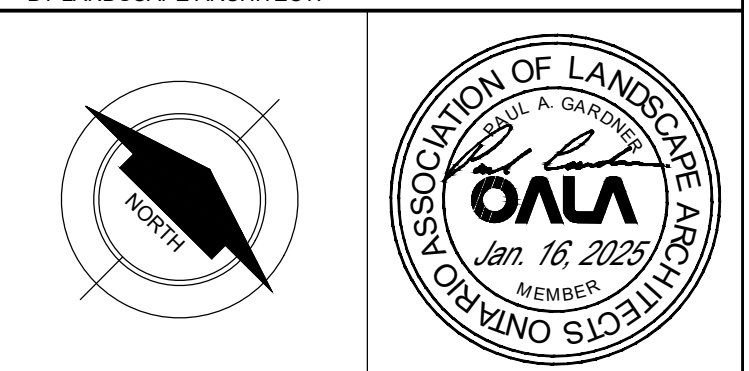


**LEGEND:**

DETAIL #	SHEET #	PROPERTY LINE
1	D-0	EASEMENT
1	D-0	EXISTING BVCL FENCE TO REMAIN
1	D-0	1.8m h.t. BVCL FENCE
1	D-0	1.2m h.t. BVCL FENCE
1	D-0	1.8m h.t. PRIVACY FENCE - CEDAR
1	D-0	SUSPENDED MESH NETTING
1	D-0	PROPOSED DROP CURB
1	D-0	EXISTING DROP CURB
1	D-0	CONCRETE PAVING - STANDARD
1	D-0	CONCRETE PAVING - HEAVY DUTY
1	D-0	ASPHALT PAVING - MEDIUM DUTY
1	D-0	ASPHALT PAVING - HEAVY DUTY
1	D-0	EXISTING ASPHALT
1	D-0	EXISTING CONCRETE
1	D-0	SOD
1	D-0	EXISTING SOD
1	D-0	ARTIFICIAL TURF - TYPE 'A'
1	D-0	ARTIFICIAL TURF - TYPE 'B'
1	D-0	RUBBER SURFACING
1	D-0	SAND PIT
1	D-0	PLANT BED
1	D-0	BIKE RING
1	D-0	WASTE RECEPTACLE
1	D-0	3 ROW BLEACHER
1	D-0	PORTABLE PLAYERS BENCH
1	D-0	CONCRETE WALL WITH BENCH
1	D-0	EX. LIGHT STANDARD
1	D-0	EX. TRAFFIC SIGN
1	D-0	EX. HYDRO POLE
1	D-0	EX. CATCH BASIN
1	D-0	EX. MAN HOLE
1	D-0	PROP. CATCH BASIN
1	D-0	PROP. MAN HOLE
1	D-0	PROP. FIRE HYDRANT
1	D-0	PROP. FIRE ROUTE & NO PARKING SIGN

REV.	ISSUED FOR	DATE	BY
R7	Issued for Addendum No. 2	2025-01-18	DP
R6	Re-issued for Tender	2024-12-06	DP
R5	Issued for Tender	2024-11-13	DP
R4	Re-issued for SPA	2024-11-08	DP

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project number  
**2023-093**



project title  
**CASSIE CAMPBELL COMMUNITY CENTRE FIELD HOCKEY DOME**  
1060 Sandalwood Pkwy W., Brampton ON, L7A 2Z8

client  
**CITY OF BRAMPTON**

city file number  
**SPA-2024-0106**

drawing title  
**LANDSCAPE / SURFACE MATERIALS PLAN**

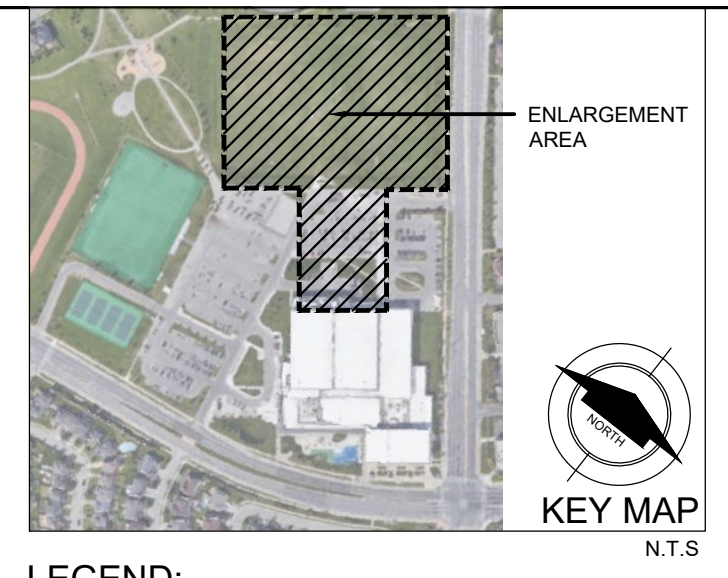
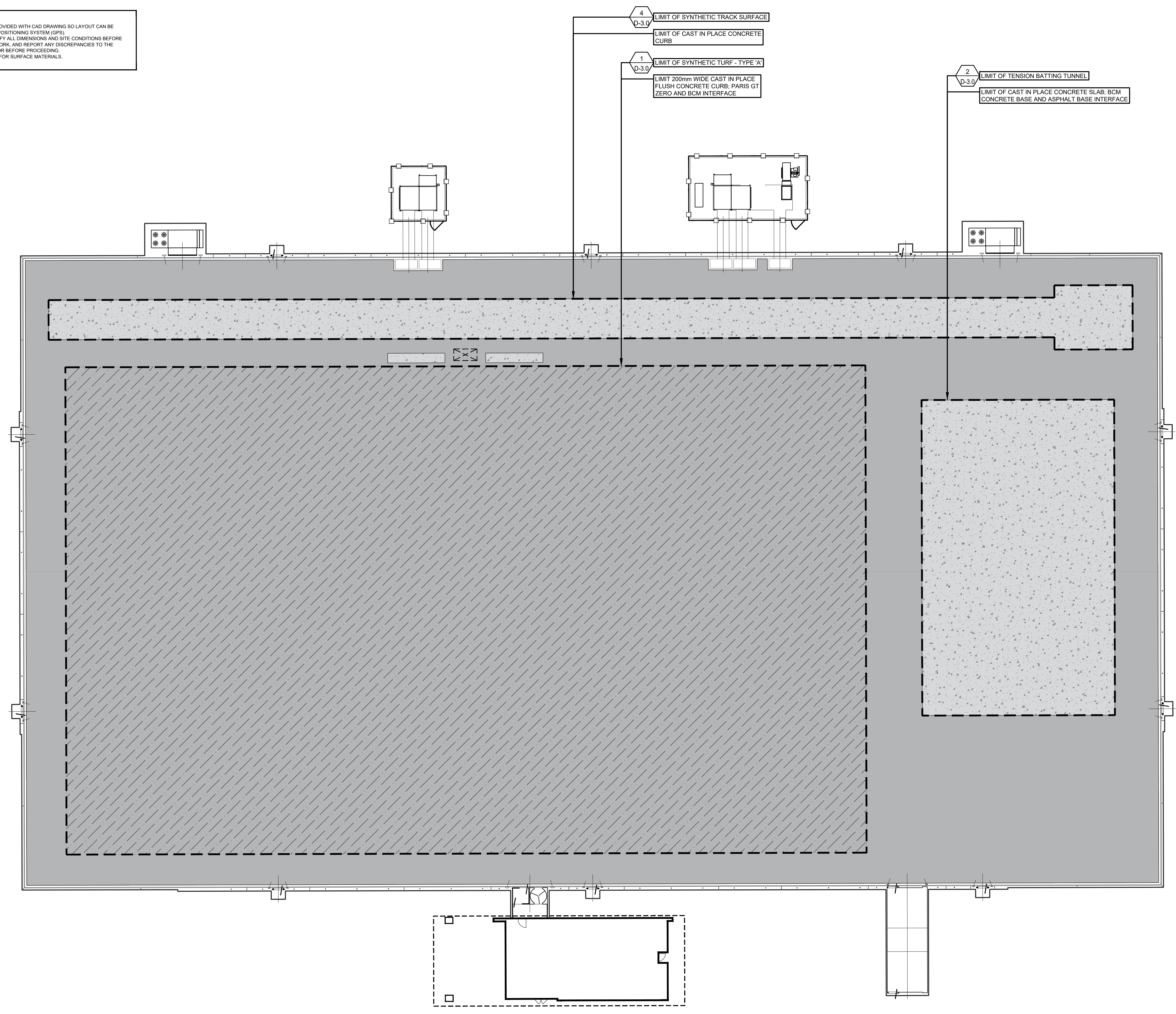
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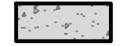
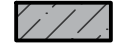

**NOTE:**

- CONTRACTOR WILL BE PROVIDED WITH CAD DRAWING SO LAYOUT CAN BE COMPLETED VIA GLOBAL POSITIONING SYSTEM (GPS).
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK, AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.
- CONTRACTOR TO FIELD MARK LOCATION OF ALL SITE FURNISHINGS, CURBS, AND FITNESS MARKERS FOR REVIEW AND APPROVAL OF THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.
- EXPANSION JOINTS TO BE PROVIDED WHERE CONCRETE (WALLS, CURBS, PAVING) ABUTS CONCRETE WALLS, CONCRETE PAVING, LANDSCAPE BOULDERS, FACE OF BUILDINGS, CONCRETE CURBS, SERVICING STRUCTURES (MANHOLES, CATCH BASINS, AREA DRAINS, CONCRETE FOOTINGS ECT.).
- CONTRACTOR TO REVIEW JOINTING & SAWCUT LAYOUT AND ADVISE OF ANY CONCERNS PRIOR TO INSTALLATION.



**NOTE:**  
 1. CONTRACTOR WILL BE PROVIDED WITH CAD DRAWING SO LAYOUT CAN BE COMPLETED VIA GLOBAL POSITIONING SYSTEM (GPS).  
 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK, AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.  
 3. REFER TO DRAWING L-1.0 FOR SURFACE MATERIALS.



- LEGEND:**
-  CONCRETE PAVING - STANDARD
  -  ASPHALT PAVING STANDARD (SYNTHETIC TURF - TYPE 'A' PROFILE)
  -  ASPHALT PAVING STANDARD (SYNTHETIC TURF - TYPE 'B' PROFILE)

no.	revision	date	by
R7	Issued for Addendum No. 2	2025-01-18	DP
R6	Re-issued for Tender	2024-12-06	DP
R5	Issued for Tender	2024-11-13	DP
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project number  
**2023-093**



project title  
**CASSIE CAMPBELL  
 COMMUNITY CENTRE  
 FIELD HOCKEY DOME**  
 1060 Sandalwood Pkwy W., Brampton ON, L7A 2Z8

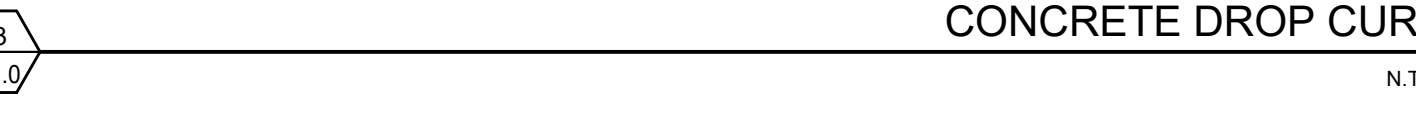
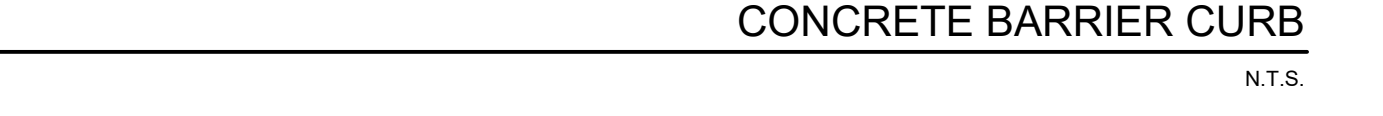
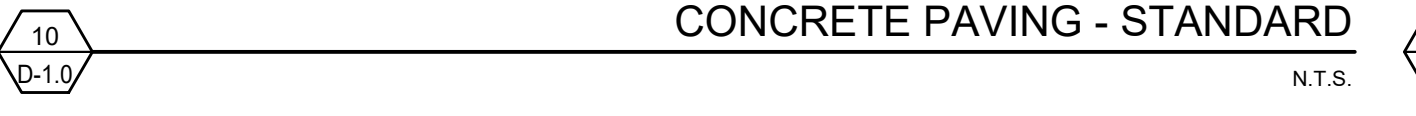
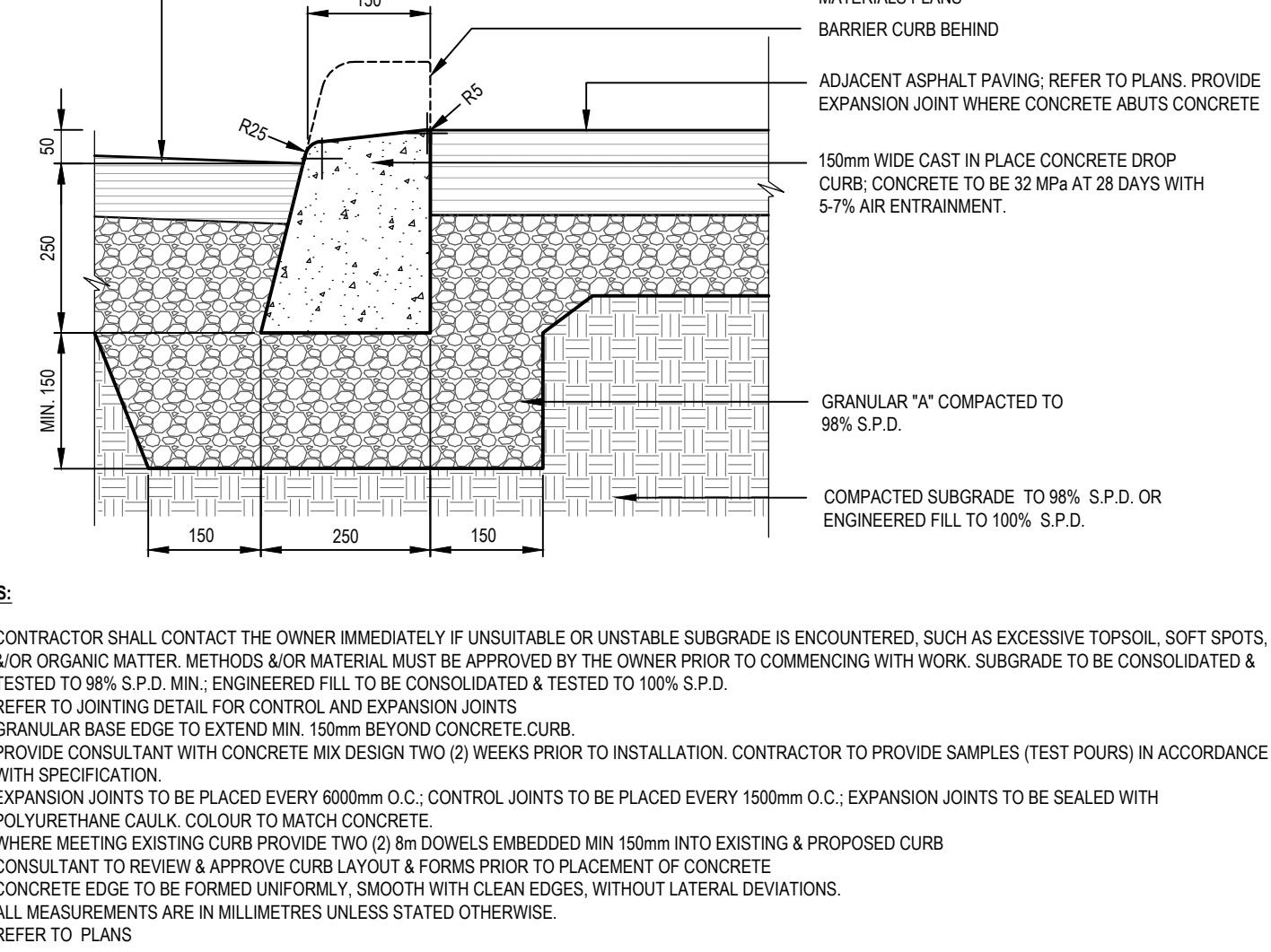
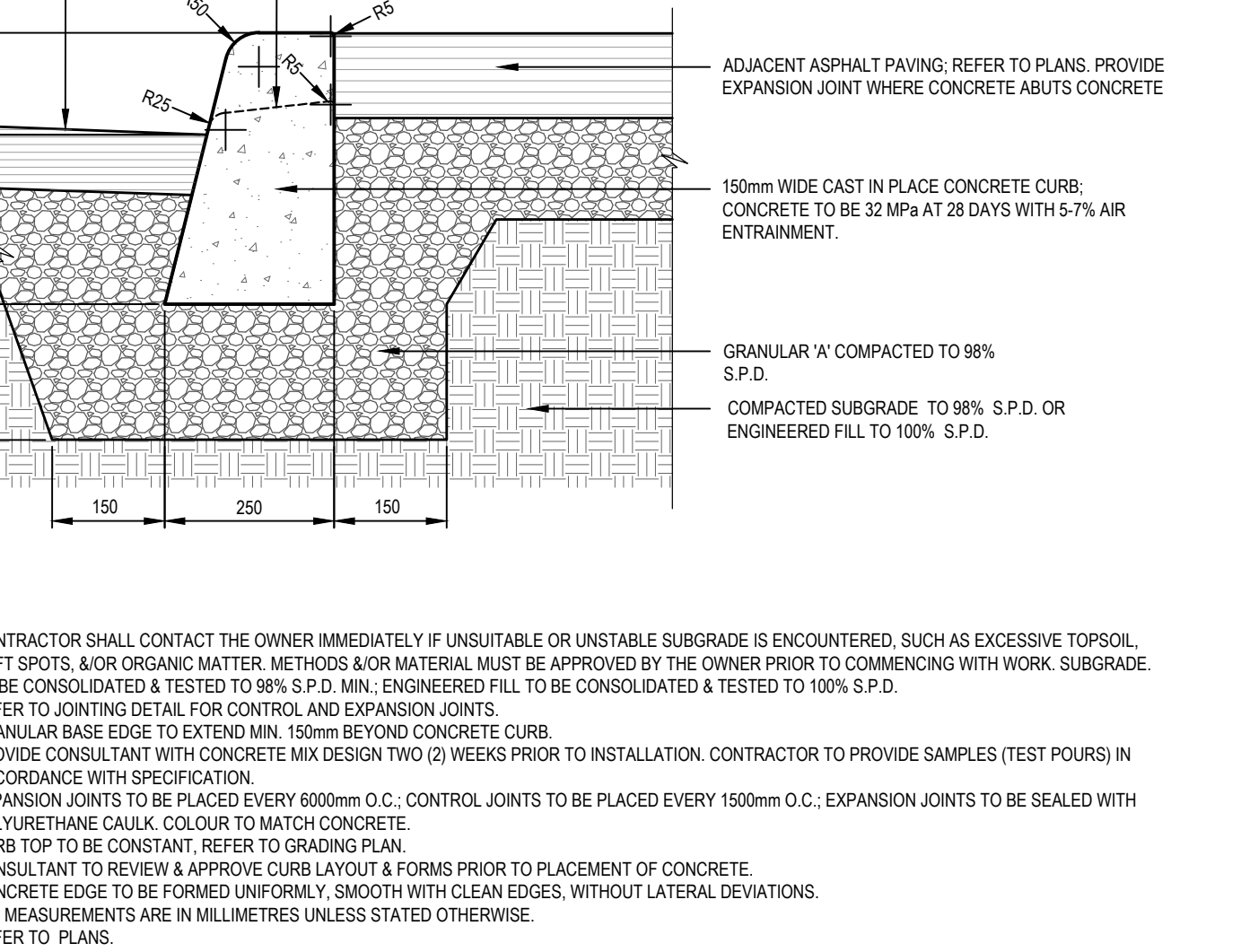
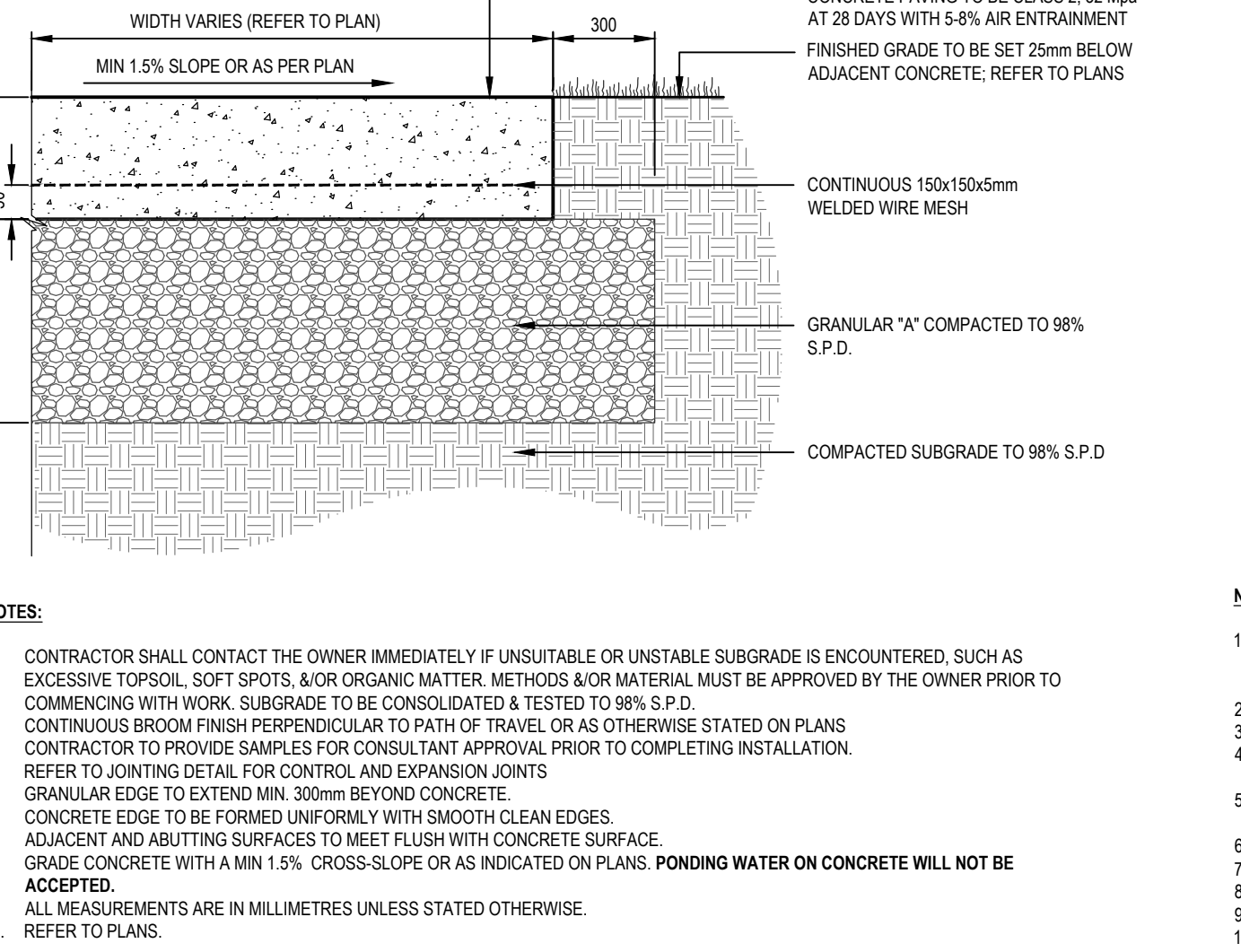
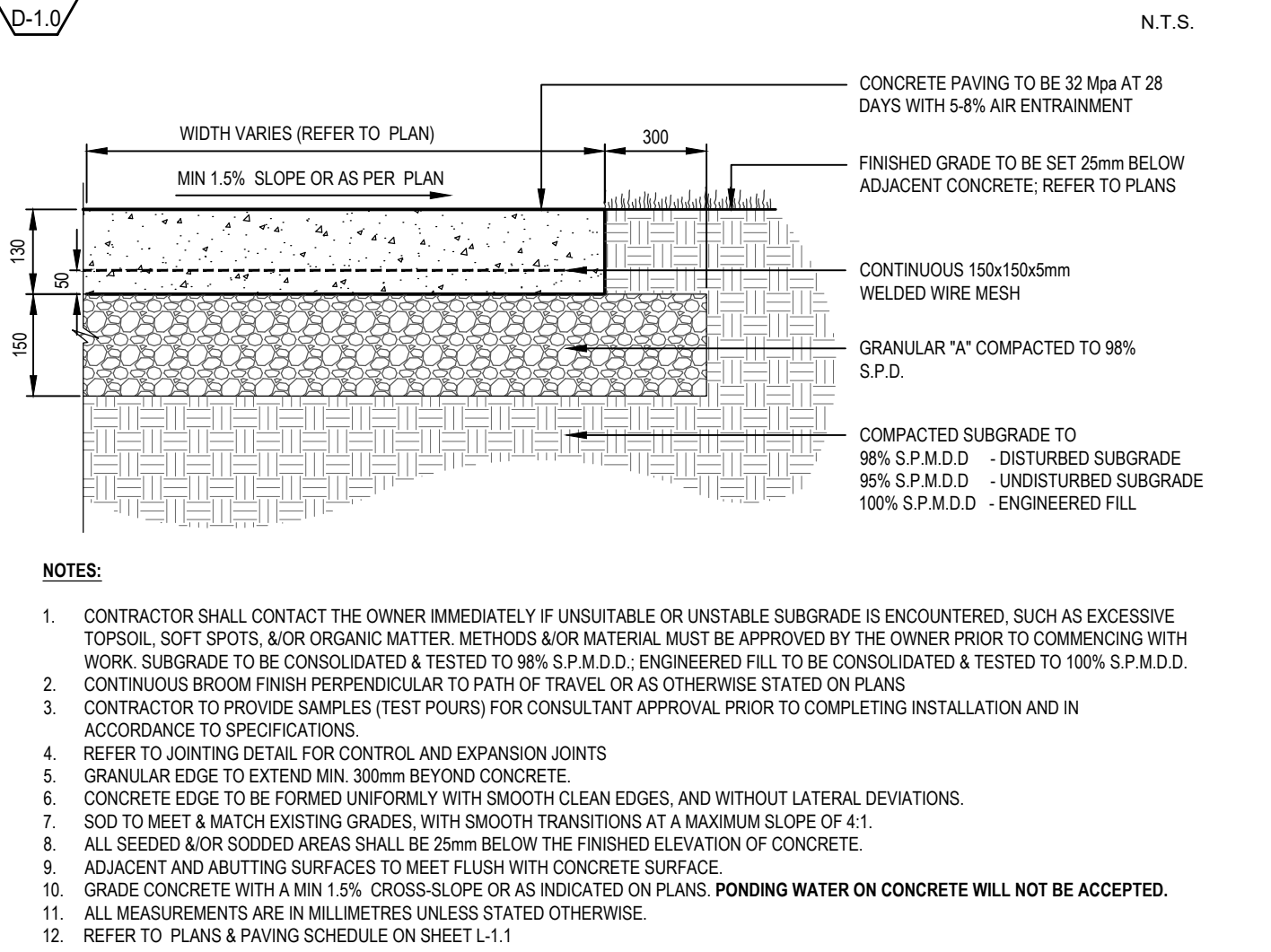
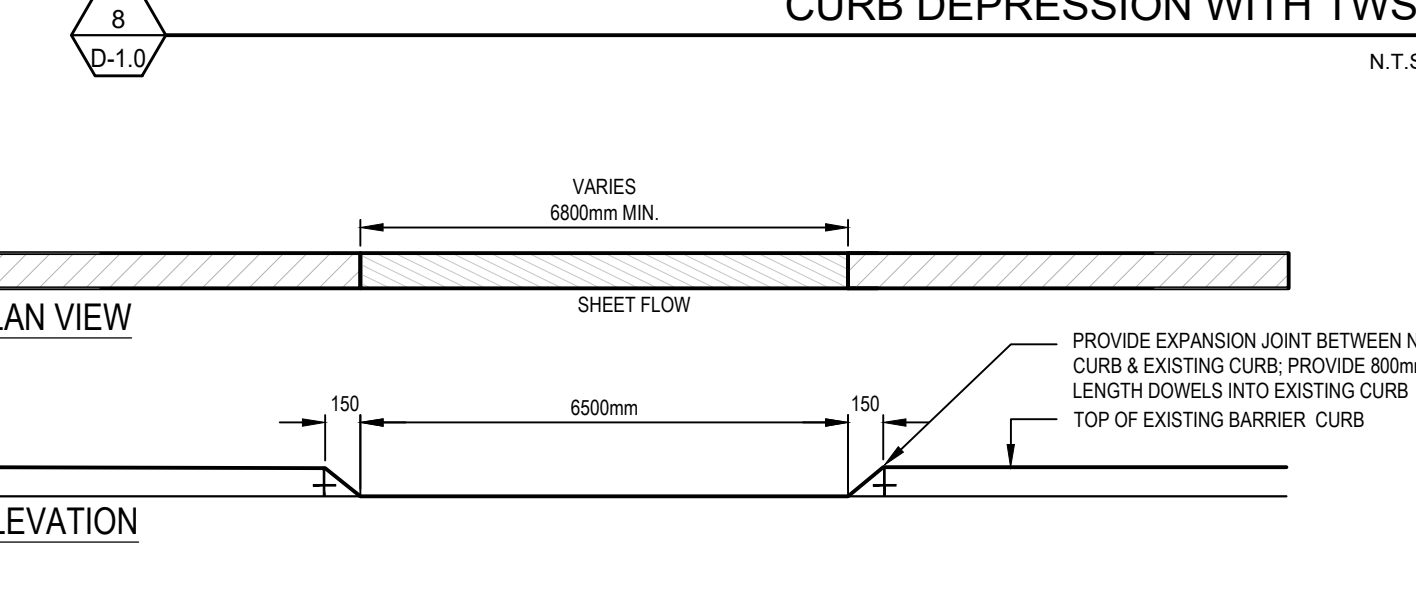
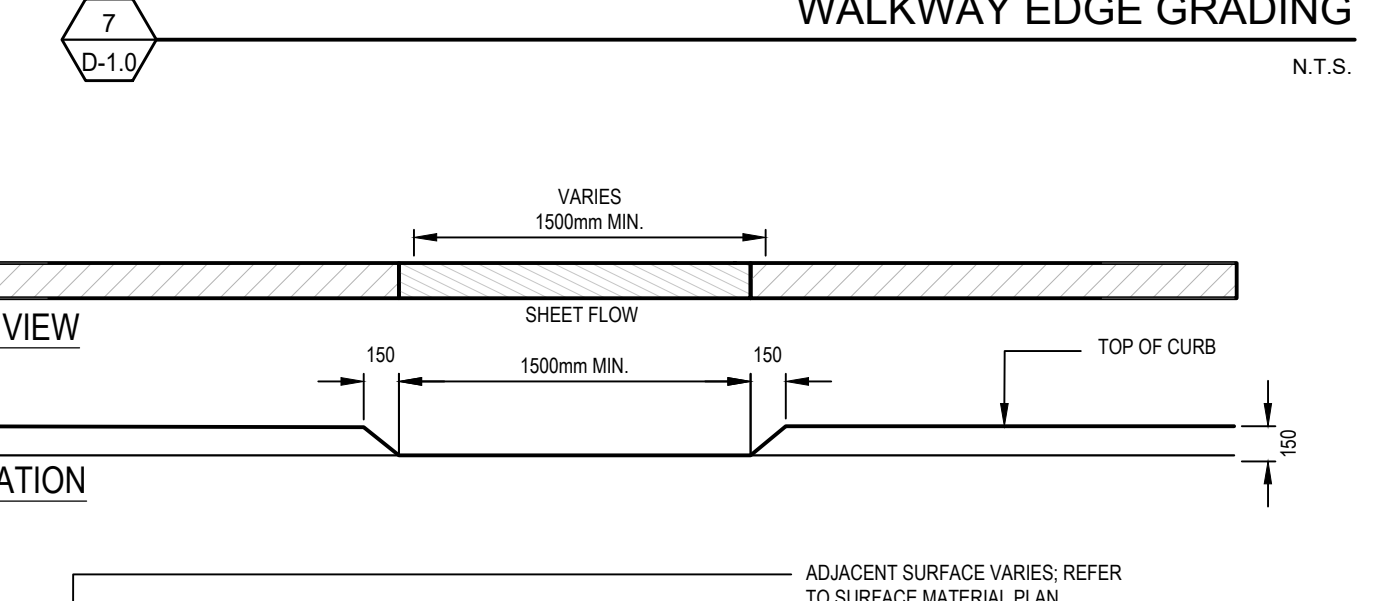
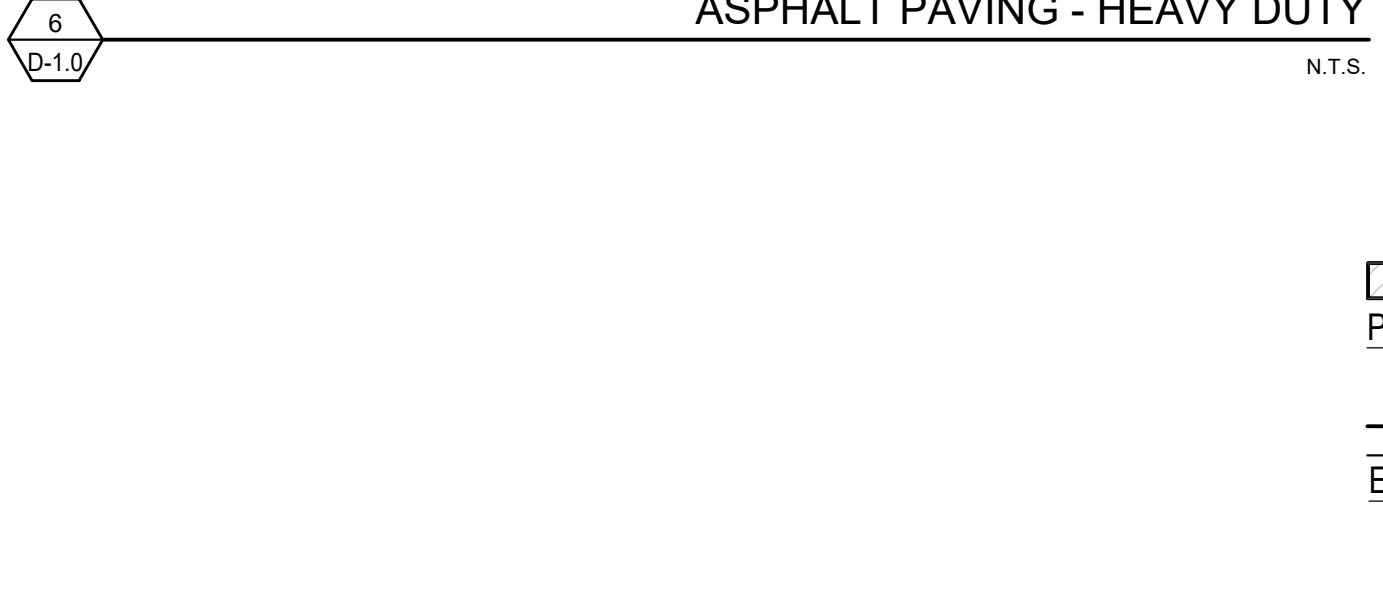
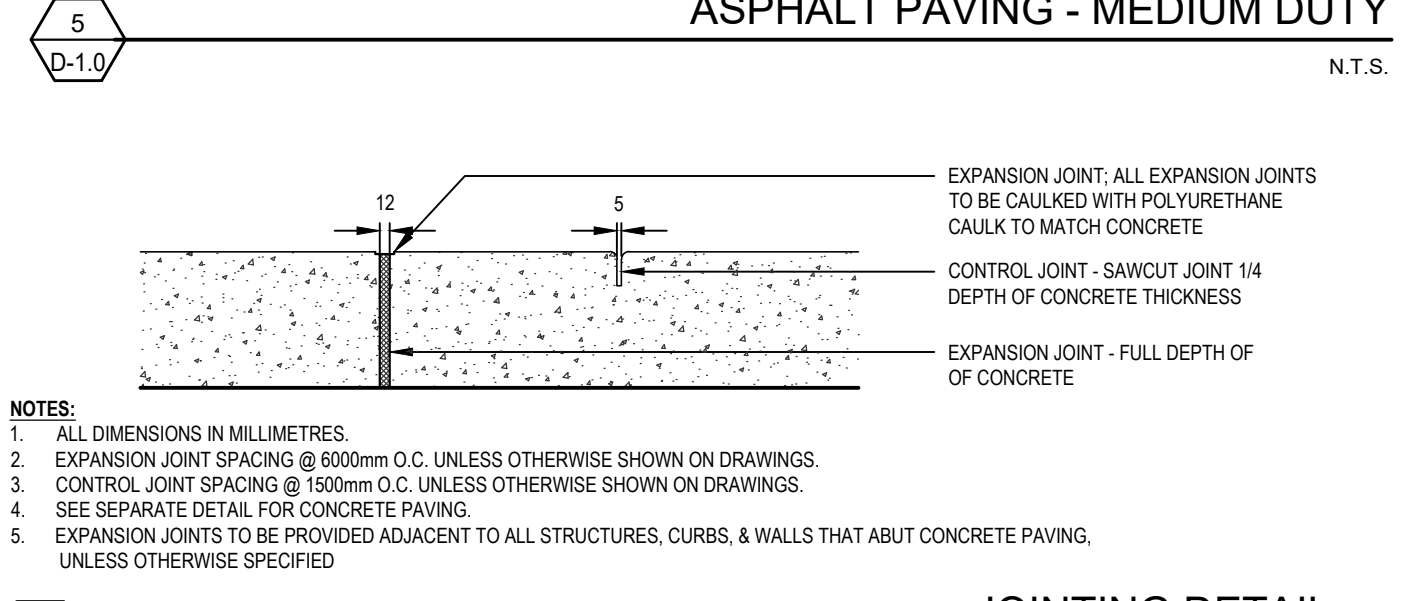
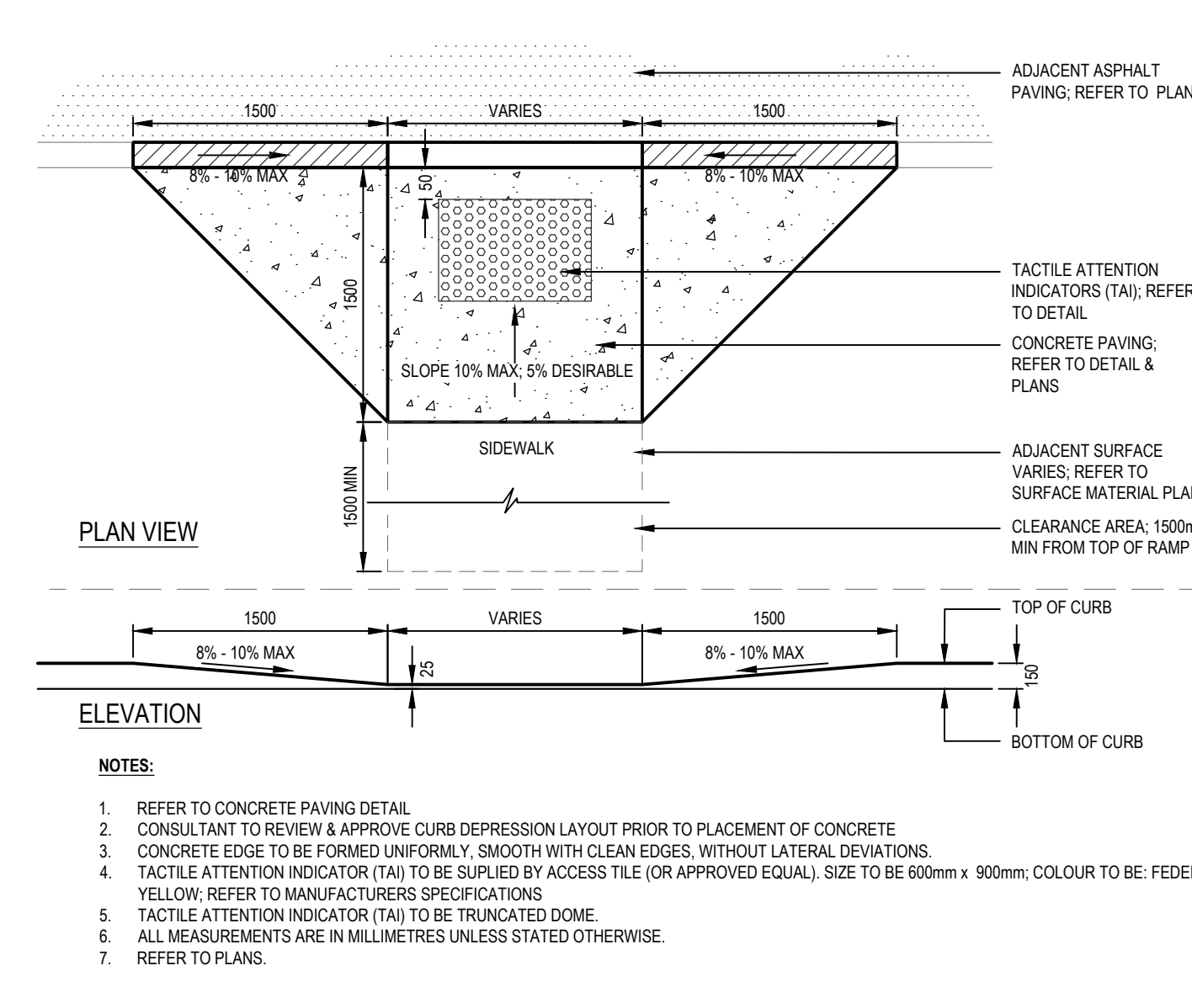
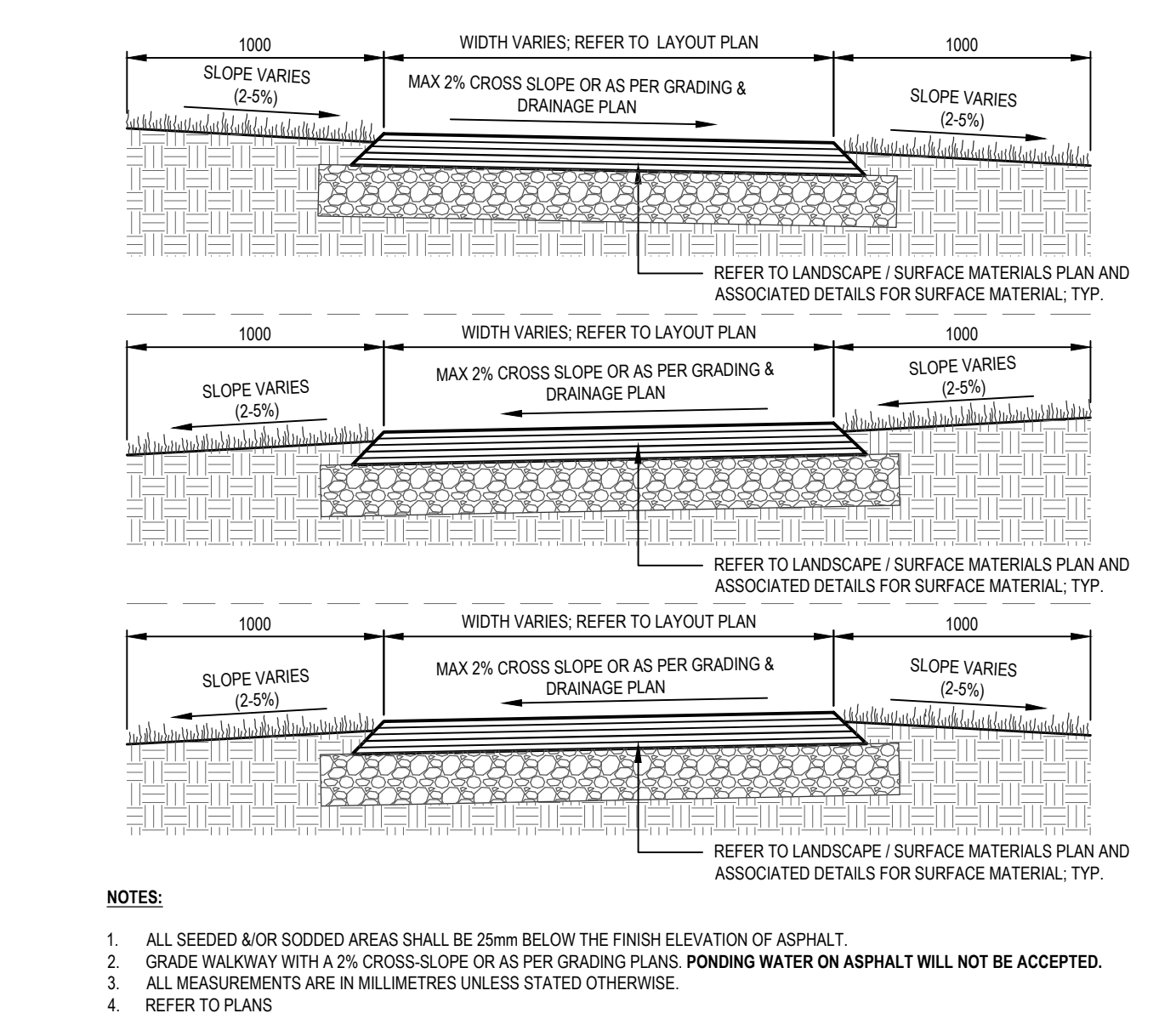
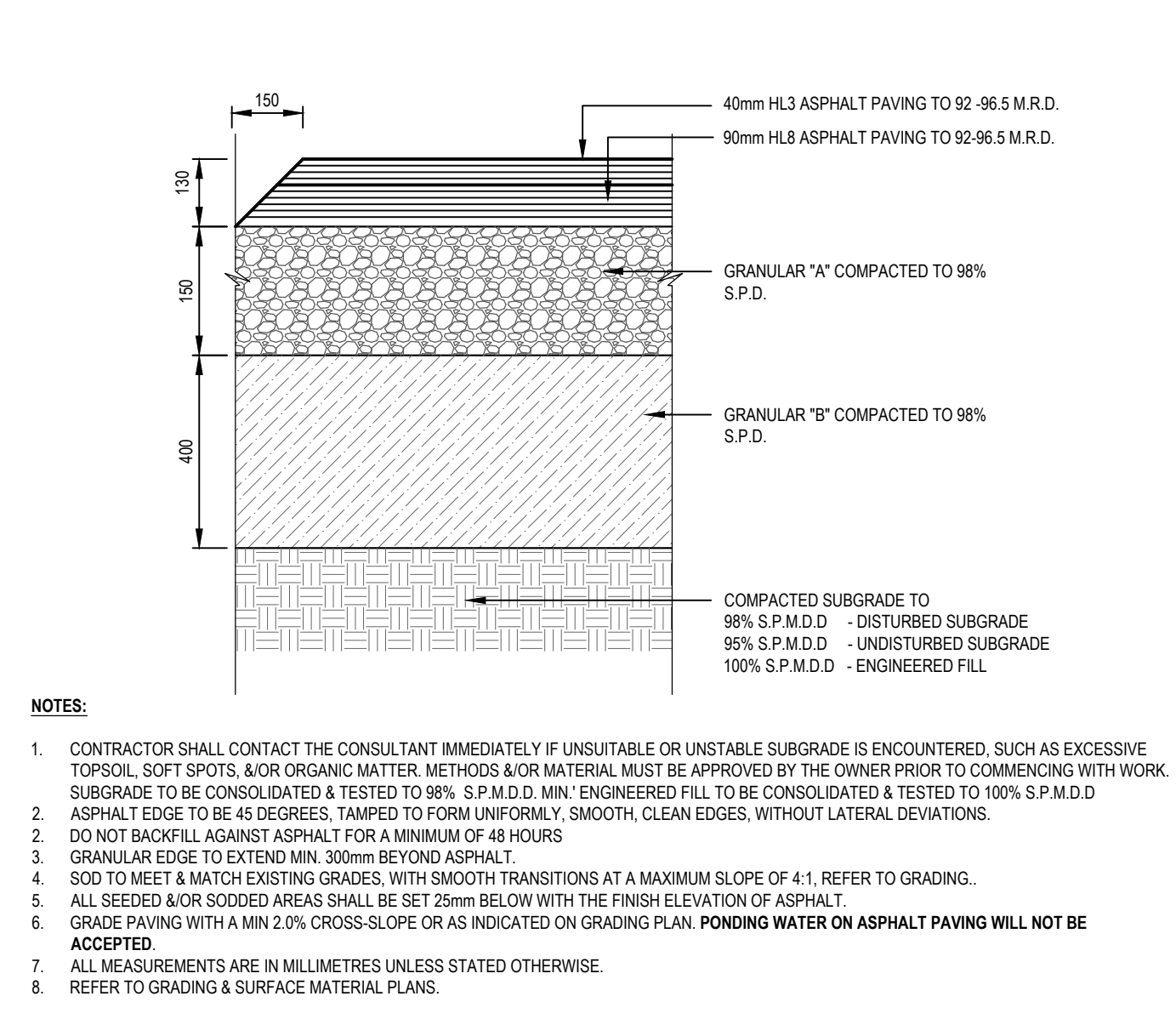
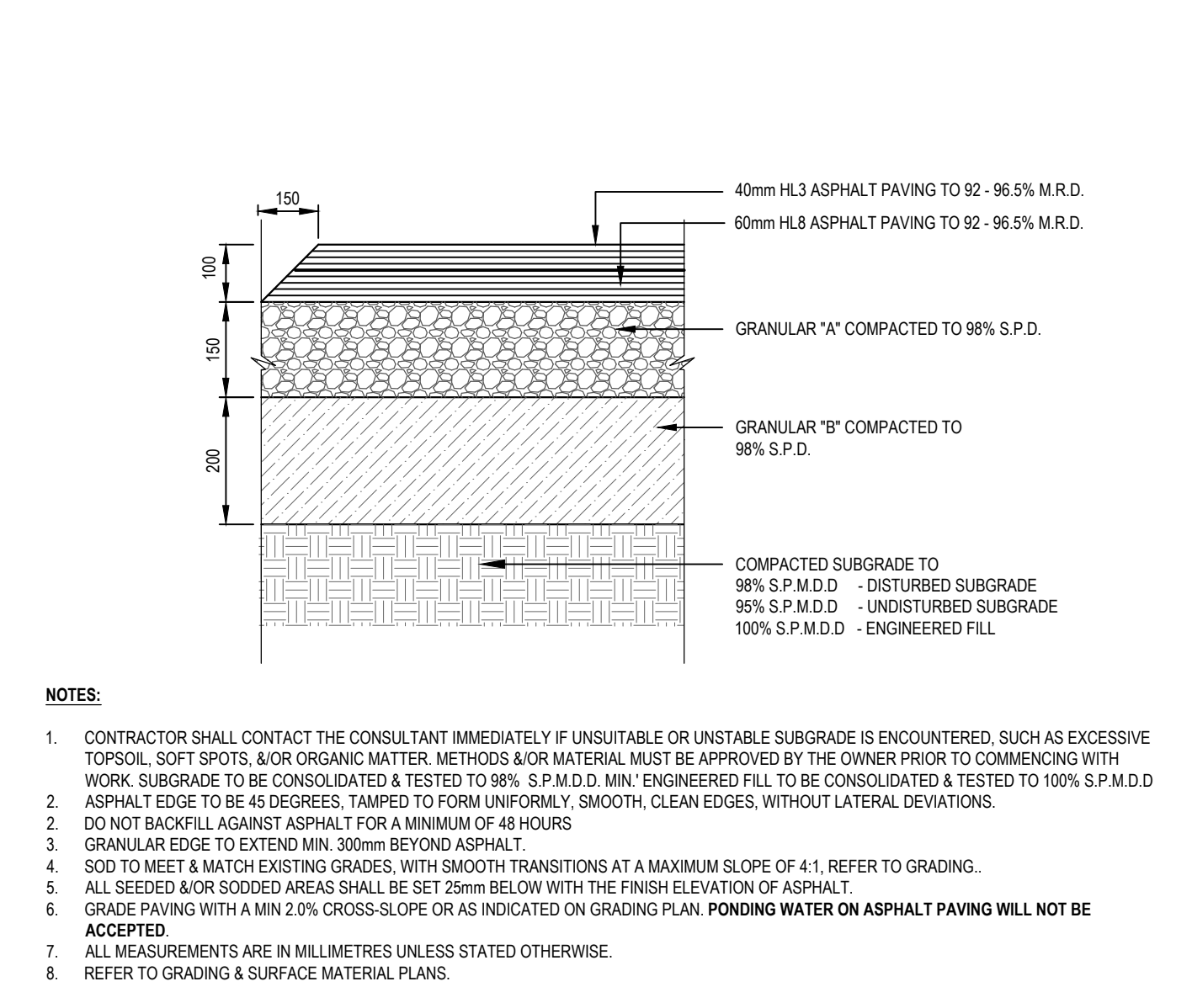
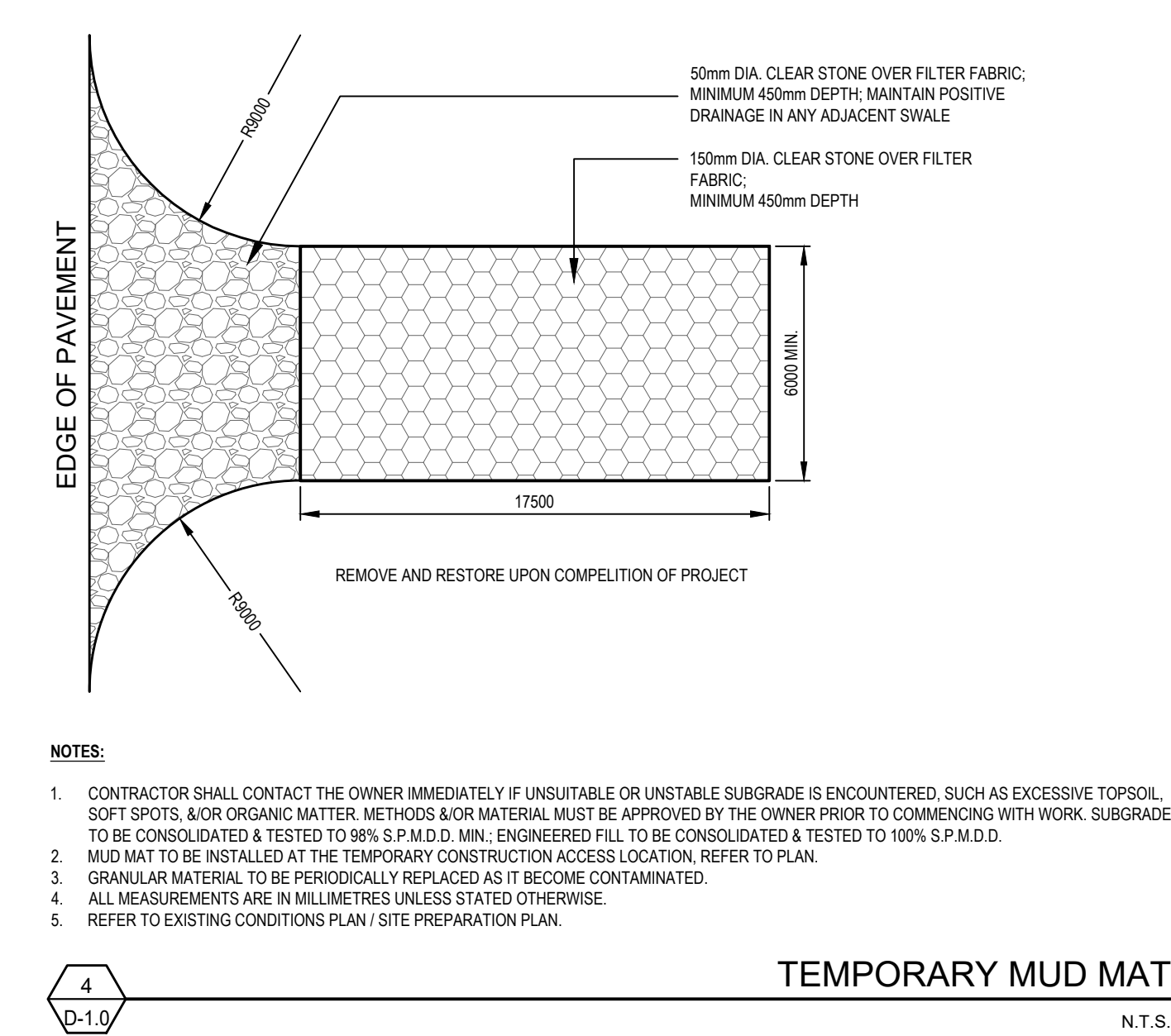
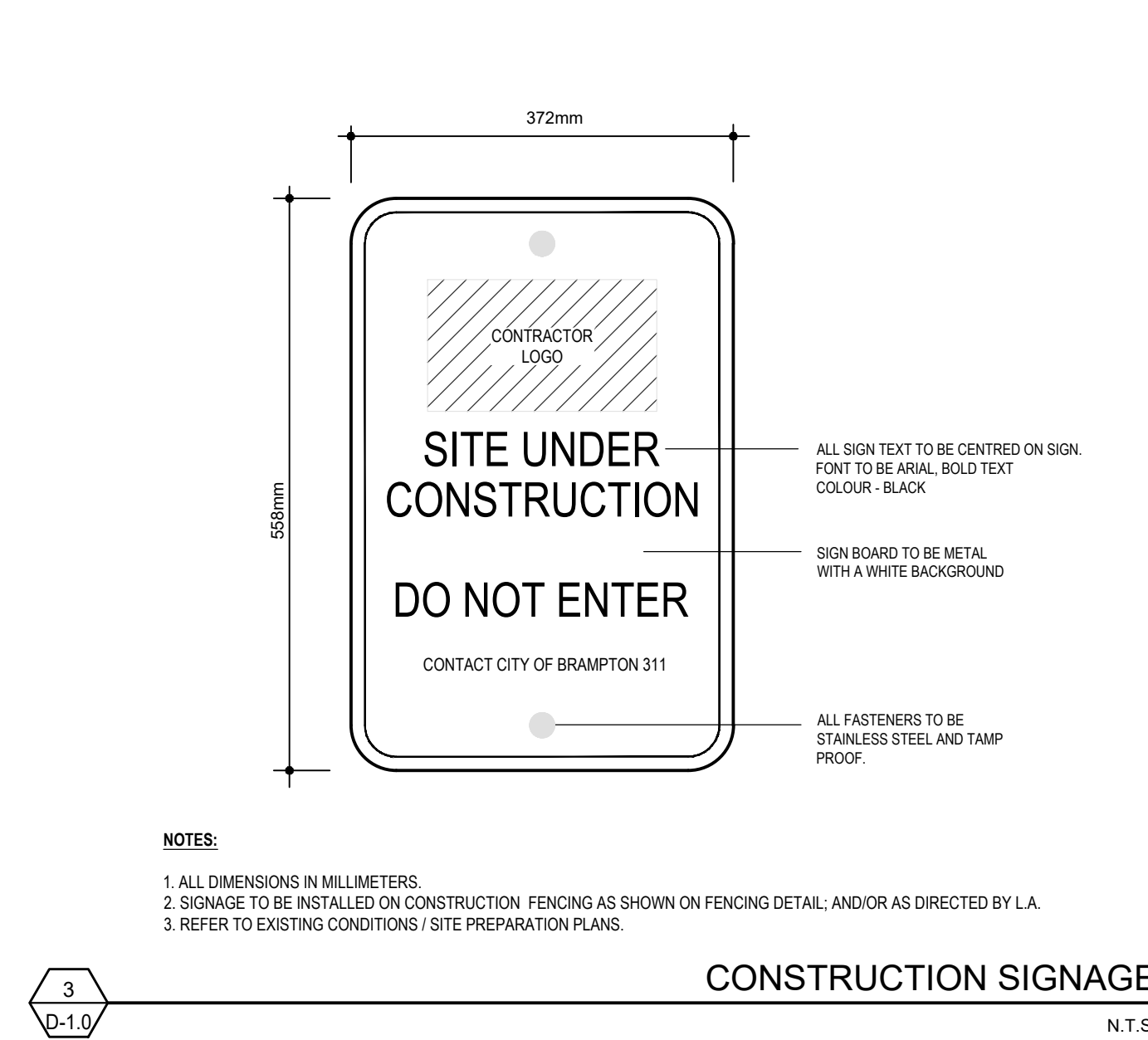
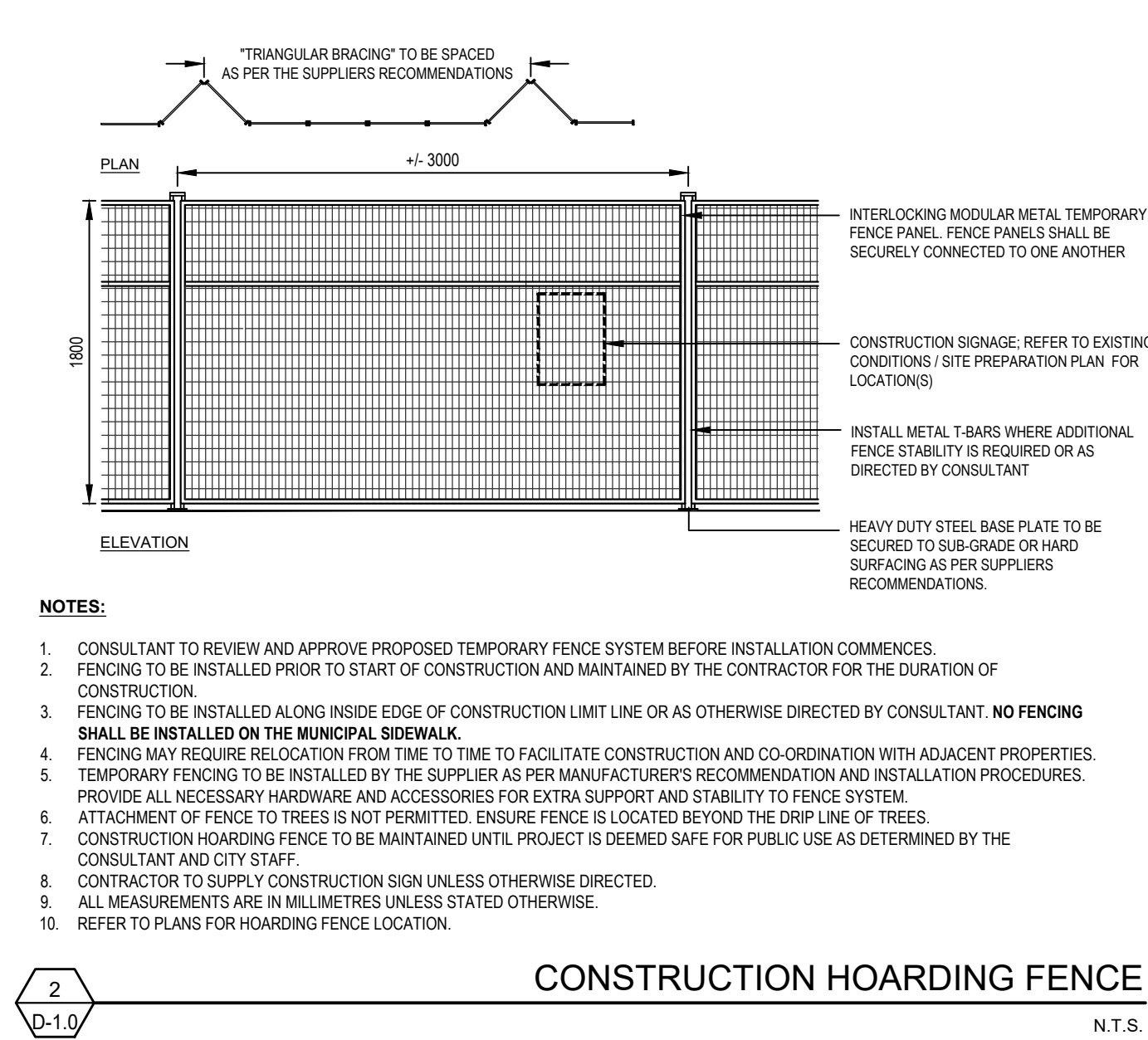
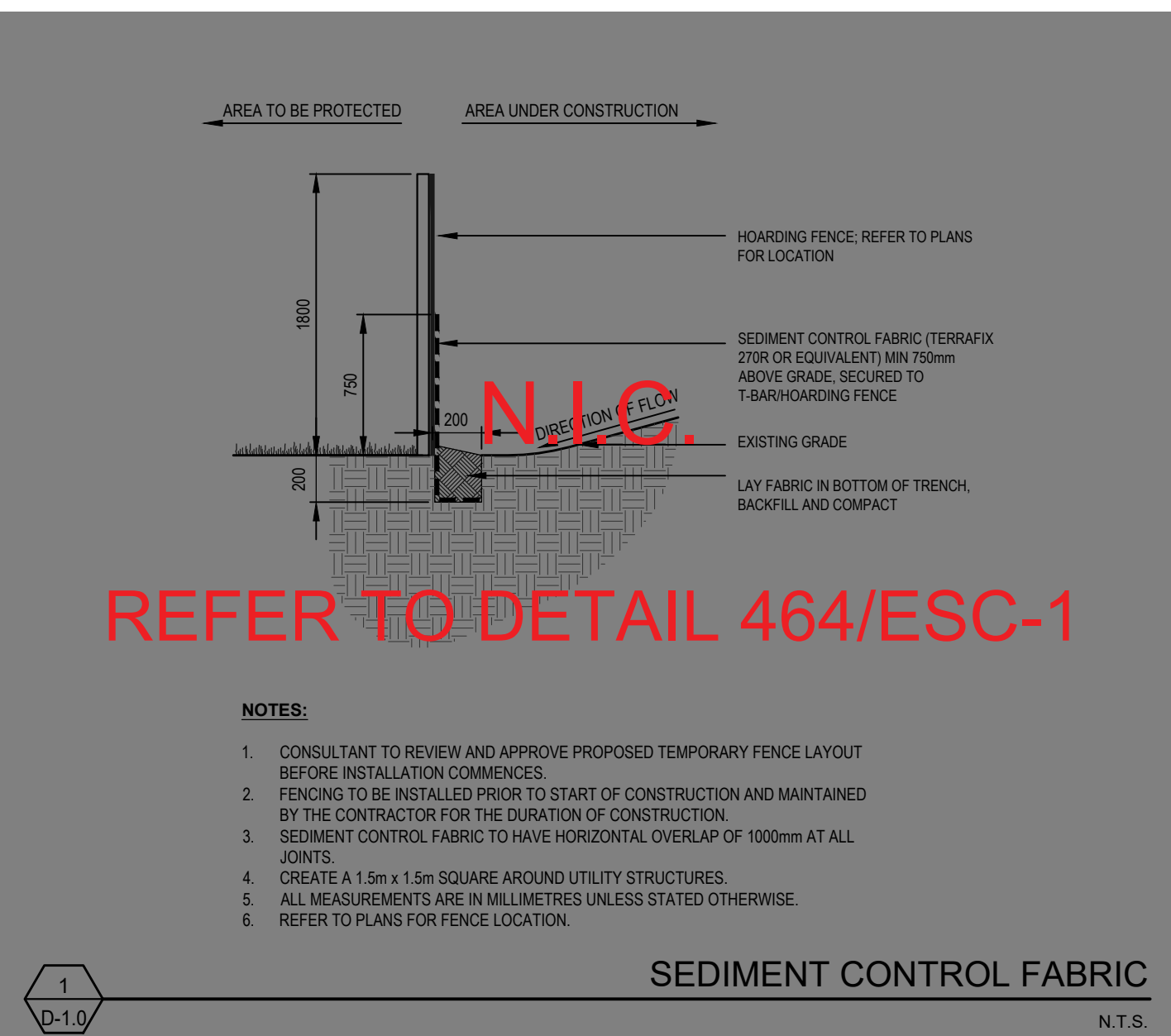
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**CITY OF BRAMPTON**

city file number  
**SPA-2024-0106**

drawing title  
**ARTIFICIAL TURF  
 BASE PAVING PLAN**

drawn by AN	reviewed by PG	drawing number: <b>L-1.1</b>
date NOV 2024	scale 1:400	





no.	revision	date	by
R7	Issued for Addendum No. 2	2025-01-18	DP
R6	Re-issued for Tender	2024-12-06	DP
R5	Issued for Tender	2024-11-13	DP
R4	Re-issued for SPA	2024-11-08	DP

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project number  
**2023-093**

**landscape planning**  
LANDSCAPE ARCHITECTS

Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2.  
Tel. 905.669.8838, www.landscapepln.ca

project title  
**CASSIE CAMPBELL COMMUNITY CENTRE FIELD HOCKEY DOME**  
1060 Sandalwood Pkwy W., Brampton ON, L7A 2Z8

client  
**CITY OF BRAMPTON**

city file number  
**SPA-2024-0106**

drawing title  
**DETAILS**

drawn by  
AN

reviewed by  
PG

date  
NOV 2024

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**D-1.0**





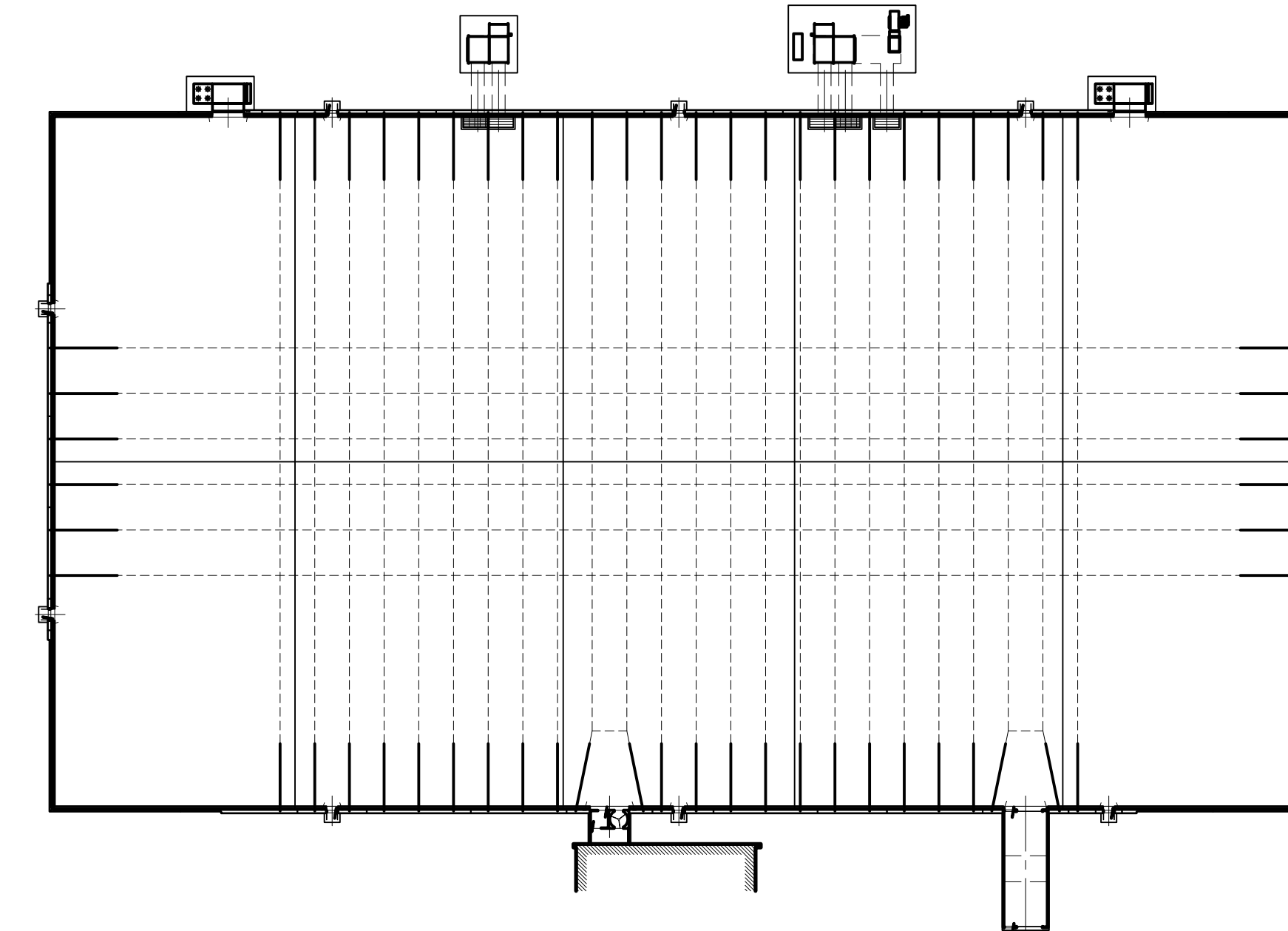
THE FARLEY GROUP  
AIR-SUPPORTED STRUCTURES

CASSIE CAMPBELL COMMUNITY CENTRE DOME  
1060 SANDALWOOD PKWY W.  
BRAMPTON, ON L7A 2Z8

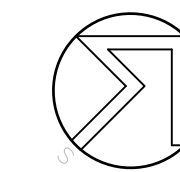
PROJECT:  
FOUNDATION & ANCHORAGE DRAWINGS FOR  
267'x482' AIR SUPPORTED STRUCTURE

INDEX OF DRAWINGS

- C-1 COVER SHEET
- AS1 FLOOR PLAN LAYOUT AND GENERAL NOTES
- AS2 ELEVATIONS
- AS3 GRADE BEAM DETAILS (TYP. CAST USING FORMWORK)
- AS4 CONSTRUCTION JOINT AND EXIT DOOR DETAILS
- AS5 COMBO UNIT DETAILS
- AS6 VEHICLE AIRLOCK DETAILS
- AS7 MECHANICAL PAD #1 DETAILS
- AS8 MECHANICAL PAD #1 VAULT DETAILS (1)
- AS9 MECHANICAL PAD #1 VAULT DETAILS (2)
- AS10 MECHANICAL PAD #2 AND MECHANICA VAULT DETAILS (1)
- AS11 MECHANICAL PAD #2 VAULT DETAILS (2)
- AS12 TYPICAL A/C RECIRC UNIT PAD #1 DETAILS
- AS13 TYPICAL A/C RECIRC UNIT PAD #2 DETAILS
- AS14 AIR DUCT, UNDERGROUND VAULT GRATE AND HANG LIGHT DETAILS
- AS15 INTERIOR PLAN LAYOUT
- AS16 OUTLET LOCATION PLAN
- AS17 MECHANICAL AND ELECTRICAL DIAGRAMS
- AS18 MECHANICAL AND ELECTRICAL NOTES
- AS19 ESTIMATED LIGHT LEVELS FOR INTERIOR LIGHTING (LED FIXTURES)
- AS20 ESTIMATED LIGHT LEVELS FOR EMERGENCY AREA LIGHTING (LED FIXTURES)



KEY PLAN



REVISION TABLE		
NO.	DATE: (DD/MM/YY)	REVISION NOTES:
1	25/04/2024	UPDATED REBAR AND ANCHOR NOTES
2	16/10/2024	UPDATED CITY FILE NUMBER & INTERIOR LAYOUT
3	29/10/2024	REMOVED INTERIOR SPORTS LAYOUT DIMENSIONS
4	14/01/2025	UPDATED DRAWING SET TO 12" GRADE BEAM CUT-OUTS, CHANGED EXITS TO BRACING, ADDED COVER SHEET WITH REVISION & BOM TABLES (ADDENDUM #2)

BOM TABLE			
ITEM NO.	ITEM NAME	DESCRIPTION	QTY.
I.	SINGLE EXIT DOOR	40" WIDE OPEN WITH BRACING (FOR EMERGENCY EXIT)	10
II.	COMBO UNIT	ONE 3-LEAF REVOLVING & ONE AUTO PAL WITH SLOPE ROOF FRAME	1
III.	VAL	10' x 12' x 45" WITH MAN DOORS	1
IV.	CABLES	1 1/8" DIA. CABLES (BARREL + LONGITUDINAL)	24+6
V.	FURNACE	2.5 MBTU HEAT INFLATION UNIT	2
VI.	STANDBY FAN	BI-542 INFLATION FAN	1
VII.	GENERATOR	GENERAC SG080- 80 KW	1
VIII.	A/C	50 TONNAGE CAPCAITY	2
IX.	TRANSFER SWITCH	TRANSFER SWITCH (FOR GENERATOR & LIGHTS)	2
X.	CONTROL PANEL	REMOTE PANEL	1
XI.	EXIT SIGNS	EMERGENCY EXIT SIGNAGE	10
XII.	HANGING LIGHTS	LED HANG LIGHT FIXTURES	96



REVIEWED AND STAMPED BY ARCHITECT FOR THE FOLLOWING LIFE SAFETY FEATURES:  
1- FIRE EXITS, FIRE ACCESS ROUTES AND SEPARATION OF AIR SUPPORTED STRUCTURE FROM ADJACENT STRUCTURES.  
2- BARRIER FREE DESIGN REQUIREMENTS FOR ENTRANCES, EXITS AND PATH OF TRAVEL  
3- OCCUPANT LOAD BASED ON NUMBER OF EXITS AND NUMBER OF PLUMBING FIXTURES (WASHROOMS) AVAILABLE IN THE ADJACENT WASHROOM BUILDING.

4	14/01/2025	SEE PAGE C-1 FOR REVISION NOTES
3	29/10/2024	SEE PAGE C-1 FOR REVISION NOTES
2	16/10/2024	SEE PAGE C-1 FOR REVISION NOTES
1	25/04/2024	SEE PAGE C-1 FOR REVISION NOTES

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R. J. Burnside & Associates Limited  
292 Speedvale Avenue West, Unit 20, Guelph, Ontario  
Telephone (519) 823-4895 Fax (519) 836-5477  
www.rjburnside.com

LICENCED PROFESSIONAL ENGINEER  
W. LANKINEN  
15/01/2025  
STRUCTURAL ONLY

**THE FARLEY GROUP**  
Farley Manufacturing Inc.  
A division of The Farley Group  
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Puslinch, ON, Canada N0B 2J0  
Phone: 1-888-445-3223  
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Email: man@thefarleygroup.com  
Creative Space Solutions

CLIENT:  
CASSIE CAMPBELL  
COMMUNITY CENTRE DOME  
CITY FILE #: SPA-2024-0106

CLIENT ACCEPTANCE  
SIGNATURE:  
DATE  
ACCEPTED:

PROJECT:  
AIR SUPPORTED STRUCTURE  
FOR MULTI-USE  
(267'-0" x 482'-0" x 81'-0")

LOCATION:  
1060 SANDALWOOD PKWY W.  
BRAMPTON, ON L7A 2Z8

DRAWING:  
COVER SHEET

PROJECT NORTH: DRN BY: C.J.S.  
REVIEWED BY: A.R.R.  
DATE: APRIL 3, 2024  
SCALE: AS SHOWN

PLAN NORTH: PROJ. #: 23-08D  
DRAWING #: C-1  
REV. 04





REVIEWED AND STAMPED BY ARCHITECT FOR THE FOLLOWING LIFE SAFETY FEATURES:  
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CLIENT: CASSIE CAMPBELL  
 COMMUNITY CENTRE DOME  
 CITY FILE #: SPA-2024-0106

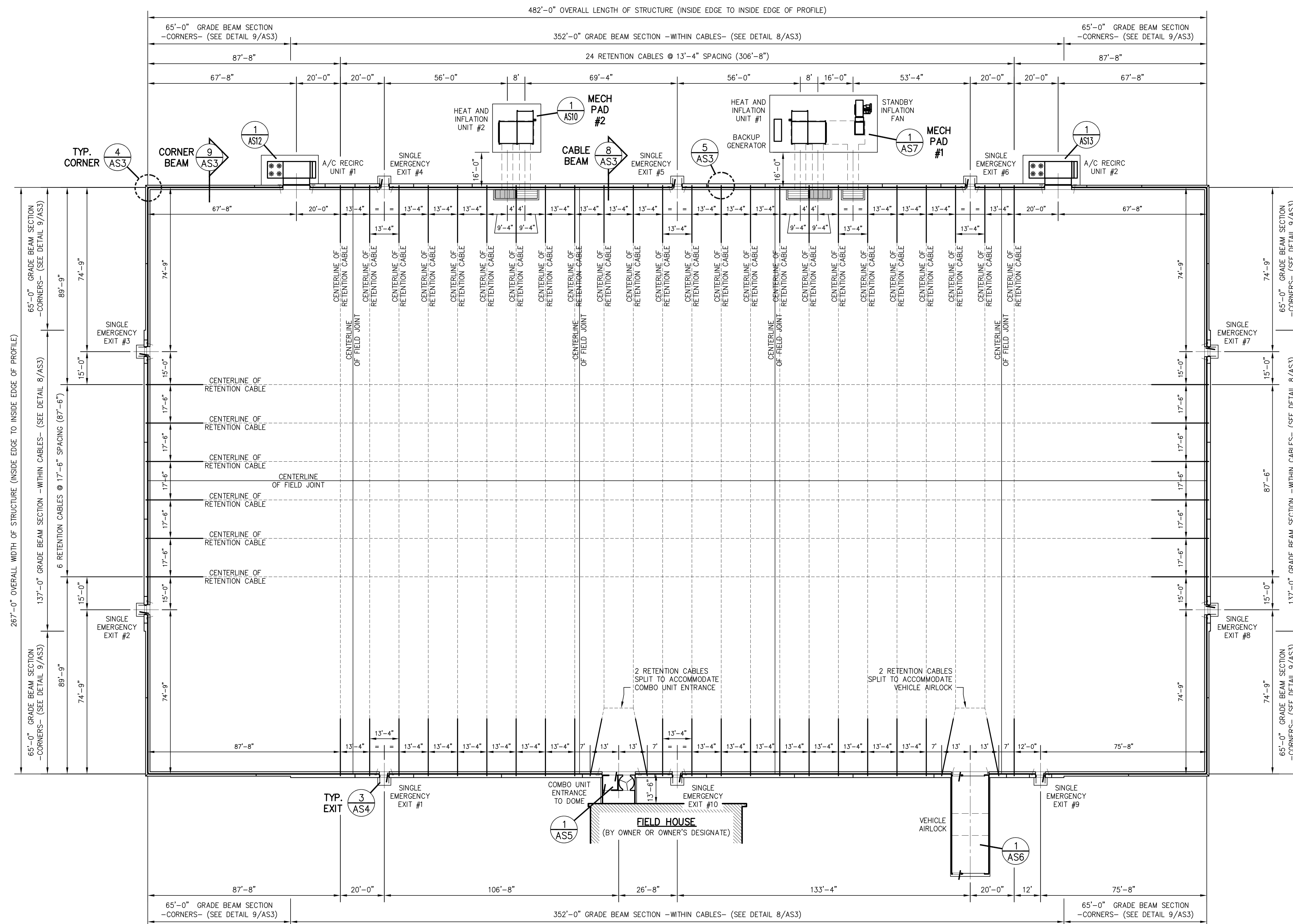
CLIENT ACCEPTANCE SIGNATURE:  
 DATE ACCEPTED:  
 PROJECT:

AIR SUPPORTED STRUCTURE FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")

LOCATION: 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

DRAWING: FLOOR PLAN LAYOUT AND GENERAL NOTES

PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING #: AS1  
 REV. 04



1 ASI FLOOR PLAN LAYOUT OF STRUCTURE (EXTERIOR VIEW)  
 SCALE 1/24"=1'-0"

**GENERAL NOTES:**

**1. DESIGN LOADS:**  
 THE BUILDING TYPE SHOWN ON THE DRAWINGS IS AN AIR SUPPORTED STRUCTURE IN WHICH THE FABRIC ENVELOPE IS SUPPORTED BY INTERNAL AIR PRESSURE. THE INTERNAL PRESSURE IS MONITORED DAILY BY THE OWNER AND IS INCREASED PRIOR TO INCLEMENT WEATHER CONDITIONS (I.E. HIGH WINDS OR SNOWFALLS) AS DIRECTED IN THE OWNER'S MANUAL, IN ORDER TO PROVIDE MORE RESISTANCE TO ANY LOADING DUE TO WEATHER.  
 DESIGN WIND LOADS: q 1/50 = 0.44 kPa (9.19 PSF), PRESSURE DISTRIBUTION AS PER S367-12  
 INTERNAL DESIGN AIR PRESSURES:  
 - MINIMUM: 0.249 kPa (5.200 PSF, 1.00" w.c.) (NORMAL OPERATION CONDITIONS)  
 - MAXIMUM: 0.50 kPa (10.44 PSF, 2.01" w.c.) (DURING INCLEMENT WEATHER)  
 - EMERGENCY STANDBY SYSTEM: 0.373 kPa (7.800 PSF, 1.50" w.c.) (IN THE EVENT OF POWER FAILURE)  
 DESIGN SNOW LOADS: DESIGNED TO "MANUAL METHOD OF SNOW REMOVAL" AS PER S367-12, ANNEX B  
 - DOME DESIGNED TO SUPPORT A MAXIMUM SNOWFALL OF 0.40m (16") OF FRESH SNOW AT MAXIMUM DESIGN PRESSURE  
 - SNOW TO BE MANUALLY REMOVED BY OWNER IF:  
 1) SNOW REMAINS ON THE DOME FOR MORE THAN 3 DAYS & IS MORE THAN 0.15m (6") DEEP  
 2) SNOW EXCEEDS 0.30m (12") IN DEPTH  
 - SNOW TO BE REMOVED FROM AROUND THE ENTIRE, BASELINE PERIMETER OF DOME BY OWNER AFTER EVERY SNOWFALL.  
 EARTHQUAKE LOADING: WIND LOAD GOVERNS  
 DEAD LOAD: SELF WEIGHT OF DOME

**2. STRUCTURAL:**  
 ALL WORK SHALL CONFORM TO THE APPLICABLE CODES, LOCAL REGULATIONS AND AUTHORITIES HAVING JURISDICTION.  
 THE CONSULTANT SHALL BE GIVEN 48 HOURS NOTICE BY THE CONTRACTOR FOR ANY REQUIRED INSPECTION OF FOUNDATION (GRADE BEAM), REINFORCING STEEL, AND FRAMING.  
 THIS SET OF DRAWINGS SUPERSEDES AND REPLACES ALL PREVIOUS DRAWINGS.  
 ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. NO CHANGES SHALL BE MADE WITHOUT WRITTEN APPROVAL BY THE ENGINEER.  
 ALL SURFACES OF EXTERIOR STRUCTURES DIRECTLY EXPOSED TO THE INTERIOR OF THE AIR STRUCTURE (I.E. BUILDING CONNECTIONS) SHALL BE DESIGNED TO WITHSTAND A MINIMUM OF 0.958 kPa [20 PSF] OF AIR PRESSURE.  
 THIS AIR SUPPORTED STRUCTURE HAS BEEN DESIGNED USING CSA DOCUMENT "S367-12 AIR-SUPPORTED STRUCTURES", ASI DOCUMENT "ASI-77 AIR STRUCTURE DESIGN AND STANDARDS MANUAL", ONTARIO BUILDING CODE & NATIONAL BUILDING CODE OF CANADA AS GUIDES AND ASSUMES A DESIGN WIND PRESSURE OF 0.44 kPa (1/50, BASED ON DATA FOR BRAMPTON, ON) AS STATED IN THE ONTARIO BUILDING CODE.

**3. EXCAVATION AND BACKFILL:**  
 SOIL CONDITIONS SHALL BE REPORTED TO THE ENGINEER AT THE TIME OF EXCAVATION AND AT HIS/HER DISCRETION THE ENGINEER MAY REQUEST FURTHER SOILS INVESTIGATION.  
 REMOVE ALL TOP SOIL AND DELETERIOUS MATERIAL FROM BENEATH ALL STRUCTURAL COMPONENTS.  
 USE ONLY ENGINEER APPROVED COMPACTED FILL TO RAISE GRADES WHERE REQUIRED BENEATH STRUCTURES.  
 COMPACT ALL GRANULAR FILL 98% SPND. COMPACTION TESTING SHALL BE CARRIED OUT BY A QUALIFIED GEOTECHNICAL CONSULTANT PRIOR TO INSTALLATION OF ANY STRUCTURES SUPPORTED ON FILL.  
 SLOPE ALL GRADES AWAY FROM THE AIR STRUCTURE AND ITS COMPONENTS.  
 PROTECT EXCAVATION AND GRADE BELOW SLABS FROM FROST PENETRATION BY PROPER USE OF STRAW, THERMAL BLANKETS AND/OR TARPS.  
 APPROVAL TO POUR CONCRETE DOES NOT IMPLY ASSURANCE OF ASSUMED SUBGRADE CONDITIONS USED IN THE STRUCTURAL DESIGN OF THE FOUNDATIONS (GRADE BEAMS) OF THIS PROJECT.

**4. CONCRETE:**  
 ALL CONCRETE WORK SHALL COMPLY WITH CSA-A23.1, CAN3-A23.2 AND CAN3-A23.3.  
 THE ULTIMATE 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE NOT LESS THAN 25 MPa (3500 psi), 5% - 8% AIR ENTRAINMENT IN ALL CASES, UNLESS OTHERWISE SPECIFIED.  
 REINFORCING STEEL TO BE DEFORMED BAR WITH MINIMUM YIELD STRENGTH OF 400 MPa (60,000 psi).  
 APPROPRIATE MEASURES SHALL BE TAKEN TO PROTECT CONCRETE FROM EXCESSIVE EVAPORATIVE WATER LOSS AND ENSURE PROPER CURING.  
 CONCRETE TESTING SHALL BE PERFORMED BY A CSA APPROVED TESTING LABORATORY.  
 USE HIGH FREQUENCY VIBRATION TO PLACE ALL CONCRETE. IT IS VERY IMPORTANT TO ENSURE THAT ALL VOIDS ARE FILLED AND PROPER BOND IS ACHIEVED BETWEEN THE CONCRETE AND EXTRUDED PROFILE (IF PROFILE IS USED).  
 APPROPRIATE MEASURES SHALL BE TAKEN TO PROTECT CONCRETE FROM EXPOSURE TO FREEZING TEMPERATURES FOR AT LEAST SEVEN (7) DAYS FOLLOWING CONCRETE PLACEMENT.  
 UNLESS OTHERWISE SPECIFIED, SEE ARCH. DRAWINGS FOR ALL CONCRETE SURFACE FINISHES.

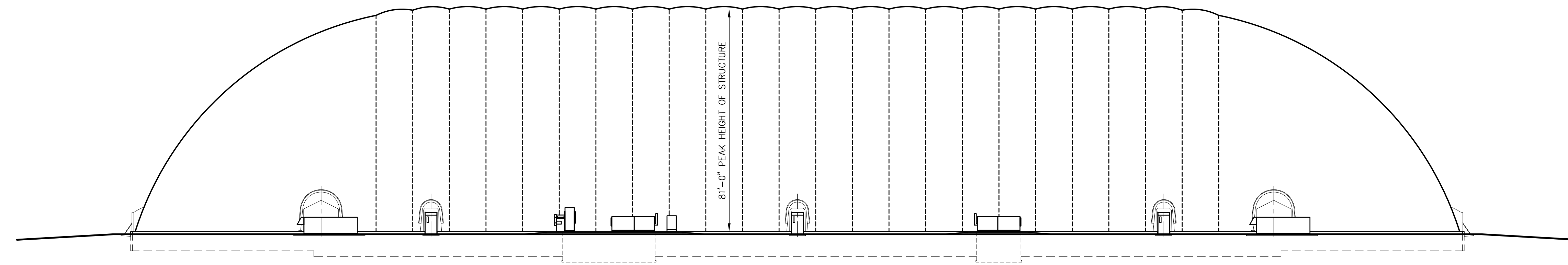
SPUCE LAP LENGTHS AND BEND RADII SHALL NOT BE LESS THAN:  
 - 16 INCH LAP & 1 1/2" BEND RADIUS FOR 10M (#4),  
 - 24 INCH LAP & 2" BEND RADIUS FOR 15M (#5),  
 - 30 INCH LAP & 2 1/2" BEND RADIUS FOR 20M (#6),  
 - 38 INCH LAP & 3" BEND RADIUS FOR 25M (#7),  
 - 46 INCH LAP & 5 1/2" BEND RADIUS FOR 30M (#8).  
 ENSURE MINIMUM COVER FOR ALL REBAR, AS NOTED IN BEAM DETAILS.  
 MAXIMUM DESIGN LOADS FOR UPLIFT ON THE AIR STRUCTURE REQUIRE THAT FULL CONCRETE STRENGTH BE ACHIEVED BEFORE EXTRUDED PROFILE OR OTHER ATTACHMENT SYSTEM IS SUBJECTED TO LOADING.  
 TYPICAL GRADE BEAM IS TRENCHED (NOT FORMED) AND MONOLITHIC CAST AS A SINGLE POUR TO THE TOP SURFACE WHERE THIS IS NOT POSSIBLE. THE CERTIFYING ENGINEER SHALL BE NOTIFIED IN ADVANCE TO PROVIDE DETAILING OF A SUITABLE ALTERNATIVE.

**5. DIMENSIONING:**  
 ALL GRADE BEAM DIMENSIONS ARE TO BE REFERENCED FROM THE INSIDE EDGE OF PROFILE TO ENSURE PROPER FIT OF AIR STRUCTURE MEMBRANE.

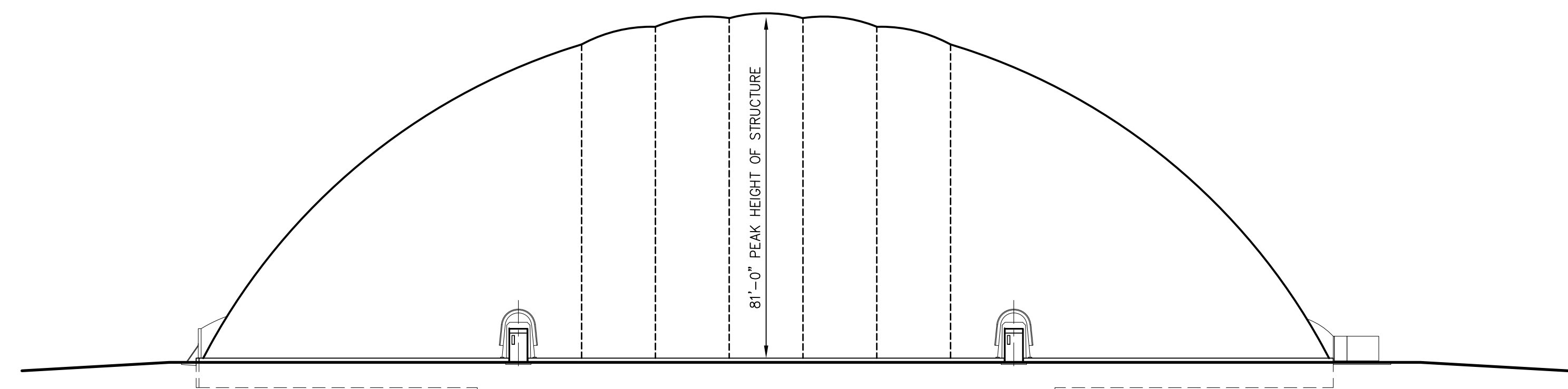




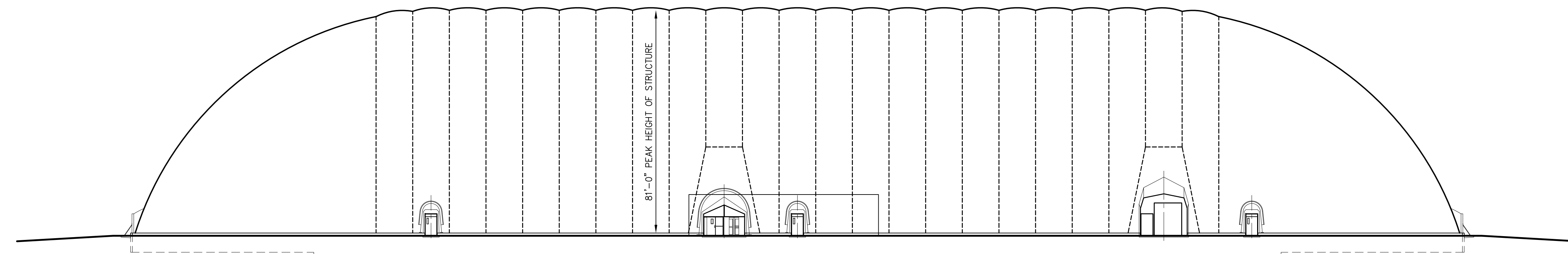
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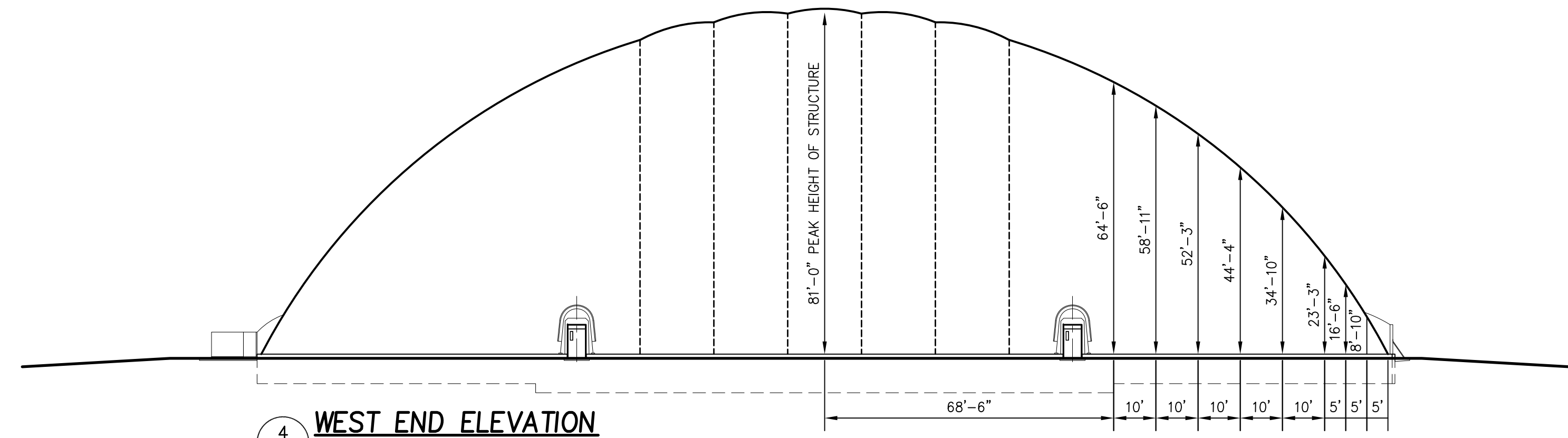
1 NORTH SIDE ELEVATION  
 AS2 SCALE 1/24"=1'-0"



2 EAST END ELEVATION  
 AS2 SCALE 1/24"=1'-0"



3 SOUTH SIDE ELEVATION  
 AS2 SCALE 1/24"=1'-0"



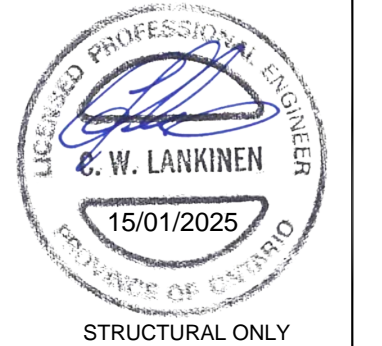
4 WEST END ELEVATION  
 AS2 SCALE 1/24"=1'-0"

4	14/01/2025	SEE PAGE C-1 FOR REVISION NOTES
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CLIENT:  
**CASSIE CAMPBELL  
 COMMUNITY CENTRE DOME  
 CITY FILE #: SPA-2024-0106**

CLIENT ACCEPTANCE  
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**AIR SUPPORTED STRUCTURE  
 FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

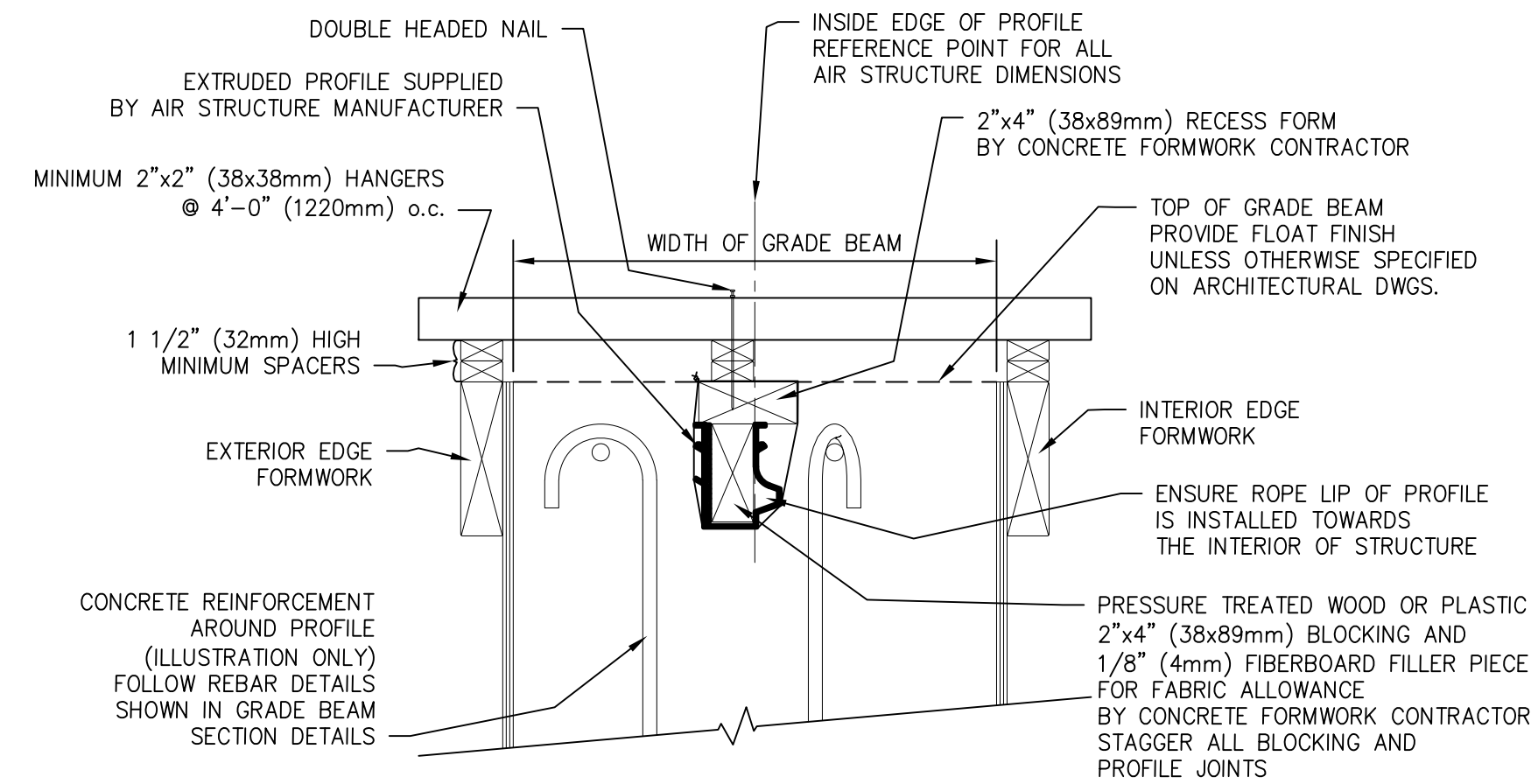
LOCATION:  
**1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8**

DRAWING:  
**ELEVATIONS**

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	APRIL 3, 2024
	SCALE:	AS SHOWN
PLAN NORTH:	PROJ. #:	23-08D
	DRAWING #:	AS2

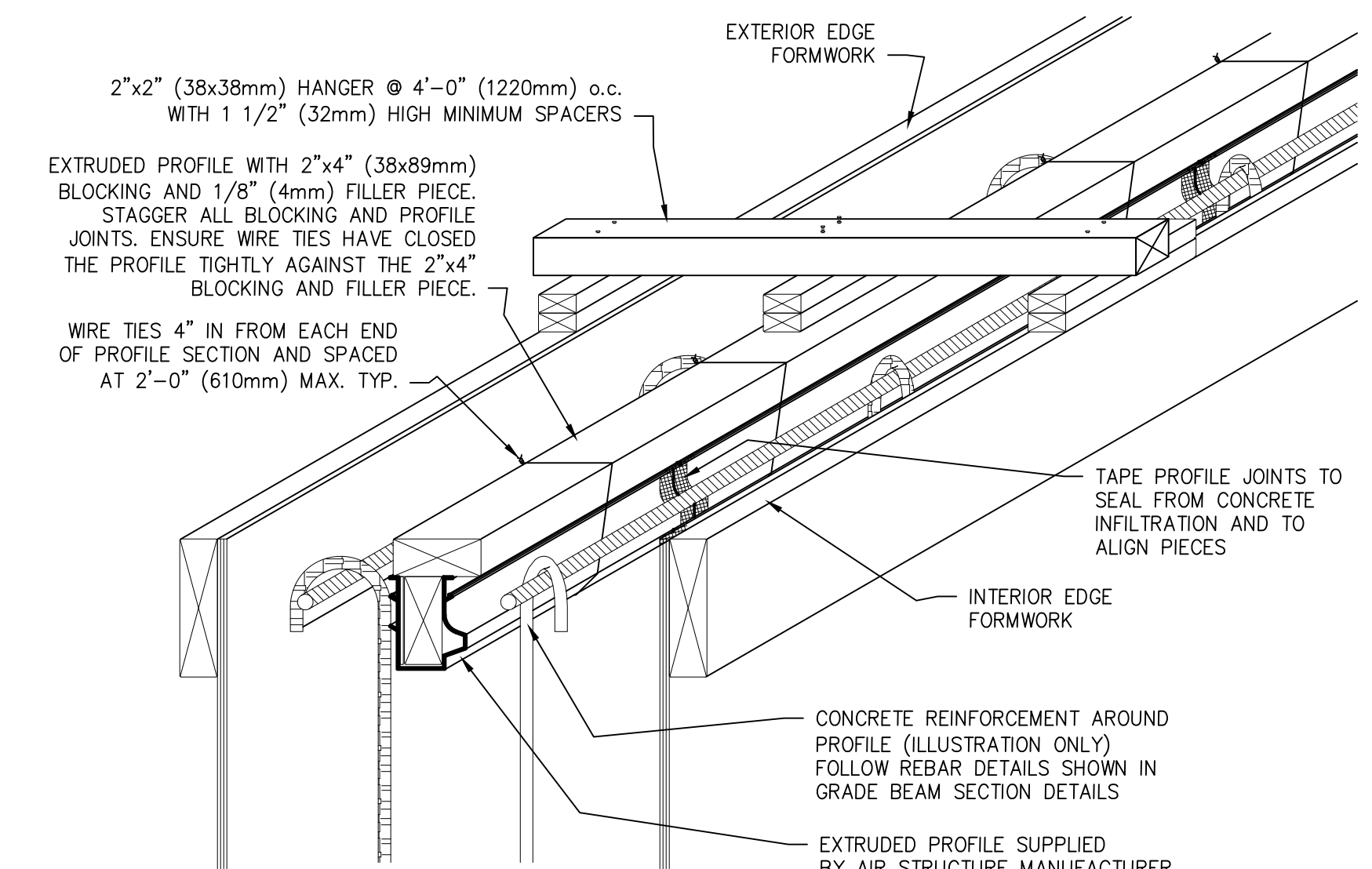
**AS2**  
 REV. 04



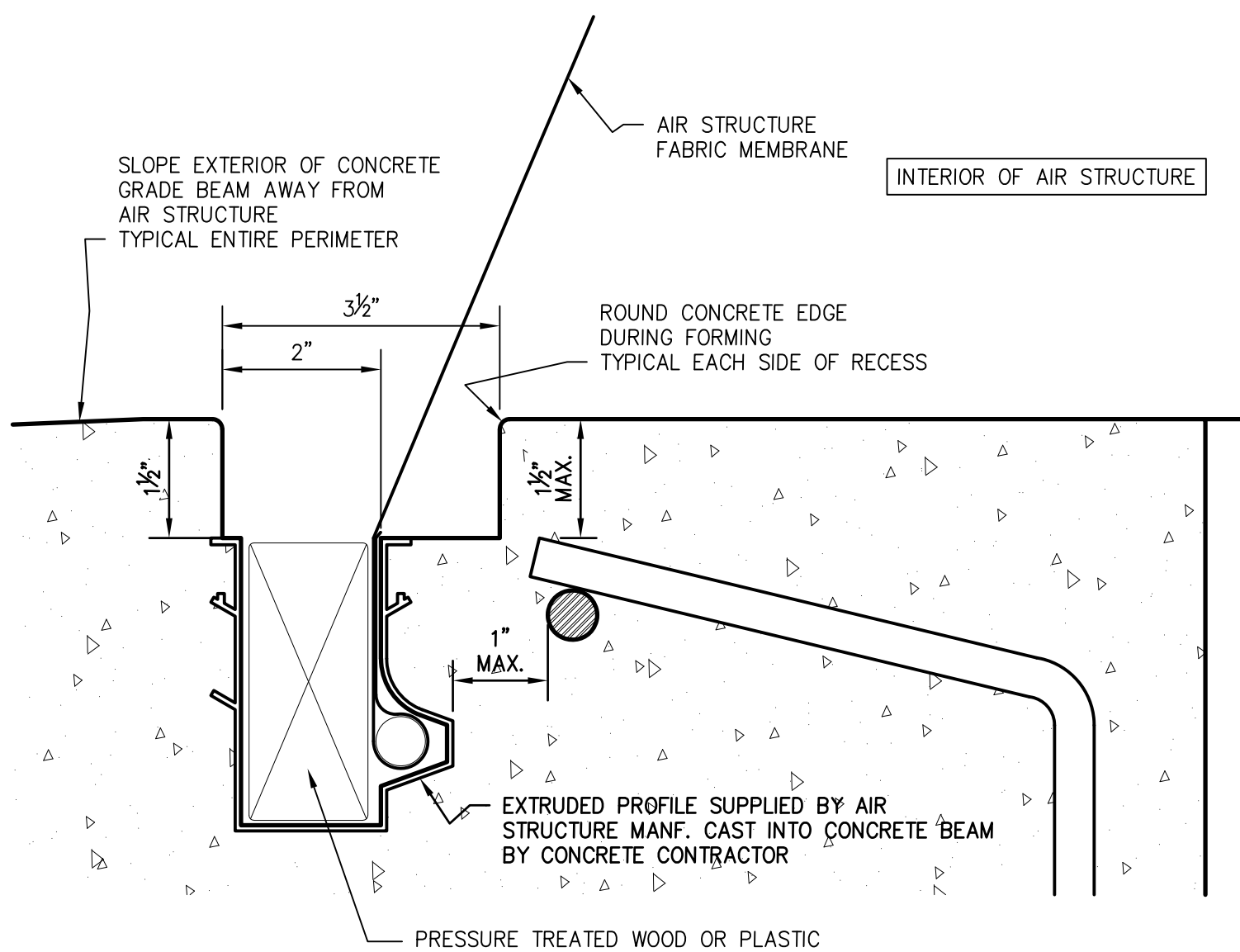


**PRESSURE TREATED WOOD OR PLASTIC 2"x4" (38x89mm) BLOCKING USED FOR PROFILE INSTALLATION TO REMAIN FOR AIR STRUCTURE RETENTION BY CONCRETE FORMWORK CONTRACTOR**

**1 AS3 PROFILE INSTALLATION DETAIL (TYPE 'B') NOT TO SCALE**



**2 AS3 TYPICAL FORMING DETAIL FOR GRADE BEAM NOT TO SCALE**



**3 AS3 DETAIL OF REINFORCEMENT PLACEMENT AT PROFILE NOT TO SCALE**

**GRADE BEAM INSTALLATION:**

**NOTE: THIS GUIDE IS PREPARED TO ASSIST THOSE WITH LEGITIMATE CONSTRUCTION EXPERIENCE. IT IS NOT A TOTALLY COMPREHENSIVE INSTRUCTION MANUAL FOR THOSE UNFAMILIAR WITH STANDARD CONSTRUCTION INDUSTRY PRACTICES.**

**PART 1. BEAM CAST USING FORMWORK:**

IN LOOSE OR UNSTABLE SOILS A TRENCH WILL HAVE TO BE EXCAVATED WITH 45° SIDE SLOPES. THE BEAM CAN THEN BE FORMED AND POURED. AFTER A MINIMUM OF 24 HOURS THE FORMWORK CAN BE REMOVED AND BACKFILL INSTALLED. NOTE THAT WHEN BACKFILLING, PLACE EXCAVATED MATERIAL EQUALLY ON BOTH SIDES OF THE BEAM. BACKFILL IN 8" (200mm) LIFTS (LAYERS) AND COMPACT THOROUGHLY BEFORE INSTALLING SECOND LIFT.

WHERE POSSIBLE, FORMWORK SHOULD BE INSTALLED IN SUCH A MANNER TO ALLOW SOME CONCRETE TO FLOW UNDERNEATH FORM BOARDS DURING THE POURING PROCESS TO INCREASE SOIL RESISTANCE.

**NOTE:** ANY GRADE BEAM INSTALLATION SHOULD BE UNDERTAKEN ONLY BY EXPERIENCED CONTRACTORS. THE FARLEY GROUP WILL NOT BE HELD RESPONSIBLE FOR ERRORS MADE BY INDIVIDUALS, OR GROUPS UNFAMILIAR WITH STANDARD CONSTRUCTION MATERIALS OR METHODS.

**PART 2. REINFORCING STEEL:**

THE GRADE BEAM IS USED AS BALLAST TO PREVENT UPLIFT OF YOUR AIR STRUCTURE. THE REINFORCING STEEL REQUIREMENTS ARE MINIMUM BUT REQUIRE ACCURATE INSTALLATION NONE THE LESS.

THE USUAL SIZE OF HORIZONTAL REBAR IS 15M (#5). VERTICAL REBAR IS TYPICALLY 10M (#4). PLACING TYPICALLY WILL BE AS SHOWN ON DRAWINGS. STIRRUPS SHOULD BE BENT AS SHOWN WITH THE INSIDE HOOK (I.E. INTERIOR OF STRUCTURE) BEING WITHIN 1" (25mm) OF THE RETENTION PROFILE AND 2" (50mm) FROM TOP OF CONCRETE. WITH ONE HORIZONTAL BAR RUNNING THROUGH THIS HOOK, THE RETENTION CAPACITY OF THE PROFILE IS IMPROVED.

**NOTE:** KEEP REINFORCING STEEL 2" (50mm) AWAY FROM OUTSIDE OF CONCRETE.

**PART 3. RETENTION PROFILE:**

THERE ARE TWO METHODS FOR INSTALLING THE RETENTION PROFILE. THE METHOD TO BE USED FOR THIS PROJECT IS SHOWN IN DETAIL 1/AS3.

METHOD 'A' IS A FLUSH PROFILE (NOT SHOWN) GIVING ONLY 2" (50mm) OF TOP EXPOSED WHEN THE STRUCTURE IS DOWN. THIS METHOD IS SUITABLE FOR SMALLER STRUCTURES UP TO 118" (36m) WIDE AND HARD SURFACE COURTS.

METHOD 'B' IS A RECESSED PROFILE (DETAIL 1/AS3). ADVANTAGES OF THE RECESSED PROFILE INCLUDE INCREASED RETENTION FOR LARGER STRUCTURES AND CONDENSATION DRAINAGE CHANNEL ESPECIALLY GOOD IN CLAY COURT TENNIS STRUCTURES.

BOTH INSTALLATION METHOD PROCEDURES ARE BASICALLY THE SAME.

**NOTE: MAKE SURE THE ROPE EDGE POCKET ON THE SIDE OF THE PROFILE FACES INTO THE STRUCTURE (DETAIL 1/AS3).**

AS THE PROFILE IS MANUFACTURED IN 10' (3m) LENGTHS, 10' (3m) PIECES OF PRESSURE TREATED 2 X 4 STAGGERED ON PROFILE SECTIONS WORKS WELL FOR INSTALLATION.

SECTIONS OF PROFILE PACKED WITH PRESSURE TREATED 2 X 4 AND 1/8" (3mm) MASONITE PACKING ARE WIRED UP TO SPREADERS AT 4' (1220mm) o.c. THE SPREADERS SPAN THE GAP AND HOLD THE TOP EDGE FORMS THE CORRECT DISTANCE APART (DETAIL 2/AS3).

ON METHOD 'A' PROFILE INSTALLATIONS, A STRIP OF DUCT TAPE ALONG THE TOP WILL KEEP CONCRETE OUT AND EASE REMOVAL OF 2 X 4 LATER (NOT SHOWN).

USING FLEXIBLE TIE-WIRE, CLOSE THE PROFILE TIGHTLY AGAINST THE PACKING AND HANG FROM THE SPREADERS. 1/2" (40mm) PACKING BETWEEN SPREADERS AND SIDE FORMS WILL EASE FINISHING OR, ALTERNATIVELY, SPREADERS CAN BE REMOVED WHEN CONCRETE HAS REACHED INITIAL SET TO SPEED FINISHING.

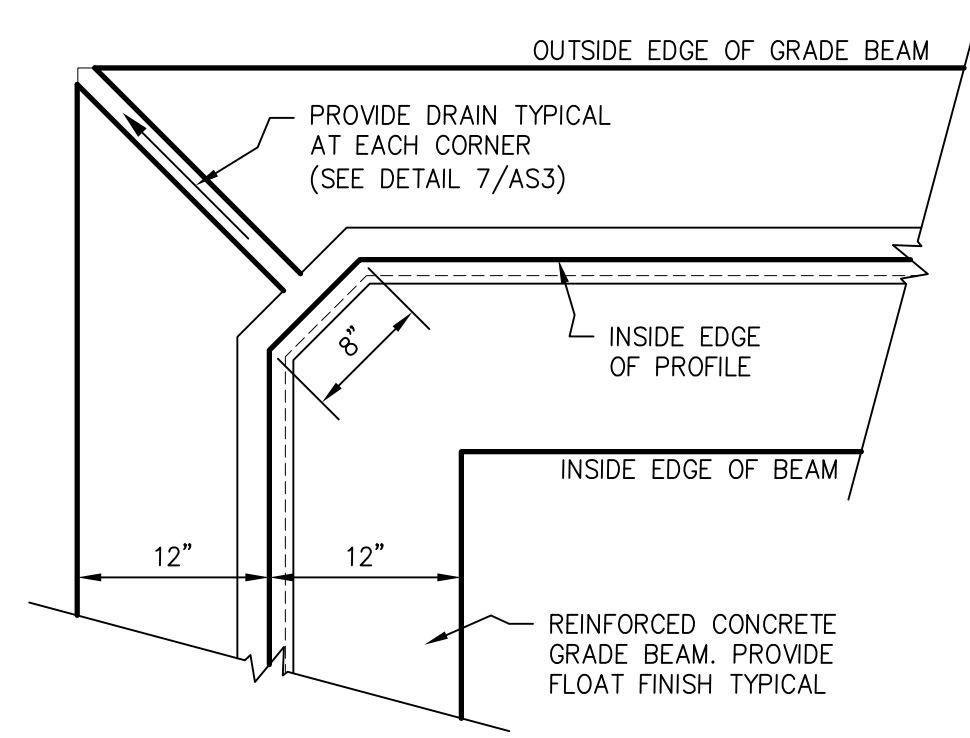
**N.B.: REMOVE PACKING THE DAY AFTER POUR AS MOISTURE WILL SWELL LUMBER, MAKING REMOVAL DIFFICULT.**

WITH THE 'B' METHOD, TWO PRESSURE TREATED 2 X 4'S WILL BE REQUIRED IN ADDITION TO THE 1/8" X 3/4" (3mm X 89mm) FIBREBOARD (MASONITE) PACKING. ALL OTHER INSTRUCTIONS ARE SIMILAR.

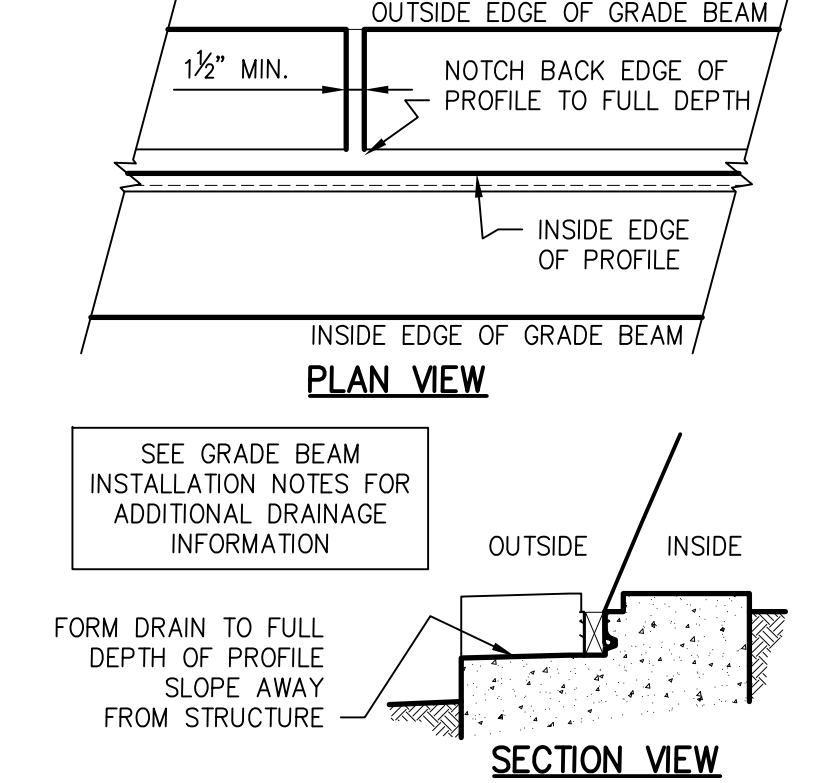
GENERAL DETAIL -- ON EACH CORNER OF THE STRUCTURE WILL BE A 45° ANGLE WHICH EASES INSTALLATION AND RELIEVES FABRIC STRESS (DETAIL 4/AS3). LAY A SHORT PIECE OF PROFILE ACROSS THE CORNER AS SHOWN AND CUT THROUGH INTERSECTIONS WITH A HAND SAW TO HAVE PERFECTLY MATCHING JOINTS.

**PART 4. AIR STRUCTURE DRAINAGE:**

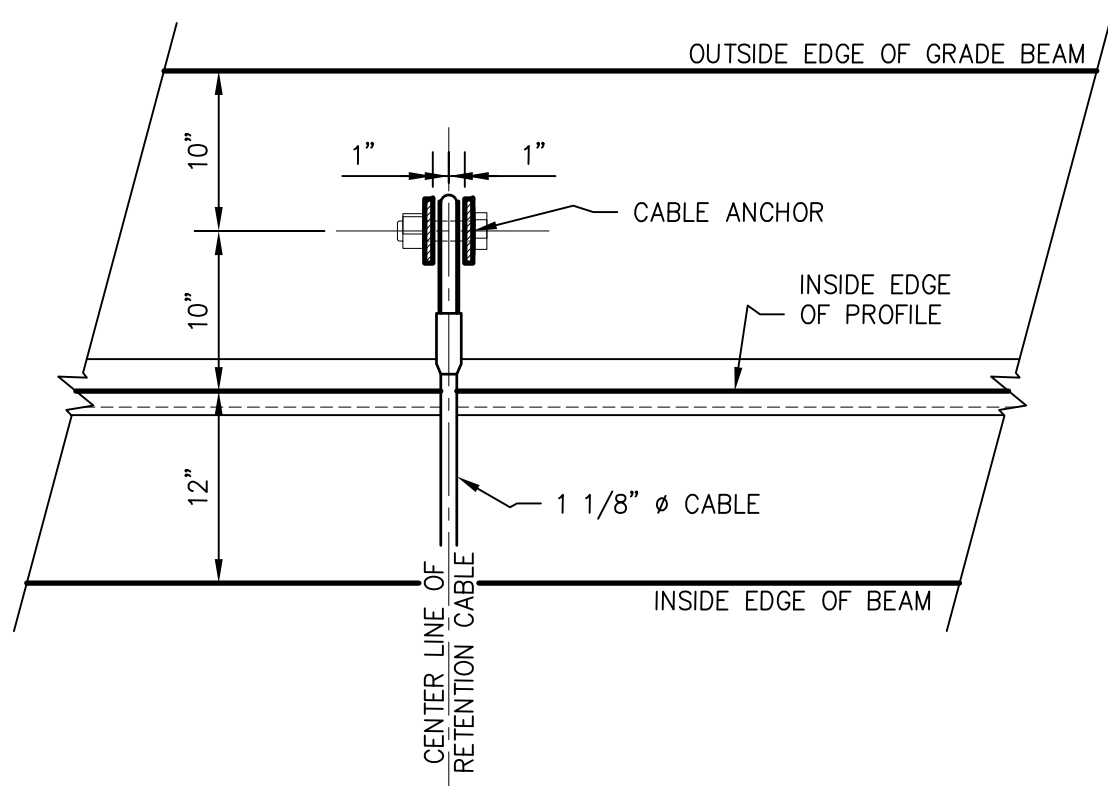
DRAINAGE (WHERE APPLICABLE) -- TO FACILITATE DRAINAGE FROM YOUR PROFILE, ESPECIALLY IN SITUATIONS WHERE TOP OF BEAM IS ABOVE EXTERIOR GRADE, WE RECOMMEND INSTALLING MIN. 1/2" WIDE DRAIN CHANNELS AT EVERY CORNER AND SIMILAR DRAIN CHANNELS SHOULD BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE BEAM AT A SPACING OF 50"-0" MAXIMUM AND EACH SIDE OF DOOR AND MECHANICAL CONCRETE PADS. ENSURE THAT THE PLACEMENT OF PERIMETER DRAINS DOES NOT INTERFERE WITH PADS OR OTHER ELEMENTS SUCH AS CAST-IN CABLE ANCHORS. PROVIDE A MINIMUM DISTANCE OF 3"-0" FROM ANY INTERFERING ELEMENTS.



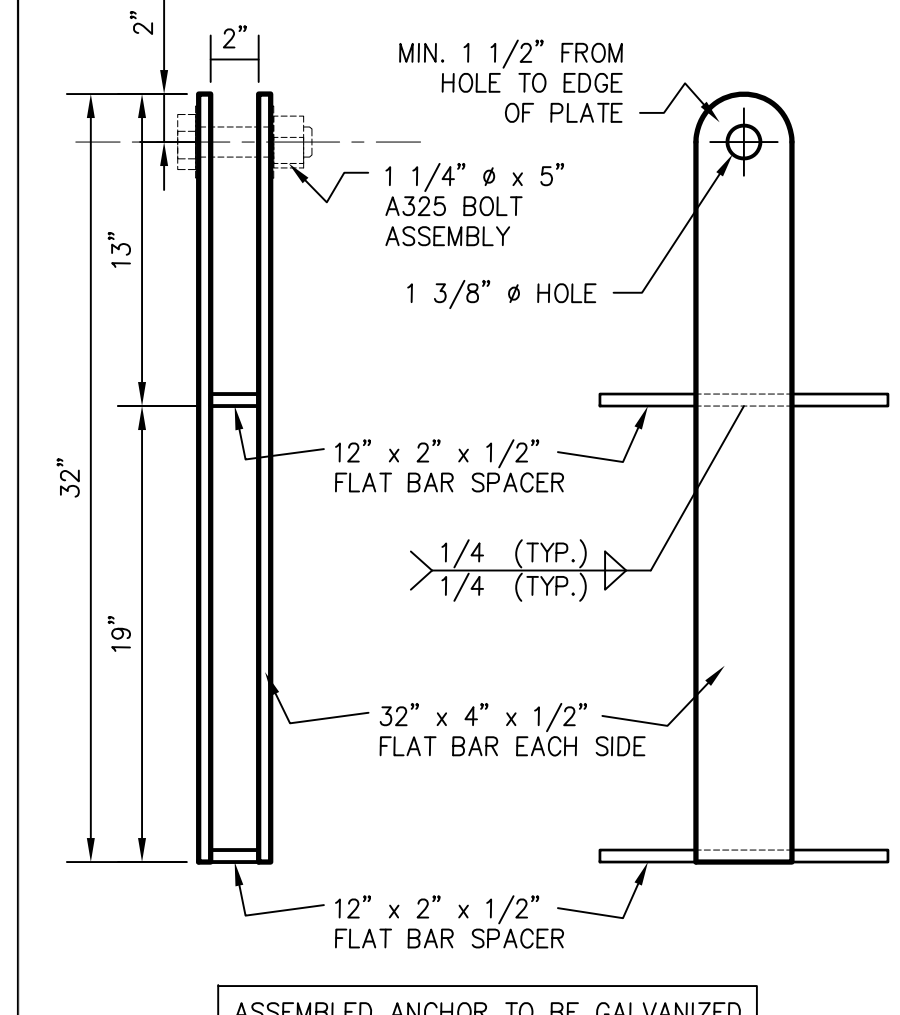
**4 AS3 TYPICAL BEAM CORNER DETAIL SCALE 1" = 1'-0"**



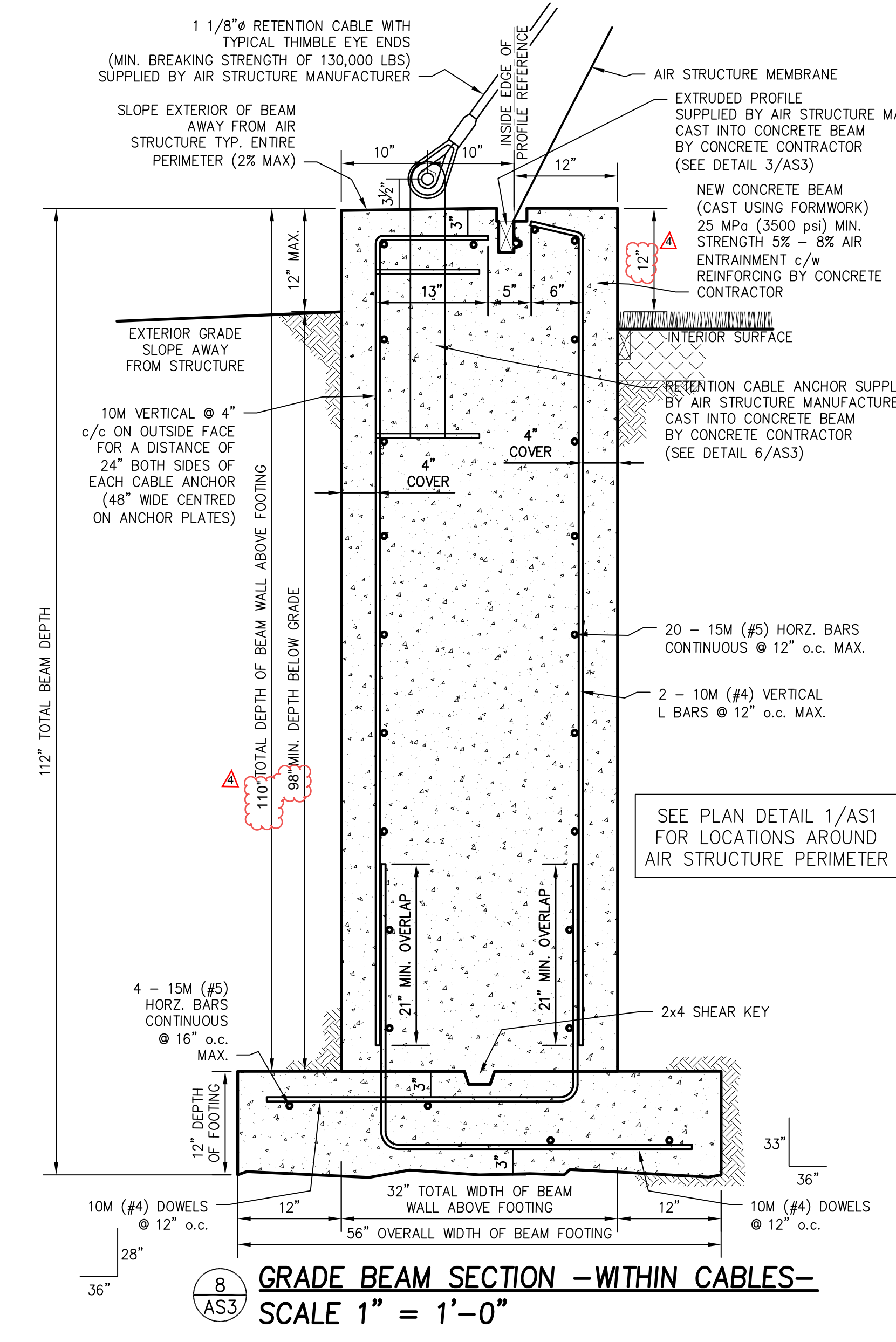
**7 AS3 TYP. BEAM DRAIN DETAIL SCALE 3/4" = 1'-0"**



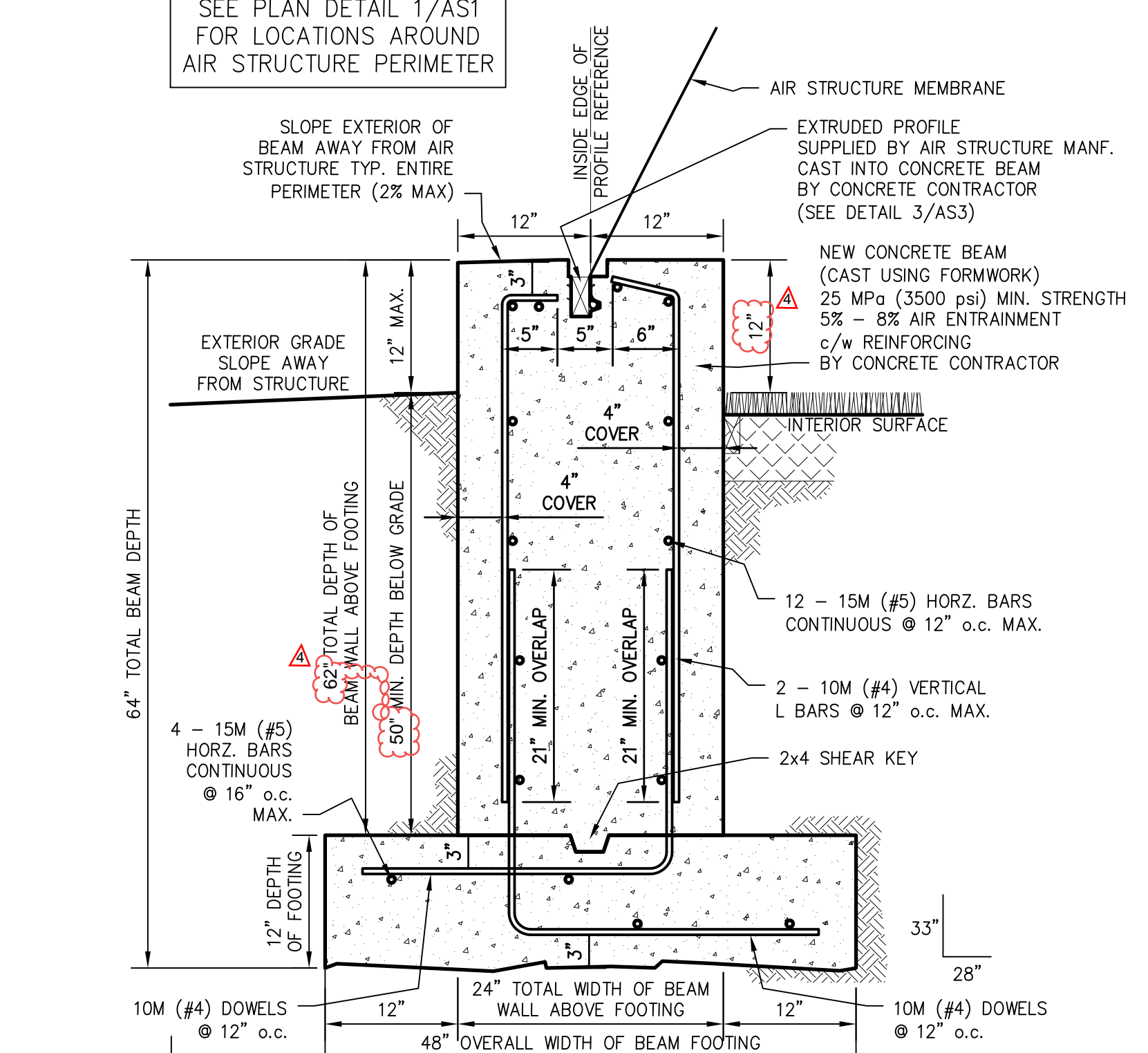
**5 AS3 TYP. CABLE ANCHOR PLAN DETAIL SCALE 1" = 1'-0"**



**6 AS3 CABLE ANCHOR DETAIL SCALE 1 1/2" = 1'-0"**



**8 AS3 GRADE BEAM SECTION - WITHIN CABLES - SCALE 1" = 1'-0"**



**9 AS3 GRADE BEAM SECTION - CORNERS - SCALE 1" = 1'-0"**

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 R. J. Burnside & Associates Limited  
 R. J. Burnside  
 License No. 7988

**REVIEWED AND STAMPED BY ARCHITECT FOR THE FOLLOWING LIFE SAFETY FEATURES:**

- FIRE EXITS, FIRE ACCESS ROUTES AND SEPARATION OF AIR SUPPORTED STRUCTURE FROM ADJACENT STRUCTURES.
- BARRIER FREE DESIGN REQUIREMENTS FOR ENTRANCES, EXITS AND PATH OF TRAVEL
- OCCUPANT LOAD BASED ON NUMBER OF EXISTS AND NUMBER OF PLUMBING FIXTURES (WASHROOMS) AVAILABLE IN THE ADJACENT WASHROOM BUILDING.

NO.	DATE (DD/MM/YY)	REVISION
4	14/01/2025	SEE PAGE C-1 FOR REVISION NOTES
3	29/10/2024	SEE PAGE C-1 FOR REVISION NOTES
2	16/10/2024	SEE PAGE C-1 FOR REVISION NOTES
1	25/04/2024	SEE PAGE C-1 FOR REVISION NOTES

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REGISTERED PROFESSIONAL ENGINEER  
 W. W. LANIKIN  
 15/01/2025  
 STRUCTURAL ONLY

**THE FARLEY GROUP**  
 Farley Manufacturing Inc.  
 A division of The Farley Group  
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 Phone: 1-888-445-3223  
 Fax: 1-888-445-3043  
 Email: man@thefarleygroup.com  
 Creative Space Solutions

CLIENT: **CASSIE CAMPBELL COMMUNITY CENTRE DOME**  
 CITY FILE #: SPA-2024-0106

CLIENT ACCEPTANCE SIGNATURE:  
 DATE ACCEPTED:  
 PROJECT:

**AIR SUPPORTED STRUCTURE FOR MULTI-USE (267'-0" x 482'-0" x 81'-0")**

LOCATION: **1060 SANDALWOOD PKWY W. BRAMPTON, ON L7A 2Z8**

**GRADE BEAM DETAILS (TYP. CAST USING FORMWORK)**

PROJECT NORTH: DRN BY: **C.J.S.**  
 REVIEWED BY: **A.R.R.**  
 DATE: **APRIL 3, 2024**  
 SCALE: **AS SHOWN**  
 PLAN NORTH: PROJ. #: **23-08D**  
 DRAWING #:

**AS3**  
 REV. 04





REVIEWED AND STAMPED BY ARCHITECT FOR THE FOLLOWING LIFE SAFETY FEATURES:  
 1- FIRE EXITS, FIRE ACCESS ROUTES AND SEPARATION OF AIR SUPPORTED STRUCTURE FROM ADJACENT STRUCTURES.  
 2- BARRIER FREE DESIGN REQUIREMENTS FOR ENTRANCES, EXITS AND PATH OF TRAVEL  
 3- OCCUPANT LOAD BASED ON NUMBER OF EXITS AND NUMBER OF PLUMBING FIXTURES (WASHROOMS AVAILABLE IN THE ADJACENT WASHROOM BUILDING).

4	14/01/2025	SEE PAGE C-1 FOR REVISION NOTES
3	29/10/2024	SEE PAGE C-1 FOR REVISION NOTES
2	16/10/2024	SEE PAGE C-1 FOR REVISION NOTES
1	25/04/2024	SEE PAGE C-1 FOR REVISION NOTES
ISSUED FOR COMPLETENESS REVIEW		
NO.	DATE: (DD/MM/YY)	REVISION:

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**W. W. LANKINEN**  
 15/01/2025  
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 Fax: 1-888-445-3043  
 Email: man@thefarleygroup.com  
 Creative Space Solutions

CLIENT: **CASSIE CAMPBELL**  
**COMMUNITY CENTRE DOME**  
 CITY FILE #: SPA-2024-0106

CLIENT ACCEPTANCE SIGNATURE:  
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 PROJECT:

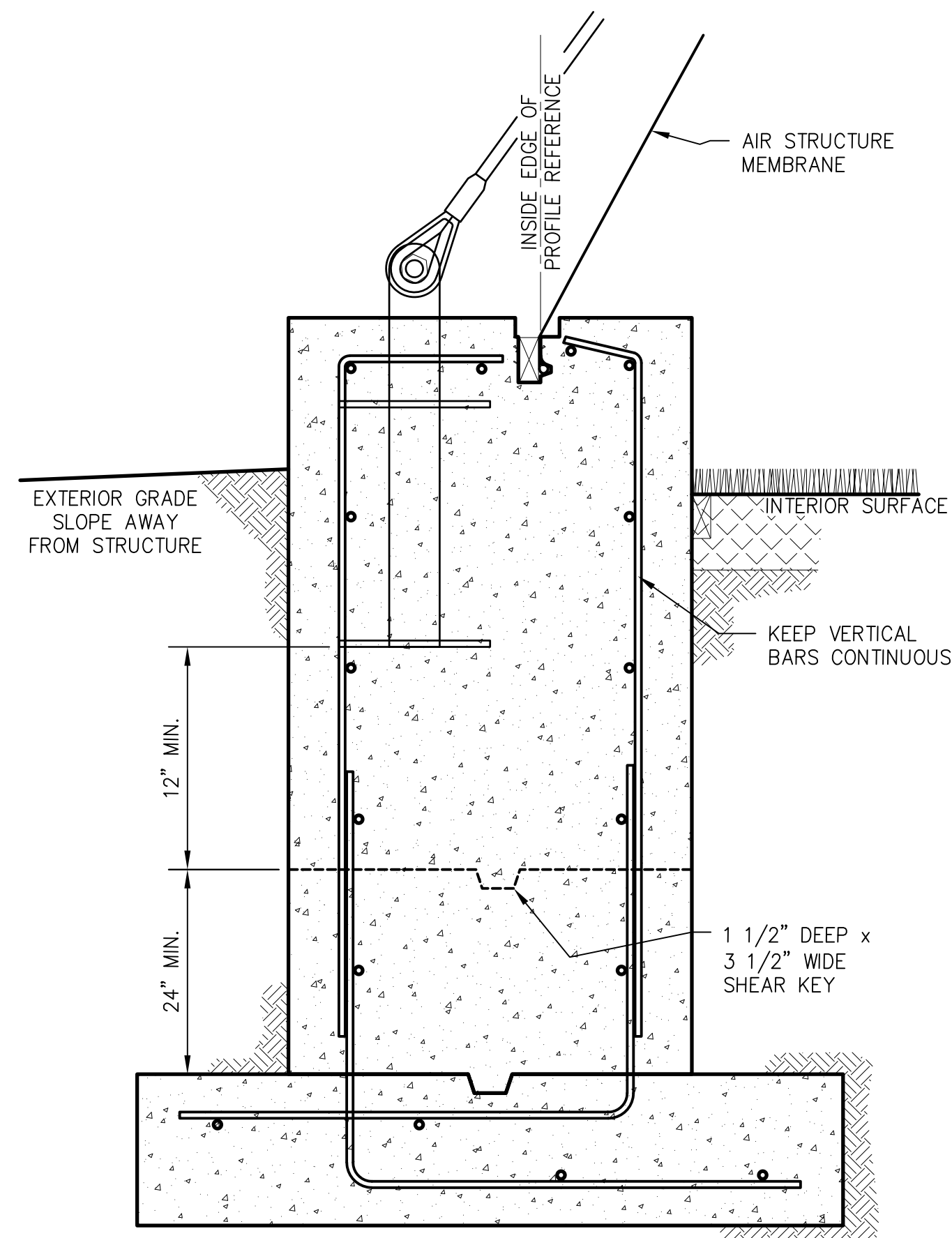
**AIR SUPPORTED STRUCTURE FOR MULTI-USE**  
 (267'-0" x 482'-0" x 81'-0")

LOCATION: 1060 SANDALWOOD PKWY W. BRAMPTON, ON L7A 2Z8

DRAWING: **CONSTRUCTION JOINT AND EXIT DOOR DETAILS**

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	APRIL 3, 2024
	SCALE:	AS SHOWN
PLAN NORTH:	PROJ. #:	23-08D
	DRAWING #:	<b>AS4</b>

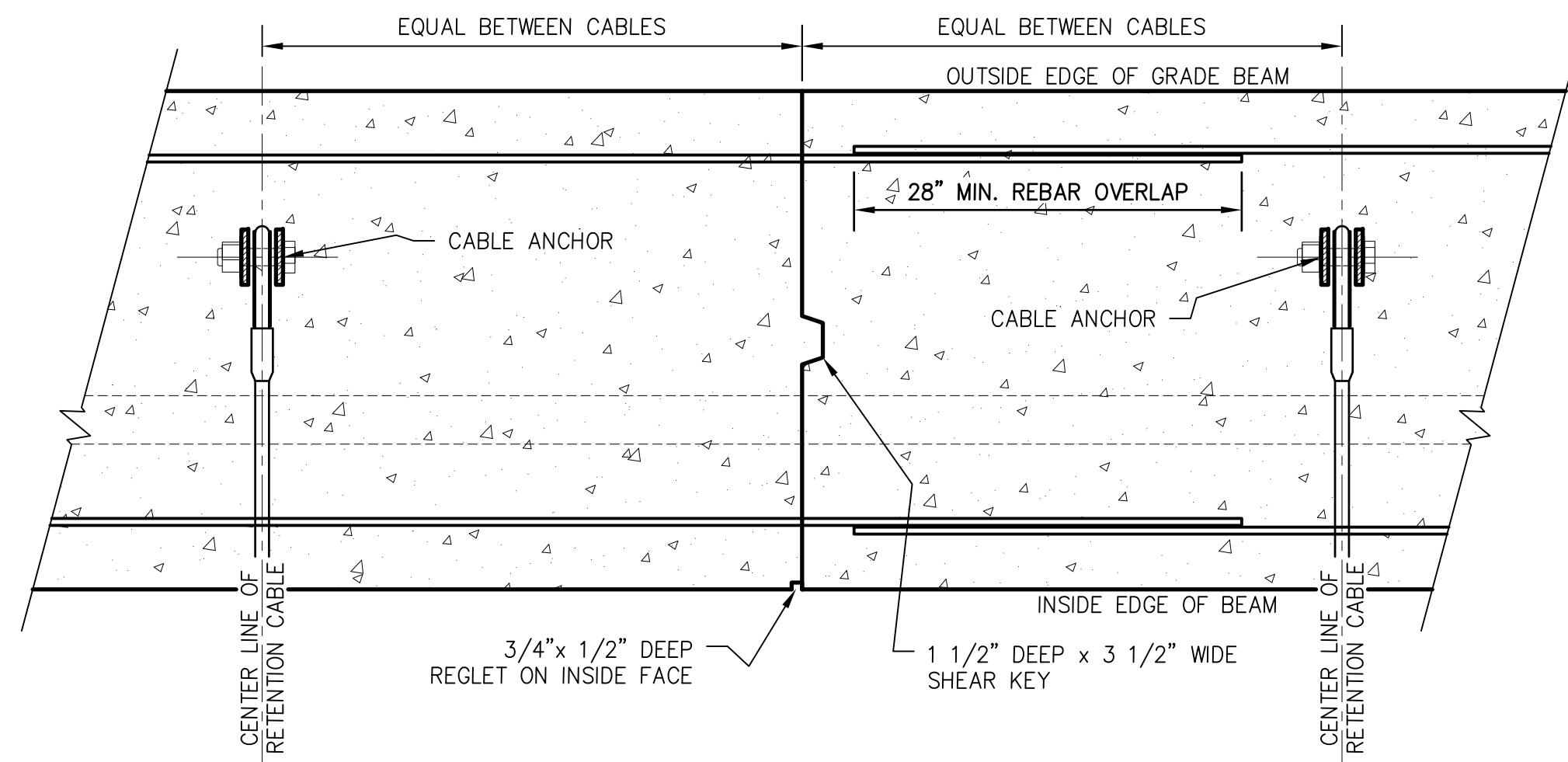
REV. 04



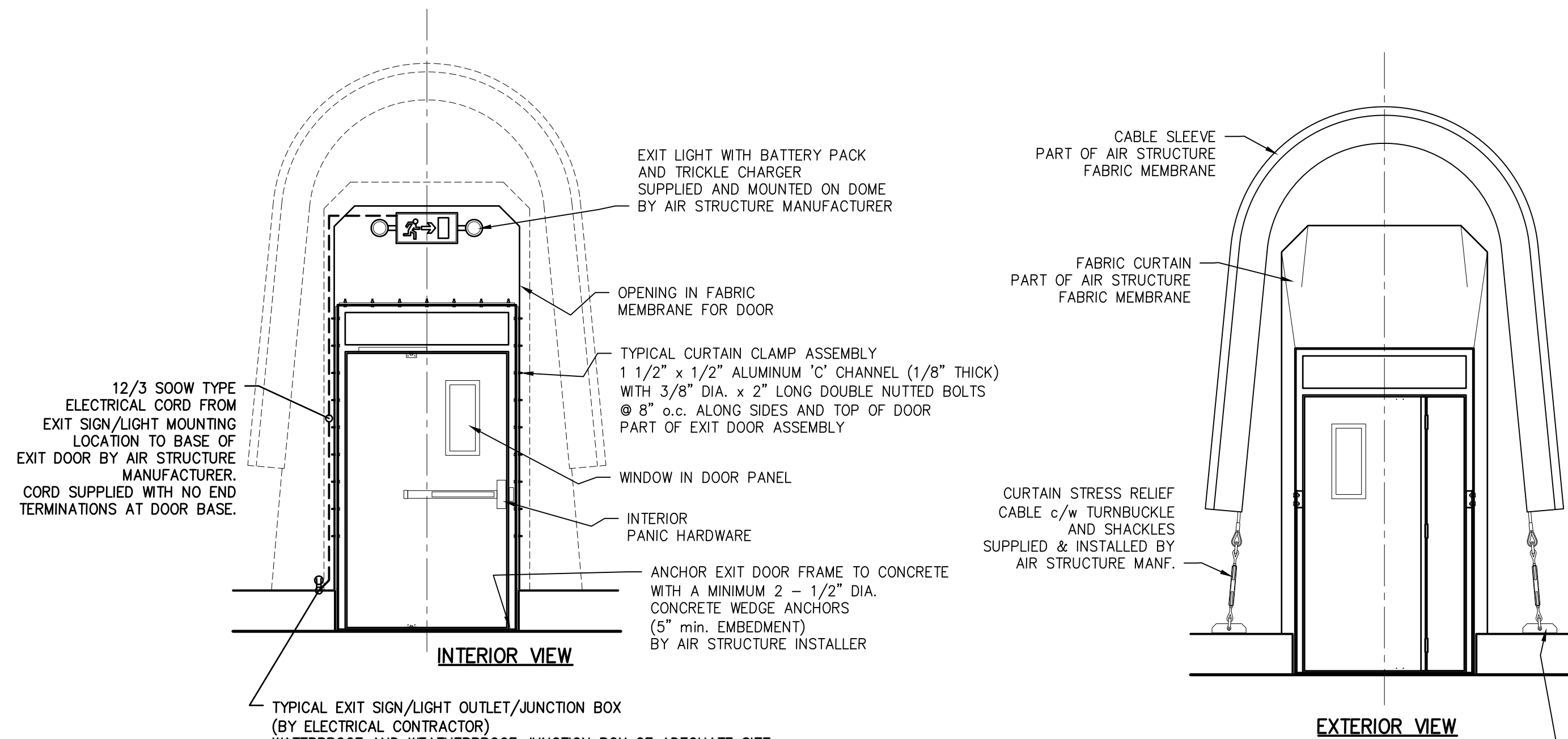
TYPICAL CAST USING FORMWORK BEAM

**1 TYP. GRADE BEAM HORIZONTAL CONSTRUCTION JOINT NOT TO SCALE**

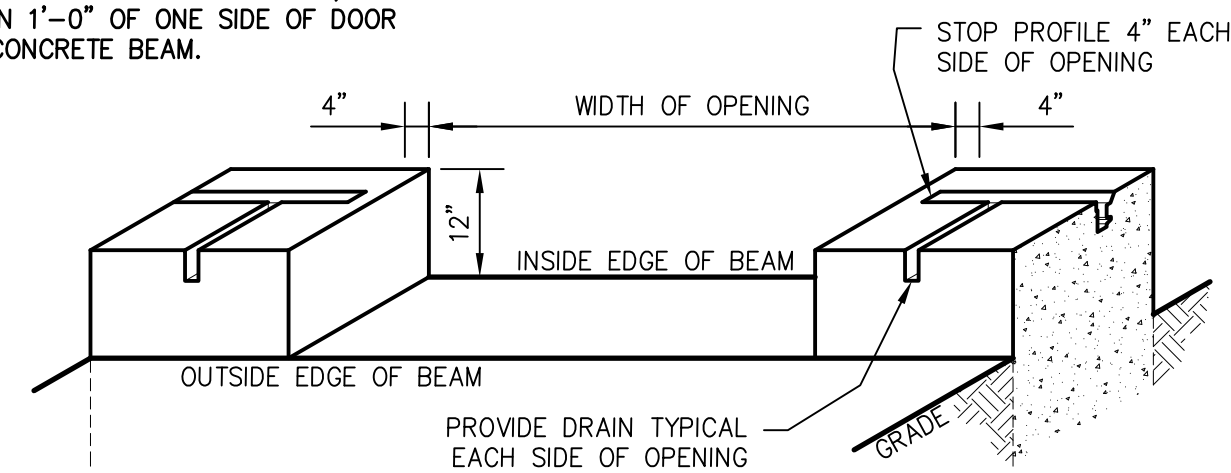
VERTICAL CONSTRUCTION JOINTS NOT TO OCCUR WITHIN:  
 - 3'-0" MIN. OF A PERIMETER CONCRETE PAD EDGE  
 - 8'-0" MIN. FROM A BEAM CORNER  
 - 8'-0" MIN. FROM AN UNDERGROUND VAULT  
 - 5'-0" MIN. FROM A CAST-IN CABLE ANCHOR



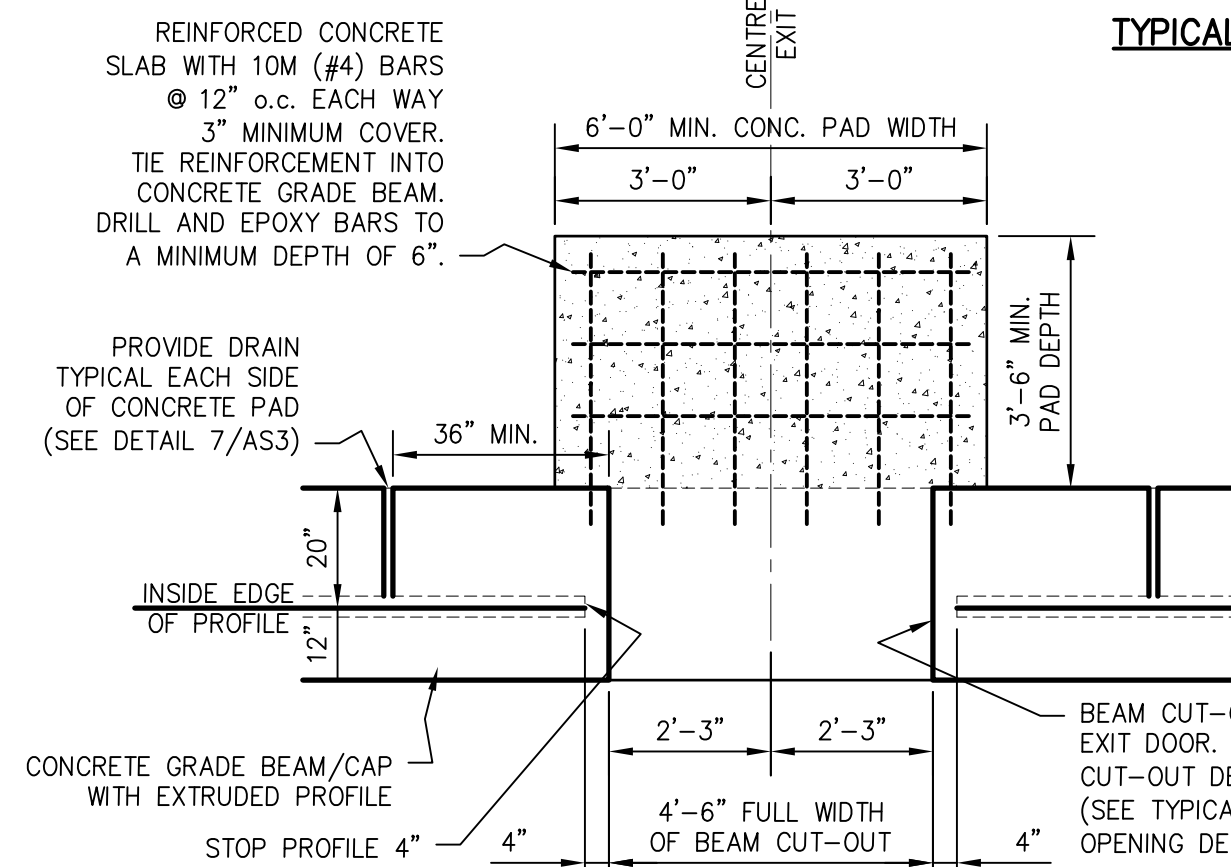
**2 TYP. GRADE BEAM VERTICAL CONSTRUCTION JOINT NOT TO SCALE**



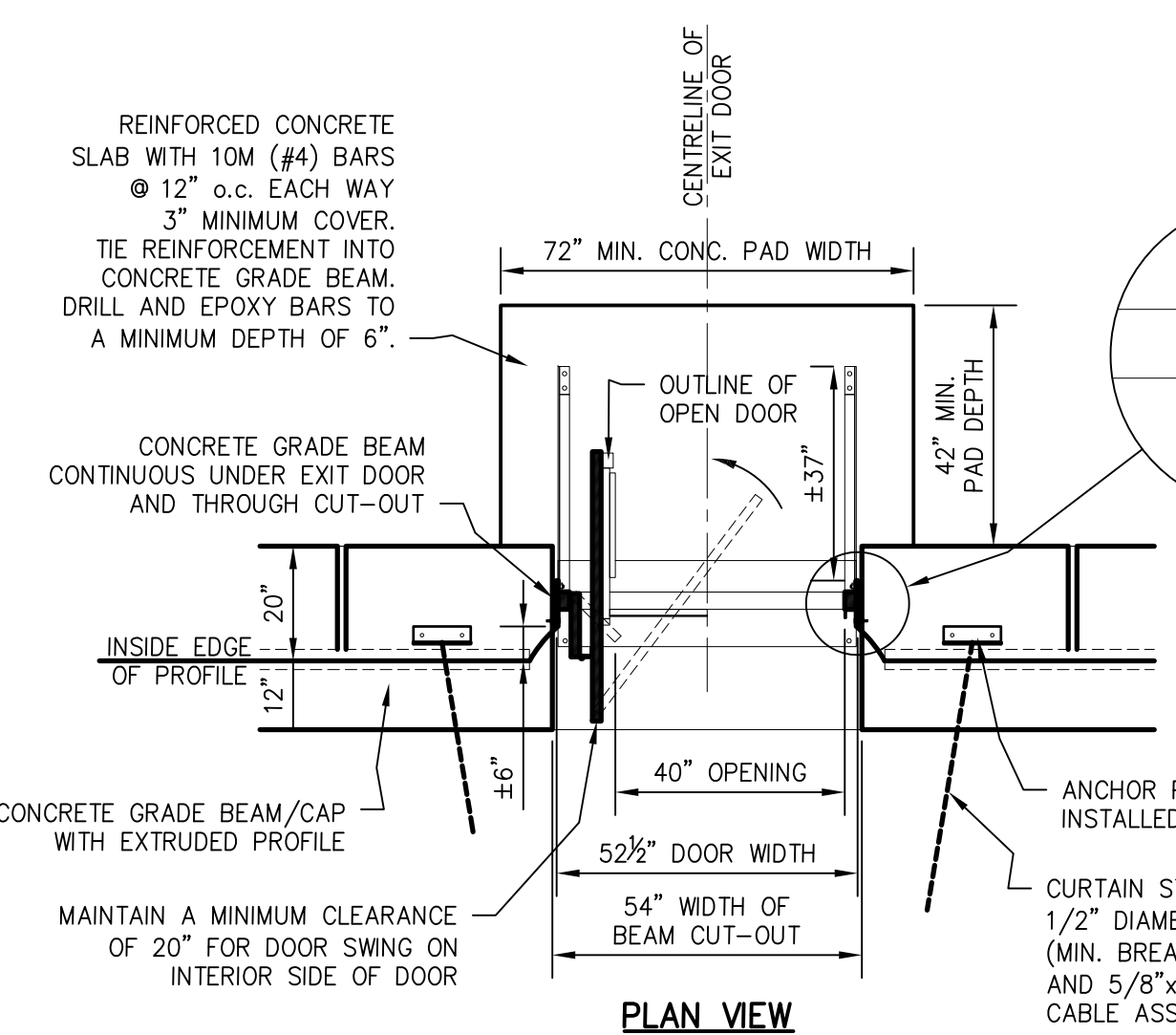
TYPICAL EXIT SIGN/LIGHT OUTLET/JUNCTION BOX (BY ELECTRICAL CONTRACTOR) WATERPROOF AND WEATHERPROOF JUNCTION BOX OF ADEQUATE SIZE WITH LIQUID TIGHT LID AND CABLE GLANDS. EMERGENCY LIGHTING REQUIRES 120 VOLT, 1PH, 60 HZ, DEDICATED CIRCUIT. CONNECT CORD END FROM EXIT LIGHT AT JUNCTION BOX. CONNECTION METHOD TO BE DETERMINED BY OWNER OR OWNER'S DESIGNATE (I.E. HARD WIRE OR SUPPLY/INSTALL PLUGS AND RECEPTACLES) JUNCTION BOX TO BE LOCATED WITHIN 1'-0" OF ONE SIDE OF DOOR AND ADJACENT TO INSIDE EDGE OF CONCRETE BEAM.



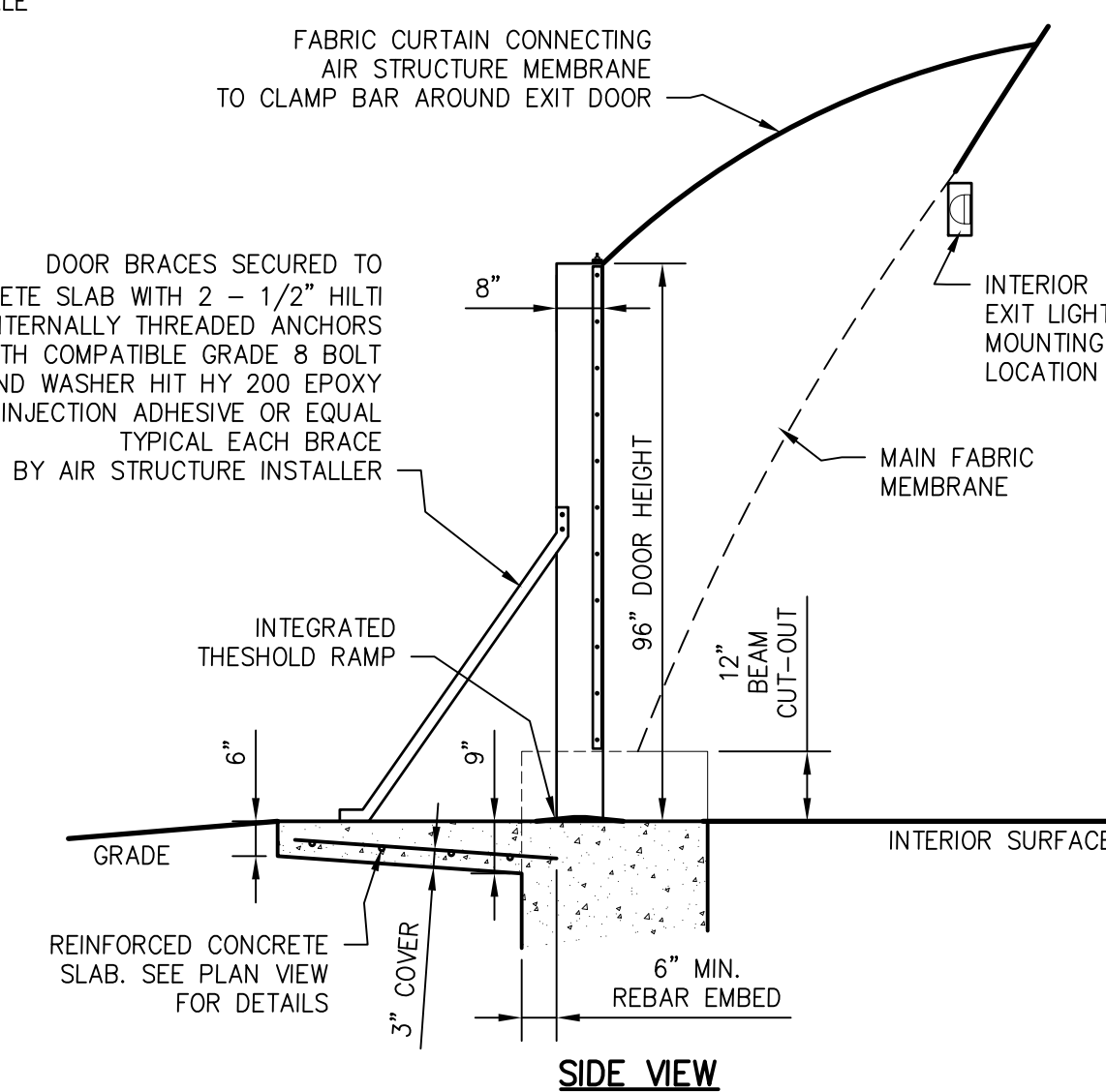
TYPICAL BEAM OPENING DETAIL NOT TO SCALE



BEAM CUT-OUT & REINFORCEMENT PLAN



PLAN VIEW



SIDE VIEW

**3 TYPICAL SINGLE EMERGENCY EXIT DOOR SCALE 3/8"=1'-0"**





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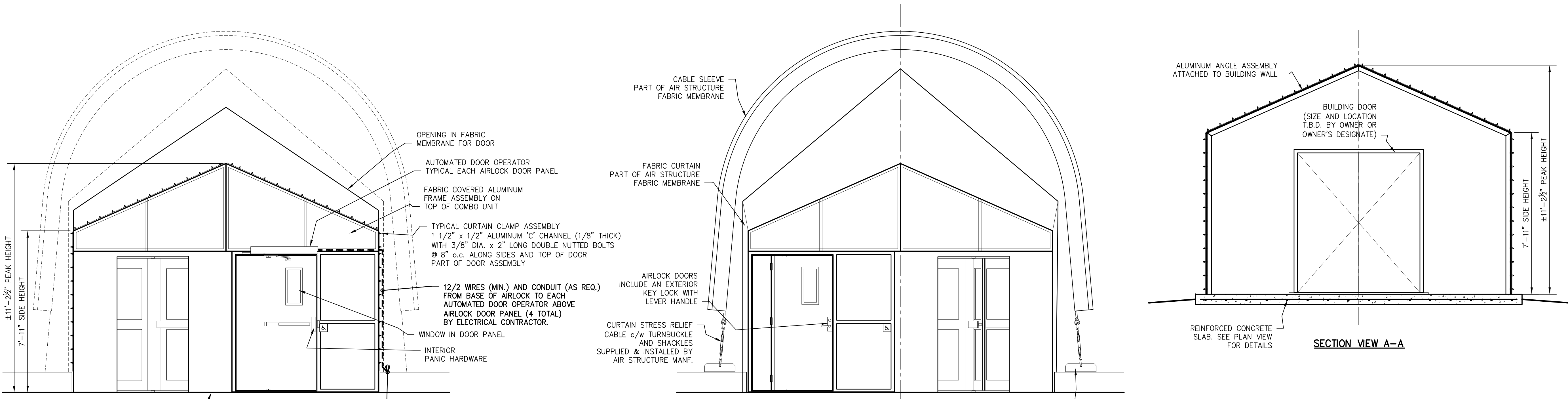
CLIENT ACCEPTANCE SIGNATURE:  
 DATE ACCEPTED:  
 PROJECT: AIR SUPPORTED STRUCTURE FOR MULTI-USE (267'-0" x 482'-0" x 81'-0")

LOCATION: 1060 SANDALWOOD PKWY W. BRAMPTON, ON L7A 2Z8

DRAWING: COMBO UNIT DETAILS

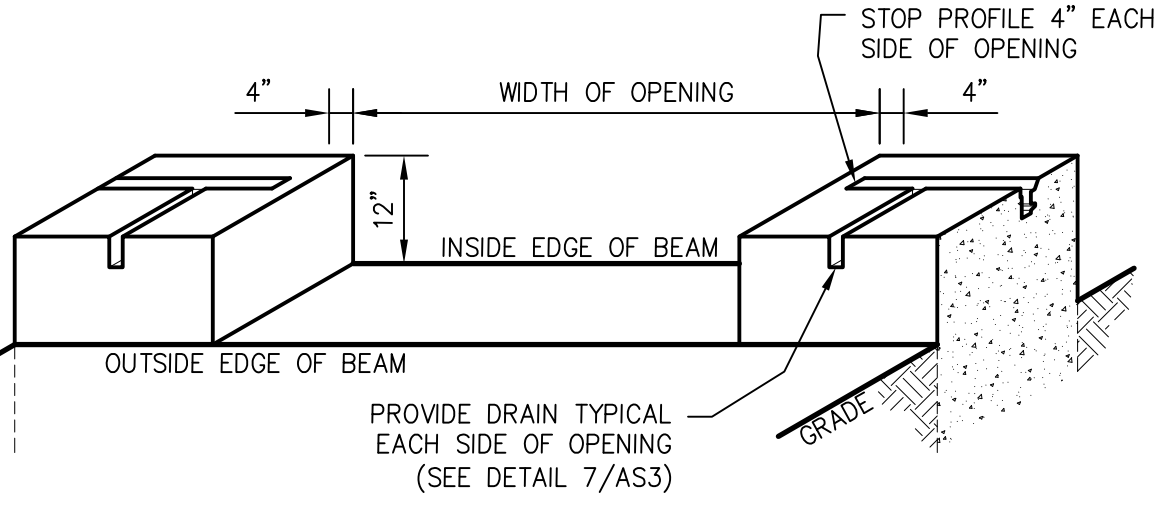
PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
DATE:	APRIL 3, 2024	
SCALE:	AS SHOWN	
PLAN NORTH:	PROJ. #:	23-08D
	DRAWING #:	AS5

REV. 04

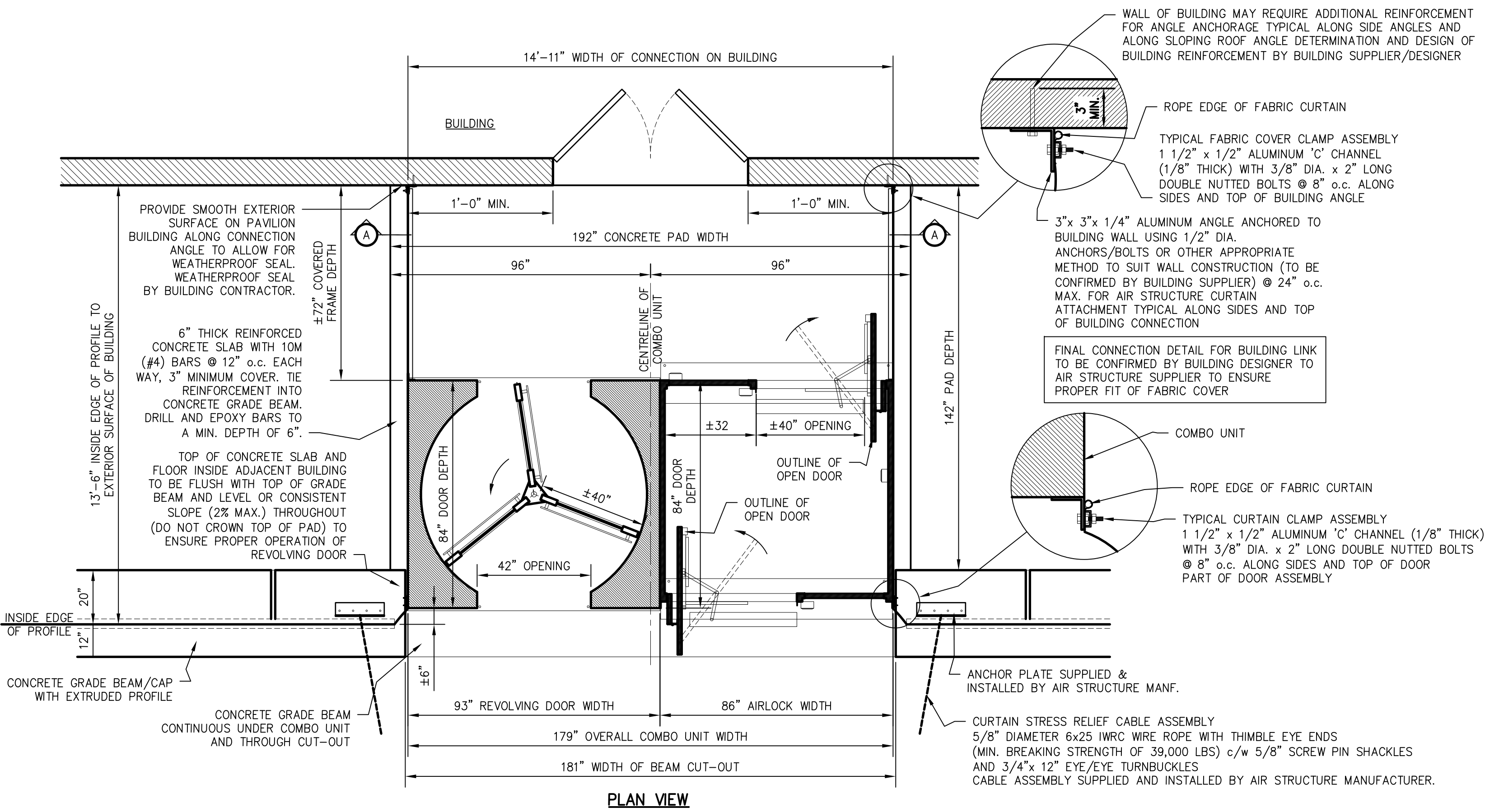


ANCHOR DOOR FRAME TO CONCRETE WITH A MINIMUM OF 8 - 1/2" DIA. CONCRETE WEDGE ANCHORS (5" MIN. EMBEDMENT) BY AIR STRUCTURE INSTALLER (4 FOR REV. DOOR AND 4 FOR AIRLOCK)

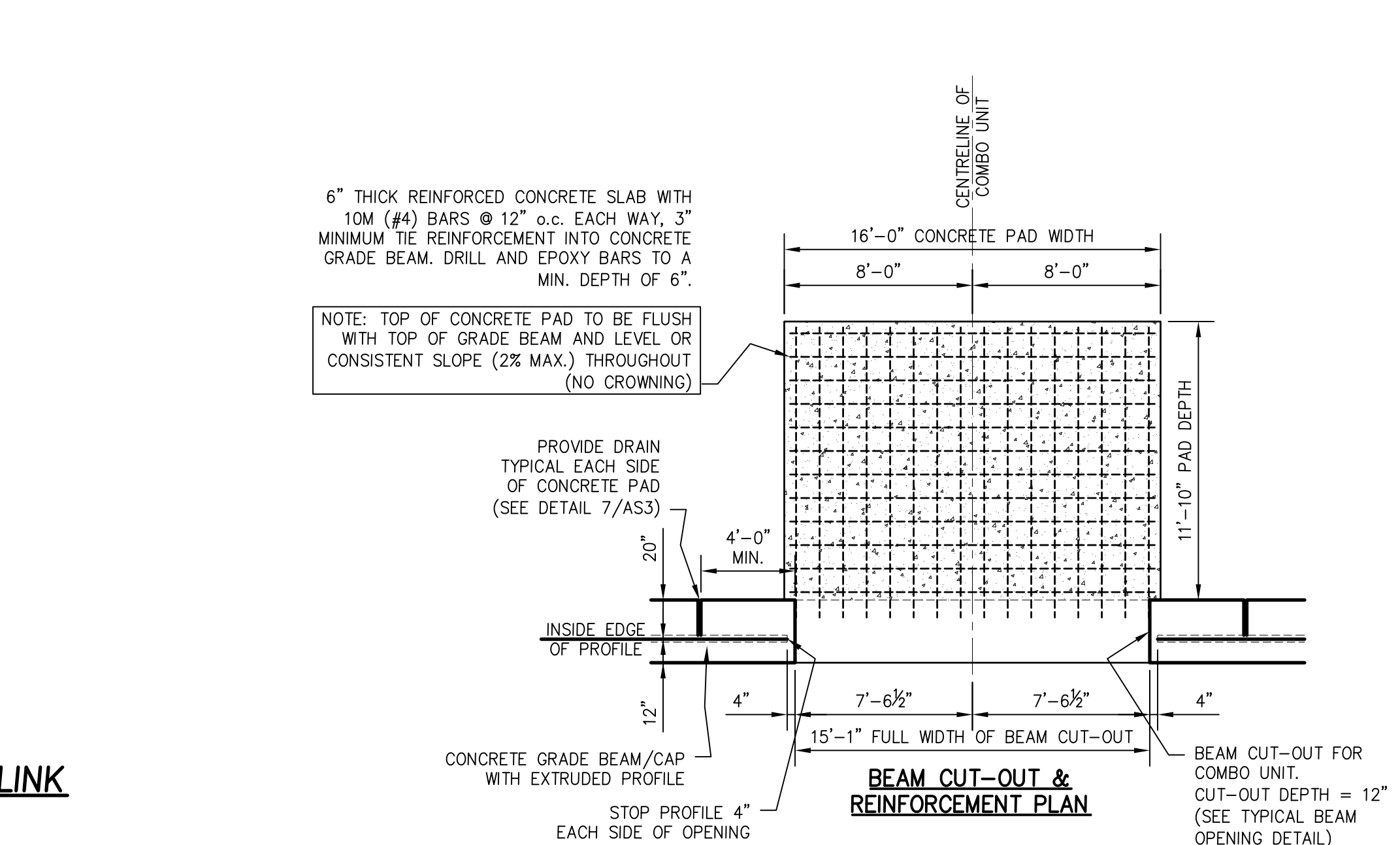
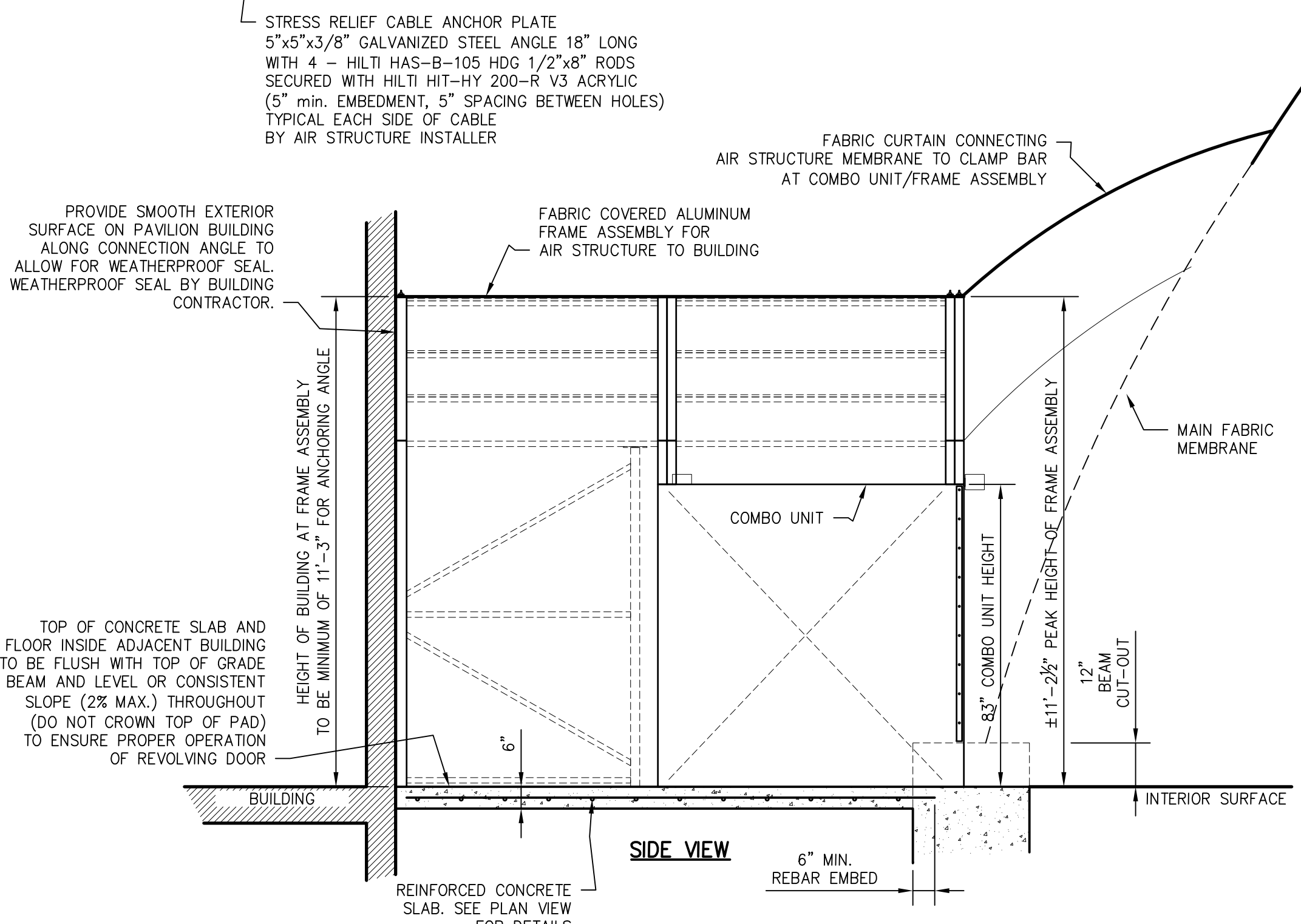
**AUTOMATED DOOR OPERATOR OUTLET/JUNCTION BOX** (BY ELECTRICAL CONTRACTOR)  
 WATERPROOF AND WEATHERPROOF JUNCTION BOX OF ADEQUATE SIZE WITH LIQUID TIGHT LID AND CABLE GLANDS.  
 AUTOMATED DOOR OPERATORS REQUIRES 120 VOLT, 1PH, 60 HZ, DEDICATED CIRCUIT. PROVIDE AND CONNECT 12/2 WIRES (MIN.) AND CONDUIT (AS REQUIRED) TO EACH AUTOMATED DOOR OPERATOR (4 OPERATORS TOTAL). CONNECTION METHOD TO BE DETERMINED BY OWNER OR OWNER'S DESIGNATE (HARD WIRE OR SUPPLY/INSTALL PLUGS AND RECEPTACLES) JUNCTION BOX TO BE LOCATED WITHIN 1'-0" FROM SIDE OF AIRLOCK AND ADJACENT TO INSIDE EDGE OF CONCRETE BEAM.



**TYPICAL BEAM OPENING DETAIL**  
 NOT TO SCALE



**TYPICAL 3-LEAF REVOLVING DOOR AND AUTOMATED PEDESTRIAN AIRLOCK UNIT (COMBO UNIT) AND BUILDING LINK**  
 SCALE 3/8"=1'-0"







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**W. W. LANKINEN**  
 15/01/2025  
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 Farley Manufacturing Inc.  
 A division of The Farley Group  
 6 Kerr Crescent  
 Puslinch, ON, Canada N0B 2J0  
 Phone: 1-888-445-3223  
 Fax: 1-888-445-3043  
 Email: man@thefarleygroup.com  
 Creative Space Solutions

CLIENT: **CASSIE CAMPBELL**  
**COMMUNITY CENTRE DOME**  
 CITY FILE #: SPA-2024-0106

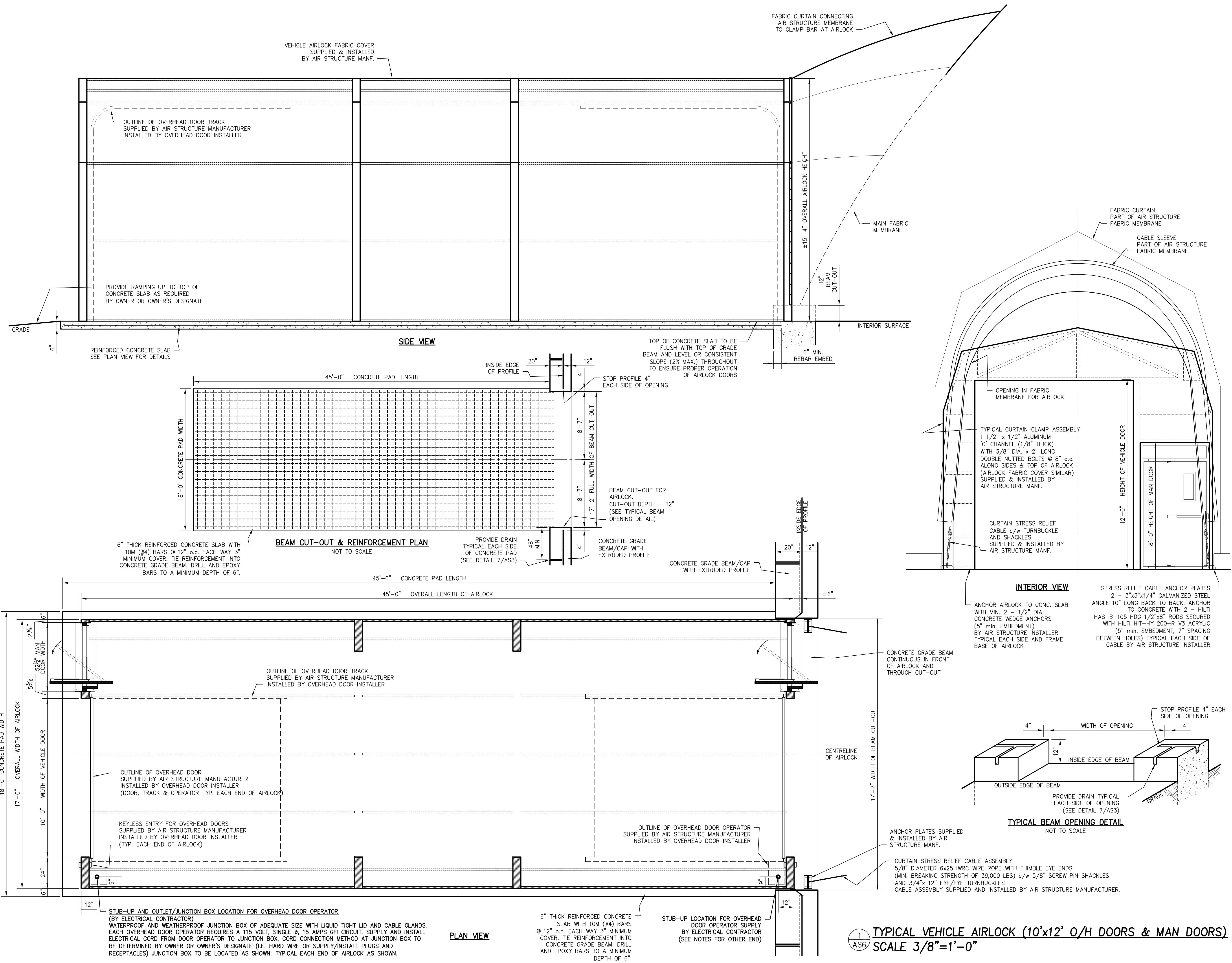
CLIENT ACCEPTANCE SIGNATURE:  
 DATE ACCEPTED:  
 PROJECT:

**AIR SUPPORTED STRUCTURE FOR MULTI-USE**  
 (267'-0" x 482'-0" x 81'-0")

LOCATION: 1060 SANDALWOOD PKWY W. BRAMPTON, ON L7A 2Z8

**VEHICLE AIRLOCK DETAILS**

PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING #: **AS6**  
 REV. 04



Title Block - Construction Drawings and Cutting Patterns: F-3-03 - Rev. 1 - April 02





REVIEWED AND STAMPED BY ARCHITECT FOR THE FOLLOWING LIFE SAFETY FEATURES:  
 1- FIRE EXITS, FIRE ACCESS ROUTES AND SEPARATION OF AIR SUPPORTED STRUCTURE FROM ADJACENT STRUCTURES.  
 2- BARRIER FREE DESIGN REQUIREMENTS FOR ENTRANCES, EXITS AND PATH OF TRAVEL  
 3- OCCUPANT LOAD BASED ON NUMBER OF EXITS AND NUMBER OF PLUMBING FIXTURES (WASHROOMS AVAILABLE IN THE ADJACENT WASHROOM BUILDING).

4	14/01/2025	SEE PAGE C-1 FOR REVISION NOTES
3	29/10/2024	SEE PAGE C-1 FOR REVISION NOTES
2	16/10/2024	SEE PAGE C-1 FOR REVISION NOTES
1	25/04/2024	SEE PAGE C-1 FOR REVISION NOTES
		ISSUED FOR COMPLETENESS REVIEW
NO.	DATE (DD/MM/YY)	REVISION

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 292 Speedvale Avenue West, Unit 20, Guelph, Ontario  
 telephone (519) 823-4895 fax (519) 836-5477  
 www.rjburnside.com

REGISTERED PROFESSIONAL ENGINEER  
**W. LANKINEN**  
 15/01/2025  
 STRUCTURAL ONLY

**THE FARLEY GROUP**  
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 Creative Space Solutions

CLIENT:  
**CASSIE CAMPBELL  
 COMMUNITY CENTRE DOME  
 CITY FILE #: SPA-2024-0106**

CLIENT ACCEPTANCE  
 SIGNATURE:  
 DATE ACCEPTED:

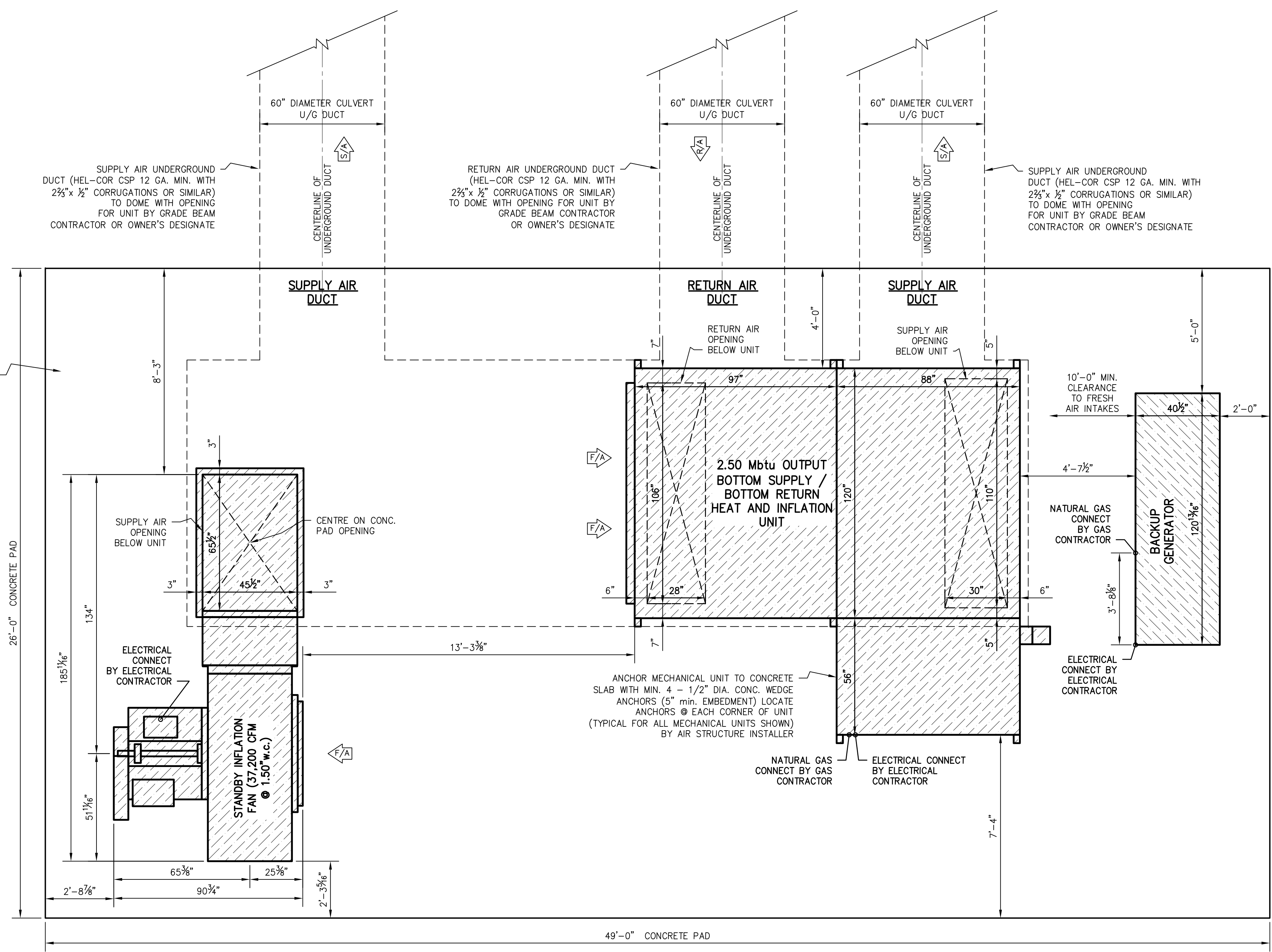
PROJECT:  
**AIR SUPPORTED STRUCTURE  
 FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

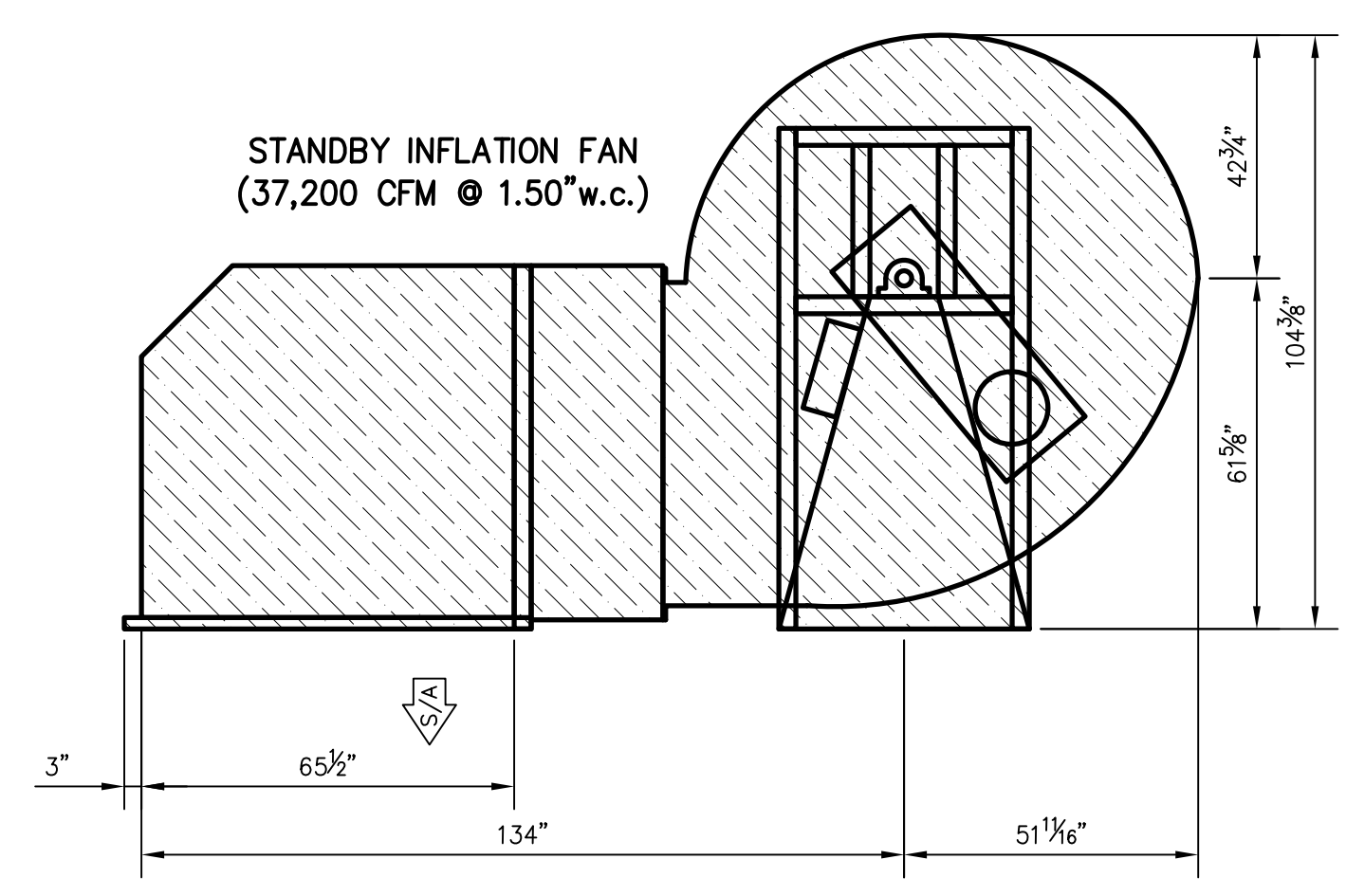
DRAWING:  
**MECHANICAL PAD #1  
 DETAILS**

PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING #:

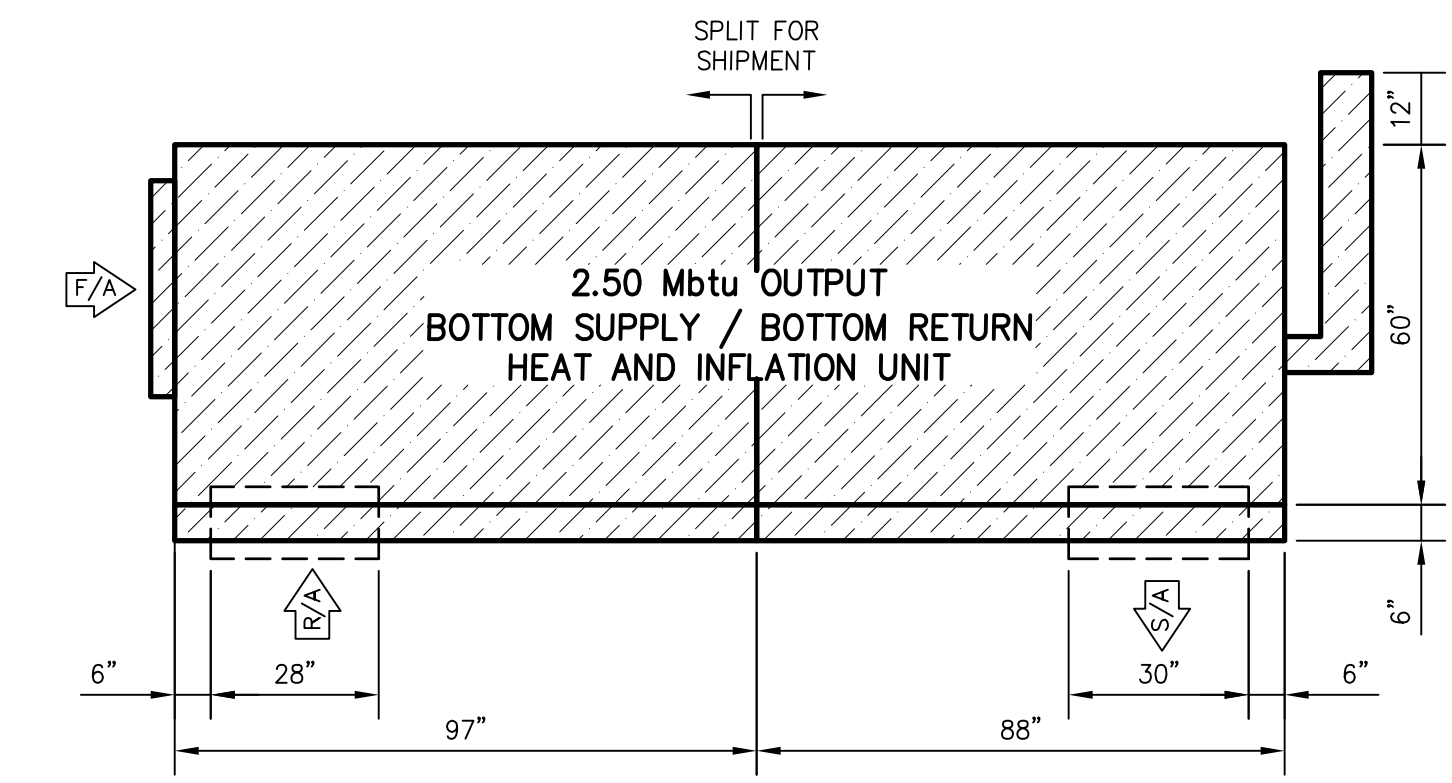
**AS7**  
 REV. 04



**1 AS7 PLAN DETAIL OF MECHANICAL UNITS ON CONCRETE PAD #1**  
 SCALE 3/8"=1'-0" SEE DETAILS SHEET AS8 & AS9 FOR ADDITIONAL PAD #1 DETAILS OF UNDERGROUND VAULT



**2 AS7 SIDE VIEW OF STANDBY INFLATION UNIT**  
 SCALE 3/8"=1'-0"



**3 AS7 SIDE VIEW OF HEAT AND INFLATION UNIT**  
 SCALE 3/8"=1'-0"





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CLIENT:  
**CASSIE CAMPBELL  
 COMMUNITY CENTRE DOME  
 CITY FILE #: SPA-2024-0106**

CLIENT ACCEPTANCE  
 SIGNATURE:  
 DATE ACCEPTED:

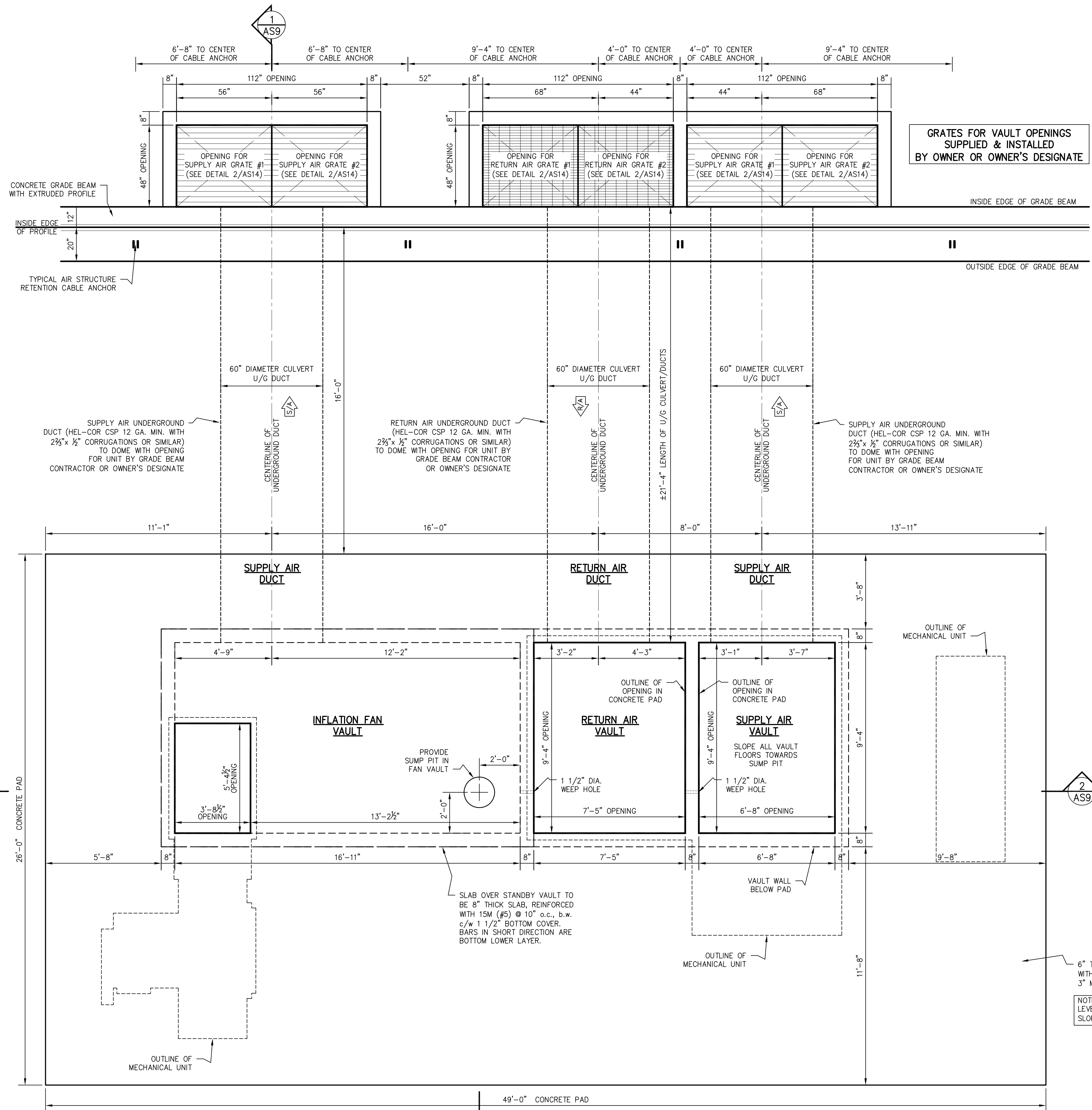
PROJECT:  
**AIR SUPPORTED STRUCTURE  
 FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

DRAWING:  
**MECHANICAL PAD #1  
 VAULT DETAILS (1)**

PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING #:

**AS8**  
 REV. 04



**PLAN DETAIL OF MECHANICAL PAD #1 UNDERGROUND VAULTS**  
 SCALE 3/8"=1'-0"





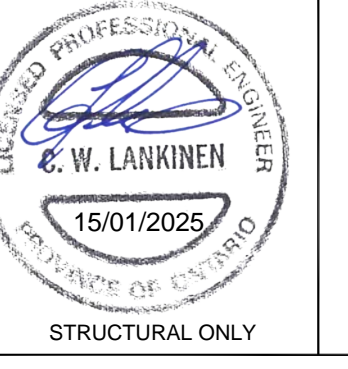
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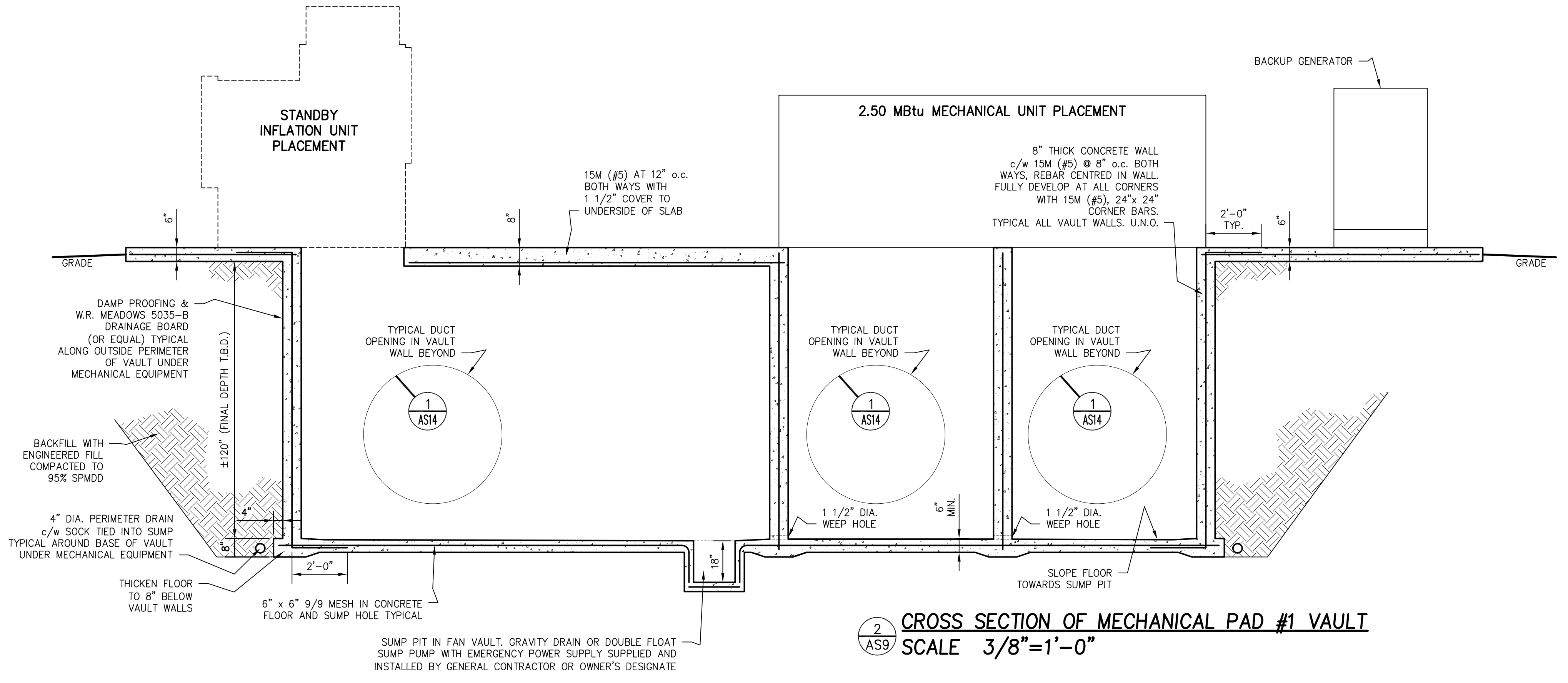
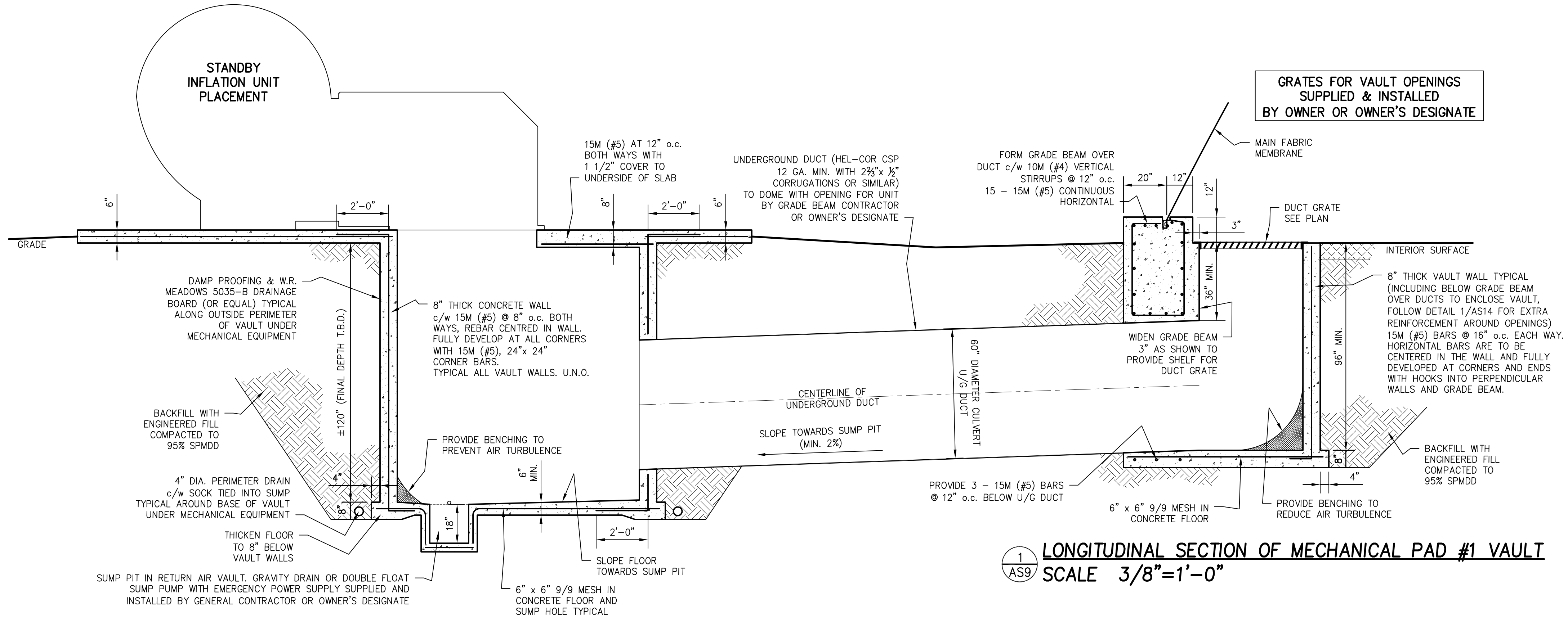
PROJECT:  
**AIR SUPPORTED STRUCTURE FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

DRAWING:  
**MECHANICAL PAD #1  
 VAULT DETAILS (2)**

PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING #:

**AS9**  
 REV. 04



Title Block - Construction Drawings and Clipping Patterns: F-3-03 - Rev. 1 - April 02





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CLIENT: CASSIE CAMPBELL  
 COMMUNITY CENTRE DOME  
 CITY FILE #: SPA-2024-0106

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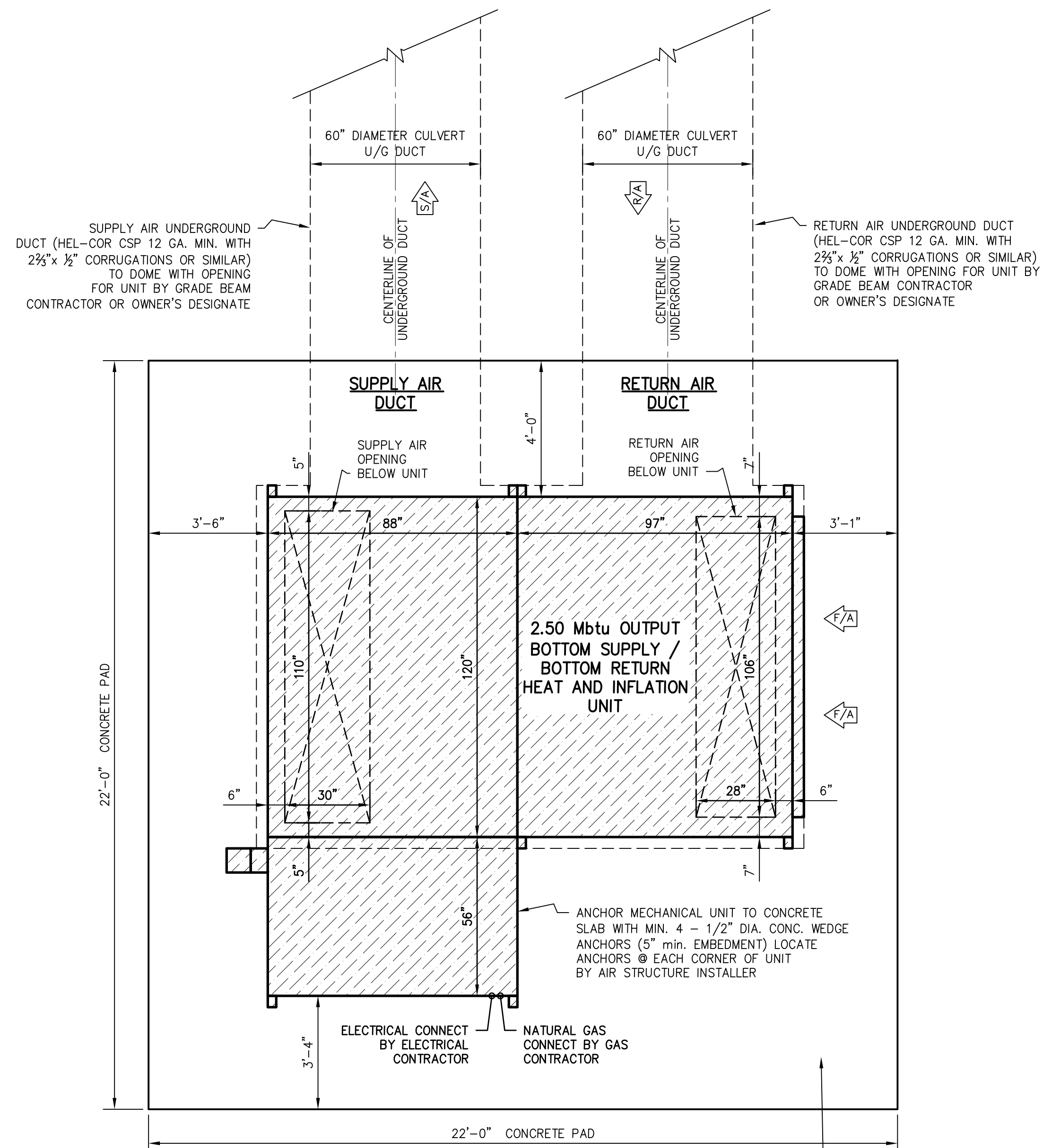
PROJECT: AIR SUPPORTED STRUCTURE FOR MULTI-USE (267'-0" x 482'-0" x 81'-0")

LOCATION: 1060 SANDALWOOD PKWY W. BRAMPTON, ON L7A 2Z8

DRAWING: MECHANICAL PAD #2 AND MECHANICA VAULT DETAILS (1)

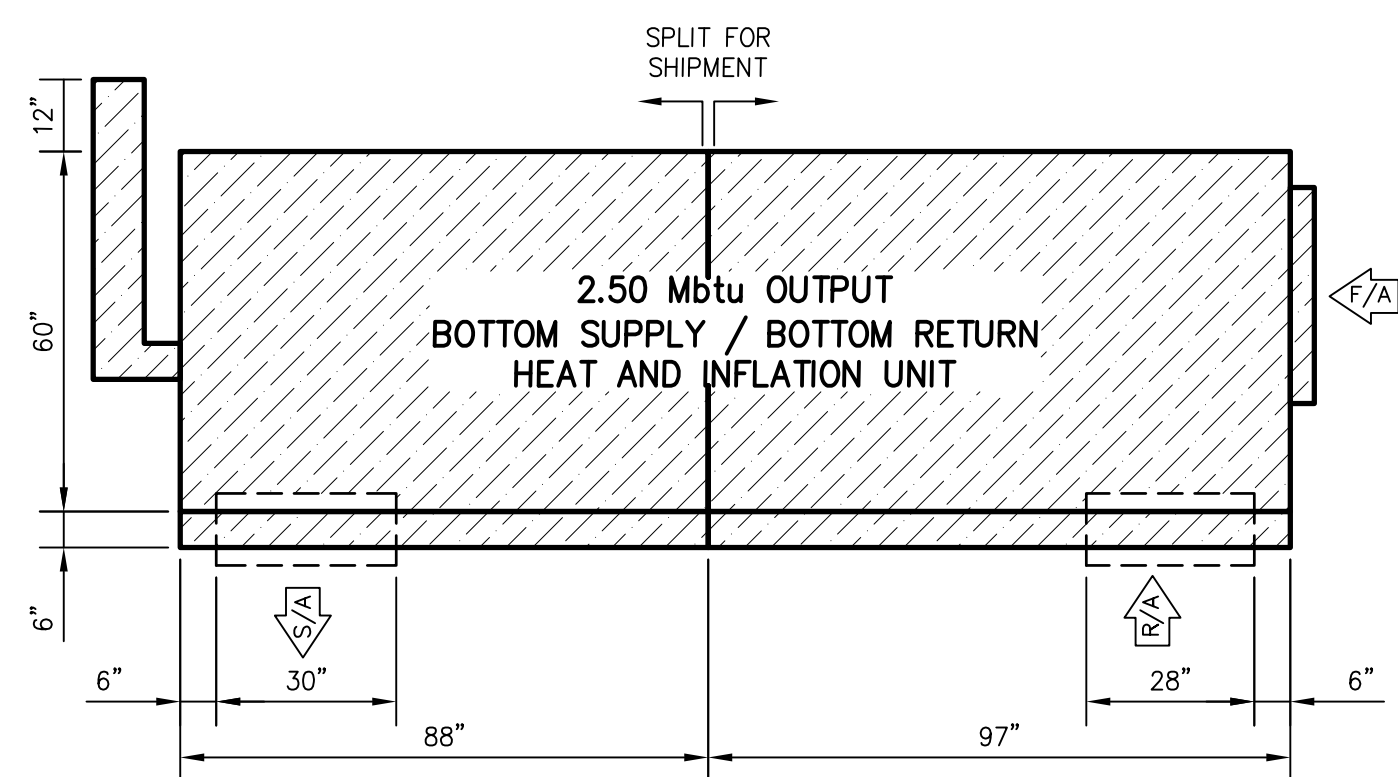
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 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING #:

**AS10**  
 REV. 04

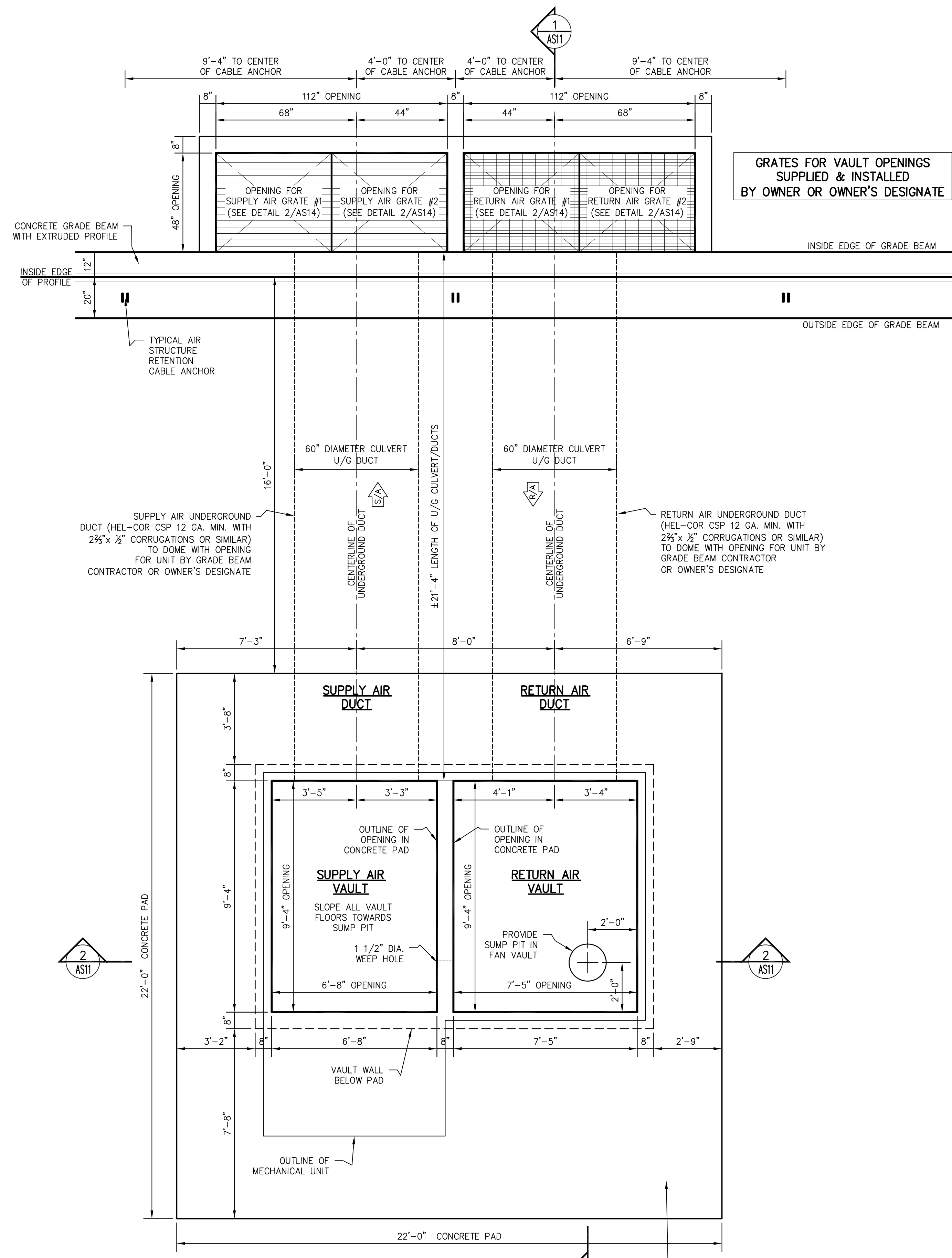


1 AS10 PLAN DETAIL OF MECHANICAL UNITS ON CONCRETE PAD #2  
 SCALE 3/8"=1'-0"  
 SEE DETAILS SHEET AS11 FOR ADDITIONAL PAD #2 DETAILS OF UNDERGROUND VAULT

NOTE: TOP OF MECHANICAL PAD TO BE LEVEL OR CONSISTENT SLOPE (2% MAX.) THROUGHOUT (NO CROWNING)



2 AS10 SIDE VIEW OF HEAT AND INFLATION UNIT  
 SCALE 3/8"=1'-0"



3 AS10 PLAN DETAIL OF MECHANICAL PAD #2 UNDERGROUND VAULTS  
 SCALE 3/8"=1'-0"

NOTE: TOP OF MECHANICAL PAD TO BE LEVEL OR CONSISTENT SLOPE (2% MAX.) THROUGHOUT (NO CROWNING)





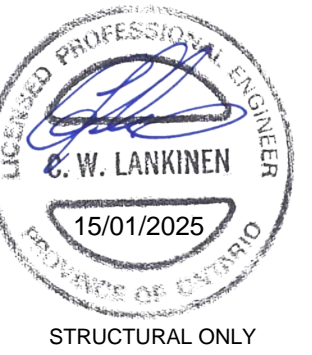
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CLIENT ACCEPTANCE  
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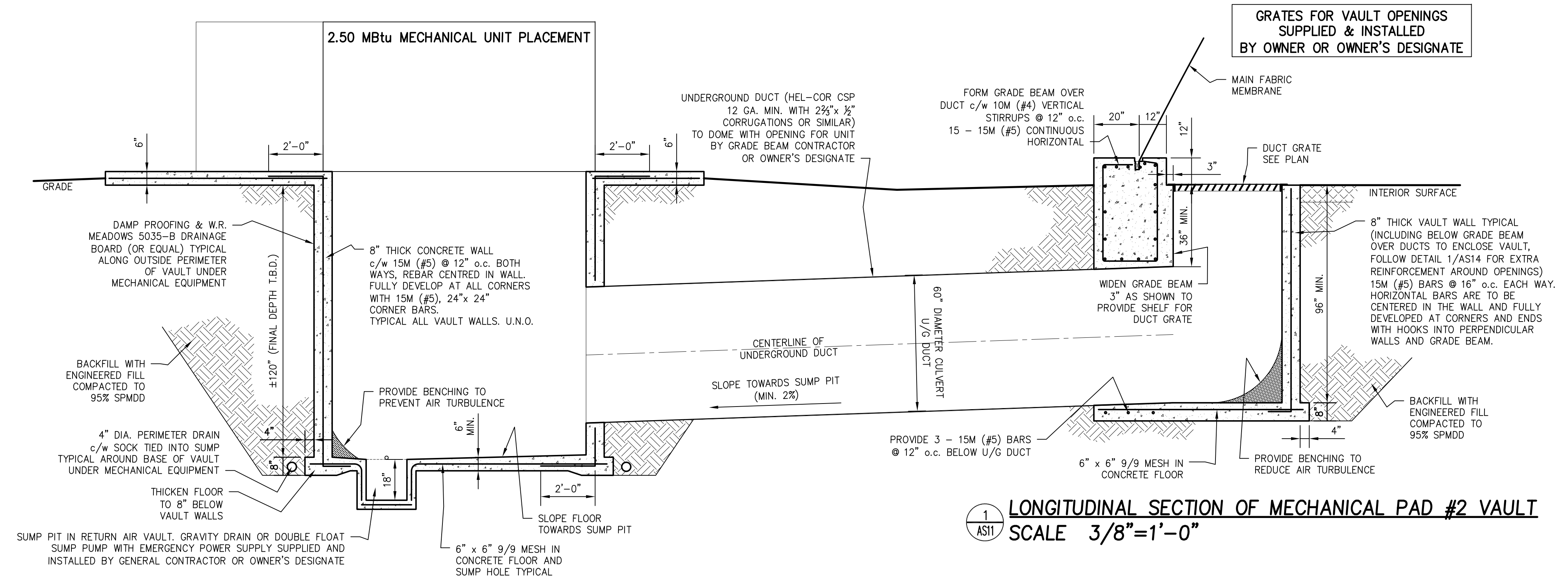
PROJECT:  
**AIR SUPPORTED STRUCTURE  
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 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
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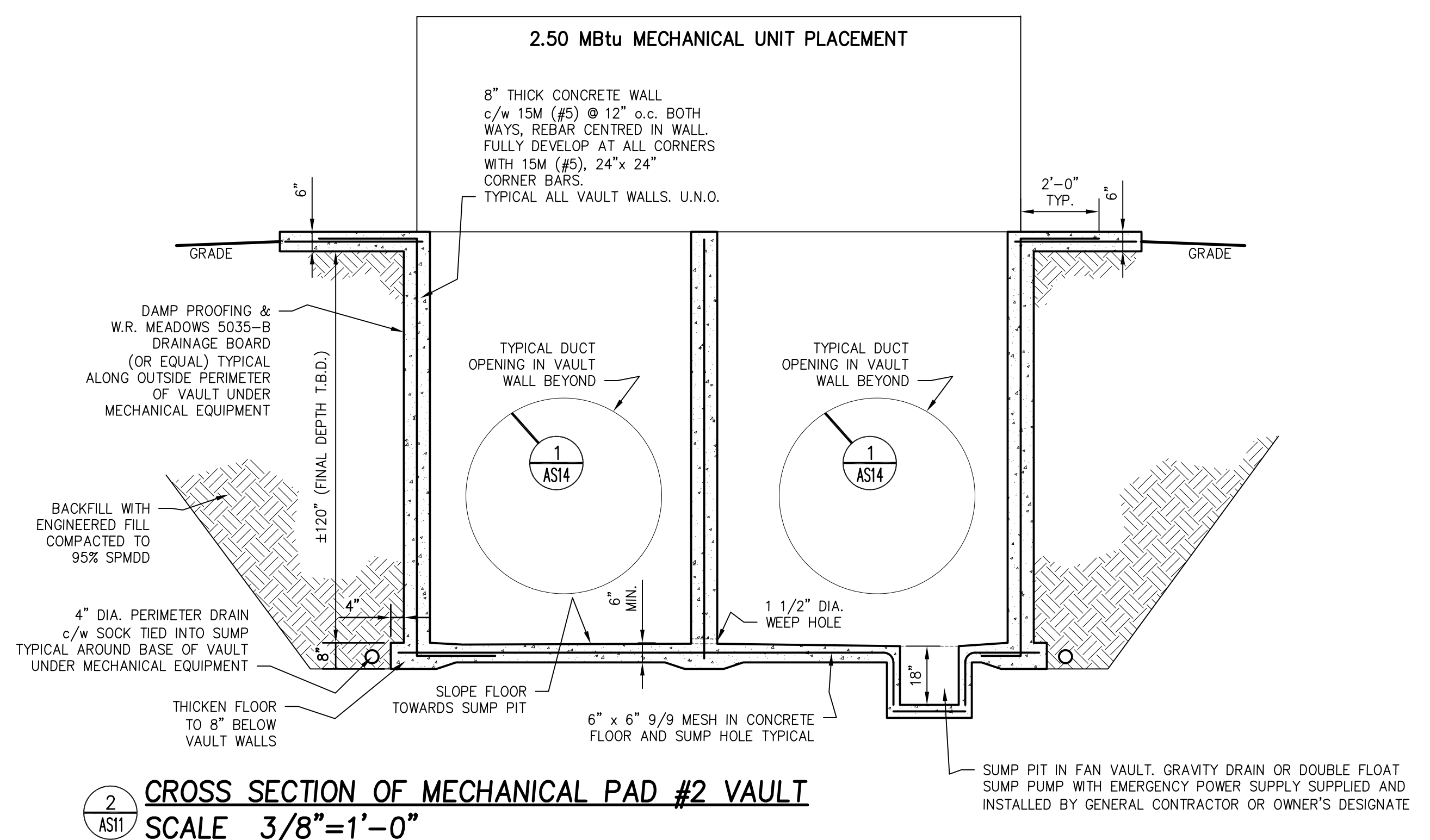
DRAWING:  
**MECHANICAL PAD #2  
 VAULT DETAILS (2)**

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	APRIL 3, 2024
	SCALE:	AS SHOWN
PLAN NORTH:	PROJ. #:	23-08D
	DRAWING #:	<b>AS11</b>

**AS11**  
 REV. 04



**1 LONGITUDINAL SECTION OF MECHANICAL PAD #2 VAULT**  
 SCALE 3/8"=1'-0"



**2 CROSS SECTION OF MECHANICAL PAD #2 VAULT**  
 SCALE 3/8"=1'-0"





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REGISTERED PROFESSIONAL ENGINEER  
**R. W. LANKINEN**  
 15/01/2025  
 PROVINCE OF ONTARIO  
 STRUCTURAL ONLY

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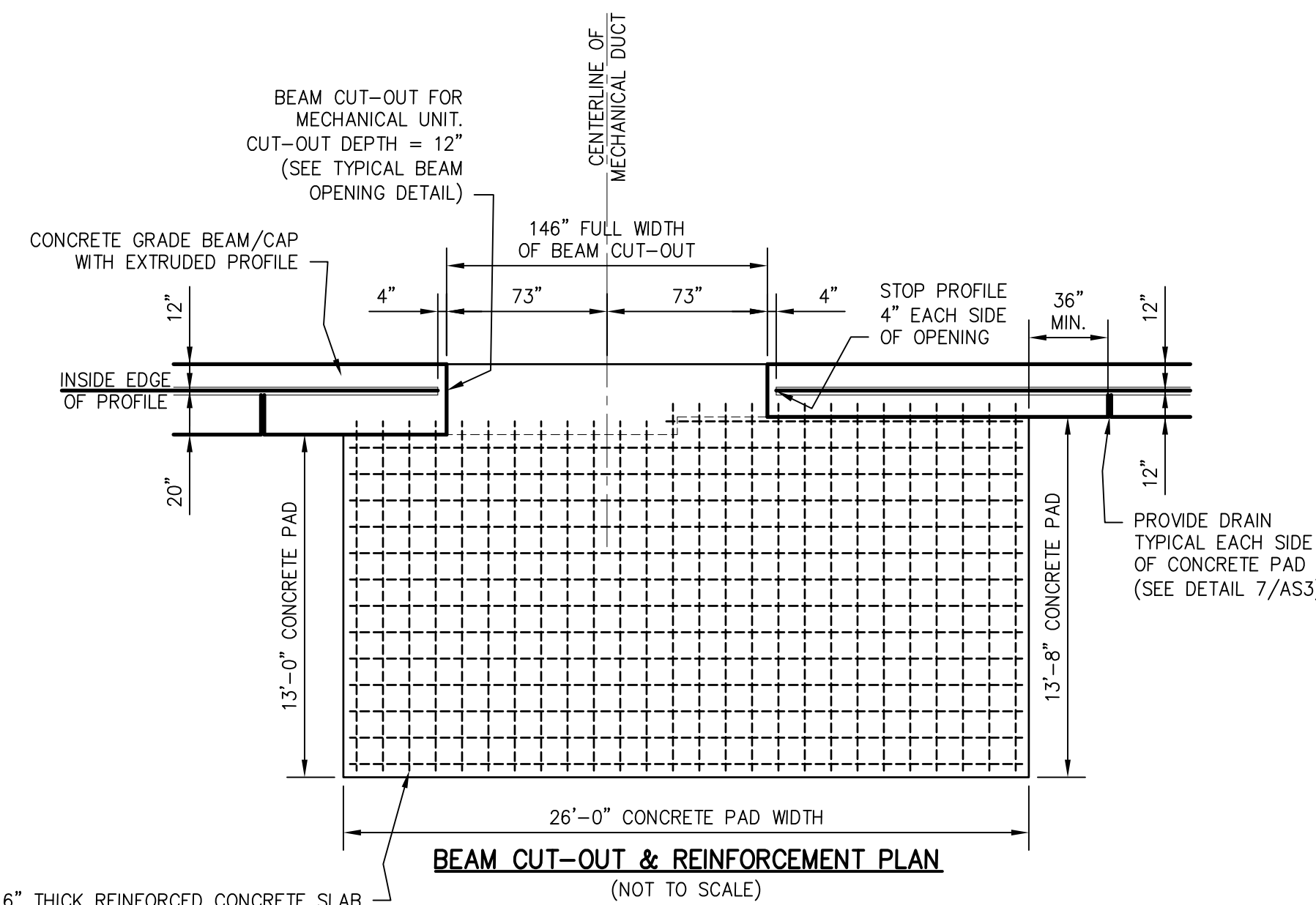
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LOCATION:  
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 BRAMPTON, ON L7A 2Z8

DRAWING:  
**TYPICAL A/C RECIRC UNIT  
 PAD #1 DETAILS**

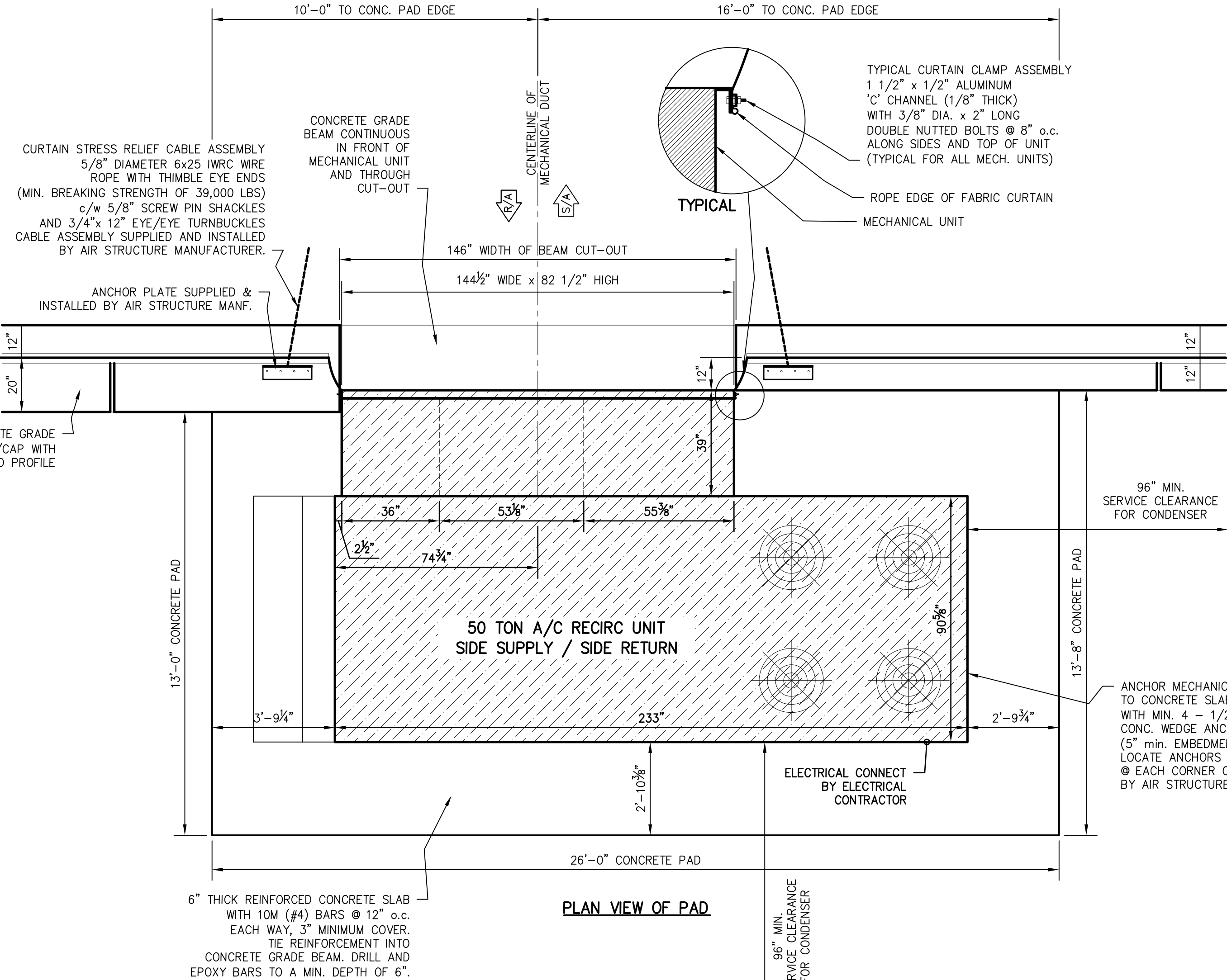
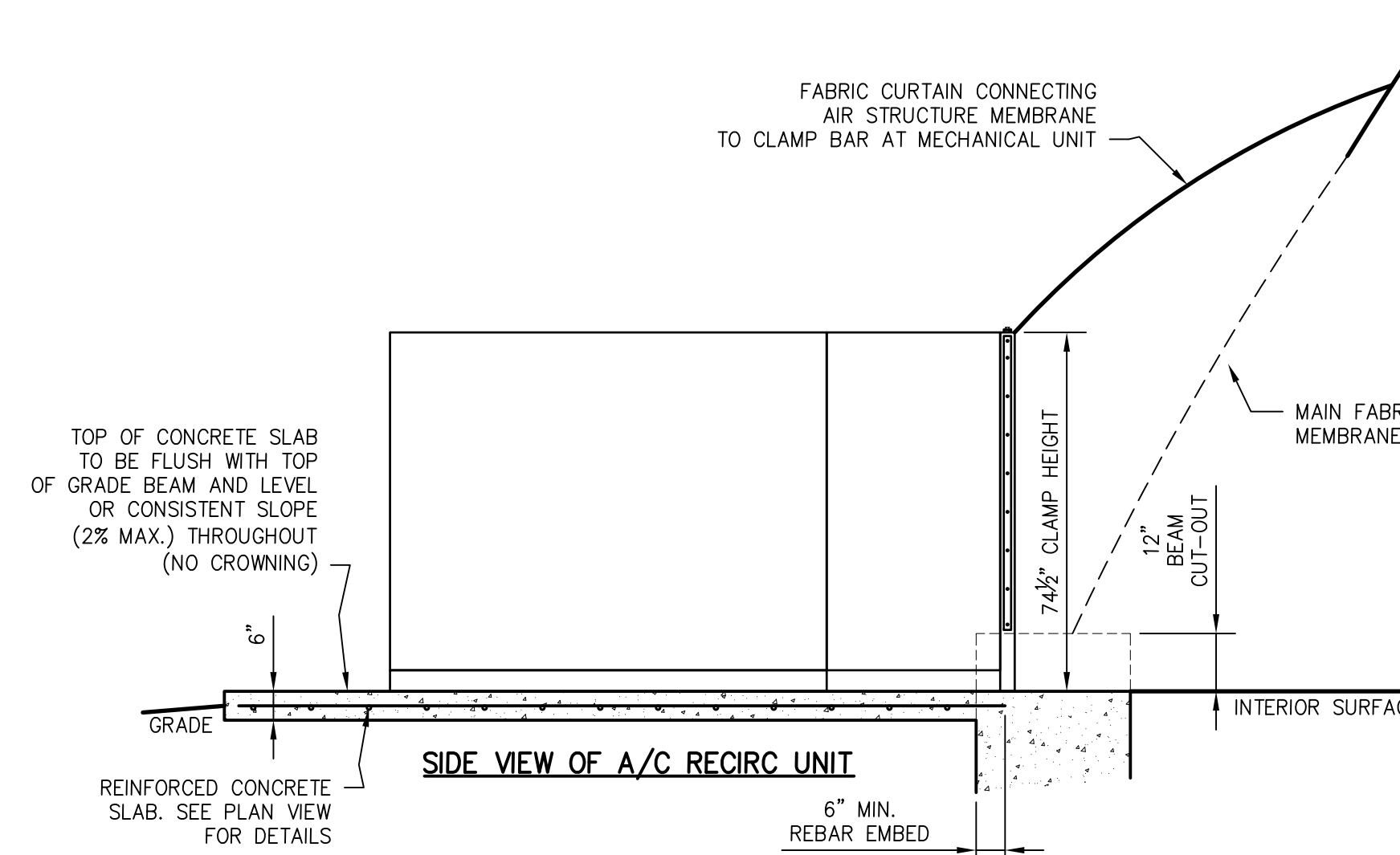
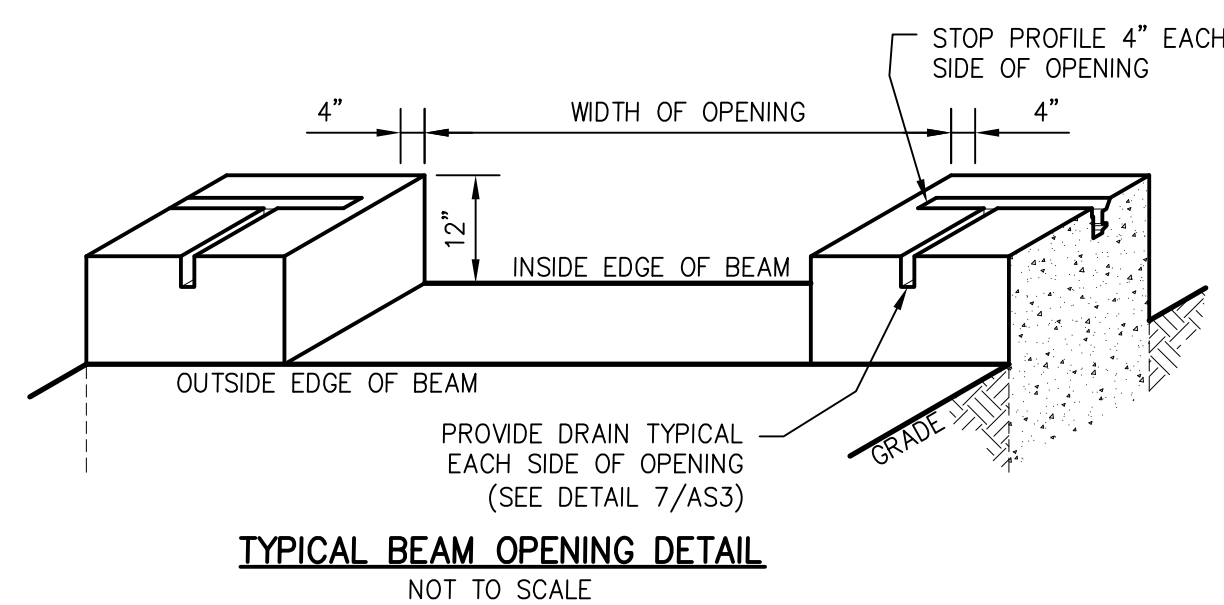
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 DRAWING #:

**AS12**  
 REV. 04

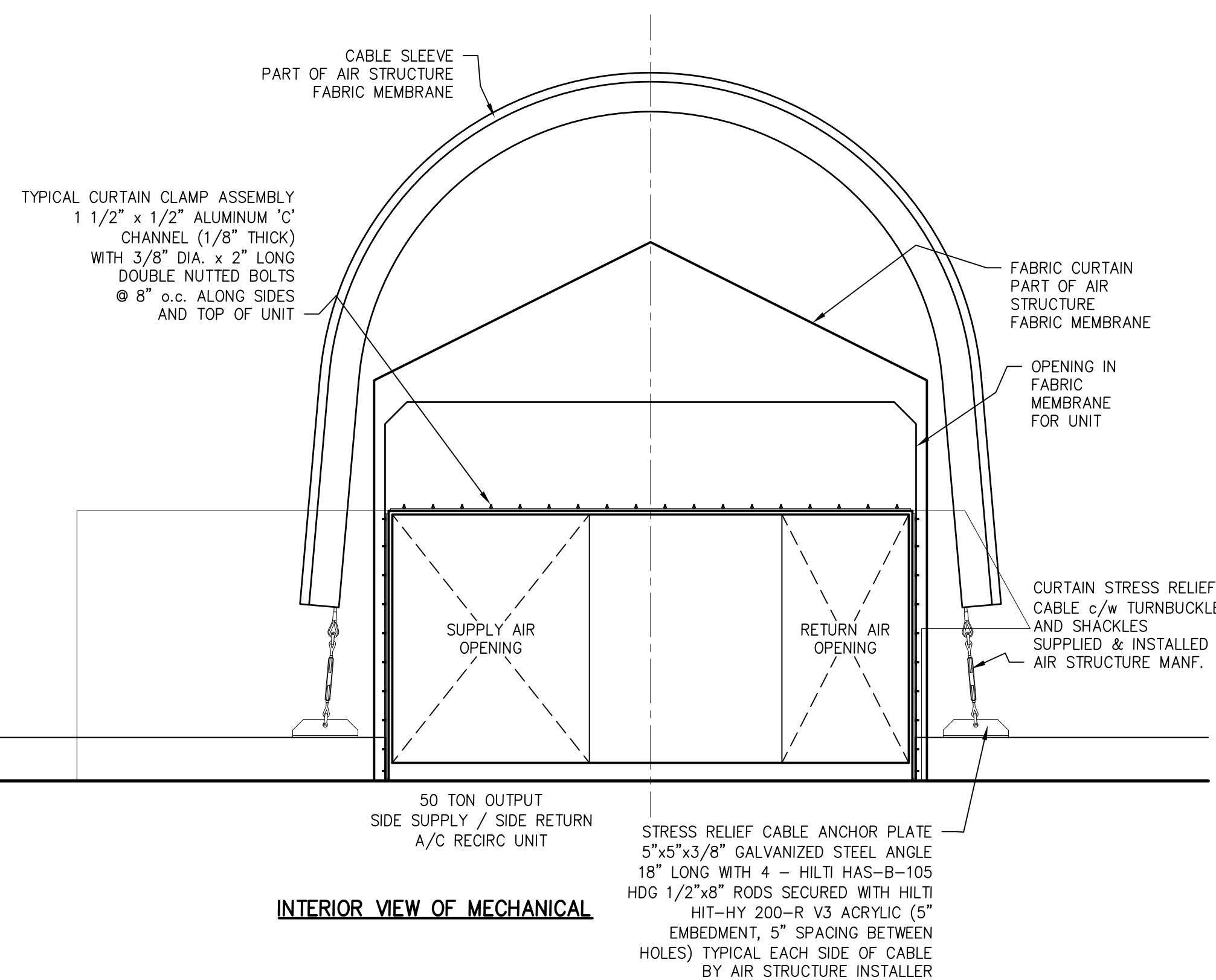


6" THICK REINFORCED CONCRETE SLAB WITH 10M (#4) BARS @ 12" o.c. EACH WAY, 3" MINIMUM COVER. THE REINFORCEMENT INTO CONCRETE GRADE BEAM. DRILL AND EPOXY BARS TO A MIN. DEPTH OF 6".

NOTE: TOP OF MECHANICAL PAD TO BE FLUSH WITH TOP OF GRADE BEAM AND LEVEL OR CONSISTENT SLOPE (SLOPE AWAY FROM DOME) THROUGHOUT



NOTE: TOP OF MECHANICAL PAD TO BE FLUSH WITH TOP OF GRADE BEAM AND LEVEL OR CONSISTENT SLOPE (SLOPE AWAY FROM DOME) THROUGHOUT



1 DETAILS OF TYPICAL A/C RECIRC UNIT PAD #1  
 SCALE 3/8"=1'-0"





REVIEWED AND STAMPED BY ARCHITECT FOR THE FOLLOWING LIFE SAFETY FEATURES:  
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 2- BARRIER FREE DESIGN REQUIREMENTS FOR ENTRANCES, EXITS AND PATH OF TRAVEL  
 3- OCCUPANT LOAD BASED ON NUMBER OF EXITS AND NUMBER OF PLUMBING FIXTURES (WASHROOMS) AVAILABLE IN THE ADJACENT WASHROOM BUILDING.

4	14/01/2025	SEE PAGE C-1 FOR REVISION NOTES
3	29/10/2024	SEE PAGE C-1 FOR REVISION NOTES
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1	25/04/2024	SEE PAGE C-1 FOR REVISION NOTES
NO.		ISSUED FOR COMPLETENESS REVIEW
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 R. J. Burnside & Associates Limited  
 292 Speedvale Avenue West, Unit 20, Guelph, Ontario  
 telephone (519) 823-4995 fax (519) 836-5477  
 www.rjburnside.com

REGISTERED PROFESSIONAL ENGINEER  
**G. W. LARKINEN**  
 15/01/2025  
 PROVINCE OF ONTARIO  
 STRUCTURAL ONLY

**THE FARLEY GROUP**  
 Farley Manufacturing Inc.  
 A division of The Farley Group  
 6 Kerr Crescent  
 Puslinch, ON, Canada N0B 2J0  
 Phone: 1-888-445-3223  
 Fax: 1-888-445-3043  
 Email: man@thefarleygroup.com  
 Creative Space Solutions

CLIENT:  
**CASSIE CAMPBELL  
 COMMUNITY CENTRE DOME  
 CITY FILE #: SPA-2024-0106**

CLIENT ACCEPTANCE  
 SIGNATURE:  
 DATE ACCEPTED:

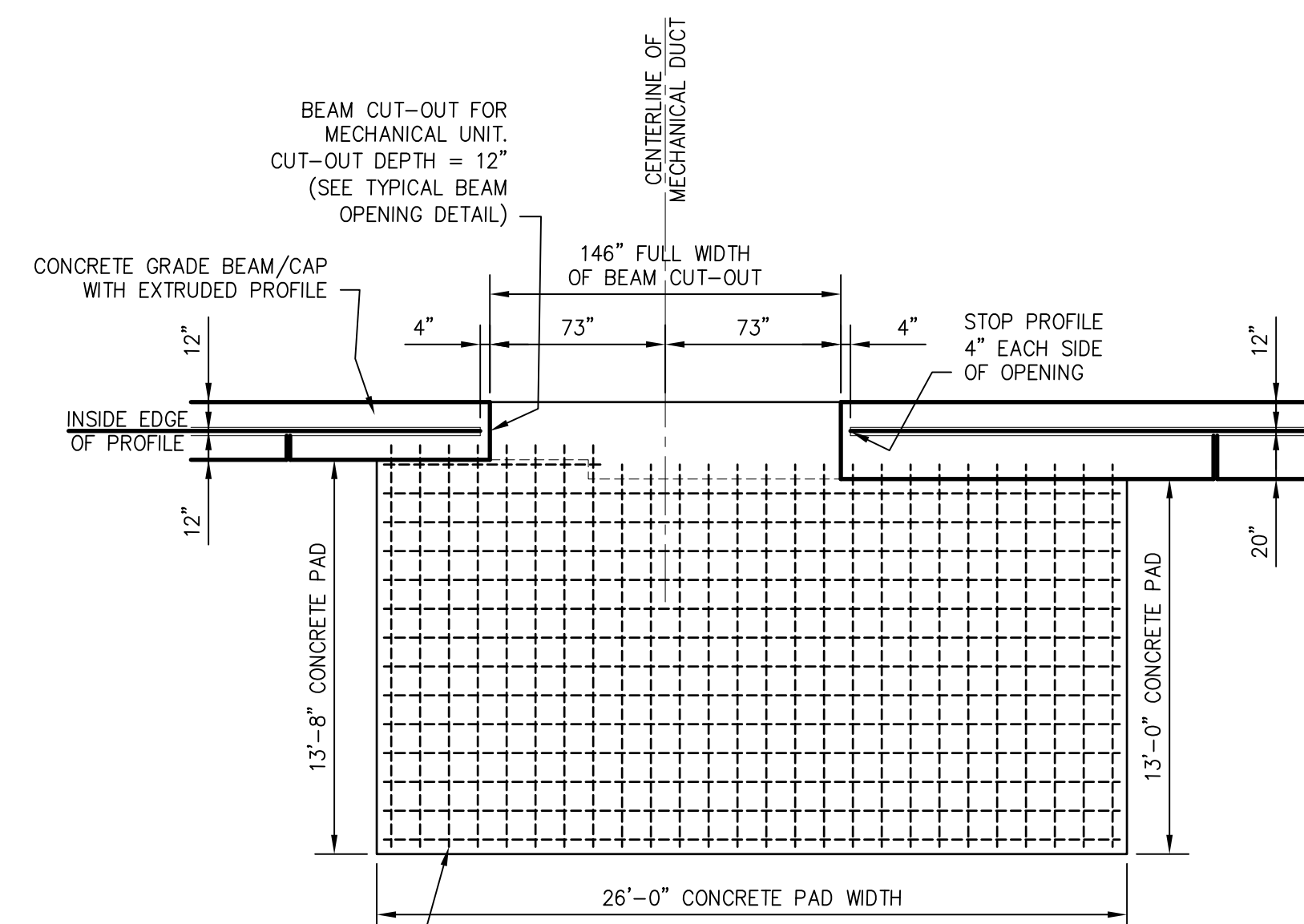
PROJECT:  
**AIR SUPPORTED STRUCTURE  
 FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

DRAWING:  
**TYPICAL A/C RECIRC UNIT  
 PAD #2 DETAILS**

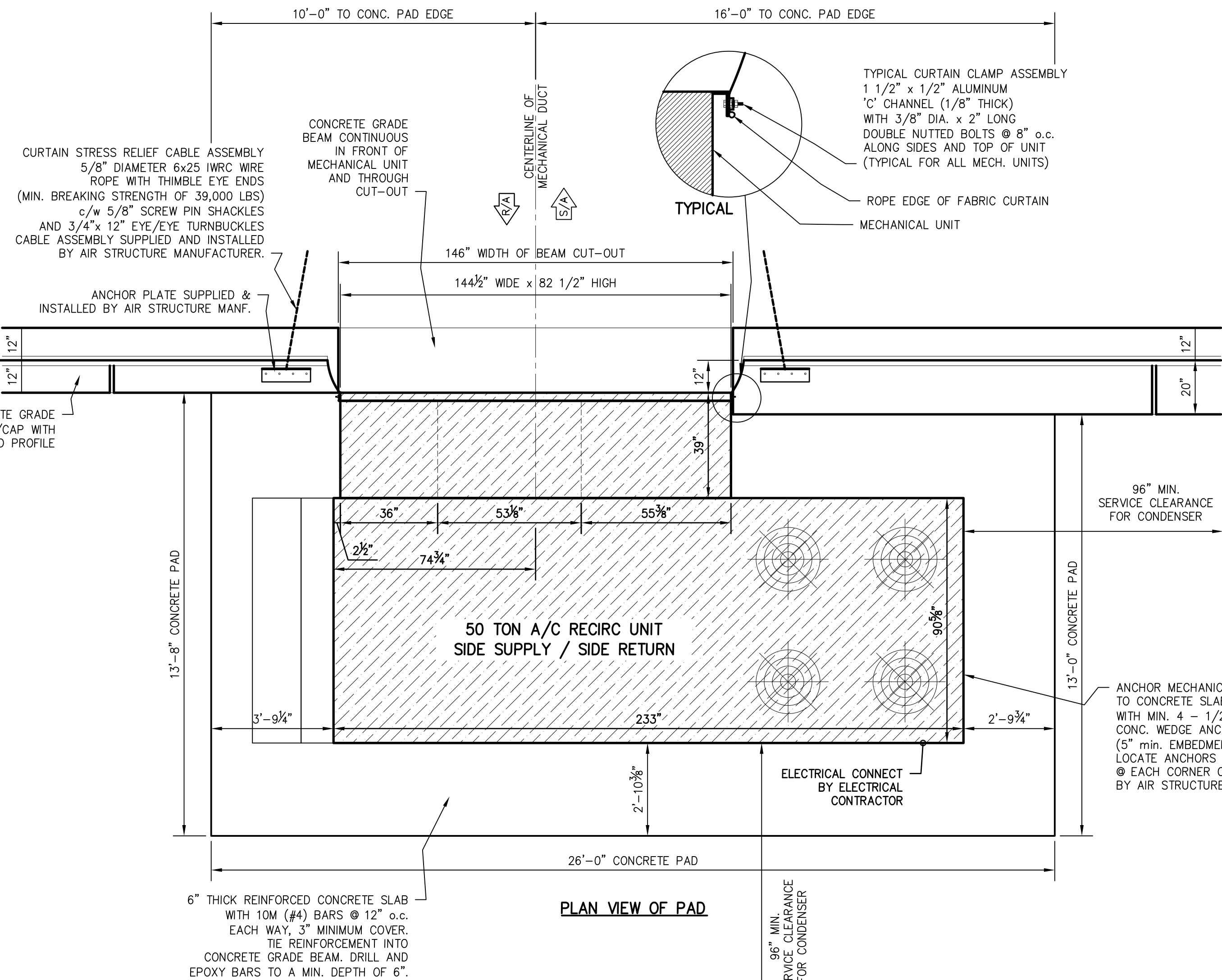
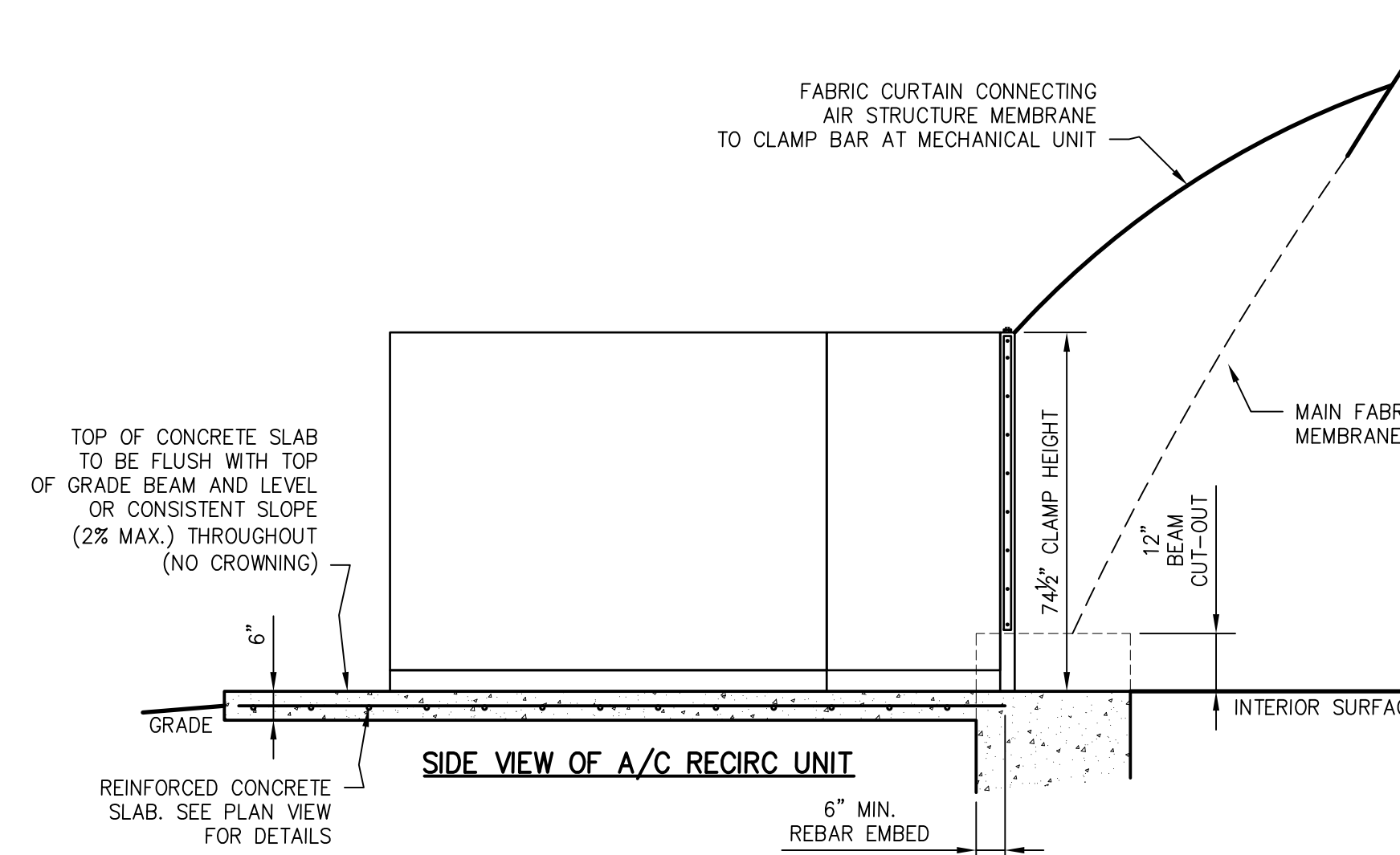
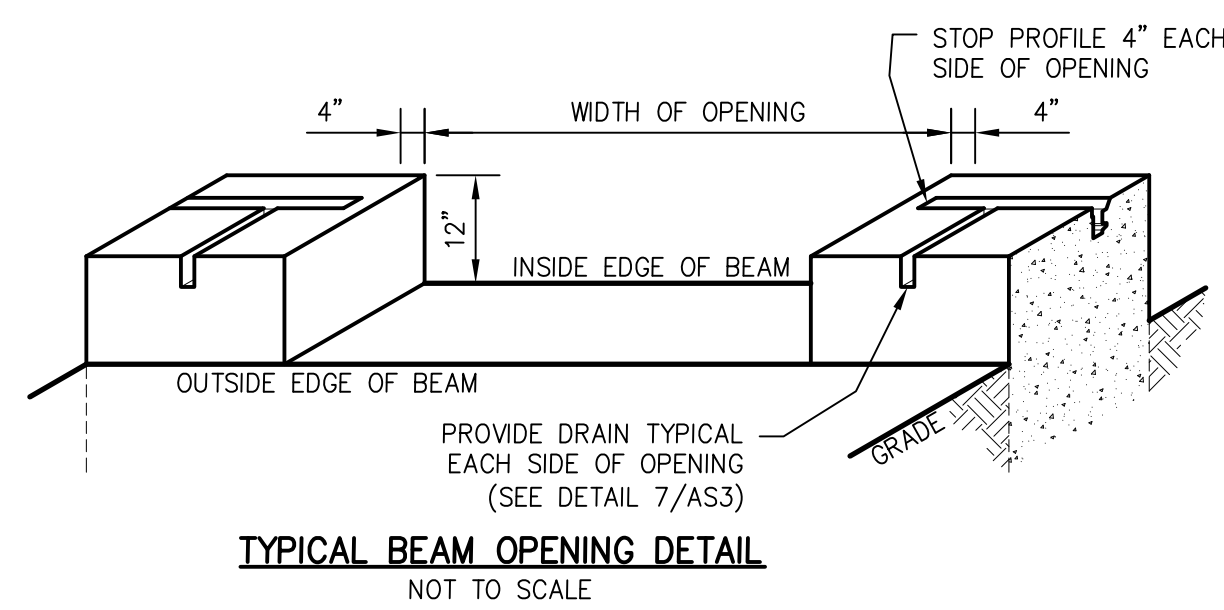
PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING #:

**AS13**  
 REV. 04

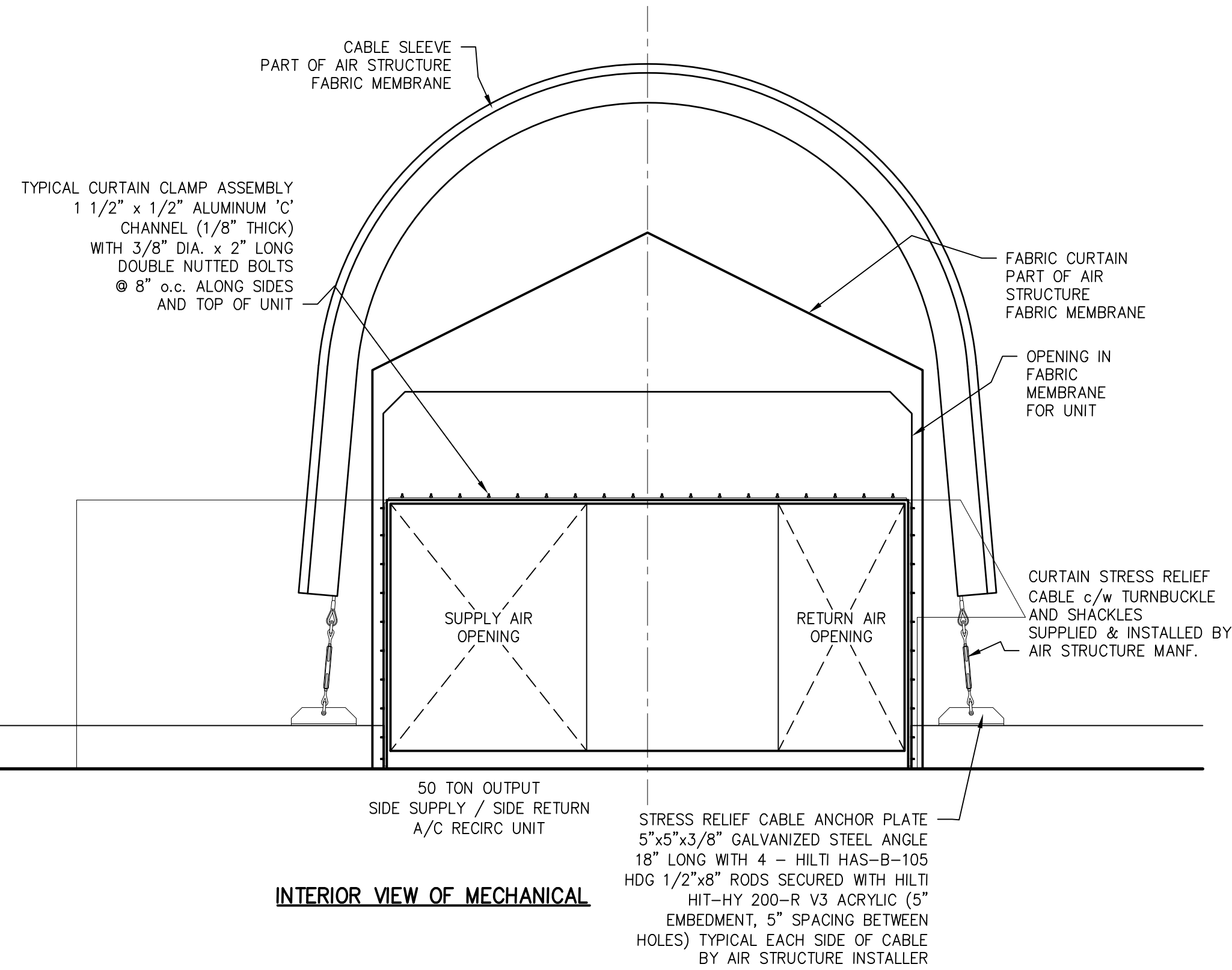


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NOTE: TOP OF MECHANICAL PAD TO BE FLUSH WITH TOP OF GRADE BEAM AND LEVEL OR CONSISTENT SLOPE (SLOPE AWAY FROM DOME) THROUGHOUT



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1 DETAILS OF TYPICAL A/C RECIRC UNIT PAD #2  
 SCALE 3/8"=1'-0"





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 Creative Space Solutions

CLIENT: CASSIE CAMPBELL  
 COMMUNITY CENTRE DOME  
 CITY FILE #: SPA-2024-0106

CLIENT ACCEPTANCE SIGNATURE:  
 DATE ACCEPTED:

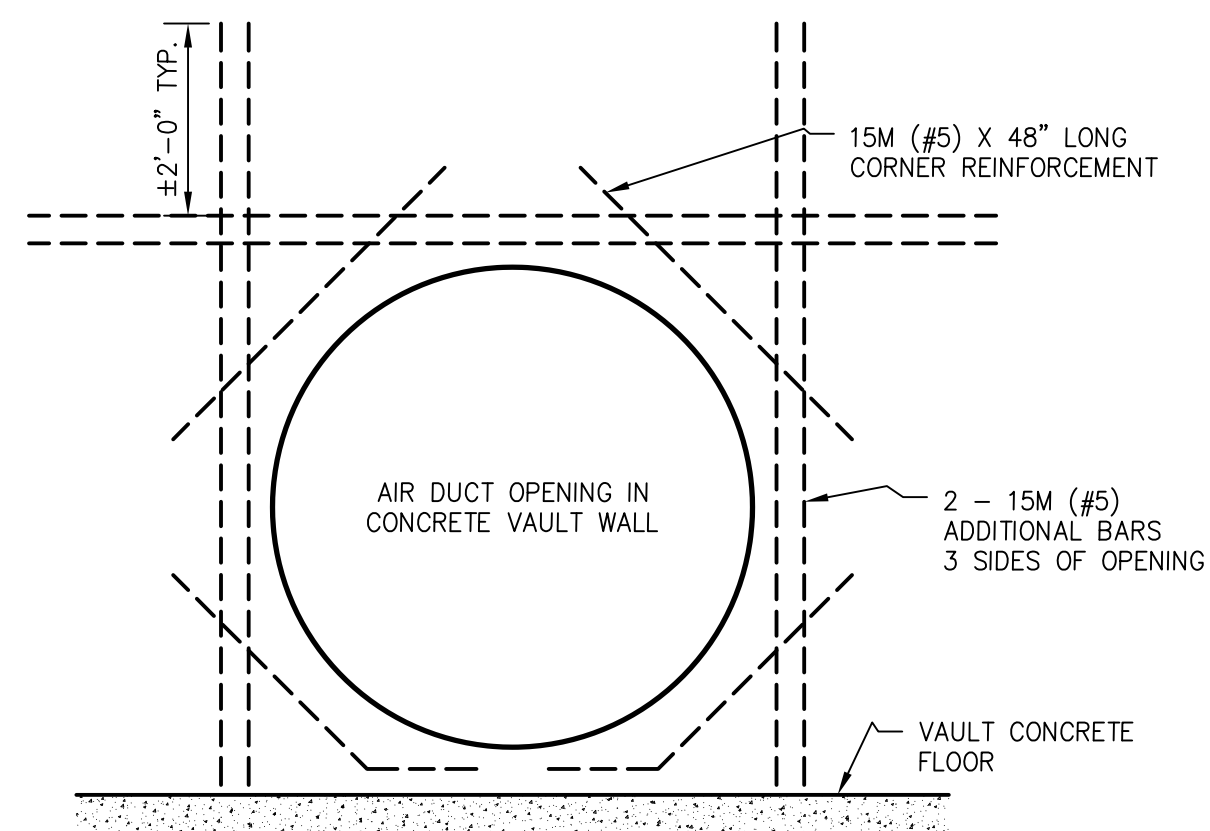
PROJECT: AIR SUPPORTED STRUCTURE FOR MULTI-USE (267'-0" x 482'-0" x 81'-0")

LOCATION: 1060 SANDALWOOD PKWY W. BRAMPTON, ON L7A 2Z8

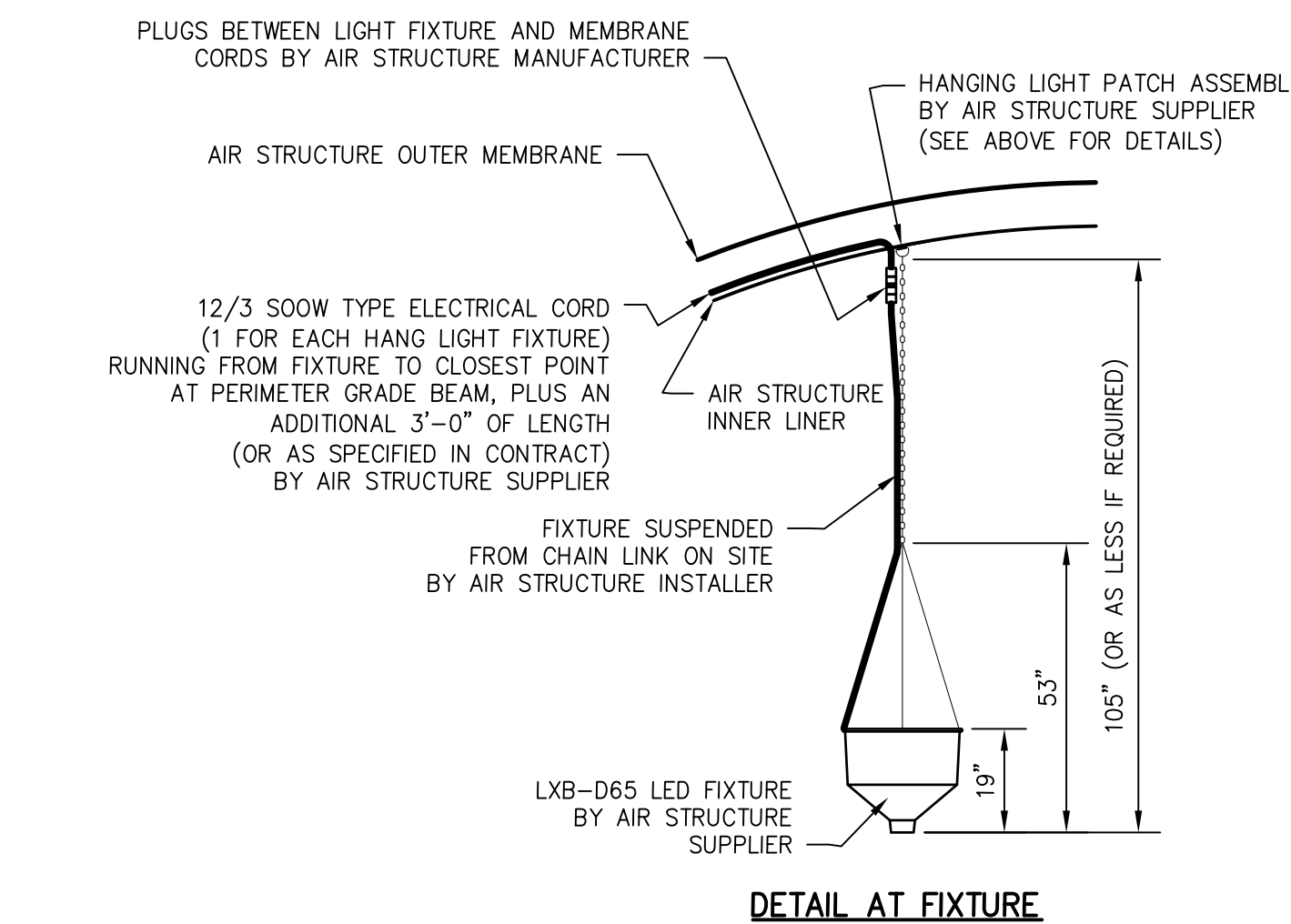
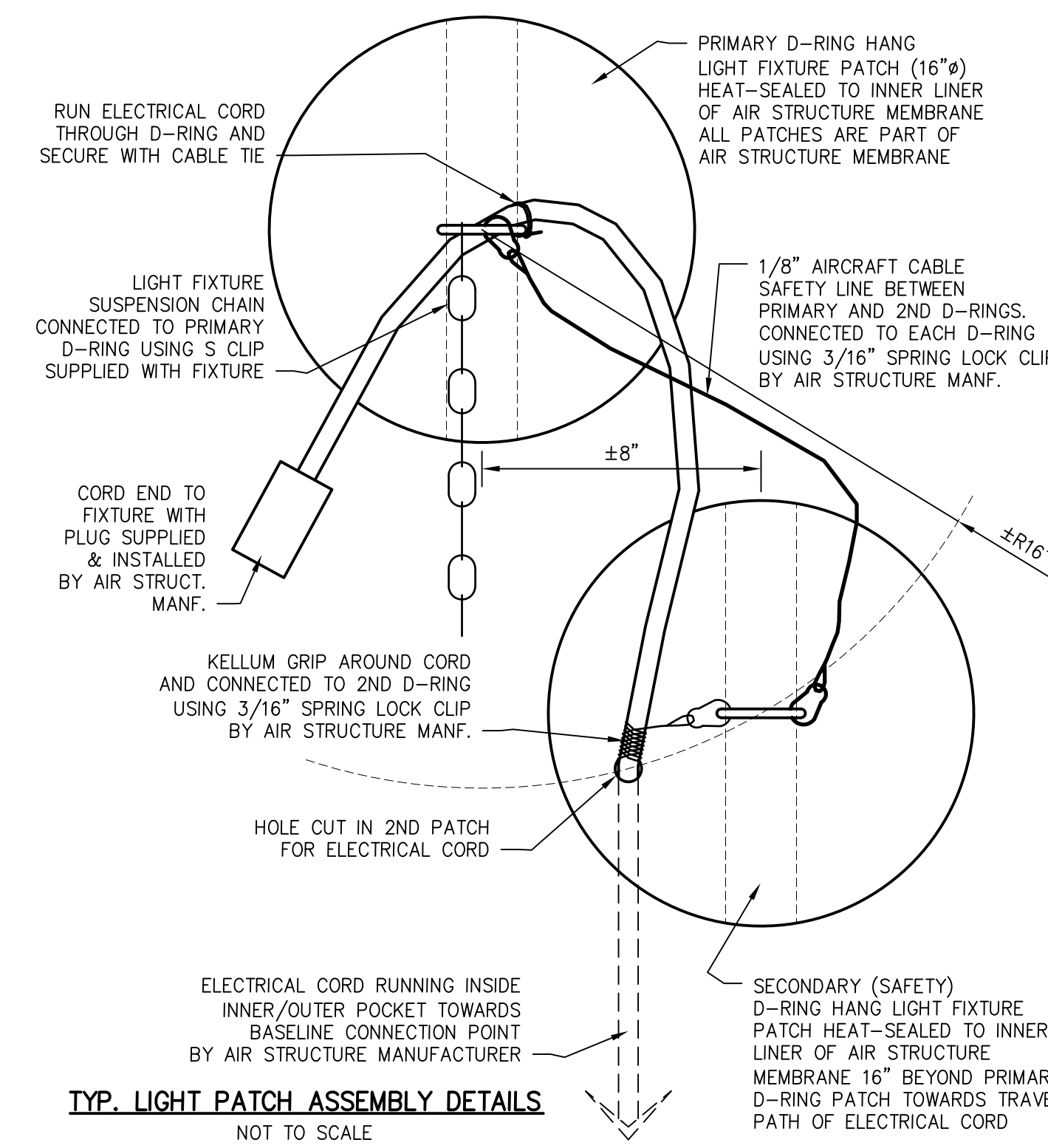
DRAWING: AIR DUCT, UNDERGROUND VAULT GRATE AND HANG LIGHT DETAILS

PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING #:

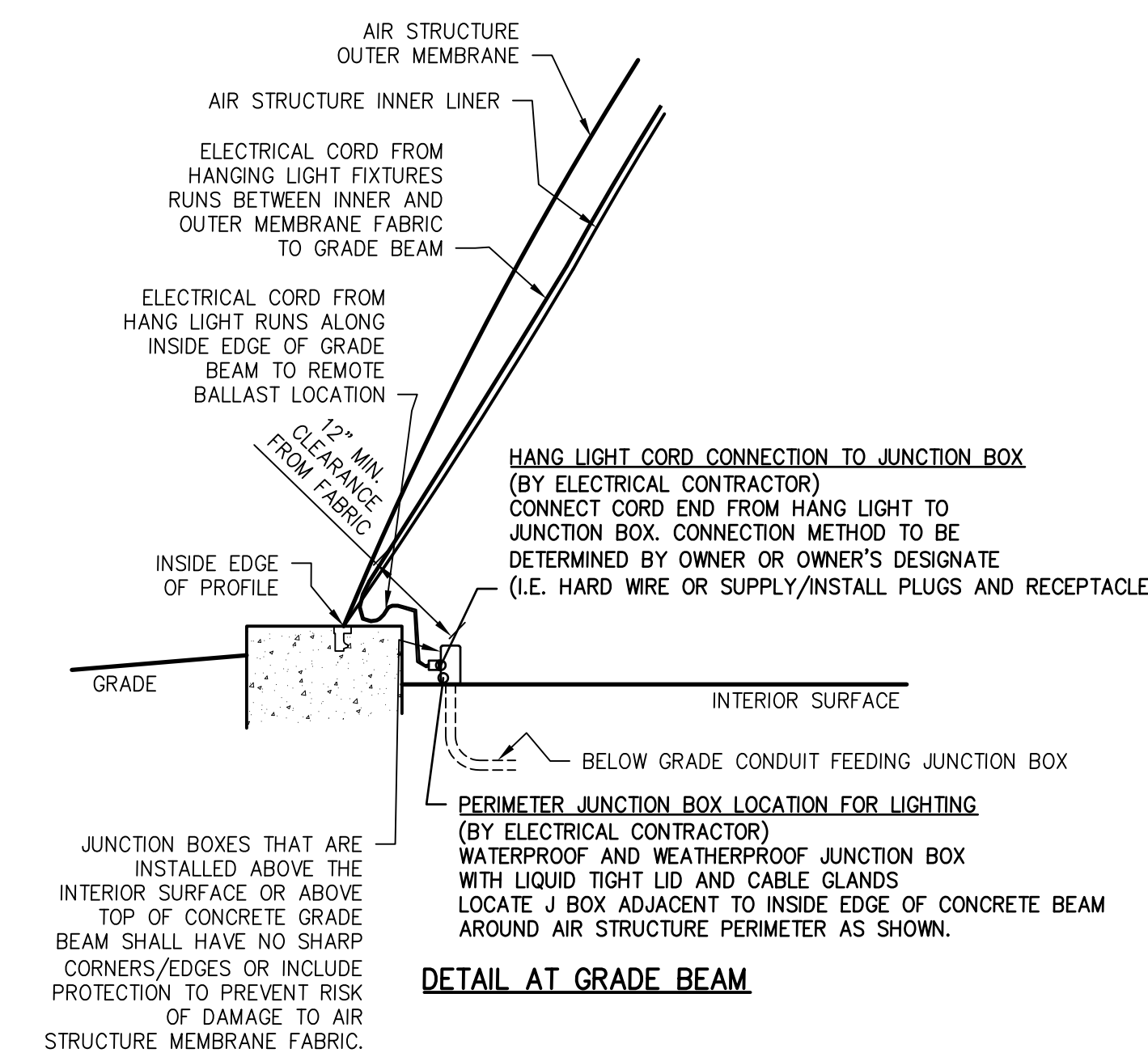
**AS14**  
 REV. 04



1 AS14 REINFORCEMENT DETAILS FOR AIR DUCT OPENINGS  
 SCALE 1/2" = 1'-0"

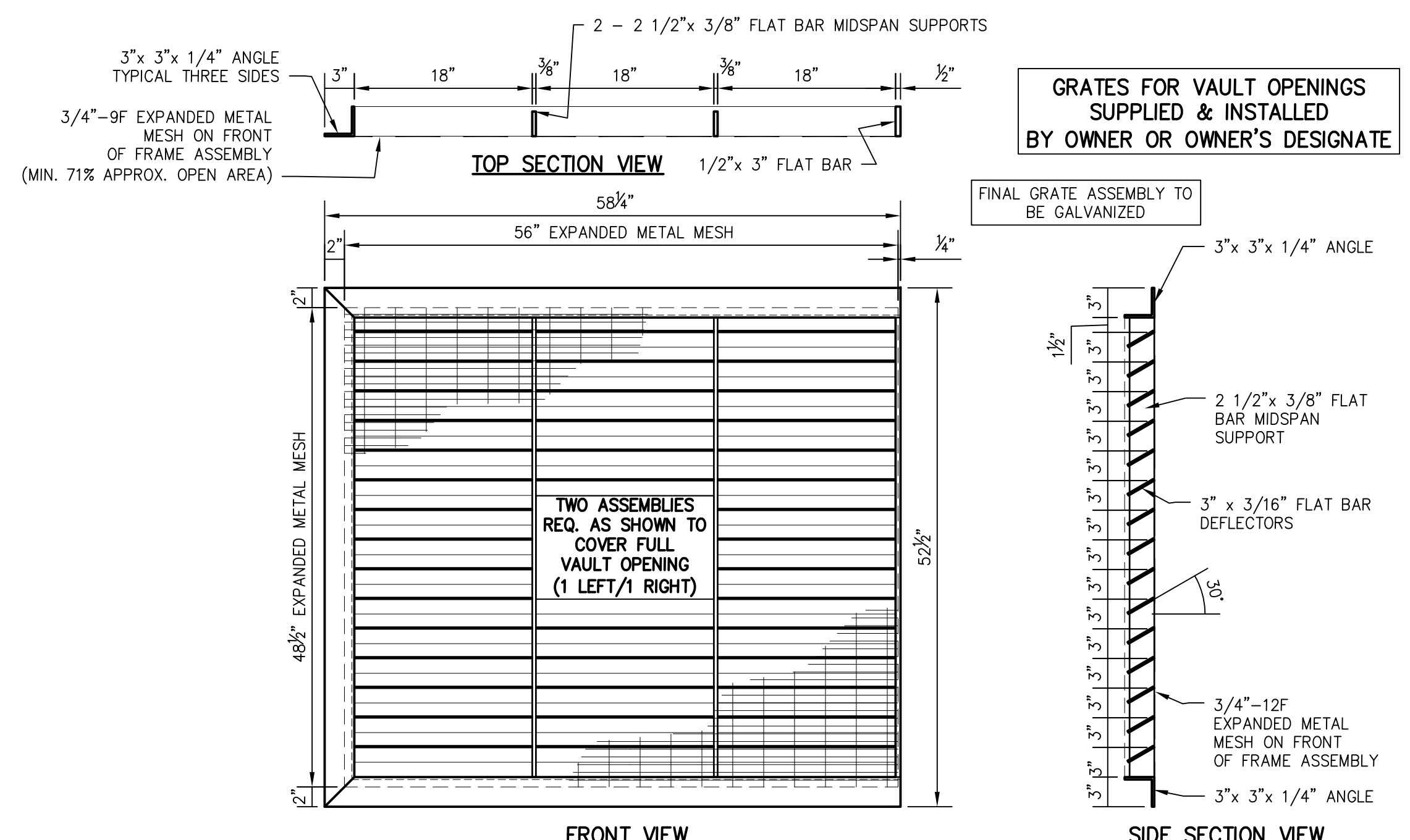


DETAIL AT FIXTURE



DETAIL AT GRADE BEAM

3 AS14 TYPICAL HANGING LIGHT FIXTURE  
 SCALE 3/8" = 1'-0"



2 AS14 DETAIL OF STANDBY VAULT GRATE  
 SCALE 1" = 1'-0"



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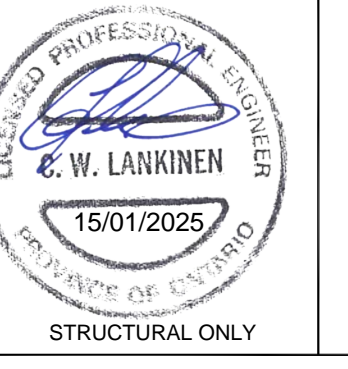
4	14/01/2025	SEE PAGE C-1 FOR REVISION NOTES
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CLIENT:  
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 CITY FILE #: SPA-2024-0106**

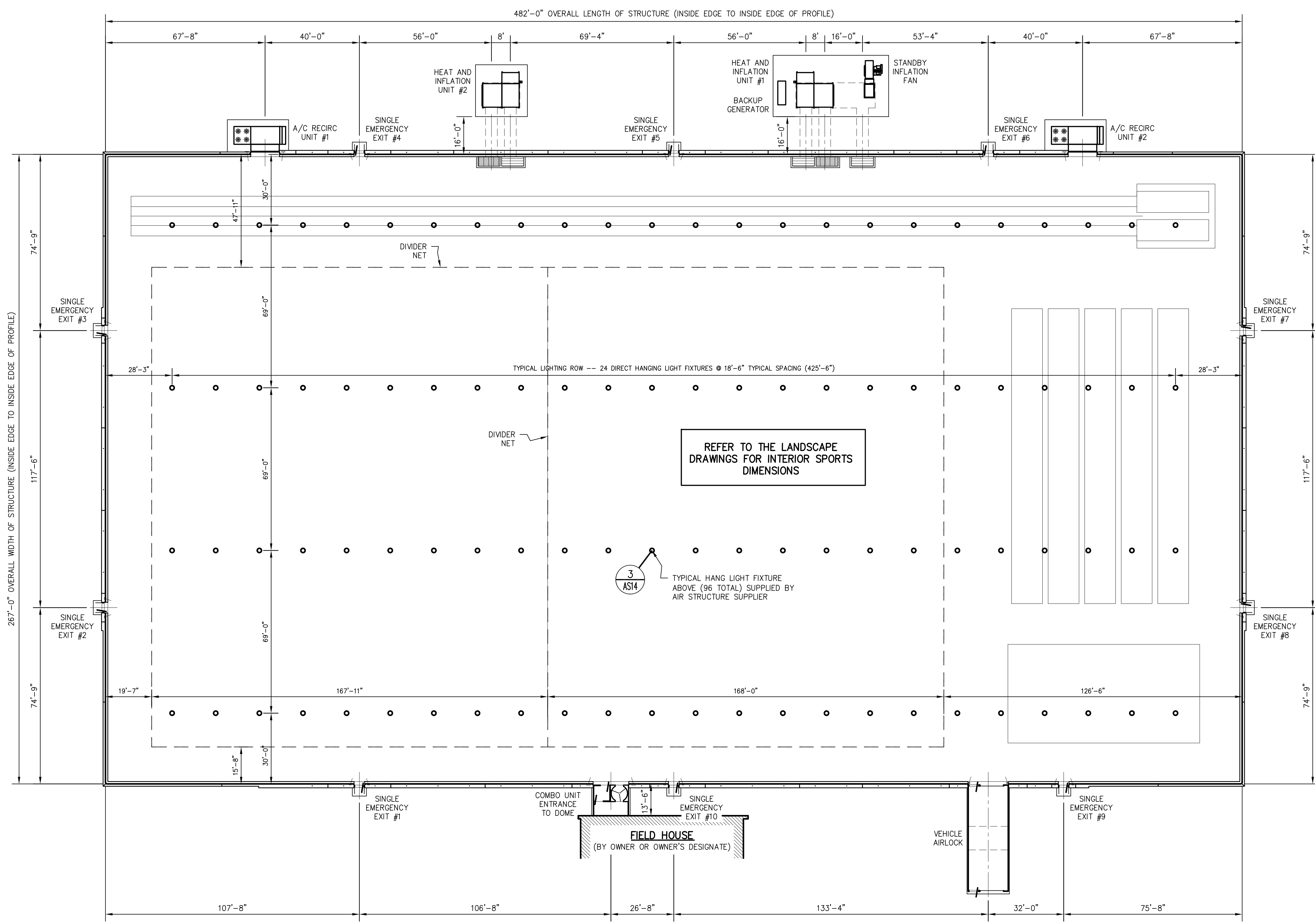
CLIENT ACCEPTANCE  
 SIGNATURE:  
 DATE ACCEPTED:

PROJECT:  
**AIR SUPPORTED STRUCTURE  
 FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

DRAWING:  
**INTERIOR PLAN LAYOUT**

PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING # **AS15**  
 REV. 04



**FLOOR PLAN LAYOUT OF STRUCTURE (INTERIOR VIEW)**  
 SCALE 1/24"=1'-0"



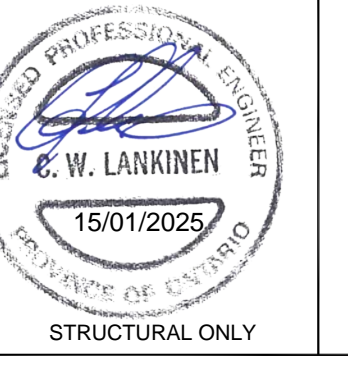


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CLIENT:  
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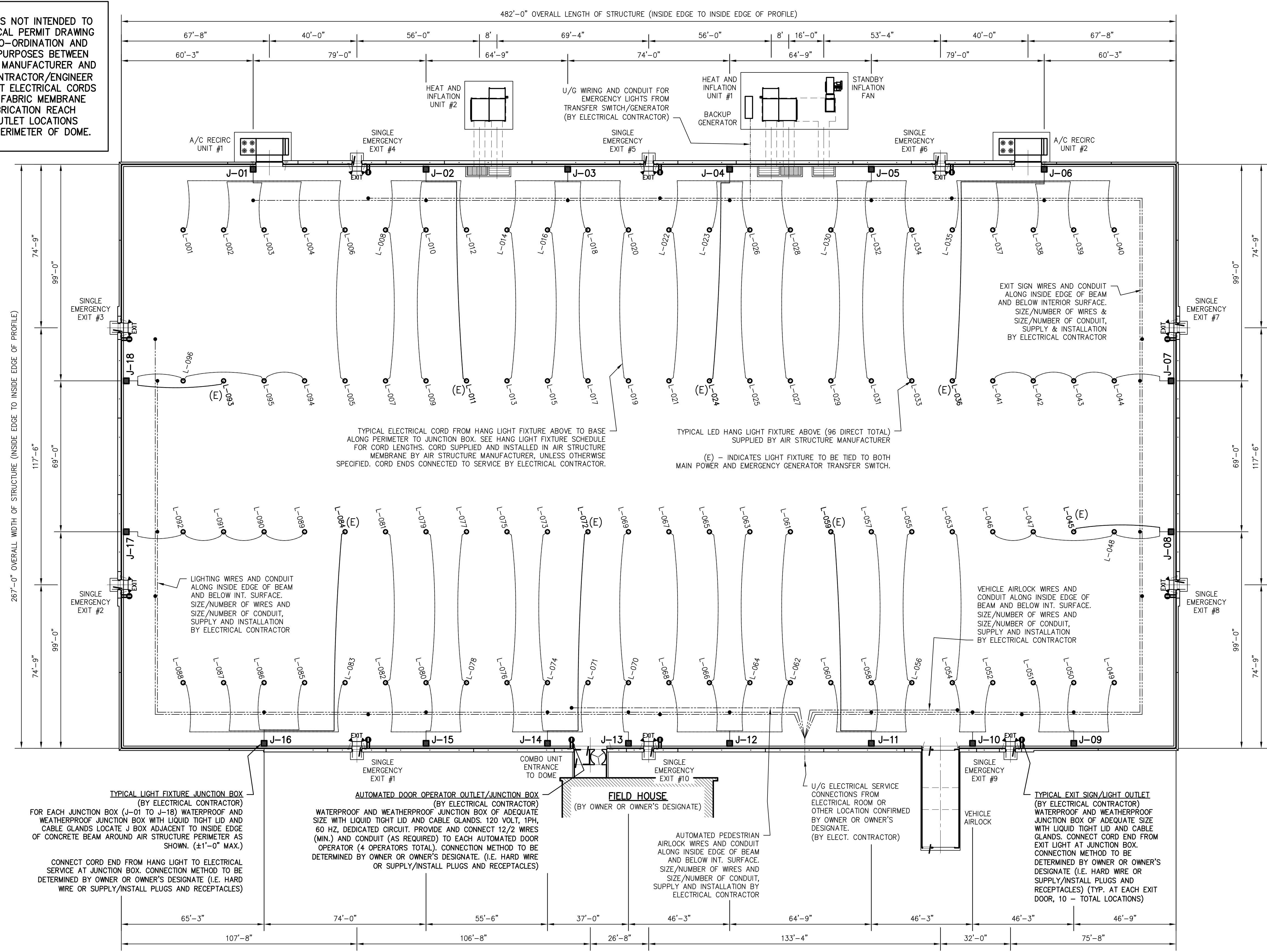
CLIENT ACCEPTANCE SIGNATURE:  
 DATE ACCEPTED:

PROJECT:  
**AIR SUPPORTED STRUCTURE FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**  
 LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

**OUTLET LOCATION PLAN**

PROJECT NORTH:   
 DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH:   
 PROJ. #: 23-08D  
 DRAWING #:  
**AS16**  
 REV. 04

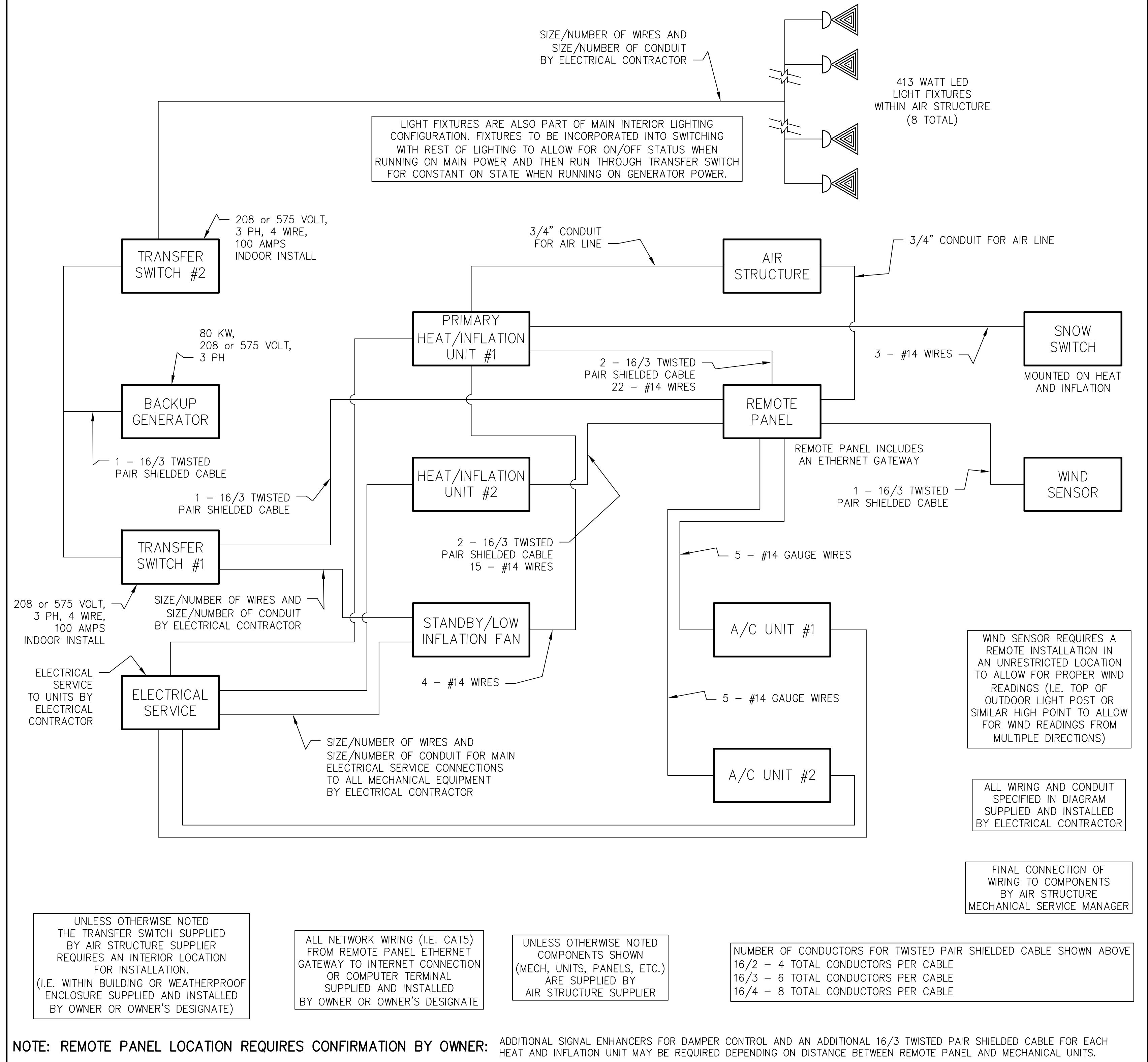
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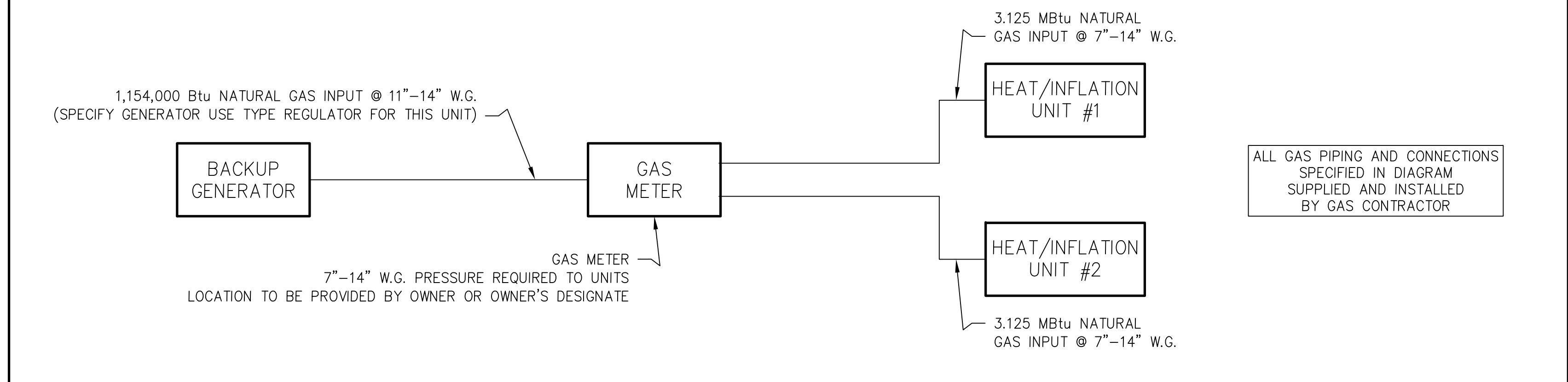
**AIR STRUCTURE LIGHTING PLAN LAYOUT (OUTLET LOCATIONS)**  
 SCALE 1/24"=1'-0"



**MECHANICAL CONTROL WIRING AND CONDUIT DIAGRAM**



**MECHANICAL NATURAL GAS CONNECTION DIAGRAM**



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CLIENT ACCEPTANCE  
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**AIR SUPPORTED STRUCTURE  
 FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

DRAWING:  
**MECHANICAL AND  
 ELECTRICAL DIAGRAMS**

PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE:

PLAN NORTH: PROJ. #: 23-08D  
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**AS17**  
 REV. 04





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CLIENT ACCEPTANCE  
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 PROJECT:

**AIR SUPPORTED STRUCTURE  
 FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

DRAWING:  
**MECHANICAL AND  
 ELECTRICAL NOTES**

PROJECT NORTH: DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE:  
 PLAN NORTH: PROJ. #: 23-08D  
 DRAWING #:  
**AS18**  
 REV. 04

**AIR STRUCTURE COMPONENT DATA (TYP.)**

COMPONENTS SUPPLIED BY AIR STRUCTURE SUPPLIER, UNLESS OTHERWISE SPECIFIED

PRIMARY HEAT AND INFLATION UNIT (DATA SHOWN IS FOR EACH UNIT)		
NATURAL GAS DATA	INPUT	3.125 MBtu
	OUTPUT	2.500 MBtu
	PRESSURE	7"-14" W.G.
ELECTRICAL DATA	MAIN SUPPLY	208 VOLTS, 3PH, 60HZ - FLA = 82, MCA = 90 or 575 VOLTS, 3PH, 60HZ - FLA = 30, MCA = 33
	OTHER	1 - 120 VOLT, SINGLE Ø, 15 AMPS GFI RECEPTACLE FOR SERVICE OUTLET AND UNIT LIGHTING

STANDBY AND LOW PRESSURE INFLATION UNIT BI-542 c/w 30 HP		
ELECTRICAL DATA	MAIN SUPPLY	208 VOLTS, 3PH, 60HZ - FLA = 94, MCA = 104 or 575 VOLTS, 3PH, 60HZ - FLA = 34, MCA = 38

BACKUP GENERATOR WITH 2 TRANSFER SWITCHES (LIFE SAFETY FOR STANDBY FAN & LIGHTS)		
TYPE	SIZE	80 KW, 208 or 575 VOLTS, 3PH, 60HZ
NATURAL GAS DATA	INPUT	1154 CUBIC FEET/HOUR
	PRESSURE	11"-14" W.G. (SPECIFY GENERATOR USE TYPE REGULATOR)
ELECTRICAL DATA	OTHER	1 - 208 VOLT, SINGLE Ø CIRCUIT, 60 AMPS FOR BLOCK HEATER, BATTERY CHARGER AND LIFE SAFETY COMPONENTS

50 TON AIR CONDITIONING RECIRCULATION UNIT (DATA SHOWN IS FOR EACH UNIT)		
ELECTRICAL DATA	CAPACITY	50 TONNES
	MAIN SUPPLY	208 VOLTS, 3PH, 60HZ - MCA = 240, MOP = 250 or 575 VOLTS, 3PH, 60HZ - MCA = 102, MOP = 110

HANG LIGHT FIXTURES (DATA SHOWN IS FOR EACH FIXTURE/BALLAST)		
ELECTRICAL DATA	FIXTURE TYPE	LUXOR LXB-D65 413W LED HANGING FIXTURE
	MAIN SUPPLY	120 VOLTS, 1PH, 60 HZ - FLA = 3.44 or 208 VOLTS, 1PH, 60 HZ - FLA = 1.98 or 347 VOLTS, 1PH, 60 HZ - FLA = 1.14

EMERGENCY EXIT SIGN LIGHTING (DATA SHOWN IS FOR EACH UNIT)		
ELECTRICAL DATA	FIXTURE TYPE	32 WATT COMBINATION EMERGENCY LIGHT/SIGN WITH BATTERY
	MAIN SUPPLY	120 VOLT, SINGLE Ø, 15 AMP, DEDICATED CIRCUIT

PED. AIRLOCK AUTOMATED DOOR OPERATORS (DATA SHOWN IS FOR EACH UNIT)		
ELECTRICAL DATA	FIXTURE TYPE	BESAM TYPE SW200i AUTOMATED DOOR OPERATOR
	MAIN SUPPLY	120 VOLT, 1PH, 60 HZ, 20 AMP DEDICATED CIRCUIT FOR EACH OPERATOR

VEHICLE AIRLOCK		
ELECTRICAL DATA	OVERHEAD DOOR OPERATORS	2 - 120 VOLT, SINGLE Ø GFI CIRCUIT, 15 AMPS ELECTRIC DOOR OPENERS (1 EACH END OF AIRLOCK)
	OTHER	AIRLOCK INTERIOR LIGHTING BY OWNER OR OWNER'S DESIGNATE (IF REQUIRED)

MISCELLANEOUS		
OTHER	THERE SHOULD BE CONSIDERATION TAKEN FOR ANY ADDITIONAL POWER REQUIREMENTS FOR THE DOME IE: SCORE BOARDS, ELECTRICAL OUTLETS, SUMP PUMPS, ETC. PLEASE NOTE THAT IF NATURAL GAS OR PROPANE ARE NOT AVAILABLE THE PROPOSED LOW INFLATION STANDBY UNITS WILL HAVE TO BE MODIFIED AND OIL FIRED GENERATORS WILL BE REQUIRED TO PROVIDE EMERGENCY POWER.	

ELECTRICAL LEGEND		
	FLUORESCENT LIGHT FIXTURE TYPE AS INDICATED (N/L DENOTES NIGHT LIGHT)	
	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED	
	COMBINATION EMERGENCY LIGHT, EXIT SIGN & BATTERY UNIT. ARROWS DENOTE DIRECTION	
	COMBINATION EMERGENCY LIGHTING AND BATTERY UNIT	
	15A-120 VOLT DUPLEX WALL RECEPTACLE (20A-DENOTES 20A "T" TYPE RECEPTACLE)	

**LIGHT FIXTURE SCHEDULE (UNLESS INDICATED, HANG LIGHT FIXTURE PATCH & ELECTRICAL CORD ARE INSTALLED DURING MEMBRANE FABRICATION AT THE FACTORY)**

LIGHT FIXTURE	OUTLET LOCATION	LIGHT TYPE	ARC LENGTH TO GROUND	LENGTH ALONG BEAM	TOTAL CORD LENGTH	LIGHT FIXTURE	OUTLET LOCATION	LIGHT TYPE	ARC LENGTH TO GROUND	LENGTH ALONG BEAM	TOTAL CORD LENGTH
L-001	J-01	Hanging, DIRECT	53 ft - 0 in	35 ft - 0 in	88 ft - 0 in	L-049	J-09	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in
L-002	J-01	Hanging, DIRECT	53 ft - 0 in	17 ft - 0 in	70 ft - 0 in	L-050	J-09	Hanging, DIRECT	53 ft - 0 in	3 ft - 0 in	56 ft - 0 in
L-003	J-01	Hanging, DIRECT	53 ft - 0 in	8 ft - 0 in	61 ft - 0 in	L-051	J-09	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in
L-004	J-01	Hanging, DIRECT	53 ft - 0 in	27 ft - 0 in	80 ft - 0 in	L-052	J-10	Hanging, DIRECT	53 ft - 0 in	13 ft - 0 in	66 ft - 0 in
L-005	J-01	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-053	J-10	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-006	J-01	Hanging, DIRECT	53 ft - 0 in	45 ft - 0 in	98 ft - 0 in	L-054	J-10	Hanging, DIRECT	53 ft - 0 in	13 ft - 0 in	66 ft - 0 in
L-007	J-02	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-055	J-11	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-008	J-02	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in	L-056	J-11	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in
L-009	J-02	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-057	J-11	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-010	J-02	Hanging, DIRECT	53 ft - 0 in	3 ft - 0 in	56 ft - 0 in	L-058	J-11	Hanging, DIRECT	53 ft - 0 in	3 ft - 0 in	56 ft - 0 in
(E) L-011	J-02	Hanging, DIRECT	133 ft - 0 in	22 ft - 0 in	155 ft - 0 in	(E) L-059	J-11	Hanging, DIRECT	133 ft - 0 in	22 ft - 0 in	155 ft - 0 in
L-012	J-02	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in	L-060	J-11	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in
L-013	J-03	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-061	J-12	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-014	J-03	Hanging, DIRECT	53 ft - 0 in	31 ft - 0 in	84 ft - 0 in	L-062	J-12	Hanging, DIRECT	53 ft - 0 in	31 ft - 0 in	84 ft - 0 in
L-015	J-03	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-063	J-12	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-016	J-03	Hanging, DIRECT	53 ft - 0 in	13 ft - 0 in	66 ft - 0 in	L-064	J-12	Hanging, DIRECT	53 ft - 0 in	13 ft - 0 in	66 ft - 0 in
L-017	J-03	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-065	J-12	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-018	J-03	Hanging, DIRECT	53 ft - 0 in	13 ft - 0 in	66 ft - 0 in	L-066	J-12	Hanging, DIRECT	53 ft - 0 in	13 ft - 0 in	66 ft - 0 in
L-019	J-03	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-067	J-12	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-020	J-03	Hanging, DIRECT	53 ft - 0 in	31 ft - 0 in	84 ft - 0 in	L-068	J-12	Hanging, DIRECT	53 ft - 0 in	31 ft - 0 in	84 ft - 0 in
L-021	J-04	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-069	J-13	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-022	J-04	Hanging, DIRECT	53 ft - 0 in	13 ft - 0 in	66 ft - 0 in	L-070	J-13	Hanging, DIRECT	53 ft - 0 in	3 ft - 0 in	56 ft - 0 in
L-023	J-04	Hanging, DIRECT	83 ft - 0 in	13 ft - 0 in	84 ft - 0 in	L-071	J-14	Hanging, DIRECT	83 ft - 0 in	22 ft - 0 in	75 ft - 0 in
(E) L-024	J-04	Hanging, DIRECT	133 ft - 0 in	13 ft - 0 in	146 ft - 0 in	(E) L-072	J-14	Hanging, DIRECT	133 ft - 0 in	22 ft - 0 in	155 ft - 0 in
L-025	J-04	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-073	J-14	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-026	J-04	Hanging, DIRECT	53 ft - 0 in	13 ft - 0 in	66 ft - 0 in	L-074	J-14	Hanging, DIRECT	53 ft - 0 in	3 ft - 0 in	56 ft - 0 in
L-027	J-04	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-075	J-14	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-028	J-04	Hanging, DIRECT	53 ft - 0 in	31 ft - 0 in	84 ft - 0 in	L-076	J-14	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in
L-029	J-05	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-077	J-15	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-030	J-05	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in	L-078	J-15	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in
L-031	J-05	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-079	J-15	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-032	J-05	Hanging, DIRECT	53 ft - 0 in	3 ft - 0 in	56 ft - 0 in	L-080	J-15	Hanging, DIRECT	53 ft - 0 in	3 ft - 0 in	56 ft - 0 in
L-033	J-05	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in	L-081	J-15	Hanging, DIRECT	83 ft - 0 in	3 ft - 0 in	86 ft - 0 in
L-034	J-05	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in	L-082	J-15	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in
L-035	J-06	Hanging, DIRECT	53 ft - 0 in	45 ft - 0 in	98 ft - 0 in	L-083	J-16	Hanging, DIRECT	53 ft - 0 in	40 ft - 0 in	93 ft - 0 in
(E) L-036	J-06	Hanging, DIRECT	133 ft - 0 in	45 ft - 0 in	178 ft - 0 in	(E) L-084	J-16	Hanging, DIRECT	133 ft - 0 in	40 ft - 0 in	173 ft - 0 in
L-037	J-06	Hanging, DIRECT	53 ft - 0 in	27 ft - 0 in	80 ft - 0 in	L-085	J-16	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in
L-038	J-06	Hanging, DIRECT	53 ft - 0 in	8 ft - 0 in	61 ft - 0 in	L-086	J-16	Hanging, DIRECT	53 ft - 0 in	3 ft - 0 in	56 ft - 0 in
L-039	J-06	Hanging, DIRECT	53 ft - 0 in	17 ft - 0 in	70 ft - 0 in	L-087	J-16	Hanging, DIRECT	53 ft - 0 in	22 ft - 0 in	75 ft - 0 in
L-040	J-06	Hanging, DIRECT	53 ft - 0 in	35 ft - 0 in	88 ft - 0 in	L-088	J-16	Hanging, DIRECT	53 ft - 0 in	40 ft - 0 in	93 ft - 0 in
L-041	J-07	Hanging, DIRECT	23 ft - 0 in	3 ft - 0 in	26 ft - 0 in	L-089	J-17	Hanging, DIRECT	23 ft - 0 in	3 ft - 0 in	26 ft - 0 in
L-042	J-07	Hanging, DIRECT	24 ft - 0 in	3 ft - 0 in	27 ft - 0 in	L-090	J-17	Hanging, DIRECT	24 ft - 0 in	3 ft - 0 in	27 ft - 0 in
L-043	J-07	Hanging, DIRECT	27 ft - 0 in	3 ft - 0 in	30 ft - 0 in	L-091	J-17	Hanging, DIRECT	27 ft - 0 in	3 ft - 0 in	30 ft - 0 in
L-044	J-07	Hanging, DIRECT	58 ft - 0 in	3 ft - 0 in	61 ft - 0 in	L-092	J-17	Hanging, DIRECT	58 ft - 0 in	3 ft - 0 in	61 ft - 0 in
(E) L-045	J-08	Hanging, DIRECT	82 ft - 0 in	3 ft - 0 in	85 ft - 0 in	(E) L-093	J-18	Hanging, DIRECT	82 ft - 0 in	3 ft - 0 in	85 ft - 0 in
L-046	J-08	Hanging, DIRECT	23 ft - 0 in	3 ft - 0 in	26 ft - 0 in	L-094	J-18	Hanging, DIRECT	23 ft - 0 in	3 ft - 0 in	26 ft - 0 in
L-047	J-08	Hanging, DIRECT	48 ft - 0 in	3 ft - 0 in	51 ft - 0 in	L-095	J-18	Hanging, DIRECT	48 ft - 0 in	3 ft - 0 in	51 ft - 0 in
L-048	J-08	Hanging, DIRECT	58 ft - 0 in	3 ft - 0 in	61 ft - 0 in	L-096	J-18	Hanging, DIRECT	58 ft - 0 in	3 ft - 0 in	61 ft - 0 in

\* - INDICATES FIELD INSTALLED PATCH FOR LIGHT FIXTURE  
 NOTE - UNLESS OTHERWISE INDICATED, LIGHT FIXTURES LISTED ARE LUXOR LXB-D65 LED LIGHT FIXTURE ASSEMBLIES  
 (E) INDICATES LIGHT FIXTURE TO BE TIED TO BOTH MAIN POWER AND EMERGENCY GENERATOR TRANSFER SWITCH.  
 - UNLESS INDICATED, HANG LIGHT FIXTURE PATCH & ELECTRICAL CORD ARE INSTALLED DURING MEMBRANE FABRICATION AT THE FACTORY

**ELECTRICAL NOTES:**

- PLEASE REFER TO AIR STRUCTURE DETAILS DRAWINGS ('ASIF' SERIES) FOR ADDITIONAL ELECTRICAL REQUIREMENTS FOR LIGHT FIXTURES, EXIT DOORS, VEHICLE AIRLOCKS, AND MECHANICAL.
- ELECTRICAL CORD FROM LIGHT FIXTURES IS 12/3 SOOW TYPE AND SUPPLIED BY AIR STRUCTURE MANUFACTURER WITH NO END TERMINATIONS AT JUNCTION BOX LOCATIONS SHOWN ON PLAN. CORD LENGTHS PROVIDED ARE SHOWN ON LIGHT FIXTURE SCHEDULE AND ASSUME JUNCTION BOXES/BALLASTS ARE LOCATED WITHIN ±12" OF JUNCTION BOX LOCATION ALONG THE PERIMETER AS SHOWN ON THE ELECTRICAL PLAN.
  - ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL JUNCTION BOXES WITH LIQUID TIGHT LID AND CABLE GLANDS ADJACENT TO THE INSIDE EDGE OF GRADE BEAM AT LOCATIONS SHOWN ON AIR STRUCTURE DETAILS AND CONNECT ELECTRICAL CORD ENDS AS OUTLINED IN DETAILS. JUNCTION BOXES THAT ARE INSTALLED ABOVE THE INTERIOR SURFACE OR ABOVE TOP OF CONCRETE SHALL HAVE NO SHARP CORNERS/EDGES OR INCLUDE PROTECTION TO PREVENT RISK OF DAMAGE TO AIR STRUCTURE MEMBRANE FABRIC.
  - ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL PLUGS, RECEPTACLES AND ELECTRICAL CORDS, AS INDICATED IN THE AIR STRUCTURE DETAILS OR DIRECTLY CONNECT CORDS (HARD-WIRE) AS DETERMINED BY OWNER OR OWNER'S DESIGNATE. THIS INCLUDES ALL CORD CONNECTIONS AT REMOTE BALLASTS AND FROM BALLASTS TO JUNCTION BOXES. CORD ENDS FROM REMOTE BALLASTS ARE FED THROUGH LIQUID TIGHT LID WITH CABLE GLANDS INTO JUNCTION BOX.
  - ALL WORK TO BE IN ACCORDANCE WITH SITE SERVICE VOLTAGE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
  - WHERE WIRING IS RUN IN CONDUIT CAST INTO THE PERIMETER CONCRETE GRADE BEAM OR RUNNING THROUGH BEAM AT A PERPENDICULAR ANGLE, A MINIMUM 24 INCH CLEARANCE MUST BE PROVIDED BELOW FINISHED CONCRETE SURFACE TO AVOID CONTACT WITH ANCHOR BOLTS AND ALUMINUM PROFILE.

**LIGHT FIXTURE JUNCTION BOX SCHEDULE**

JUNCTION BOX	OUTLETS REQ. AT JUNCTION BOX
J-01	5 FROM FIXTURES
J-02	4 FROM FIXTURES
J-03	4 FROM FIXTURES
J-04	5 FROM FIXTURES
J-05	3 FROM FIXTURES
J-06	6 FROM FIXTURES
J-07	1 FROM FIXTURE
J-08	2 FROM FIXTURES
J-09	3 FROM FIXTURES
J-10	2 FROM FIXTURES
J-11	4 FROM FIXTURES
J-12	4 FROM FIXTURES
J-13	1 FROM FIXTURE
J-14	4 FROM FIXTURES
J-15	3 FROM FIXTURES
J-16	6 FROM FIXTURES
J-17	1 FROM FIXTURE
J-18	2 FROM FIXTURES





REVIEWED AND STAMPED BY ARCHITECT FOR THE FOLLOWING LIFE SAFETY FEATURES:  
 1- FIRE EXITS, FIRE ACCESS ROUTES AND SEPARATION OF AIR SUPPORTED STRUCTURE FROM ADJACENT STRUCTURES.  
 2- BARRIER FREE DESIGN REQUIREMENTS FOR ENTRANCES, EXITS AND PATH OF TRAVEL  
 3- OCCUPANT LOAD BASED ON NUMBER OF EXITS AND NUMBER OF PLUMBING FIXTURES (WASHROOMS) AVAILABLE IN THE ADJACENT WASHROOM BUILDING.

LIGHTING LEVEL LAYOUT PARAMETERS

DOMe SIZE  
 267'-0" x 482'-0" x 81'-0"  
 LIGHT FIXTURE MOUNTING HEIGHT  
 VARIABLE ±6'-0" FROM LINER  
 CEILING REFLECTANCE = 0.7  
 WALL REFLECTANCE = 0.7  
 FLOOR REFLECTANCE = 0.0

LIGHT LEVELS SHOWN IN FOOTCANDLES

LAYOUT SHOWN IS MAINTAINED  
 HORIZONTAL LIGHT LEVELS 3'-0" ABOVE FLOOR

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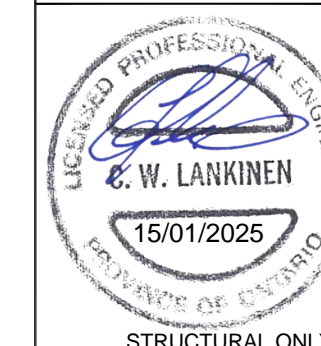
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4	14/01/2025	SEE PAGE C-1 FOR REVISION NOTES
3	29/10/2024	SEE PAGE C-1 FOR REVISION NOTES
2	16/10/2024	SEE PAGE C-1 FOR REVISION NOTES
1	25/04/2024	SEE PAGE C-1 FOR REVISION NOTES
ISSUED FOR COMPLETENESS REVIEW		
NO.	DATE: (DD/MM/YY)	REVISION:

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A -- DETAIL NUMBER  
 B -- SHEET WHERE DETAILED



**THE FARLEY GROUP**  
 Farley Manufacturing Inc.  
 A division of The Farley Group  
 6 Kerr Crescent  
 Puslinch, ON, Canada N0B 2J0  
 Phone: 1-888-445-3223  
 Fax: 1-888-445-3043  
 Email: man@thefarleygroup.com  
 Creative Space Solutions

CLIENT:  
**CASSIE CAMPBELL  
 COMMUNITY CENTRE DOME  
 CITY FILE #: SPA-2024-0106**

CLIENT ACCEPTANCE SIGNATURE:  
 DATE ACCEPTED:  
 PROJECT:

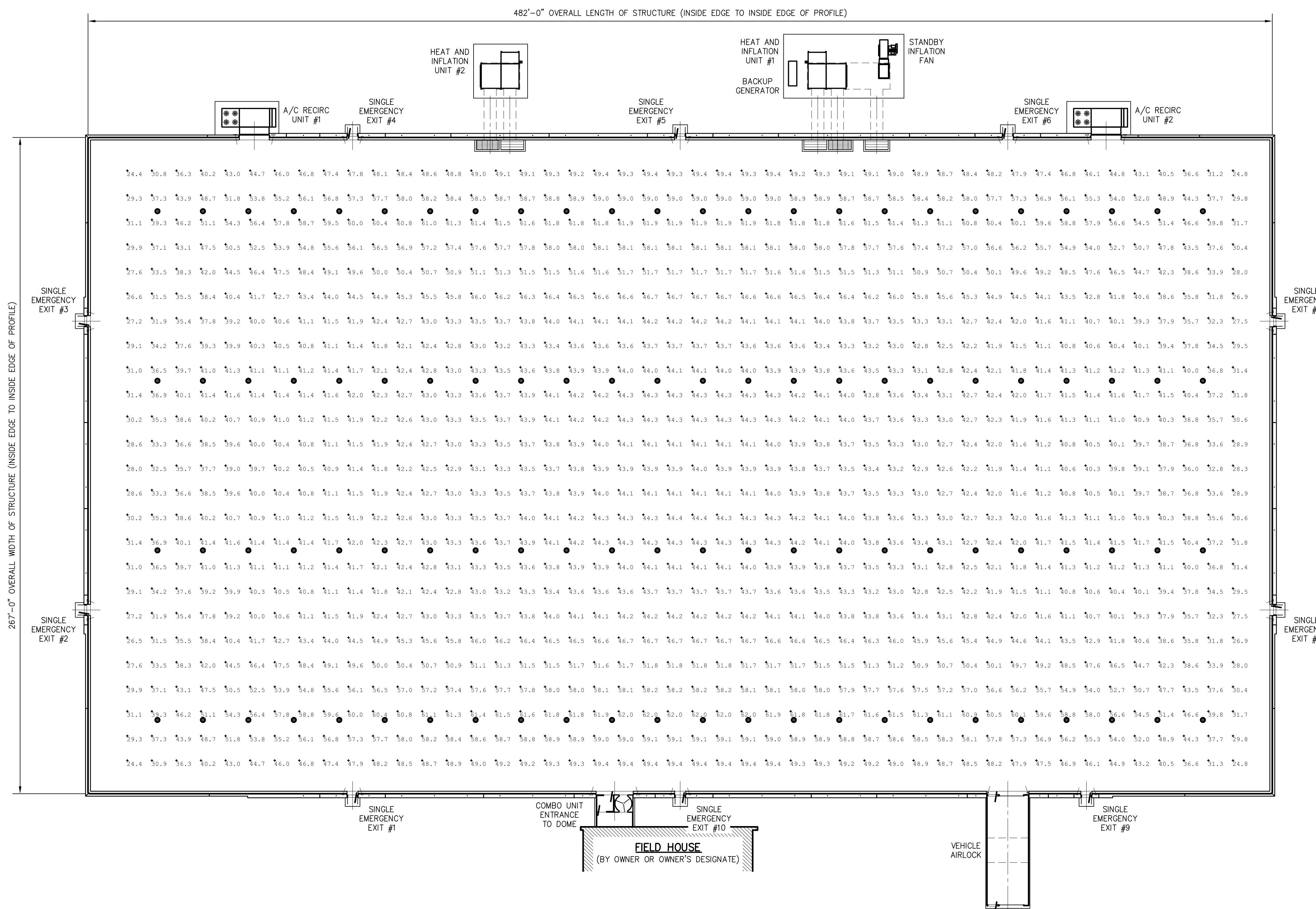
**AIR SUPPORTED STRUCTURE FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

DRAWING:  
**ESTIMATED LIGHT LEVELS FOR INTERIOR LIGHTING (LED FIXTURES)**

PROJECT NORTH:   
 DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN

PLAN NORTH:   
 PROJ. #: 23-08D  
 DRAWING #:  
**AS19**  
 REV. 04



**1 AS19 ESTIMATED LIGHT LEVELS FOR PRIMARY INTERIOR LIGHTING OF STRUCTURE (LED FIXTURES)  
 SCALE 1/24"=1'-0"**

Luminaire Schedule				
Qty	Label	Description	Lum. Lumens	LLF
96	N184C, LXB-D65	LXB-D65-5000K-UNV-S-PC-XXX	61436	0.950

Numeric Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	Fc	45.65	62.0	24.4	1.87	2.54



REVIEWED AND STAMPED BY ARCHITECT FOR THE FOLLOWING LIFE SAFETY FEATURES:  
 1- FIRE EXITS, FIRE ACCESS ROUTES AND SEPARATION OF AIR SUPPORTED STRUCTURE FROM ADJACENT STRUCTURES.  
 2- BARRIER FREE DESIGN REQUIREMENTS FOR ENTRANCES, EXITS AND PATH OF TRAVEL  
 3- OCCUPANT LOAD BASED ON NUMBER OF EXITS AND NUMBER OF PLUMBING FIXTURES (WASHROOMS) AVAILABLE IN THE ADJACENT WASHROOM BUILDING.

LIGHTING LEVEL LAYOUT PARAMETERS  
 DOME SIZE  
 267'-0" x 482'-0" x 81'-0"  
 LIGHT FIXTURE MOUNTING HEIGHT  
 VARIABLE ±6'-0" FROM LINER  
 CEILING REFLECTANCE = 0.7  
 WALL REFLECTANCE = 0.7  
 FLOOR REFLECTANCE = 0.0  
 LIGHT LEVELS SHOWN IN FOOTCANDLES

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THE FARLEY GROUP DISCLAIMS ALL IMPLIED WARRANTIES WITH REGARD TO ACTUAL INSTALLED LIGHT LEVELS AS THE FARLEY GROUP HAS NO CONTROL OVER ACTUAL CONDITIONS AND MAKES NO GUARANTEE OF ACTUAL LIGHT LEVELS.

4	14/01/2025	SEE PAGE C-1 FOR REVISION NOTES
3	29/10/2024	SEE PAGE C-1 FOR REVISION NOTES
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1	25/04/2024	SEE PAGE C-1 FOR REVISION NOTES

ISSUED FOR COMPLETENESS REVIEW

NO: DATE: (DD/MM/YY) REVISION:

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 Creative Space Solutions

CLIENT:  
**CASSIE CAMPBELL  
 COMMUNITY CENTRE DOME  
 CITY FILE #: SPA-2024-0106**

CLIENT ACCEPTANCE SIGNATURE:

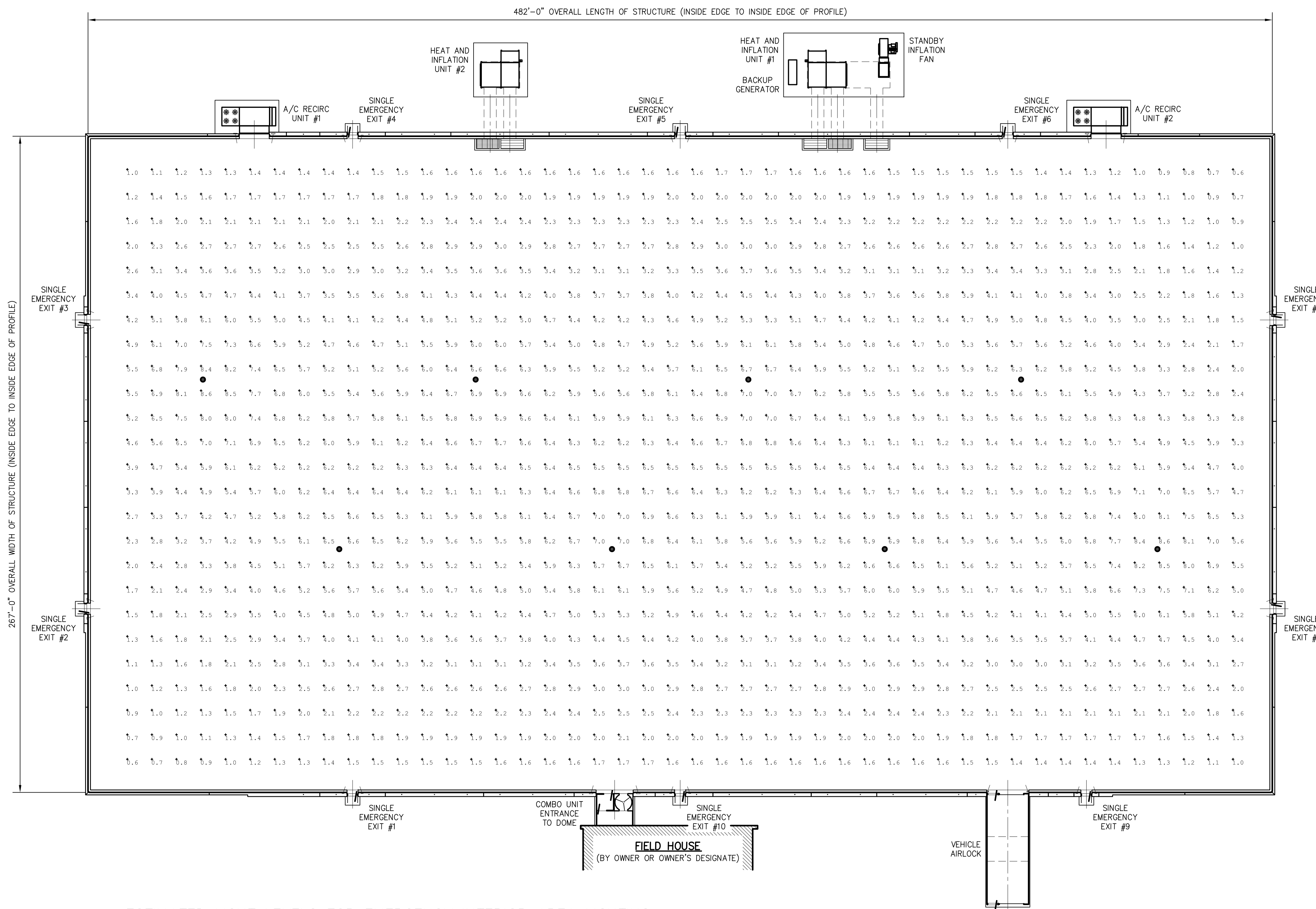
DATE ACCEPTED:

PROJECT:  
**AIR SUPPORTED STRUCTURE FOR MULTI-USE  
 (267'-0" x 482'-0" x 81'-0")**

LOCATION:  
 1060 SANDALWOOD PKWY W.  
 BRAMPTON, ON L7A 2Z8

DRAWING:  
**ESTIMATED LIGHT LEVELS FOR EMERGENCY AREA LIGHTING (LED FIXTURES)**

PROJECT NORTH:   
 DRN BY: C.J.S.  
 REVIEWED BY: A.R.R.  
 DATE: APRIL 3, 2024  
 SCALE: AS SHOWN  
 PLAN NORTH:   
 PROJ. #: 23-08D  
 DRAWING #:  
**AS20**  
 REV. 04

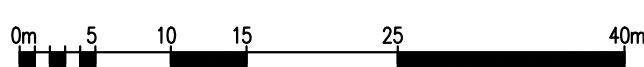
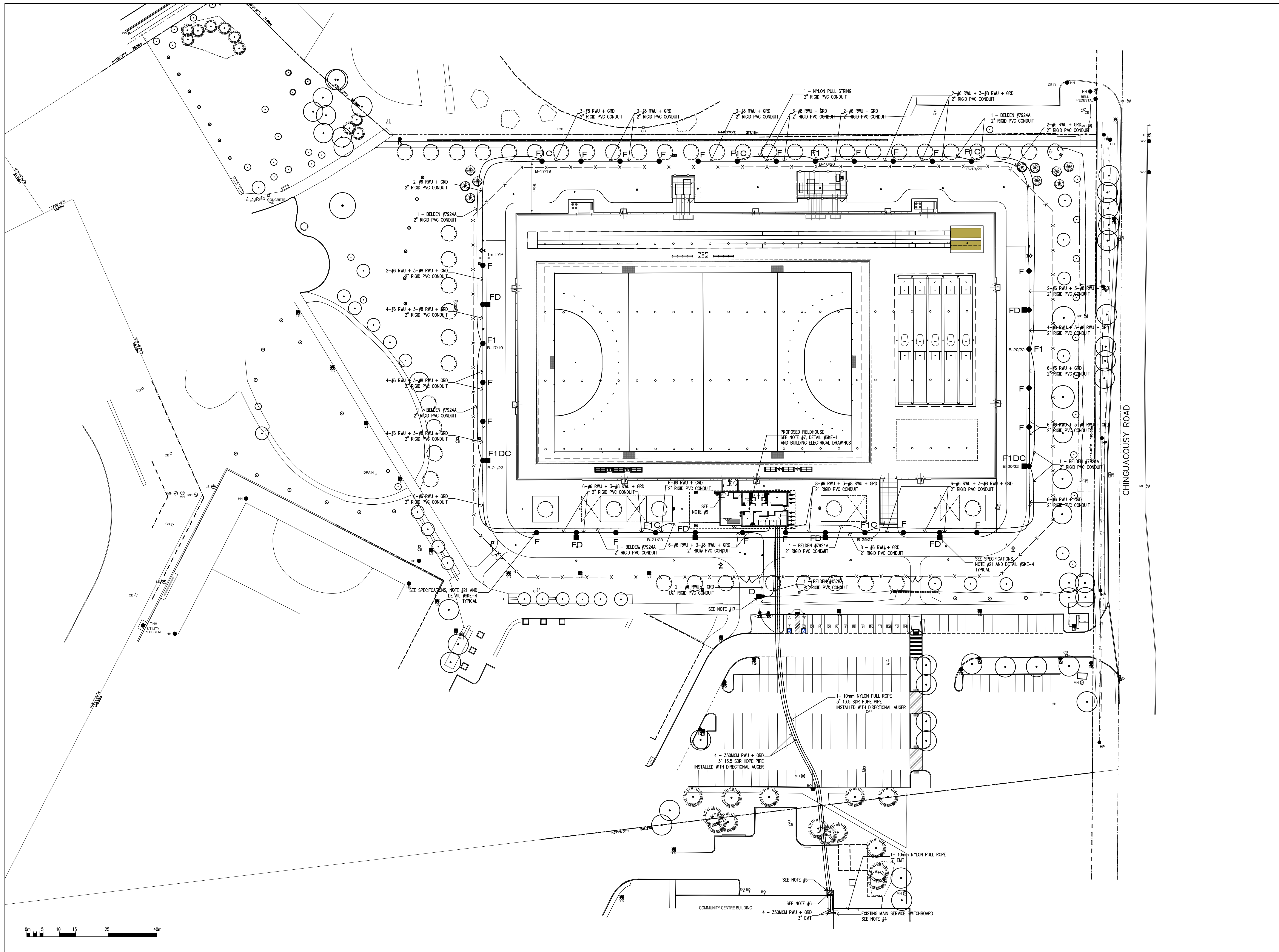


**ESTIMATED LIGHT LEVELS FOR EMERGENCY INTERIOR AREA LIGHTING**  
 SCALE 1/24"=1'-0"

Qty	Label	Description	Lum. Lumens	LLF
8	N184C, LXB-D65	LXB-D65-5000K-UNV-S-PC-XXX	61436	0.950

Label	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	Fc	4.09	8.6	0.6	6.82	14.33



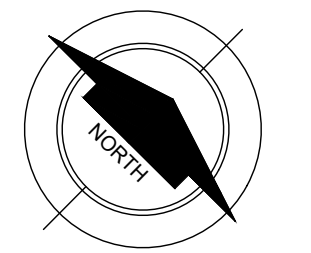


Electrical Consultant

**MJS CONSULTANTS INC.**  
 420 Main Street East, Suite 473  
 Milton, Ontario  
 L9T 5G3  
 TEL: 416-402-1525  
 mjscons@total.net

no.	revision	date	by
4	Re-issued for Tender	1/17/2025	MJS
3	Issued for Tender	12/6/2024	MJS
2	Issued for Review	7/22/2024	MJS
RT	Issued for Completeness Review	4/3/2024	MJS

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project number  
**2023-093**



project title  
**CASSIE CAMPBELL  
 COMMUNITY CENTRE,  
 FIELD HOCKEY DOME**

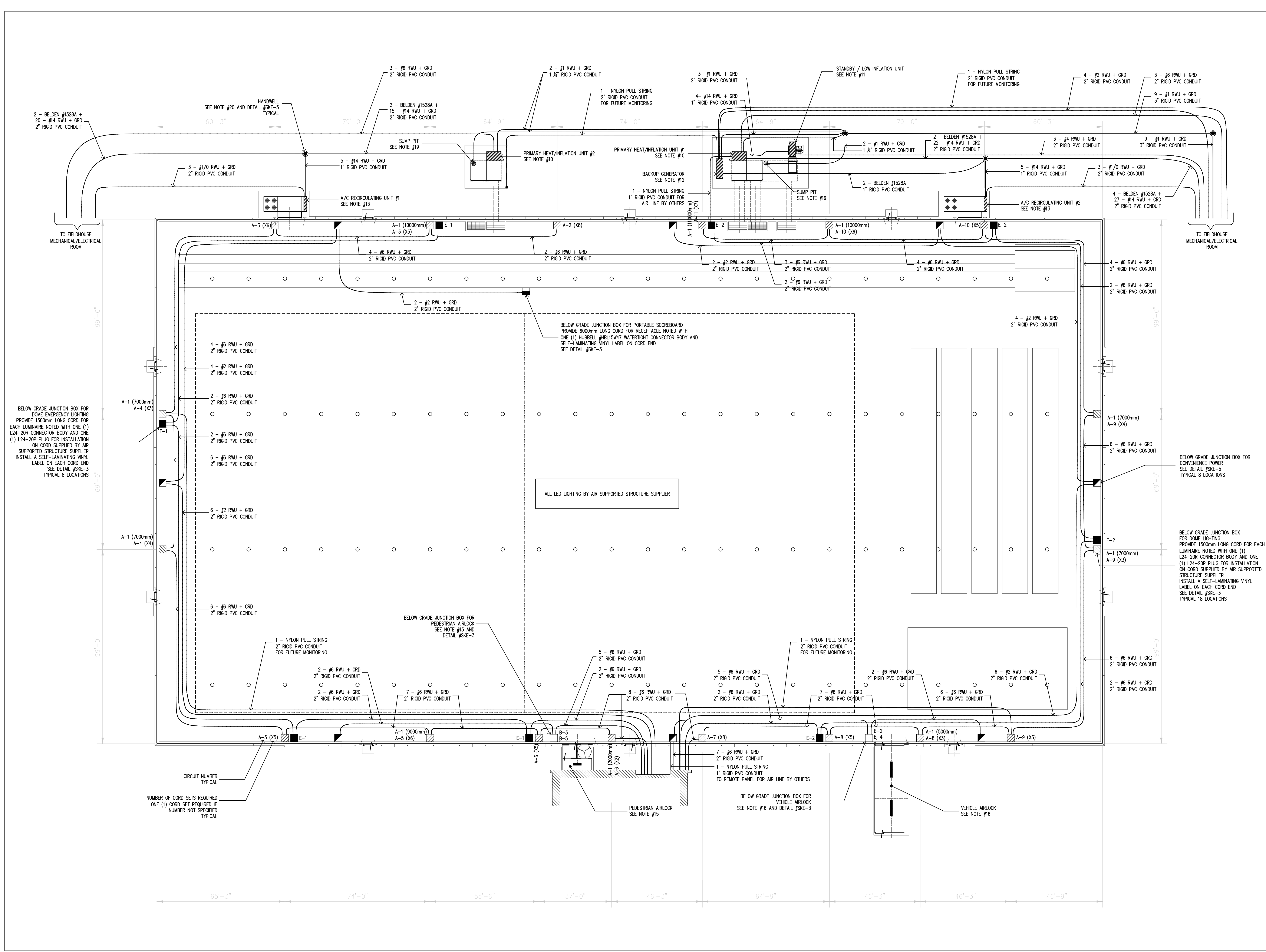
client  
**CITY OF BRAMPTON**

City File Number  
**PRE-2023-0128**

drawing title  
**ELECTRICAL SITE  
 PLAN**

drawn by MJS	reviewed by MJS	drawing number: <b>E-1</b>
date NOV. 10, 2024	scale 1: 500	

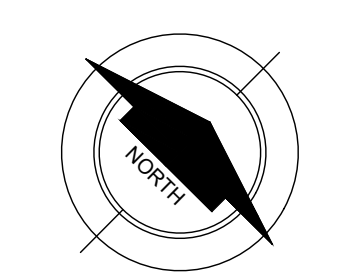




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**CASSIE CAMPBELL  
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 FIELD HOCKEY DOME**

client  
**CITY OF BRAMPTON**

City File Number  
**PRE-2023-0128**

drawing title  
**AIR SUPPORTED  
 STRUCTURE  
 ELECTRICAL PLAN**

drawn by MJS	reviewed by MJS	drawing number: <b>E-2</b>
date NOV. 10, 2024	scale 1: 250	





## ELECTRICAL NOTES

1. Electrical contractors quoting on this project must visit the Cassie Campbell Community Centre site located at 1050 Sandalwood Parkway West prior to the close of tenders, to familiarize themselves with the existing conditions. No allowance will be made later for any expense incurred through failure to make this examination.

2. Arrange and pay for locates for all buried services before starting any work in accordance with TSSA requirements. Hand dig within two meters of all services and daylight with a hydro-vac excavator all those being crossed with the directional auger. Do not leave open excavations unattended. Any damaged services, real property, trees or other plant materials will be replaced or repaired to the satisfaction of the contract inspector. All costs for this work will be the responsibility of the electrical contractor.

3. The conduit routing indicated on the drawing is to be considered schematic only. Do not route any conduits under the bases of any structures, under bleacher footings or proposed fence posts. Generally, where possible route all conduits 2000mm offset of all existing or proposed services and all play areas. Keep all of the trenches as far away as possible from the drip lines of all existing trees to avoid damaging their root systems. All costs for this work will be the responsibility of the electrical contractor.

4. The 600 amp 600 volt 3-phase 4-wire power supply for the proposed Field Hockey Dome is to come from the existing 2000 amp 347/600 volt Main Service Switchboard located in ground floor Main Electrical Room A113 of the Community Centre building where indicated on the drawings. The electrical contractor will co-ordinate with Community Centre management staff to arrange for access to the Main Electrical Room to isolate the distribution section of the switchboard for the work required to add the new moulded case circuit breaker. No trades' people are to enter the building without first reporting to the front desk on the ground floor. Supply and install one (1) new Eaton Cutler-Hammer #LDC3600F 600 amp 3-pole 600 volt molded case circuit breaker frame with a #LT3600T 600 amp 3-pole 600 volt thermal magnetic trip unit, a #KPRL4D connector kit and three (3) #T1A602LD load terminals. The electrical contractor will shift two (2) existing 3-pole M-frame circuit breakers along with their mounting hardware, dead-front covers and load side wiring in order to create the required space in the switchboard. Connect the new branch circuit wiring to the load side lugs of the circuit breaker and label with an engraved lamicoid plate to read 'FIELD HOCKEY DOME'. Provide the required #P4NX25 filler plate when all of the modifications are complete. This work is to be performed during off-hours and is to be scheduled with Community Centre management staff. This work is NOT to be performed with the load side of the main breaker in the Main Service Switchboard energized. See detail #SKE-1.

5. Saw cut with straight lines, remove and dispose of offsite an approximately 1200mm x 1200mm square section of asphalt located immediately adjacent to the north exterior wall of Refrigeration Room A112 to allow for the installation of the new Fieldhouse power supply & communications conduits and the completion of the directional bores. Supply, install and maintain pedestrian barricades while the excavation is underway. Once the conduits have been installed, backfill the excavation with granular 'A' material and compact in 150mm lifts to 98 per cent SPD. The electrical contractor will include all costs for reinstating the asphalt surface level to the surrounding grade with HL-3 hot-mix asphalt, to a 100mm minimum compressed depth.

6. The surface mounted conduits will enter the building approximately 450mm above finished grade with rigid PVC LB fittings located next to each other. Supply and install a custom made 3/8" thick galvanized steel guard approximately 600mm high with a closed top and secured to the masonry wall with four (4) 1/2" stainless steel masonry anchors. A single guard, sealed on all sides with welded edges and mounting tabs, is to cover both conduits, extending up from finished grade and installed vertically & parallel to the building lines. Use threaded adapters, 1000mm from the building foundation wall to transition from HDPE pipe to rigid PVC conduit. Core drill the masonry wall and seal around the conduits from both sides of the wall with expandable grout and clear silicone sealant. Transition to EMT inside the building and route the conduits along the walls and ceilings of the Refrigeration Room and the Main Electrical Room, square with the building lines and secured with 2-hole straps at 1500mm intervals. Extend the two (2) power conduits into the top of Main Service Switchboard section #3. Terminate the communications conduit inside Communications Room A113A onto the closest existing cable tray with a bushed connector.

7. Include all costs to coordinate with the building general contractor to install the required sleeves for all underground conduits entering or exiting the Fieldhouse through their poured concrete foundation walls and floor slabs. Backfill and compact all excavations below the concrete floor slabs with granular 'A' material to 98% SPD. All branch circuit wiring within the building will be in EMT (minimum 3/4") installed concealed in the walls and ceilings of the public access room areas. Conduit may be surface mounted in the Mechanical/Electrical Room. All conduits are to be installed square to the lines of the building. All EMT will utilize steel set-screw fittings and include a green bonding wire (sized in accordance with Table 16 of the OESC) within the conduit. All wire and cable installed within the building will be 190 copper with a minimum conductor size of #12 AWG. No conduits are to be installed on the exterior walls of the building.

8. The Type 'D' lighting assembly and the driveway luminaire on the Type 'FD' & 'FID' feature lighting assemblies will be controlled from circuit LPB-34 located in the Mechanical/Electrical Room. Supply and install the 30 amp 3-pole lighting contactor lighting contactor enclosure #2 as detailed on the lighting contactor schedule in the specifications with a photocell to operate the lighting. Circuit LPB-34 will be controlled with the photo cell "ON" and "OFF" with the selector switch in the automatic position. Use a common control circuit and connect to the photocell used to control the building mounted exterior luminaires.

9. Provide an Allen-Bradley #800T-J631A 3-position, keyed, 30mm selector switch with a recessed device box, a stainless steel cover plate and an 'ON-OFF' legend plate installed at 1100mm AFF and recessed on the inside wall of the Fieldhouse where shown on the drawing to control the Field Hockey Dome lighting. Confirm the final location with the Owner. Supply and install 3-#12T90+GRD control wiring in 3/4" EMT back to Lighting Contactor Enclosure #1 located in the Fieldhouse Mechanical/Electrical Room. Provide an engraved lamicoid plate to read 'DOME LIGHTING'. See detail #SKE-1.

10. Supply and install the 40 amp 600 volt 3-wire electrical supply connections from Panel 'DP-A' and connect to the line side terminals of each of the disconnect switches on Primary Heat/Inflation Units #1 and #2. Provide two (2) 15 amp 120 volt circuits from Panel 'LP-B' and connect one (1) to the lighting/GFI receptacle service outlet supply terminals located within each unit. From Primary Heat/Inflation Unit #1 provide 4-#14 RWU+GRD in 1" rigid PVC conduit for the interconnection control wiring to the Standby/Low Inflation Unit as well as two (2) Belden #1528A control cables with 22-#14RWU+GRD in 2" rigid PVC conduit as detailed on the drawing to a Remote Panel located in the Mechanical/Electrical Room of the Fieldhouse. From Primary Heat/Inflation Unit #2 provide two (2) Belden #1528A control cables with 15-#14RWU+GRD in 2" rigid PVC conduit as detailed on the drawing to the Remote Panel. Leave all control wiring for termination by the Mechanical Service Manager. Utilize liquid-tight flexible metal conduit and fittings for all final connections to the mechanical equipment supplied and installed by others. Coordinate with the air supported structure installer to determine the exact rough-in locations for all conduits protruding through the poured-in-place concrete slab.

11. Supply and install the 50 amp 600 volt 3-wire electrical supply connection from Panel 'DP-A' to the utility side terminals of transfer switch #1 located in the Fieldhouse Mechanical/Electrical Room, from Panel 'DP-G' to the emergency side terminals of the switch and from the load side terminals of the switch to the line side terminals of the Standby/Low Inflation Unit disconnect switch. From transfer switch #1 provide a Belden #1528A control cable in 1" EMT for the interconnection control wiring to the Remote Panel. Leave all control wiring for termination by the Mechanical Service Manager. Utilize liquid-tight flexible metal conduit and fittings for all final connections to the mechanical equipment supplied and installed by others. Coordinate with the air supported structure installer to determine the exact rough-in locations for all conduits protruding through the poured-in-place concrete slab.

12. Supply and install the 100 amp 347/600 volt 4-wire electrical supply connection from the line side terminals of Panel 'DP-G' to the load side terminals of the main circuit breaker in the Backup Generator. Provide two (2) Belden #1528A control cables in a 1" rigid PVC conduit for the interconnection control wiring between the Backup Generator and transfer switches #1 and #2 located in the Fieldhouse Mechanical/Electrical Room. Supply and install a 60 amp 120/208 volt 3-wire electrical supply connection from Panel 'LP-B' to the panelboard located within the Backup Generator enclosure which supplies the battery charger, block heater and related loads. Utilize liquid-tight flexible metal conduit and fittings for all final connections to the mechanical equipment supplied and installed by others. Coordinate with the air supported structure installer to determine the exact rough-in locations for all conduits protruding through the poured-in-place concrete slab.

13. Supply and install the 150 amp 600 volt 3-wire electrical supply connections from Panel 'DP-A' to the line side terminals of each of the disconnect switches on A/C Recirculating Units #1 and #2. From each A/C Recirculating Unit, provide 5-#14RWU+GRD in 1" and 2" rigid PVC conduit as detailed on the drawing back to the Remote Panel. Leave all control wiring for termination by the Mechanical Service Manager. Utilize liquid-tight flexible metal conduit and fittings for all final connections to the mechanical equipment supplied and installed by others. Coordinate with the air supported structure installer to determine the exact rough-in locations for all conduits protruding through the poured-in-place concrete slab.

14. Supply and install the 30 amp 347/600 volt 4-wire electrical supply connection from Panel 'DP-A' to the utility side terminals of transfer switch #2 located in the Electrical Room, from Panel 'DP-G' to the emergency side terminals of the switch and from the load side terminals of the switch to Panel 'LP-E'. Leave all control wiring for termination by the Mechanical Service Manager.

15. The electrical contractor will provide a separate 14/3 Type SOOW cabtire cable from two (2) motorized door operators and one (1) ceiling mounted luminaire located within the Pedestrian Airlock to the below grade junction box located at the southwest corner of the enclosure. Terminate each cable at the junction box with a NEMA L5-15P plug and a 1500mm long cord with an L5-15R connector body and self-laminating vinyl labels. Refer to detail #SKE-3. Secure all cabtire cables at 600mm intervals to the tubular steel structure with 50LB clear nylon cable ties. The ceiling mounted luminaire is to be supplied and installed by the electrical contractor and will be Cooper Lighting #HVSL4-4-LD4-1-STD-40-UNV-0-EDC1-OS1-WL, suspended from the structure with #10 zinc-plated jack chain.

16. The electrical contractor will provide a separate 14/3 Type SOOW cabtire cable from each of two (2) overhead door operators and two (2) ceiling mounted luminaires located within the Vehicle Airlock to the below turf junction box located at the southwest corner of the enclosure. Terminate each cable at the junction box with a NEMA L5-15P plug and a 1500mm long cord with an L5-15R connector body and self-laminating vinyl labels. Refer to detail #SKE-3. Secure all cabtire cables at 600mm intervals to the tubular steel structure with 50LB clear nylon cable ties. The ceiling mounted luminaires are to be supplied and installed by the electrical contractor and will be Cooper Lighting #HVSL4-8-LD4-1-STD-40-UNV-0-EDC1-OS1-WL, suspended from the structure with #10 zinc-plated jack chain. Supply and install on 18/5 LVT cable between the overhead door operators and from each overhead door operator to a control station provided by others and located adjacent to each overhead door. Terminate the control wiring at both ends in accordance with the manufacturer's detailed instruction manual and leave for set-up and testing by the overhead door installer. The doors are to be interlocked so that only one can be open at any time.

17. The electrical contractor will install a Remote Panel provided by the air supported structure supplier within the Fieldhouse Mechanical/Electrical Room where detailed on the drawings. The electrical contractor will also provide the conduit and cabling for a wind sensor to be supplied and installed on the top of the Type 'D' pole where shown by others. Within the base of the pole, transition from rigid PVC conduit to 3/4" ENT (Corline) PVC conduit to the access cover built into the top of the pole. The electrical contractor will provide a Kellems cable grip at the top of the pole to support the ENT at the access cover. Leave 2000mm of excess cable coiled at the access cover and terminate the other end of the conduit in the Remote Panel.

18. Supply and install the 30 amp 3-pole normally-open and normally-closed lighting contactors (lighting contactor enclosure #3) as detailed on the lighting contactor schedule in the specifications to control the dome interior emergency lighting. The 120 volt control circuit for the normally-closed contactor is to be connected directly to the airlock lighting circuit LPB-5 so that it is constantly energized during normal operation. The 120 volt control circuit for the normally-open contactor is to be connected to the control circuit for lighting contactor enclosure #1 so that it is energized when the dome interior lighting is operational. The 347 volt emergency lighting circuits are to be connected in parallel through both contactors so that they operate with both the dome interior lighting circuits during normal operation and when the Backup Generator is operational during a power failure.

19. Core drill through the side of the poured-in-place concrete walls of the mechanical vaults directly above the two (2) sump locations and terminate the supply conduits into the back of a 6" x 6" x 4" rigid PVC junction box secured to each side wall with self-drill masonry anchors. Seal around the conduits from both sides of the wall with expandable grout prior to the installation of the exterior wall damp proofing by the prime contractor. Terminate the sump pump power cord into the bottom of the rigid PVC junction box with a Kellems mesh connector and make all connections with NSi #ESGTS-2/0 gel tap splice kits.

20. Supply and install pre-cast concrete handwells where located on the drawing. The pre-cast concrete handwells will be Brooklyn Concrete Products #BCP-2112.02 or equal with an 18" diameter cast iron cover (Refer to #SKE-5 for the handwell installation details). Cable splicing within the pre-cast concrete handwells will be with T&B compression butt splicing sleeves insulated with T&B epoxy-filled heat shrink tubing. For splices of more than two conductors, utilize NSi #ESGTS-2 or #ESGTS-2/0 gel tap splice kits. No other methods of cable splicing will be acceptable.

21. The dynamic colour-changing LED floodlights located on the Type 'F', 'F1', 'F1C', 'FD' and 'FIDC' feature lighting assemblies are to be controlled by ten (10) power/data supplies (see specifications) located in the Fieldhouse Mechanical/Electrical Room and the base of each Type 'F1', 'F1C' and 'FIDC' lighting assembly where noted and supplied from five (5) 2-pole 15 amp circuit breakers in Panel 'LP-B' (each 208 volt circuit will supply two power/data supplies). Each luminaire is to be positioned on the pole top level and squarely at 90 degrees to the lines of the air supported structure. Refer to the specifications and provide all required control components as well as the factory certified commissioning and programming of the feature lighting system upon project completion. Supply and install the iPlayer 4 controller and program the Light System Composer light show authoring software to the parameters provided by the City of Brampton representative. Provide the specified on-site training for this new software along with the required Scene Management software subscription to allow the Owner to remotely monitor and manage the commissioned floodlighting system. The Owner will provide the necessary Ethernet connection to the new controller to be mounted next to the power/data supply located in the Mechanical/Electrical Room. Provide a 15 amp 120 volt duplex receptacle next to the controller supplied from a dedicated 1-pole 15 amp circuit breaker in Panel 'LP-B'. The electrical contractor will include all costs for labour and equipment (lift or bucket truck) for the after dark aiming adjustment of the floodlights to achieve optimal illumination of the air supported structure exterior. This night work will be coordinated with and in the presence of the floodlight manufacturer and the electrical consultant. The contractor must verify the operation of all luminaires prior to scheduling this night time work.

22. After all of the service locates have been completed, stake out the proposed lighting pole locations to confirm that there are no conflicts with existing or proposed services and plant materials. If conflicts occur, notify the consultant prior to excavating for the pole base holes or the underground conduit installation.

23. All sub-grade conduits will be rigid, heavywall, PVC with solvent weld fittings buried with a minimum cover of 600mm or 13.5 SDR HDPE pipe installed with the use of a directional auger with a minimum cover depth of 1000mm, all sized as indicated on the drawings. All conduits will have a TW stranded green bonding wire (sized in accordance with Table 16 of the OESC) installed with the conductors. All conduits will have a 150mm wide red plastic "Caution" tape buried 300 mm above the conduit, for the full length of the conduit. ENT and Type II PVC duct will not be acceptable. All wire will be RWU stranded copper, 1000 volt, 90 degree C rated and sized as indicated on the drawings. Use red, black, blue and white insulated wire to properly identify the phases and the neutral. The use of phasing tape will not be acceptable.

24. The electrical contractor will complete a night time verification of the driveway and feature lighting systems to confirm their correct operation and the operation of their control sequences, prior to the request for final site verification by the consultant.

25. All work will be in accordance with the Ontario Electrical Safety Code, 28TH Edition (2021). The electrical contractor will be required to submit a copy of the Electrical Safety Authority Certificate of Acceptance, issued in the name of the ECRA licensed electrical contractor, at the completion of the project. Final acceptance and certification of this project by the electrical consultant will not be provided prior to the receipt of the ESA Certificate of Acceptance. Provide the "As-built" drawings, warranty letter and all other required final documentation upon the completion of this project.



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City File Number

**PRE-2023-0128**



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project title

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**ELECTRICAL NOTES**

drawn by	reviewed by	drawing number:
MJS	MJS	<b>E-4</b>
date	scale	
NOV. 10, 2024	-	