

NOTE: 1.) LONGITUDINAL SECTION SHOWN IS THE EXPECTED MINIMUM RADIUS OF OUTER FABRIC. CURVATURE INCREASES AS YOU APPROACH CORNER OF AIR STRUCTURE.
 2.) POCKET CREATED BY INNER FABRIC WILL REDUCE VERTICAL DIMENSIONS SHOWN BY UP TO 11 INCHES. (TYPICAL FOR ALL SECTIONS SHOWN)

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

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 A CLIENT ACCEPTANCE SIGNATURE ON THE FIRST PAGE OF A BOUND SET OF DRAWINGS ACKNOWLEDGES THE ACCEPTANCE OF ALL PAGES CONTAINED IN THE BOUND SET OF DRAWING DETAILS.

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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: manf@thefarleygroup.com

Creative Space Solutions

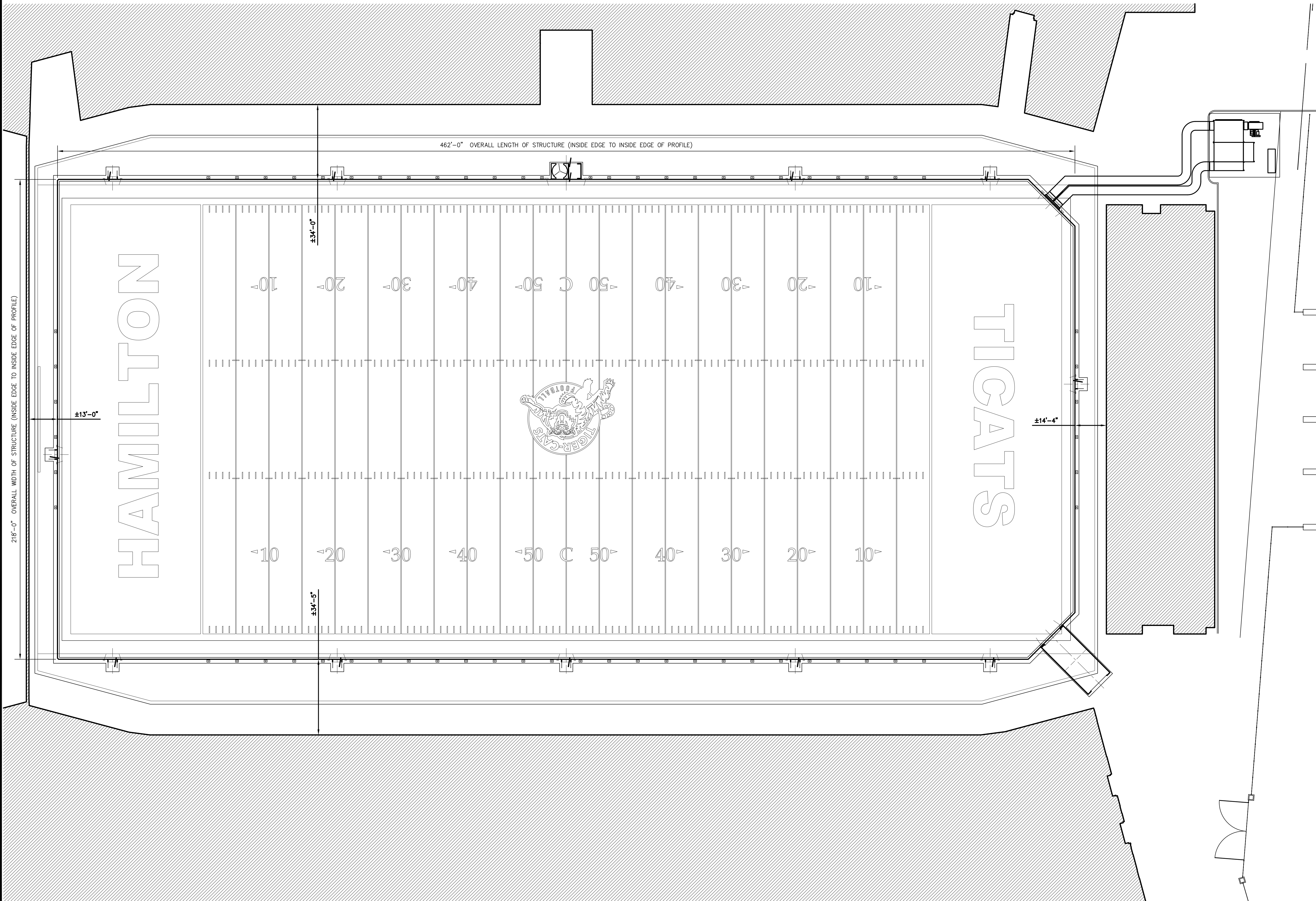
CLIENT:
TIM HORTONS FIELD

CLIENT ACCEPTANCE SIGNATURE:
 DATE ACCEPTED:
 PROJECT:
PROPOSED AIR-SUPPORTED STRUCTURE FOR MULTI-USE (218'-0"x 462'-0"x 66'-0")

LOCATION:
 64 MELROSE AVE. N.
 HAMILTON, ON L8L 8C1

DRAWING:
EXTERIOR PLAN LAYOUT AND SIDE/END PROFILES

PROJECT NORTH:	DRN BY:	J.K.S.
REVIEWED BY:	DATE:	JANUARY 11, 2016
SCALE:	NOT TO SCALE	
PLAN NORTH:	PROJ. #:	
	DRAWING #:	P1



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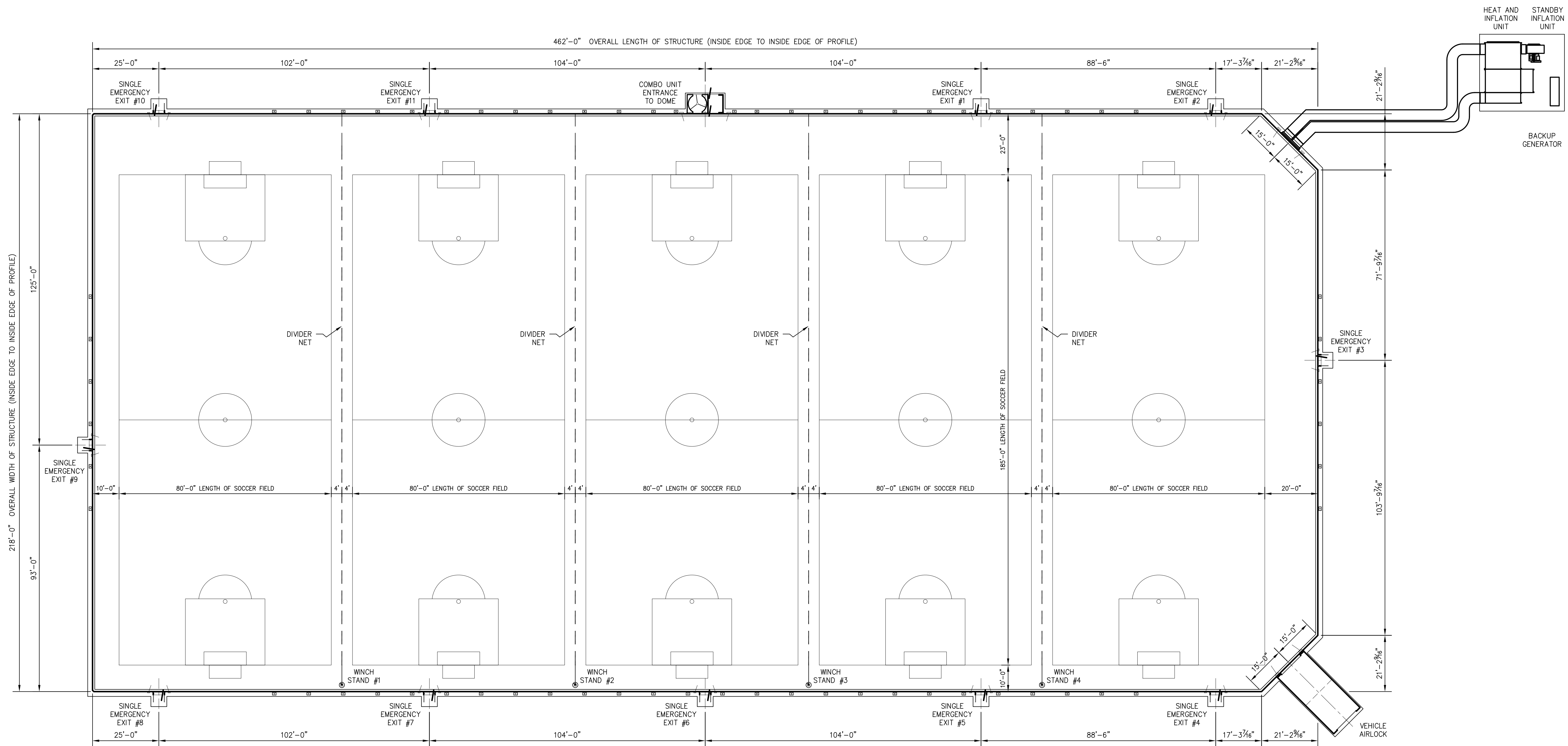
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LOCATION:
64 MELROSE AVE. N. HAMILTON, ON L8L 8C1

DRAWING:
INTERIOR PLAN LAYOUT 1

PROJECT NORTH:	DRN BY:	J.K.S.
	REVIEWED BY:	
	DATE:	JANUARY 11, 2016
	SCALE:	NOT TO SCALE
PLAN NORTH:	PROJ. #:	
	DRAWING #:	P2



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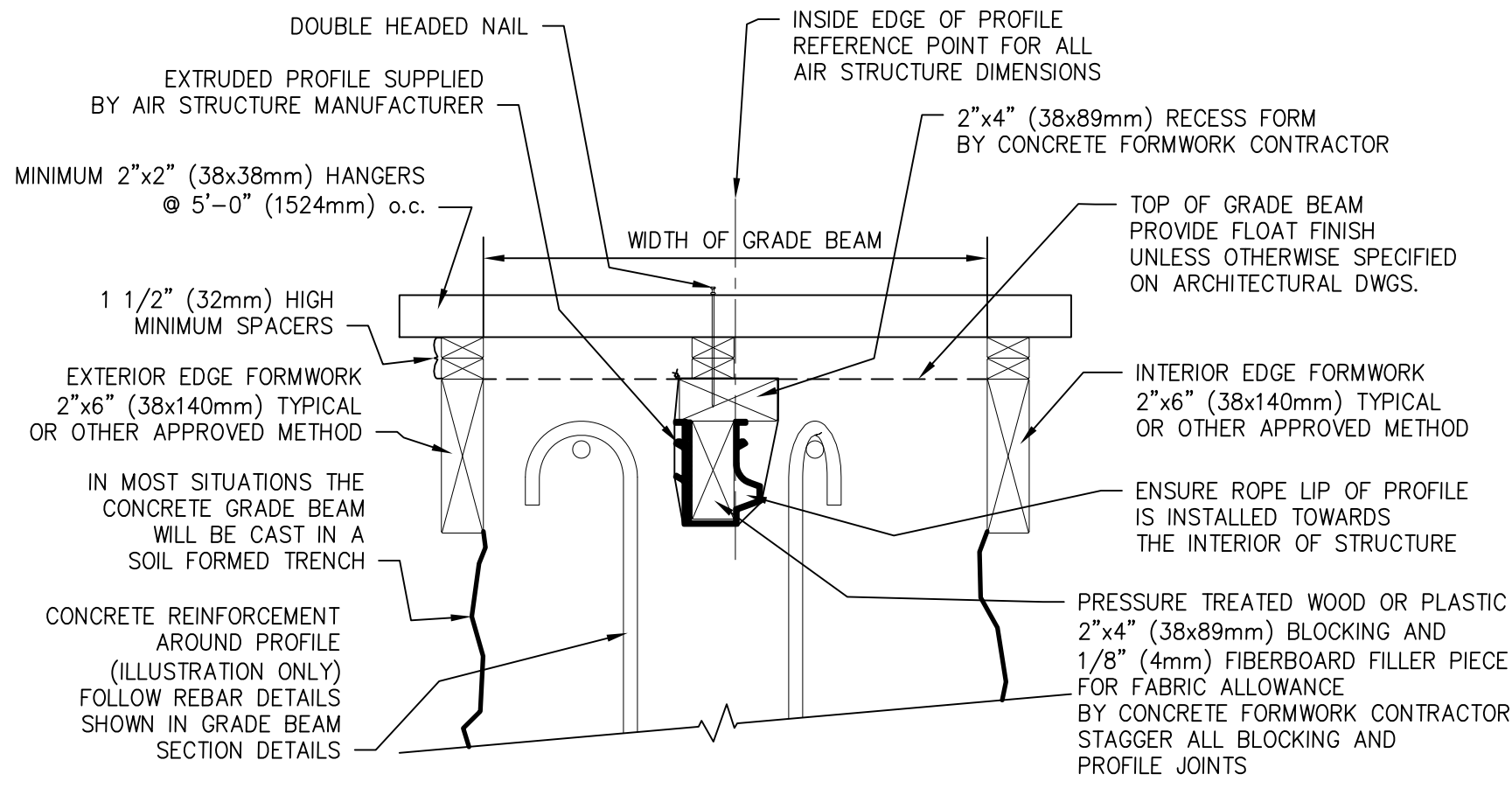
DATE ACCEPTED:

PROJECT:
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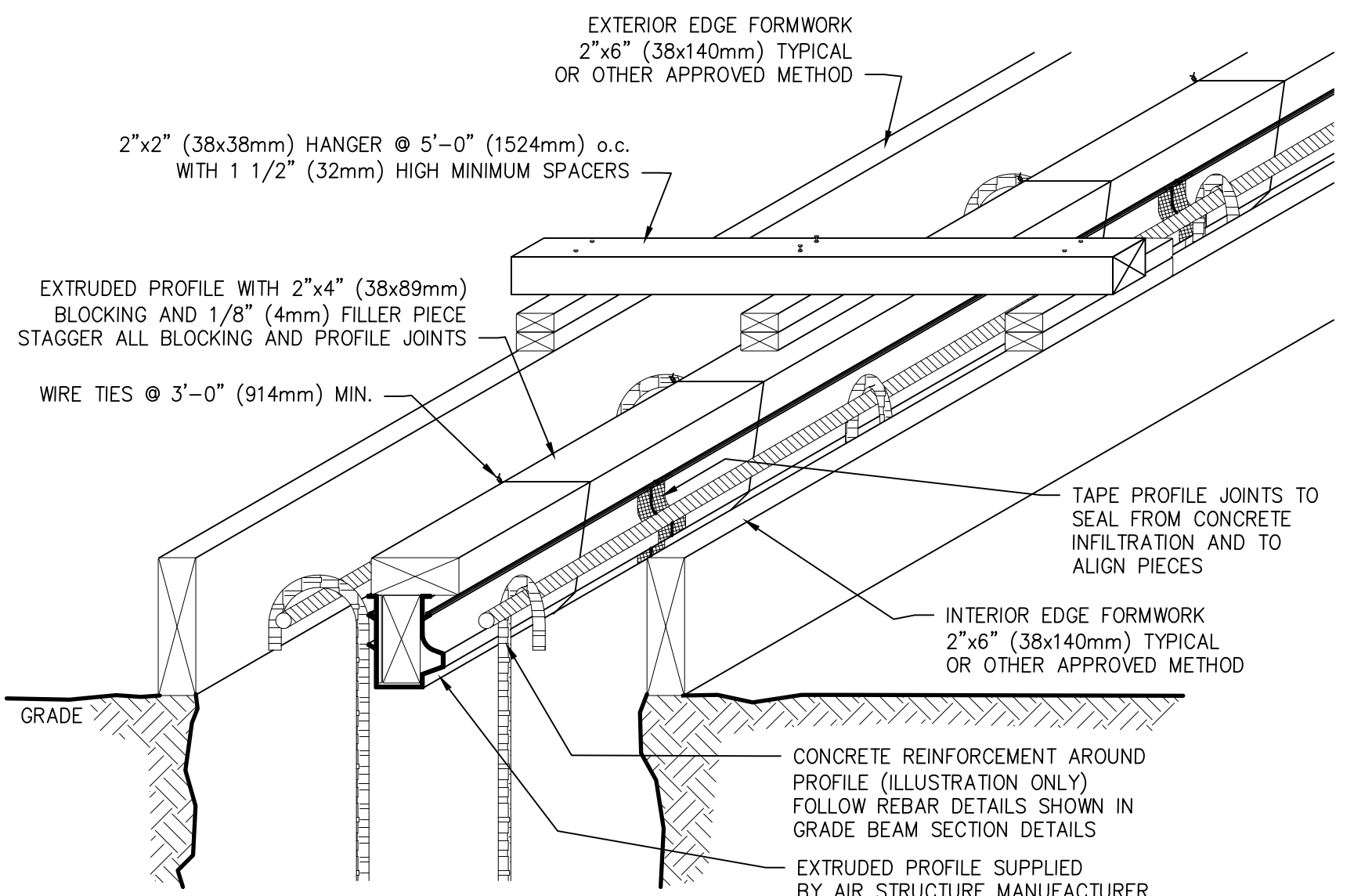
LOCATION:
64 MELROSE AVE. N.
HAMILTON, ON L8L 8C1

DRAWING:
INTERIOR PLAN LAYOUT 2

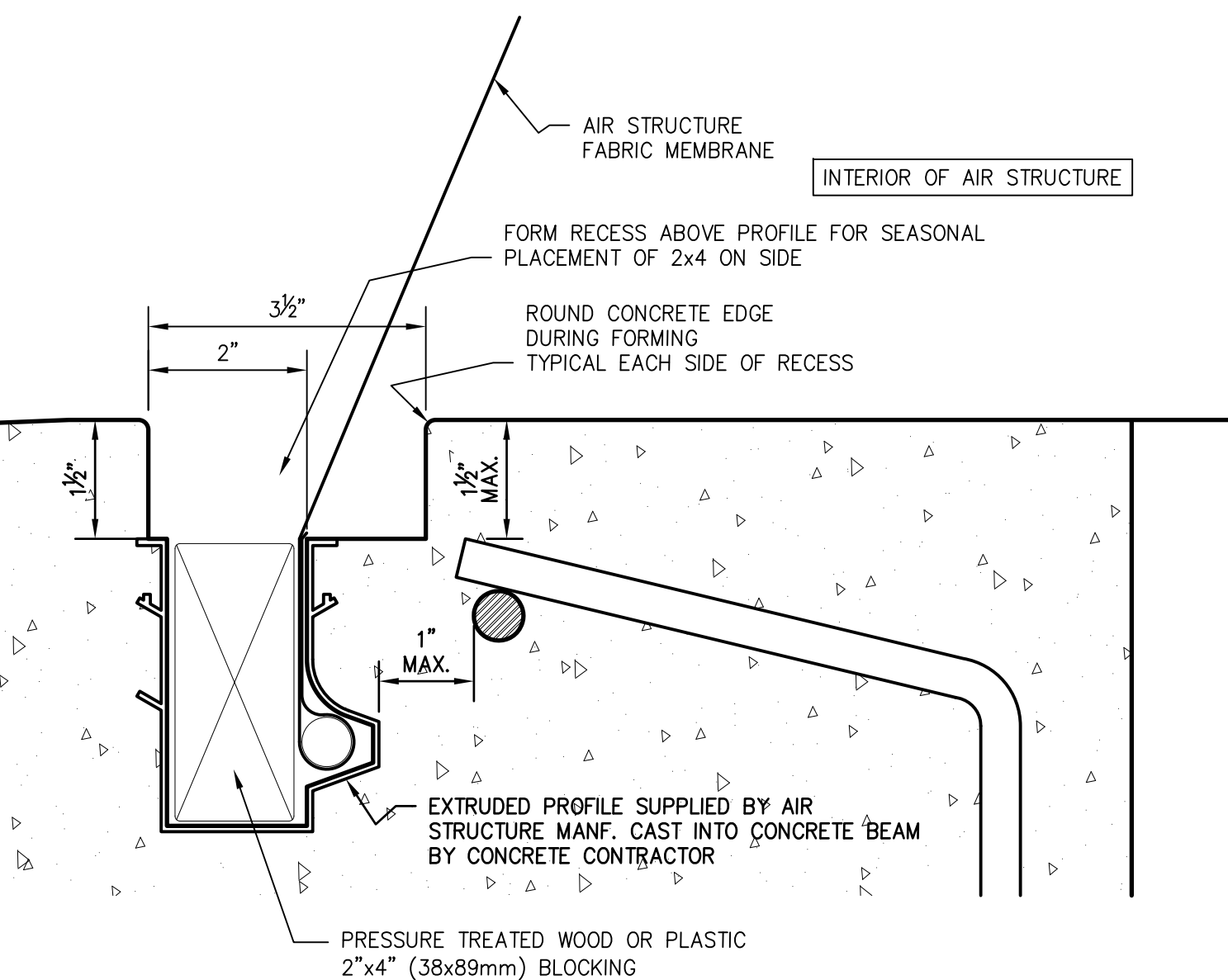
PROJECT NORTH:	DRN BY:	J.K.S.
	REVIEWED BY:	
	DATE:	JANUARY 11, 2016
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PLAN NORTH:	PROJ. #:	
	DRAWING #:	P3



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. SOIL FORMED:

THE SIMPLEST INSTALLATION UTILIZES THE SOIL AS A FORM FOR THE CONCRETE.

AN EXCAVATOR USING A BUCKET 2" (50mm) NARROWER THAN THE GRADE BEAM DIMENSION CAN EXCAVATE THE SPECIFIED WIDTH AND DEPTH. THIS WILL REQUIRE A FAIRLY STIFF SOIL THAT WILL RETAIN ITS SHAPE WHEN THE TRENCH IS CUT.

ALTERNATIVELY, IN LOOSE OR UNSTABLE SOILS THE 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.

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 #5 (15M). VERTICAL REBAR IS TYPICALLY #4 (10M). 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. METHOD 'B' WILL BE USED FOR THIS PROJECT.

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.

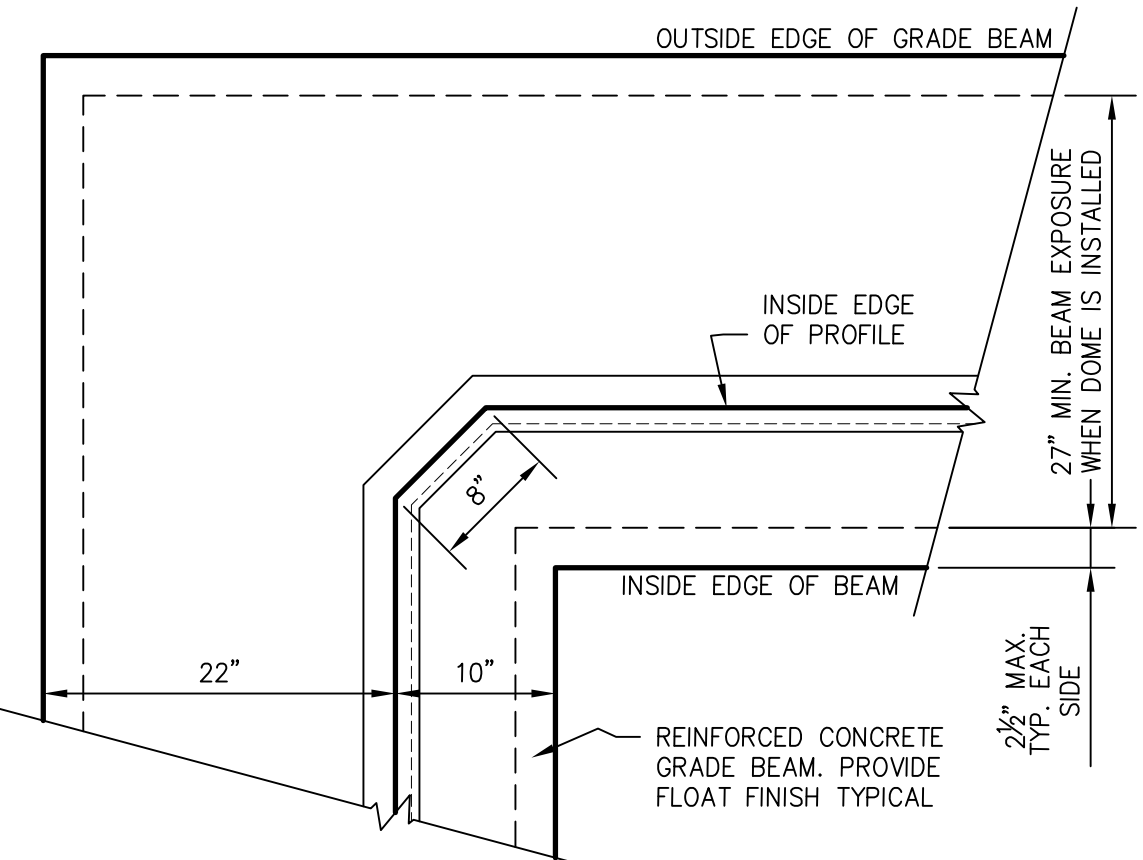
N.B.: REMOVE PACKING THE DAY AFTER POUR AS MOISTURE WILL SWELL LUMBER, MAKING REMOVAL DIFFICULT.

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.

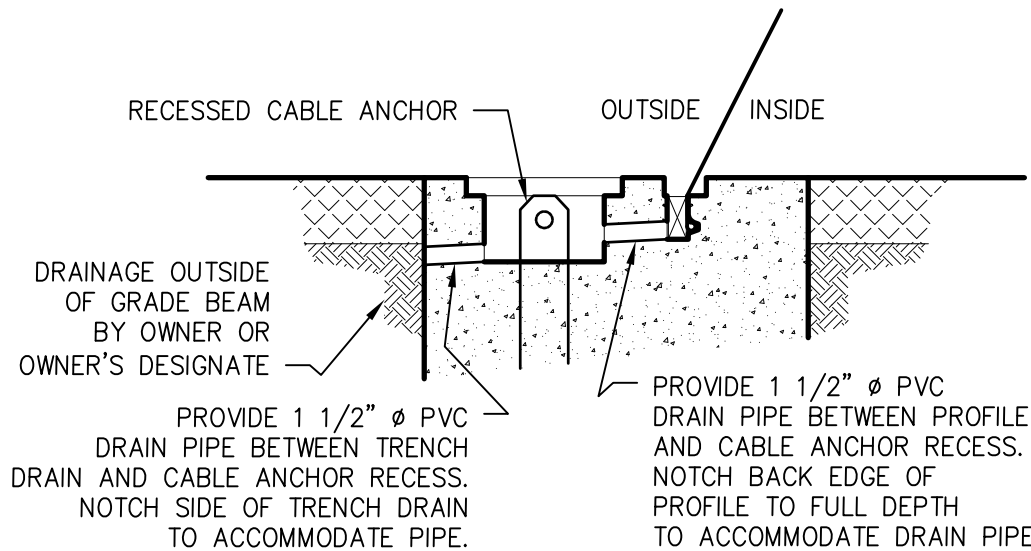
GENERAL DETAIL --- ON EACH CORNER OF THE STRUCTURE WILL BE A 45° ANGLE WHICH EASES INSTALLATION AND RELIEVES FABRIC STRESS (DETAIL 4/AS3). LAY A SHORT PIECE OF PROFILE ACROSS THE CORNER AS SHOWN AND CUT THROUGH INTERSECTIONS WITH A HAND SAW TO HAVE PERFECTLY MATCHING JOINTS.

PART 4. AIR STRUCTURE DRAINAGE:

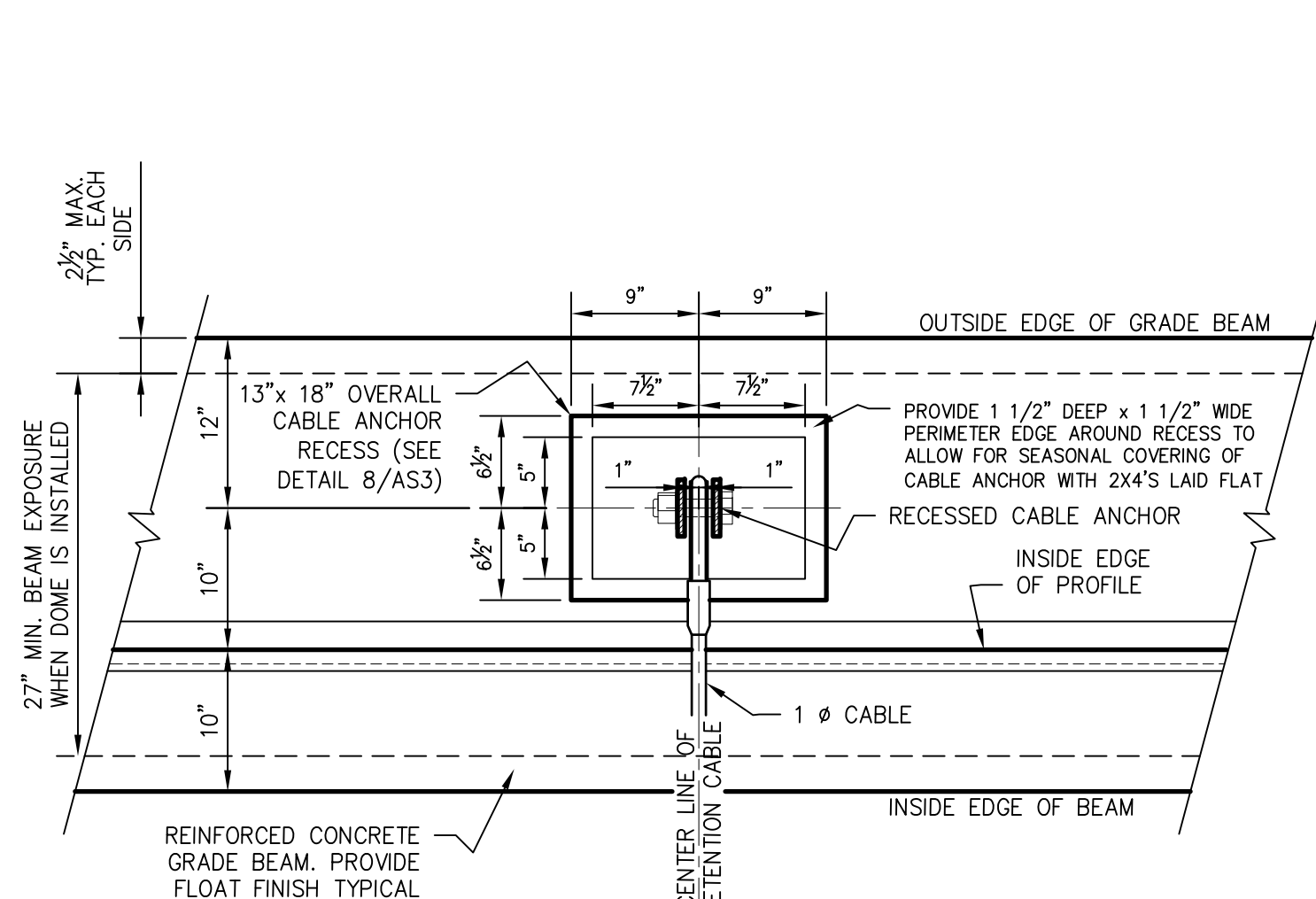
DRAINAGE (WHERE APPLICABLE) --- TO FACILITATE DRAINAGE FROM YOUR PROFILE, ESPECIALLY IN SITUATIONS WHERE TOP OF BEAM IS ABOVE EXTERIOR GRADE, WE RECOMMEND INSTALLING MIN. 1 1/2" WIDE DRAIN CHANNELS AT EVERY CORNER AND SIMILAR DRAIN CHANNELS SHOULD BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE BEAM 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.



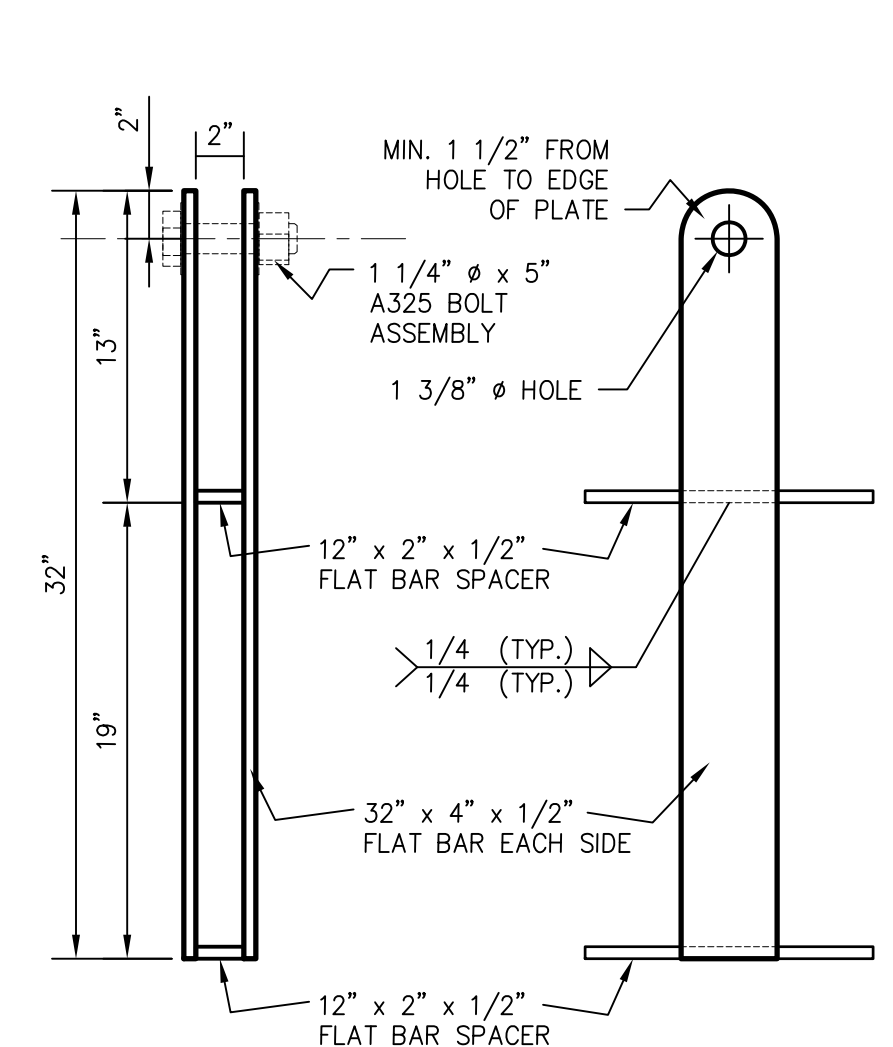
4 AS3 **TYPICAL BEAM CORNER DETAIL**
SCALE 1" = 1'-0"



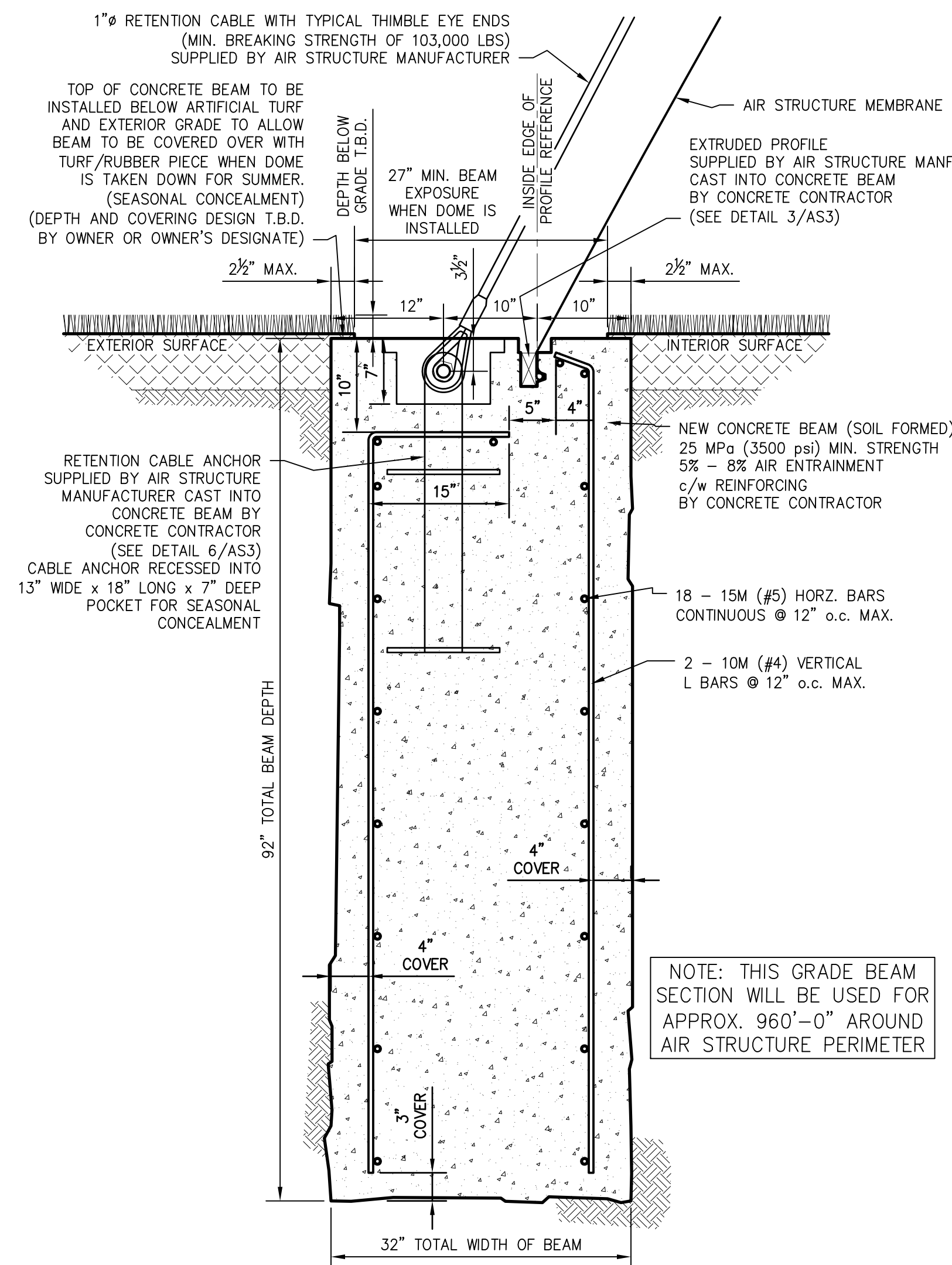
5 AS3 **TYP. CABLE RECESS DRAIN SECTION**
SCALE 3/4" = 1'-0"



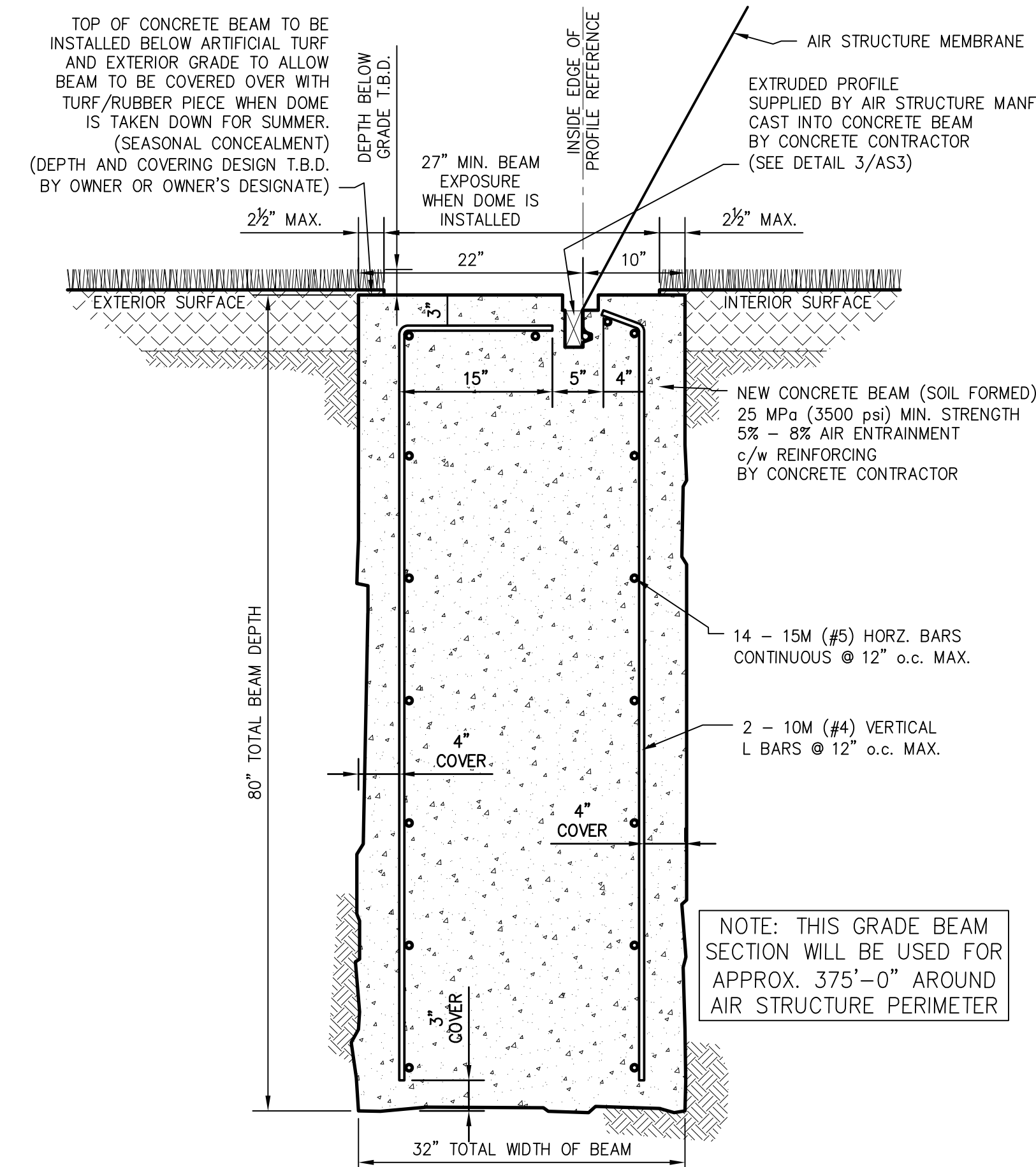
6 AS3 **TYP. CABLE ANCHOR PLAN DETAIL**
SCALE 1" = 1'-0"



7 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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PROPOSED AIR SUPPORTED STRUCTURE FOR MULTI-USE (218'-0" x 462'-0" x 66'-0")

LOCATION:
64 MELROSE AVE. N.
HAMILTON, ON L8L 8C1

DRAWING:
GRADE BEAM DETAILS (TYPICAL SOIL FORMED)

PROJECT NORTH:	DRN BY:	J.K.S.
REVIEWED BY:	DATE:	JANUARY 11, 2016
SCALE:	AS SHOWN	
PLAN NORTH:	PROJ. #:	
DRAWING #:		

AS3

GRADE BEAM INSTALLATION:

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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.

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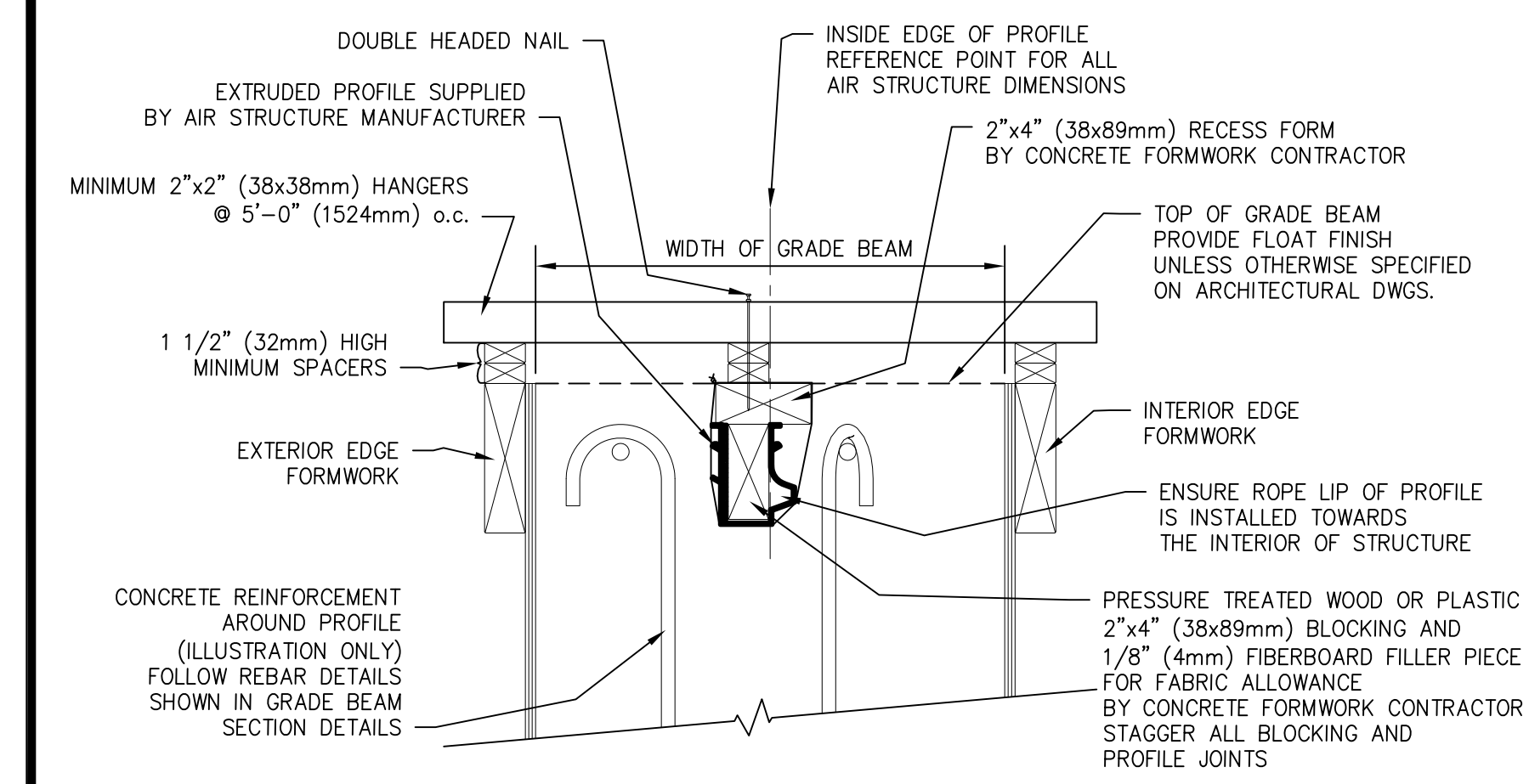
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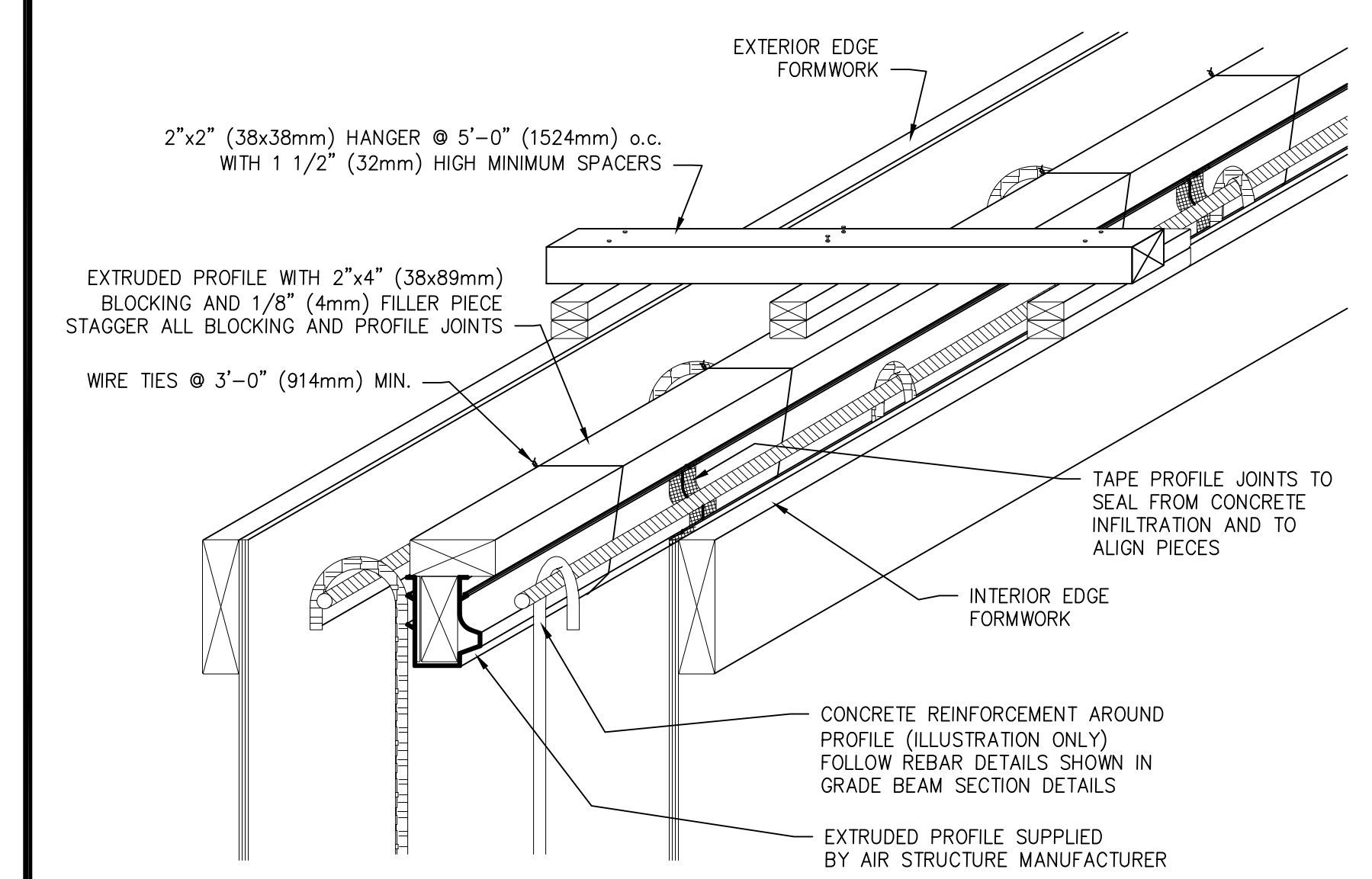
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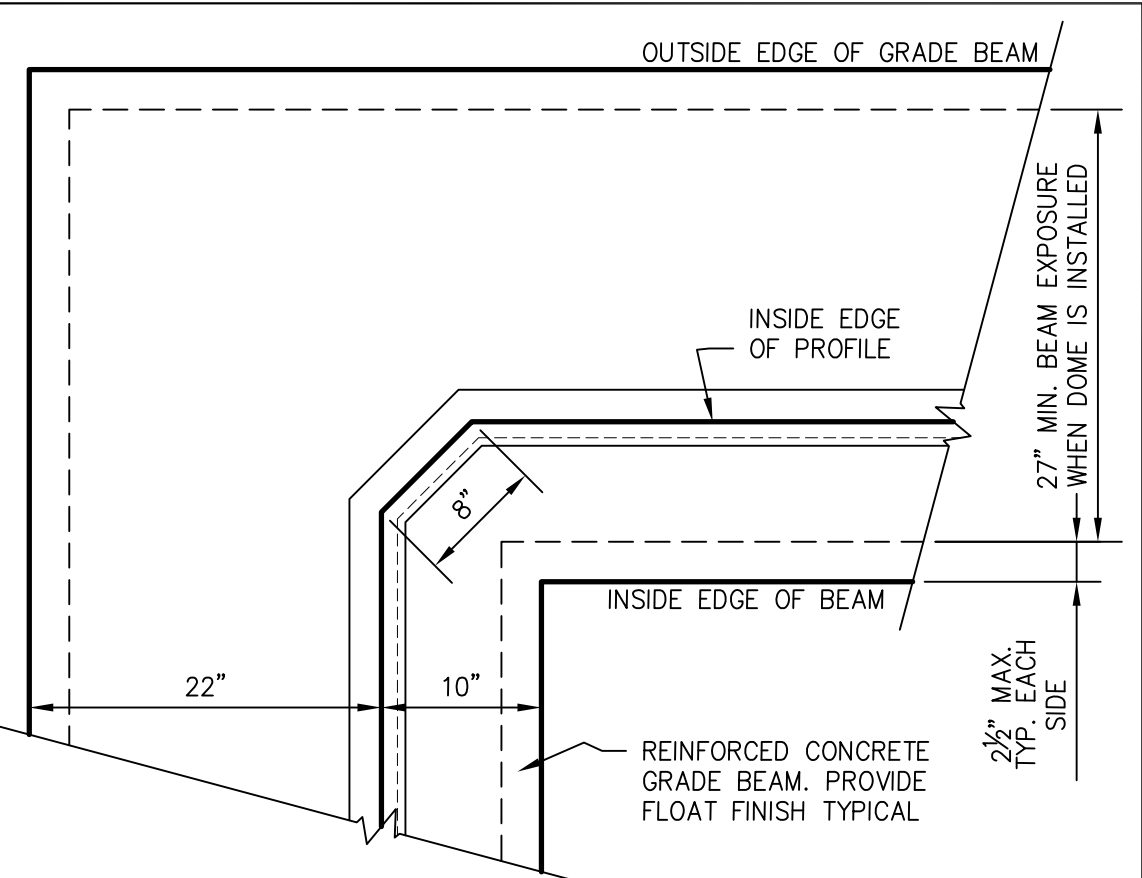


PRESSURE TREATED WOOD OR PLASTIC 2"x4" (38x89mm) BLOCKING USED FOR PROFILE INSTALLATION TO REMAIN FOR AIR STRUCTURE RETENTION BY CONCRETE FORMWORK CONTRACTOR

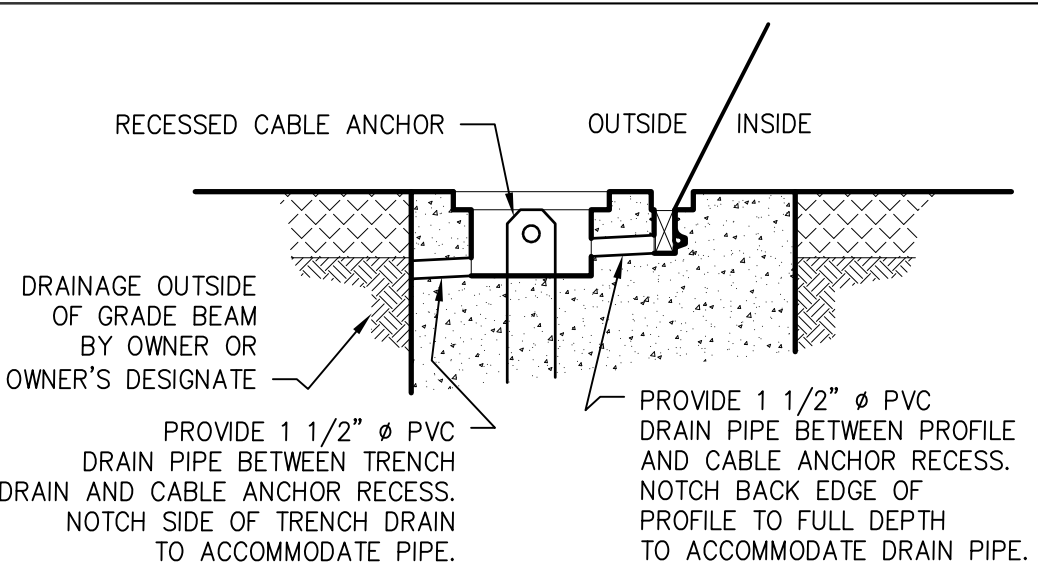
1 AS3 PROFILE INSTALLATION DETAIL (TYPE 'B') NOT TO SCALE



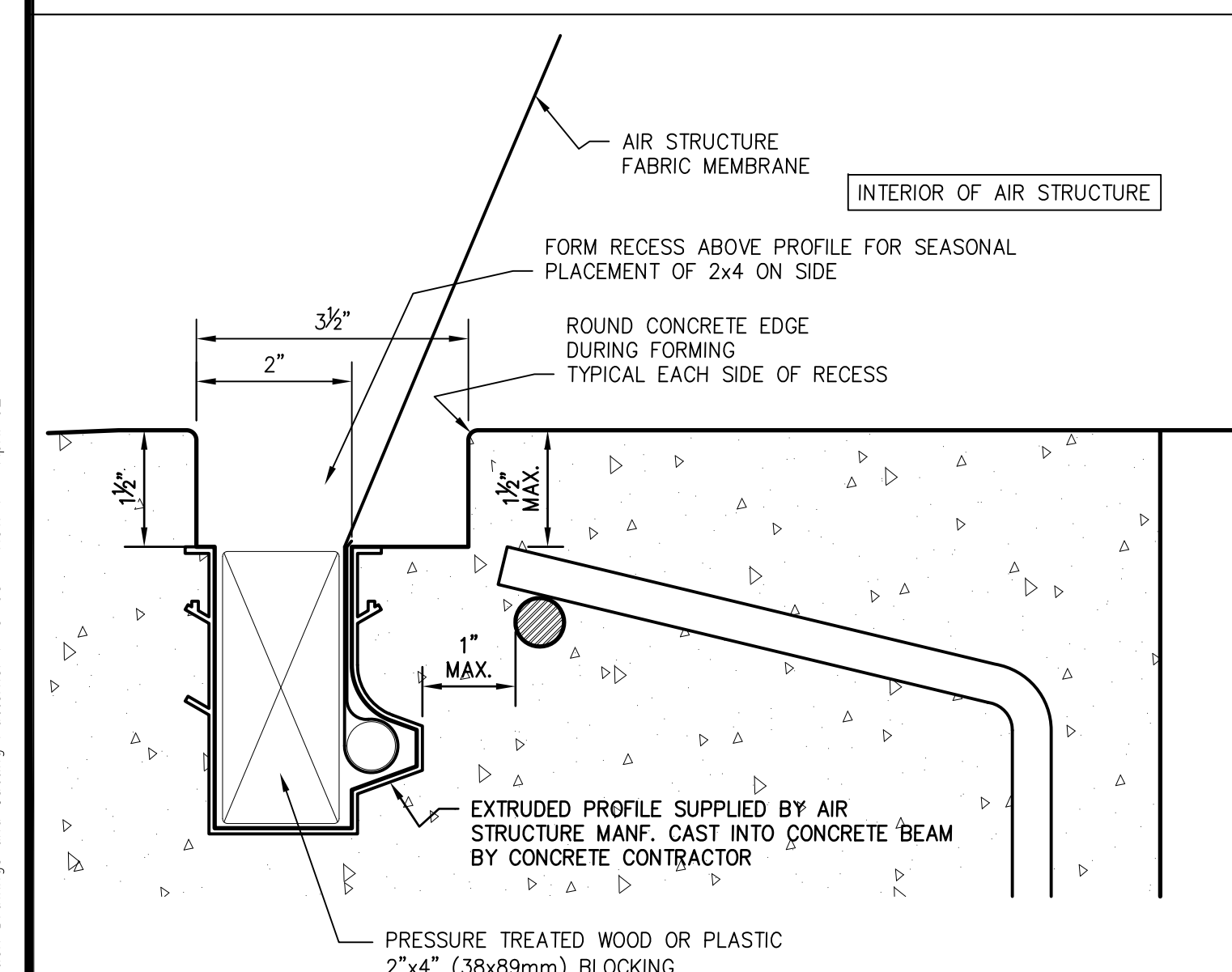
2 AS3 TYPICAL FORMING DETAIL FOR GRADE BEAM NOT TO SCALE



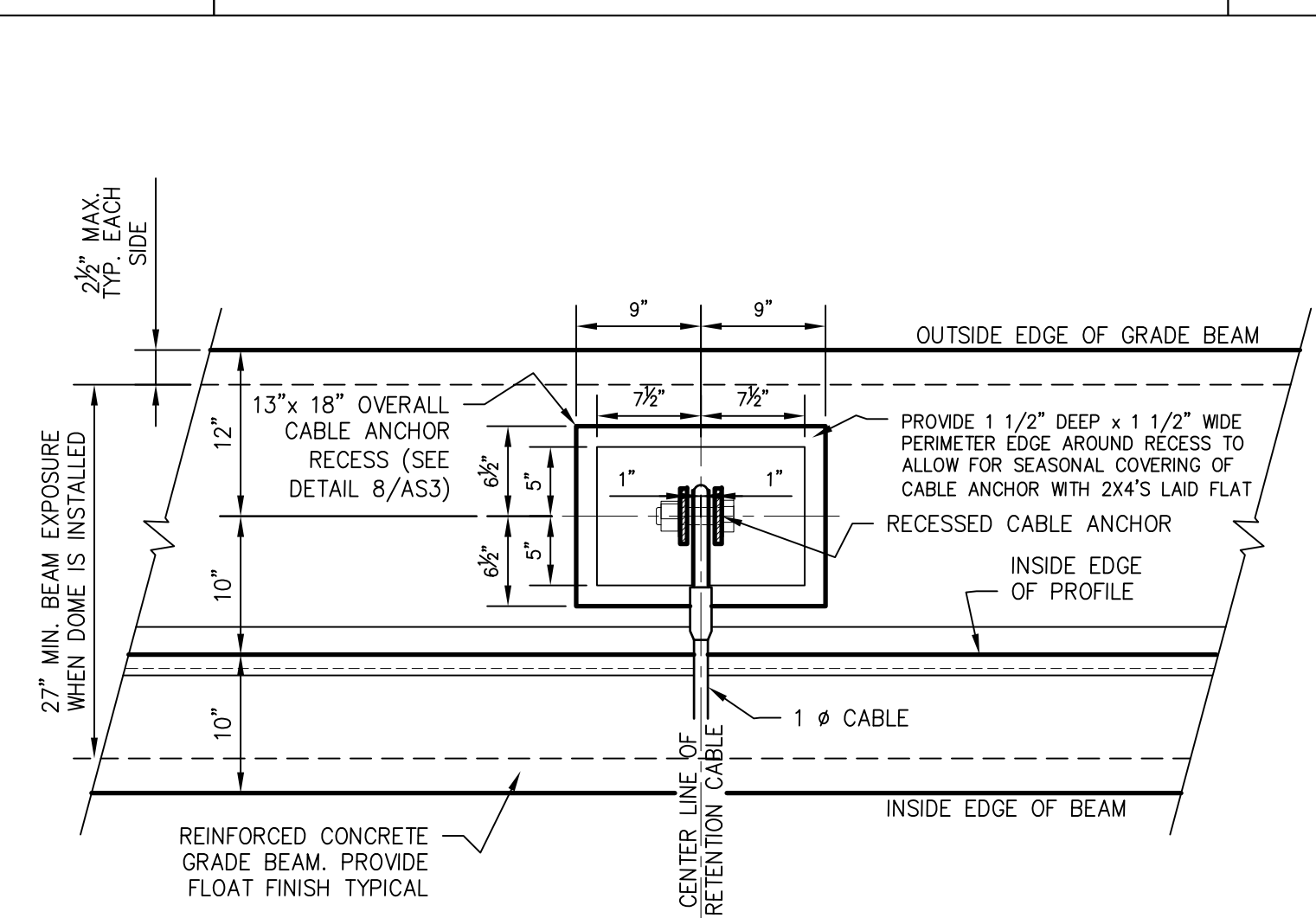
4 AS3 TYPICAL BEAM CORNER DETAIL SCALE 1" = 1'-0"



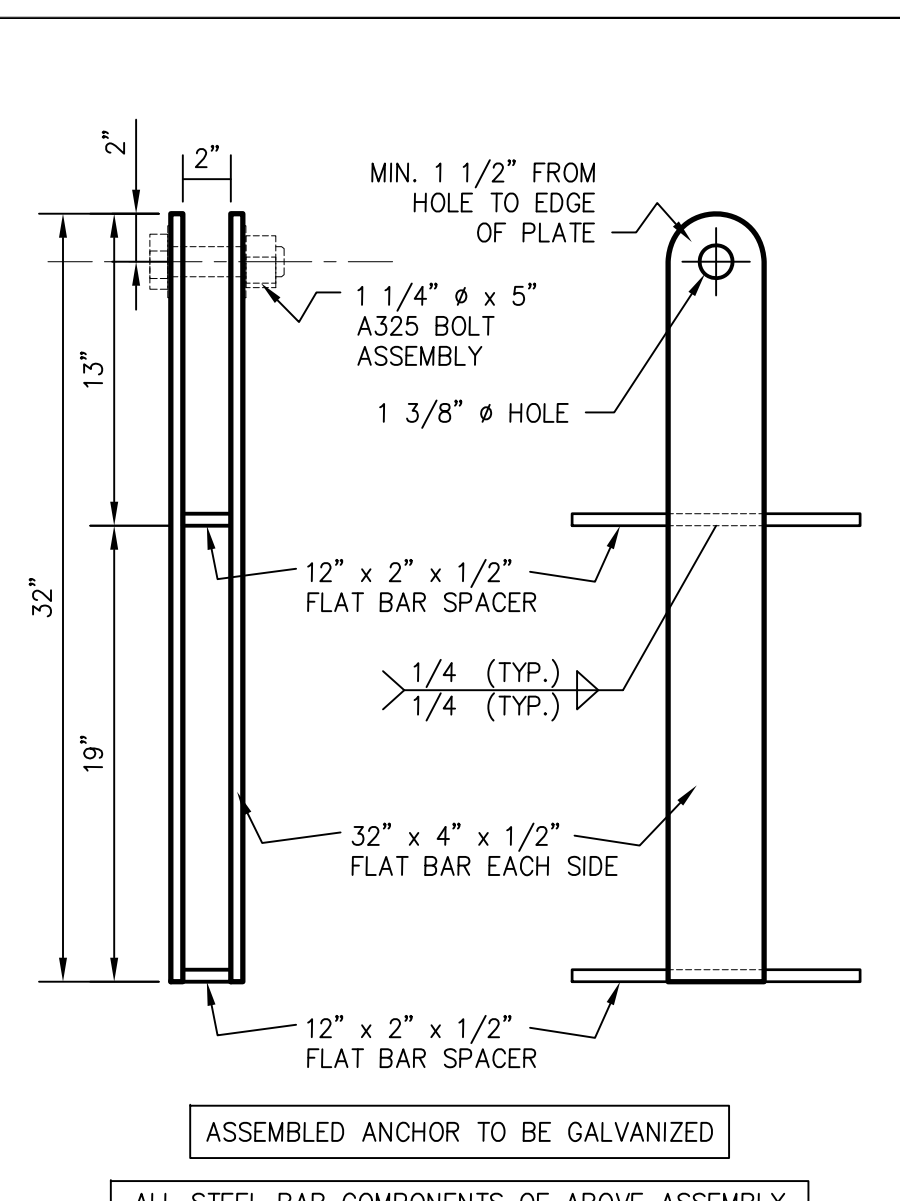
7 AS3 TYP. CABLE RECESS DRAIN SECTION SCALE 3/4" = 1'-0"



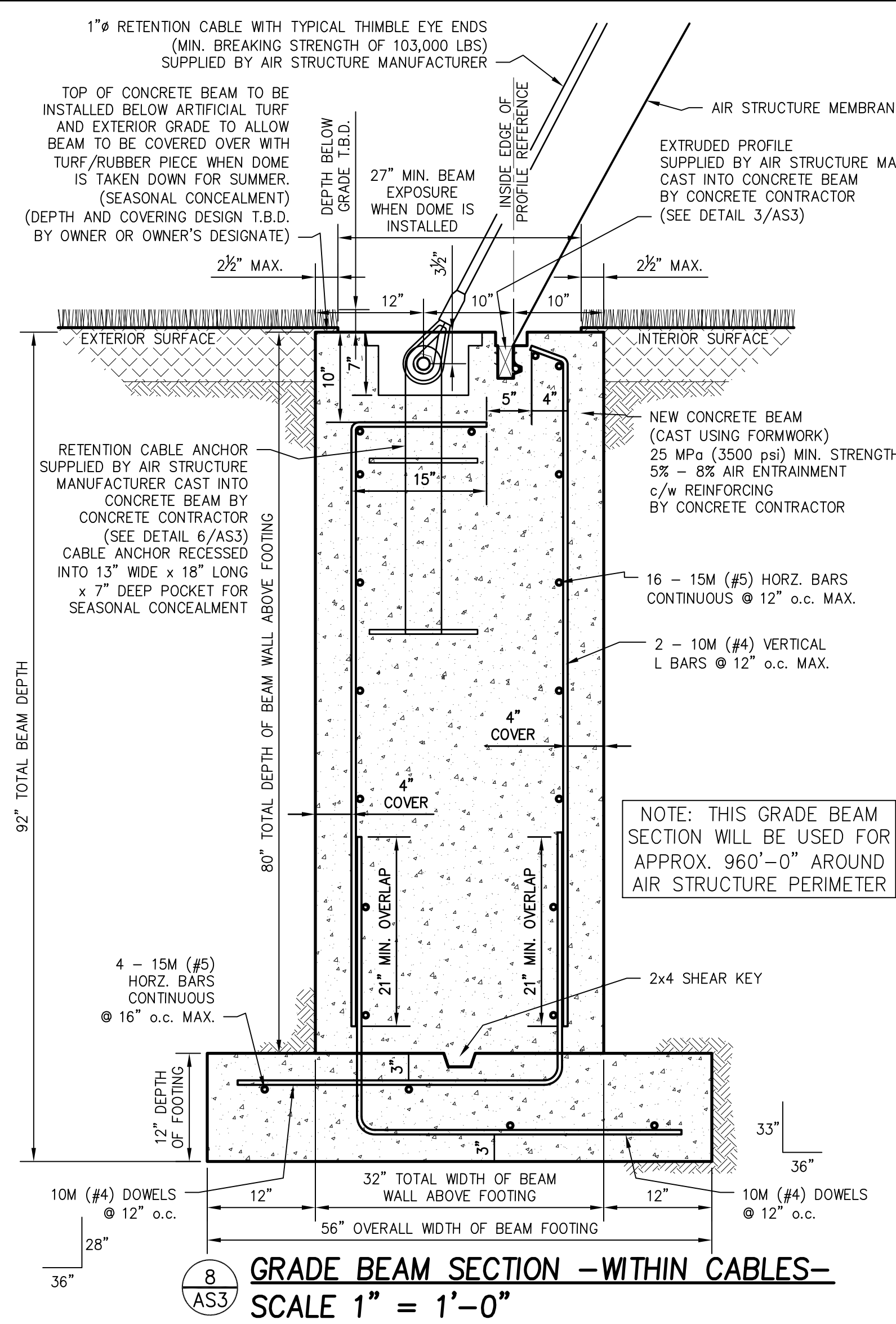
3 AS3 DETAIL OF REINFORCEMENT PLACEMENT AT PROFILE NOT TO SCALE



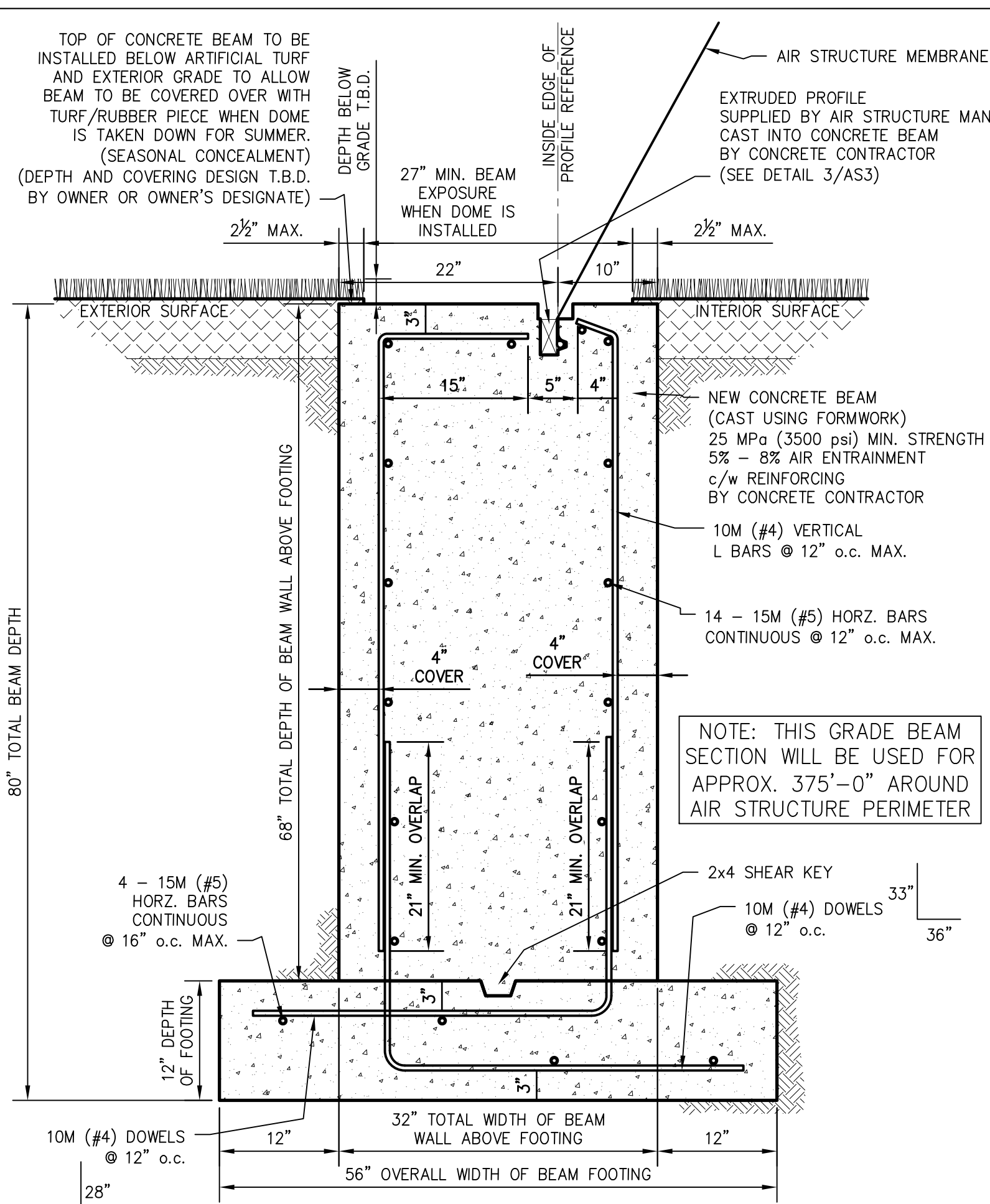
5 AS3 TYP. CABLE ANCHOR PLAN DETAIL SCALE 1" = 1'-0"



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"

NOTE: ALTERNATE GRADE BEAM DESIGN DETAILS SHOWN ON THIS SHEET CAN BE USED AS A DIRECT SUBSTITUTION FOR STANDARD SOIL FORMED BEAM DETAILS IN THEIR ENTIRETY OR AS A COMBINATION OF THE TWO DESIGNS (PART STANDARD AND PART ALTERNATE AROUND PERIMETER) TO SUIT SITE CONDITIONS.

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

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A	A --- DETAIL NUMBER
B	B --- SHEET WHERE DETAILED

==PRELIMINARY ONLY==
==NOT FOR CONSTRUCTION==

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: manf@thefarleygroup.com
Creative Space Solutions

CLIENT: **TIM HORTONS FIELD**

CLIENT ACCEPTANCE SIGNATURE:
 DATE ACCEPTED:
 PROJECT: **PROPOSED AIR SUPPORTED STRUCTURE FOR MULTI-USE (218'-0" x 462'-0" x 66'-0")**

LOCATION: **64 MELROSE AVE. N. HAMILTON, ON L8L 8C1**

DRAWING: **GRADE BEAM DETAILS - ALTERNATE DESIGN - (CAST USING FORMWORK)**

PROJECT NORTH:	DRN BY: J.K.S.
REVIEWED BY:	DATE: JANUARY 11, 2016
SCALE: AS SHOWN	PROJ. #:
PLAN NORTH:	DRAWING #: AS3a