

NORTH GRENVILLE POOL HOUSE

06/21/2022

Issued for Tender



Architectural Drawing List	
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A112	REFLECTED CEILING PLAN & ROOF PLAN
A113	NEW BUILDING ENLARGED PLAN
A114	EXISTING BUILDING ENLARGED PLAN
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A300	BUILDING SECTIONS
A400	WALL SECTIONS
A401	WALL SECTIONS
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A810	DOOR & FRAME SCHEDULE, ROOM FINISH SCHEDULE, AND EXTERIOR WINDOW ELEVATIONS
A900	ICE RINK SLAB PLAN & DETAILS
A910	ICE RINK SLAB & DASHER BOARD DETAILS

Name of Practice: Ontario Building Code Data Matrix, Part 3 1000 Highway 7 East, Unit 10 Richmond Hill, Ontario L4B 1N2 (905) 882-1111													
Name of Project: North Grenville Pool House 1000 Highway 7 East, Unit 10, Richmond Hill, Ontario													
Location: 1000 Highway 7 East, Unit 10, Richmond Hill, Ontario													
Date: January 24th 2022													
Ontario Building Code Data Matrix Part 3													
3.00	Building Code Version: <u>Q. Reg. 332/17</u> Last Amendment: <u>D. Reg. 191/14</u>												
3.01	Project Type: <input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Renovation <input type="checkbox"/> Change of use Description: Renovations to existing 1 storey building to contain pool equipment room offices and family change rooms with a new change room addition in a separate structure connected by the roof												
3.02	Major Occupancy Classification: <u>A2</u> <u>Change Rooms, Meeting Rooms</u> <u>F1</u> <u>Pool Mgmt Room and Chemical Storage</u> <u>D</u> <u>Office</u>												
3.03	Superimposed Major Occupancies: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Description:												
3.04	<table border="1"> <thead> <tr> <th>Description</th> <th>Existing</th> <th>New</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Footprint</td> <td>187.8</td> <td>167.7</td> <td>355.5</td> </tr> <tr> <td>Total</td> <td>187.8</td> <td>167.7</td> <td>355.5</td> </tr> </tbody> </table>	Description	Existing	New	Total	Footprint	187.8	167.7	355.5	Total	187.8	167.7	355.5
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3.06	Mezzanine Area (m ²): <u>N/A</u> Total: <u>0</u>
3.07	Building Height: <u>1</u> Storeys above grade <u>6410</u> (m) Above grade <u>0</u> Storeys below grade
3.08	High Building: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
3.09	Number of Streets/Firefighter access: <u>1</u> street(s)
3.10	Building Classification: <u>3.2.2.28</u> Group/Div: <u>Group A Div. 2</u>
3.11	Sprinkler System: <input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required Proposed: <input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input type="checkbox"/> none
3.12	Standpipe System: <input checked="" type="checkbox"/> Not required <input type="checkbox"/> Required
3.13	Fire Alarm System: <input type="checkbox"/> Required <input checked="" type="checkbox"/> Not required Proposed: <input type="checkbox"/> Single stage <input type="checkbox"/> Two stage <input type="checkbox"/> None
3.14	Water Service/Supply is Adequate: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
3.15	Construction Type: <input checked="" type="checkbox"/> Restriction: <input checked="" type="checkbox"/> Combustible permitted <input type="checkbox"/> Non-combustible required Actual: <input type="checkbox"/> Combustible <input type="checkbox"/> Non-combustible <input checked="" type="checkbox"/> Combination Heavy Timber Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
3.16	Importance Category: <input checked="" type="checkbox"/> Low <input type="checkbox"/> Low human occupancy <input type="checkbox"/> Post-disaster shelter <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Minor storage building <input type="checkbox"/> Explosive or hazardous substances <input type="checkbox"/> High <input type="checkbox"/> Post-disaster
3.17	Seismic Hazard Index: (I _s Fa Sa (0.2)) = _____ Seismic design required for Table 4.1.8.18, items 6 to 21: (I _s Fa Sa (0.2)) ≥ 0.35 or Post-disaster <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes

3.18	<table border="1"> <thead> <tr> <th>Floor Level/Area</th> <th>Occupancy Type</th> <th>Based On</th> <th>Occupant Load (Persons)</th> </tr> </thead> <tbody> <tr> <td>Staff Training Area</td> <td>A2</td> <td>use</td> <td>20</td> </tr> <tr> <td>Family Change Rm.</td> <td>A2</td> <td>use</td> <td>(2 x 3 ppl.) 6</td> </tr> <tr> <td>Change Rooms</td> <td>A2</td> <td>use/signs</td> <td>(2 x 25ppl.) 50</td> </tr> <tr> <td></td> <td></td> <td></td> <td>76</td> </tr> </tbody> </table>	Floor Level/Area	Occupancy Type	Based On	Occupant Load (Persons)	Staff Training Area	A2	use	20	Family Change Rm.	A2	use	(2 x 3 ppl.) 6	Change Rooms	A2	use/signs	(2 x 25ppl.) 50				76															
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3.19	Barrier-free Design: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																			
3.20	Hazardous Substances: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																			
3.21	<table border="1"> <thead> <tr> <th>Horizontal Assembly</th> <th>Rating</th> <th>Supporting Assembly (H)</th> <th>Noncombustible in lieu of rating?</th> </tr> </thead> <tbody> <tr> <td>Floors over basement</td> <td>0</td> <td>0</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A</td> </tr> <tr> <td>Floors</td> <td>0</td> <td>0</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A</td> </tr> <tr> <td>Mezzanine</td> <td>0</td> <td>0</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A</td> </tr> <tr> <td>Roof</td> <td>0</td> <td>0</td> <td><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A</td> </tr> </tbody> </table>	Horizontal Assembly	Rating	Supporting Assembly (H)	Noncombustible in lieu of rating?	Floors over basement	0	0	<input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	Floors	0	0	<input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	Mezzanine	0	0	<input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	Roof	0	0	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A															
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3.23	Ratio: <u>Male/Female = 50/50 Except as noted otherwise</u> <table border="1"> <thead> <tr> <th>Floor Level/Area</th> <th>Occupant Load</th> <th>OBC Reference</th> <th>Fixtures Required</th> <th>Fixtures Provided</th> </tr> </thead> <tbody> <tr> <td>Level 1 / 354m²</td> <td>38 ppl/sex</td> <td>3.7.4.3</td> <td>2 male & 3 female</td> <td>8</td> </tr> </tbody> </table>	Floor Level/Area	Occupant Load	OBC Reference	Fixtures Required	Fixtures Provided	Level 1 / 354m ²	38 ppl/sex	3.7.4.3	2 male & 3 female	8																									
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3.24	Energy Efficiency: Compliance Path: <u>SB-10, Table SB 5.5 - 6</u> Climatic Zone: <u>Zone 6</u>
3.25	Notes:

¹ All references are to Division B of the OBC unless preceded by [A] for Division A and [C] for Division C.



NORTH GRENVILLE POOL HOUSE

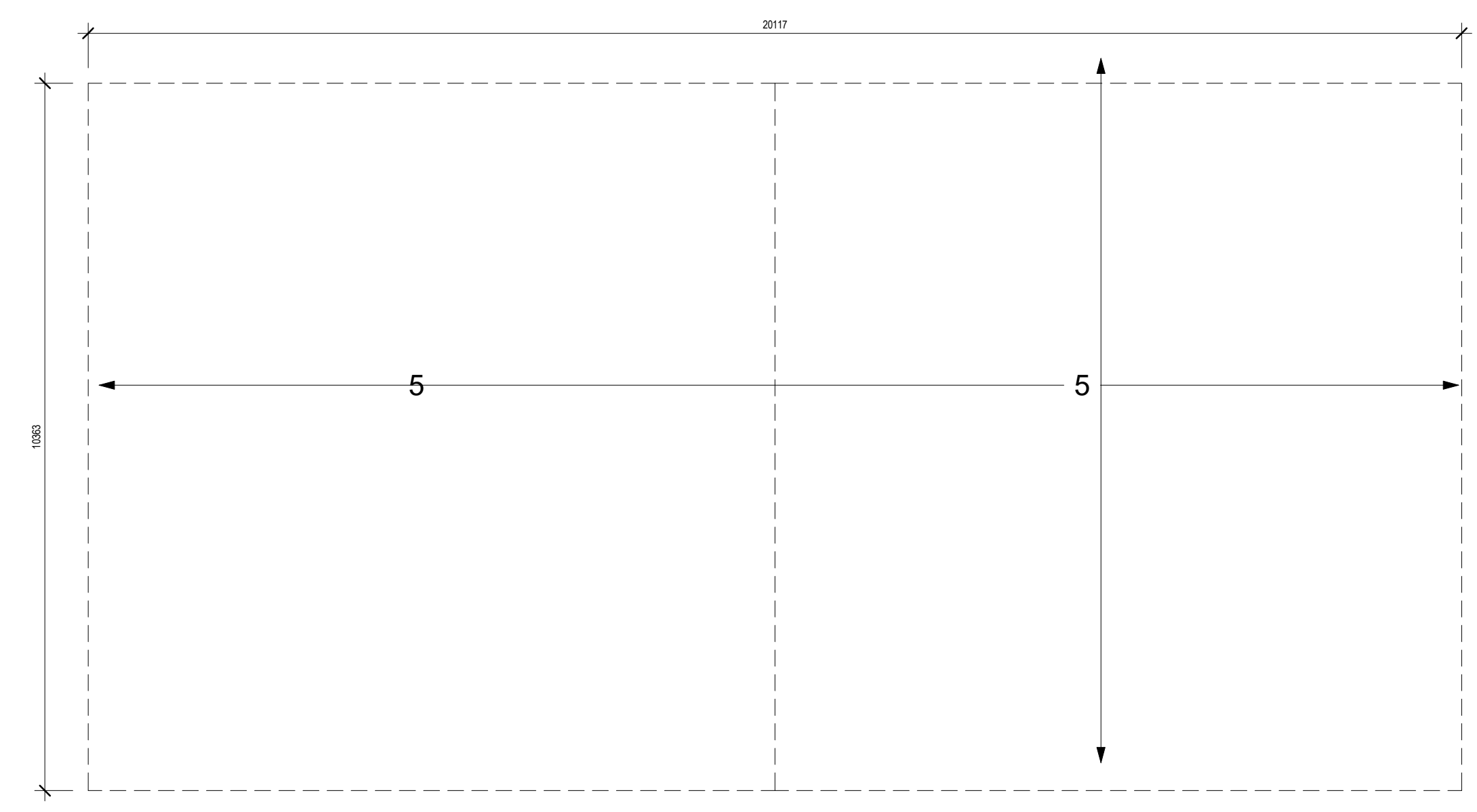
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DEMO FLOOR PLAN, ROOF PLAN & ELEVATIONS

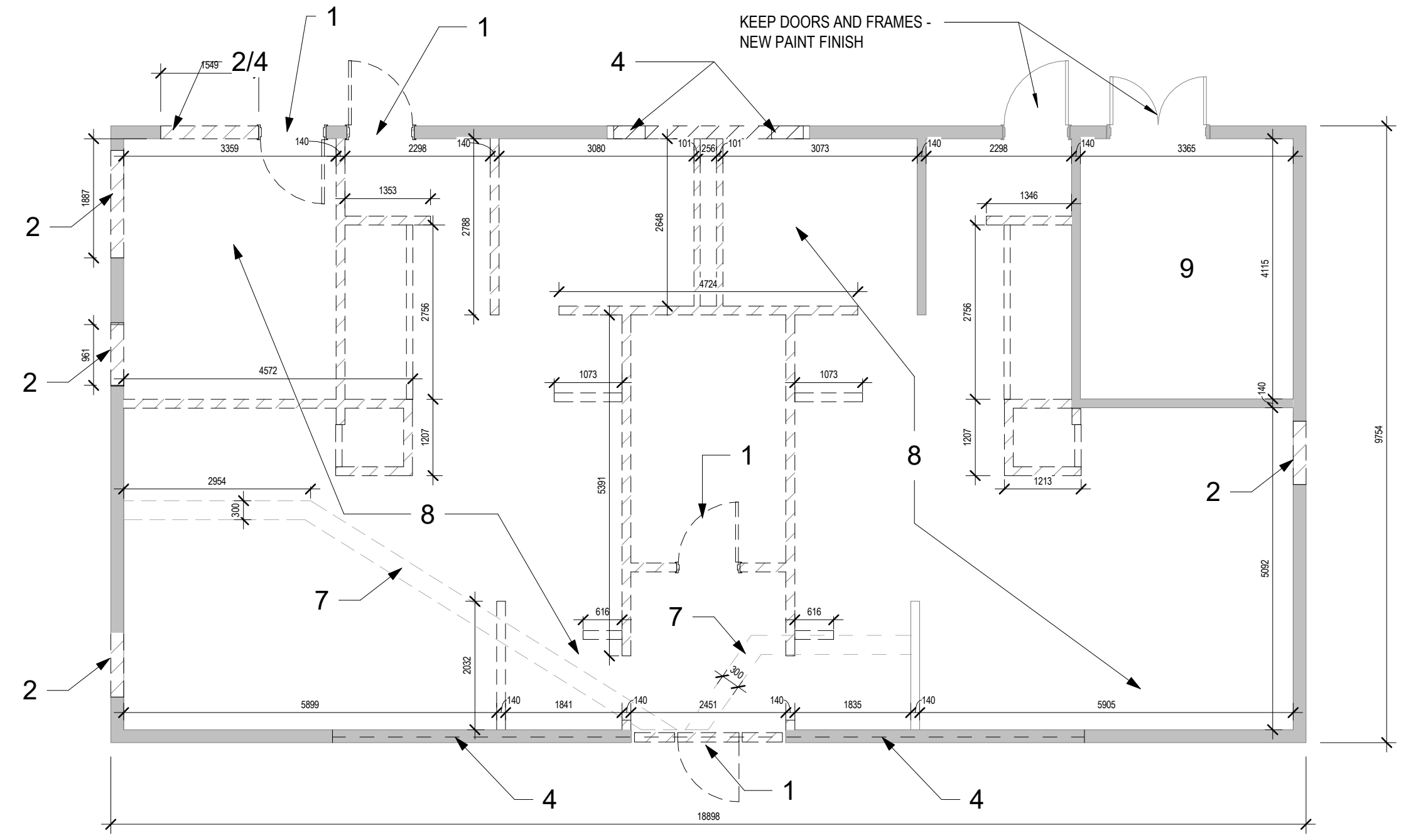
DEMO LEGEND

1. Remove and dispose existing door and frame.
2. Neatly saw cut masonry wall as req'd. for new opening.
3. Existing CMU to remain.
4. Remove existing window. Maintain block wall below.
5. Neatly remove existing roof finishes and structure - Maintain bearing plates in walls
6. Neatly remove masonry and wall structure above existing eave line
7. Cut exist. conc. floor slab as req'd. for new drain lines. Coordinate w/ mech. dwgs. Area shown is approximate.
8. Remove existing floor tile - Make ready for new floor tile.
9. No demolition work in this room.

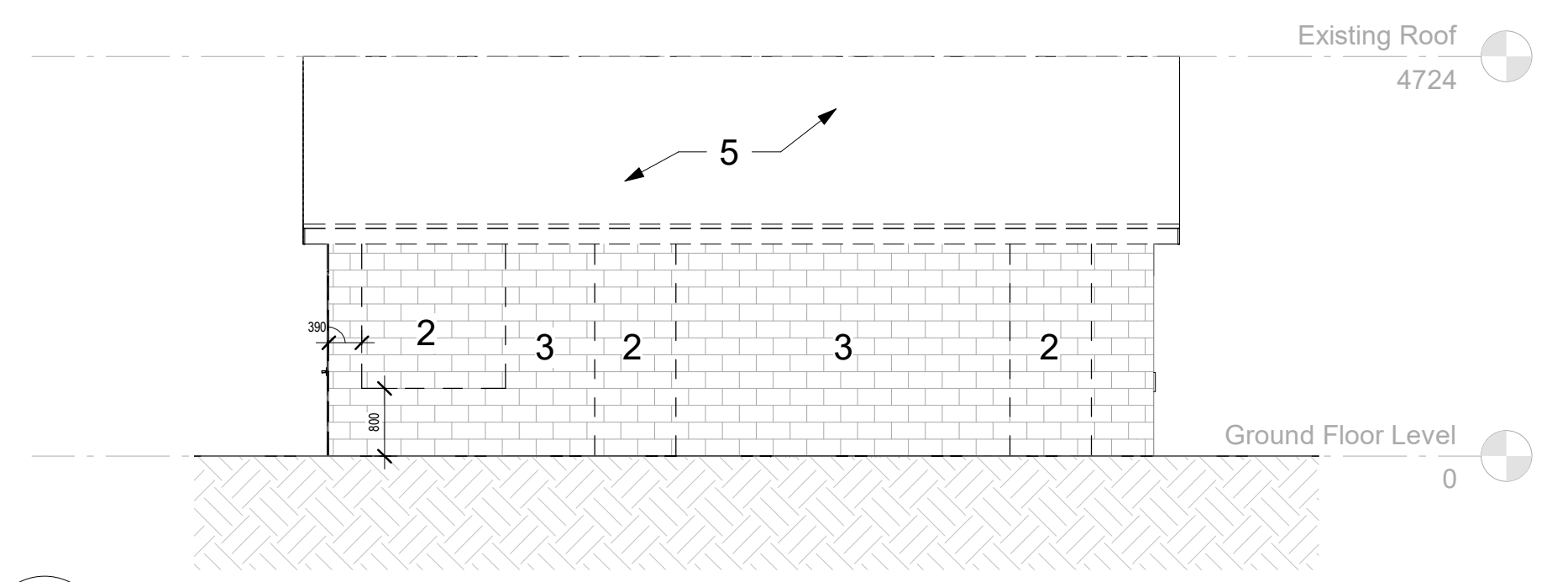
-  Existing wall to remain
-  Existing wall to be demolished



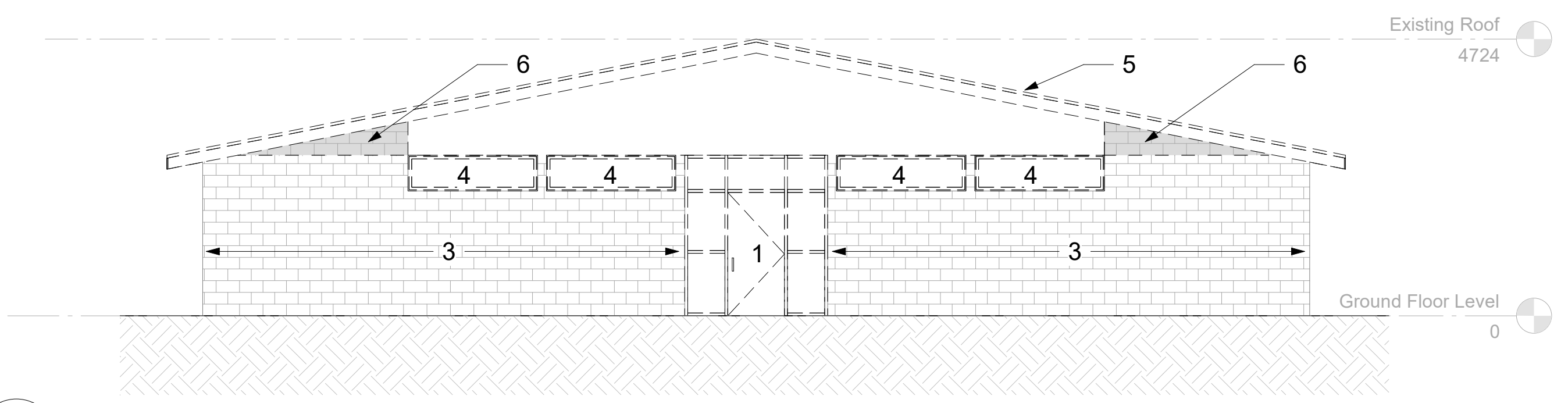
1 Roof Plan - Demo
A100 1:75



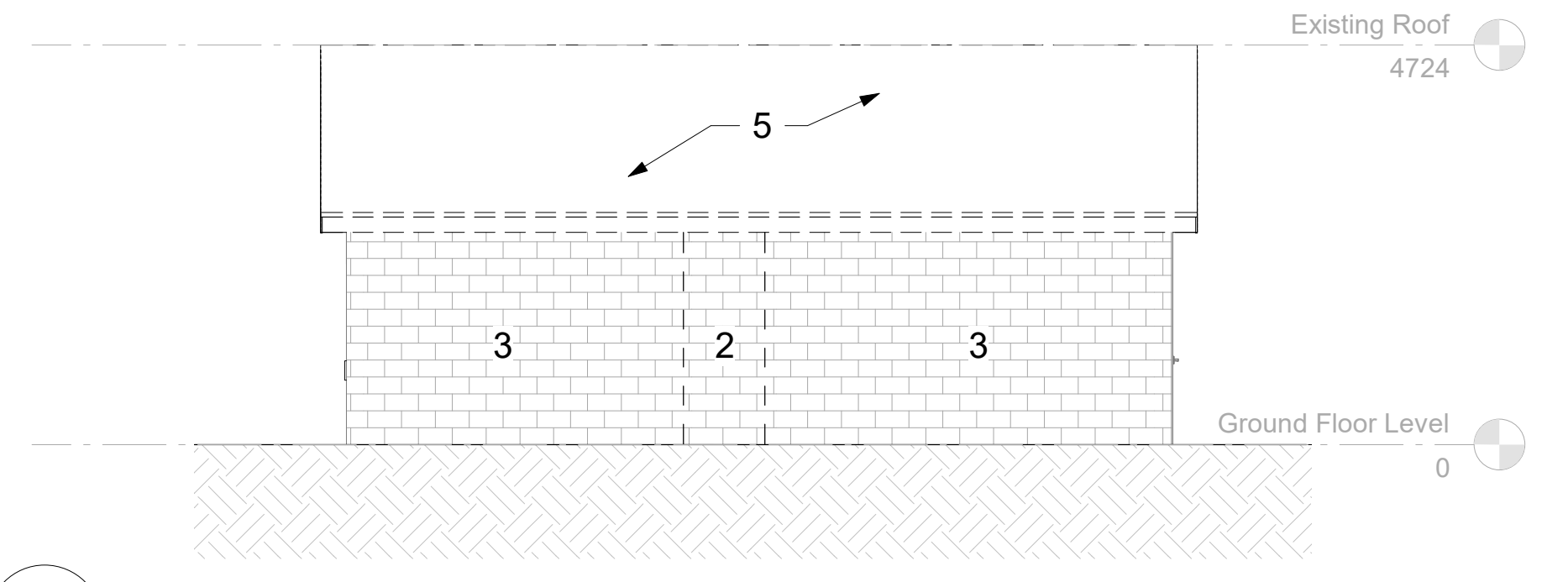
2 Ground Floor Level - Demo
A100 1:75



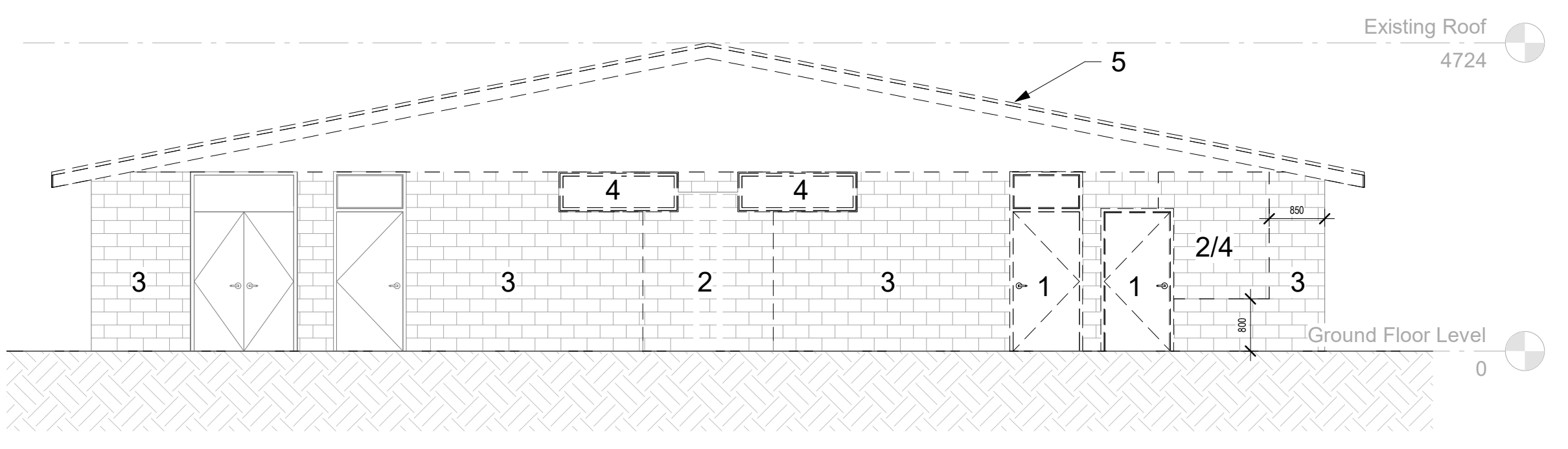
3 East - Demo
A100 1:75



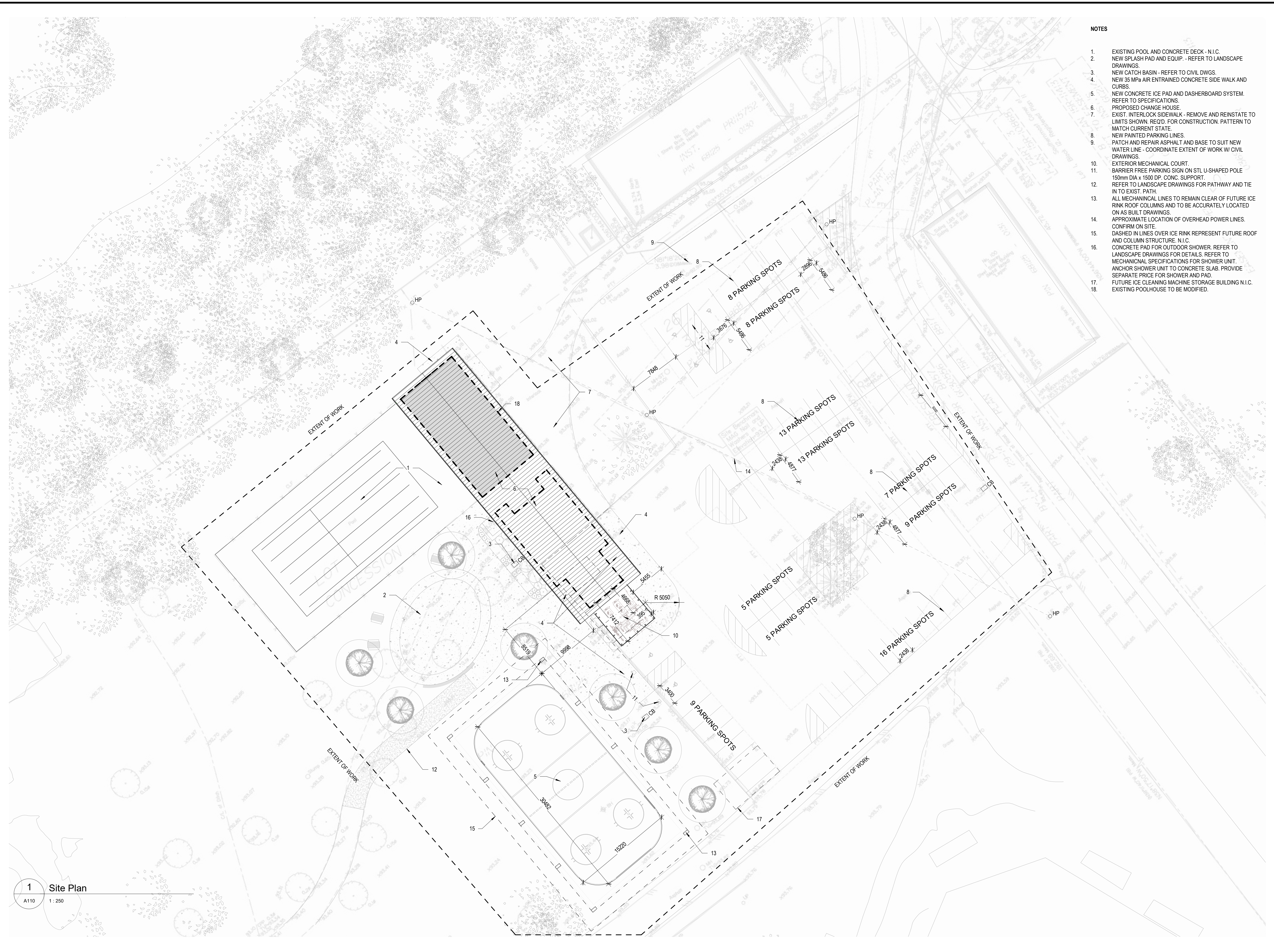
4 North - Demo
A100 1:75



5 West - Demo
A100 1:75



6 South - Demo
A100 1:75



- NOTES**
- EXISTING POOL AND CONCRETE DECK - N.I.C.
 - NEW SPLASH PAD AND EQUIP. - REFER TO LANDSCAPE DRAWINGS.
 - NEW CATCH BASIN - REFER TO CIVIL DWGS.
 - NEW 35 MPa AIR ENTRAINED CONCRETE SIDE WALK AND CURBS.
 - NEW CONCRETE ICE PAD AND DASHBOARD SYSTEM. REFER TO SPECIFICATIONS.
 - PROPOSED CHANGE HOUSE.
 - EXIST. INTERLOCK SIDEWALK - REMOVE AND REINSTATE TO LIMITS SHOWN. RECD. FOR CONSTRUCTION. PATTERN TO MATCH CURRENT STATE.
 - NEW PAINTED PARKING LINES.
 - PATCH AND REPAIR ASPHALT AND BASE TO SUIT NEW WATER LINE - COORDINATE EXTENT OF WORK W/ CIVIL DRAWINGS.
 - EXTERIOR MECHANICAL COURT. BARRIER FREE PARKING SIGN ON STL U-SHAPED POLE 150mm DIA x 1500 DP. CONC. SUPPORT.
 - REFER TO LANDSCAPE DRAWINGS FOR PATHWAY AND TIE IN TO EXIST. PATH.
 - ALL MECHANICAL LINES TO REMAIN CLEAR OF FUTURE ICE RINK ROOF COLUMNS AND TO BE ACCURATELY LOCATED ON AS BUILT DRAWINGS.
 - APPROXIMATE LOCATION OF OVERHEAD POWER LINES. CONFIRM ON SITE.
 - DASHED IN LINES OVER ICE RINK REPRESENT FUTURE ROOF AND COLUMN STRUCTURE. N.I.C.
 - CONCRETE PAD FOR OUTDOOR SHOWER. REFER TO LANDSCAPE DRAWINGS FOR DETAILS. REFER TO MECHANICAL SPECIFICATIONS FOR SHOWER UNIT. ANCHOR SHOWER UNIT TO CONCRETE SLAB. PROVIDE SEPARATE PRICE FOR SHOWER AND PAD.
 - FUTURE ICE CLEANING MACHINE STORAGE BUILDING N.I.C.
 - EXISTING POOLHOUSE TO BE MODIFIED.

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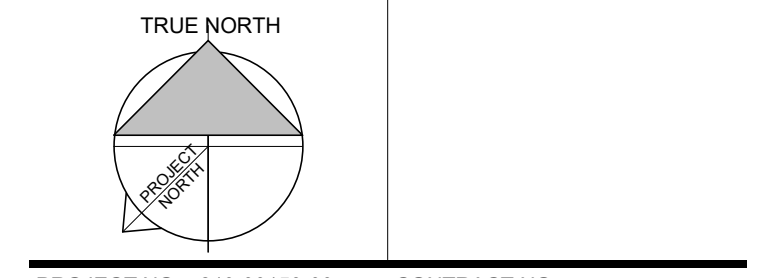
CONSULTANT
WSP
1224 GARDINERS ROAD, SUITE 201, KINGSTON, ON,
CANADA K7P 0G2 | Phone: 613-634-7373 | www.wsp.com

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DRAWN BY: S.D. CHECKED BY: W.P. APPROVED BY: Approver

KEYPLAN:

1 2022-06-17 ISSUED FOR TENDER
NO. DATE ISSUED
PROJECT

NORTH GRENVILLE POOL HOUSE

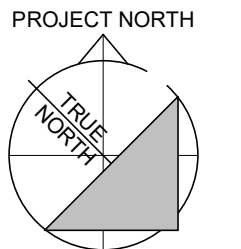
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SITE PLAN

DRAWING NO. **A110**

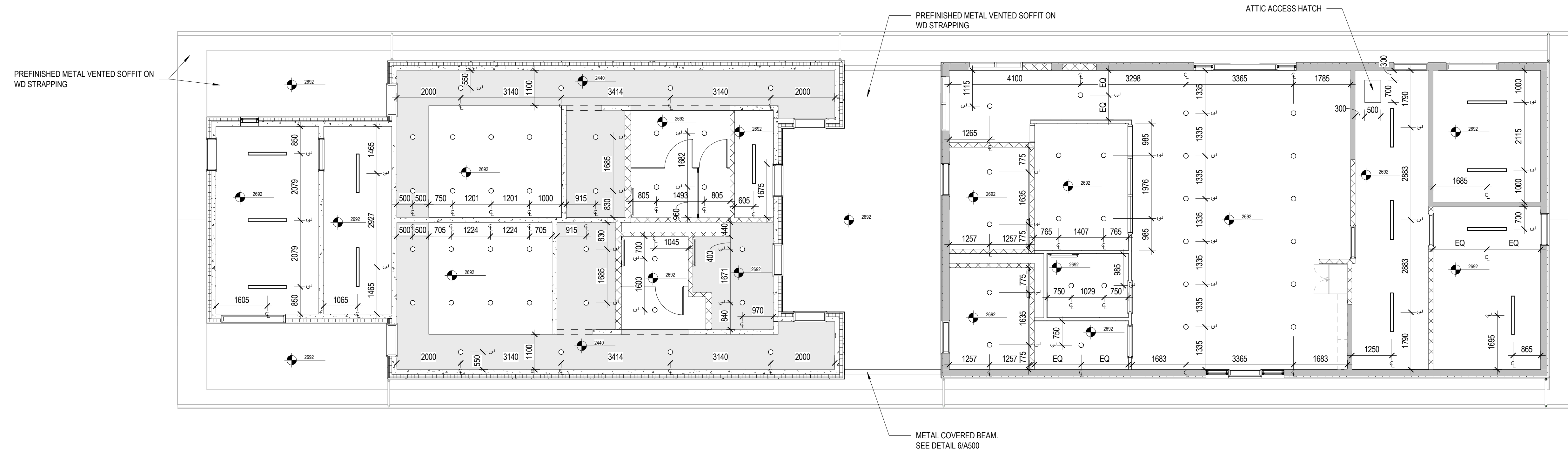
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1 Site Plan
A110 1:250



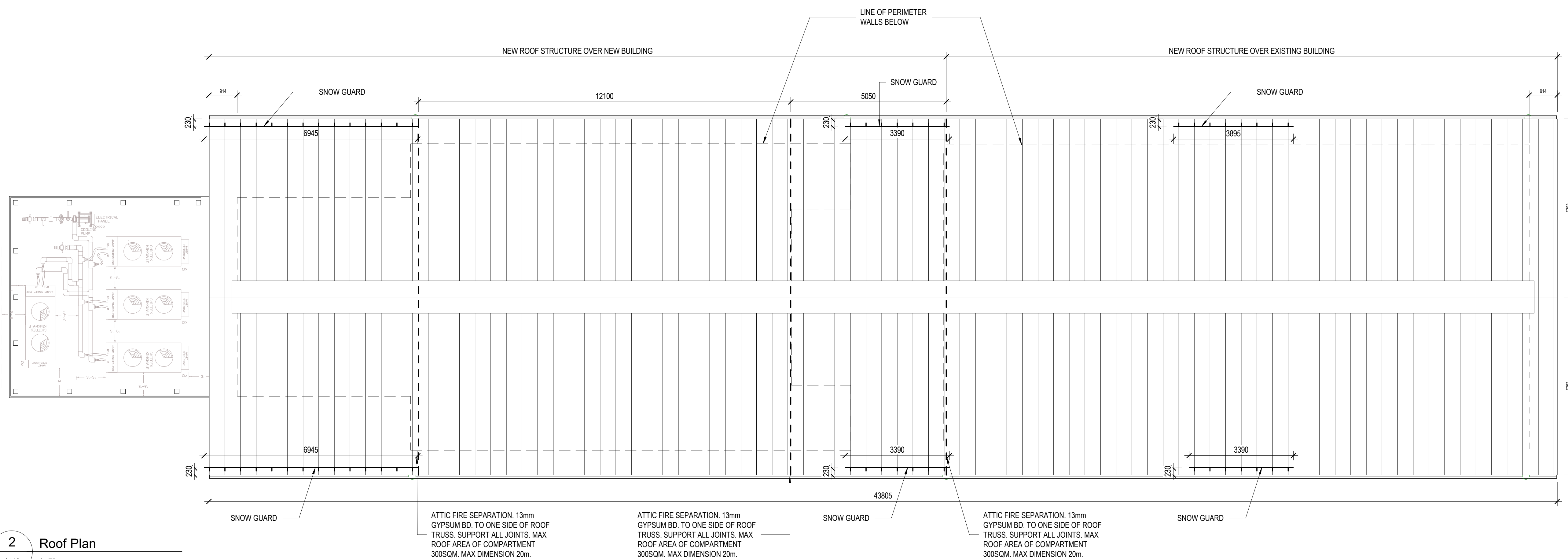
GENERAL NOTES

- ALL STUD PARTITIONS ARE DIMENSIONED TO FACE OF STEEL STUD UNLESS NOTED OTHERWISE.
- ALL CONCRETE MASONRY PARTITIONS ARE DIMENSIONED TO FACE OF CONCRETE MASONRY, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



1 Overall Ground Floor Reflected Ceiling Plan

A112 1:75

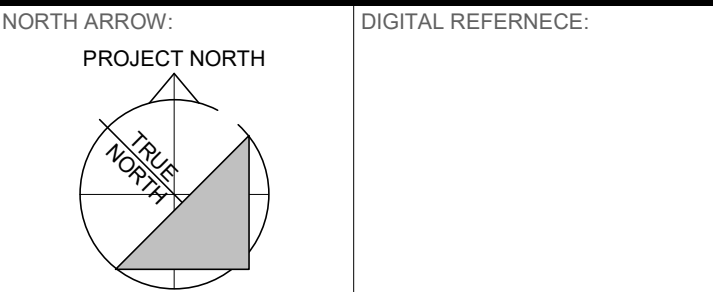


2 Roof Plan

A112 1:75

NORTH GRENVILLE
POOL HOUSE

REFLECTED CEILING
PLAN & ROOF PLAN

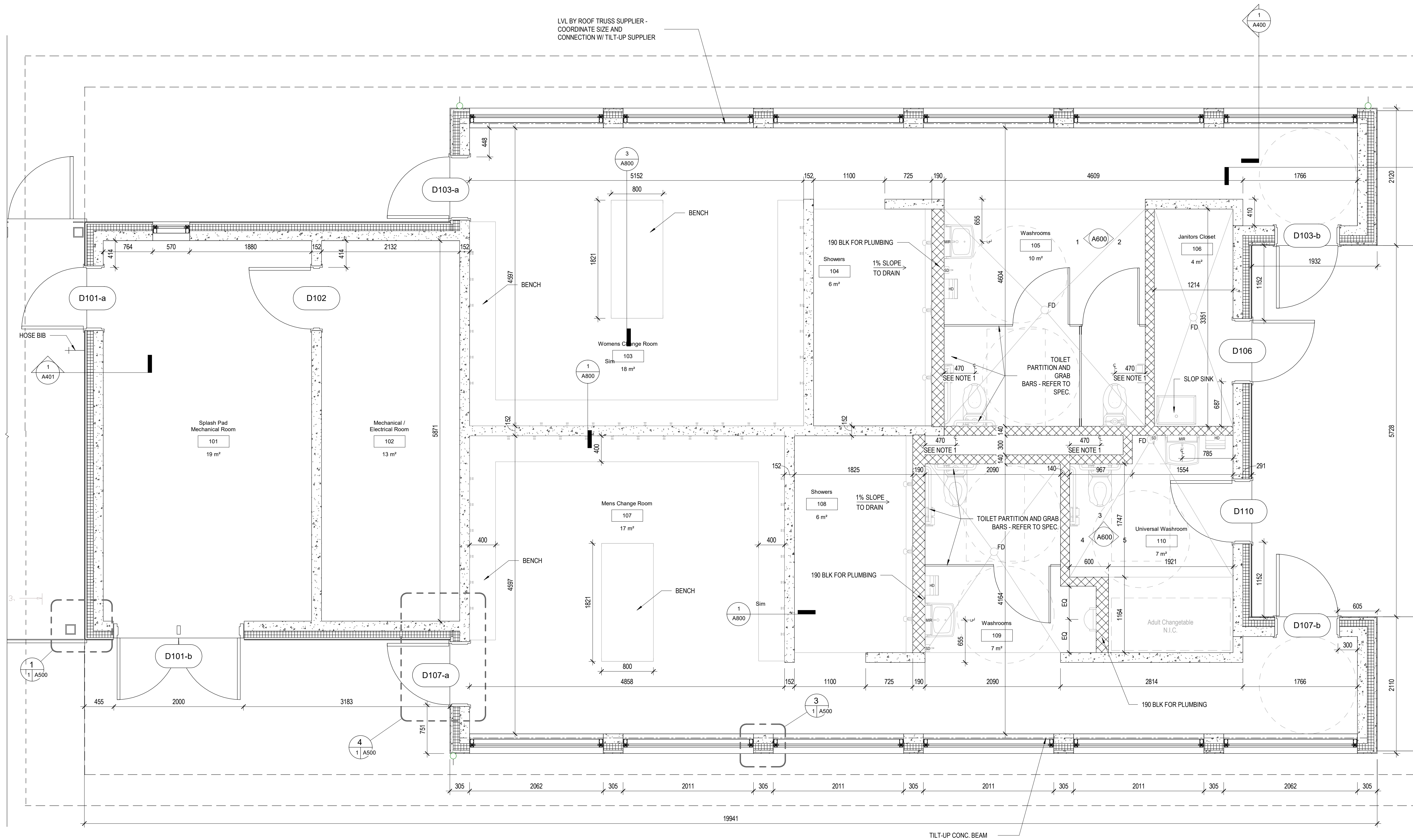


**NORTH GRENVILLE
POOL HOUSE**

**NEW BUILDING
ENLARGED PLAN**

GENERAL NOTES:

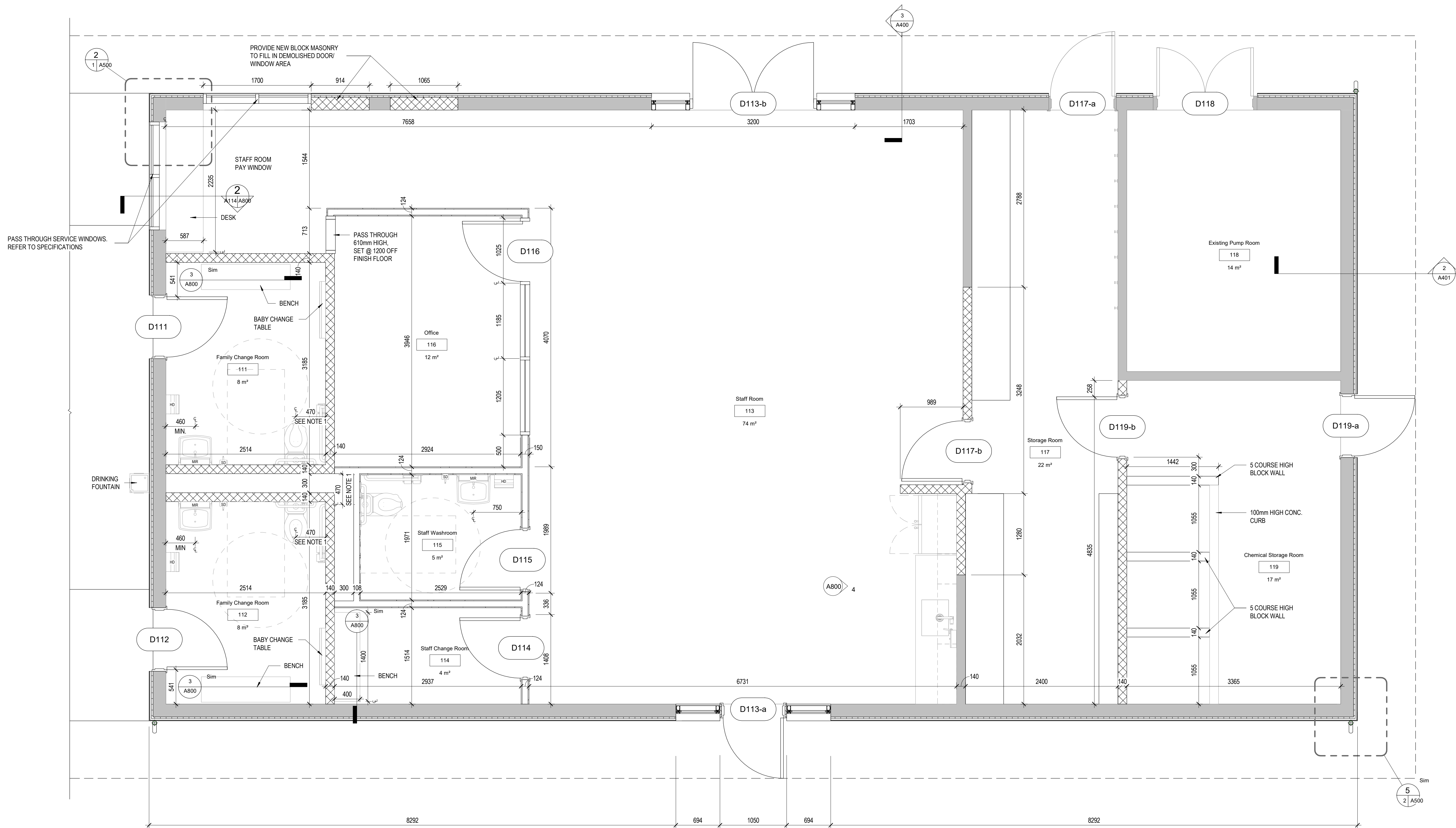
1. FINAL PLACEMENT OF W/C TO BE IN ACCORDANCE WITH OBC 3.8.3.8. SENTENCE (2) (a) (i) BETWEEN 460mm AND 480mm.
2. PROVIDE BULLNOSE EDGE AT ALL EXPOSED MASONRY BLOCK LOCATIONS.
3. COORDINATE WINDOW SIZES WITH TILT-UP SHOP DRAWINGS.



1 New Building Enlarged Plan
A113 1:30

GENERAL NOTES:

1. FINAL PLACEMENT OF W/C TO BE IN ACCORDANCE WITH OBC 3.8.3.8. SENTENCE (2) (a) (i) BTW 460mm AND 480mm.



1 Existing Building Enlarged Plan
A114 1:30

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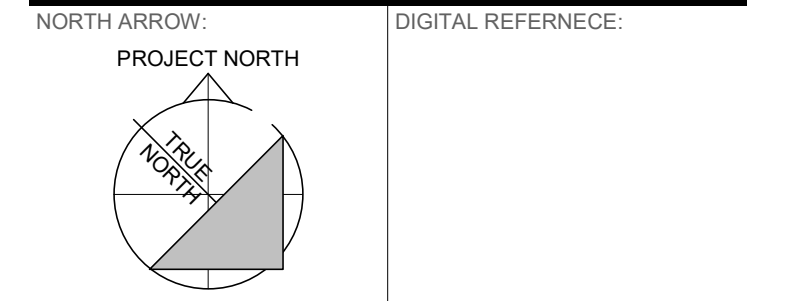
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NO. DATE ISSUED

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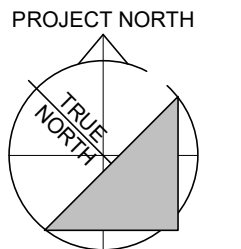
**NORTH GRENVILLE
POOL HOUSE**

DRAWING TITLE

**EXISTING BUILDING
ENLARGED PLAN**

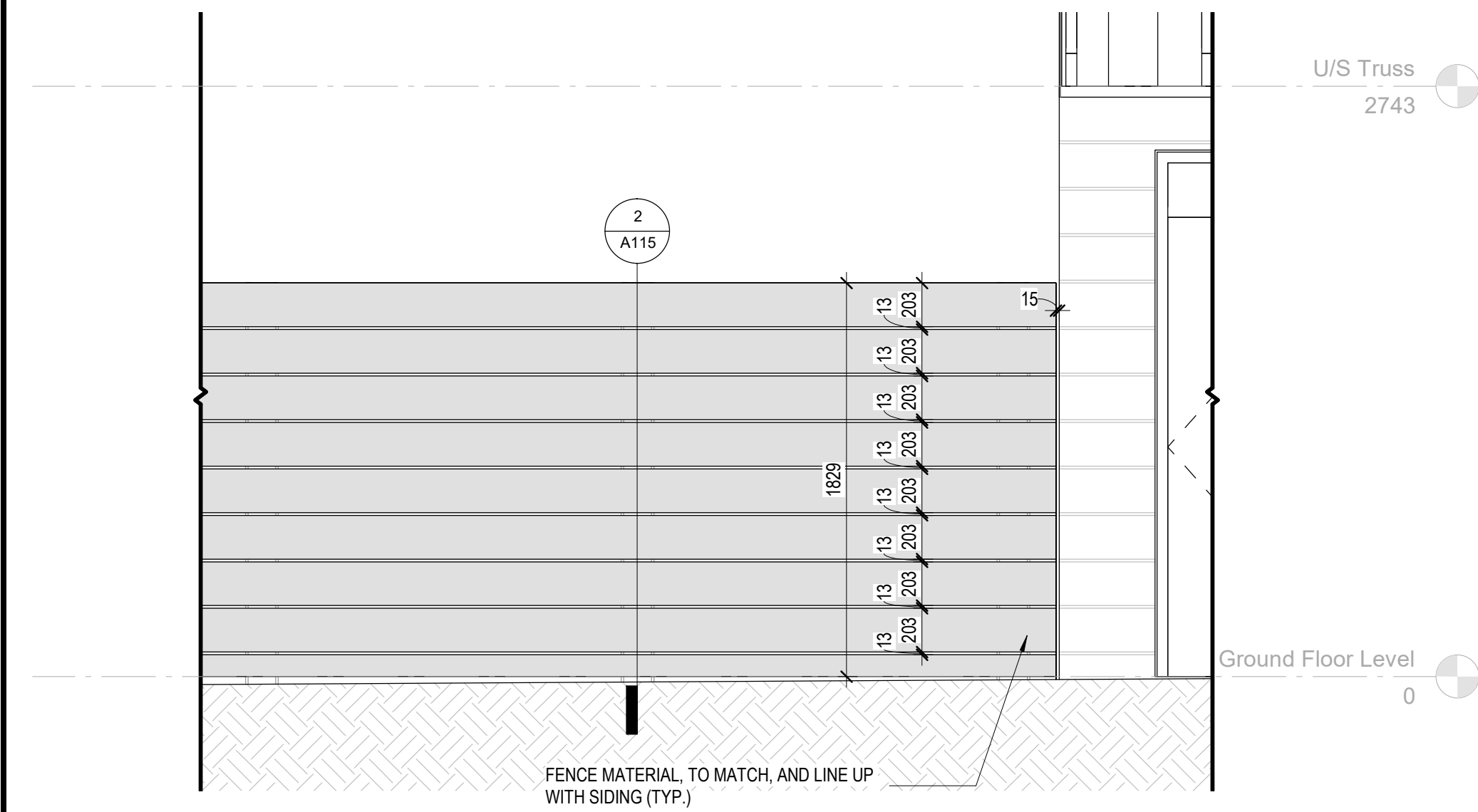
DRAWING NO. **A114**

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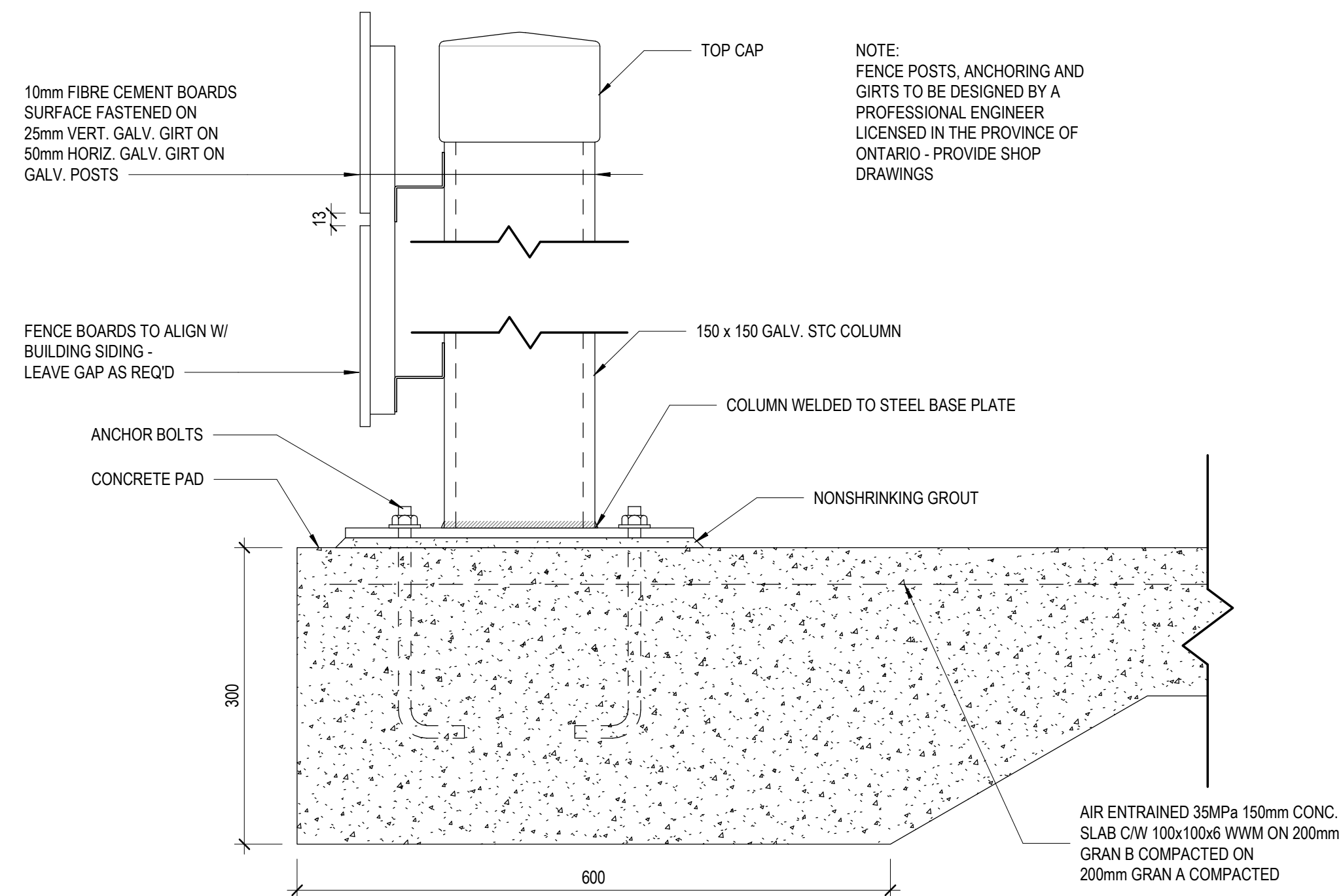
**NORTH GRENVILLE
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**RINK CHILLER PAD
PLAN & FENCE DETAILS**



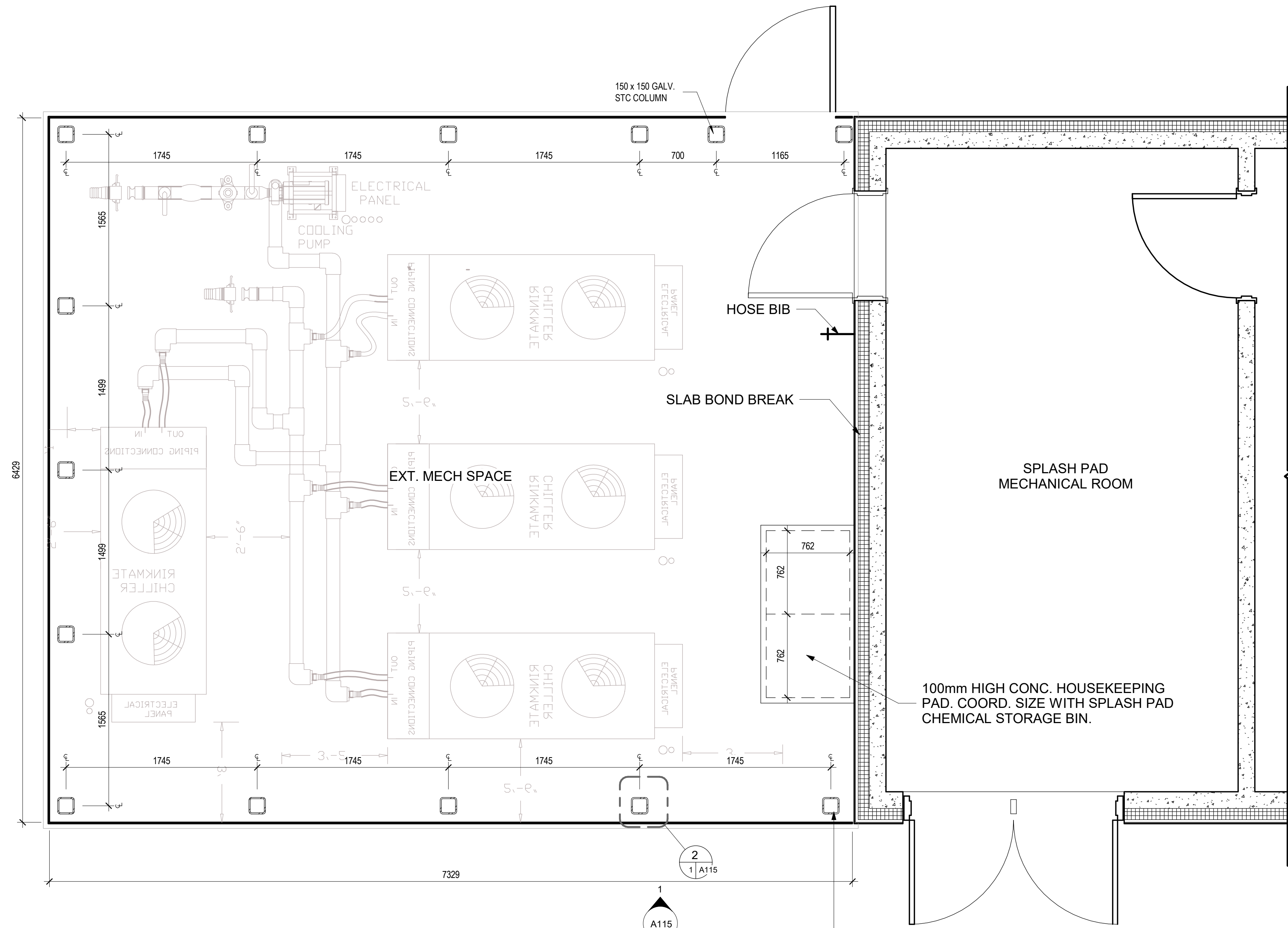
1 Rink Chiller Pad Fence - Typical Elevation

A115 1:25



2 Rink Chiller Pad Fence - Typ. Column Base

A115 1:5



3 Rink Chiller Pad Plan

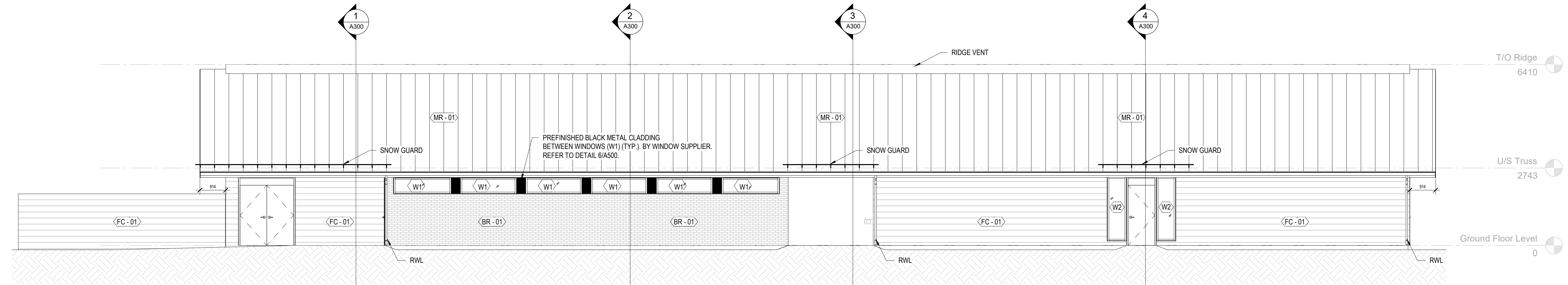
A115 1:25



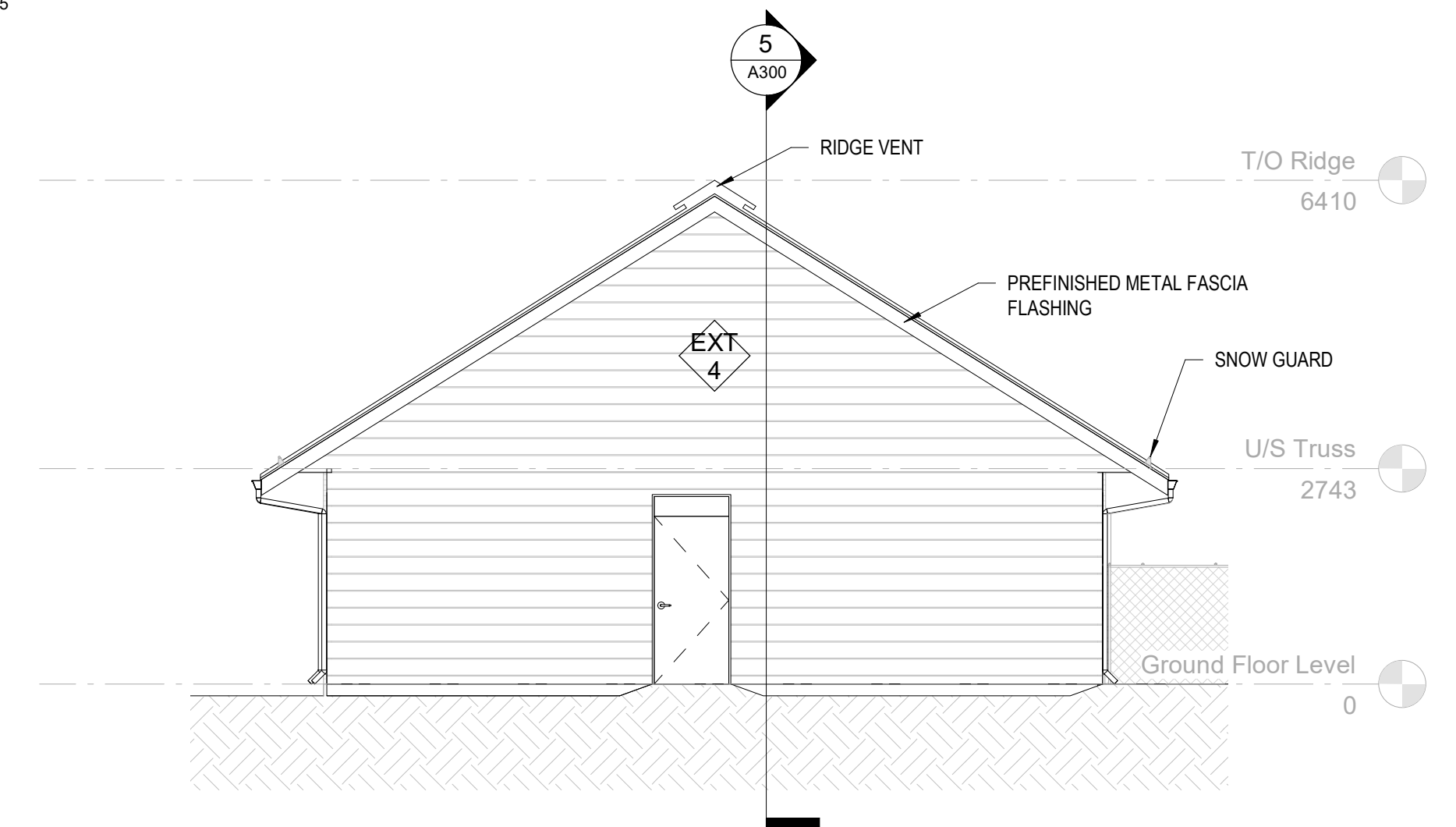
**NORTH GRENVILLE
POOL HOUSE**

ELEVATIONS

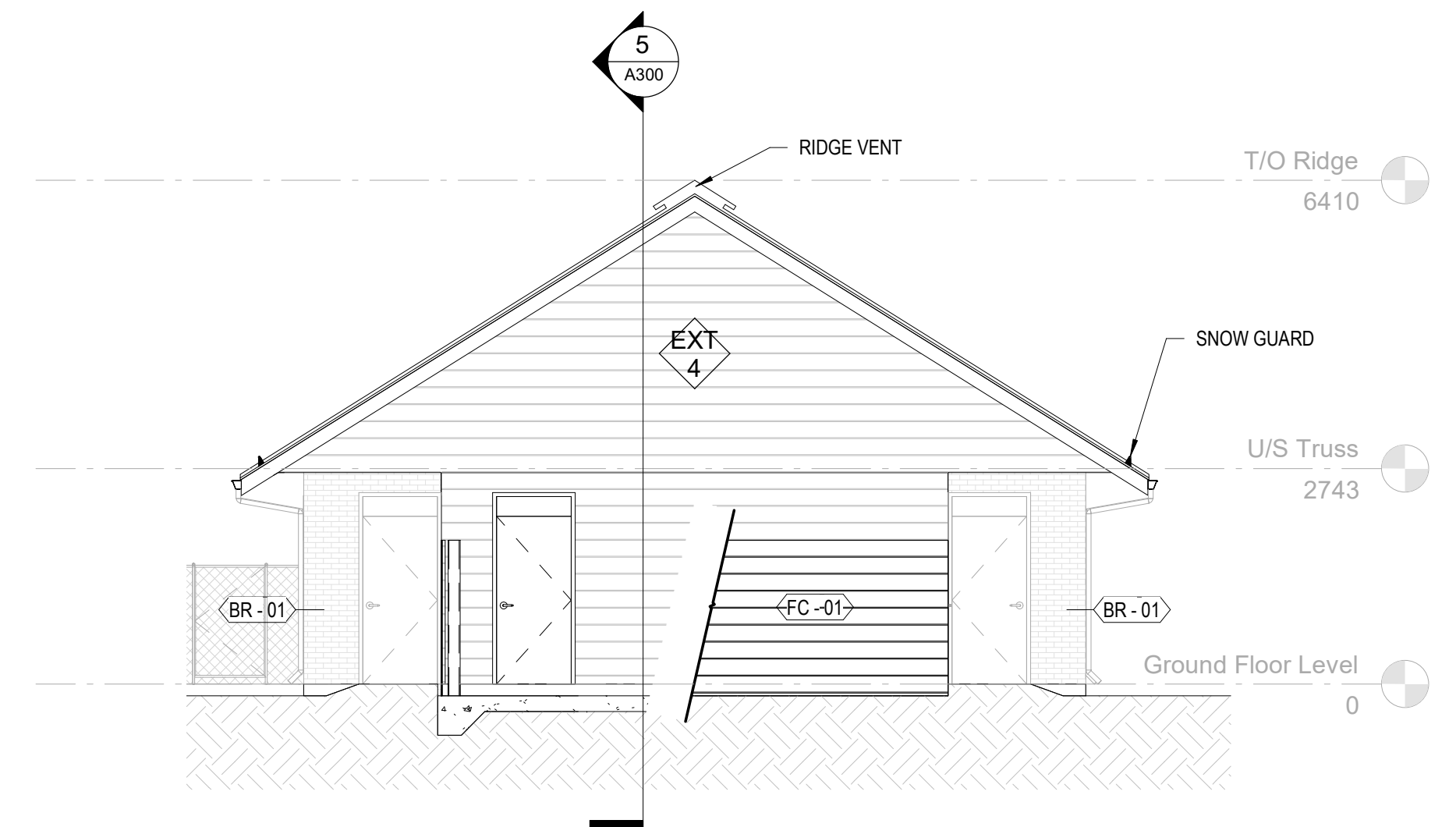
GENERAL NOTES:
1. PROVIDE SNOW GUARD CLAMP AND RAIL SYSTEM BY S-5I, S-5-U CLAMP WITH THE S-5 COLORGARD SNOW GUARD. COLOUR TO MATCH ROOF COLOUR.



1 North
A200 1:75

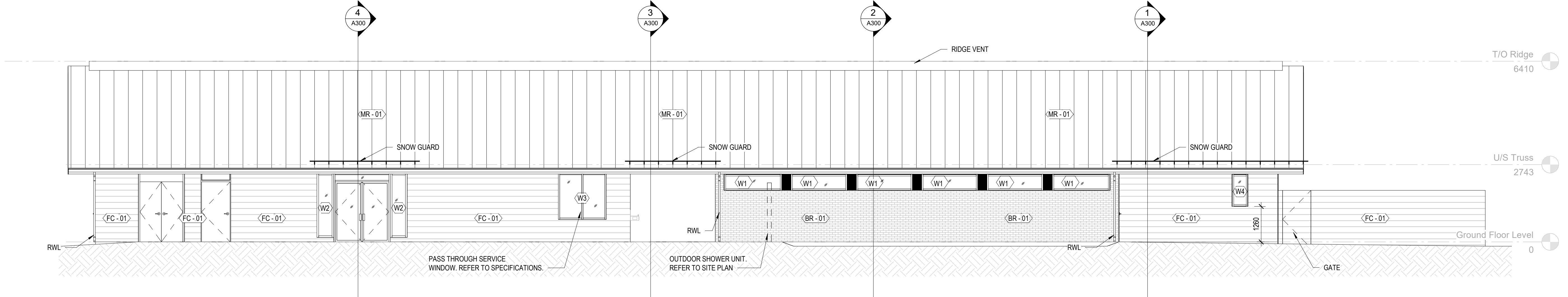


2 West
A200 1:75



3 East
A200 1:75

- MATERIALS LEGEND:**
- BR-01 THIN BRICK VENEER - RED
 - FC-01 FIBRE CEMENT CLADDING - BLACK
 - MR-01 METAL ROOF - BLACK

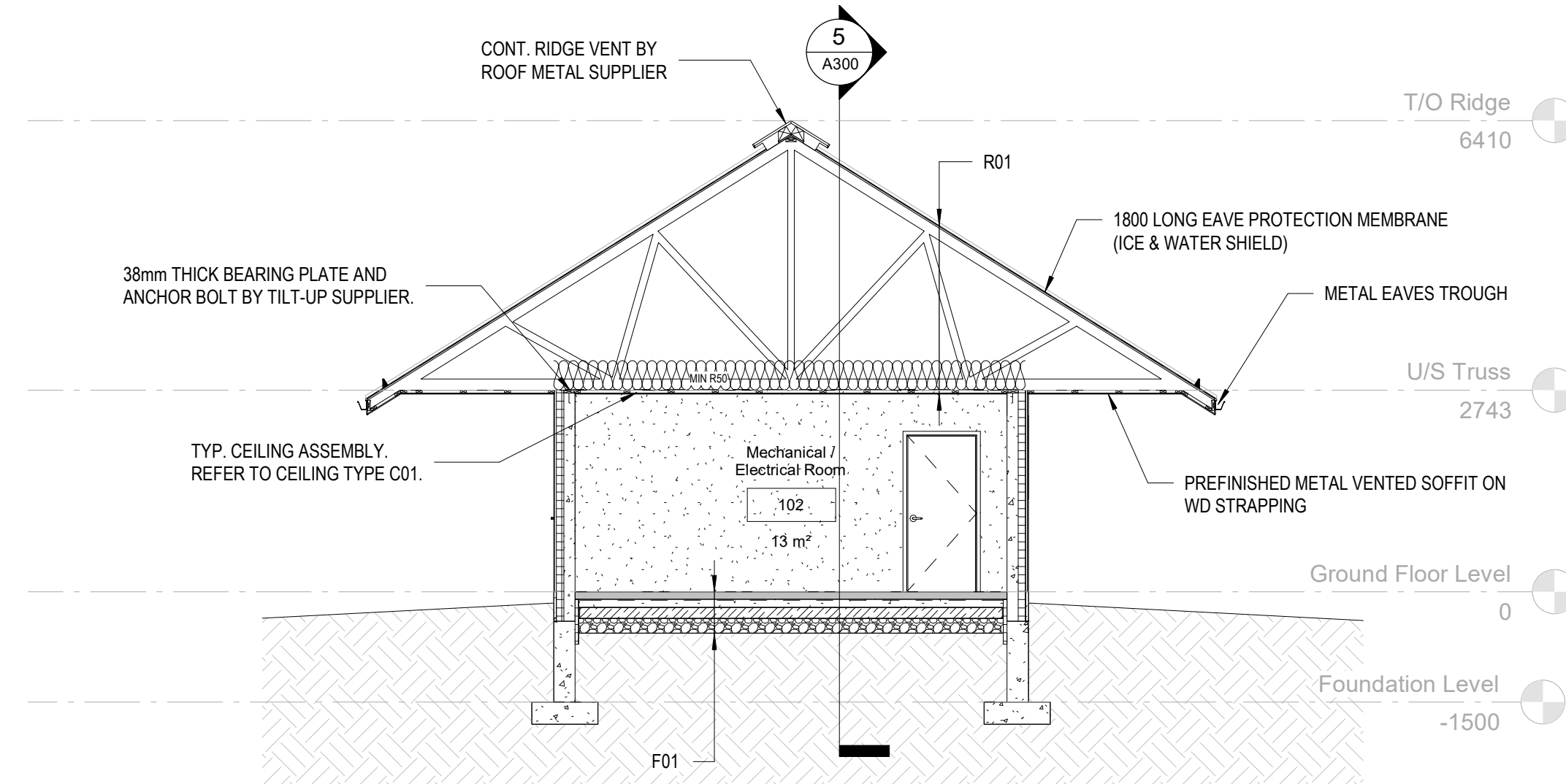


4 South
A200 1:75

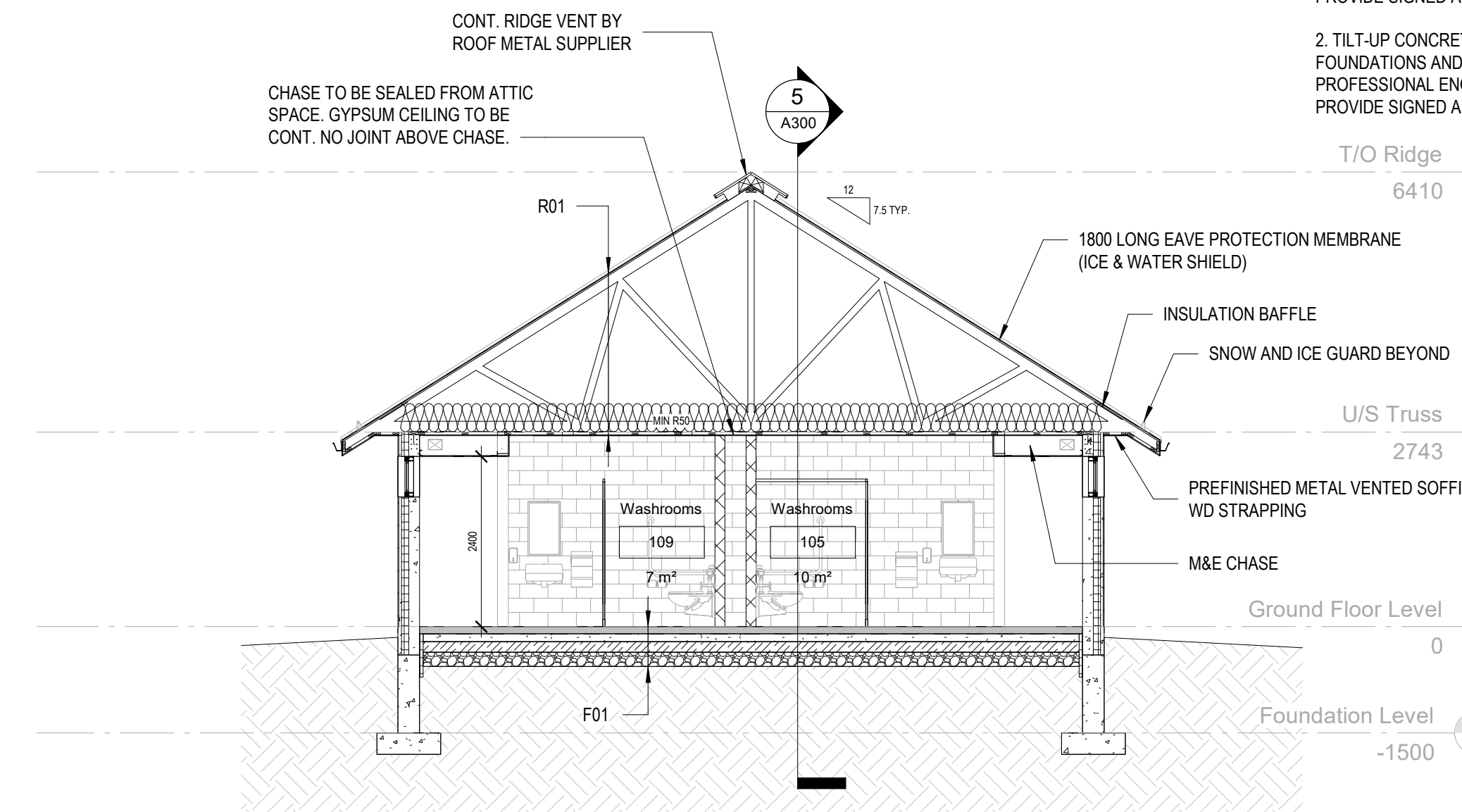


GENERAL NOTES:

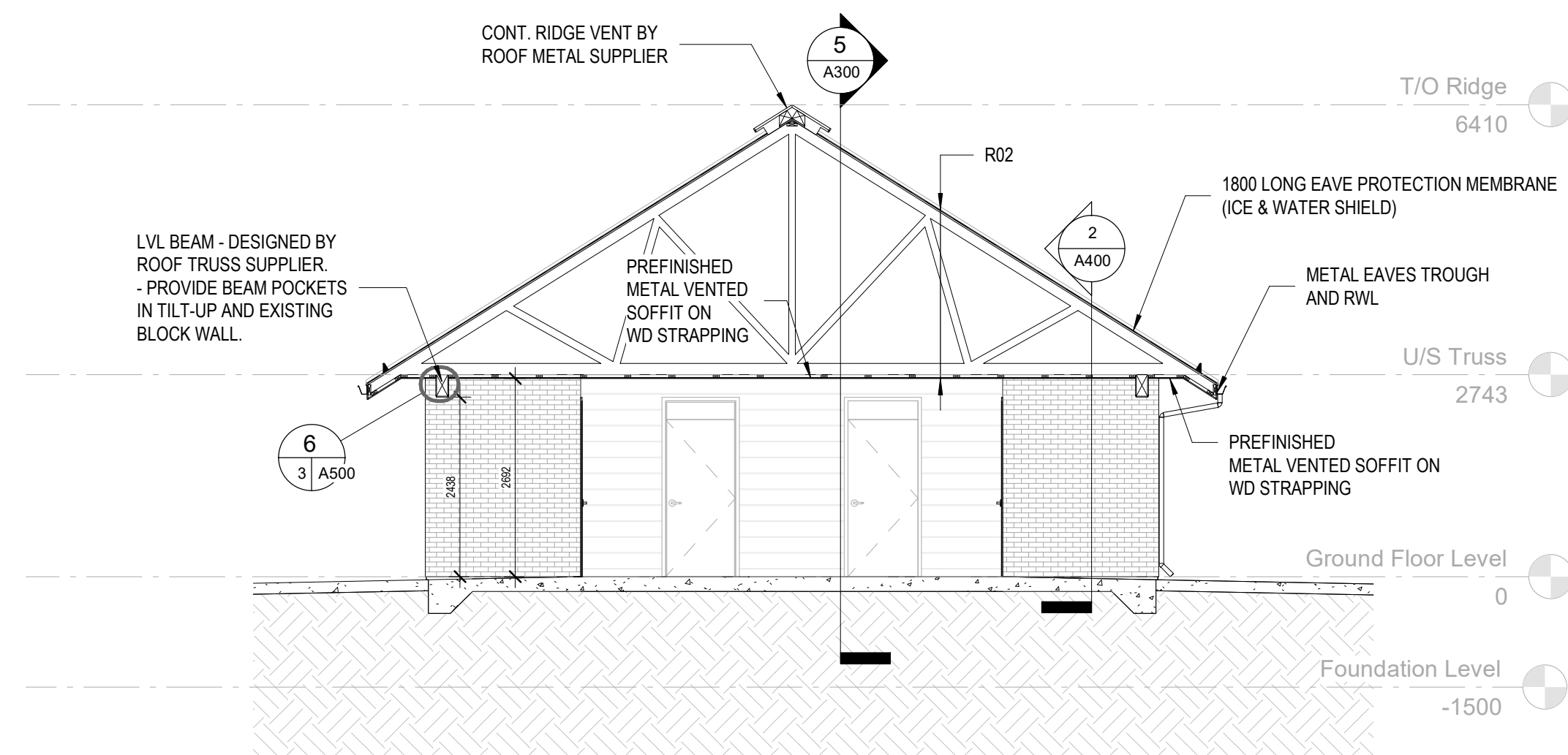
1. WOOD TRUSSES AND ALL CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO. PROVIDE SIGNED AND SEALED SHOP DRAWINGS.
2. TILT-UP CONCRETE WALL SUPPLIER TO ENGINEER/ DESIGN WALLS. FOUNDATIONS AND FOOTINGS. DESIGN SHALL BE BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO. PROVIDE SIGNED AND SEALED SHOP DRAWINGS.



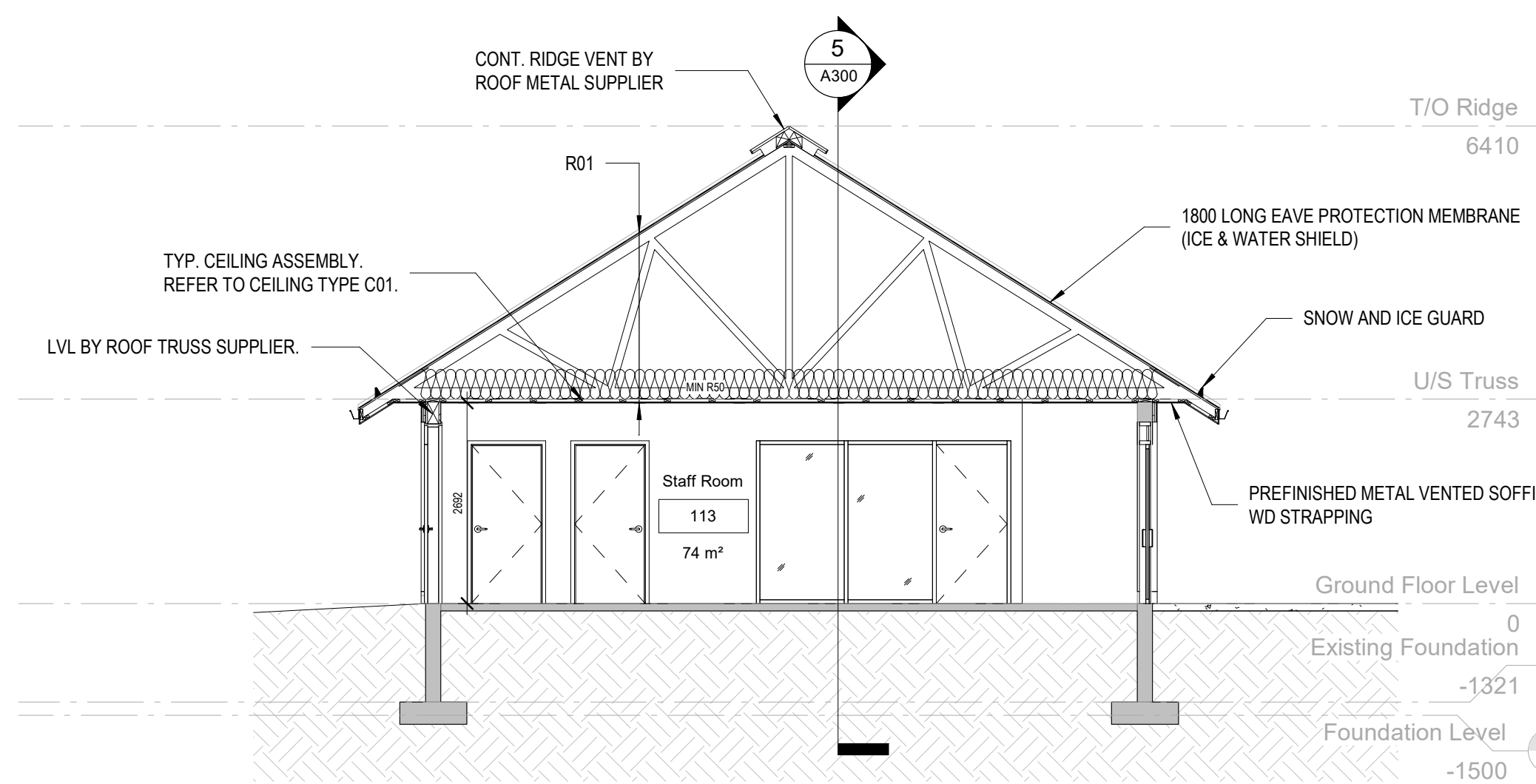
1 Building Section 1
A300 1:75



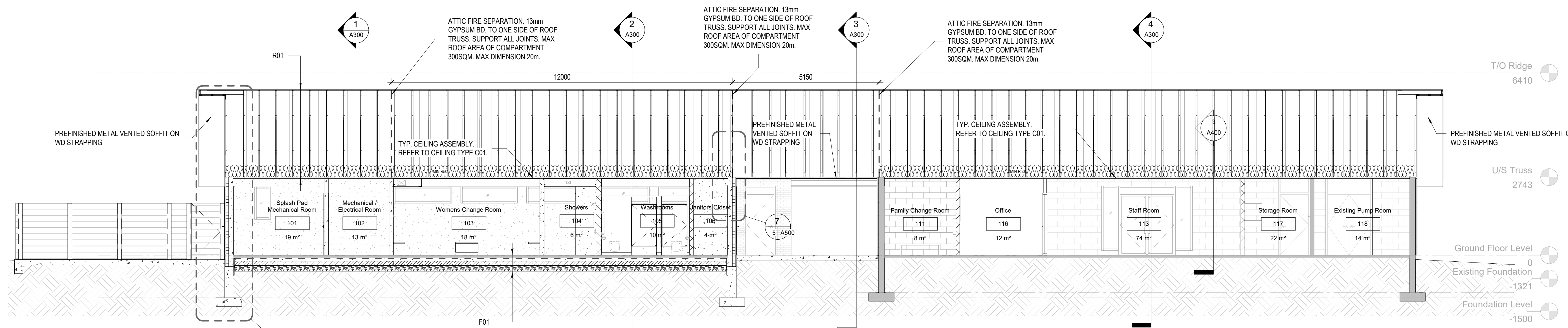
2 Building Section 2
A300 1:75



3 Building Section 3
A300 1:75



4 Building Section 4
A300 1:75



5 Building Section 5
A300 1:75

CONSULTANT



1224 GARDINERS ROAD, SUITE 201, KINGSTON, ON,
CANADA K7P 0G2 | Phone: 613-634-7373 | www.wsp.com

CLIENT



MUNICIPALITY OF NORTH GRENVILLE

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SEAL:

THIS BAR IS 25mm LONG WHEN PLOTTED AT
CORRECT SCALE. DO NOT SCALE DRAWINGS. 25mm

NORTH ARROW: DIGITAL REFERENCE:

PROJECT NO.: 218-00153-00 CONTRACT NO.
DRAWN BY: S.D. CHECKED BY: W.P. APPROVED BY: W.P.
KEYPLAN:

1 2022-06-17 ISSUED FOR TENDER
NO. DATE ISSUED
PROJECT

**NORTH GRENVILLE
POOL HOUSE**

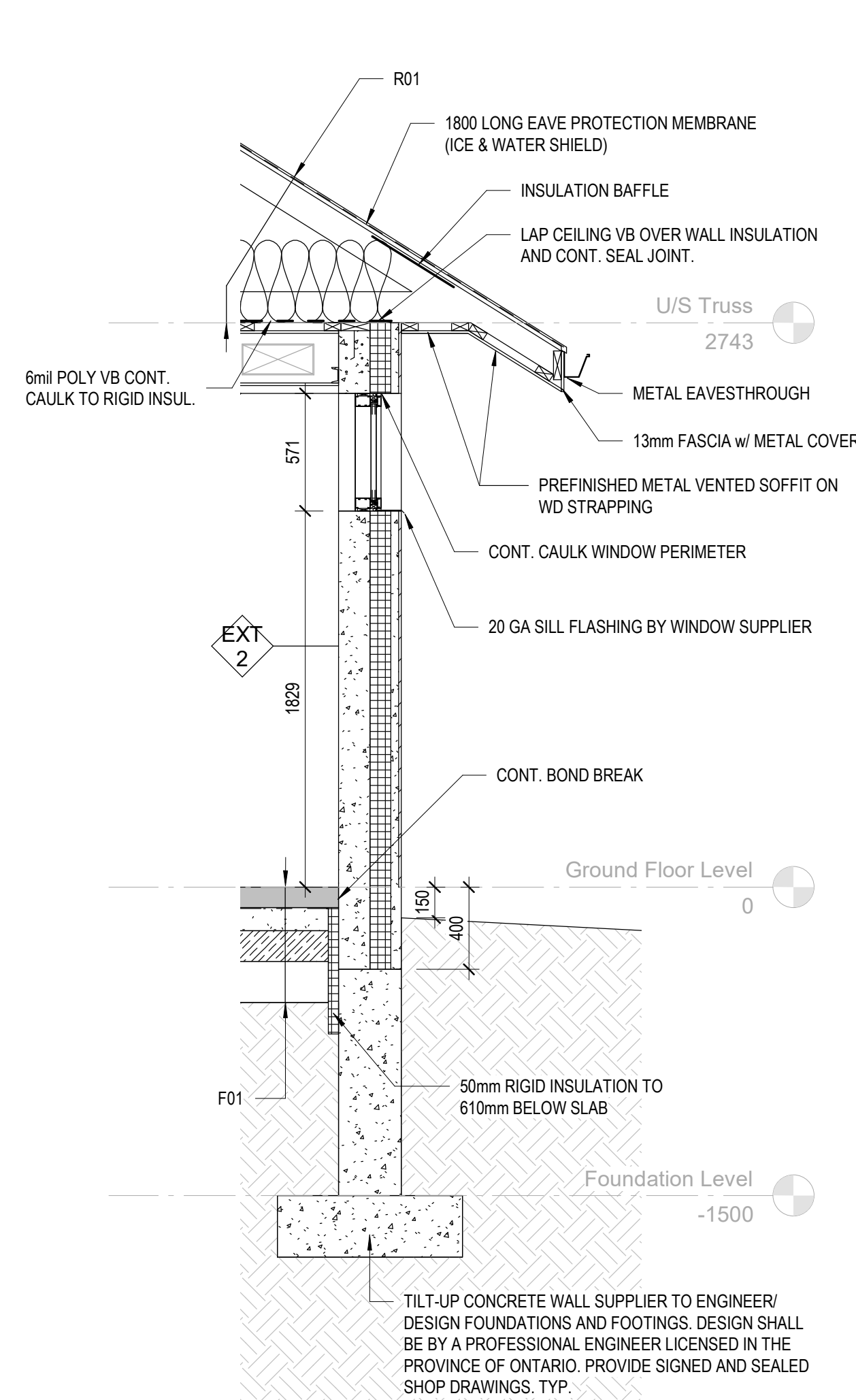
DRAWING TITLE

WALL SECTIONS

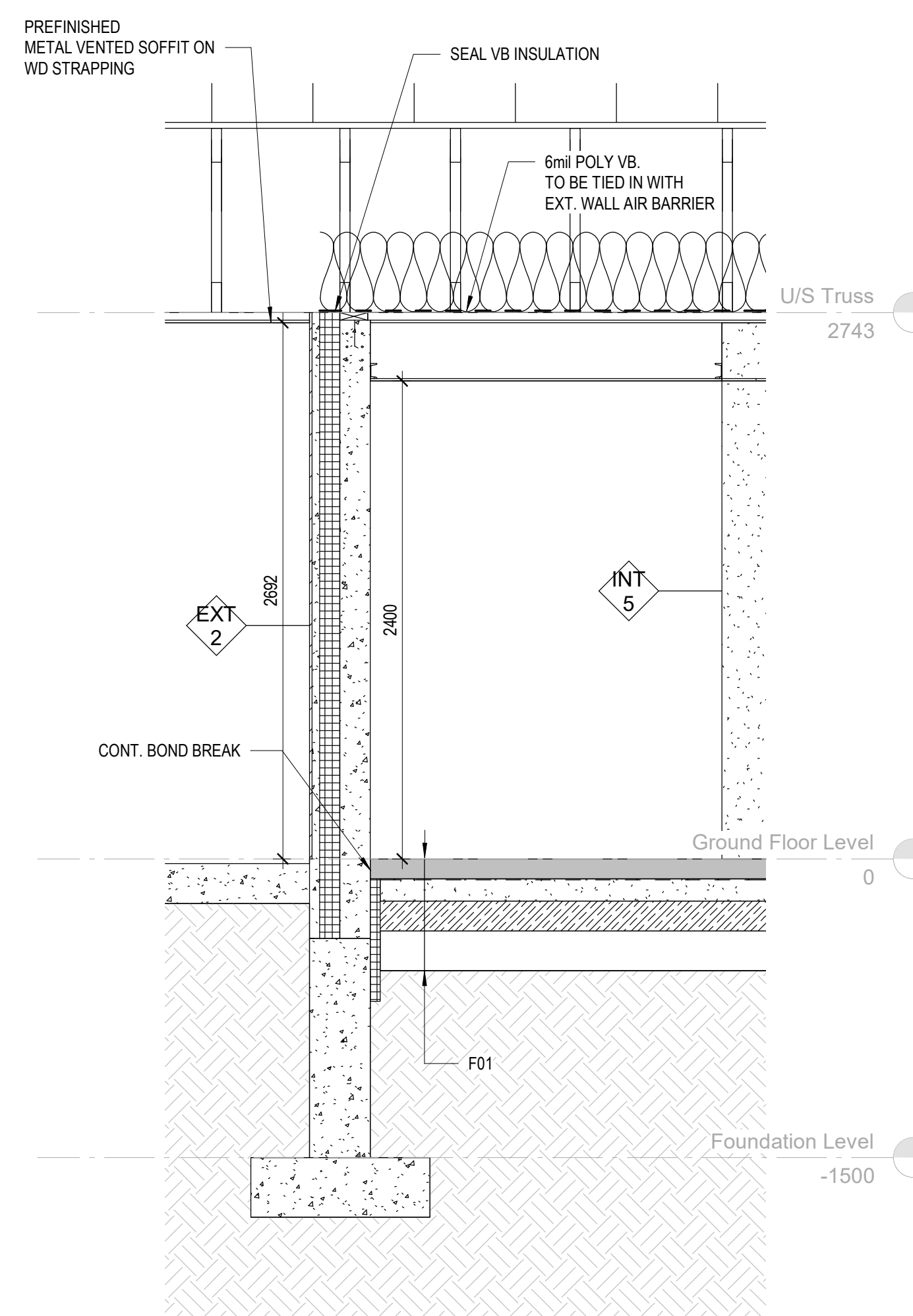
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A400

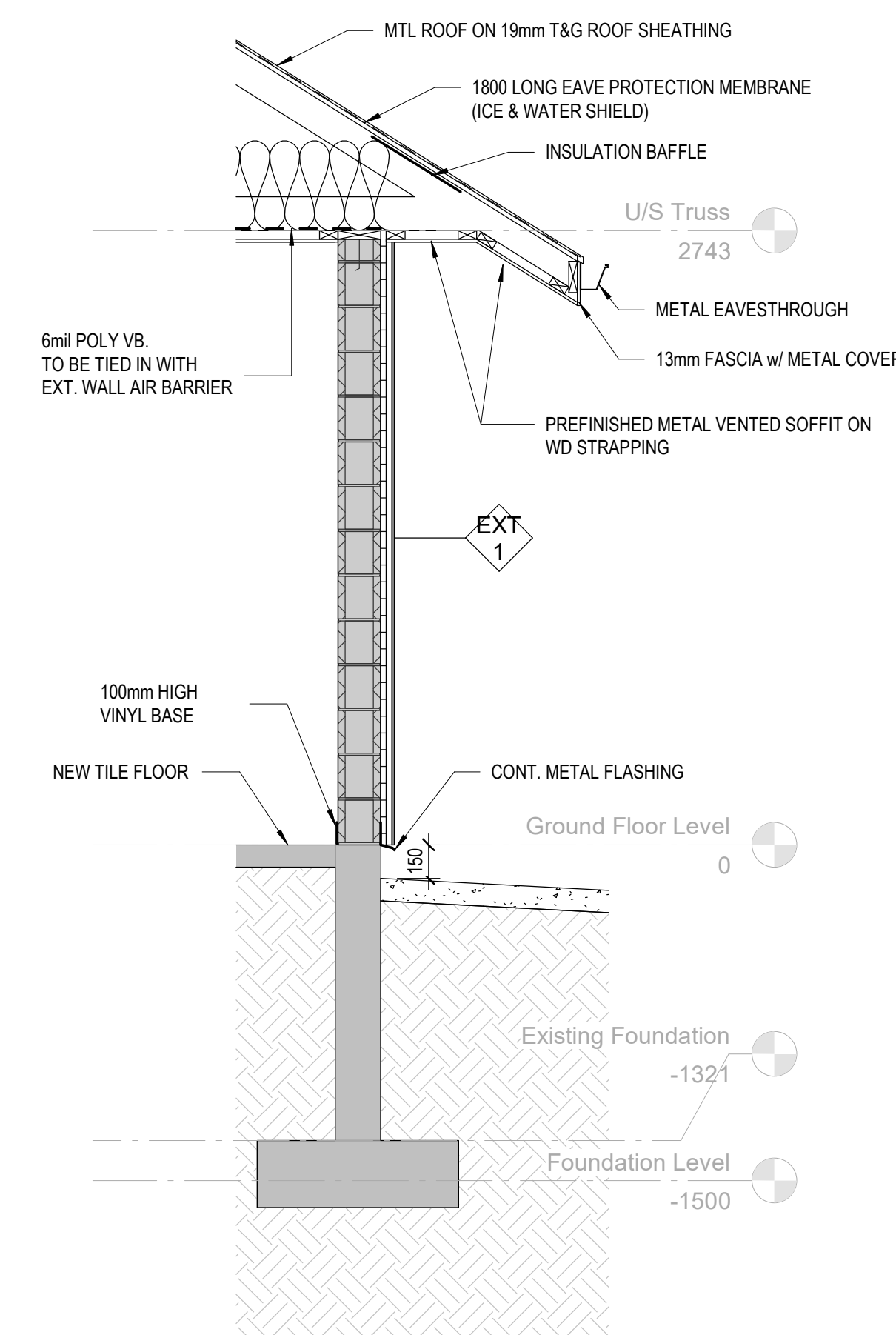
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1 Wall Section 1
A400 1:25



2 Wall Section 2
A400 1:25

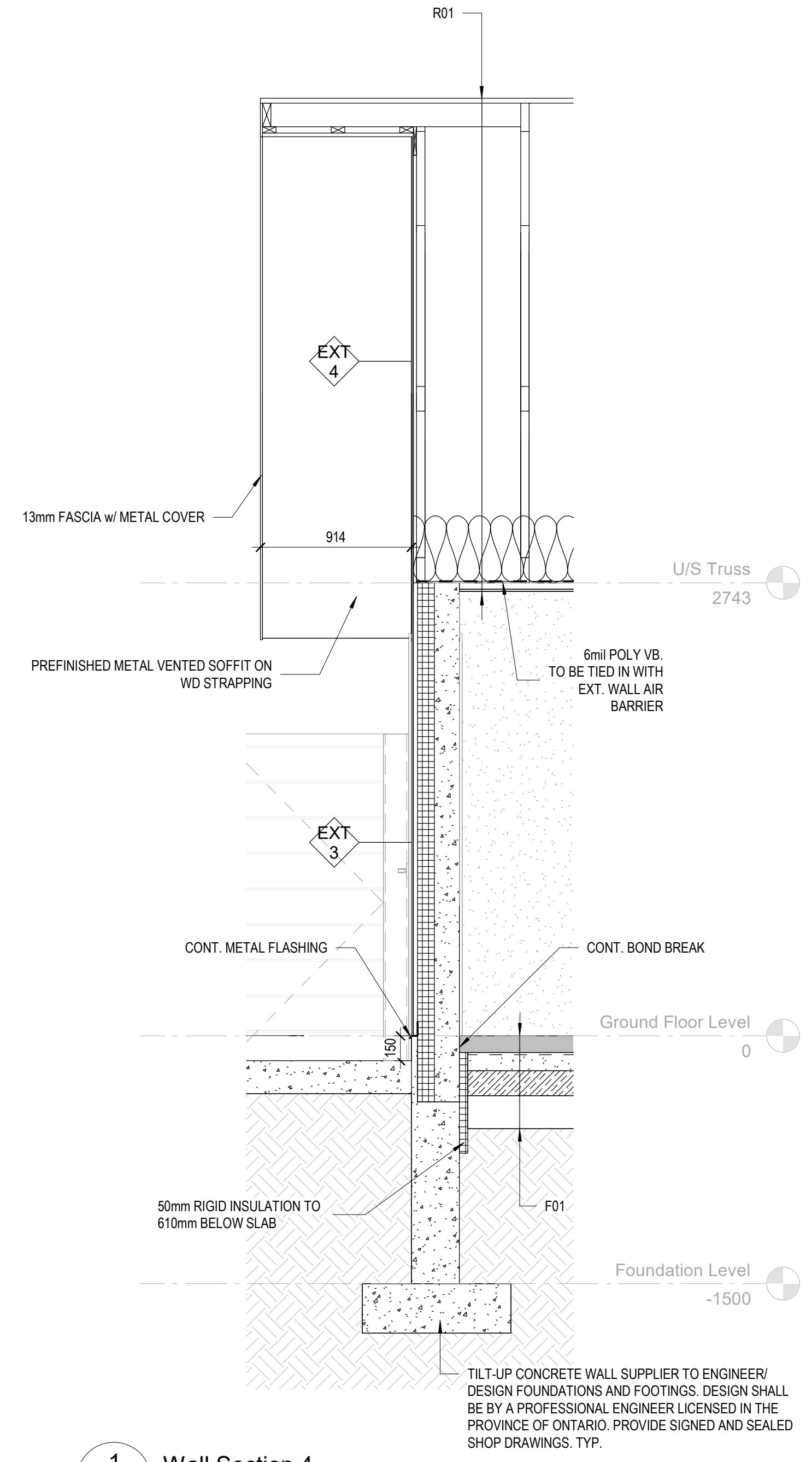


3 Wall Section 3
A400 1:25

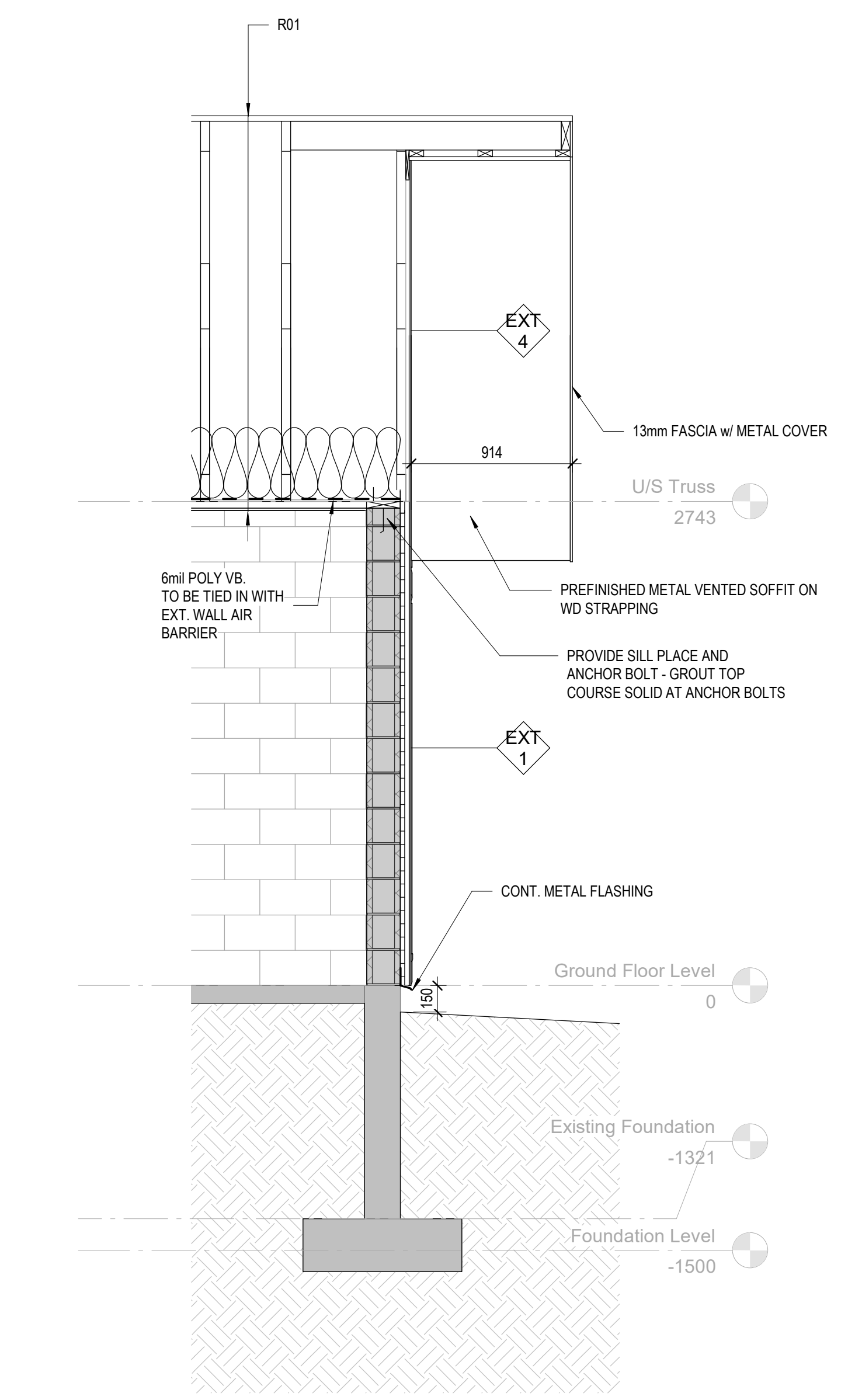
NORTH GRENVILLE POOL HOUSE

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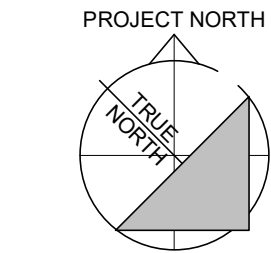
WALL SECTIONS



1 Wall Section 4
A401 1:25

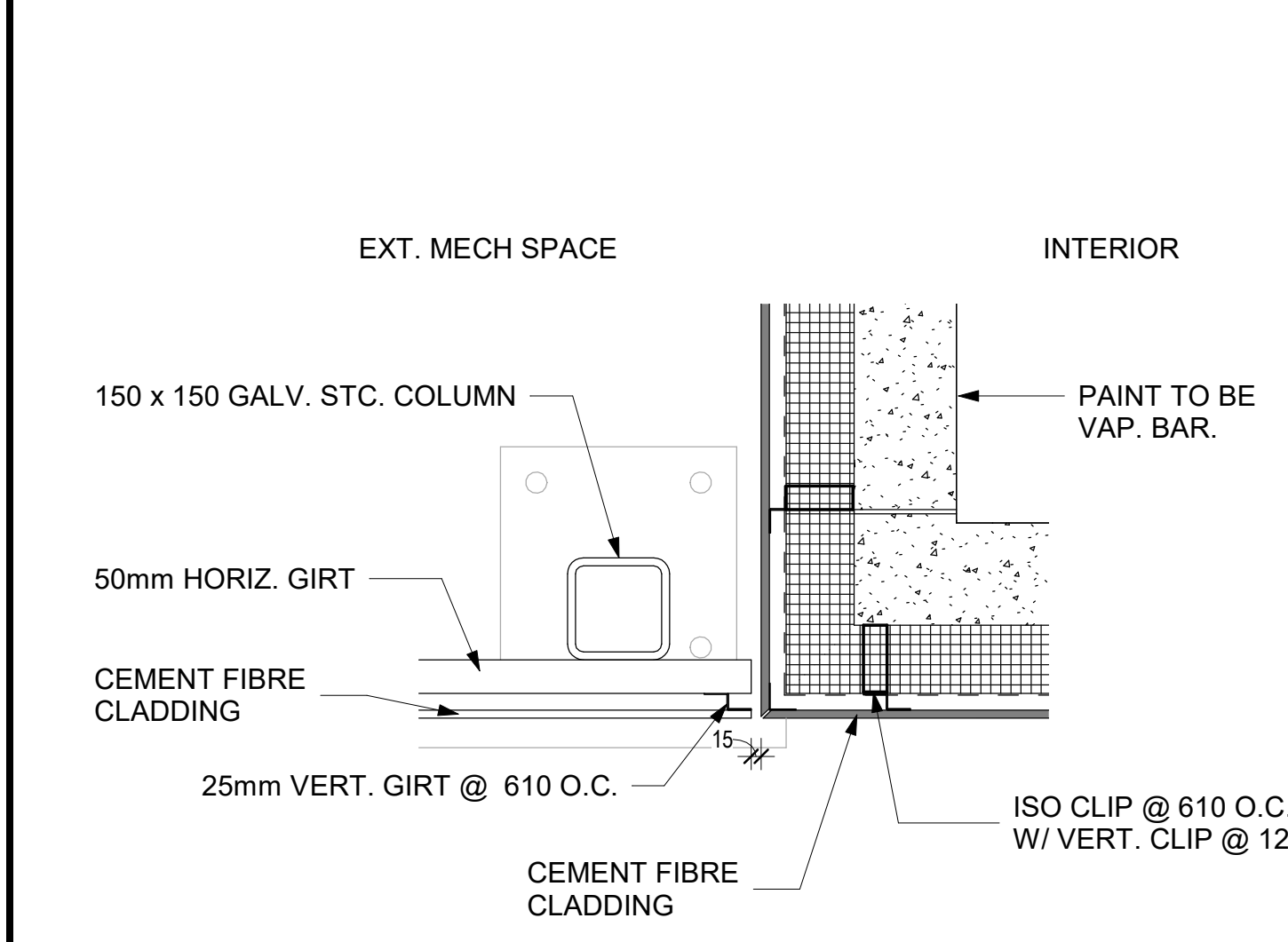


2 Wall Section 5
A401 1:25

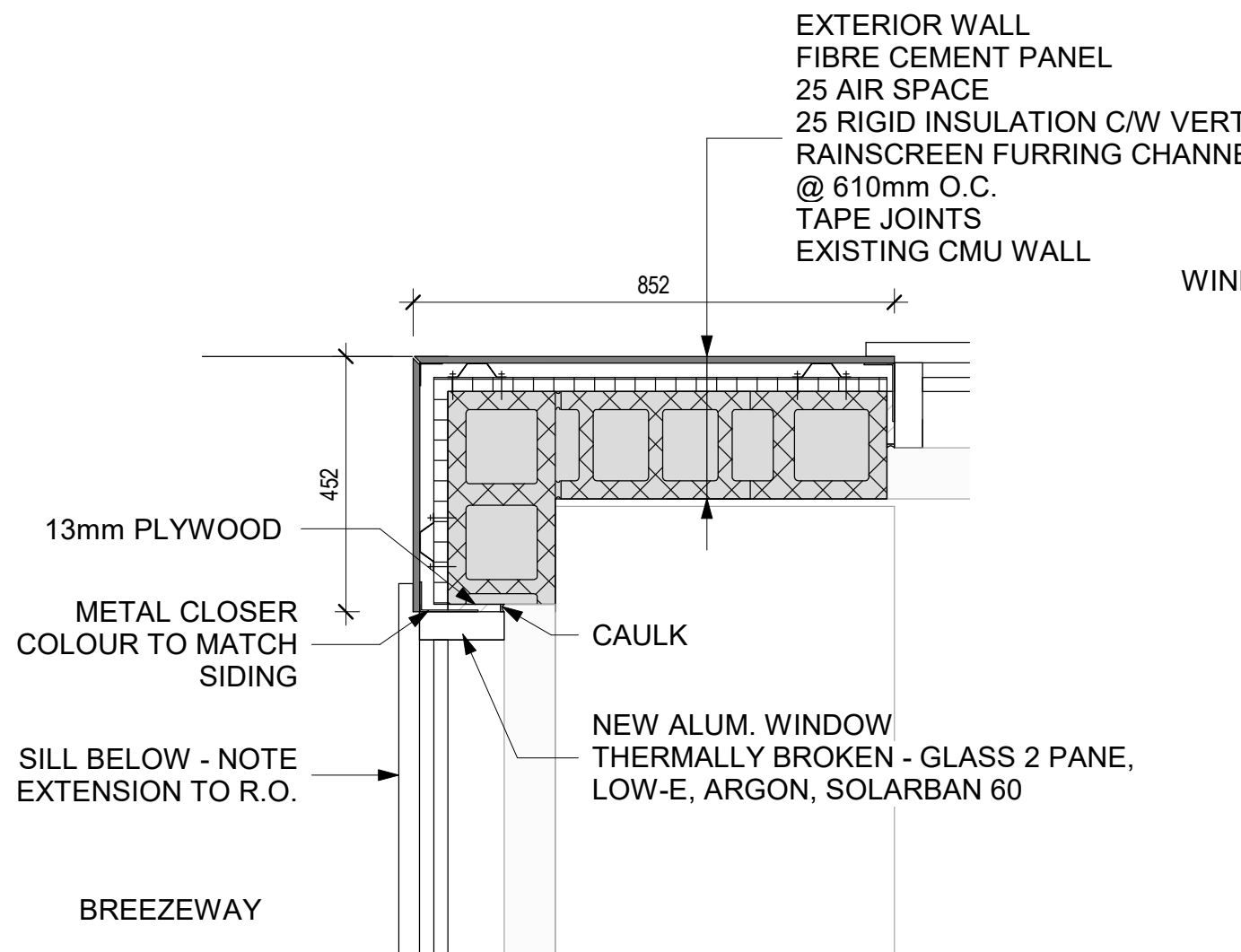


**NORTH GRENVILLE
POOL HOUSE**

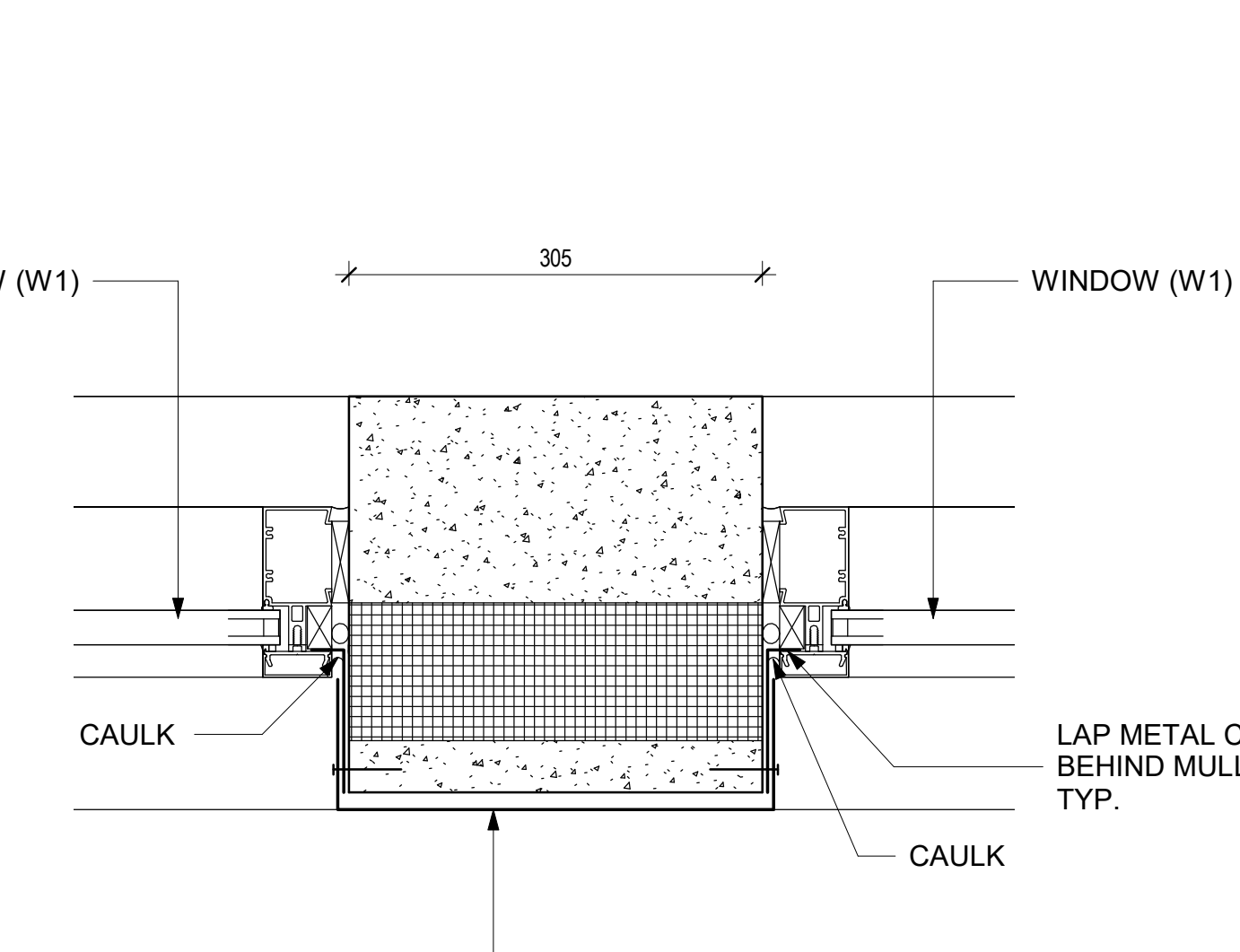
**PLAN & SECTION
DETAILS**



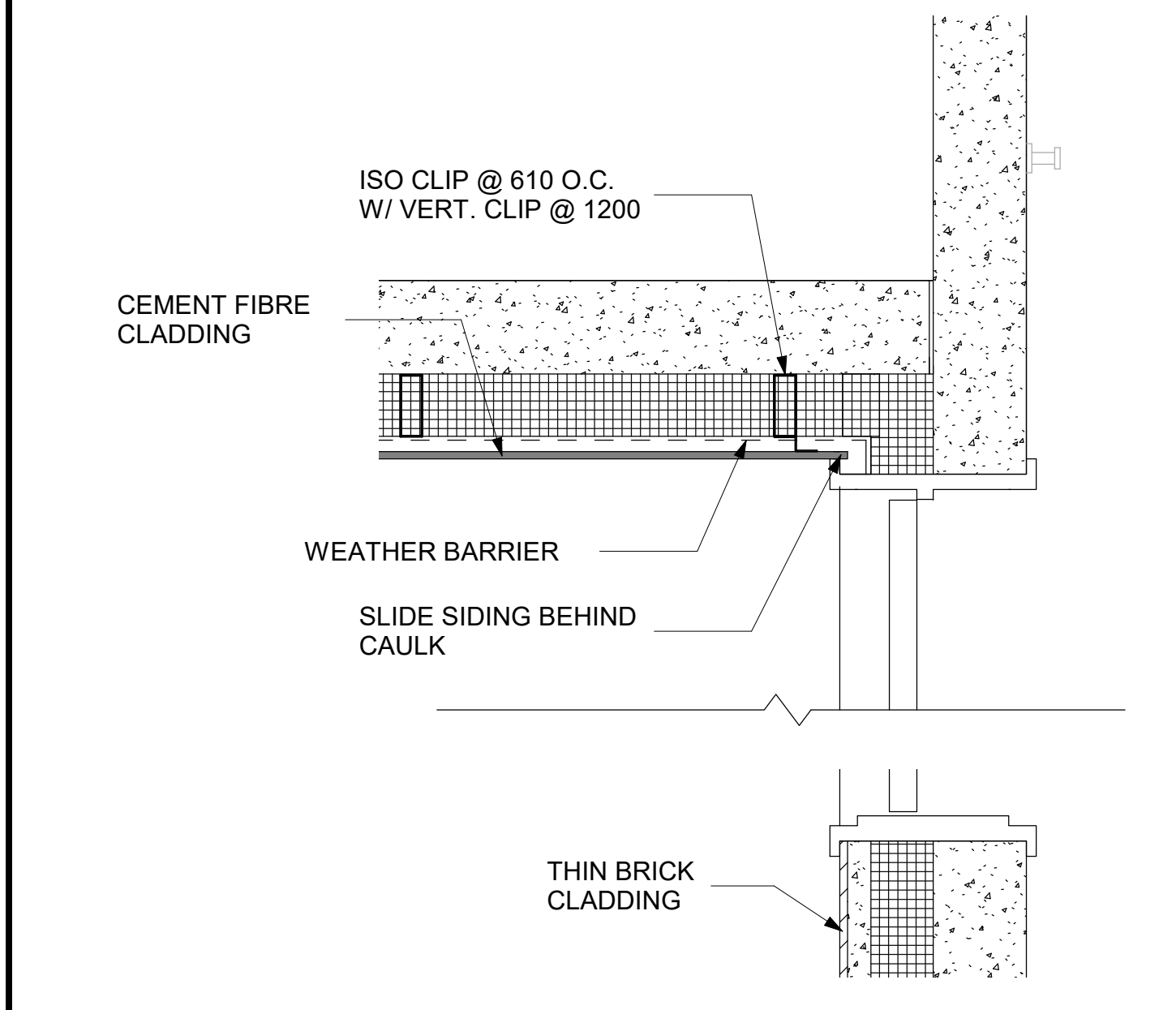
1 Plan Detail @ S.E. Corner - New Building
A500 1:10



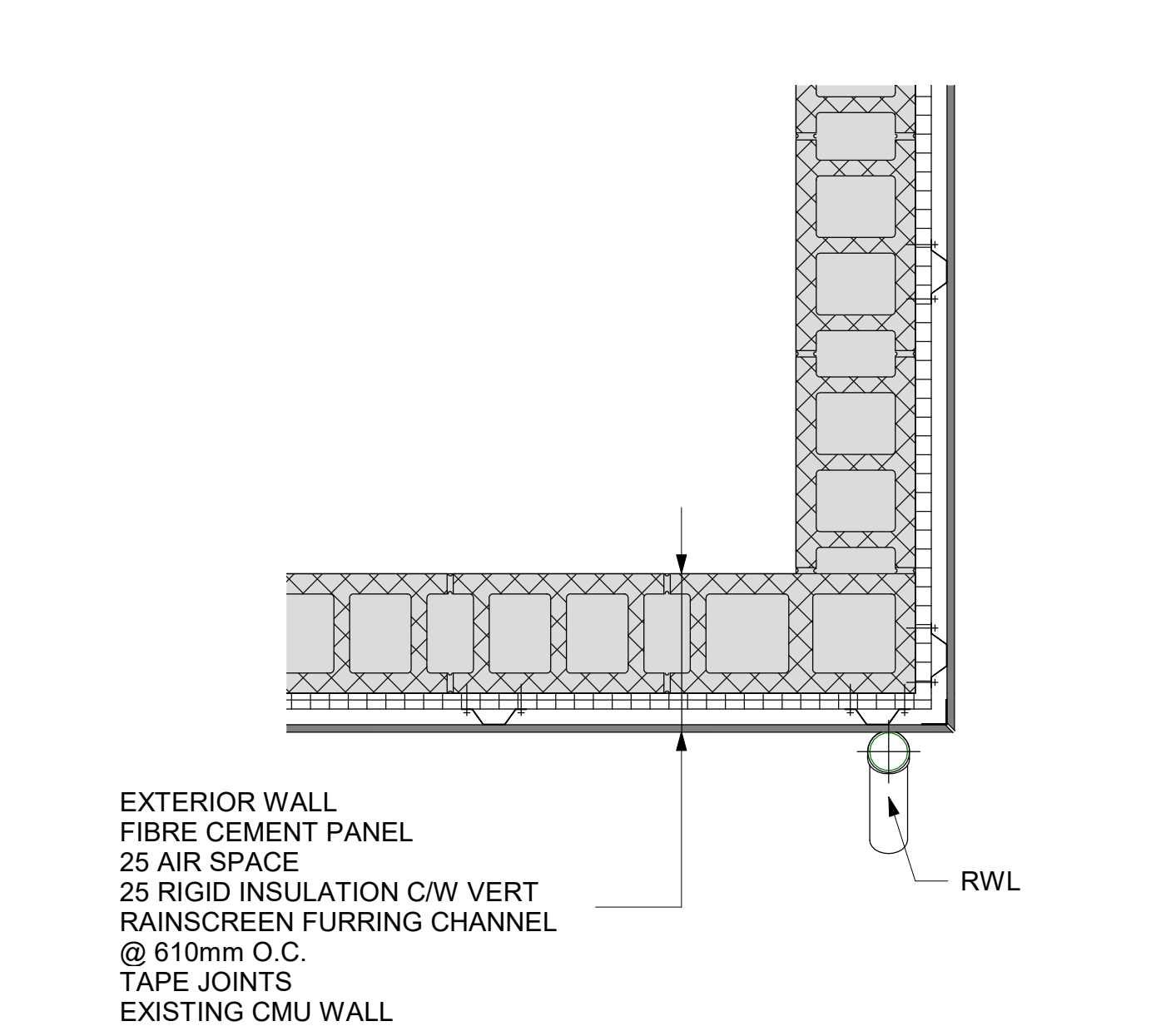
2 Plan Detail @ S. Corner - Existing Building
A500 1:12



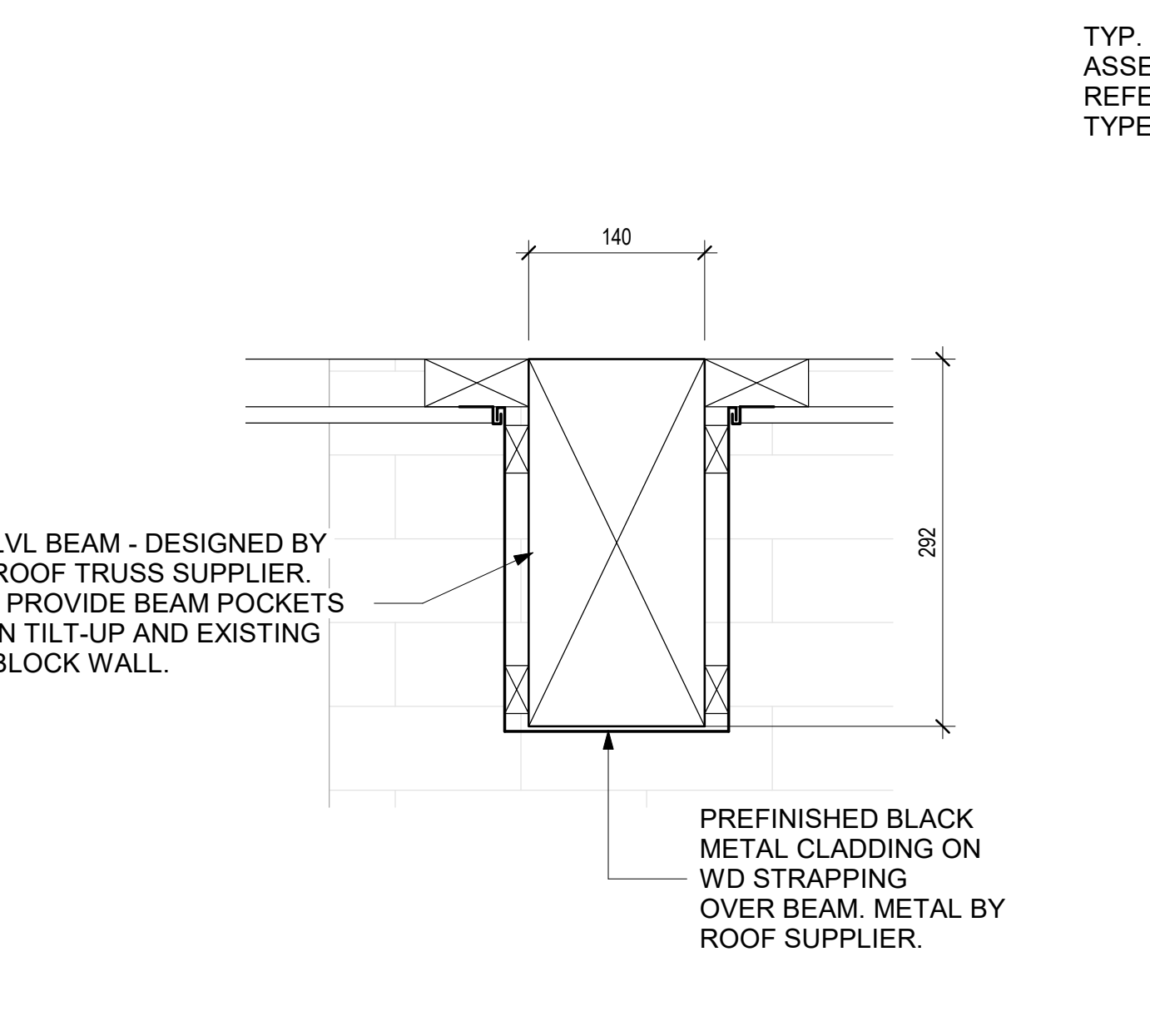
3 Plan Detail @ Change Room Window - New Building Typ.
A500 1:5



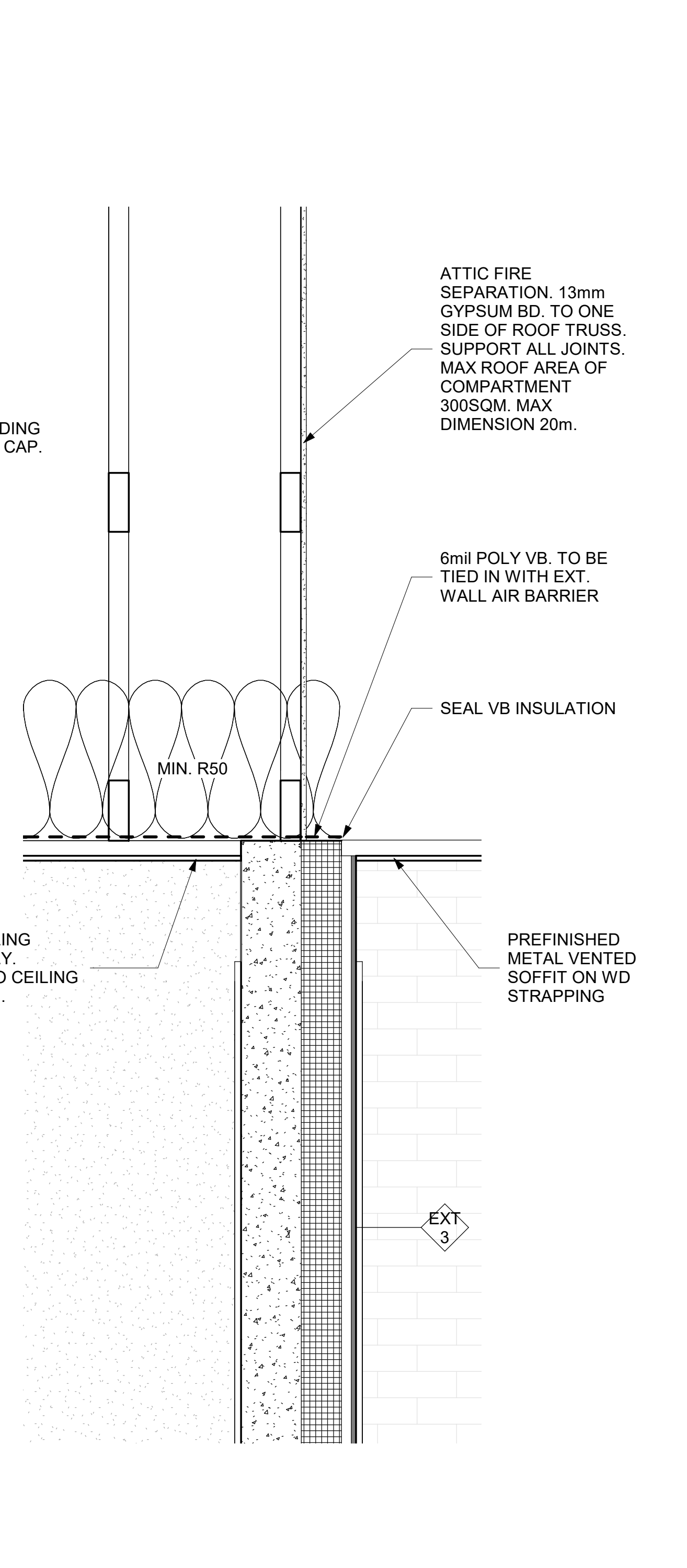
4 Plan Detail @ S.E. Exit - New Building
A500 1:10



5 Plan Detail @ N. Corner - Existing Building
A500 1:10



6 Section Detail @ Breezeway
A500 1:5

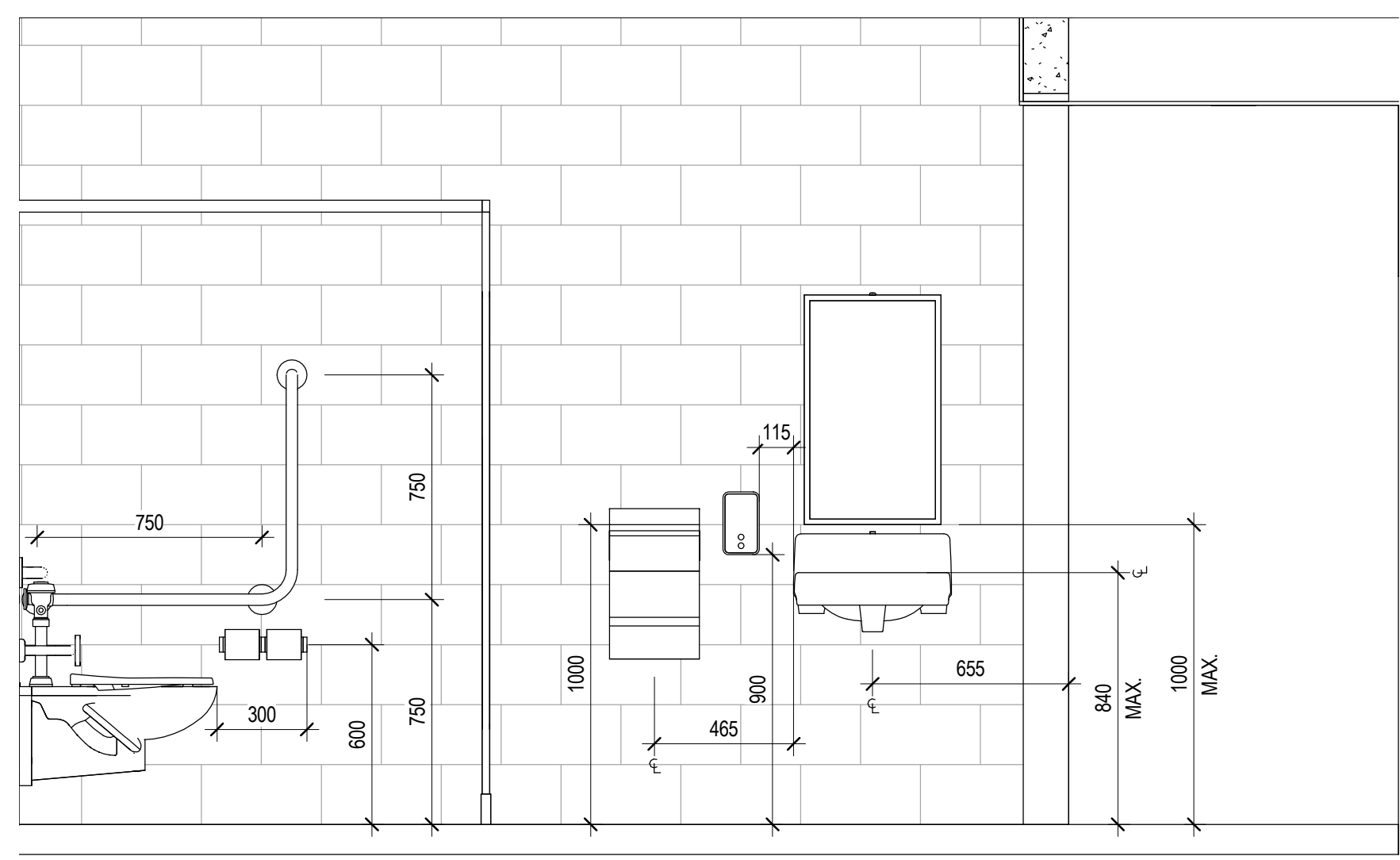


7 Section Detail @ Tilt-up & Roof
A500 1:10

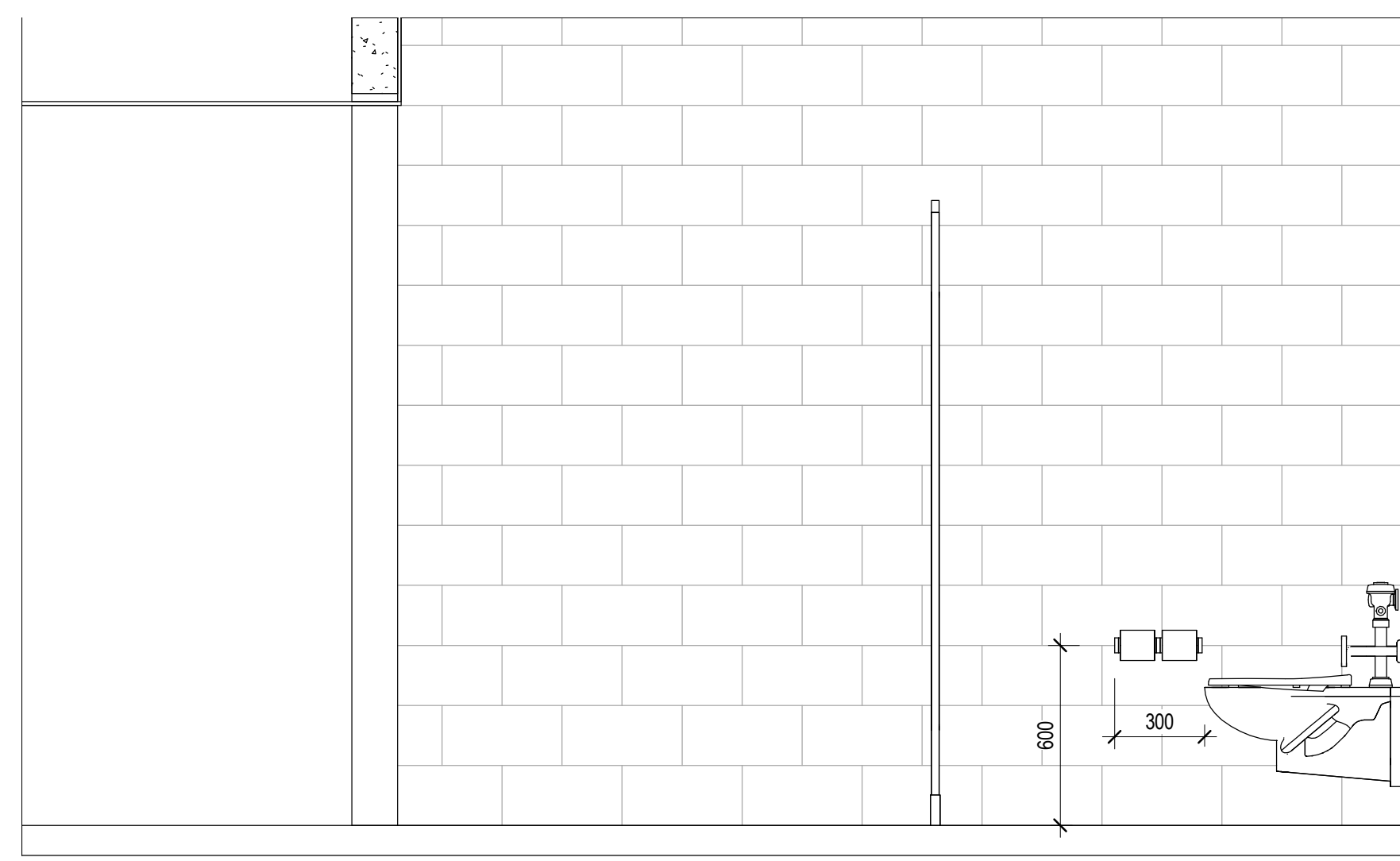
**NORTH GRENVILLE
POOL HOUSE**

DRAWING TITLE

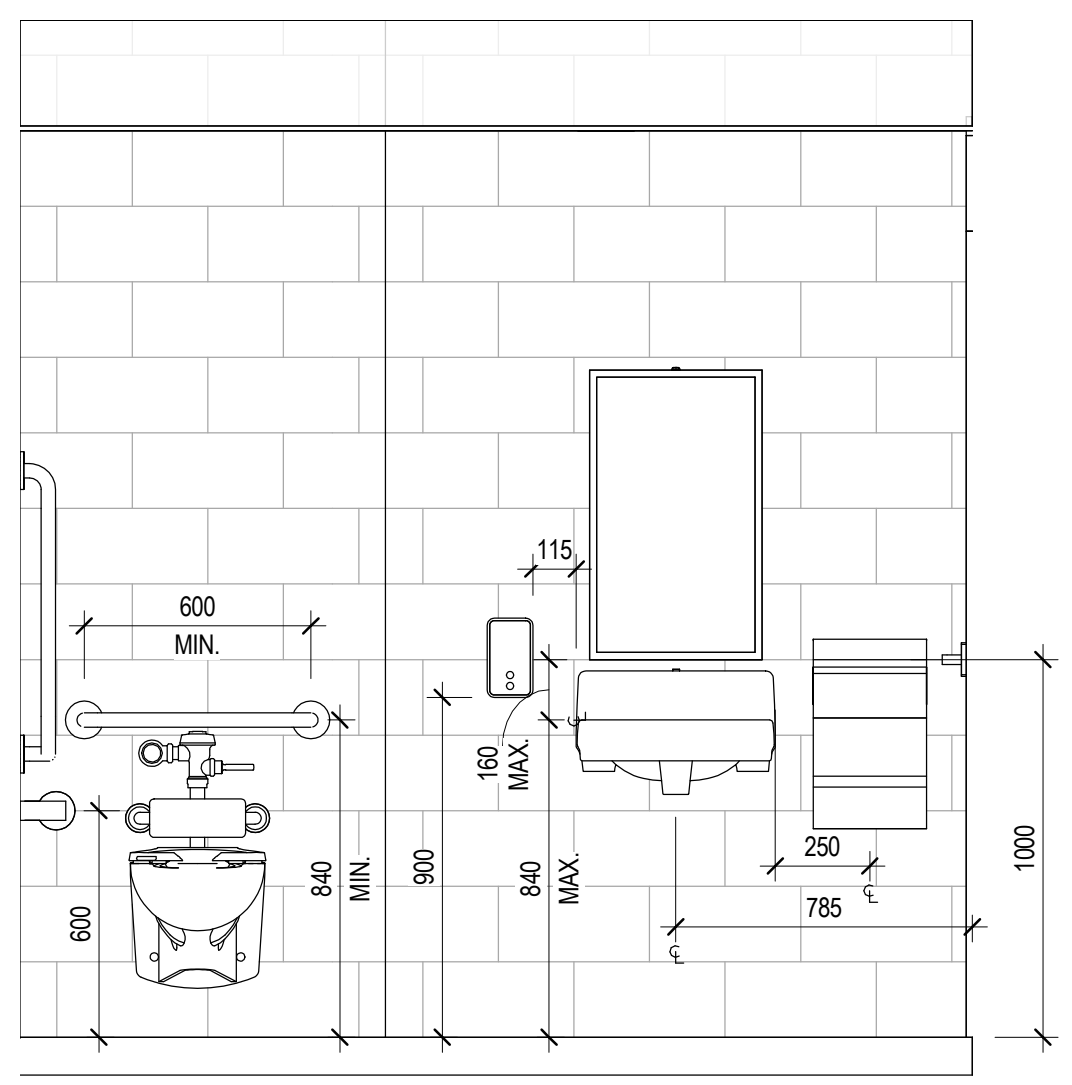
**INTERIOR ELEVATIONS
& DETAILS (FINISHES)**



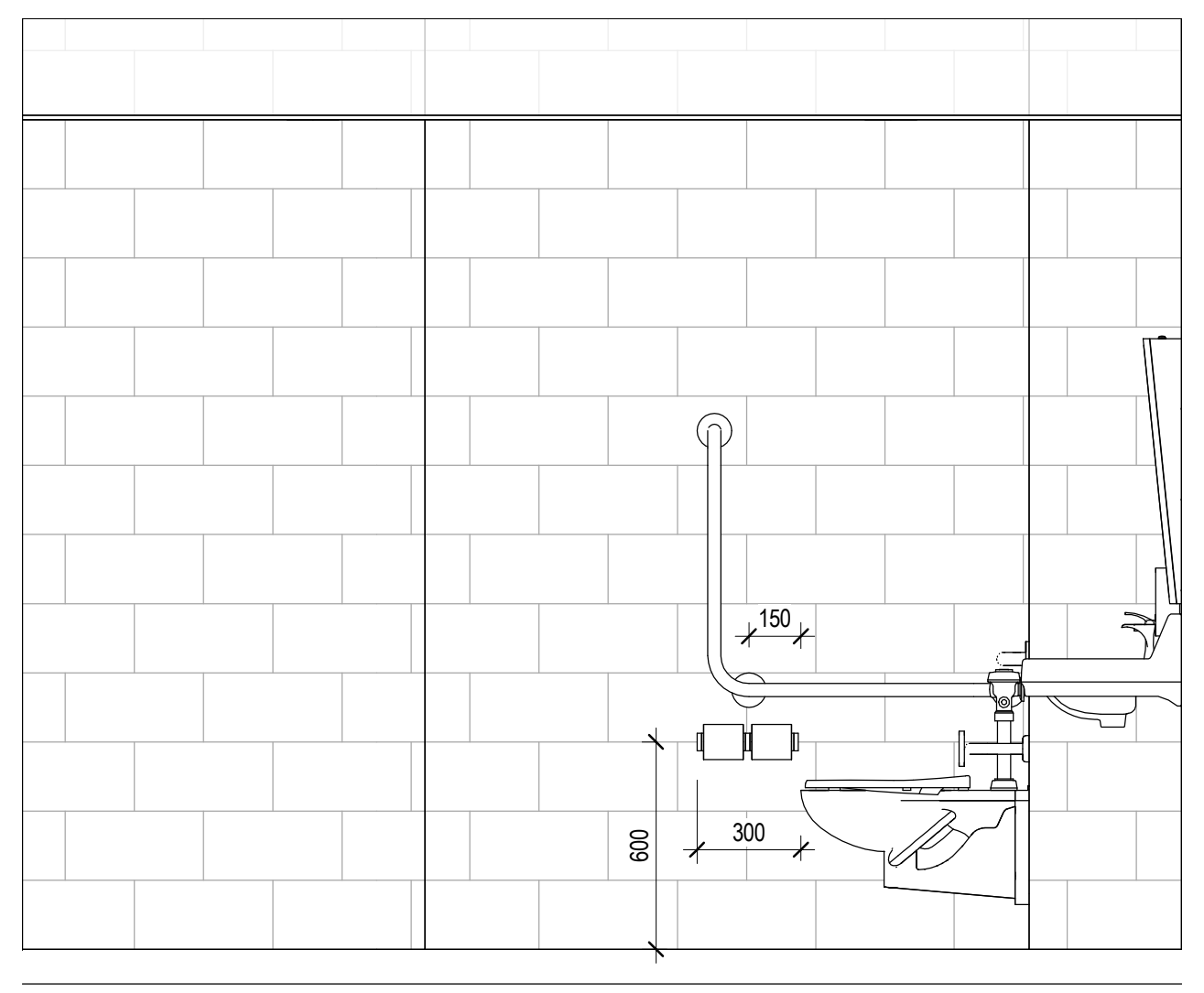
1 W/C - East Elevation
A113 A600 1:20



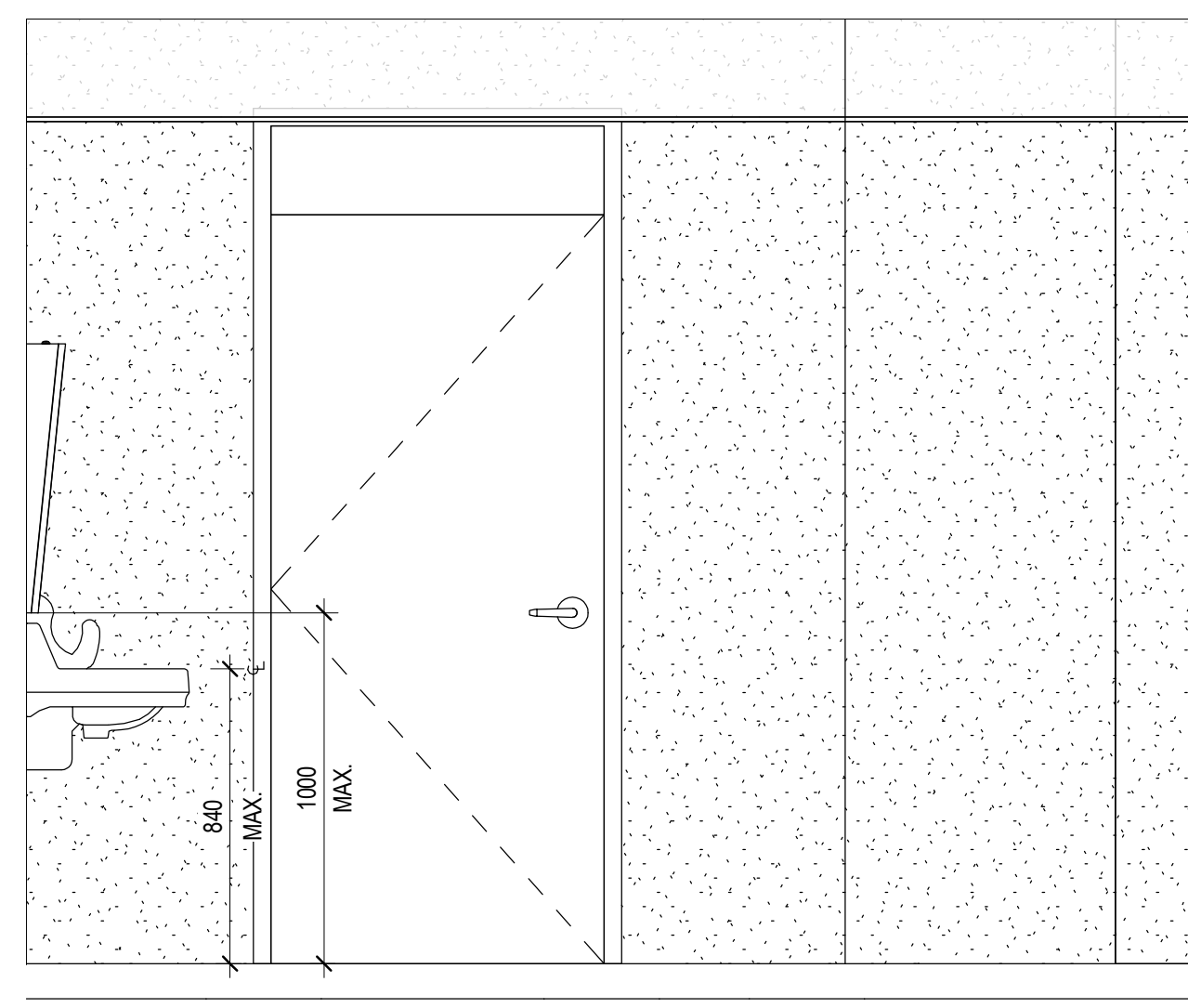
2 W/C - West Elevation
A113 A600 1:20



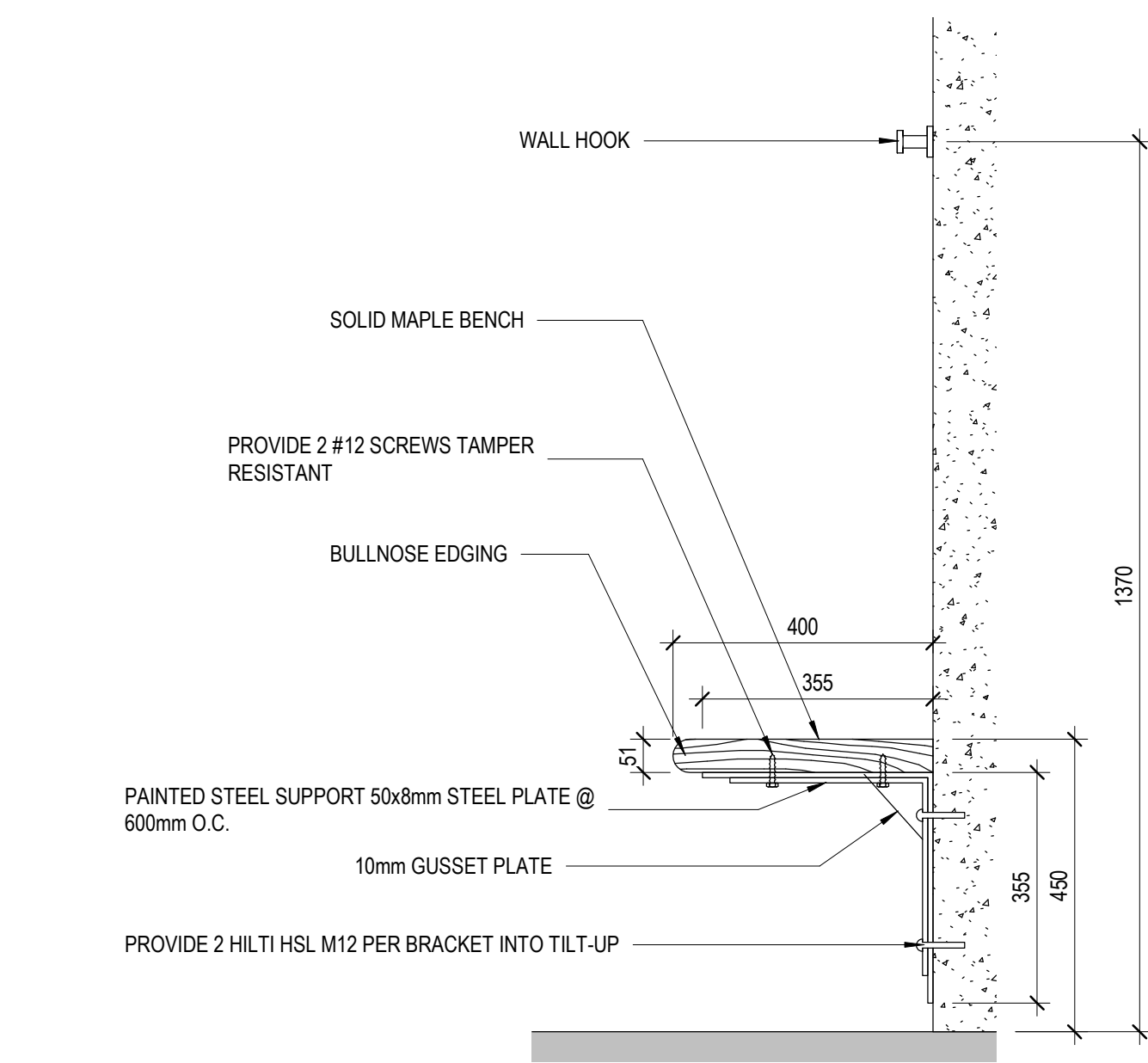
3 Universal Washroom - South Elevation
A113 A600 1:20



4 Universal Washroom - East Elevation
A113 A600 1:20

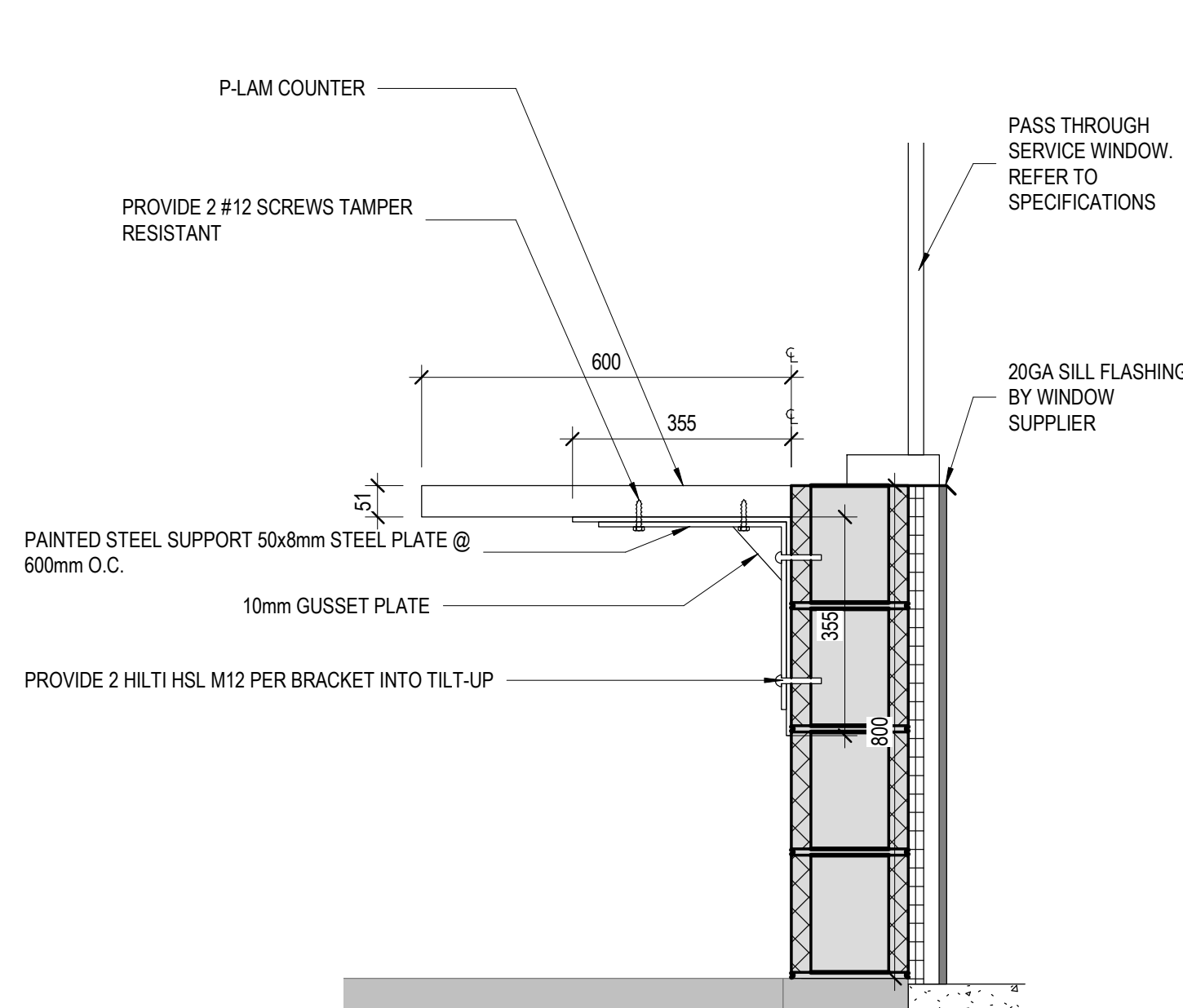


5 Universal Washroom - West Elevation
A113 A600 1:20



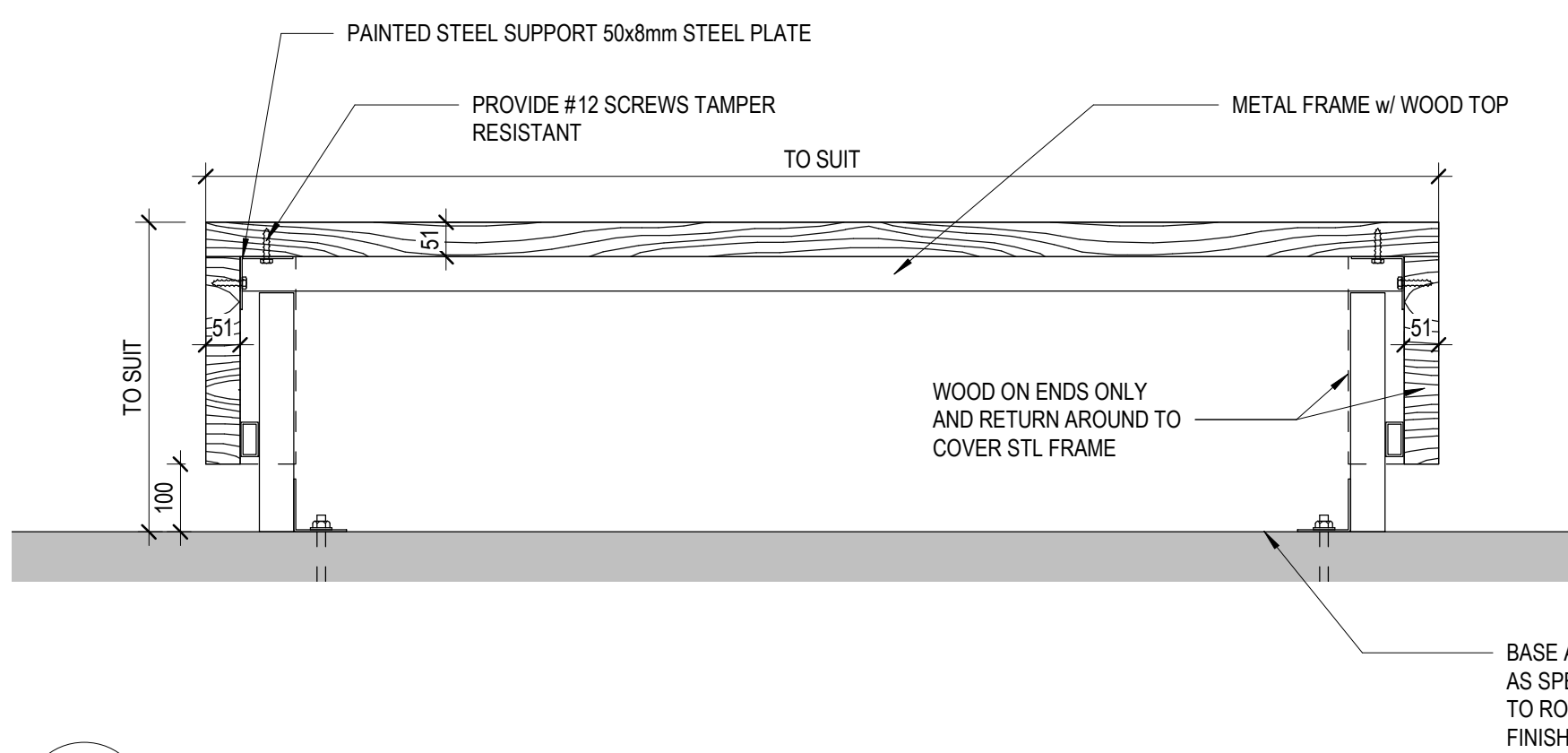
1 Typical C.R. Bench Section Detail

A800 1:10



2 Staff Room Pay Window Counter

A800 1:10



3 Typical Bench / Desk Section Detail

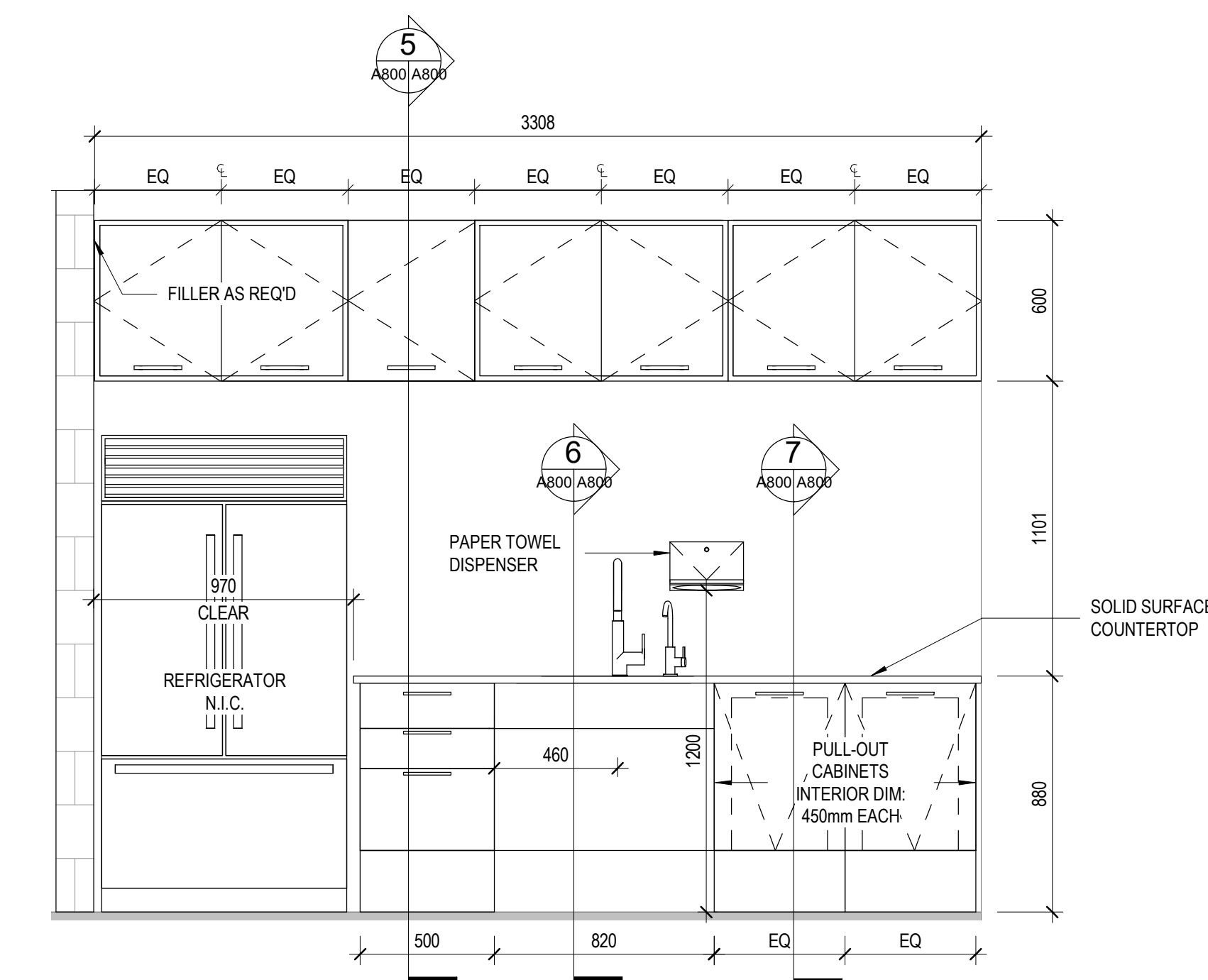
A800 1:10

BENCH LOCATIONS AND DIMENSIONS

BENCH @ WOMENS CHANGEROOM:
LENGTH - 1820mm HEIGHT - 450mm

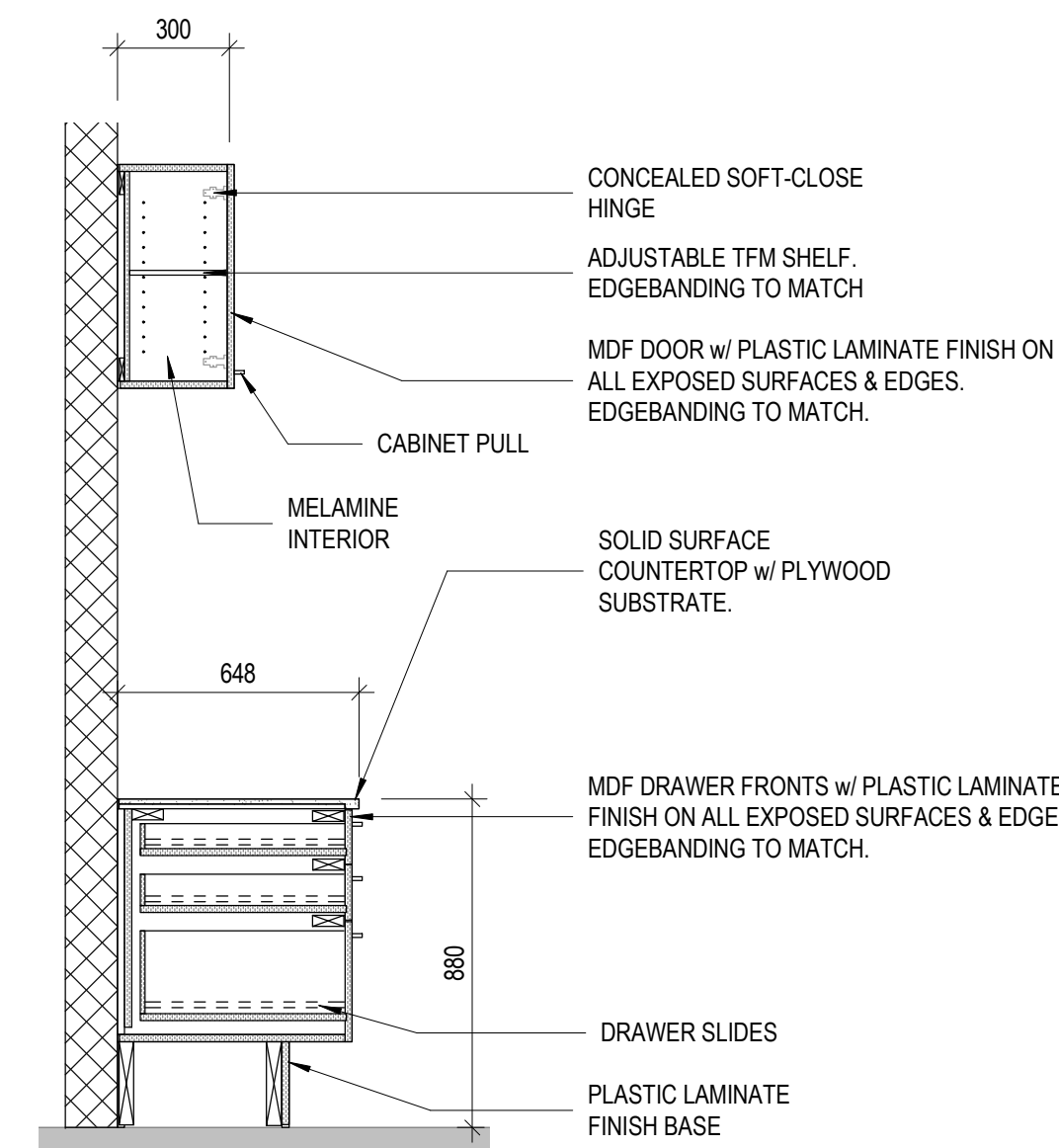
BENCH @ MENS CHANGEROOM:
LENGTH - 1820mm HEIGHT - 450mm

BENCH @ STAFF CHANGEROOM & FAMILY
CHANGEROOMS:
LENGTH - 1400mm HEIGHT - 450mm



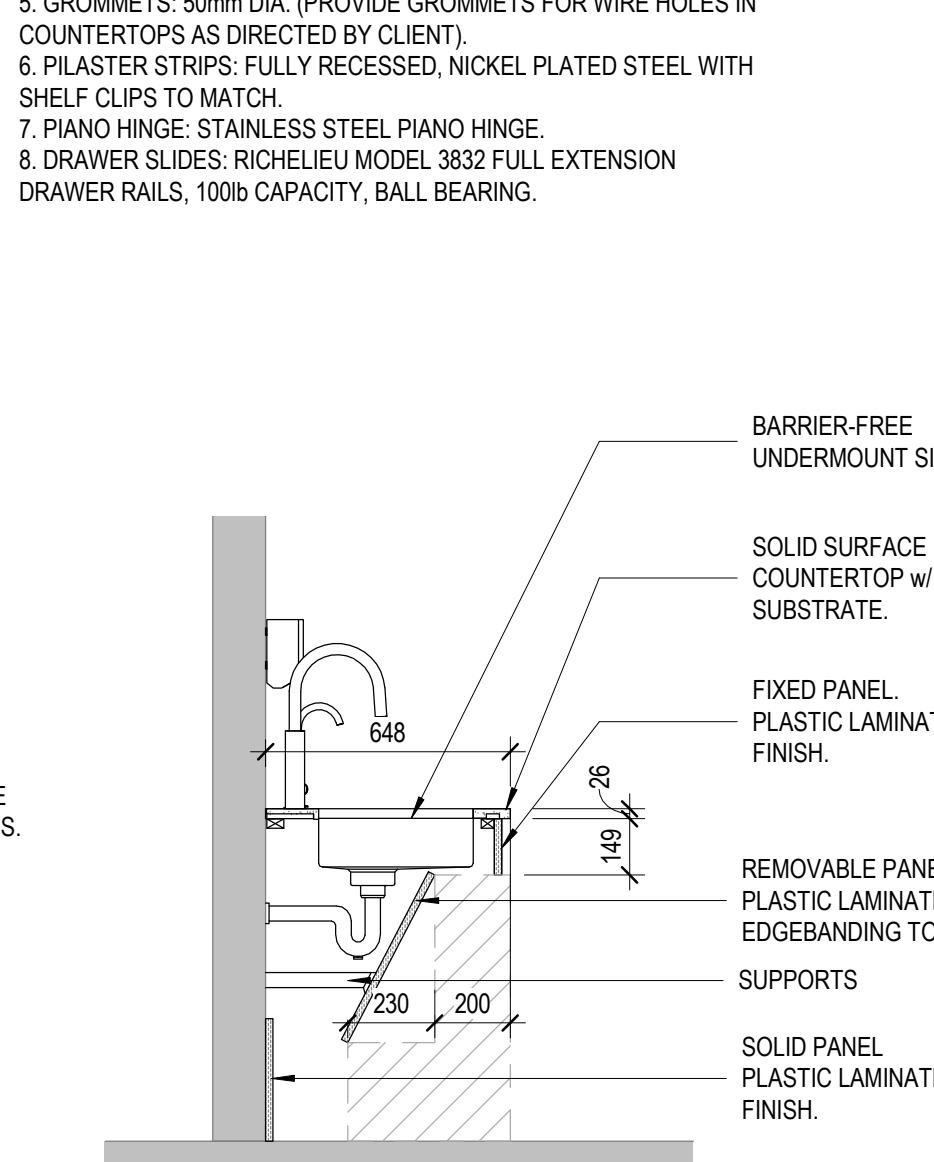
4 Staff Room - Millwork Elevation

A800 1:20



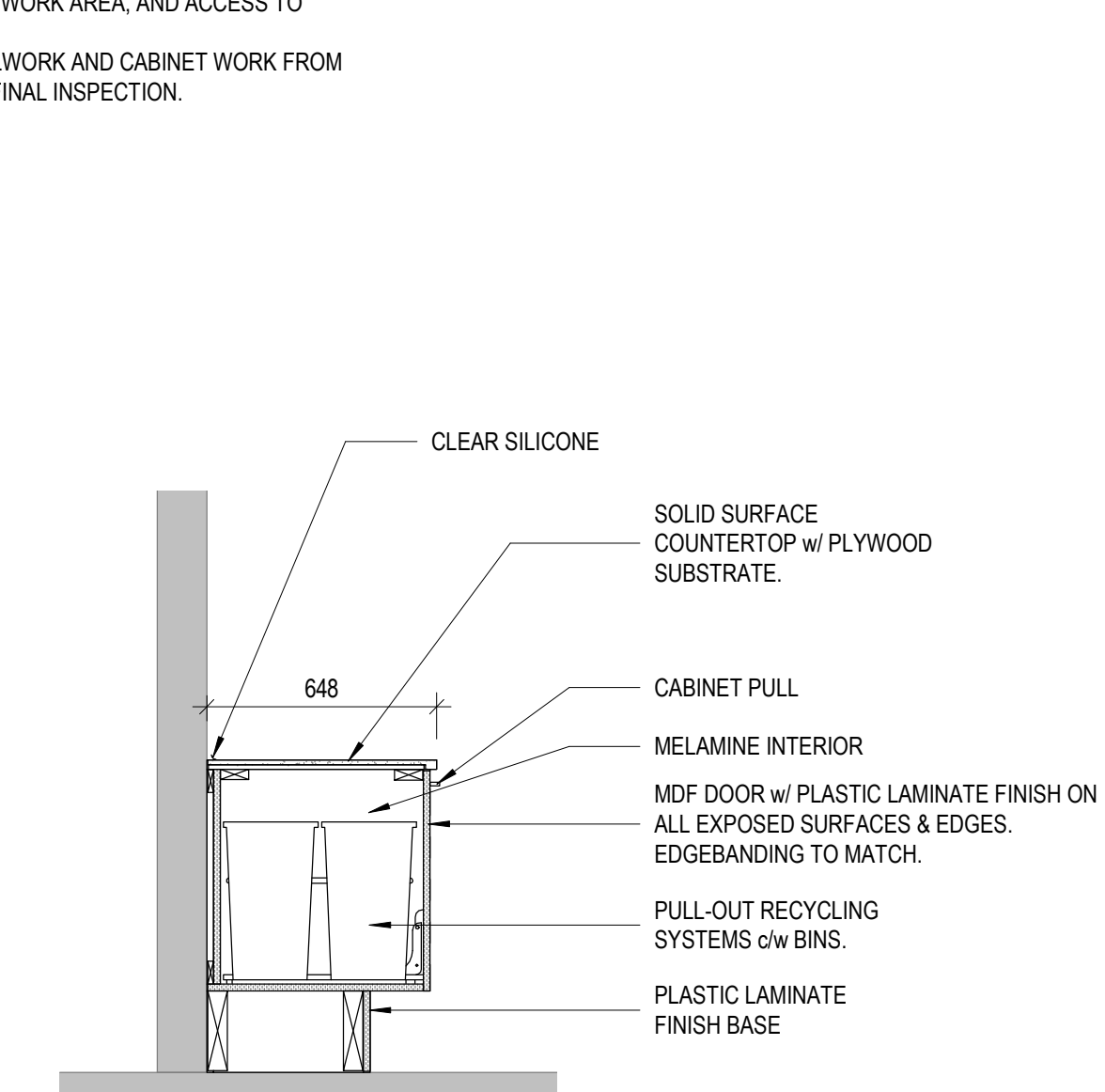
5 Staff Room Millwork Section 01

A800 1:20



6 Staff Room - Sink Cabinet

A800 1:20



7 Staff Room - Barrier Free Bank of Drawers

A800 1:20

GENERAL MILLWORK NOTES:
1. ENSURE THAT ALL WORK COMPLIES WITH LATEST REQUIREMENTS OF THE ONTARIO BUILDING CODE, CONSTRUCTION SAFETY ACT, LOCAL CODES AND BYLAWS, AND OTHER APPLICABLE REQUIREMENTS.
2. DO NOT SCALE MEASUREMENTS FROM THE DRAWINGS.
3. VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE, REPORT DISCREPANCIES TO CONSULTANT, AND ADJUST DRAWINGS AS REQ'D TO SUIT.
4. PROVIDE BLOCKING IN STUD SPACES AS REQ'D FOR INSTALLATION OF ALL ITEMS, INCLUDING (BUT NOT LIMITED TO): SINKS, VANITIES, COUNTERTOPS, WASHROOM ACCESSORIES, BENCHES, SHELVES, MILLWORK AND EQUIPMENT.
5. COORDINATE WORK w/ MECH. & ELEC. SUB-TRADES AS REQ'D.
6. MILLWORK IS TO BE OF PLASTIC LAMINATE FINISH WITH PLYWOOD CORE ALL AS DENOTED ON DRAWINGS.

MILLWORK MATERIALS:
1. LAMINATED PLASTIC FOR FLATWORK: TO CAN3-A172-M79, GRADE G.P. TYPE 1b, 1.6mm THICK, BASED ON STANDARD COLOUR RANGE WITH FURNITURE FINISH.
2. LAMINATE PLASTIC FOR POST-FORMING WORK: TO CAN3-A172-M79, GRADE PF, TYPE 2A, 1.25mm THICK, BASED ON STANDARD COLOUR RANGE WITH FURNITURE FINISH.
3. LAMINATED PLASTIC BACKING SHEET: GRADE BK, NOT LESS THAN 0.5mm THICK, SAME COLOUR AS FACE LAMINATE.
4. NAILS AND STAPLES: TO CSA B111.
5. WOOD SCREWS: STEEL PLAIN, TYPE AND SIZE TO SUIT APPLICATION.
6. SPLINES: WOOD.
7. SEALANT: CLEAR SILICONE.
8. LAMINATED PLASTIC ADHESIVE: UREA RESIN ADHESIVE TO CSA O112.5.
1. TEST FOR ACCEPTABLE VOC EMISSIONS IN ACCORDANCE WITH ASTM D2369 AND ASTM D 2832
2. ACCEPTABLE MATERIALS: ECP-44.

MANUFACTURED UNITS:
CASEWORK:
1. FABRICATE CASEWORKS TO AWMAC CUSTOM GRADE.
2. FURRING, BLOCKING, NAILING STRIPS, GROUNDS AND ROUGH BUCKS, 3. S2S IS ACCEPTABLE FOR STRAPPING.
4. BOARD SIZES: "STANDARD" OR BETTER GRADE.
5. DIMENSION SIZES: "STANDARD" LIGHT FRAMING OR BETTER GRADE.
6. GABLES, END PANELS, EDGES, DIVISIONS AND BOTTOMS: 19mm THICK PLYWOOD CORE CW PLASTIC LAMINATE FINISH
7. BACKS: 6mm THICK PLYWOOD CORE CW PLASTIC LAMINATE FINISH.

SHELVING:
1. PLASTIC LAMINATE FINISH ON 19mm THICK PLYWOOD CORE. ENSURE ALL EXPOSED EDGES, FACES, ETC. ARE COVERED IN PLASTIC LAMINATE.
2. PROVIDE ADJUSTABLE SHELVING WITH FULLY RECESSED PLASTER STRIPS UNLESS NOTED OTHERWISE, AND PROVIDE NUMBER OF CONCEALED SHELVES IN MILLWORK UPPERS AND LOWERS AS INDICATED IN SECTION FOR EACH BANK.
3. TOE KICK SUPPORT: SOLID CONTINUOUS 38x100 SELECT S/P/F BLOCKING RIPPED TO SUIT (REFER TO MILLWORK DRAWINGS FOR DIMENSIONS)

COUNTERS AND VANITIES:
1. SOLID SURFACE: SS1 or SS2
2. COUNTER TOPS TO EXTEND PAST FACED OF DRAWER OR DOOR FRONTS MIN. 25mm.
3. PROVIDE 100mm HIGH, WALL, END AND BACK SPLASHES.
4. WASHROOM VANITY COUNTER TOPS TO BE SOLID SURFACE

CASEWORK DOORS & DRAWER FRONTS:
FABRICATE DOORS TO AWMAC CUSTOM GRADE SUPPLEMENTED AS FOLLOWS: 19mm THICK PLYWOOD CORE CW PLASTIC LAMINATE FINISH AND MATCHING PLASTIC LAMINATE EDGING.

HORIZONTAL DIVIDERS:
13mm THICK PLYWOOD CORE w/ PLASTIC LAMINATE FINISH AND MATCHING PLASTIC LAMINATE EDGING.

MILLWORK HARDWARE LIST
1. PULLS: D-TYPE, 128mm LONG, 28mm PROJECTION, STAINLESS STEEL FINISH BY RICHELIEU CONTEMPORARY STAINLESS STEEL HANDLE PULL-3013
2. CUPBOARD HINGES: FULLY CONCEALED 110deg MODULAR OPENING, SELF CLOSING, HETTICH MODEL #742-T-42. USE #8 WOOD SCREWS FOR FASTENING.
3. CUPBOARD AND DRAWER LOCKS: TIMBERLINE #232.102.302 (HAFELE) OR APPROVED EQUIVALENT, KEY ALIKE IN EACH ROOM. FOUR KEYS PER ROOM, FINISH TO MATCH ADJACENT HARDWARE.
4. SURFACE BOLTS: HAFELE 900.17 SATIN NICKEL PLATED BRASS, ON ALL DOUBLE DOORS TO BE LOCKED.
5. GROMMETS: 50mm DIA. (PROVIDE GROMMETS FOR WIRE HOLES IN COUNTERTOPS AS DIRECTED BY CLIENT).
6. PILASTER STRIPS: FULLY RECESSED, NICKEL PLATED STEEL WITH SHELF CLIPS TO MATCH.
7. PIANO HINGE: STAINLESS STEEL PIANO HINGE.
8. DRAWER SLIDES: RICHELIEU MODEL 3832 FULL EXTENSION DRAWER RAILS, 100lb CAPACITY, BALL BEARING.

MILLWORK FABRICATION
1. MILLWORK CONTRACTOR IS NOT TO FABRICATE ANY MILLWORK PRIOR TO SHOP DRAWING APPROVALS INCLUDING BUT NOT LIMITED TO: SINKS, FIXTURES, EQUIPMENT, SIZES OF APPLIANCES, ETC.
2. SHOP INSTALL CABINET HARDWARE FOR DOORS, SHELVES AND DRAWERS. RECESS SHELF STANDARDS UNLESS NOTED OTHERWISE.
3. MAKE SHELVING FOR CABINETWORK ADJUSTABLE UNLESS NOTED OTHERWISE.
4. PROVIDE CUTOUTS FOR PLUMBING FIXTURES, INSERTS, APPLIANCES, OUTLET BOXES AND OTHER FIXTURES.
5. SHOP ASSEMBLE WORK FOR DELIVERY TO SITE IN SIZE EASILY HANDLED AND TO ENSURE PASSAGE THROUGH BUILDING OPENINGS.
6. OBTAIN GOVERNING DIMENSIONS BEFORE FABRICATING ITEMS WHICH ARE TO ACCOMMODATE OR ABUT APPLIANCES, EQUIPMENT AND OTHER MATERIALS.
7. ENSURE ADJACENT PARTS OF CONTINUOUS LAMINATE WORK MATCH IN COLOUR AND PATTERN.
8. LAMINATED PLASTIC TO CORE MATERIAL IN ACCORDANCE WITH ADHESIVE MFRS PRINTED INSTRUCTIONS. ENSURE CORE AND LAMINATE PROFILES COINCIDE TO PROVIDE CONTINUOUS SUPPORT AND BOND OVER ENTIRE SURFACE.
9. WHERE PLASTIC LAMINATE FINISH IS REQ'D, USE STRAIGHT SELF-EDGING LAMINATE STRIP FOR FLATWORK TO COVER EXPOSED EDGE OF CORE MATERIAL. CHAMFER EXPOSED EDGES UNIFORMLY AT APPROX. 20 DEGREES. DO NOT MITER LAMINATE EDGES.
10. APPLY LAMINATE BACKING SHEET TO REVERSE SIDE OF CORE OF PLASTIC LAMINATE SHEET.

MILLWORK BENCH FINISHING:
1. SET NAILS, APPLY WOOD FILLER (COLOUR TO MATCH HARDWOOD) TO OPEN GRAIN AND INDENTATIONS, SAND SMOOTH, AND LEAVE READY TO RECEIVE FINISH.

MILLWORK BENCH FINISHING (CONT.):
2. FOR TOP OF HORIZONTAL HARDWOOD BENCH SURFACE PROVIDE TWO COATS KD-DIAMOND POSTCAT TOP COAT SERIES BY KATILAC COATINGS INC.
100% SOLID CLEAR EPOXY COATING (SUPPLIER RANDAL PAINTS).
3. ALL HARDWOOD TO HAVE CONCEALED FASTENINGS WHERE POSSIBLE, OTHERWISE RECESS SCREWS AND BOLTS AND PLUG HOLES WITH MIN. 6mm THICK WOOD PLUGS (SPECIES, COLOUR, GRAIN AND GRAIN ORIENTATION TO MATCH HARDWOOD); SAND PLUGGED AREAS SMOOTH TO RECEIVE FINISH.
WHERE FINISHING NAILS ARE USED, INSERT NAILS AT REGULAR INTERVALS IN STRAIGHT LINES FOR NEAT AND EVEN APPEARANCE. APPLY FILLER (COLOUR TO MATCH WOOD) AND SAND SMOOTH READY TO RECEIVE FINISH.
4. FACTORY FINISH ALL HARDWOOD ON ALL SURFACES, AND LIMIT ON-SITE WORK TO TOUCH-UPS ONLY.

EXECUTION:
1. DO ARCHITECTURAL WOODWORK TO AWMAC QUALITY STANDARDS UNLESS SPECIFIED OTHERWISE.
2. INSTALL PREFINISHED MILLWORK POSITIONED ACCURATELY, LEVEL, PLUMB AND STRAIGHT.
3. FASTEN AND ANCHOR MILLWORK SECURELY. PROVIDE HEAVY DUTY FIXTURE ATTACHMENTS FOR WALL MOUNTED CABINETS.
4. USE DRAW BOLTS IN COUNTERTOP JOINTS.
5. SCRIBE AND CUT MILLWORK AS REQ'D TO FIT ABUTTING SURFACES, TO FIT TIGHTLY INTO RECESSES, AND TO ACCOMMODATE PIPING, COLUMNS, FIXTURES, OUTLETS AND/OR OTHER PROJECTING, INTERSECTING OR PENETRATING OBJECTS/SURFACES.
6. APPLY WATER RESISTANT BUILDING PAPER BITUMINOUS COATING OVER WOOD FRAMING MEMBERS IN CONTACT WITH MASONRY OR CEMENTITIOUS CONSTRUCTION.
7. FIT HARDWARE ACCURATELY AND SECURELY IN ACCORDANCE WITH MFRS PRINTED INSTRUCTIONS.

CLEANING:
1. CLEAN AFTER INSTALLATION TO REMOVE CONSTRUCTION DEBRIS & ACCUMULATED ENVIRONMENTAL DIRT.
2. CLEAN IN ACCORDANCE WITH NEMA LD 3, ANNEX B.
3. REMOVE ALL TRACES OF PRIMER, PAINT, CAULKING, EPOXY & FILLER MATERIALS. CLEAN DOORS AND FRAMES. CLEAN WORK AREA, AND ACCESS TO WORK AREA.
4. PROTECT MILLWORK AND CABINET WORK FROM DAMAGE UNTIL FINAL INSPECTION.

METAL FABRICATIONS
SUBMITTALS:
1. SUBMIT SHOP DRAWINGS OF METAL FABRICATIONS INDICATING MATERIALS, CORE THICKNESSES, FINISHES, CONNECTIONS, JOINTS, METHODS OF ANCHORAGE, NUMBER OF ANCHORS, SUPPORTS, REINFORCEMENT, DETAILS AND ACCESSORIES.
2. SUBMIT TO CONSULTANT ONE SAMPLE OF EACH METAL FABRICATION REQUIRED FOR THE PROJECT FOR REVIEW AND COMMENT BEFORE FABRICATING THE BALANCE OF ITEMS REQUIRED.

METAL FABRICATION MATERIALS:
1. STEEL SECTIONS AND PLATES: TO CAN/CSAG40.20/G40.21, GRADE 300W;
2. WELDING MATERIALS: TO CSA W59;
3. WELDING ELECTRODES: TO CSA W48 SERIES;
4. BOLTS AND ANCHOR BOLTS: TO ASTM A 307;

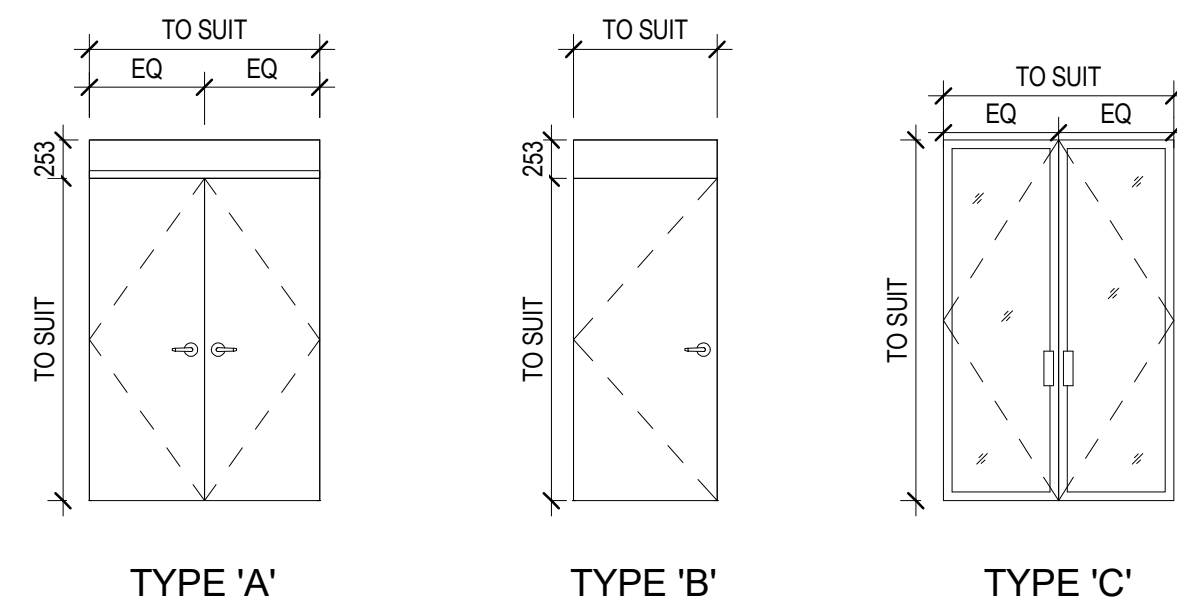
METAL FABRICATION:
1. FABRICATE WORK SQUARE, TRUE, STRAIGHT AND ACCURATELY SIZED, w/ CLOSELY FITTING JOINTS.
2. ENSURE SECURE INSTALLATION OF FABRICATIONS
3. USE SELF-TAPPING SHAKE-PROOF FLAT HEADED SCREWS ON ITEMS REQUIRING ASSEMBLY BY SCREWS UNLESS NOTED OTHERWISE
4. WHERE POSSIBLE, FIT AND SHOP ASSEMBLE WORK, READY FOR ERECTION
5. ENSURE EXPOSED WELDS ARE CONTINUOUS FOR LENGTH OF EACH JOINT. FILE OR GRIND EXPOSED WELDS SMOOTH AND FLUSH. REMOVE ALL WELD SPATTER. PREPARE METAL FABRICATIONS TO SMOOTH AND FLAT SURFACES WITH SEAMLESS APPEARANCES.

METAL FABRICATION FINISHES:
1. APPLY ONE SHOP COAT OF PRIMER TO METAL ITEMS (PRIMER TO CISC/CPMA 2075 QUICK DRYING PRIMER, LOW VOC)
2. USE PRIMER UNADULTERATED, AS PREPARED BY MANUFACTURER. PAINT ON DRY SURFACES, FREE FROM RUST, SCALE, GREASE. DO NOT PAINT WHEN TEMPERATURE IS LOWER THAN 7 DEGREES CELSIUS
3. CONFORM TO LATEST MPI REQUIREMENTS FOR INTERIOR PAINTING WORK INCLUDING PREPARATION AND PRIMING
4. MATERIALS (PRIMERS, PAINTS, COATINGS, FILLERS, SOLVENTS, THINNERS, ETC) SHALL BE IN ACCORDANCE WITH MPI PAINTING SPECIFICATION MANUAL "APPROVED PRODUCT" LISTING AND SHALL BE FROM A SINGLE MANUFACTURER FOR EACH SYSTEM USED
5. PROVIDE SEMI-GLOSS POWDER COATED FINISH, COLOUR TO LATER DETERMINED BY OWNER. ALL METAL FABRICATED SUPPORT BRACKETS INCLUDING BUT NOT LIMITED TO: WASHROOM COUNTERS, DISPATCH COUNTERS, BENCH SUPPORTS, ETC. TO BE SEMI-GLOSS POWDER COAT FINISH.
6. SHOP APPLY PAINTS BY SPRAY TO METAL FABRICATIONS PRIOR TO BRINGING METAL FABRICATIONS TO SITE. FIELD TOUCH UP FABRICATIONS AS REQ'D AFTER INSTALLATION, WHERE TOUCH UP IS REQ'D, REFINISH ENTIRE METAL FABRICATION.

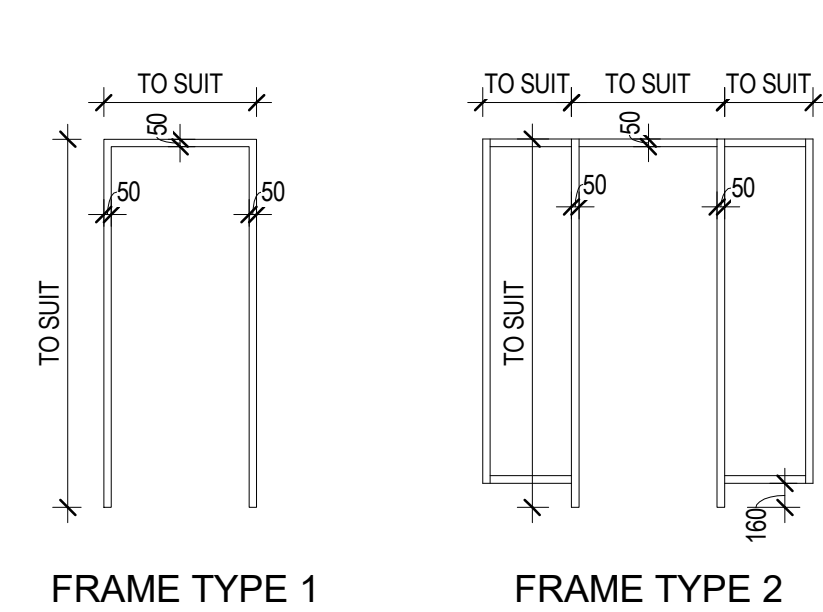
METAL FABRICATIONS
EXECUTION:
1. DO WELDING WORK IN ACCORDANCE WITH CSA W59 UNLESS NOTED OTHERWISE
2. CONSTRUCT MILLWORK SUPPORTS AND ACCESSORIES FOR ITEMS SUCH AS VANITY SUPPORTS, SHELF SUPPORTS, SEAT SUPPORTS, COAT HOOKS, AND SIMILAR ITEMS AS DETAILED.
3. ERECT METAL FABRICATIONS SQUARE, PLUMB, STRAIGHT AND TRUE, ACCURATELY FITTED WITH TIGHT JOINTS AND INTERSECTIONS
4. EXPOSED FASTENING DEVICES TO MATCH THE FINISH AND BE COMPATIBLE WITH THE MATERIAL THROUGH WHICH THEY PASS

DOOR SCHEDULE										
Mark	DOOR					FRAME			FRR	Description
	Height	Width	Type	Door Material	Finish	Frame Type	Frame Material	Frame Finish		
D101-a	2134	950	B	HM	PT	1	HM	PT		
D101-b	2134	1900	A	HM	PT	1	HM	PT		
D102	2134	950	B	HM	PT	1	HM	PT		
D103-a	2134	950	B	HM	PT	1	HM	PT		
D103-b	2134	950	B	HM	PT	1	HM	PT		
D106	2134	950	B	HM	PT	1	HM	PT		
D107-a	2134	950	B	HM	PT	1	HM	PT		
D107-b	2134	950	B	HM	PT	1	HM	PT		
D110	2134	950	B	HM	PT	1	HM	PT		
D111	2134	950	B	HM	PT	1	HM	PT		
D112	2134	950	B	HM	PT	1	HM	PT		
D113-a	2134	950	B	SCW	PT	1	ALUM	PT		
D113-b	2134	1900	C	FG		2	ALUM	PT		
D114	2134	950	B	SCW	PT	1	HM	PT		
D115	2134	950	B	SCW	PT	1	HM	PT		
D116	2134	950	B	SCW	PT	1	HM	PT		
D117-a	2134	1015	B	HM	PT	1	HM	PT		EXISTING DOOR. NEW PAINT FINISH.
D117-b	2134	950	B	HM	PT	1	HM	PT		
D118	2134	1524	A	HM	PT	1	HM	PT		EXISTING DOOR. NEW PAINT FINISH.
D119-a	2134	950	B	HM	PT	1	HM	PT		
D119-b	2134	950	B	HM	PT	1	HM	PT		

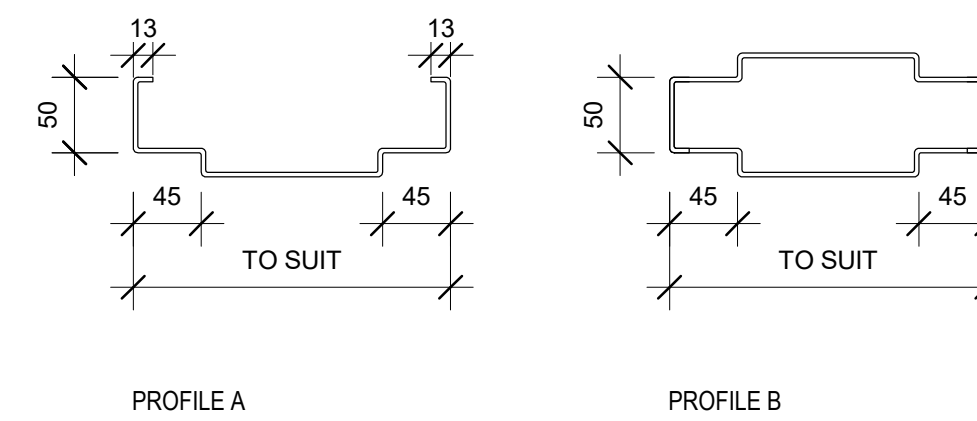
DOOR TYPE LEGEND



DOOR FRAME LEGEND



DOOR FRAME PROFILE LEGEND



GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- CONFIRM ACTUAL ROUGH OPENING SIZES BEFORE DOOR FABRICATION.
- PREPARE ALL OPENINGS TO SUIT NEW DOOR INSTALLATION.

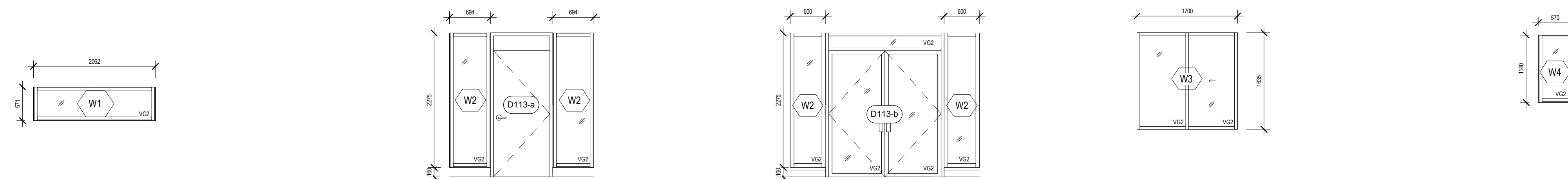
DOOR SCHEDULE LEGEND

- ALUM ALUMINUM
- BFO BARRIER FREE OPERATOR
- CRA CARD READER ACCESS
- CW CURTAIN WALL
- DLKA DOOR LOCK KEY ACCESS
- EDS ELECTRIC DOOR STRIKE
- EML ELECTROMAGNETIC LOCKS
- FAS FIRE ALARM SYSTEM
- FBFO FUTURE BARRIER FREE OPERATOR (CONDUIT AND BOX ROUGH IN ONLY)
- FG FRAMELESS GLASS
- HM HOLLOW METAL
- HM-WS HOLLOW METAL WITH WELDED STIFFENED CORE
- HMI HOLLOW METAL INSULATED
- HMI-WS HOLLOW METAL WITH WELDED STIFFENED CORE AND FIBERGLASS INSULATION
- KP KEY PAD
- OCD OVERHEAD COILING DOOR
- OVH OVERHEAD DOOR
- PT PAINT
- SAS SECURITY ALARM SYSTEM CONTACTS
- SCW SOLID CORE WOOD
- SLBFO SINGLE LEAF BARRIER FREE OPERATOR
- TBF THERMALLY BROKEN FRAME
- TCG TEMPERED COATED GLAZING
- TGL TEMPERED GLASS
- THK THICKNESS
- VS VIDEO SURVEILLANCE
- WD WOOD

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR		WALLS				CEILING		Remarks
		MAT.	BASE	North	East	South	West	MAT.	FIN.	
Ground Floor Level										
101	Splash Pad Mechanical Room	CONC.	RB	-	-	-	-	GB	PT	
102	Electrical Room	CONC.	RB	-	-	-	-	GB	PT	
103	Womens Change Room	CONC.	RB	PT1	PT1	PT1	PT1	GB	PT	
104	Showers	CONC.	RB	PT1	PT1	PT1	PT1	GB	PT	
105	Washrooms	CONC.	RB	PT1	PT1	PT1	PT1	GB	PT	
106	Janitors Closet	CONC.	RB	-	-	-	-	GB	PT	
107	Mens Change Room	CONC.	RB	PT1	PT1	PT1	PT1	GB	PT	
108	Showers	CONC.	RB	PT1	PT1	PT1	PT1	GB	PT	
109	Washrooms	CONC.	RB	PT1	PT1	PT1	PT1	GB	PT	
110	Universal Washroom	CONC.	RB	PT1	PT1	PT1	PT1	GB	PT	
111	Family Change Room	CT1	RB	PT1	PT1	PT1	PT1	GB	PT	
112	Family Change Room	CT1	RB	PT1	PT1	PT1	PT1	GB	PT	
113	Staff Room	CT1	RB	PT1	GB	PT1	PT1	GB	PT	
114	Staff Change Room	CT1	RB	PT1	PT1	GB	GB	GB	PT	
115	Staff Washroom	CT1	RB	GB	GB	GB	GB	GB	PT	
116	Office	CT1	RB	GB	PT1	GB	GLZ	GB	PT	
117	Storage Room	CONC.	RB	-	-	-	-	GB	PT	
118	Existing Pump Room	EXP.	RB	-	-	-	-	GB	PT	
119	Chemical Storage Room	EXP.	RB	-	-	-	-	GB	PT	

EXTERIOR WINDOW ELEVATIONS



GLAZING LEGEND

- VG2 VISION GLAZING, DOUBLE UNIT. REFER TO SPECIFICATIONS.
- ARROW DENOTES DIRECTION OF SLIDE FOR OPERABLE WINDOWS

1 Fixed Windows - North & South Elevations
A810 1:50

2 Ext. Glazing @ North Entrance
A810 1:50

3 Ext. Glazing @ South Entrance
A810 1:50

4 Pass Through Service Window
A810 1:50

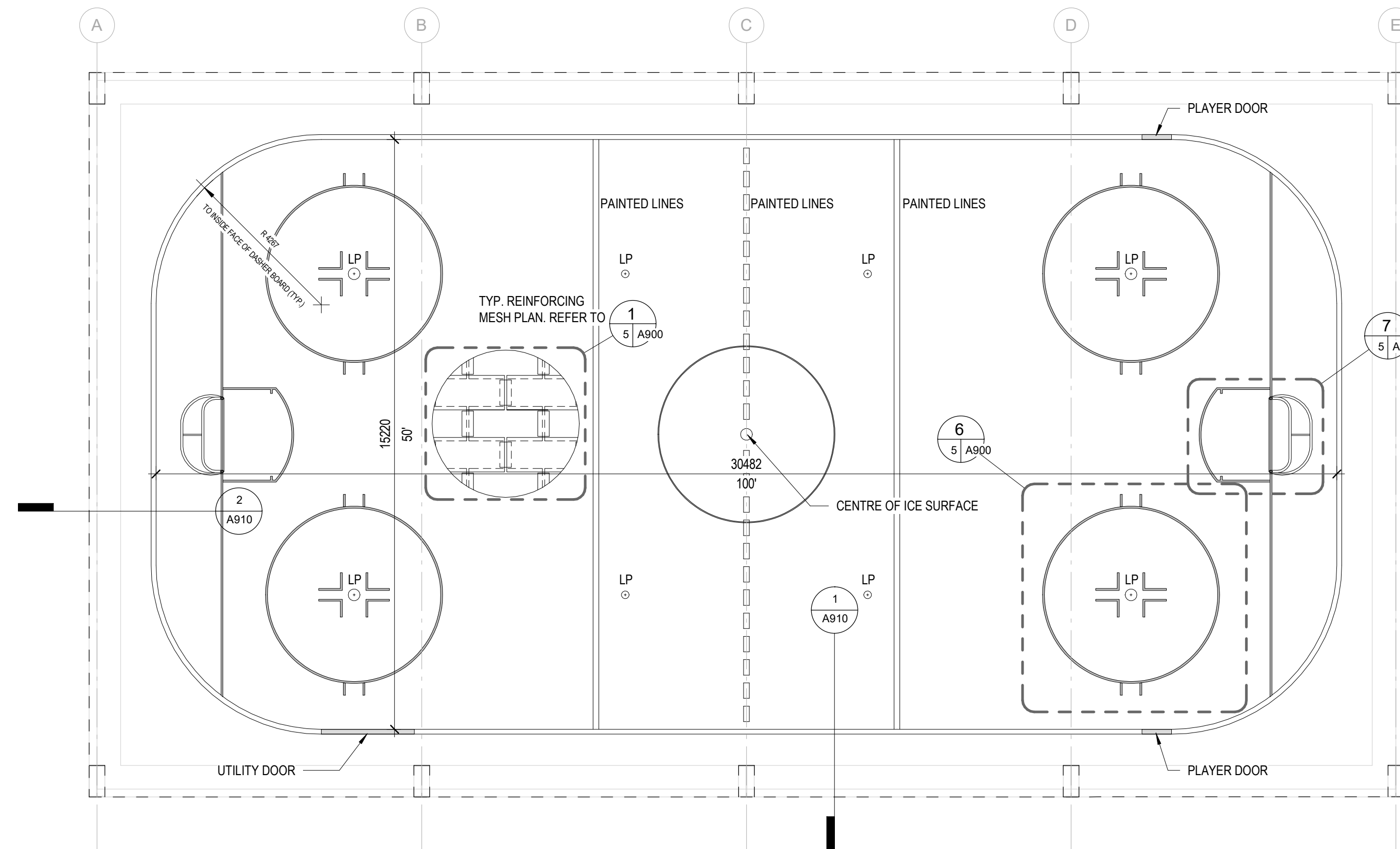
5 Window @ Splash Pad M&E
A810 1:50



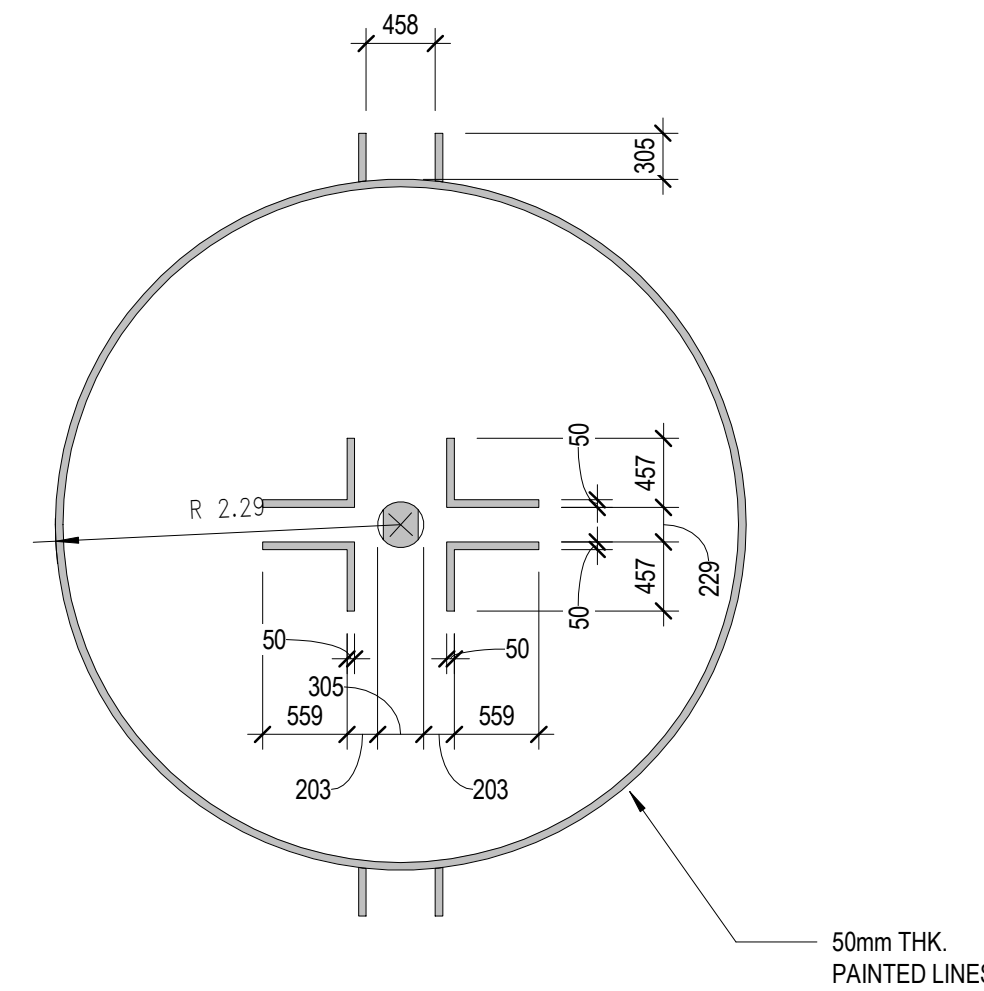


**NORTH GRENVILLE
POOL HOUSE**

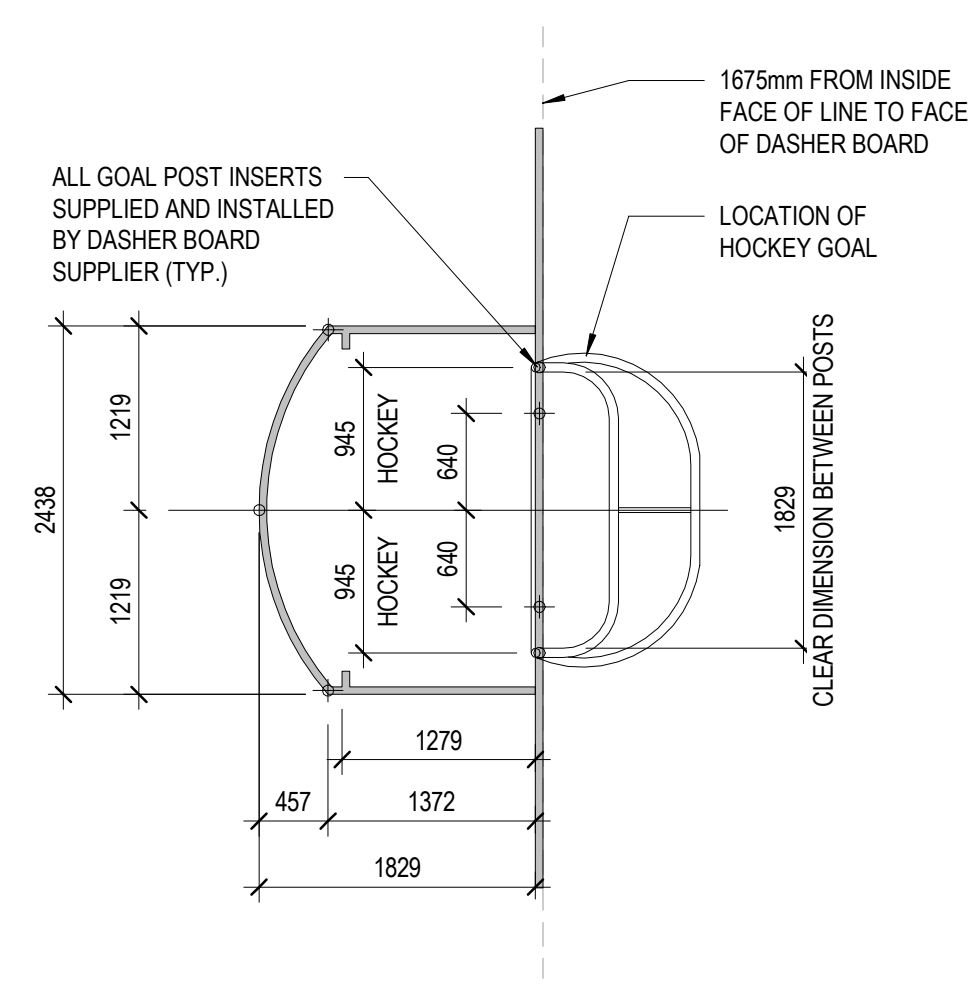
**ICE RINK SLAB PLAN &
DETAILS**



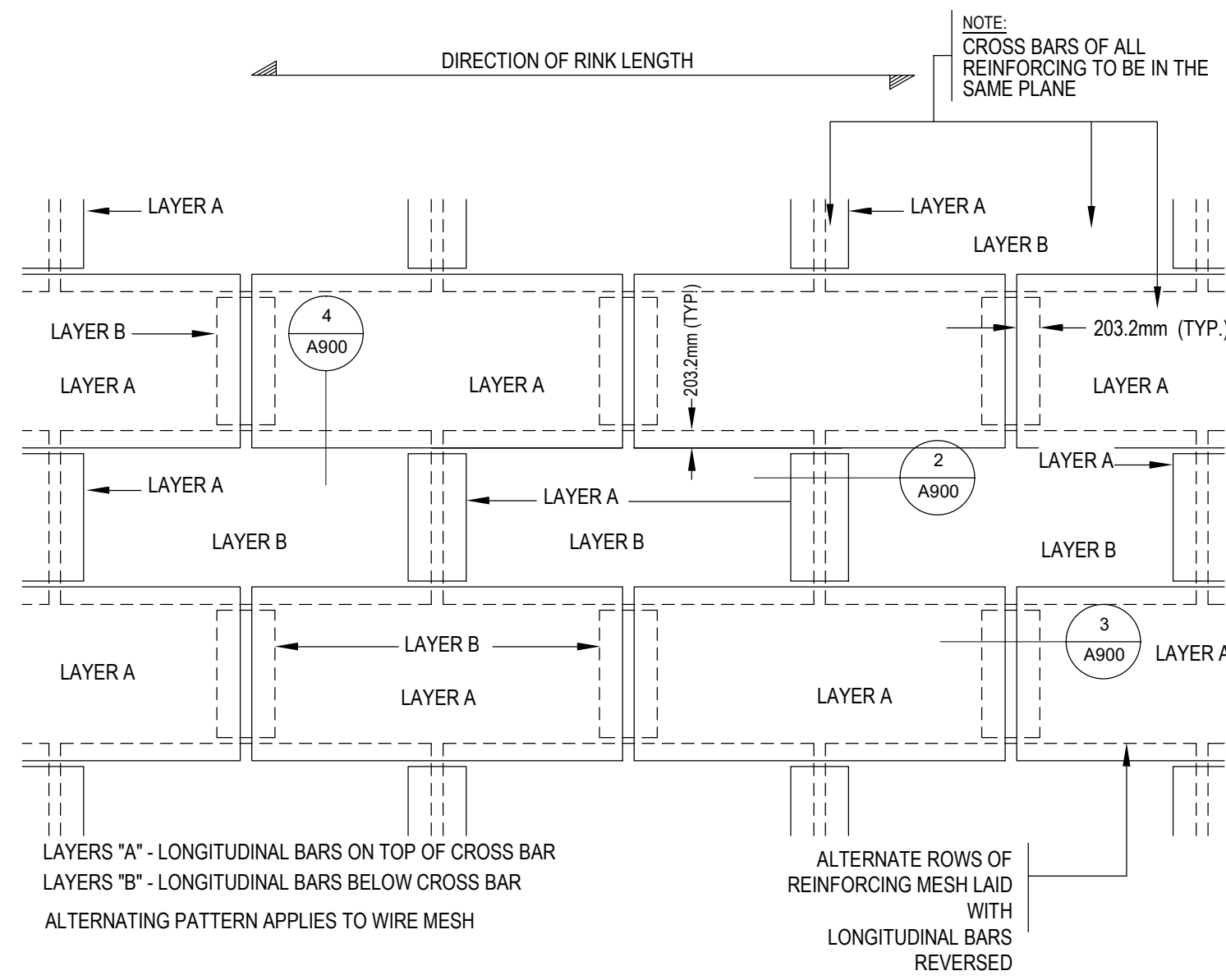
5 Rink Slab Plan
A900 1:100



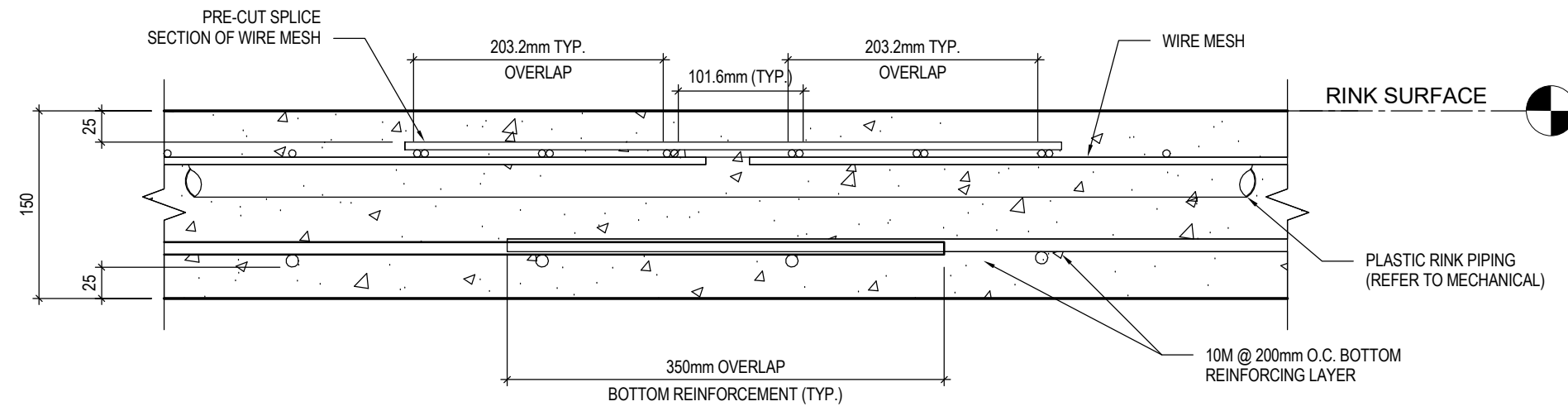
6 Ice Rink - Painted Markings Detail
A900 1:50



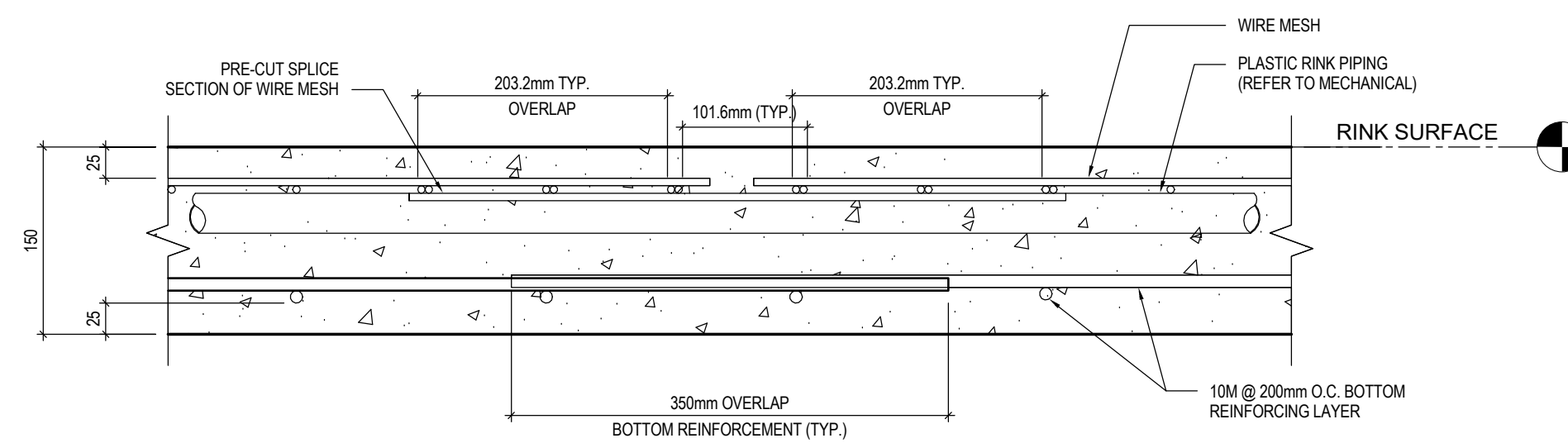
7 Ice Rink - Goal Crease Detail
A900 1:50



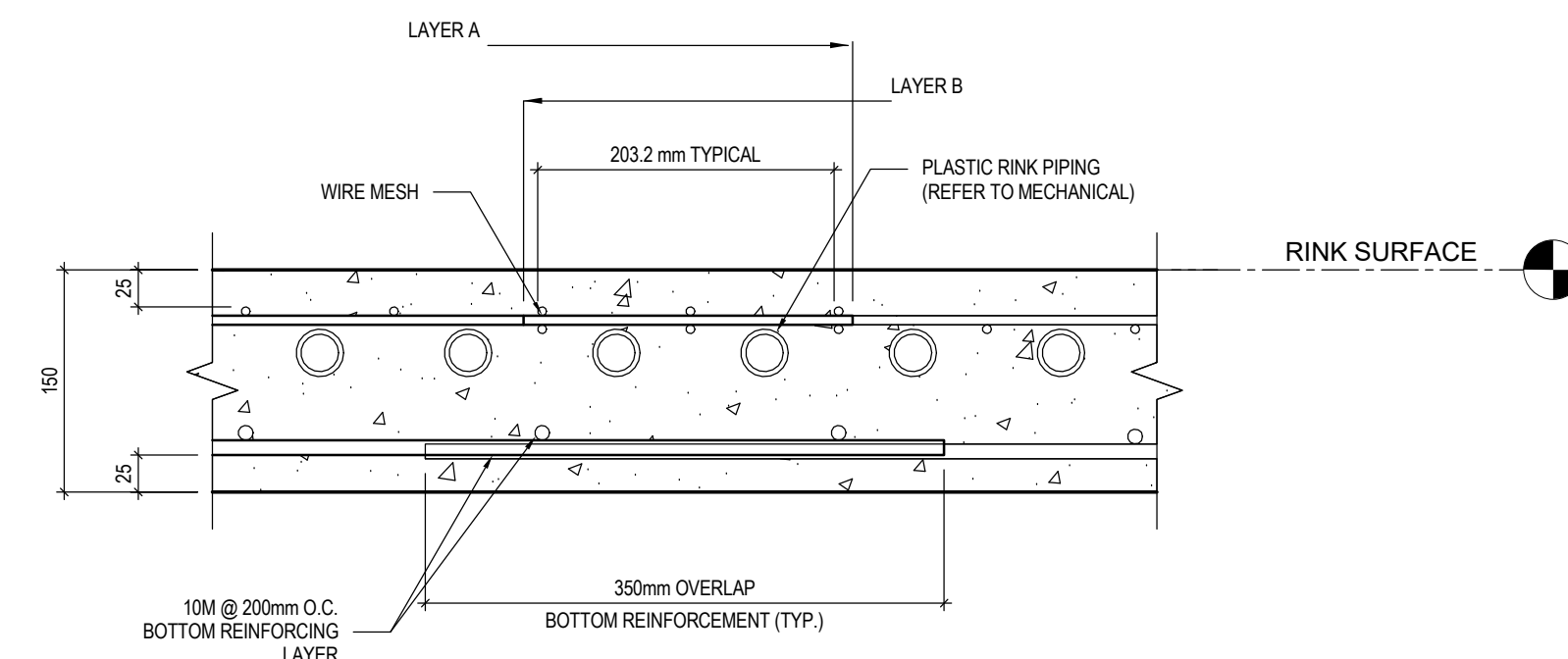
1 Layout - Typical Reinforcing Mesh Laps
A900 1:10



2 Section - Typical Longitudinal Top Lap
A900 1:5



3 Section - Typical Longitudinal Bottom Lap
A900 1:5



4 Section - Typical Cross Lap
A900 1:5

RINK SLAB GENERAL NOTES:

INDICATES SPLIT PANELS AT ALL REMOVABLE UPPER DASHER BOARD PANEL SECTIONS, EXCLUDING LOCATIONS WHERE ICE DAM OCCURS AND AT ALL GATES

NOTE: VERIFY LOCATION OF OPENINGS ON SITE

1. INSTALL INSERTS FOR RINK BOARDS, AND THRESHOLD PROVIDED BY RINK BOARD MANUFACTURER.

2. REFER TO NHL STANDARDS FOR ALL RINK MARKINGS, NET INSERTS. ALL PAINTED LINES N.I.C. SHOWN FOR REFERENCE ONLY.

3. CLOSE OFF BACKSIDE OF ALL DASHERBOARDS (SPECTATOR SIDE) WITH 10mm WHITE HDPE PUCKBOARD.

LP = LAYOUT POINT. MARK WITH FELT PEN "X", 75mm LONG EACH WAY ON CONCRETE SLAB

RP = REMOVABLE PANEL

DBD= DASHERBOARD DOOR



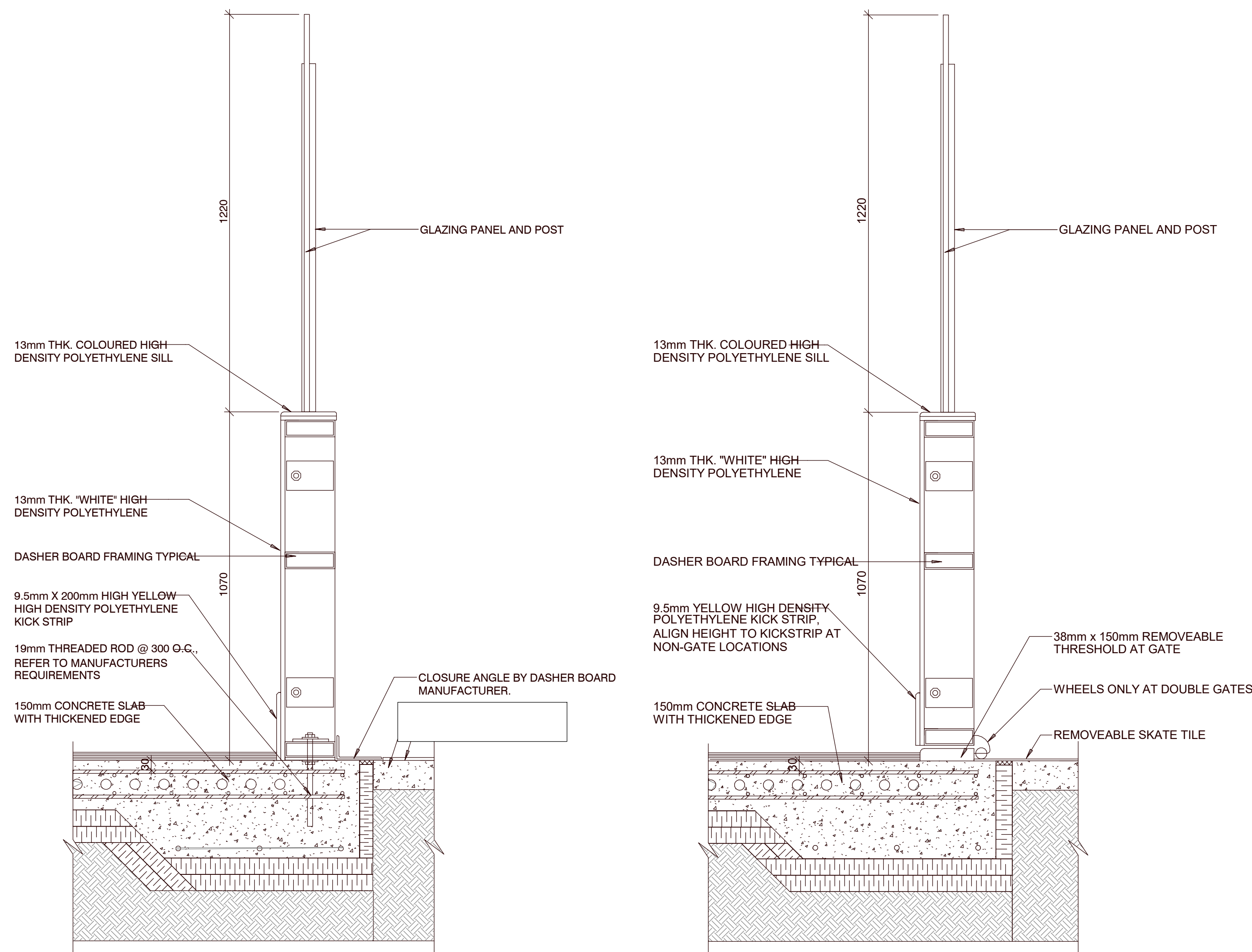
**NORTH GRENVILLE
POOL HOUSE**

DRAWING TITLE

**ICE RINK SLAB &
DASHER BOARD
DETAILS**

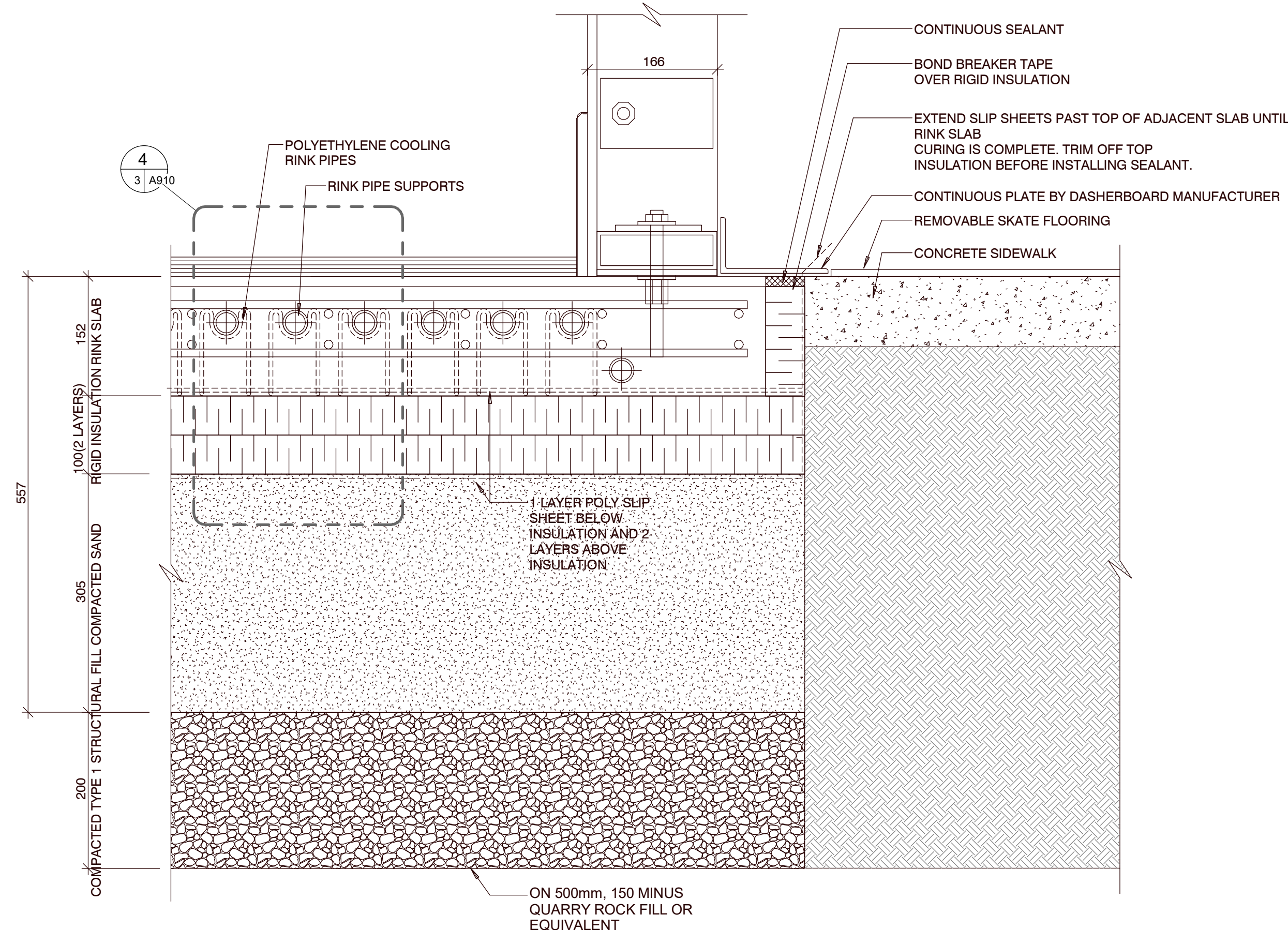
DRAWING NO.

A910

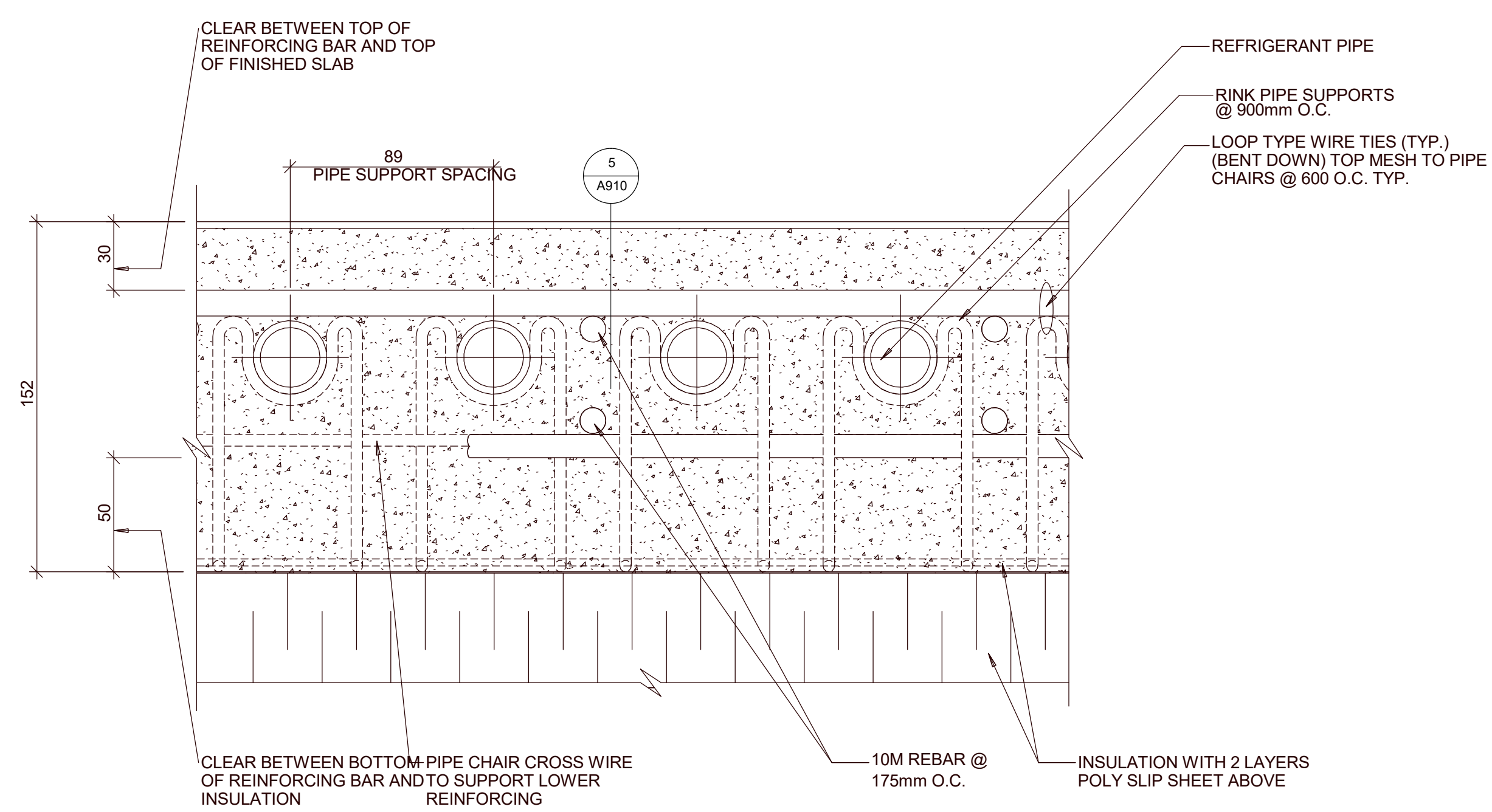


1 Typical Section Through Dasher Boards - Side
A910 1:10

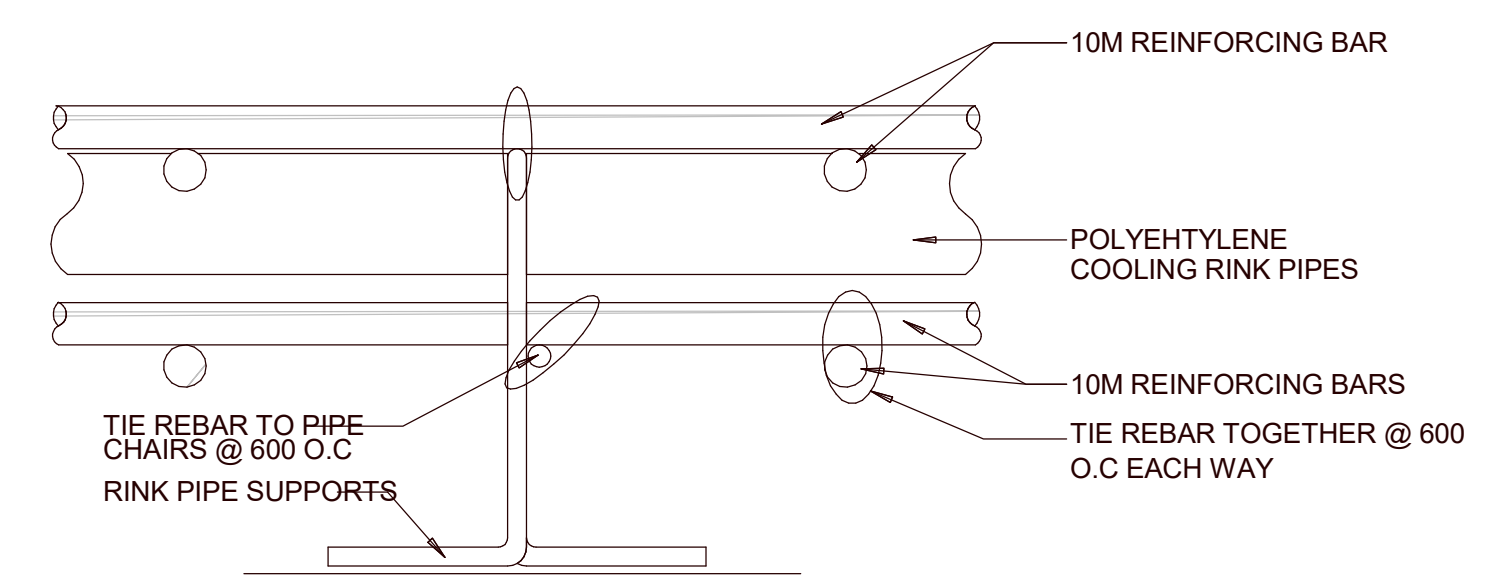
2 Typical Section At Threshold
A910 1:10



3 Typical Rink Slab To Adjacent Slab
A910 1:5



4 Typical Rink Slab Dimensions
A910 1:2



5 Rebar Tie Detail
A910 1:2



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CLIENT: MUNICIPALITY OF NORTH GRENVILLE

CLIENT REF. # --
PROJECT: NORTH GRENVILLE POOL HOUSE

KEY PLAN

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ISSUED FOR - REVISION

NO.	DATE	DESCRIPTION
1	2022-06-17	ISSUED FOR TENDER

PROJECT NO: 211-09894-00
DATE: JUNE 2022

ORIGINAL SCALE: 1:75
DESIGNED BY: P. MCKEE
DRAWN BY: C. GRAVELEY

CHECKED BY: P. MCKEE
DISCIPLINE: MECHANICAL

TITLE: PLUMBING SYSTEMS DOMESTIC WATER AND NATURAL GAS LAYOUT

SHEET NUMBER: M201
SHEET # 1 OF 7

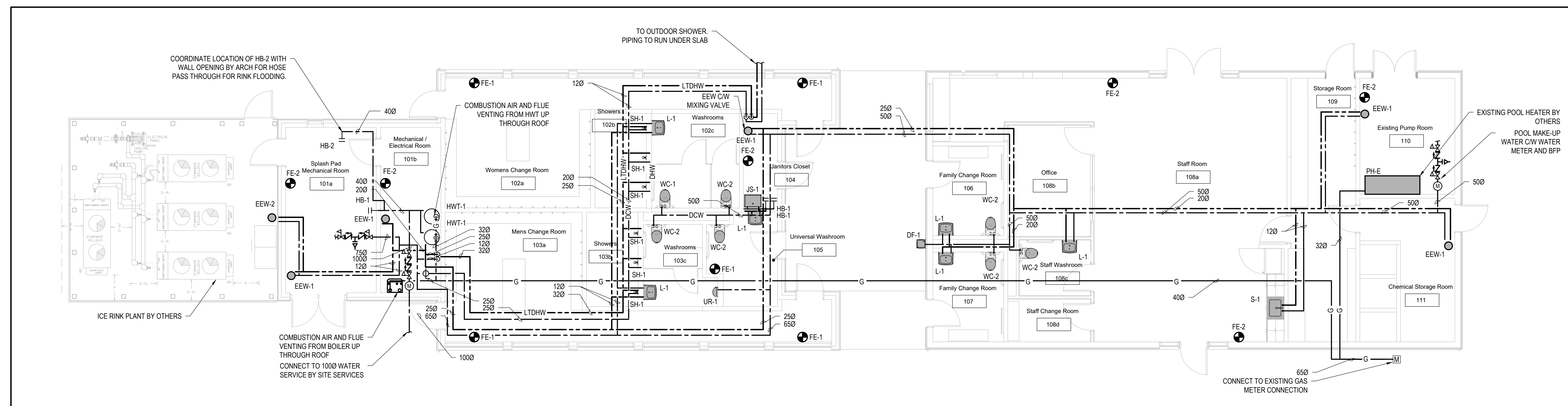
ISSUE: ISSUED FOR TENDER
DATE OF: 2022-06-17

REV # 0

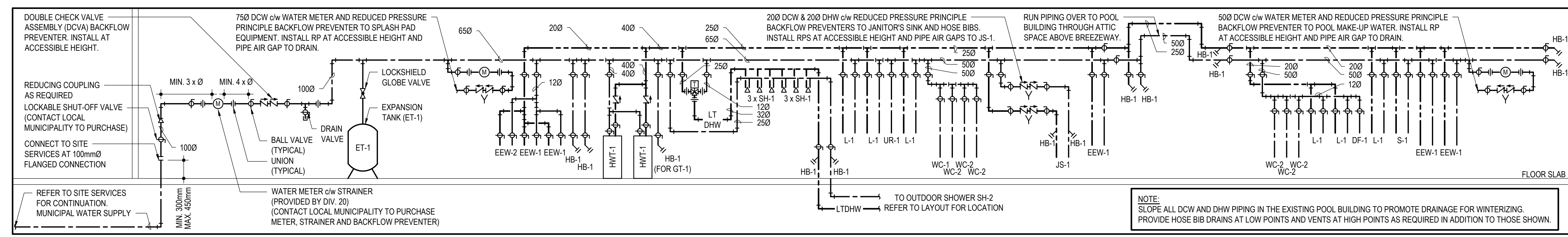
DRAINAGE & PLUMBING SYSTEMS - LEGEND

—	DOMESTIC COLD WATER PIPING	EEW*	EMERGENCY EYEWASH c/w TEMPERING VALVE
—	DOMESTIC HOT WATER PIPING	WC*	WATER CLOSET
- - -	LOW TEMPERATURE DOMESTIC HOT WATER PIPING	L*	LAVATORY
—	SAN	UR*	URINAL
—	SAN	S*	SINK
—	SAN	SH*	SHOWER
—	VENT PIPING	HWT*	HOT WATER TANK
—	VENT PIPING BELOW SLAB OR GRADE	BLR*	BOILER
—	CLEANOUT (PROVIDE ACCESS AT FLOOR SURFACE)	ET*	EXPANSION TANK
—	NATURAL GAS PIPING	JS*	JANITOR'S SINK
—	SANITARY TRAP	HB-1	200 HOSE BIB
—	PIPE UP TO ABOVE	HB-2	400 HOSE BIB
—	PIPE DOWN TO BELOW	FD*	FLOOR DRAIN
—	PIPE CONNECTION TO BELOW	DF*	DRINKING FOUNTAIN
—	REDUCER	WHA*	WATER HAMMER ARRESTOR
—	UNION	P*	PUMP
—	BUTTERFLY VALVE	EF*	EXHAUST FAN
—	BALL VALVE	—	VENT THROUGH ROOF (VTR)
—	CHECK VALVE	—	WATER METER
—	DOUBLE CHECK VALVE ASSEMBLY (DCVA) BACKFLOW PREVENTER	—	NATURAL GAS METER
—	REDUCED PRESSURE PRINCIPLE (RP) BACKFLOW PREVENTER	—	DRAINAGE FIXTURE UNIT
—	FIRE EXTINGUISHER		

* - TYPE AS SPECIFIED



DOMESTIC WATER GROUND FLOOR PLAN
SCALE: 1:75



1 WATER ENTRANCE DETAIL AND RISER
SCALE: N.T.S.

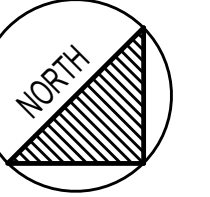
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CONSULTANT:

SEAL:



CLIENT:

MUNICIPALITY OF NORTH GRENVILLE

CLIENT REF. # --

PROJECT:

NORTH GRENVILLE
POOL HOUSE

KEY PLAN:

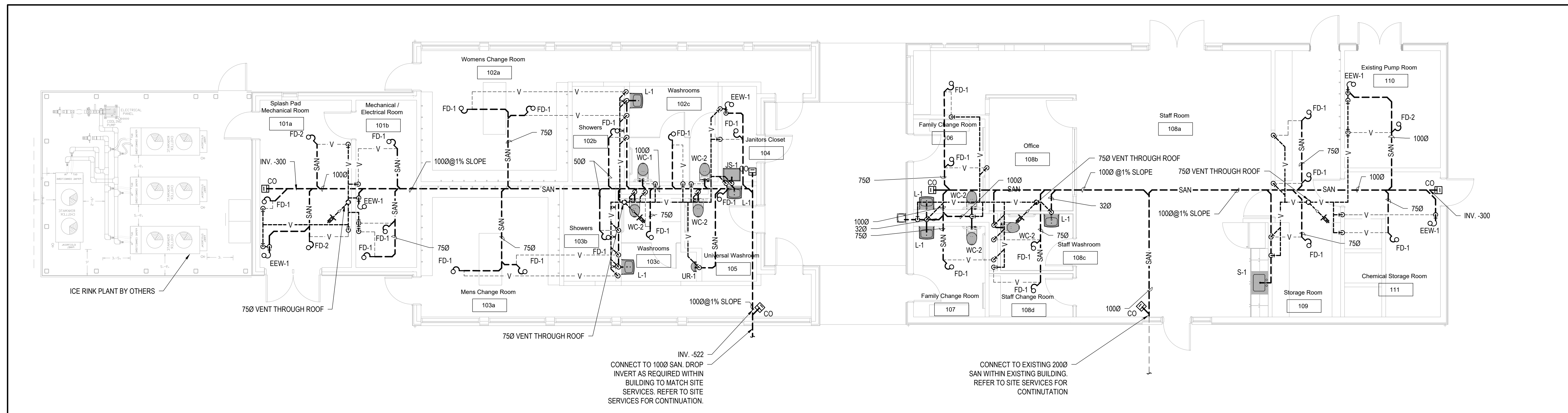
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ISSUED FOR REVISION:

NO.	DATE	DESCRIPTION
1	2022-06-17	ISSUED FOR TENDER

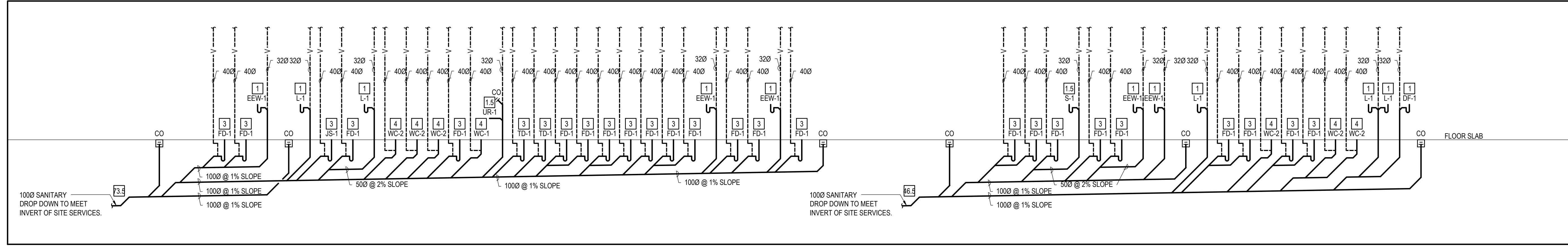
PROJECT NO:	211-09894-00	DATE:	JUNE 2022
DESIGNED BY:	P. MCKEE	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DRAWN BY:	C. GRAVELEY		
CHECKED BY:	P. MCKEE	25mm	

DISCIPLINE:	MECHANICAL
TITLE:	PLUMBING SYSTEMS SANITARY DRAINAGE LAYOUT
SHEET NUMBER:	M202
SHEET #:	2 OF 7
ISSUE:	ISSUED FOR TENDER
DATE OF:	2022-06-17
REV #:	0



SANITARY GROUND FLOOR PLAN

SCALE: 1:75



1 SANITARY RISER

SCALE: N.T.S.

CONTRACT DRAWINGS
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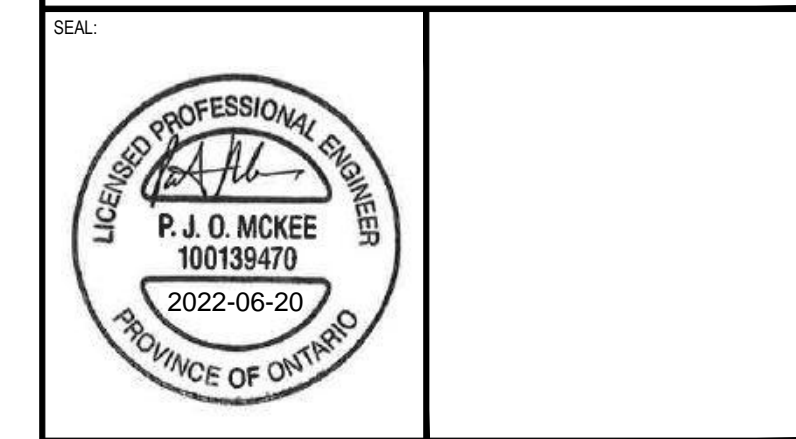
M2021-211-09894-00 - Riverside Park Outdoor Pool Project 14.0 Tech. Plot Services 14.00 Mechanical/NSPH, MECH.dwg, Jun. 20, 2022, 11:58am BY: (CA507549)



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MUNICIPALITY OF NORTH GRENVILLE

CLIENT REF. #

PROJECT:

NORTH GRENVILLE

POOL HOUSE

KEY PLAN

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NO.	DATE	DESCRIPTION
1	2022-06-17	ISSUED FOR TENDER

PROJECT NO:

211-09894-00

DATE: JUNE 2022

ORIGINAL SCALE: AS INDICATED

DESIGNED BY: P. MCKEE

DRAWN BY: C. GRAVELEY

CHECKED BY: P. MCKEE

DISCIPLINE: MECHANICAL

TITLE: PLUMBING SYSTEMS DETAILS AND SCHEDULES

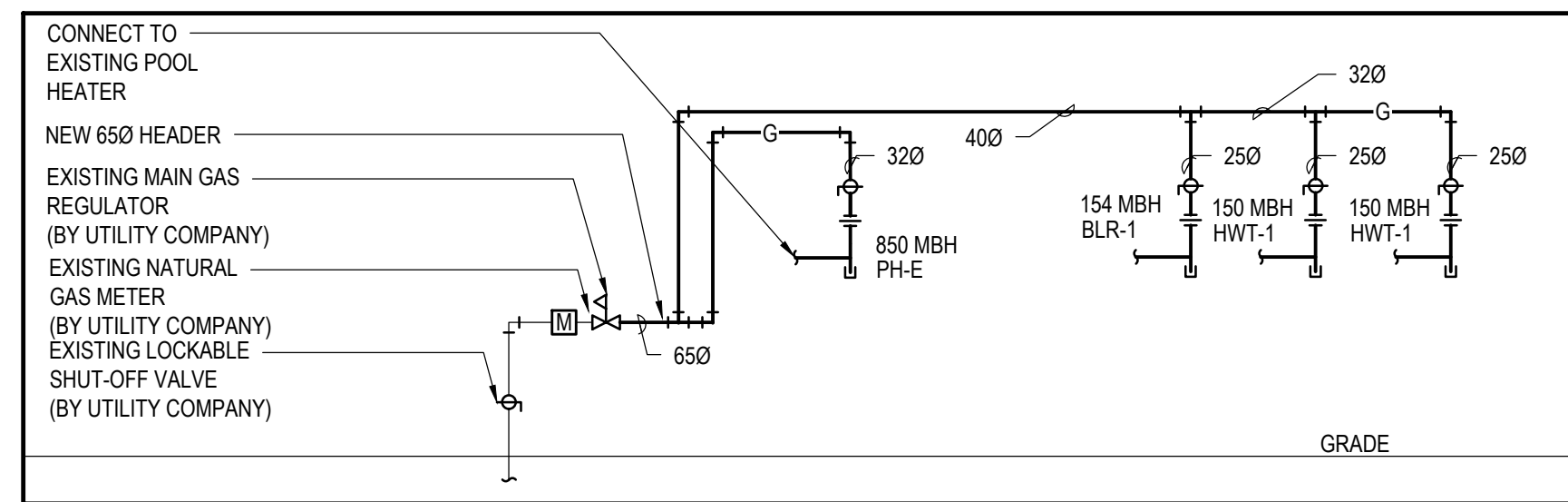
SHEET NUMBER: M203

ISSUE: 3 OF 7

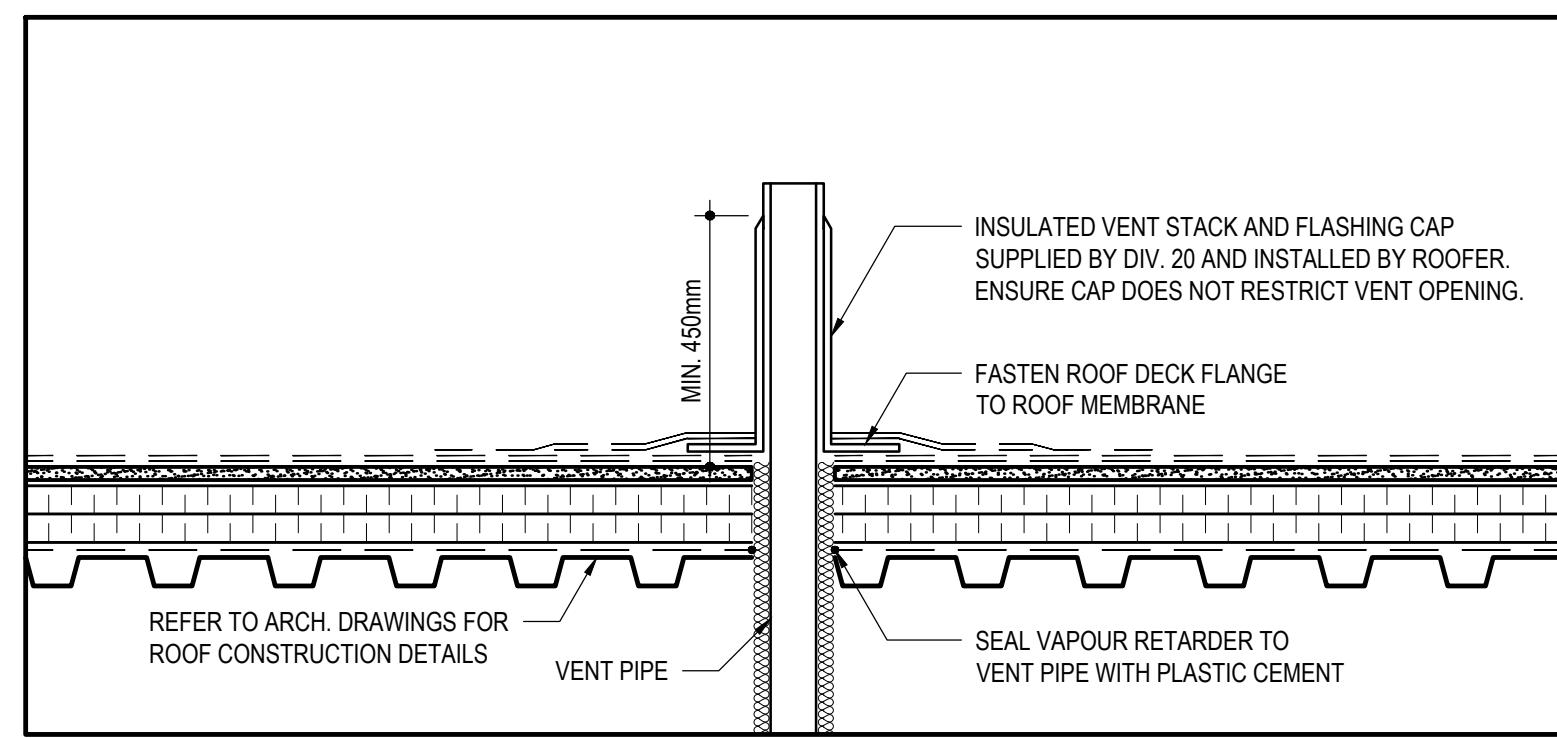
ISSUED FOR TENDER

DATE OF: 2022-06-17

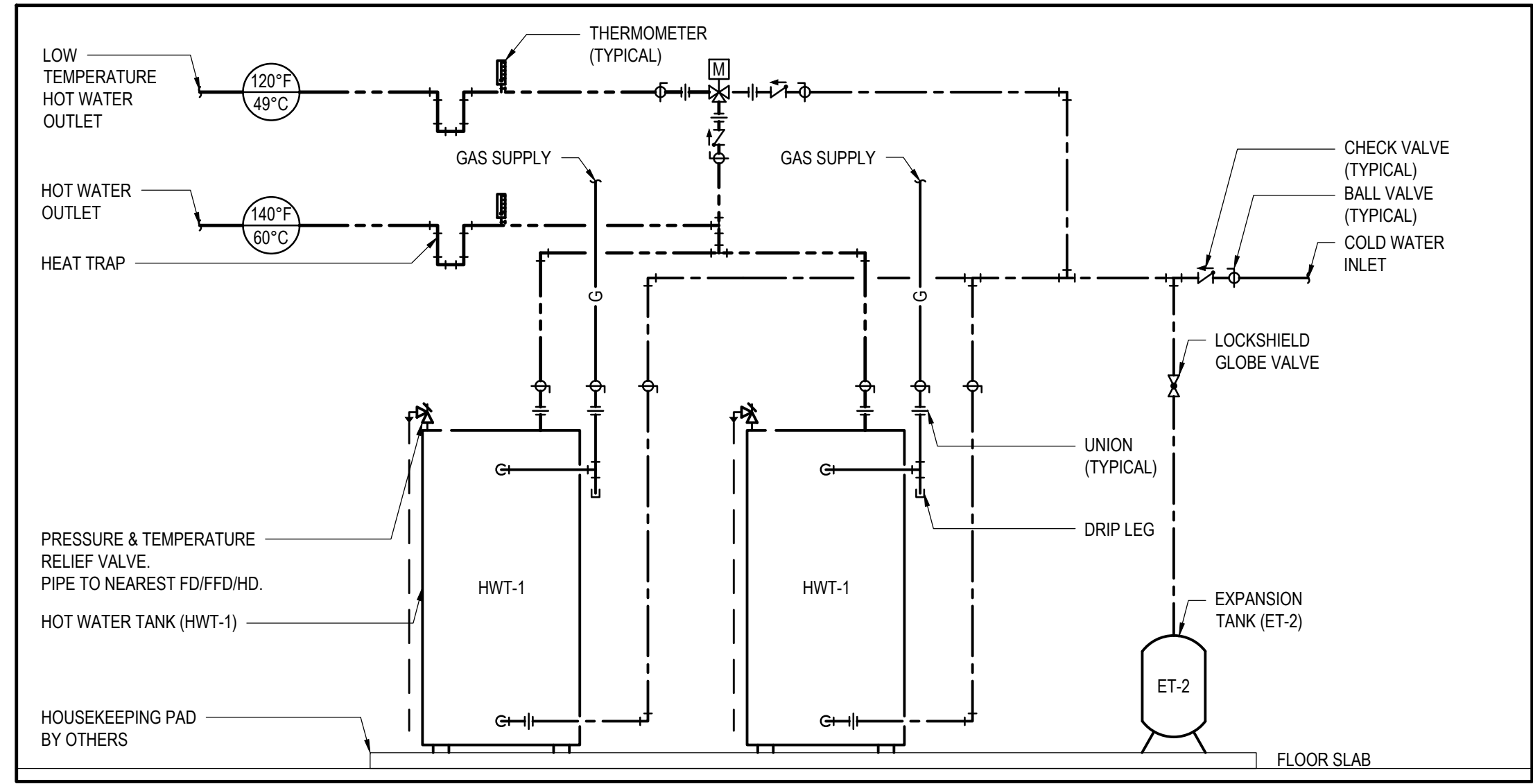
REV # 0



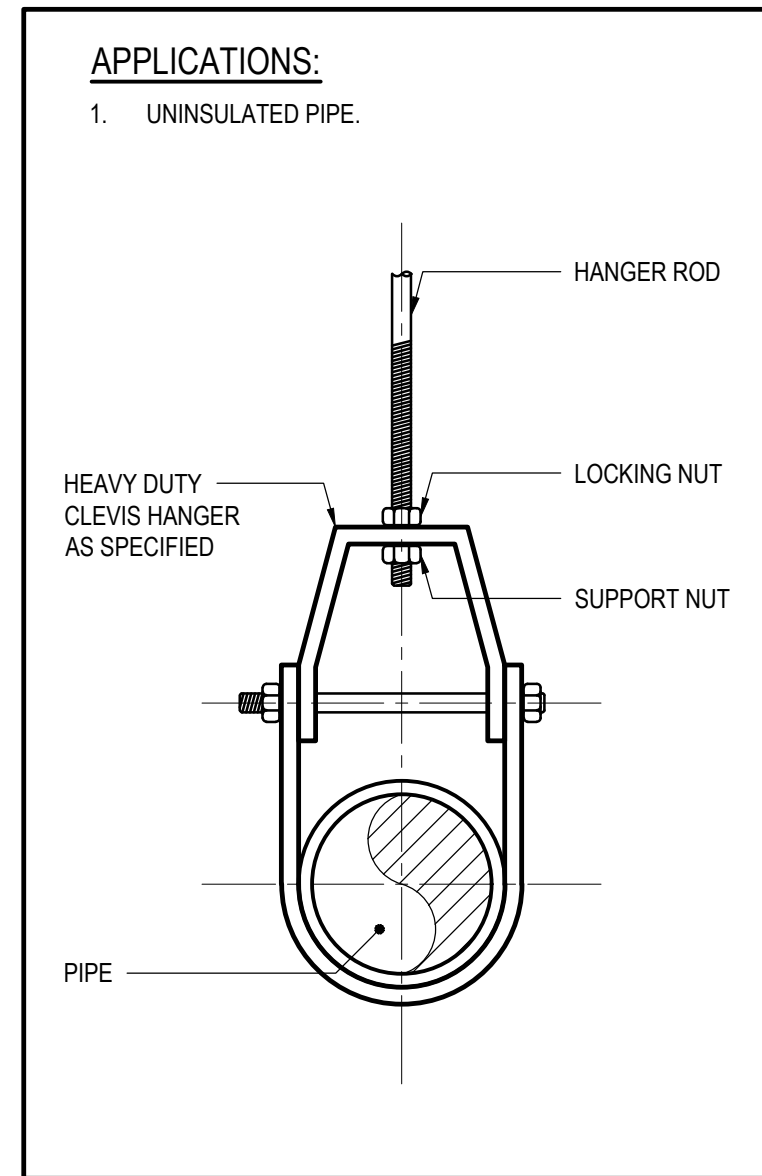
2 NATURAL GAS SERVICE REVISION SCHEMATIC
SCALE: N.T.S.



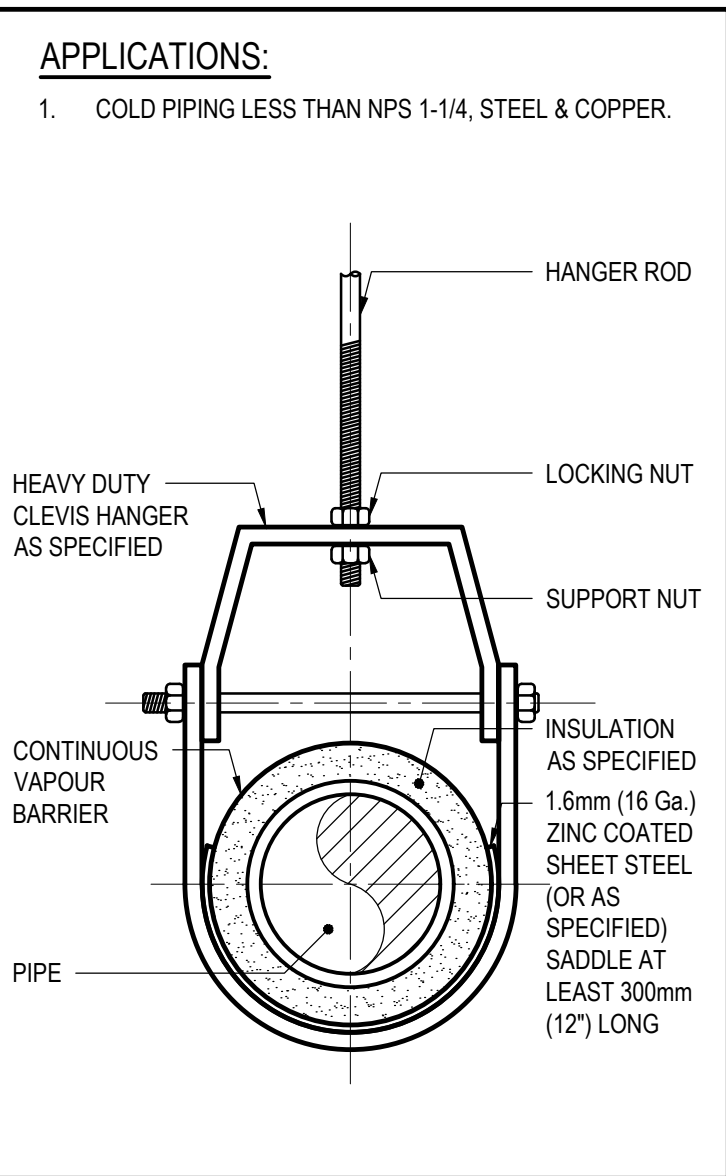
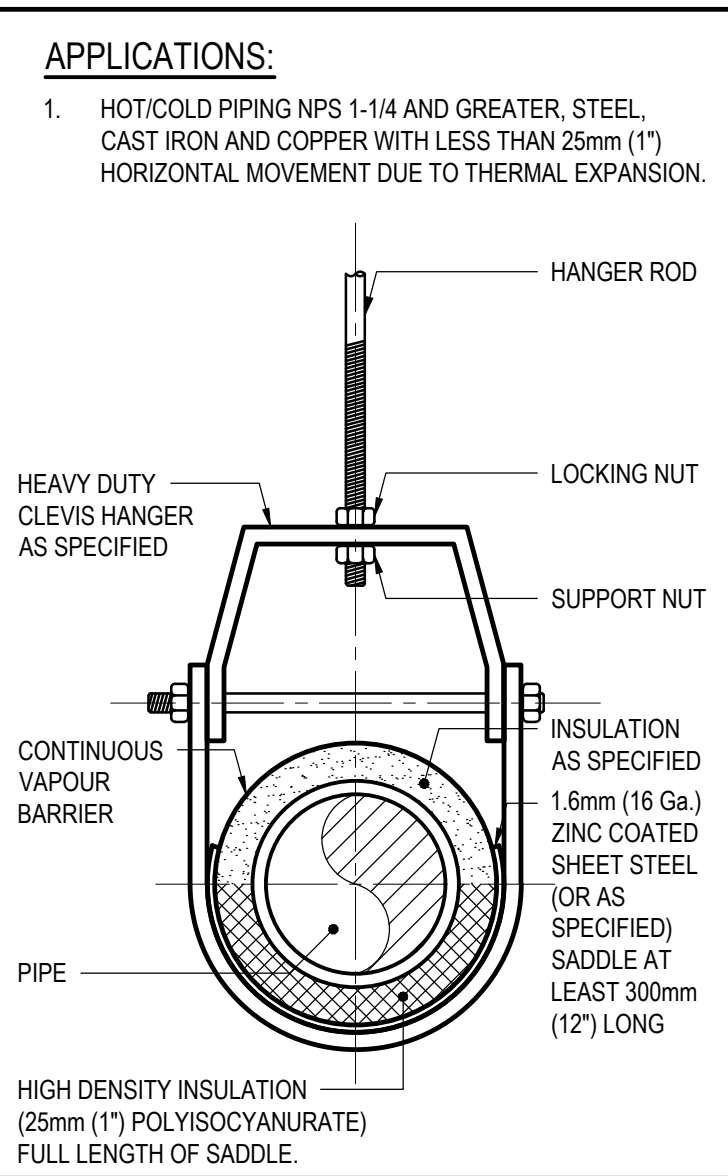
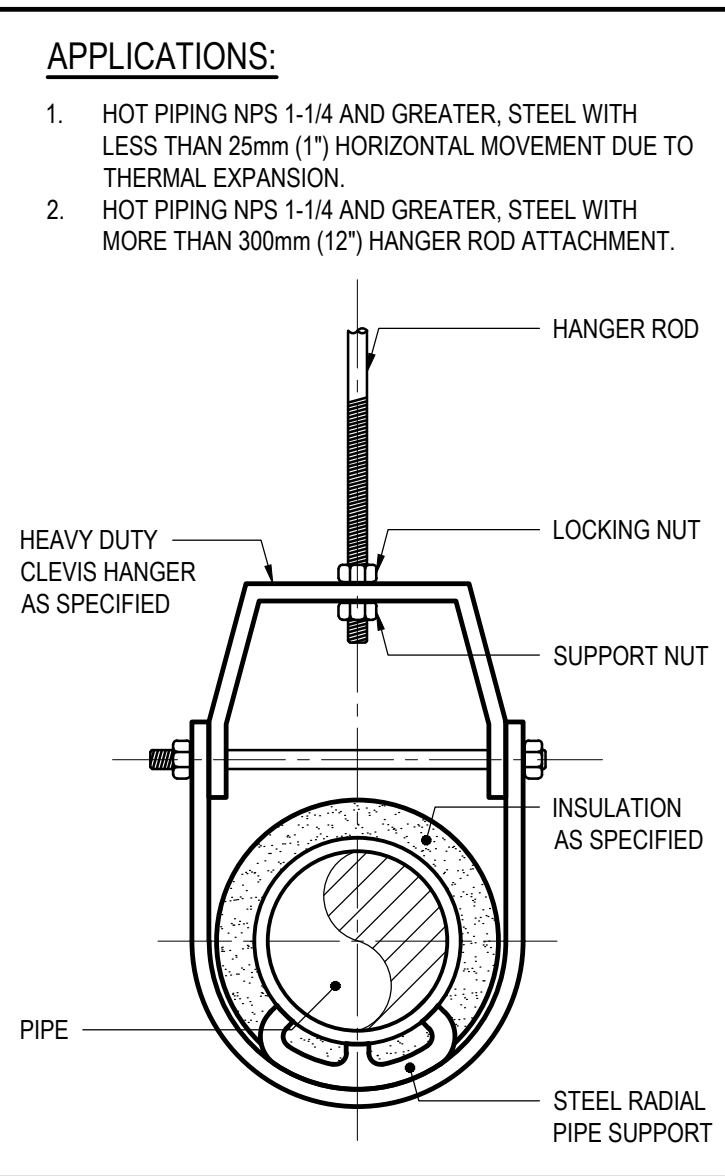
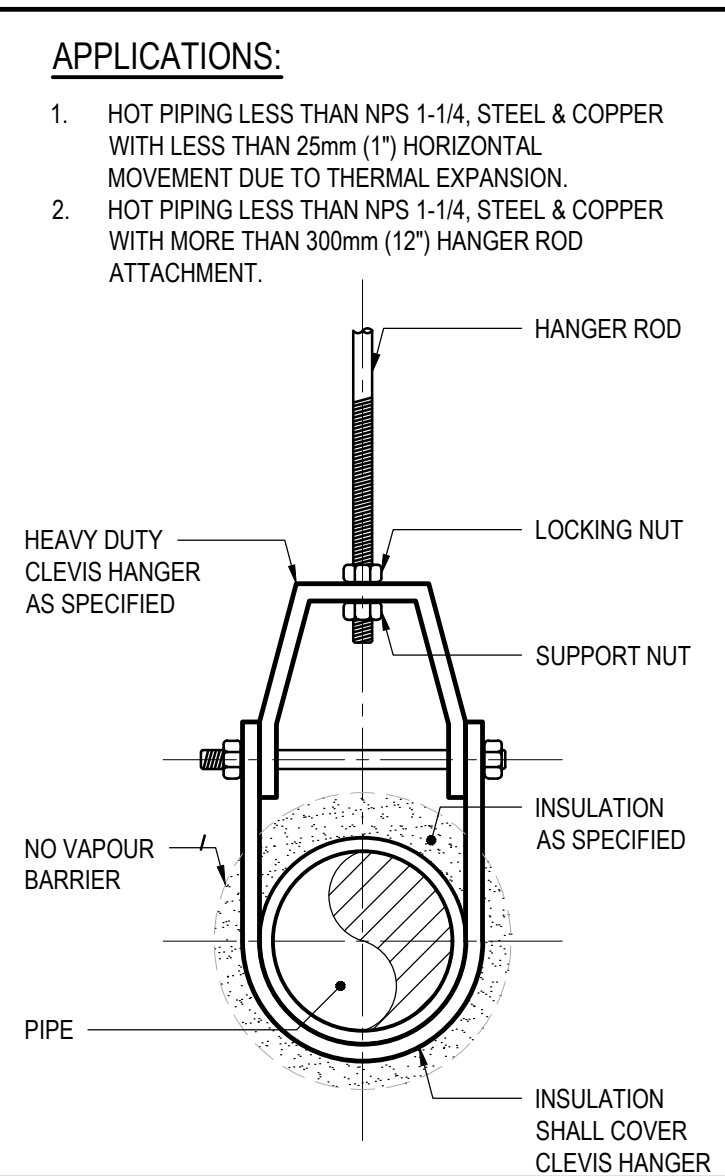
3 TYPICAL PLUMBING VENT DETAIL
SCALE: N.T.S.



1 DOMESTIC HOT WATER PIPING SCHEMATIC
SCALE: N.T.S.



4 TYPICAL PIPE SUPPORT DETAILS
SCALE: N.T.S.



NOTE: REFER TO SEISMIC SPECIFICATION FOR ADDITIONAL BRACING REQUIREMENTS NOT SHOWN ON THIS PIPE DETAIL DRAWING.

TAG	SERVICE	MANUFACTURER	MODEL No.	TANK VOLUME	ACCEPTANCE VOLUME	DIAMETER	HEIGHT
				L US GAL.	L US GAL.	mm in.	mm in.
ET-1	DOMESTIC COLD WATER	AMTROL	THERM-X-TROL ST-5	7.6 2.0	3.4 0.9	203 8	330 13
ET-2	DOMESTIC HOT WATER	AMTROL	THERM-X-TROL ST-12	20.0 4.4	14.5 3.2	279 11	381 15

TAG	SERVICE	MANUFACTURER	MODEL No.	TANK VOLUME	NATURAL GAS INPUT	DIAMETER	HEIGHT
				L US GAL.	kw BTU/h	mm in.	mm in.
HWT-1	DOMESTIC HOT WATER	JOHN WOOD	6G50100NPDVH02	189 50	29.3 100.000	560 22	1700 66.75

FIXTURE	TAG	COLD	HOT	WASTE*	VENT**
LAVATORY	L-	120	120	320	320
SINK	S-	120	120	400	320
SHOWER	SH-	120	120	500	400
WATER CLOSET	WC-	200	-	1000	400
DRINKING FOUNTAIN	DF-	100	-	320	320
FLOOR DRAIN	FD-1	-	-	750	400
FLOOR DRAIN	FD-2	-	-	1000	400
EMERGENCY EYE WASH	EEW-	200	200	400	320
HOSE BIBB (20mm)	HB-1	200	-	-	-
HOSE BIBB (40mm)	HB-2	400	-	-	-

TYPE	RATING (PDI)	SIZE
WHA-A	A1-11	120
WHA-B	B12-32	200
WHA-C	C33-60	250
WHA-D	C61-113	320

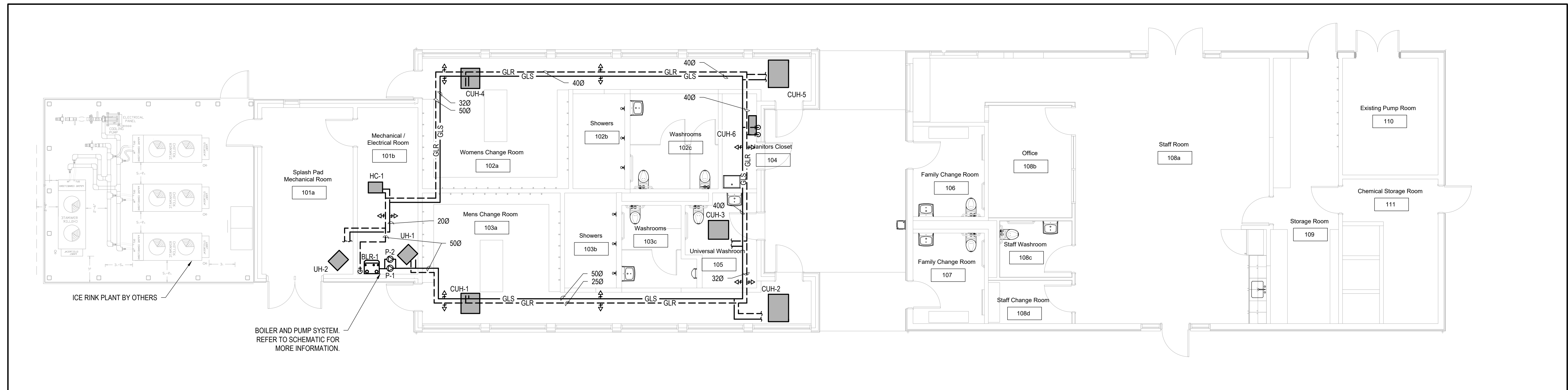
NOTES:
* - UNLESS OTHERWISE INDICATED
** - UNLESS OTHERWISE INDICATED

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HYDRONIC SYSTEMS - LEGEND

GLS	GLYCOL SUPPLY PIPING	HC*	HEATING COIL
GLR	GLYCOL RETURN PIPING	BLR*	BOILER
—	PIPE UP TO ABOVE	BP*	BOILER PUMP
—	PIPE DOWN TO BELOW	HP*	HEATING PUMP
—	UNION	AS*	AIR SEPARATOR
—	CIRCUIT BALANCING VALVE	ET*	EXPANSION TANK
—	BUTTERFLY VALVE	ERV*	ENERGY RECOVERY VENTILATOR
—	CHECK VALVE	GT*	GLYCOL FILL TANK
—	WATER METER	FF*	FORCE FLOW HEATER
—	PUMP	UH*	UNIT HEATER
—	3-WAY MIXING VALVE	HC*	HEATING COIL
—	PRESSURE RELIEF	(A)	FLOW INDICATOR
—	PRESSURE REDUCING VALVE	(B)	A - FLOW RATE (USGPM)
—	AUTOMATIC AIR VENT	(F)	B - FLOW RATE (L/s)
—	TEMPERATURE SENSOR C/W IMMERSION WELL	(°F)	TEMPERATURE INDICATOR
—	THERMOMETER	(°C)	*F - FAHRENHEIT
—	PRESSURE GAUGE		*C - CELSIUS
—	HOSE BIB (DRAIN)		CONTROL ASSOCIATION

* - TYPE AS SPECIFIED



HYDRONIC SYSTEMS LAYOUT
SCALE: 1:75

CONTRACT DRAWINGS
CONTRACT DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC.
INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT
FOR MECHANICAL SYSTEMS AND EQUIPMENT. CONTRACTOR TO COORDINATE
LAYOUT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL,
AND ELECTRICAL BUILDING COMPONENTS, AS WELL AS OTHER MECHANICAL
SYSTEMS. PROVIDE ADDITIONAL PIPING, DUCTING, FITTINGS, SUPPORTS,
ETC., REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING
FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.



CONSULTANT:

SEAL:

CLIENT:
MUNICIPALITY OF NORTH GRENVILLE

CLIENT REF. # --
PROJECT:
**NORTH GRENVILLE
POOL HOUSE**

KEY PLAN

DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

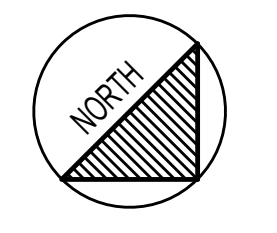
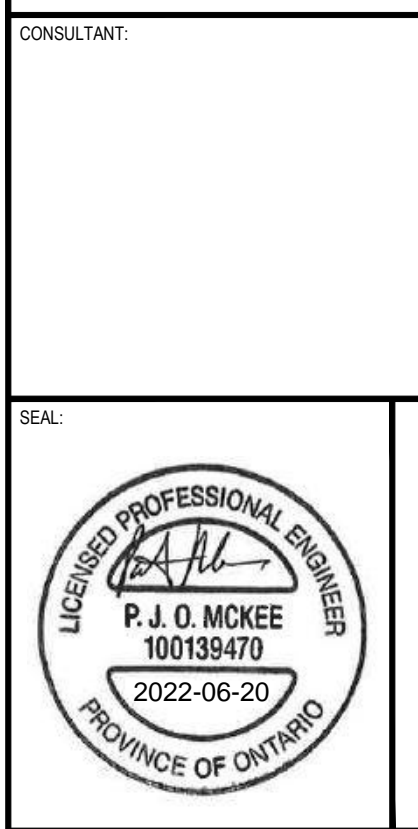
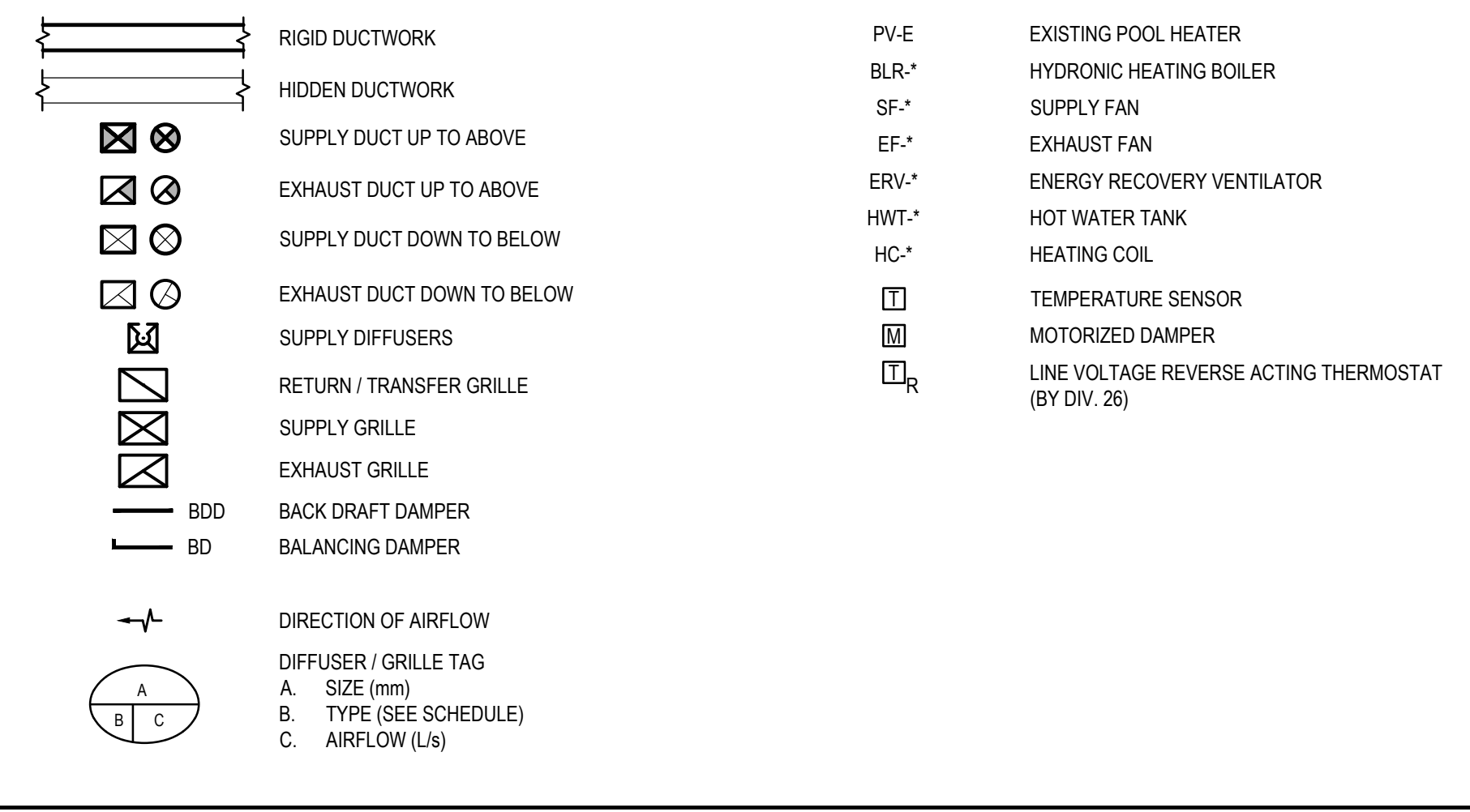
NO.	DATE	DESCRIPTION
1	2022-06-17	ISSUED FOR TENDER

PROJECT NO:	211-09894-00	DATE:	JUNE 2022
ORIGINAL SCALE:	1:75	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	P. MCKEE		
DRAWN BY:	C. GRAVELEY		
CHECKED BY:	P. MCKEE		
DISCIPLINE:	MECHANICAL		

TITLE:	HYDRONIC HEATING SYSTEMS LAYOUT		
SHEET NUMBER:	M301		
ISSUE:	4	OF	7
ISSUED FOR TENDER			0
DATE OF:	2022-06-17		

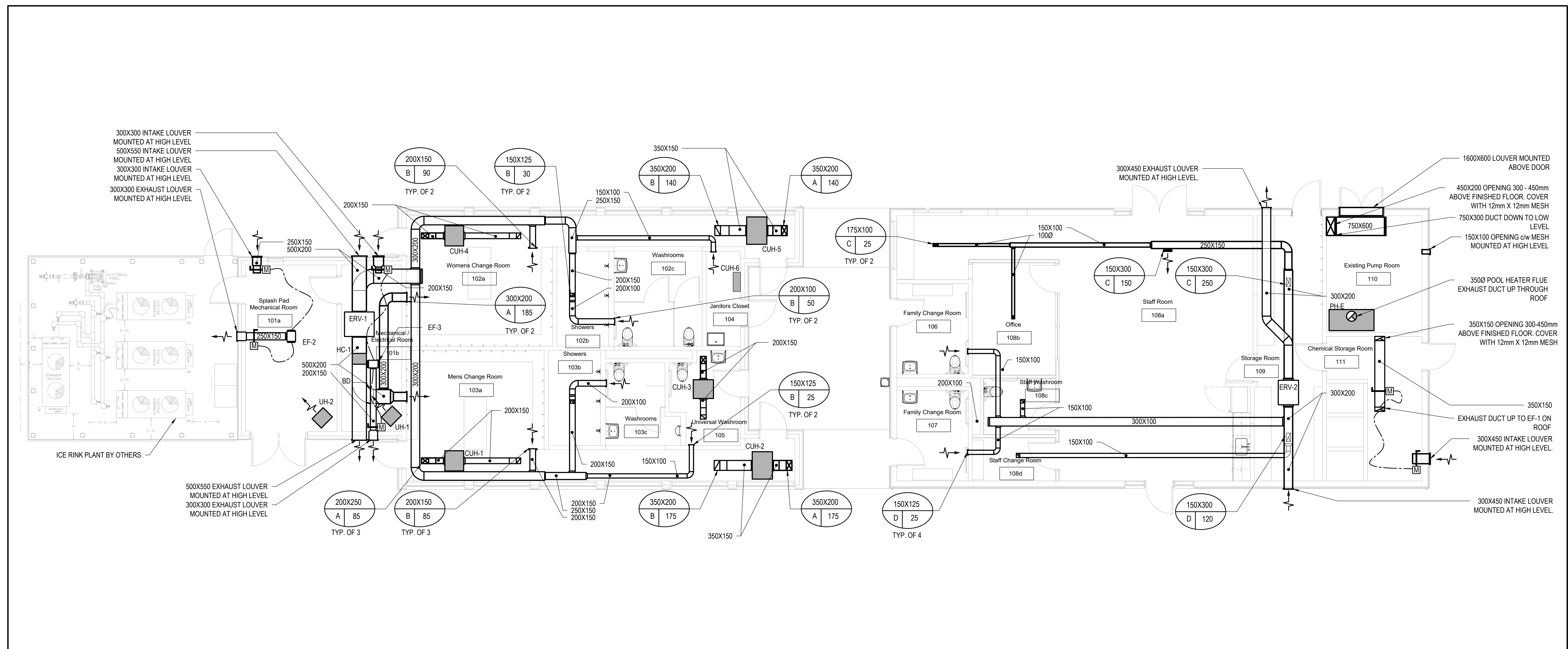
M:\2021\211-09894-00 - Riverside Park Outdoor Play Project\14.0 Tech_Plan Services\14.00 Mechanical\NSPH_MECH.dwg, Jun 20, 2022, 11:58am BY: (CALG07456)

HVAC SYSTEMS - LEGEND



MUNICIPALITY OF NORTH GRENVILLE

NORTH GRENVILLE POOL HOUSE



HVAC SYSTEMS LAYOUT
SCALE: 1:75

CONTRACT DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC. INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR MECHANICAL SYSTEMS AND EQUIPMENT. CONTRACTOR TO COORDINATE LAYOUT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL BUILDING COMPONENTS, AS WELL AS OTHER MECHANICAL SYSTEMS. PROVIDE ADDITIONAL PIPING, DUCTING, FITTINGS, SUPPORTS, ETC., REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.

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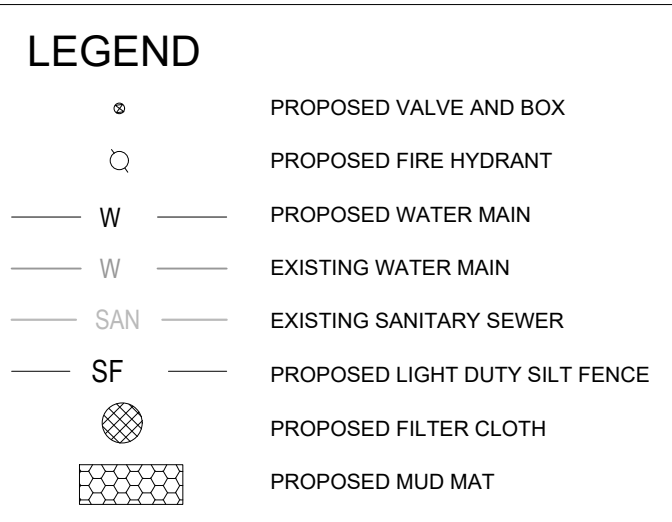
IS	RE	DATE	DESCRIPTION
1		2022-06-17	ISSUED FOR TENDER

PROJECT NO:	211-09894-00	DATE:	JUNE 2022
ORIGINAL SCALE:	1:75	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	P. MCKEE		
DRAWN BY:	C. GRAVELEY		
CHECKED BY:	P. MCKEE		

DISCIPLINE:	MECHANICAL
TITLE:	HVAC SYSTEMS LAYOUT
SHEET NUMBER:	M401
SHEET #:	6 OF 7
ISSUE:	ISSUED FOR TENDER
DATE OF:	2022-06-17
REV #:	0

M:2021-211-09894-00 - Riverside Park Outdoor Pool Project 14.0 Tech Plot Services 14.00 Mechanical/ASHH, MECH.dwg, Jun 20, 2022, 11:38am BY: (CAG5075498)

- NOTES:
- BASEPLAN ORIGINATED AS A PDF, AS SUCH SCALING AND OTHER DISCREPANCIES MAY EXIST
 - EXISTING WATER, SANITARY, AND STORM PIPES WERE DRAWN IN BASED ON BEST APPROXIMATION FROM THE AVAILABLE DATA. DISCREPANCIES MAY EXIST.
 - ALL EXISTING WATER, SANITARY, AND STORM INFRASTRUCTURE TO BE IDENTIFIED ON SITE PRIOR TO INSTALLATION OF CONNECTIONS OR CROSSINGS WITHIN THEIR PROXIMITY.



WATERMAIN SCHEDULE		
STATION	DESC	TOP OF GROUND TOP OF WM
0+000	CONNECTION TO EXISTING FH LEAD	88.28
0+001.7	150mm VB	90.97 88.27
0+004.7	22.5 DEGREE BEND	90.99 88.29
0+008.1	45 DEGREE BEND	91.02 88.32
0+009.1	25 SERVICE CONNECTION TO 19 REUBEN CR.	91.05 88.35
0+031.8	25 SERVICE CONNECTION TO 21 REUBEN CR.	91.70 89.00
0+055.7	22.5 DEGREE EBND	92.59 89.89
0+060.2	25mm SERVICE CONNECTION TO ARMORY BUILDING	92.70 90.00
0+075.3	45 DEGREE BEND	93.12 90.42
0+085.5	45 DEGREE BEND	93.09 90.39
0+102.3	22.5 DEGREE BEND	93.27 90.57
0+110.8	150mm VB	93.30 90.60
0+114.4	100mm SERVICE CONNECTION TO THE PROPOSED POOL HOUSE	93.30 90.60
0+116.2	25mm SERVICE CONNECTION TO LEGION BUILDING	93.35 90.65
0+136.3	CONNECTION TO PROPOSED FH LEAD	93.51 90.81
0+137.4	CAPPED END	93.51 90.81

STATION	DESC	TOP OF GROUND TOP OF WM
1+000	CONNECTION TO PROPOSED 150mm WM	93.30 90.60
1+000.6	100mm VB	93.30 90.60
1+057.8	CURB STOP AND SERVICE POST	93.30 90.60
1+060.9	CAPPED END AT PROPOSED POOL HOUSE	93.20 90.50

STANDARD SPECIFICATIONS - ONTARIO PROVINCIAL STANDARD SPECIFICATION (OPSS)

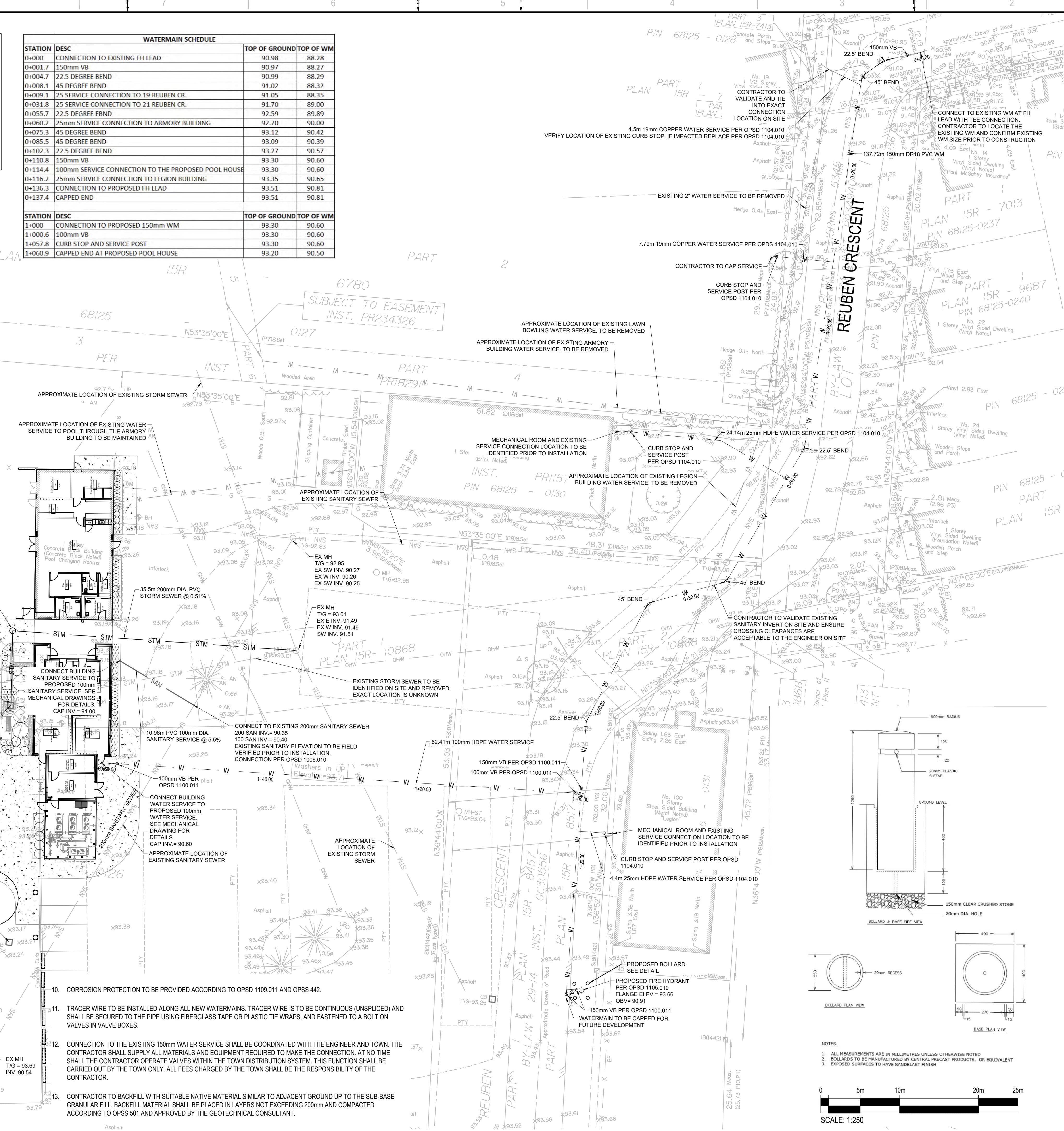
NO.	TITLE
MUNI 402	CONSTRUCTION SPECIFICATION FOR EXCAVATING, BACKFILLING AND COMPACTING FOR MHS, CBS, DIS AND VALVE CHAMBERS
MUNI 407	CONSTRUCTION SPECIFICATION FOR MH, CB, DI, AND VALVE CHAMBER INSTALLATION
MUNI 408	CONSTRUCTION SPECIFICATION FOR ADJUSTING OR REBUILDING MHS, CBS, DIS, AND VALVE CHAMBERS
MUNI 410	CONSTRUCTION SPECIFICATION FOR PIPE SEWER INSTALLATION IN OPEN CUT
MUNI 412	CONSTRUCTION SPECIFICATION FOR CORROSION PROTECTION OF NEW AND EXISTING WATERMANS
MUNI 510	CONSTRUCTION SPECIFICATION FOR REMOVAL

STANDARD DRAWINGS - ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD)

NO.	TITLE
1104.01	WATER SERVICE CONNECTION, 19mm AND 25mm DIAMETER SIZES
1105.01	HYDRANT INSTALLATION
1109.01	CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS
701.01	PRECAST CONCRETE MAINTENANCE HOLE, 1200mm DIAMETER
1100.01	CAST IN PLACE CHAMBER, FOR VALVES UP TO 350mm DIAMETER

- SEWER NOTES**
- CONSTRUCT SEWERS AND APPURTENANCES AS PER MINISTRY OF THE ENVIRONMENT STANDARDS. CONFIRM EXISTING TIE IN ELEVATIONS PRIOR TO CONSTRUCTION. SEWER TRENCH SHALL INCLUDE BEDDING AS PER OPSD 802.010. COMPACTION TO BE A MINIMUM OF 95% SPMD FOR PIPE AND DRAINAGE STRUCTURE BEDDING AND BACKFILL. GRANULAR BEDDING AND COVER DEPTHS TO BE 300mm AND 300mm RESPECTIVELY. USE VIRGIN GRANULAR A MATERIAL, PLACED IN MAXIMUM 150mm THICK LIFTS.
 - PVC STORM SEWERS AND CATCH BASIN LEADS TO BE PVC DR 35 CERTIFIED TO CAN/CSA-B182.2.
 - PROVIDE FLEXIBLE BOOT CONNECTION FOR ALL PVC SEWER CONNECTIONS AT MANHOLES.
 - STORM CATCHBASINS (CB) TO BE AS PER OPSD 705.010 WITH FRAMES AND ROUND GRATE AS PER OPSD 400.070. SUMP TO BE 600mm.
 - SEWERS AND SERVICES SHALL BE CONSTRUCTED WITH A MINIMUM CLEARANCE OF 2.0m FROM TREES AND UTILITY PLANT.
 - ALL MANHOLES TO BE 1200mm DIA. AS PER OPSD 701.010 EXCEPT AS NOTED BELOW. STORM MANHOLES TO HAVE 300mm MINIMUM SUMP BELOW LOW INVERT. SANITARY MANHOLES TO BE BENCH AS PER OPSD 701.021.
 - CBMH FRAMES AND ROUND GRATES AS PER OPSD 400.070. SANITARY MANHOLES TO HAVE FRAME AND COVER AS PER TYPE A, OPSD 401.010. STORM MANHOLE TO HAVE TYPE B COVER AND FRAME AS PER OPSD 401.010.
 - PROVIDE CAMERA INSPECTION OF ALL SEWERS FOLLOWING COMPLETION OF CONSTRUCTION AND PROVIDE TO ENGINEER. MAINTAIN SEWERS IN CLEAN CONDITION UNTIL OWNER ACCEPTANCE.
 - COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE DYE TEST CERTIFIED BY PROFESSIONAL ENGINEER (RETAINED BY CONTRACTOR) ON BUILDING STORM AND SANITARY SEWER SERVICES TO CONFIRM THAT NO CROSS CONNECTIONS OCCUR ON WORKS BEING CONSTRUCTED IN THIS CONTRACT.

- WATERMAIN NOTES:**
- THE CONTRACTOR SHALL CONFIRM THE LOCATION, ELEVATION, SIZE, AND TYPE OF THE EXISTING WATERMAIN WITHIN THE WORK AREA PRIOR TO CONNECTION. THE CONTRACTOR SHALL PREPARE AND SUBMIT A DETAILED PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING FITTINGS. THE PLAN SHALL DETAIL THE TYPE, MAKE AND LOCATION OF ALL PROPOSED FITTINGS, RESTRAINTS AND ASSOCIATED APPURTENANCES. THE PLAN SHALL ALSO DETAIL THE PROPOSED DISINFECTION PROCEDURES, SEQUENCING AND DURATION OF WORK REQUIRED FOR THE REALIGNMENT OF THE WATERMAIN. DISINFECTION PROCEDURE SHALL FOLLOW THE REQUIREMENTS OF OPSS 441 AND TOWN STANDARDS.
 - CONTRACTOR SHALL COORDINATE TIMING AND DURATION OF SERVICE DISRUPTIONS WITH THE TOWN AND AFFECTED LAND OWNERS AND SHALL PROVIDE WRITTEN NOTIFICATION A MINIMUM OF TWO WEEKS PRIOR TO ANY PROPOSED DISRUPTION. NO WORK AFFECTING THE WATER OR OTHER MUNICIPAL SERVICES MAY COMMENCE UNTIL THE CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM THE TOWN OR ENGINEER.
 - CONTRACTOR TO PROVIDE TEMPORARY POTABLE WATER SERVICES IN ACCORDANCE WITH OPSS MUNI 493.
 - WATERMAIN, VALVES AND HYDRANTS SHALL BE INSTALLED AS PER OPSS 441 AND TOWN STANDARDS.
 - WATERMANS AND SERVICES SHALL HAVE MINIMUM 2.40m COVER IN ALL DIRECTIONS AT ALL TIMES.
 - WATERMAIN PIPE SHALL BE CSA CERTIFIED IN ACCORDANCE WITH AWWA C900 DR18.
 - WATER SERVICE LATERALS SHALL BE 25mm TYPE K COPPER AND SHALL BE INSTALLED PER OPSS 441.
 - GATE VALVES AS PER AWWA C509.
 - VALVE BOXES SHALL BE A 130mm DIAMETER SLIDE VALVE BOX COMPLETE WITH CASE IRON CAP AS SUPPLIED BY BIBBY-STE-CROIX OR APPROVED EQUAL.
 - CORROSION PROTECTION TO BE PROVIDED ACCORDING TO OPSD 1109.011 AND OPSS 442.
 - TRACER WIRE TO BE INSTALLED ALONG ALL NEW WATERMANS. TRACER WIRE IS TO BE CONTINUOUS (UNSPliced) AND SHALL BE SECURED TO THE PIPE USING FIBERGLASS TAPE OR PLASTIC TIE WRAPS, AND FASTENED TO A BOLT ON VALVES IN VALVE BOXES.
 - CONNECTION TO THE EXISTING 150mm WATER SERVICE SHALL BE COORDINATED WITH THE ENGINEER AND TOWN. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS AND EQUIPMENT REQUIRED TO MAKE THE CONNECTION. AT NO TIME SHALL THE CONTRACTOR OPERATE VALVES WITHIN THE TOWN DISTRIBUTION SYSTEM. THIS FUNCTION SHALL BE CARRIED OUT BY THE TOWN ONLY. ALL FEES CHARGED BY THE TOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - CONTRACTOR TO BACKFILL WITH SUITABLE NATIVE MATERIAL SIMILAR TO ADJACENT GROUND UP TO THE SUB-BASE GRANULAR FILL. BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 200mm AND COMPACTED ACCORDING TO OPSS 501 AND APPROVED BY THE GEOTECHNICAL CONSULTANT.



CONSULTANT: _____

SEAL: _____

CLIENT: _____

CLIENT REF. # : _____

PROJECT: _____

KEY PLAN: _____

MUNICIPALITY OF
NORTH GRENVILLE

RIVERSIDE PARK
SPLASH PAD AND RINK

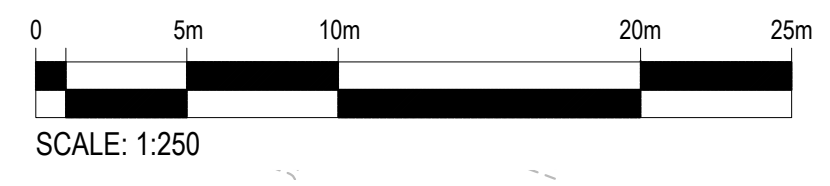
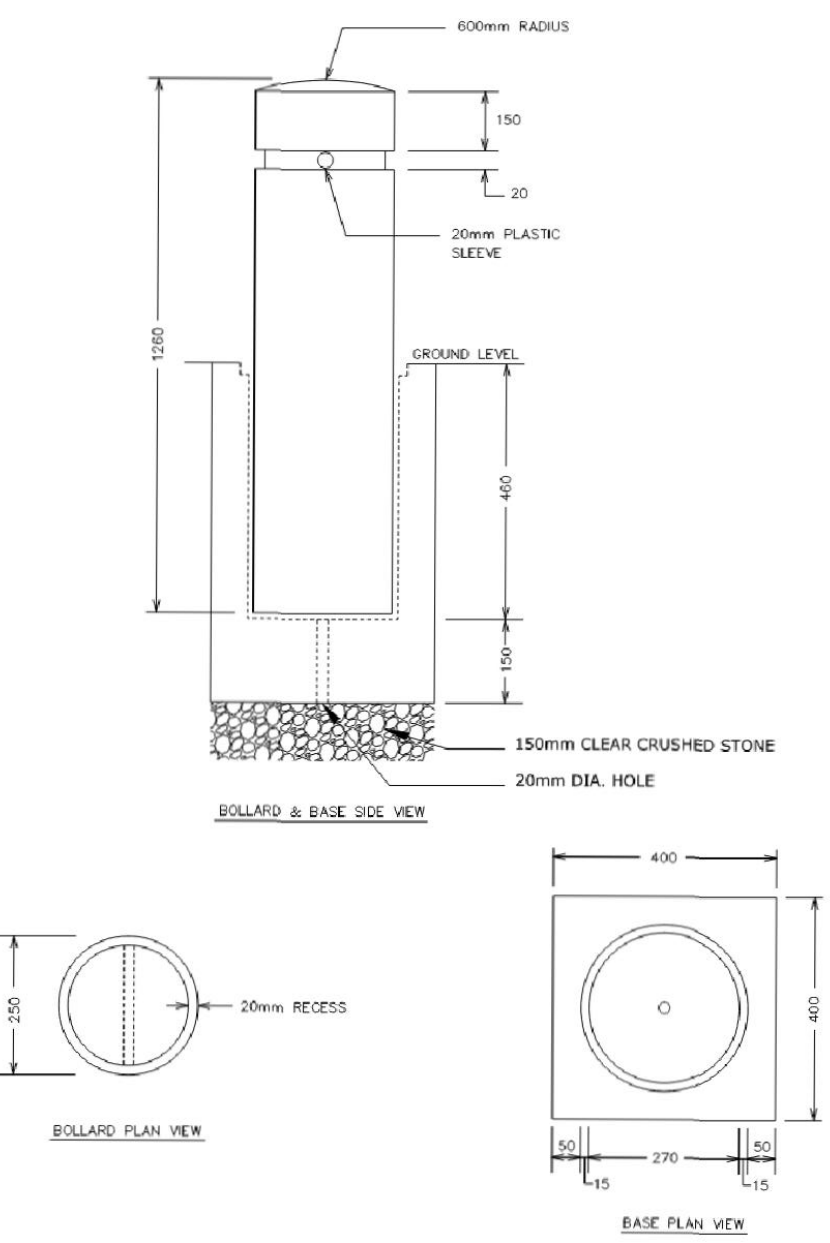
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ISSUED FOR - REVISION

NO.	DATE	DESCRIPTION
0	June 17, 2022	ISSUED FOR TENDER

IS	RE	DATE	DESCRIPTION
PROJECT NO:	219-00153-00	DATE:	June 2022
ORIGINAL SCALE:	1:200	DESIGNED BY:	EB
DRAWN BY:	EB	CHECKED BY:	IJ
DISCIPLINE:	CIVIL	TITLE:	SITE SERVICING PLAN

SHEET NUMBER:	C100
SHEET #	OF
ISSUE	REV #
DATE OF	0



GENERAL NOTES:

- THESE DESIGN DRAWINGS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT WITH. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED AND SIGNED BY THE PROFESSIONAL OF RECORD (LANDSCAPE ARCHITECT). THE CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.
- CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY ERRORS, OMISSIONS, AND / OR DISCREPANCIES TO CONTRACT ADMINISTRATOR IN WRITING PRIOR TO CONSTRUCTION. PROPERTY LINES TO BE VERIFIED PRIOR TO INITIATING ANY CONSTRUCTION.
- ALL MEASUREMENTS ARE IN MILLIMETRES (METRIC) UNLESS NOTED OTHERWISE.
- EXTENT OF WORK SHOWN IS TO CONVEY INTENT ONLY. EXTENT OF CONSTRUCTION IS TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION. IF THERE IS AMBIGUITY OR LACK OF INFORMATION, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CONTRACT ADMINISTRATOR. THE CONTRACTOR MAY BE HELD RESPONSIBLE TO REMOVE ANY CHANGES MADE WITHOUT WRITTEN PERMISSION OF THE CONTRACT ADMINISTRATOR.
- ALL CONSTRUCTION TO BE CARRIED OUT IN ACCORDANCE WITH THE MOST CURRENT DESIGN STANDARDS, CRITERIA, AND SPECIFICATIONS FROM THE ONTARIO BUILDING CODE, THE ONTARIO PROVINCIAL STANDARD DETAIL, THE ONTARIO PROVINCIAL STANDARD SPECIFICATION AND LANDSCAPE ONTARIO.
- CONTRACTOR IS RESPONSIBLE FOR ALL FEES ARISING FROM THE COMPLETION OF WORKS CONVEYED BY THESE DRAWINGS. FEES INCLUDE BUT ARE NOT LIMITED TO SECURITIES, PERMIT FEES, DEPOSITS, APPLICATION FEES, LETTERS OF CREDIT, OR ANY OTHER RELATED FUNDING REQUIREMENTS.
- QUALIFIED REGISTERED LAND SURVEYOR (OLS), ACCEPTABLE TO OWNER, TO LOCATE, CONFIRM AND PROTECT CONTROL POINTS PRIOR TO STARTING SITE WORK. PRESERVE PERMANENT REFERENCE POINTS DURING CONSTRUCTION.
- ESTABLISH TWO PERMANENT BENCH MARKS ON SITE, REFERENCED TO ESTABLISHED BENCH MARKS BY SURVEY CONTROL POINTS. RECORD LOCATIONS, WITH HORIZONTAL AND VERTICAL DATA IN PROJECT RECORD DOCUMENTS.
- ESTABLISH LINES AND LEVELS, LOCATED AND LAY OUT, BY INSTRUMENTATION.
- CONTRACTOR TO ENSURE PROPER DEPTH OF EXCAVATIONS TO ACCOMMODATE HARD SURFACE AND LANDSCAPING AS SPECIFIED ON THESE DRAWINGS.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING SITE FEATURES UNLESS IDENTIFIED FOR REMOVAL OR DEMOLITION, INCLUDING ALL SURVEY BARS, STAKES AND MONUMENTS. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ALL UNDERGROUND SERVICES INCLUDING LIGHT STANDARD ELECTRICAL LINES. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN COST.
- THE CONTRACTOR SHALL RETAIN AN INDEPENDENT INSPECTION AND TESTING COMPANY TO ENSURE THAT ALL WORK IS DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. TESTING SHALL INCLUDE REINFORCING STEEL PLACEMENT, CONCRETE TESTS, SOIL BEARING AND COMPACTION TESTS AND STRUCTURAL STEEL.
- SUBSTITUTIONS FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO THE ORDERING OF MATERIALS.
- CONTRACTOR TO MAKE GOOD TO CONTRACT ADMINISTRATOR'S APPROVAL ALL DAMAGES THAT OCCUR DURING CONSTRUCTION.
- UPON FINAL COMPLETION OF THE PROJECT, ALL WORKMANSHIP AND MATERIALS ARE TO BE GUARANTEED AS SPECIFIED.

SITE PREPARATION NOTES:

- THE CONTRACTOR SHALL UNDERTAKE SITE AND SURFACE PREPARATIONS REQUIRED TO DEVELOP AND IMPLEMENT ALL COMPONENTS OF DRAWINGS.
- CONTRACTOR TO WORK WITHIN GUIDELINES FOR THE MUNICIPALITY'S NOISE BY-LAWS.
- ANY REFUSE, GARBAGE, OR OTHER DEBRIS ON SITE MUST BE REMOVED AND DISPOSED OF OFF SITE AT THE EXPENSE OF THE CONTRACTOR.
- AREAS TO BE SODDED/SEEDED SHALL BE BACKFILLED WITH NATIVE SOIL TO 150mm BELOW FINISHED GRADE TO ALLOW FOR TOPSOIL INSTALLATION.
- ABSOLUTELY NO STORAGE OF EQUIPMENT OR MATERIALS OUTSIDE OF CONSTRUCTION FENCING.

SEDIMENTATION CONTROL:

- THE CONTRACTOR SHALL ENSURE THAT ALL REASONABLE MEASURES ARE TAKEN TO LIMIT GROUND DISTURBANCE CAUSED BY HEAVY EQUIPMENT USAGE, AND THAT EROSION AND SEDIMENT CONTROLS WILL BE INSTITUTED ON DISTURBED AREAS.
- SILTATION CONTROL FENCING SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF EXCAVATION OR GRADING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SILTATION CONTROL DEVICES IN GOOD WORKING ORDER AT ALL TIMES. CONTRACTOR SHALL INSPECT SUCH DEVICES DAILY AND AFTER EACH RAINFALL EVENT.
- FOLLOWING COMPLETION OF CONSTRUCTION, COLLECTED SILT SHALL BE DISPOSED OFF-SITE. SILT FENCE SHALL BE REMOVED AND THE AFFECTED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS.
- ALL ON-SITE STORAGE OF GRANULAR MATERIALS WILL BE ISOLATED AND SECURED WITH SILT FENCING
- NO IN-WATER WORKS ARE PERMITTED.

UNDERGROUND SERVICING AND UTILITIES:

- ALL UNDERGROUND SERVICE INFORMATION IS DERIVED FROM THE PROVIDED SURVEY AND HAVE NOT BEEN LOCATED BY THE UTILITY COMPANIES OR BY DAYLIGHTING. WSP GEOMATICS AND WSP CANADA GROUP LIMITED ASSUME NO RESPONSIBILITY AS TO THE ACCURACY, CORRECTNESS AND COMPLETENESS OF THE UNDERGROUND SERVICE INFORMATION SHOWN ON THE FACE OF THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES. CONTRACTOR TO VERIFY LOCATION AND PROTECT ALL SERVICES PRIOR TO ANY EXCAVATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALL A PRIVATE LOCATING COMPANY AND PAY ALL COSTS RELATING TO ALL SERVICES NOT STAKED OUT BY GAS, HYDRO, BELL, AND CABLE.
- CONTRACTOR SHALL LOCATE PLANT MATERIAL IN ACCORDANCE WITH UTILITY OFFSET REQUIREMENTS, INCLUDING MUNICIPAL STANDARDS, AND ELECTRICAL/HYDRO AUTHORITIES WHERE/AS APPLICABLE.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES WHICH OCCUR TO EXISTING SERVICES DURING CONSTRUCTION.
- CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB, REPORTING ALL DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE WORK.

GRADING NOTES:

- CONTRACTOR TO ENSURE POSITIVE DRAINAGE OF ALL AREAS WITHIN THE LIMIT OF THE CONTRACT.
- ENSURE TRANSITION OF EXISTING AND NEW GRADE ELEVATIONS IS SMOOTH.
- MINIMUM PERMITTED HARDSCAPE LONGITUDINAL SLOPE IS 1%; MAXIMUM PERMITTED IS 5%.
- MINIMUM GROUND SLOPE TO BE 2%, MAXIMUM PERMITTED 33%.
- PROPOSED ELEVATIONS ALONG LIMIT OF CONTRACT MUST MATCH EXISTING ELEVATIONS.
- NOTIFY CONTRACT ADMINISTRATOR IMMEDIATELY, IN WRITING, IF ANY DISCREPANCIES WITH STATED REQUIREMENTS ARE DISCOVERED.

LAYOUT NOTES:

- LAYOUT TO BE STAKED BY CONTRACTOR AND APPROVED BY THE CONTRACT ADMINISTRATOR.
- PATHWAY ALIGNMENT TO BE STAKED BY CONTRACTOR FOR REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR.
- ALL PLANT MATERIAL TO BE INSPECTED BY CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION. ALL PLANT MATERIAL MAY BE REJECTED AT ANY TIME DURING CONSTRUCTION AND WARRANTY PERIOD.
- CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY ERRORS, OMISSIONS, OR DISCREPANCIES TO THE CONTRACT ADMINISTRATOR IN WRITING.
- SITE FURNISHINGS TO BE AS SPECIFIED UNLESS SUBSTITUTION IS APPROVED IN WRITING BY CONTRACT ADMINISTRATOR.
- NOTIFY CONTRACT ADMINISTRATOR IMMEDIATELY, IN WRITING, IF ANY DISCREPANCIES WITH STATED REQUIREMENTS ARE DISCOVERED.

TOPSOIL PLANTING BED PREPARATION:

- TOPSOIL SHALL BE 'HORTICULTURAL TOPSOIL' FREE FROM ROOTS, DEBRIS OR PEBBLES OVER 25MM DIAMETER AND WEEDS, TOXIC MATERIALS, SOD OR OTHER FOREIGN BODIES. THE PH SHOULD BE BETWEEN 6 AND 7 AND THE HUMUS CONTENT SHOULD BE BETWEEN 4% AND 7%. THE CONTRACTOR SHALL PROVIDE A SAMPLE AND DESCRIPTIVE DATA SHEET WITH COMPONENTS FOR APPROVAL BEFORE WORK BEGINS.
- PREPARE PLANTING BEDS PRIOR TO ARRIVAL OF PLANT MATERIAL ON SITE AND EXCAVATE PER PLANTING DETAILS.

SODDING NOTES:

- SODDING/SEEDING SHALL CONFORM TO LANDSCAPE ONTARIO'S 'GENERAL LANDSCAPE SPECIFICATIONS'.
- SOD SHALL COME FROM A SINGLE SOURCE OF SUPPLY OF LAND WHOSE SURFACE IS A LOAM. DROUGHT-TOLERANT MIXES ARE ENCOURAGED. TURF (SOD) MUST BE ALIVE, DENSE AND FREE OF WEEDS. THE MIXTURE SHOULD BE COMPOSED OF AT LEAST 30% RED FESCUE AND 40% KENTUCKY BLUEGRASS OR THEIR CULTIVARS, OR IN KEEPING WITH NOTED DROUGHT-TOLERANT TURF PRODUCT. PROVIDE A SAMPLE AND DESCRIPTIVE DATA SHEET OF COMPONENTS FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- TOPSOIL SHALL BE EVENLY SPREAD OVER SUB-GRADE AND LOOSELY COMPACTED TO 150mm MINIMUM DEPTH.
- ALL STONES AND DEBRIS OVER 25mm DIA. SHALL BE REMOVED.
- SODDED AREAS SHALL BE FREE OF BARE OR ERODED RUTTED SURFACES, WEEDS OR DEAD GRASS. GRASS SHOULD BE VIVACIOUS AND SHOWING CLEAR SIGNS OF ROOTING.
- MAINTAIN SODDED AREAS FROM THE TIME OF INSTALLATION UNTIL THIRTY (30) CALENDAR DAYS AFTER ALL SODDED AREAS HAVE BEEN INSPECTED BY THE CONTRACT ADMINISTRATOR AND A CERTIFICATE OF COMPLETION IS ISSUED. MINIMUM OF TWO CUTS. MAINTENANCE SHALL INCLUDE ALL NECESSARY MEASURES TO ESTABLISH AND MAINTAIN GRASS IN A HEALTHY, VIGOROUS GROWING CONDITION.
- MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING WORK:
 - a. MOWING AT REGULAR INTERVALS TO MAINTAIN A MAXIMUM HEIGHT OF 60MM. DO NOT CUT MORE THAN 1/3 OF THE GRASS HEIGHT AT ANY ONE MOWING. TRIM AND CLIP EDGES. REMOVE CLIPPINGS AFTER MOWING AND TRIMMING.
 - b. WATERING WHEN REQUIRED IN SUFFICIENT QUANTITIES AND AT A FREQUENCY TO PREVENT SOD FROM DRYING OUT AND TO MAINTAIN SOIL UNDER SOD CONTINUOUSLY MOIST TO A DEPTH OF 75 TO 100MM.
 - c. FERTILIZE SODDED AREAS ONE MONTH AFTER SODDING WITH 2:1:1 RATIO FERTILIZER. SPREAD EVENLY AT A RATE AS PER MANUFACTURER'S INSTRUCTIONS AND WATER IN WELL, WITH A MINIMUM OF 50CM INFILTRATION AS PREVIOUSLY MENTIONED.

PLANT MATERIAL ORDER, DELIVERY AND INSPECTION:

- CONTRACTOR TO CHECK ALL QUANTITIES AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR IN WRITING. THE QUANTITIES INDICATED ON THE PLAN SUPERCEDE THE TOTALS OF THE PLANT LIST.
- SUBSTITUTIONS OF SIZE, OR WITH OTHER PLANT MATERIAL WILL ONLY BE ALLOWED WITH THE WRITTEN APPROVAL OF THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL NOTIFY THE PROFESSIONAL OF RECORD (LANDSCAPE ARCHITECT) OF DELIVERY OF PLANT MATERIALS AT LEAST 48 HOURS IN ADVANCE OF DELIVERY FOR REVIEW AND APPROVAL, PRIOR TO COMMENCEMENT OF PLANTING WORK.
- APPROVAL OF PLANT MATERIAL PRIOR TO PLANTING SHALL NOT IMPAIR THE RIGHT OF THE CONTRACT ADMINISTRATOR TO REJECT PLANTS AFTER PLANTING, WHICH HAVE BEEN DAMAGED, OR WHICH IN ANY WAY DO NOT CONFORM TO THE SPECIFICATIONS.
- ALL MATERIAL MUST CONFORM TO THE SIZES SHOWN ON THE PLANT LIST, EXCEPT WHERE LARGER PLANT MATERIAL IS USED WHEN APPROVED BY THE CONTRACT ADMINISTRATOR. USE OF LARGER PLANTS WILL NOT INCREASE THE CONTRACT PRICE. UNDERSIZED MATERIAL WILL BE REJECTED.
- ALL SHRUBS AND TREES SHALL CONFORM TO THE PRESENT STANDARDS OF THE CANADIAN NURSERY TRADES ASSOCIATION FOR SIZE AND SPECIES.
- ALL PLANTS SHALL BE NURSERY GROWN AND SUPPLIED BY NURSERIES THAT SUPPORT SUSTAINABLE PRACTICES IN PLANT PRODUCTION AND UNDER PROPER CULTURAL CONDITIONS, IN PARTICULAR WITH RESPECT TO SPACING, PEST AND DISEASE CONTROL, AND BRANCH AND ROOT PRUNING.
- THE CONTRACTOR SHALL ENSURE THAT THE PLANTS ARE HANDLED WITH CARE SO AS NOT TO BREAK UP SOIL/ROOT CLOUDS OR BRANCHES. FOR TREES, IF NECESSARY, APPLY AN ANTI-DESICCANT SO THEY DO NOT DRY OUT DURING TRANSPORT. ANY PLANT DAMAGE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ON SITE, ALL PLANTS SHOULD BE PROTECTED FROM SUN AND DRYING WINDS AND SHOULD BE WATERED FREQUENTLY UNTIL PLANTING.
- TREES ARE TO HAVE STRAIGHT STURDY TRUNKS.
- TREES SHALL BE WELL BRANCHED AND BALANCED WITH A STRONG CENTRAL LEADER.
- DECIDUOUS SHADE TREES SHALL BE FREE OF BRANCHES FROM GROUND LEVEL TO A HEIGHT OF 1.8M ABOVE THE GROUND.
- TREES WITH OPEN SCARS ARE NOT ACCEPTABLE.
- PITS AND PLANTING BEDS SHOULD BE LOCATED ACCORDING TO THE DRAWINGS AND SHALL BE OF SUFFICIENT SIZE ACCORDING TO THE DETAILS PROVIDED. THE CONTRACTOR SHALL OBTAIN APPROVAL, FROM THE PROFESSIONAL OF RECORD (LANDSCAPE ARCHITECT) OF THE PITS AND PLANTING BEDS BEFORE PLANTING.
- ALL SURFACE OF PLANTING BEDS (PERENNIALS AND SHRUBS) AND SUACERS FOR TREE PLANTING PITS WILL BE COVERED WITH NATURAL CEDAR MULCH AS PER DETAILS.
- THE PLANTS SHALL BE AMENDED INDIVIDUALLY - DIRECTLY IN THE PLANTING HOLD WITH COMPOST, BONE MEAL AND MYCORRHIZAE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- PLANTS SHOULD BE WATERED LESS THAN AN HOUR AFTER PLANTING AND AGAIN IN THE SAME DAY.
- ALL DECIDUOUS TREES AND CONIFERS SHALL BE PROTECTED AGAINST RODENTS WITH A SECTION OF Dimex Easy Flex® RODENT GUARD (OR APPROVED EQUAL) INSTALLED AT THE BASE OF THE TRUNK.
- WINTER PROTECTION: NECESSARY PROTECTION SHALL BE INSTALLED FOR ALL FRAGILE PLANTS TO PROTECT AGAINST WINTER WINDS OR LIKELY DAMAGE BY SNOW - FOR EXAMPLE THE BASE OF THE BUILDING SUBJECT TO FALLING SNOW FROM ROOFS, OR IN AREAS SUBJECT TO SNOW STORAGE AND REMOVAL). THE PROTECTION SHALL BE REVIEWED AND APPROVED AT THE END OF THE PLANTING WORKS BY LANDSCAPE ARCHITECT. PROTECTIONS MUST BE ADAPTED TO EACH PLANT OR GROUP OF PLANTS ACCORDING TO THE SPECIFICATIONS OF THE LANDSCAPE ARCHITECT. STRUCTURES AND MATERIALS DEVELOPED FOR WINTER PROTECTION SHALL REMAIN IN THE POSSESSION OF THE CUSTOMER AFTER THE WARRANTY PERIOD OF THE WORK.

PLANT MATERIAL GUARANTEE AND FINAL INSPECTION:

- AT THE COMPLETION OF PLANTING OPERATIONS, REMOVE ALL SURPLUS MATERIAL FROM THE SITE AT NO EXTRA CHARGE TO THE PROJECT.
- MAKE GOOD ALL DAMAGE RESULTING FROM PLANTING OPERATIONS AT NO EXTRA CHARGE TO THE PROJECT.
- PLANT MATERIAL SHALL BE GUARANTEED FOR A MINIMUM OF TWO YEARS FROM THE ISSUE DATE OF THE CERTIFICATE OF COMPLETION.
- ALL PLANTS SHALL BE INSPECTED TWICE, ONCE HALFWAY THROUGH THE GUARANTEE PERIOD, AND AGAIN AT THE END OF THE GUARANTEE PERIOD. PLANTS WHICH, AT THAT TIME, ARE NOT IN HEALTHY VIGOROUS GROWING CONDITION, TO THE CONSULTANT'S APPROVAL, SHALL BE REPLACED AT NO EXTRA CHARGE TO THE PROJECT.
- CONTRACTOR TO CONTACT CONTRACT ADMINISTRATOR AND/OR APPROVAL AGENCY/MUNICIPALITY TO REVIEW PROJECT FOR GUARANTEE INSPECTIONS.


CONCRETE NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO OPSS SPECIFICATION 1350 FOR CONCRETE AND TO THE REQUIREMENTS OF CAN/CSA G30.18 SERIES OF REINFORCING STEEL.
- CONCRETE PROPERTIES:
 - a. FINISH SHALL BE WITH A MAGNESIUM FLOAT; 35MPa
 - b. ALL EXPANSION JOINTS SHALL BE CAULKED
 - c. ALL CONTROL JOINTS SHALL BE SAWCUT (NO TOOLED JOINTS)

SPLASH PAD NOTES:

- EQUIPMENT AND SERVICING LOCATIONS ARE CONCEPTUAL ONLY. FINAL LOCATIONS ARE TO BE STAKED OUT IN THE FIELD BY CONTRACTOR FOR INSPECTION AND APPROVAL BY THE CONSULTANT.
- ALL WATER PLAY EQUIPMENT TO BE MANUFACTURED BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. AVAILABLE THROUGH A.B.C. RECREATION LTD AT 1-800-267-5753 (OR APPROVED EQUAL).
- THERE IS TO BE A MINIMUM OF 12-13 DIFFERENT SPRAY FEATURES WITH AQUATIC THEMING INCLUDED AS PART OF THE SPLASH PAD DESIGN, NOT INCLUDING THE SPLASH PAD ACTIVATOR UNIT AND REQUIRED MECHANICAL SYSTEMS.
- SPLASH PAD WATER TREATMENT SYSTEM SHALL BE A RECIRCULATION SYSTEM MANUFACTURED BY CRYSTAL FLOW WATER TREATMENT SYSTEMS AVAILABLE THROUGH A.B.C. RECREATION LTD AT 1-800-267-5753 (OR APPROVED EQUAL).
- REFER TO SUPPLIER SPECIFICATIONS FOR PIPES, DRAINAGE LINES, AND CONNECTION REQUIREMENTS.
- ALL PIPING TO FEATURES SHALL HAVE A 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.
- ALL METAL WATER PLAY COMPONENTS REQUIRE BONDING AS PER SECTION 68 OF THE ONTARIO ELECTRICAL SAFETY CODE 22ND EDITION, 1998. THE COMPONENTS WILL INCLUDE ALL WATER SPRAY POSTS, SPRAY HEADS, ALL DRAIN GRATES, ALL BRACKETS FOR THE PLAY FEATURES AND ANY REINFORCING STEEL THE POURED CONCRETE SLAB (SEE ELECTRICAL DRAWINGS)
- CONTRACTOR IS RESPONSIBLE FOR STAKING OUT OF ALL EXISTING UNDERGROUND UTILITIES WITHIN AND AROUND THE CONTRACT AREA PRIOR TO ANY EXCAVATION AND INSTALLATION WORKS ON SITE.
- ALL WORK TO BE INSTALLED BY A CONTRACTOR HAVING COMPLETED A MINIMUM OF 2 PROJECTS OF A SIMILAR SCOPE AND SCALE WHICH INVOLVED THE CONSTRUCTION OF SPLASH PADS AND THE COORDINATION OF SUB-CONTRACTORS WITHIN THE LAST 10 YEARS.
- THE CONTRACTOR IS RESPONSIBLE FOR DEMONSTRATING START UP PROCEDURES, DAY TO DAY OPERATION OF THE SYSTEM, SHUT DOWN PROCEDURES AND WINTERIZATION PROCEDURES TO THE OWNER IN COORDINATION WITH THE SUPPLIER AND PER SUPPLIER RECOMMENDATIONS.
- PROVIDE THREE (3) COPIES OF OPERATION AND MAINTENANCE MANUAL SHOWING ALL COMPONENTS AND SUPPLIERS, SERVICE COMPANY NAMES, APPROVED SHOP DRAWINGS, AND AS-BUILT DESIGN DRAWINGS TO OWNER.
- THE CONTRACTOR IS TO GUARANTEE ALL WORK FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND SHALL BE RESPONSIBLE FOR ONE START UP AND WINTERIZATION.

STANDARD SPECIFICATIONS INDEX	
OPSS CODE	ITEM DESCRIPTION
314	UNTREATED GRANULAR, SUBBASE, BASE, SURFACE, SHOULDER, AND STOCKPILING
401	TRENCHING, BACKFILLING, AND COMPACTING
510	REMOVAL
801	THE PROTECTION OF TREES
802	TOPSOIL
803	SODDING
805	TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES
1001	MATERIAL SPECIFICATIONS FOR AGGREGATES - GENERAL
1010	MATERIAL SPECIFICATIONS FOR AGGREGATES - BASE, SUBBASE, SELECT SUBGRADE, AND BACKFILL
1350	MATERIAL SPECIFICATIONS FOR CONCRETE - MATERIALS AND PRODUCTION
1860	MATERIAL SPECIFICATIONS FOR GEOTEXTILES
O. REG 406/ 19	ON-SITE AND EXCESS SOIL MANAGEMENT
201	CONSTRUCTION SPECIFICATIONS FOR CLEARING, CLOSE CUT CLEARING, GRUBBING, AND REMOVAL OF SURFACE AND PILED BOULDERS



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OTTAWA, ONTARIO
CANADA K2B 8K2
PHONE: 613-829-2900
WWW.WSP.COM

CONSULTANT:

SEAL:

CLIENT:

**MUNICIPALITY OF
NORTH GRENVILLE**

CLIENT REF. # : --

PROJECT:

**RIVERSIDE PARK
POOL HOUSE**

KEY PLAN:

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ISSUED FOR - REVISION:

NO.	REVISION	DATE	DESCRIPTION
2		2022.06.21	ISSUED FOR TENDER
1		2022.06.07	DRAFT TENDER FOR COORDINATION

PROJECT NO:	DATE:
219-00153-00	.. JUNE 2022

ORIGINAL SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
1:200	LS	LS	AG

DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE: **GENERAL NOTES**

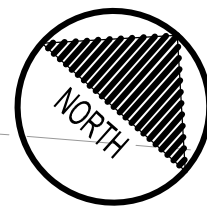
SHEET NUMBER: **L100**

SHEET #	OF	ISSUE	REV #
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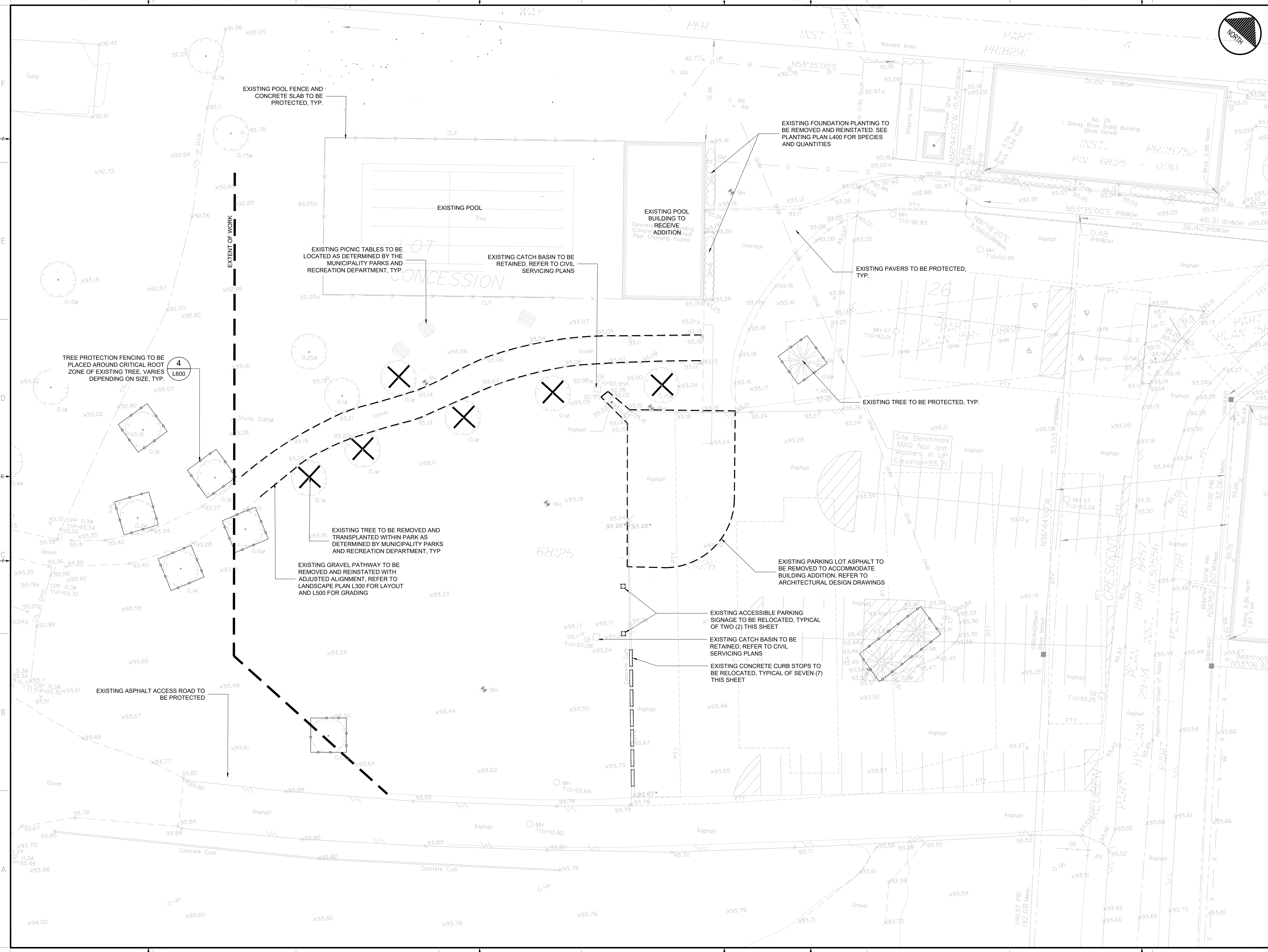
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CANADA K2B 8K2
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CLIENT:	MUNICIPALITY OF NORTH GRENVILLE	
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PROJECT:	RIVERSIDE PARK POOL HOUSE	
KEY PLAN:		
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PROJECT NO.:	219-00153-00	
ORIGINAL SCALE:	1:200	
DESIGNED BY:	LS	
DRAWN BY:	LS	
CHECKED BY:	AG	
DISCIPLINE:	LANDSCAPE ARCHITECTURE	
TITLE:	EXISTING CONDITIONS AND REMOVALS PLAN	
SHEET NUMBER:	L200	
SHEET #:	OF	
ISSUE:		REV #
DATE OF:		2

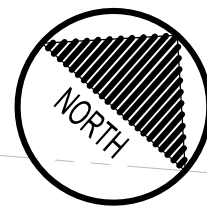


10 9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1



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PROJECT:

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IS	RE	DATE	DESCRIPTION

PROJECT NO:
219-00153-00

ORIGINAL SCALE:
1:200

DESIGNED BY:
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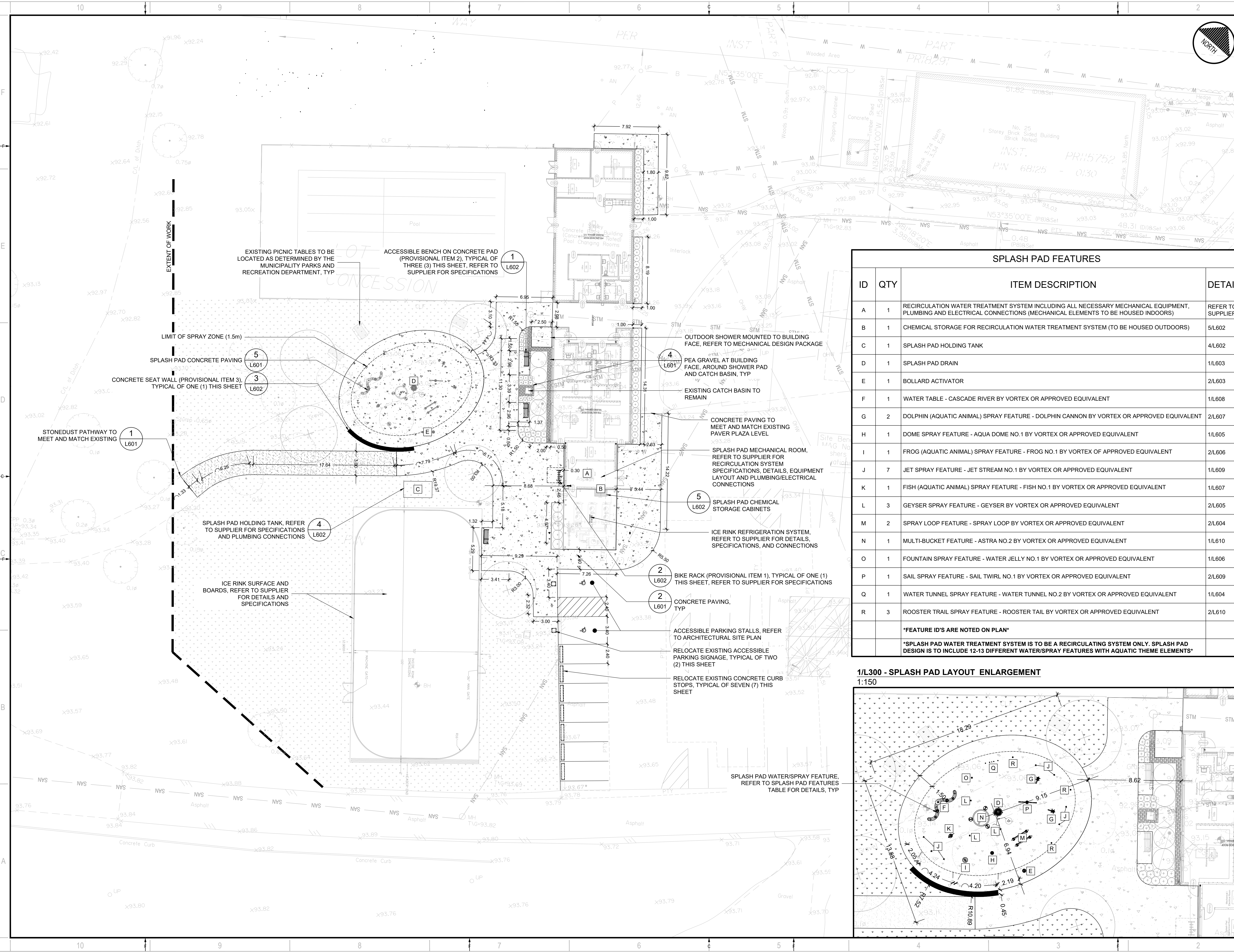
CHECKED BY:
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DISCIPLINE:
LANDSCAPE ARCHITECTURE

TITLE:
LAYOUT AND MATERIALS PLAN

SHEET NUMBER: L300

SHEET # OF
ISSUE OF
DATE OF: - - - - -
REV #
2



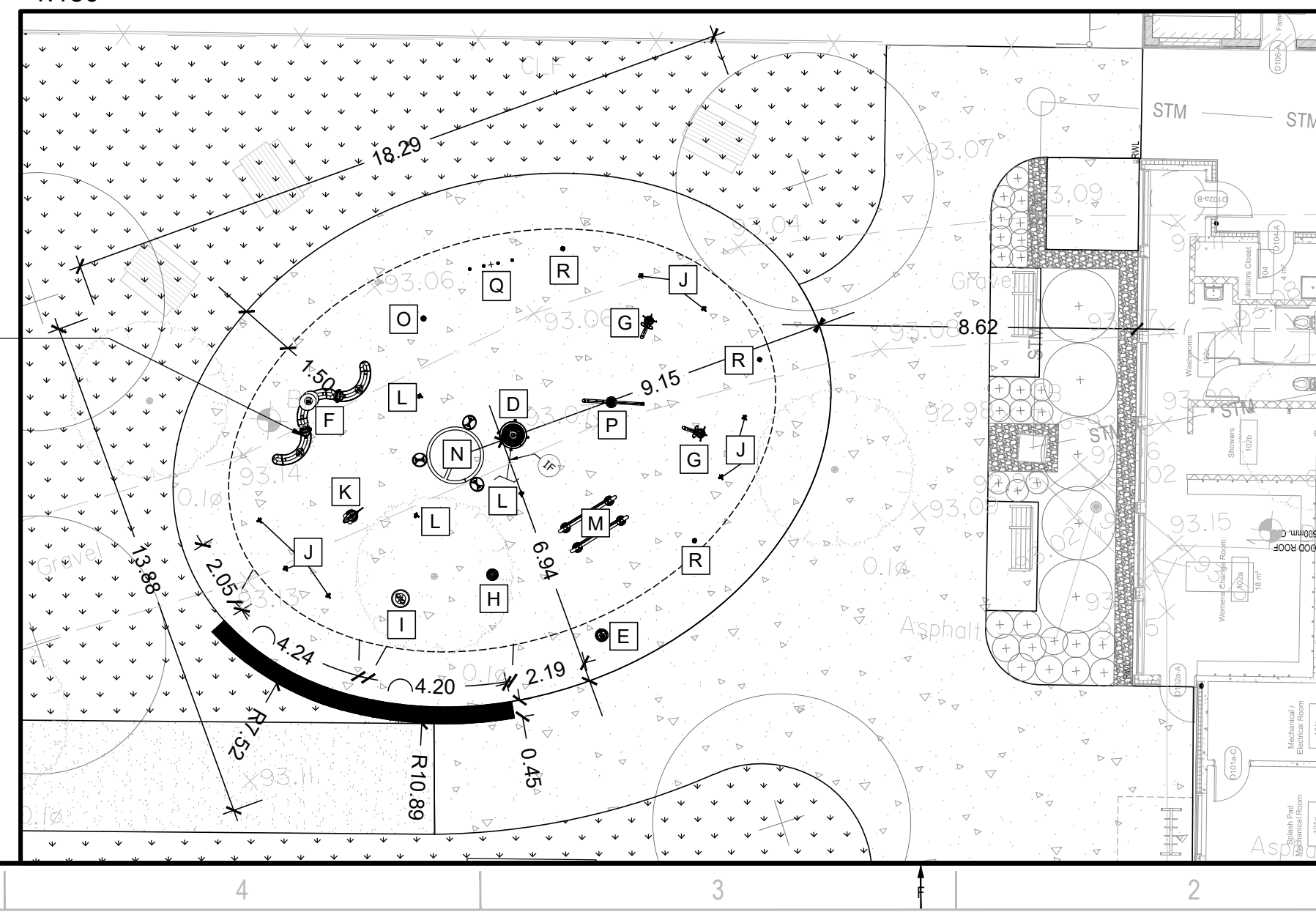
SPLASH PAD FEATURES

ID	QTY	ITEM DESCRIPTION	DETAIL
A	1	RECIRCULATION WATER TREATMENT SYSTEM INCLUDING ALL NECESSARY MECHANICAL EQUIPMENT, PLUMBING AND ELECTRICAL CONNECTIONS (MECHANICAL ELEMENTS TO BE HOUSED INDOORS)	REFER TO SUPPLIER
B	1	CHEMICAL STORAGE FOR RECIRCULATION WATER TREATMENT SYSTEM (TO BE HOUSED OUTDOORS)	5/L602
C	1	SPLASH PAD HOLDING TANK	4/L602
D	1	SPLASH PAD DRAIN	1/L603
E	1	BOLLARD ACTIVATOR	2/L603
F	1	WATER TABLE - CASCADE RIVER BY VORTEX OR APPROVED EQUIVALENT	1/L608
G	2	DOLPHIN (AQUATIC ANIMAL) SPRAY FEATURE - DOLPHIN CANNON BY VORTEX OR APPROVED EQUIVALENT	2/L607
H	1	DOME SPRAY FEATURE - AQUA DOME NO.1 BY VORTEX OR APPROVED EQUIVALENT	1/L605
I	1	FROG (AQUATIC ANIMAL) SPRAY FEATURE - FROG NO.1 BY VORTEX OF APPROVED EQUIVALENT	2/L606
J	7	JET SPRAY FEATURE - JET STREAM NO.1 BY VORTEX OR APPROVED EQUIVALENT	1/L609
K	1	FISH (AQUATIC ANIMAL) SPRAY FEATURE - FISH NO.1 BY VORTEX OR APPROVED EQUIVALENT	1/L607
L	3	GEYSER SPRAY FEATURE - GEYSER BY VORTEX OR APPROVED EQUIVALENT	2/L605
M	2	SPRAY LOOP FEATURE - SPRAY LOOP BY VORTEX OR APPROVED EQUIVALENT	2/L604
N	1	MULTI-BUCKET FEATURE - ASTRA NO.2 BY VORTEX OR APPROVED EQUIVALENT	1/L610
O	1	FOUNTAIN SPRAY FEATURE - WATER JELLY NO.1 BY VORTEX OR APPROVED EQUIVALENT	1/L606
P	1	SAIL SPRAY FEATURE - SAIL TWIRL NO.1 BY VORTEX OR APPROVED EQUIVALENT	2/L609
Q	1	WATER TUNNEL SPRAY FEATURE - WATER TUNNEL NO.2 BY VORTEX OR APPROVED EQUIVALENT	1/L604
R	3	ROOSTER TRAIL SPRAY FEATURE - ROOSTER TAIL BY VORTEX OR APPROVED EQUIVALENT	2/L610

FEATURE ID'S ARE NOTED ON PLAN

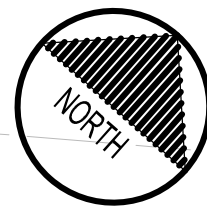
SPLASH PAD WATER TREATMENT SYSTEM IS TO BE A RECIRCULATING SYSTEM ONLY. SPLASH PAD DESIGN IS TO INCLUDE 12-13 DIFFERENT WATER/SPRAY FEATURES WITH AQUATIC THEME ELEMENTS

1/L300 - SPLASH PAD LAYOUT ENLARGEMENT
1:150





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CLIENT REF. # --
PROJECT:
RIVERSIDE PARK
POOL HOUSE

KEY PLAN:

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	2	2022.06.21	ISSUED FOR TENDER
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IS	RE	DATE	DESCRIPTION
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PROJECT NO.	DATE
219-00153-00	JUNE 2022

DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE: PLANTING PLAN

SHEET NUMBER: L400

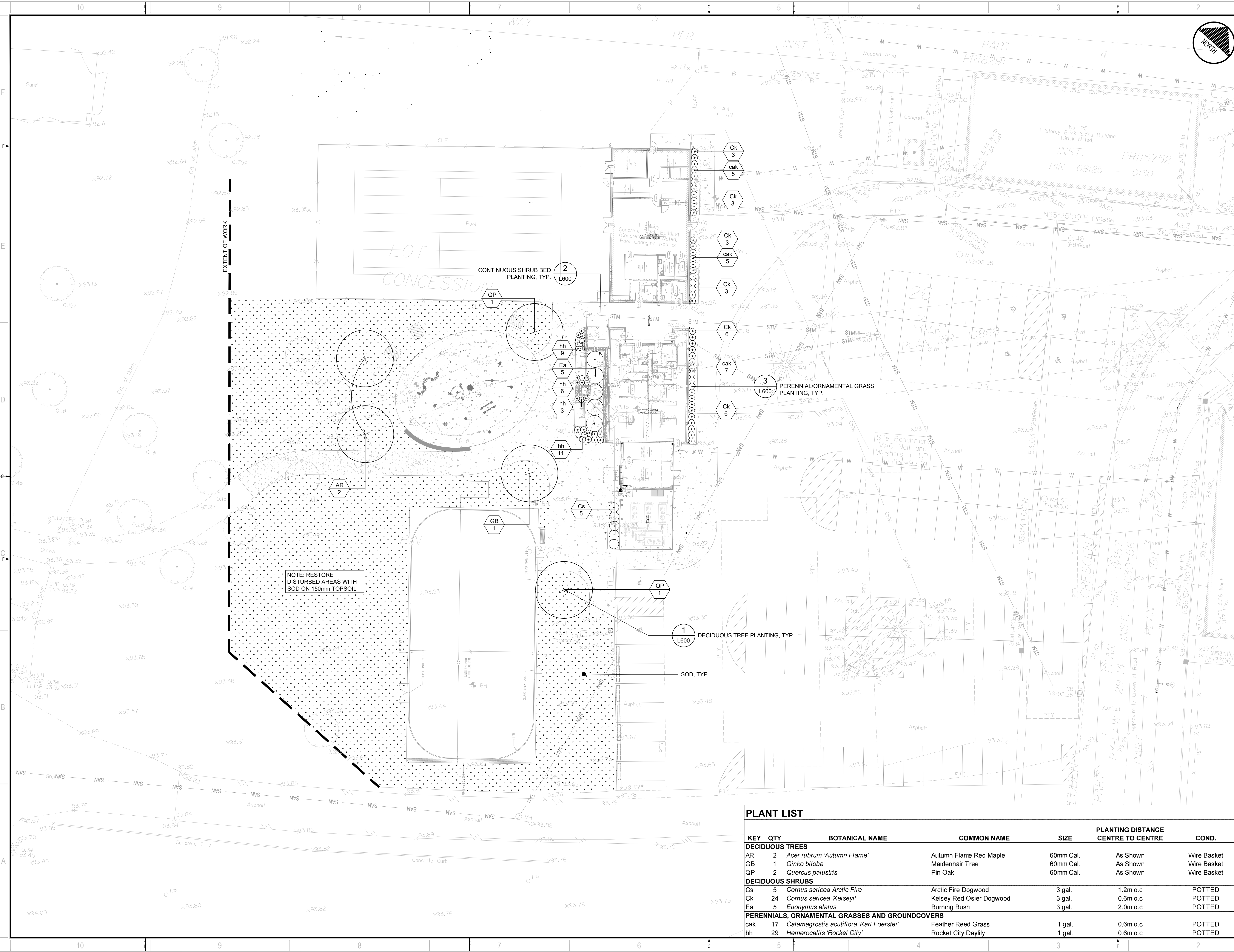
SHEET # OF

ISSUE: --

DATE OF: --

REV #

2



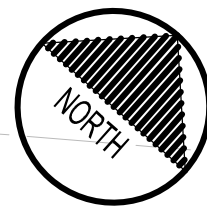
NOTE: RESTORE
DISTURBED AREAS WITH
SOD ON 150mm TOPSOIL

PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	PLANTING DISTANCE CENTRE TO CENTRE	COND.
DECIDUOUS TREES						
AR	2	<i>Acer rubrum 'Autumn Flame'</i>	Autumn Flame Red Maple	60mm Cal.	As Shown	Wire Basket
GB	1	<i>Ginkgo biloba</i>	Maidenhair Tree	60mm Cal.	As Shown	Wire Basket
QP	2	<i>Quercus palustris</i>	Pin Oak	60mm Cal.	As Shown	Wire Basket
DECIDUOUS SHRUBS						
Cs	5	<i>Comus sericea Arctic Fire</i>	Arctic Fire Dogwood	3 gal.	1.2m o.c	POTTED
Ck	24	<i>Comus sericea 'Kelsey'</i>	Kelsey Red Osier Dogwood	3 gal.	0.6m o.c	POTTED
Ea	5	<i>Euonymus alatus</i>	Burning Bush	3 gal.	2.0m o.c	POTTED
PERENNIALS, ORNAMENTAL GRASSES AND GROUNDCOVERS						
cak	17	<i>Calamagrostis acutiflora 'Karl Foerster'</i>	Feather Reed Grass	1 gal.	0.6m o.c	POTTED
hh	29	<i>Hemerocallis 'Rocket City'</i>	Rocket City Daylily	1 gal.	0.6m o.c	POTTED

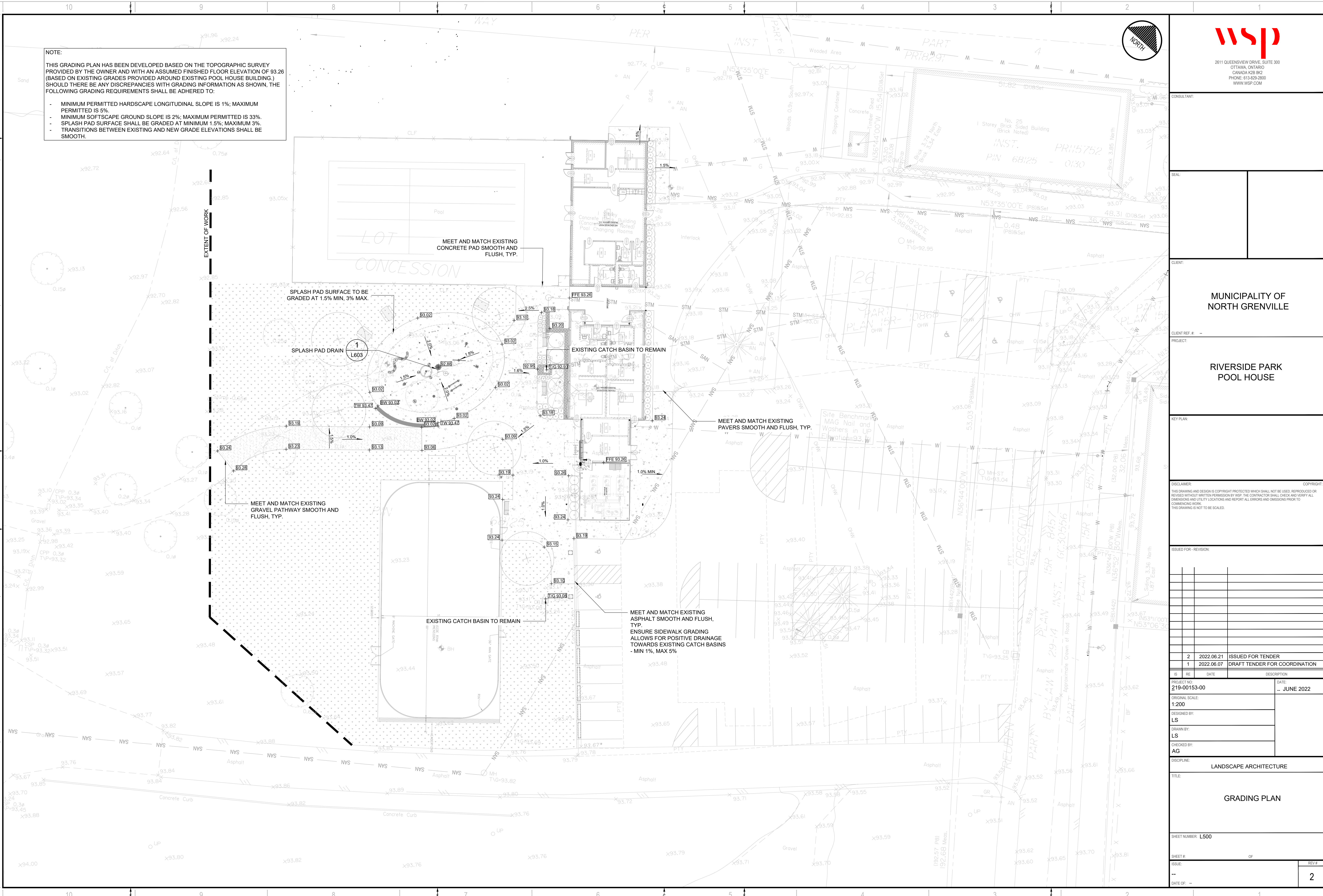


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NOTE:
THIS GRADING PLAN HAS BEEN DEVELOPED BASED ON THE TOPOGRAPHIC SURVEY PROVIDED BY THE OWNER AND WITH AN ASSUMED FINISHED FLOOR ELEVATION OF 93.26 (BASED ON EXISTING GRADES PROVIDED AROUND EXISTING POOL HOUSE BUILDING.) SHOULD THERE BE ANY DISCREPANCIES WITH GRADING INFORMATION AS SHOWN, THE FOLLOWING GRADING REQUIREMENTS SHALL BE ADHERED TO:

- MINIMUM PERMITTED HARDSCAPE LONGITUDINAL SLOPE IS 1%; MAXIMUM PERMITTED IS 5%.
- MINIMUM SOFTSCAPE GROUND SLOPE IS 2%; MAXIMUM PERMITTED IS 33%.
- SPLASH PAD SURFACE SHALL BE GRADED AT MINIMUM 1.5%; MAXIMUM 3%.
- TRANSITIONS BETWEEN EXISTING AND NEW GRADE ELEVATIONS SHALL BE SMOOTH.



CONSULTANT:

SEAL:

CLIENT:

MUNICIPALITY OF NORTH GRENVILLE

CLIENT REF. # -
PROJECT:
RIVERSIDE PARK POOL HOUSE

KEY PLAN:

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PROJECT NO:
219-00153-00

DATE:
JUNE 2022

ORIGINAL SCALE:
1:200

DESIGNED BY:
LS

DRAWN BY:
LS

CHECKED BY:
AG

DISCIPLINE:
LANDSCAPE ARCHITECTURE

TITLE:
GRADING PLAN

SHEET NUMBER: **L500**

SHEET # OF
ISSUE OF

DATE OF: -
REV #
2



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PROJECT:

RIVERSIDE PARK
POOL HOUSE

KEY PLAN:

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IS	RE	DATE	DESCRIPTION

PROJECT NO: 219-00153-00 DATE: JUNE 2022

ORIGINAL SCALE: 1:200

DESIGNED BY: LS

DRAWN BY: LS

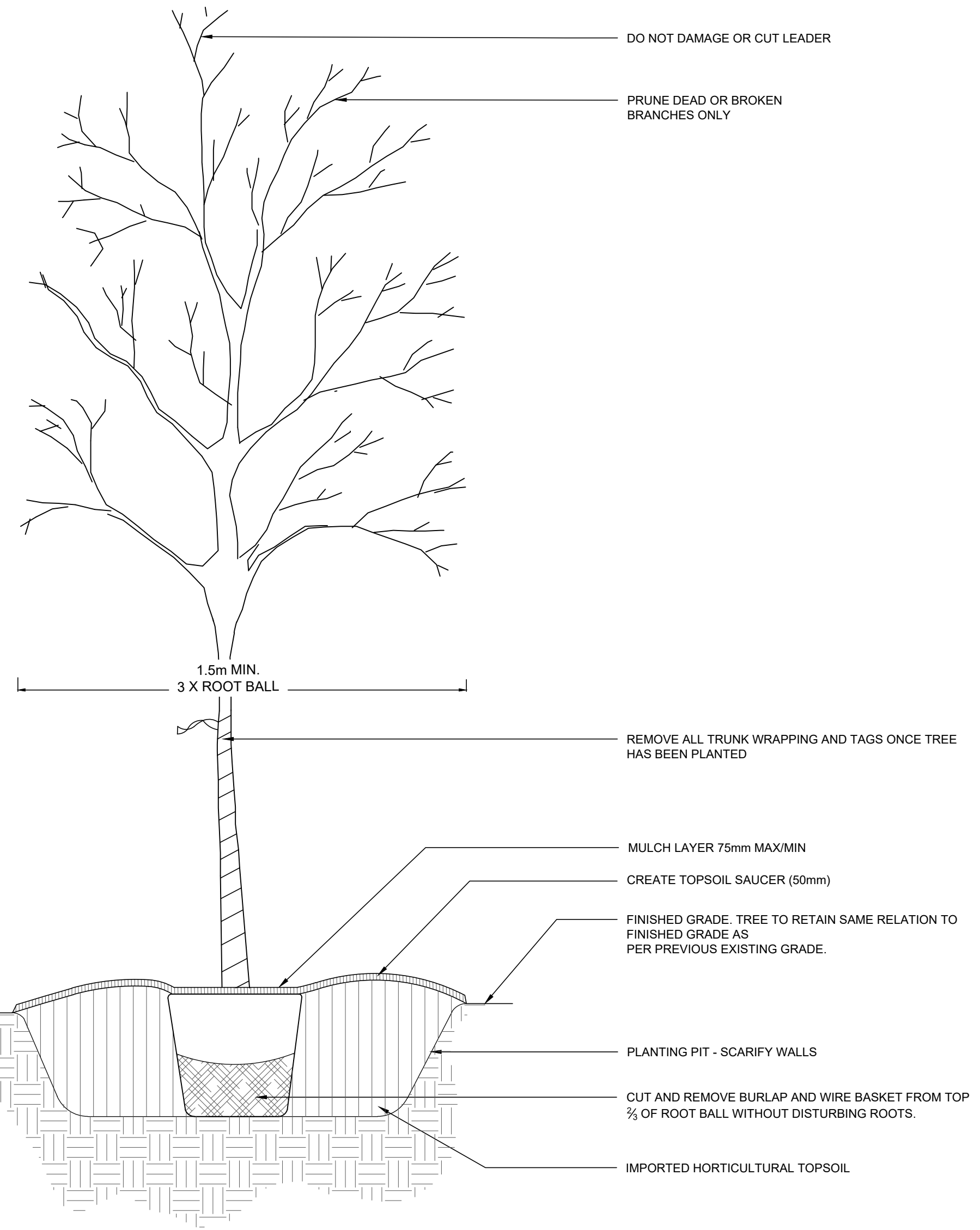
CHECKED BY: AG

DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE: LANDSCAPE DETAILS SHEET 1

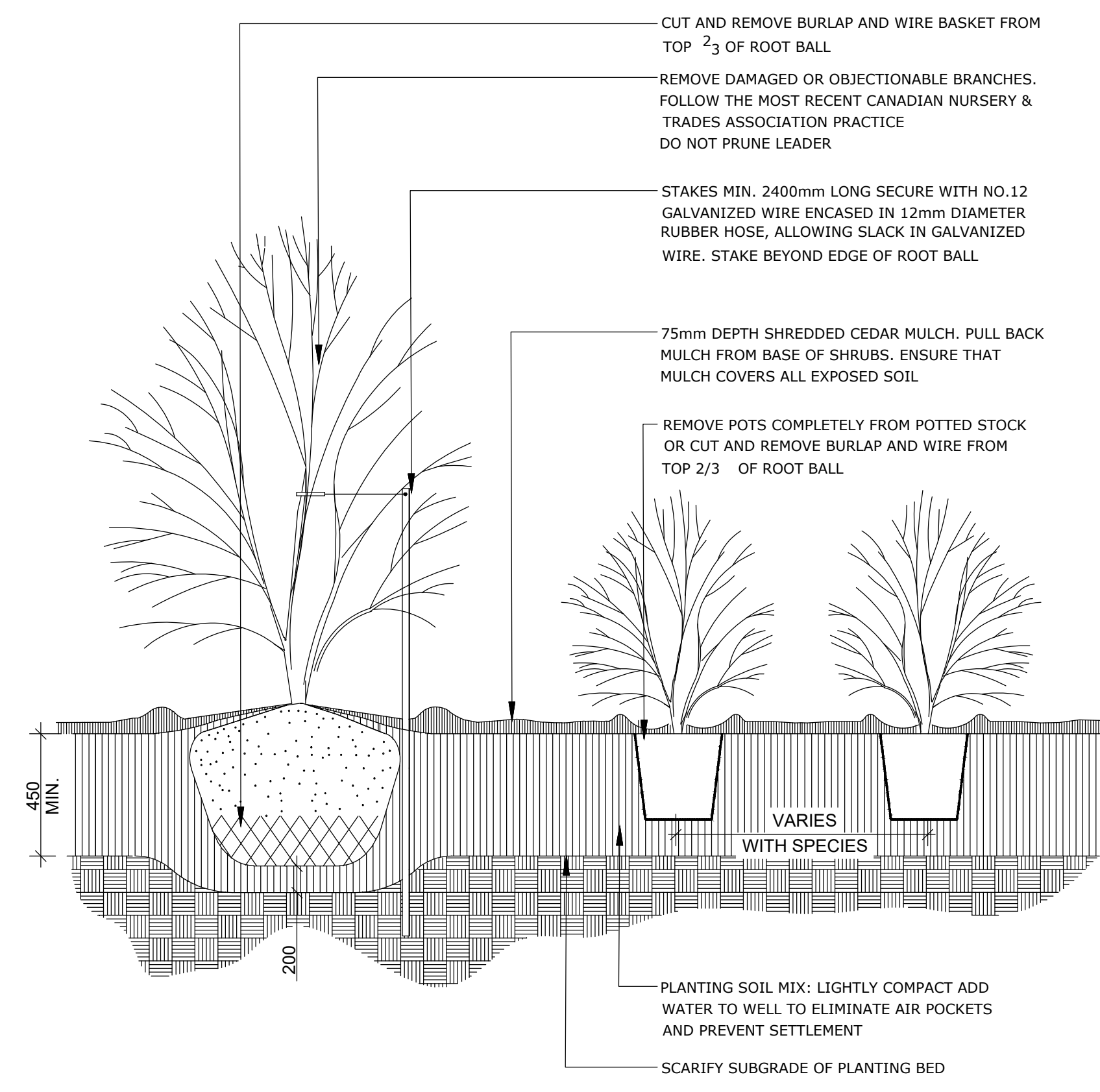
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SHEET #	OF	ISSUE	REV #
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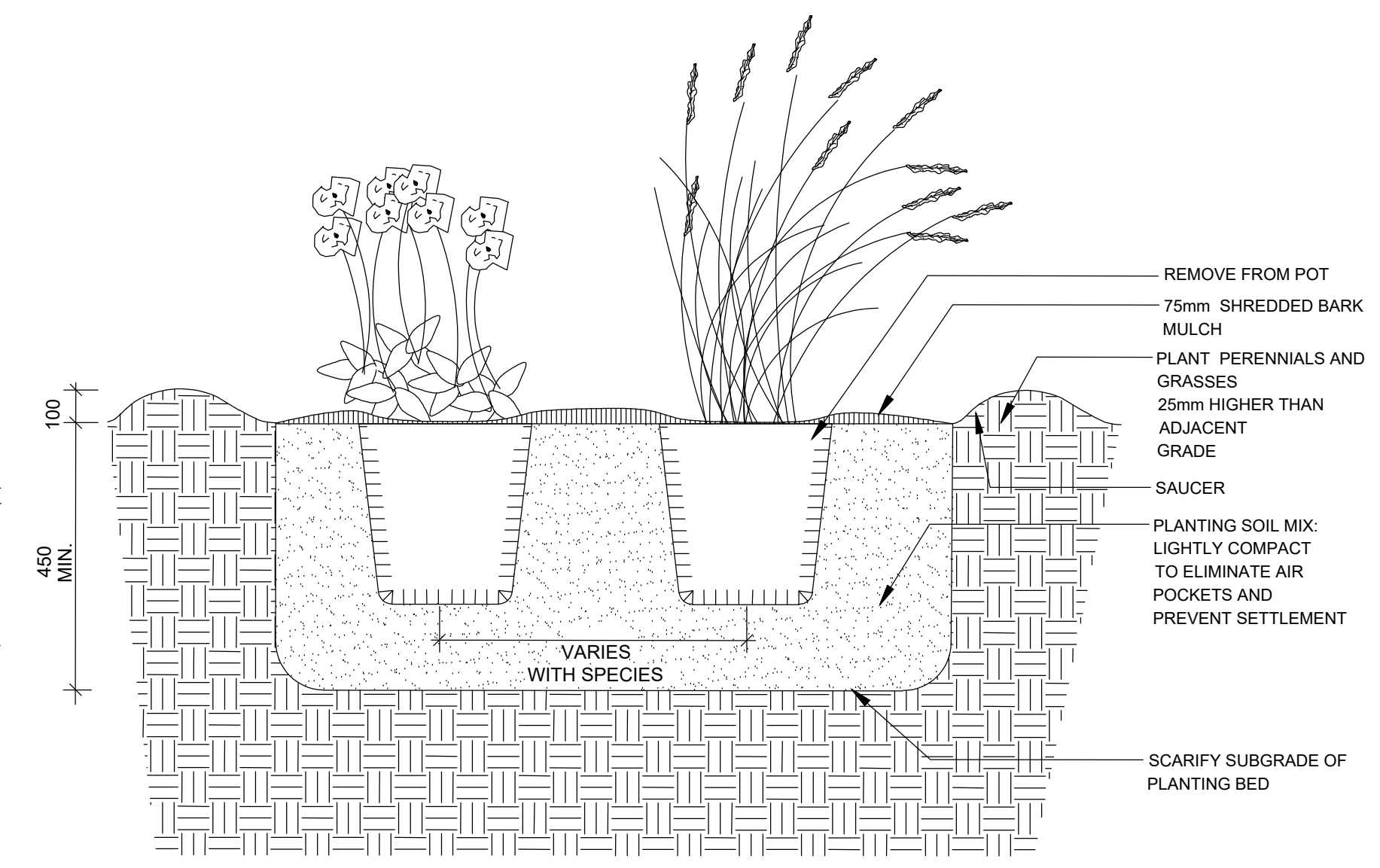
NOTES:
1. ALL MEASUREMENTS IN MM UNLESS OTHERWISE NOTED.
2. LOCATION AS SPECIFIED ON THE DETAILED DESIGN DRAWINGS.
3. PLANTING SOIL MIXTURE AS PER NOTES.

1 DECIDUOUS TREE PLANTING
SCALE NTS



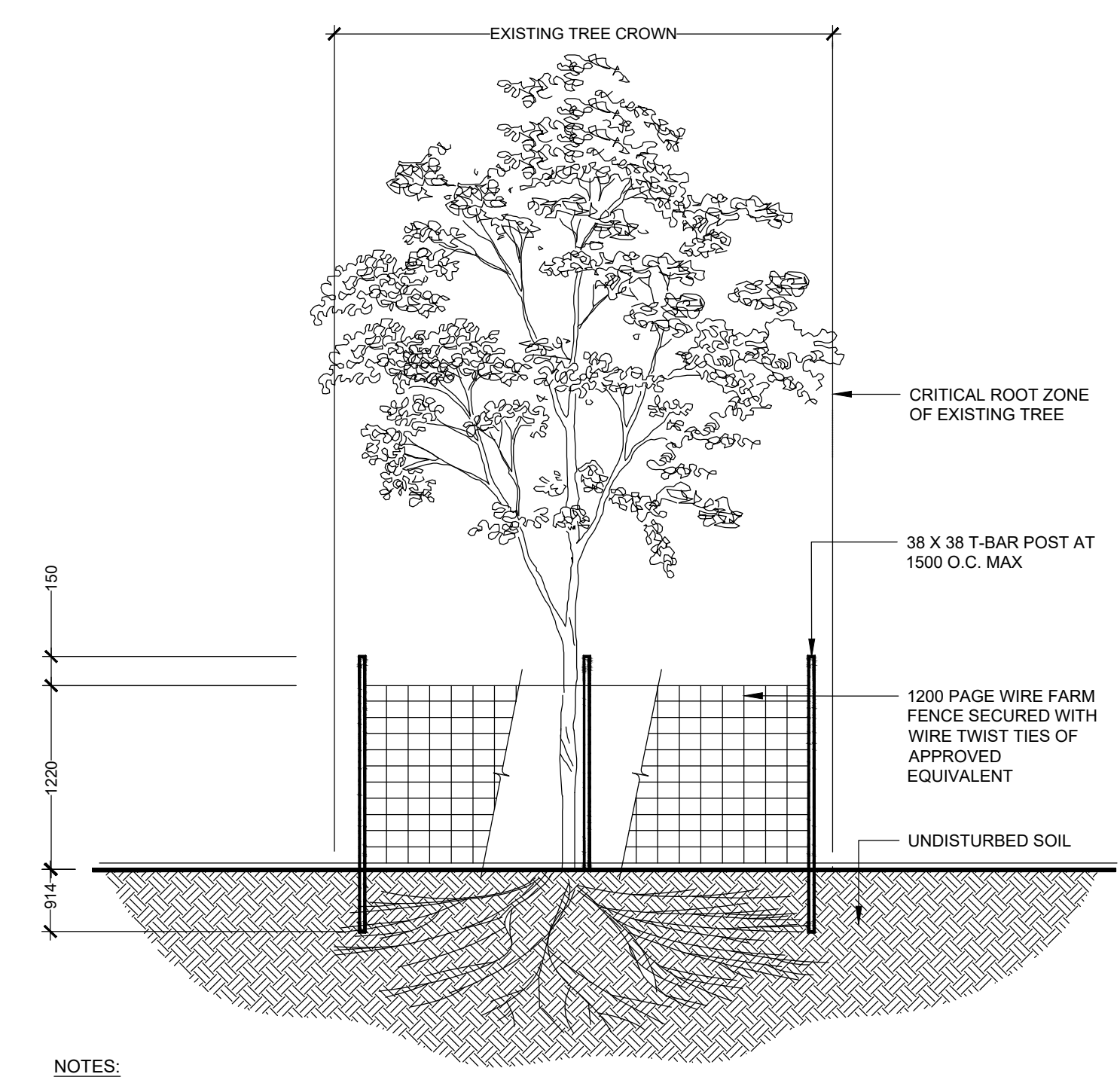
NOTES:
1. PLANTING SOIL MIXTURE AS PER NOTES.
2. PROVIDE 100MM HIGH EARTH SAUCER AROUND SHRUB BED.
3. STAKES TO BE REMOVED AT COMPLETION OF TWO YEAR WARRANTY PERIOD.

2 CONTINUOUS SHRUB BED PLANTING
SCALE NTS



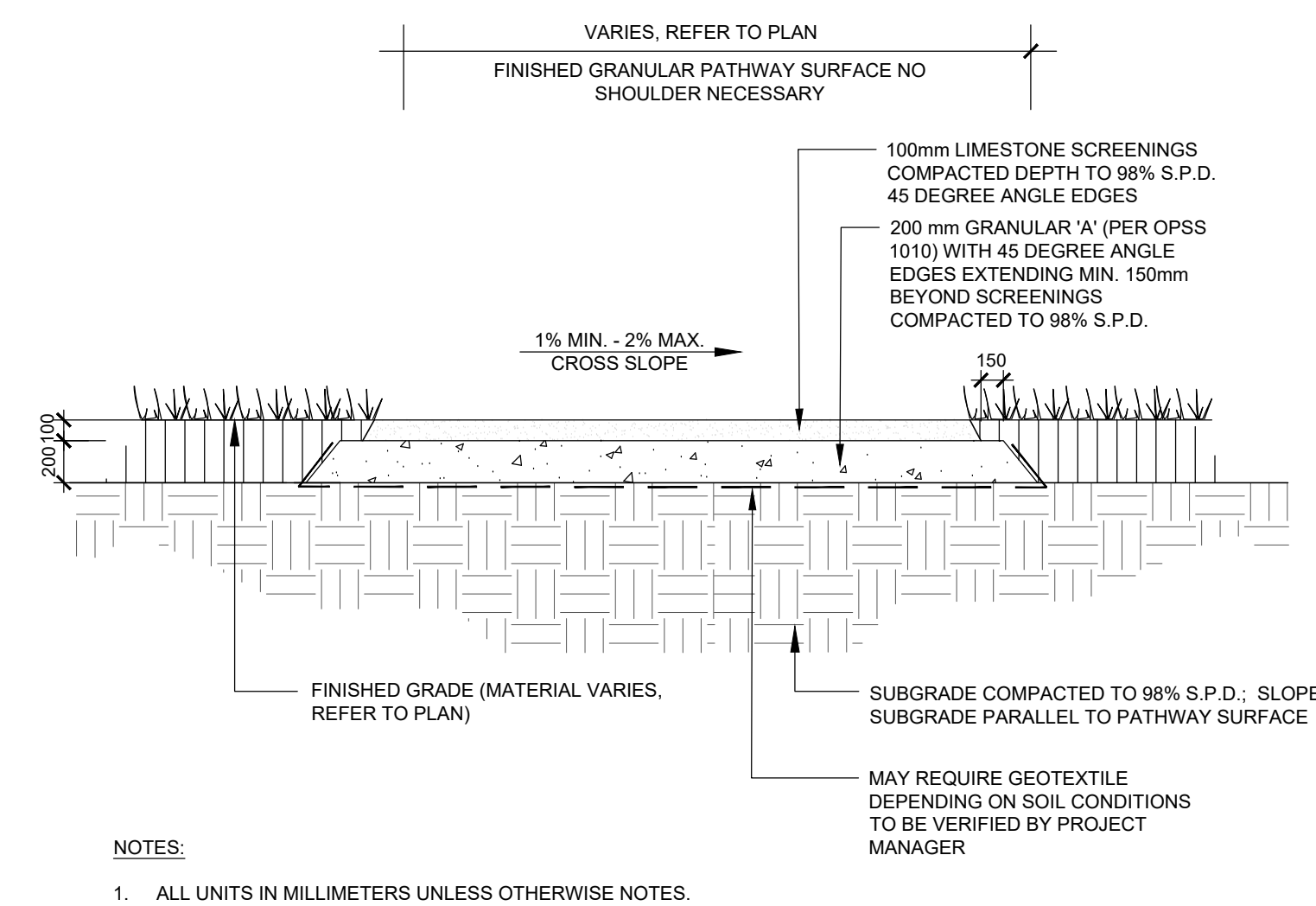
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PLANTING SOIL MIXTURE AS PER NOTES.
3. PROVIDE 100MM HIGH EARTH SAUCER AROUND PERENNIAL/GRASS BED.
4. MULCH SHALL NOT PILE UP AGAINST BASE OF PERENNIALS.

3 PERENNIAL AND ORNAMENTAL GRASS PLANTING
SCALE NTS

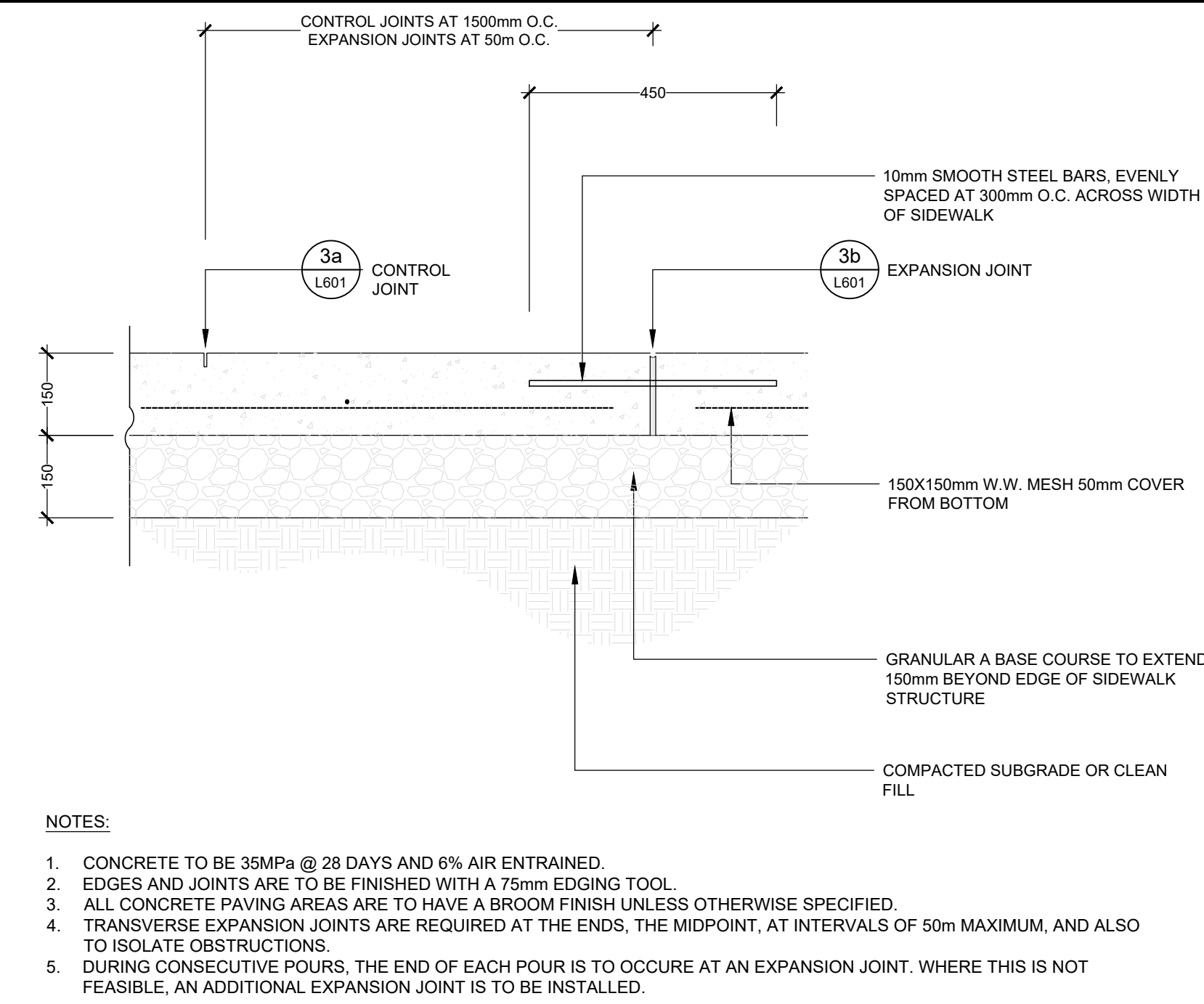


NOTES:
1. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. THE AREA WITHIN THE CRITICAL ROOT ZONE OF ALL EXISTING TREES SHALL BE PROPERLY PROTECTED WITH TEMPORARY FENCING AS PER THE APPROVED LANDSCAPE PLAN.
3. THE SURVEY SHALL SHOW EXISTING ELEVATION AT BASE OF ALL TREES TO BE PRESERVED AS SHOWN BY "+".
4. THE AREA WITHIN THE PROTECTED FENCING SHALL REMAIN UNDISTURBED AND SHALL NOT BE USED FOR THE STORAGE OF BUILDING MATERIALS OR EQUIPMENT. REMOVE ALL DEBRIS.
5. PRUNE BRANCHES TO REMOVE DAMAGED OR OBJECTIONABLE BRANCHES. DO NOT PRUNE LEADERS.
6. TREE PROTECTION SHALL REMAIN UNTIL SUBSTANTIAL PERFORMANCE OF THE PROJECT.
7. IF CUTTING OF ROOTS OR CHANGING OF GRADES AROUND EXISTING TREES IS CALLED FOR, FOLLOW APPROPRIATE DETAILS AS DIRECTED BY LANDSCAPE ARCHITECT.
8. IF TREES ARE BEING AFFECTED BY CONSTRUCTION, A WATER AND FERTILIZING PROGRAM WILL BE REQUIRED TO THE SATISFACTION OF THE MUNICIPALITY.

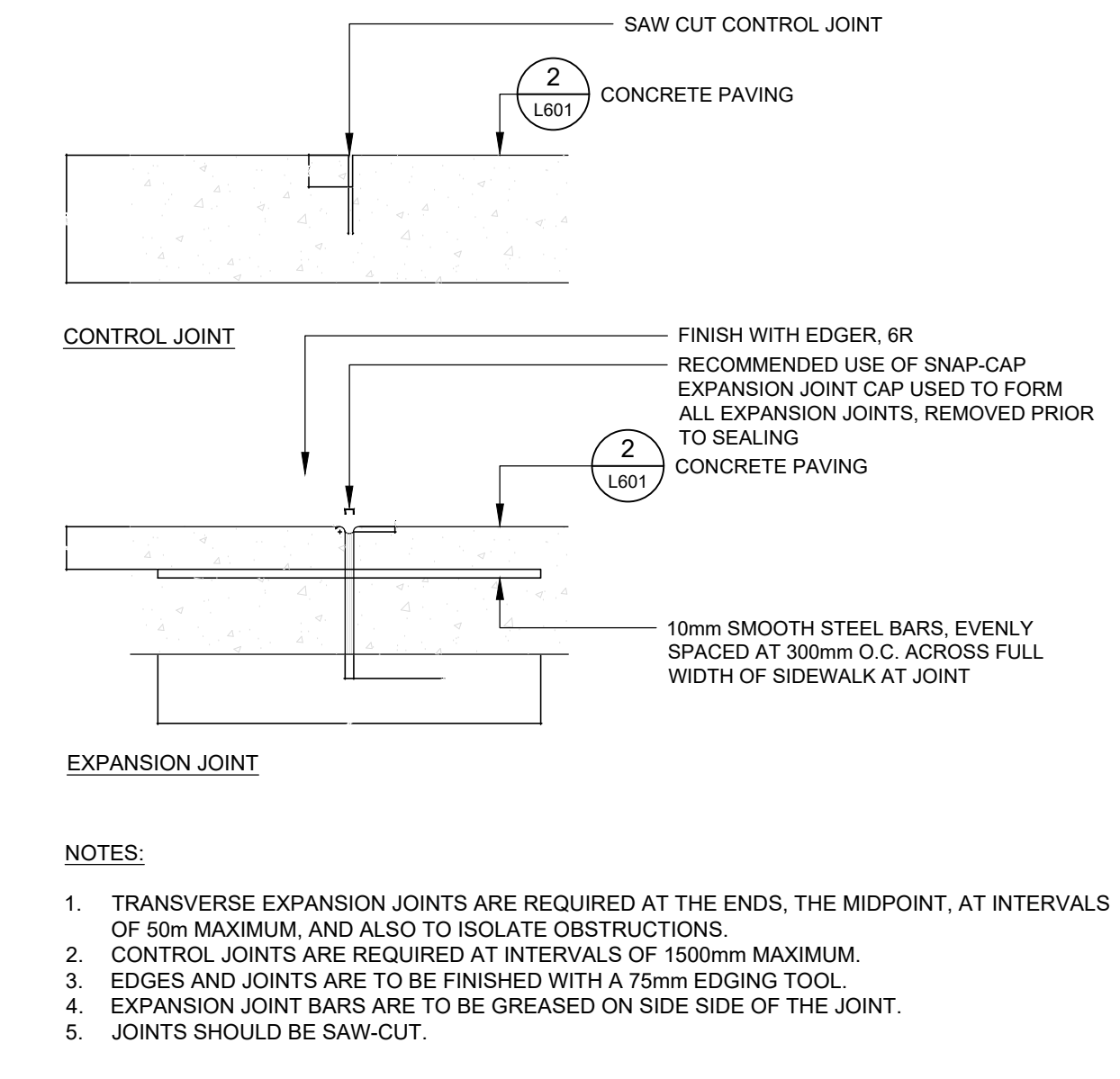
4 TREE PROTECTION FENCING
SCALE 4



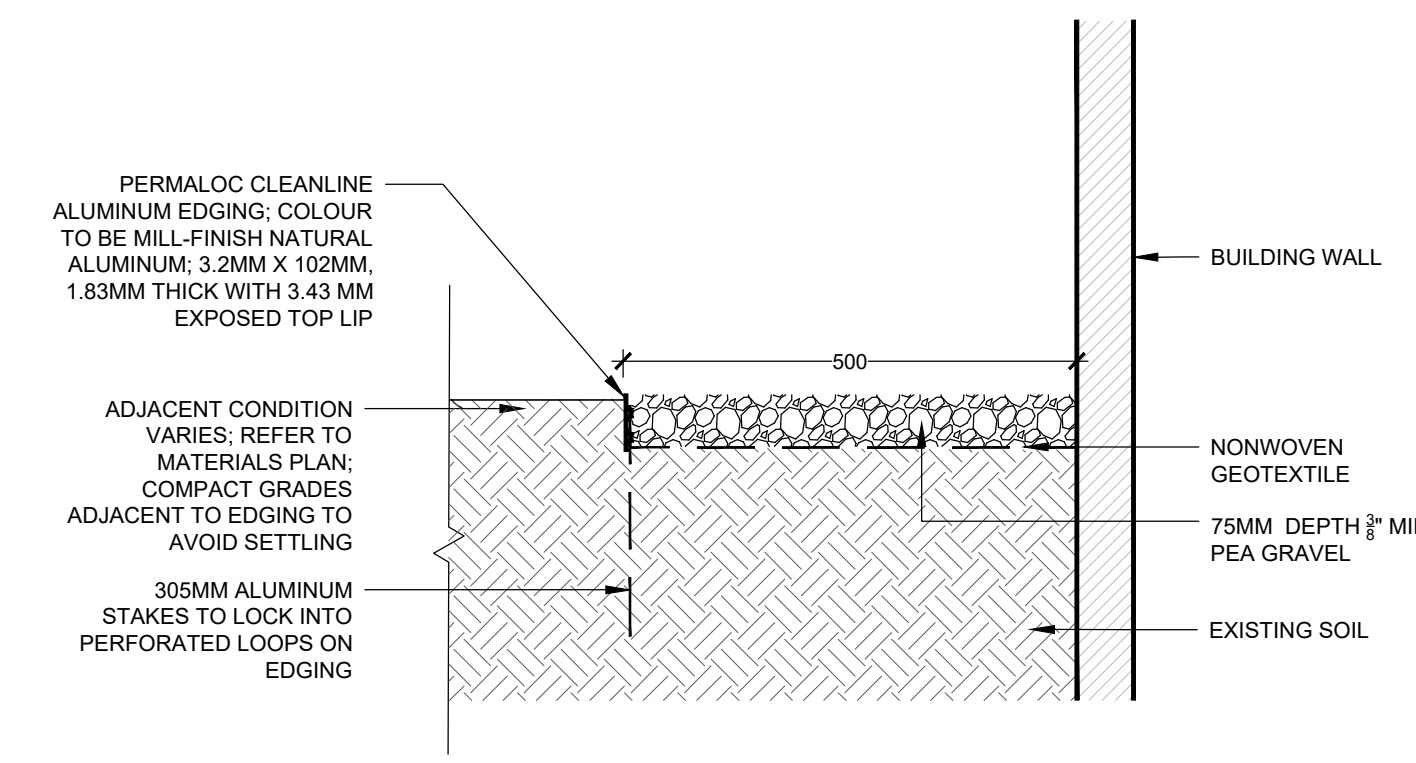
1 STONEDUST PATHWAY
SCALE NTS



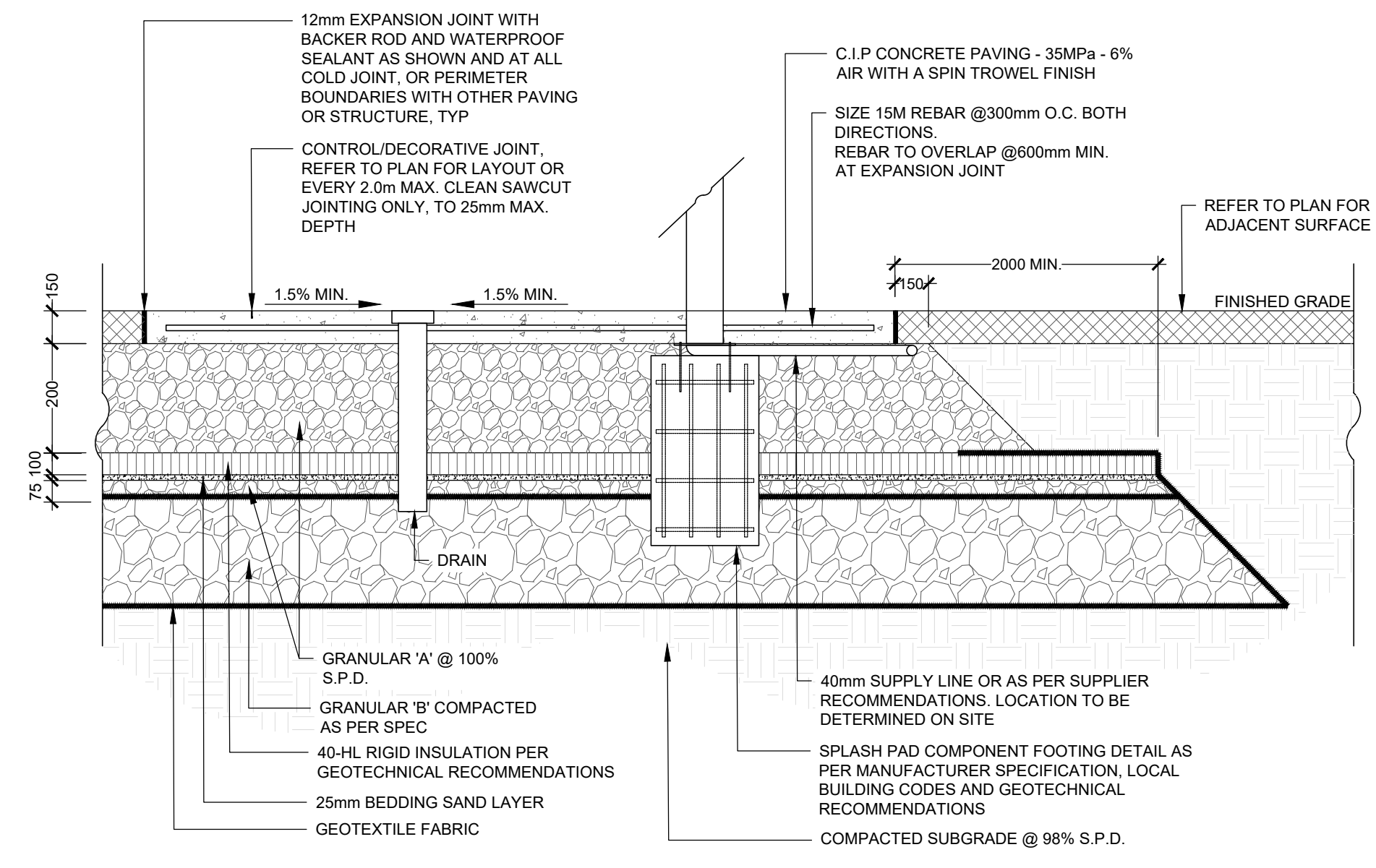
2 CONCRETE PAVING (WALKWAYS)
SCALE NTS



3 CONTROL JOINT AND EXPANSION JOINT
SCALE NTS



4 PEA GRAVEL DRIP STRIP
SCALE NTS



5 SPLASH PAD CONCRETE PAVING WITH INSULATION
SCALE NTS



CONSULTANT:

CLIENT:

MUNICIPALITY OF NORTH GRENVILLE

CLIENT REF. # --

PROJECT:

RIVERSIDE PARK POOL HOUSE

KEY PLAN:

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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
2	2022.06.21	ISSUED FOR TENDER
1	2022.06.07	DRAFT TENDER FOR COORDINATION

PROJECT NO: 219-00153-00

DATE: JUNE 2022

ORIGINAL SCALE: 1:200

DESIGNED BY: LS

DRAWN BY: LS

CHECKED BY: AG

DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE: LANDSCAPE DETAILS SHEET 2

SHEET NUMBER: L601

SHEET # OF: --

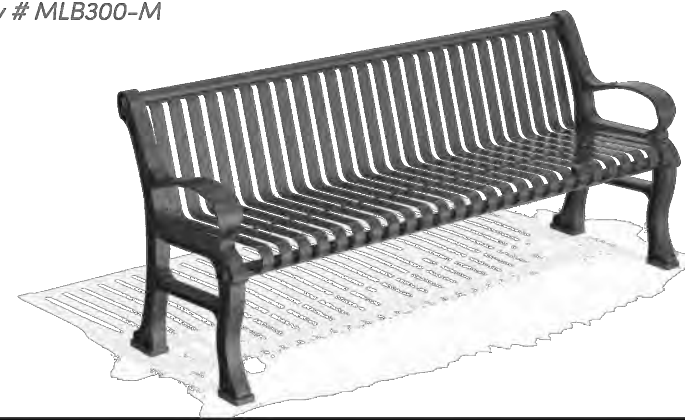
ISSUE: --

REV #: 2

DATE OF: --

MBE-0300-00014
Legacy # MLB300-M

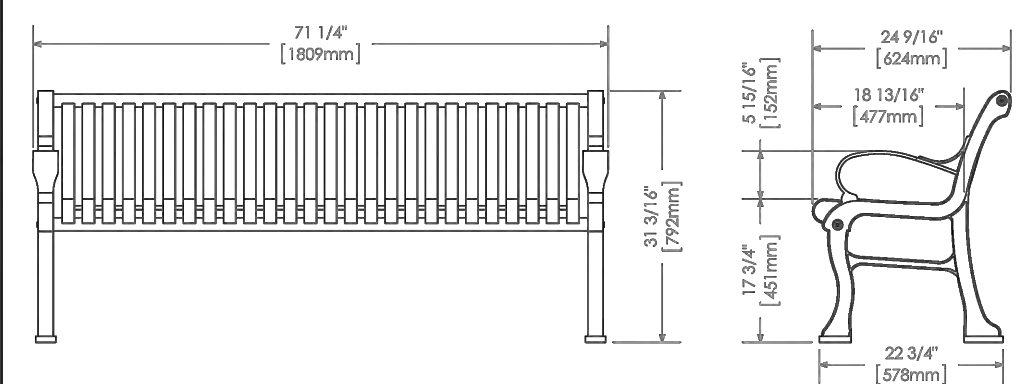
300 SERIES



MATERIALS: Bench ends are made from solid cast aluminum. The seat employs flat bar straps and H.S. steel tube.
FINISH: All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.
INSTALLATION: The bench is delivered pre-assembled. Holes (0.87") are provided in each foot for securing to base.

TO SPECIFY: Select MBE-0300-00014
Choose:
- Powdercoat Color

HEIGHT: 31.19" (792cm) LENGTH: 71.25" (1809cm) DEPTH: 24.56" (624cm) WEIGHT: 130.3 lbs (59.1kg)



MAGLIN
Site Furniture
1-800-776-8888
1-877-388-8888
www.maglin.com
info@maglin.com

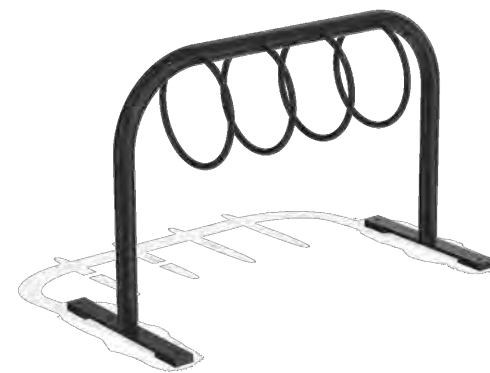
NOTES:

- BENCH SHALL BE MBE-0300-00014, SURFACE MOUNT, BY MAGLIN SITE FURNISHINGS OR APPROVED EQUAL
- BENCHES SHALL BE BLACK POWDERCOATED IN COLOUR.

1 BENCH
SCALE NTS

MBR-0300-00003
Legacy # MBR300-4-S

300 SERIES

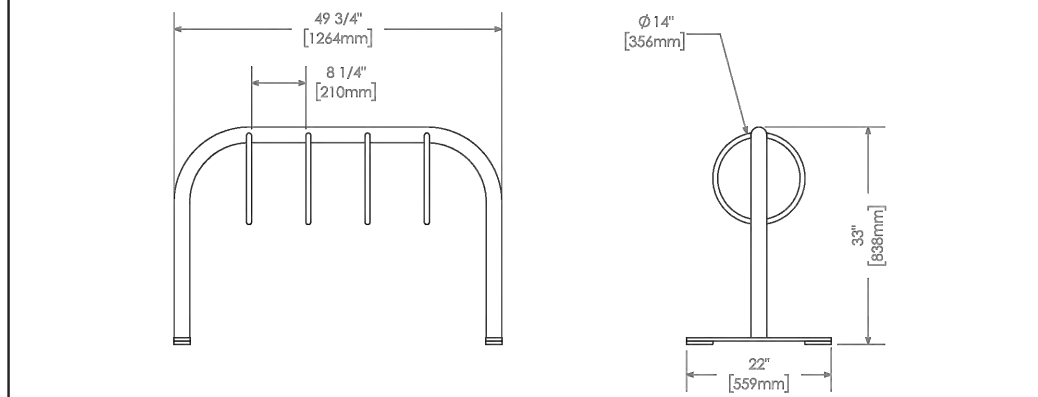


MATERIALS: All parts are made from solid steel rod and H.S. steel tube.
FINISH: All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.

INSTALLATION: The bike rack is delivered pre-assembled.

TO SPECIFY: Select MBR-0300-00003
Choose:
- Powdercoat Color

HEIGHT: 31.81" (808cm) LENGTH: 49.72" (1262cm) DEPTH: 22.00" (559cm) WEIGHT: 110.90 lbs (50.3kg)

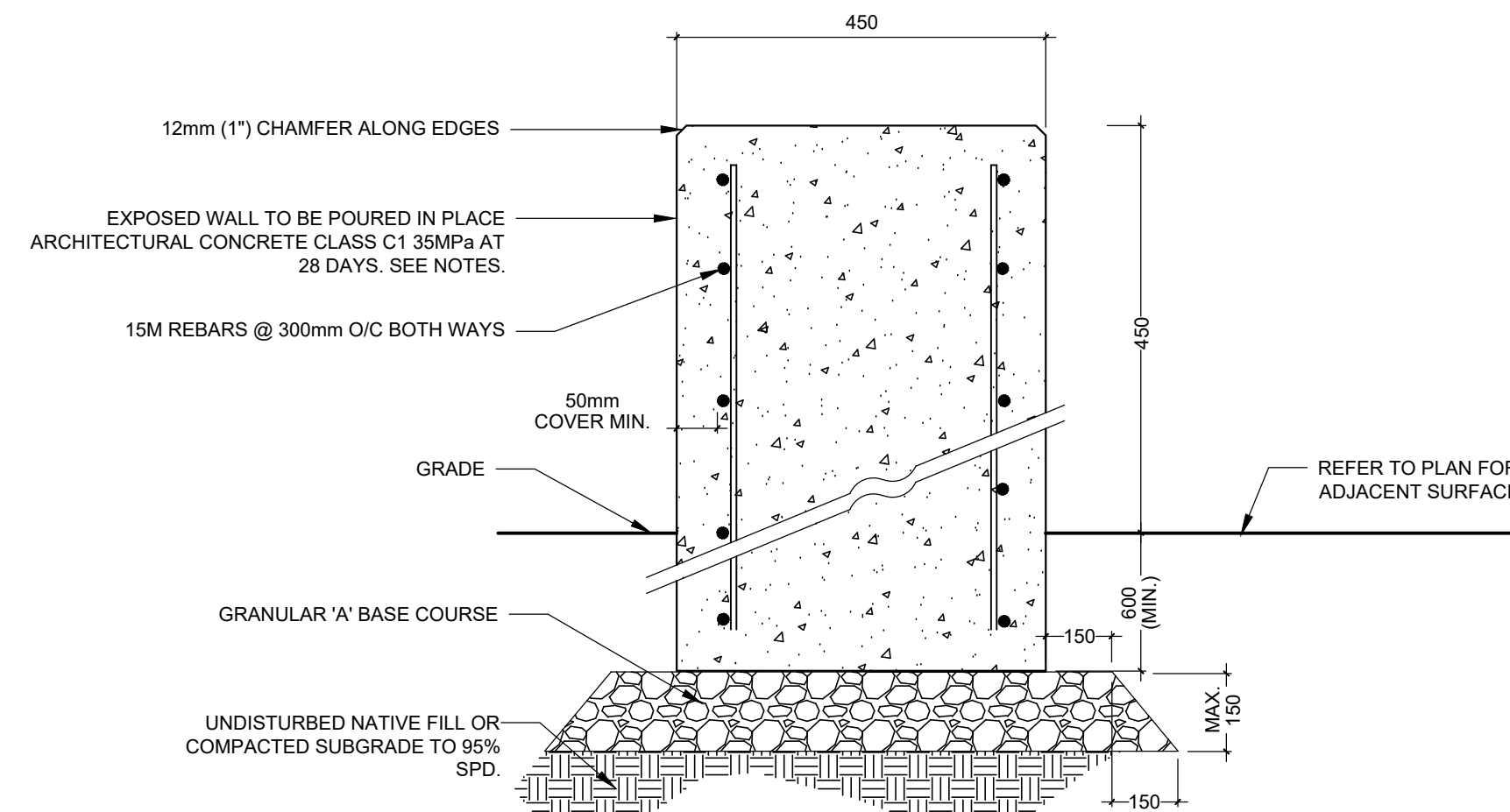


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1-877-388-8888
www.maglin.com
info@maglin.com

NOTES:

- BIKE RACK SHALL BE MBR-0300-00003, SURFACE MOUNT, BY MAGLIN SITE FURNISHINGS OR APPROVED EQUAL
- BIKE RACK SHALL BE BLACK POWDERCOATED IN COLOUR.

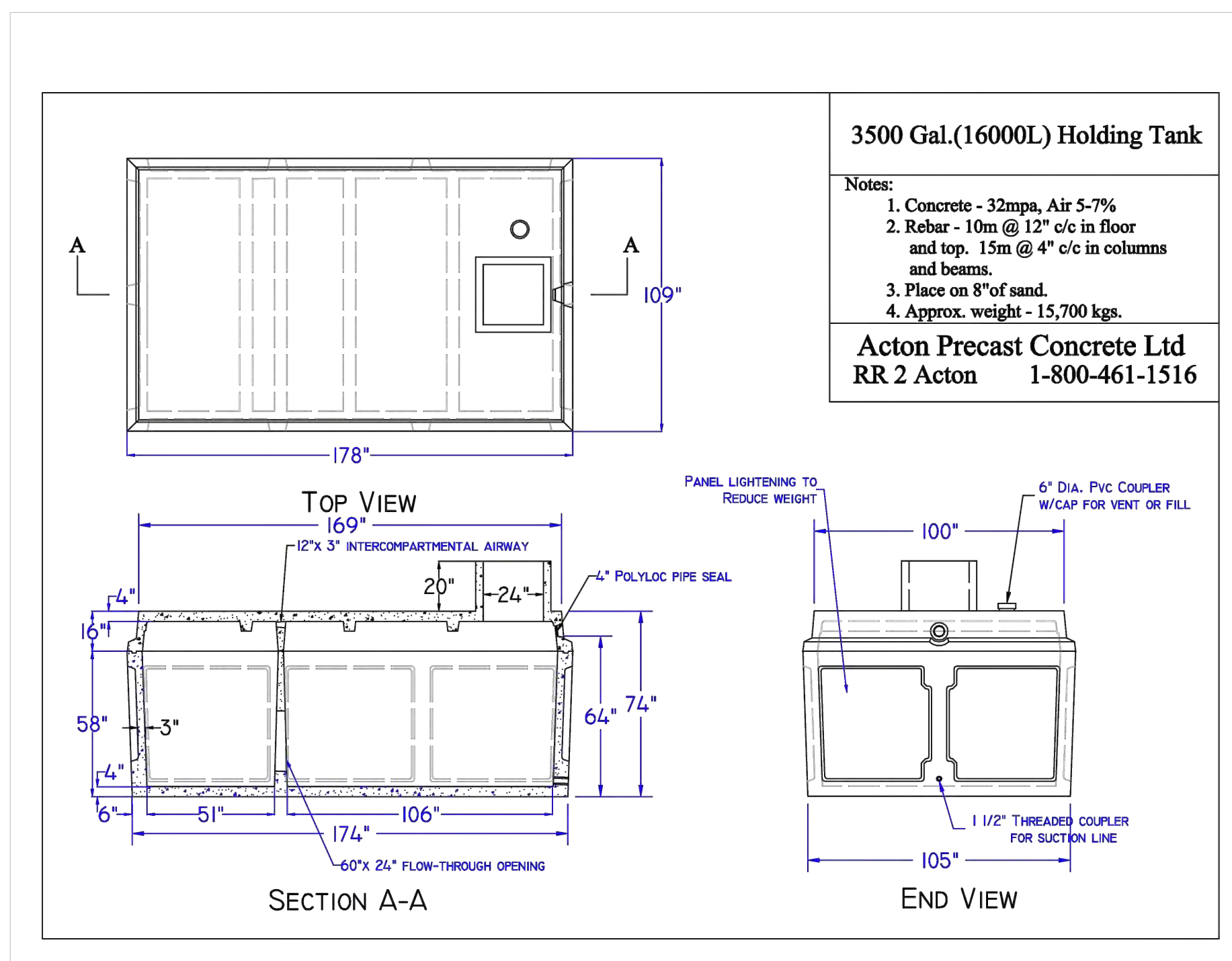
2 BIKE RACK
SCALE NTS



NOTES:

- WALLS TO BE POURED USING NEW FORM BOARD WITH RELEASE AGENTS.
- ALL WALL FOUNDATIONS TO BE MINIMUM OF 600 mm BELOW FINISHED GRADE.
- WALLS TO HAVE HEAVY SANDBLAST FINISH. ALL ROUGH EDGES TO BE GROUND SMOOTH AND FLUSH.
- REBAR: 15m REINFORCEMENT BARS EXTENDED VERTICALLY AND HORIZONTALLY THROUGH CONCRETE FOOTING EQUALLY SPACED WITH MAXIMUM 300mm O.C. SPACING. 10M X800 DOWELS @800 C/C.
- CONTRACTOR TO SUPPLY ENGINEER STAMPED SHOP DRAWINGS FOR APPROVAL BY THE CONSULTANT.

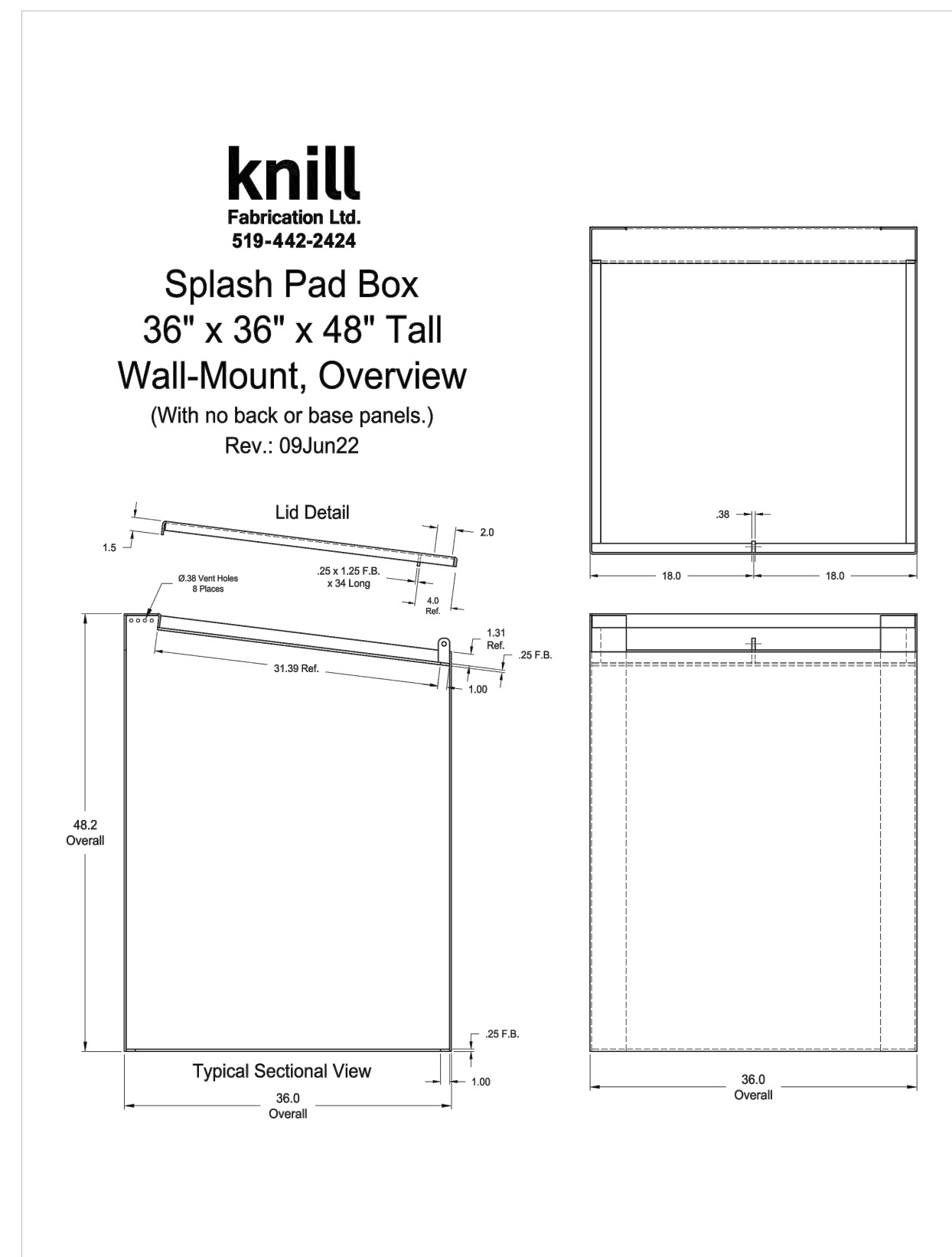
3 CONCRETE SEAT WALL
SCALE NTS



NOTES:

- SPLASH PAD HOLDING TANK SHALL BE 3500 GAL. BY ACTON PRECAST CONCRETE LTD (OR APPROVED EQUAL) AND/OR PER SPLASH PAD SUPPLIER RECOMMENDATIONS FOR HOLDING CAPACITY AND SIZE
- REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

4 HOLDING TANK
SCALE NTS



NOTES:

- SPLASH PAD RECIRCULATION SYSTEM CHEMICAL STORAGE CABINETS SHALL BE KNILL FABRICATION SPLASH PAD BOX 36" X 36" X 48" (OR APPROVED EQUAL) AND/OR PER SUPPLIER RECOMMENDATIONS.
- REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

5 CHEMICAL STORAGE CABINETS
SCALE NTS



2611 QUEENSVIEW DRIVE, SUITE 300
OTTAWA, ONTARIO
CANADA K2B 8K2
PHONE: 613-829-2900
WWW.WSP.COM

CONSULTANT:

SEAL:

CLIENT:

MUNICIPALITY OF
NORTH GRENVILLE

CLIENT REF. # --

PROJECT:

RIVERSIDE PARK
POOL HOUSE

KEY PLAN:

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ISSUED FOR - REVISION:

IS	RE	DATE	DESCRIPTION
2		2022.06.21	ISSUED FOR TENDER
1		2022.06.07	DRAFT TENDER FOR COORDINATION

PROJECT NO:	219-00153-00	DATE:	JUNE 2022
ORIGINAL SCALE:	1:200		
DESIGNED BY:	LS		
DRAWN BY:	LS		
CHECKED BY:	AG		

DISCIPLINE: LANDSCAPE ARCHITECTURE

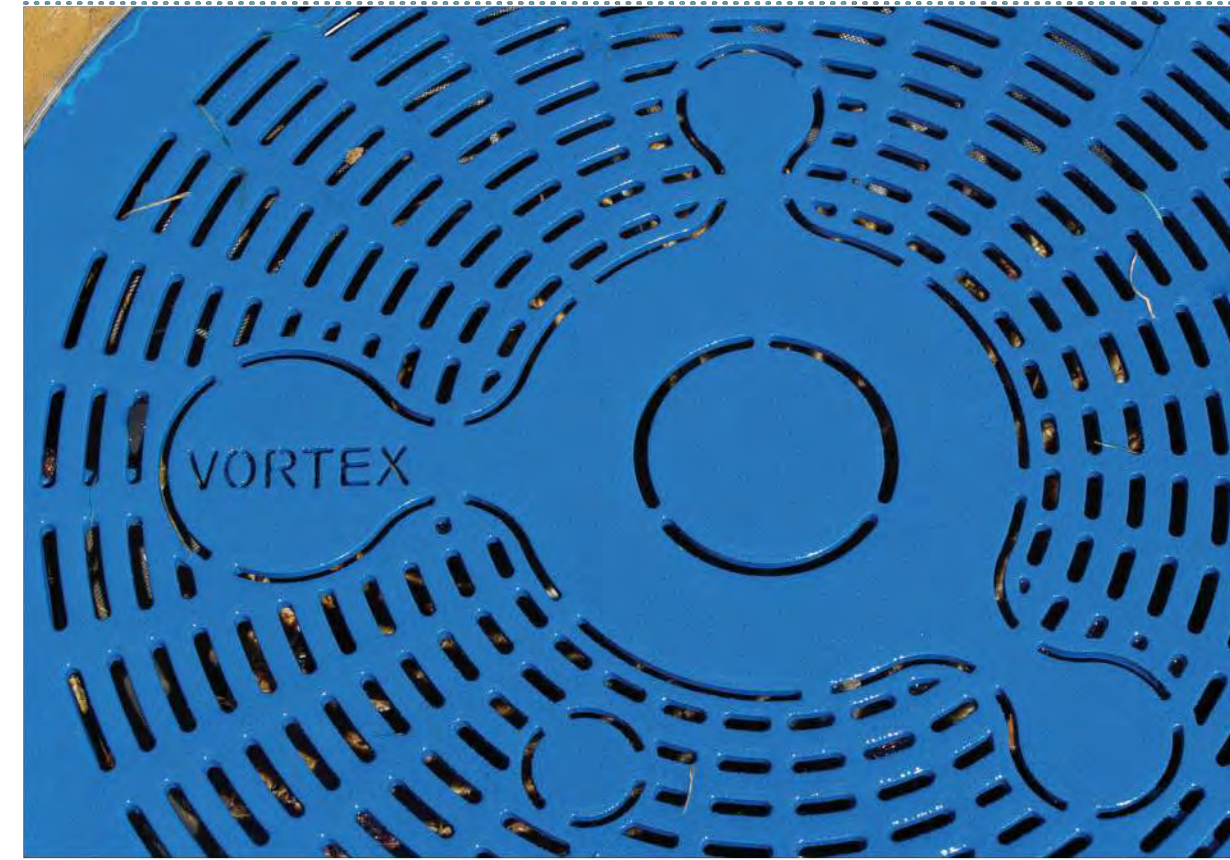
TITLE: LANDSCAPE DETAILS
SHEET 3

SHEET NUMBER: L602

SHEET #:	OF	REV #	
ISSUE:	--		
DATE OF:	--		2

PLAYSAFE™ DRAIN

WATER MANAGEMENT COMPONENT



PLAYSAFE™ DRAIN

- Primary filter of debris
- Safe for small toes and skid resistant
- Stainless steel construction and high flow rate capacity



NOTES:

1. SPLASH PAD DRAIN SHALL BE PLAYSAFE™ BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
2. REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

1
L603
DRAIN
SCALE NTS

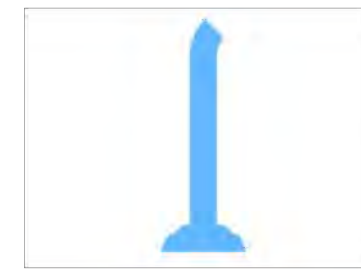


Ideal age group: 4 years and up

VOR 0611 ACTIVATOR N°3

PRODUCT HIGHLIGHTS

- Enables to activate the water sequence of play features
- Light signal to alert when the activator is activated
- Controls water consumption and helps reduce waste

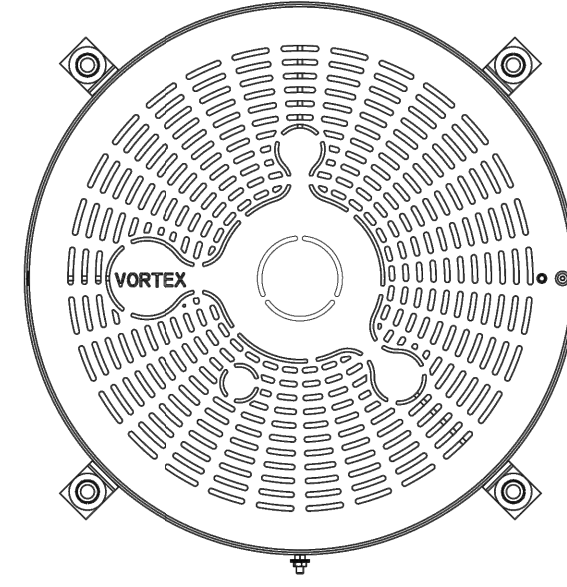


NOTES:

1. SPLASH PAD ACTIVATOR SHALL BE ACTIVATOR No.3 (VOR 0611) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
2. REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

2
L603
ACTIVATOR
SCALE NTS

PLAN VIEW



EXPANDED POLYPROPYLENE DRAIN BOX FOAM (BY VORTEX)

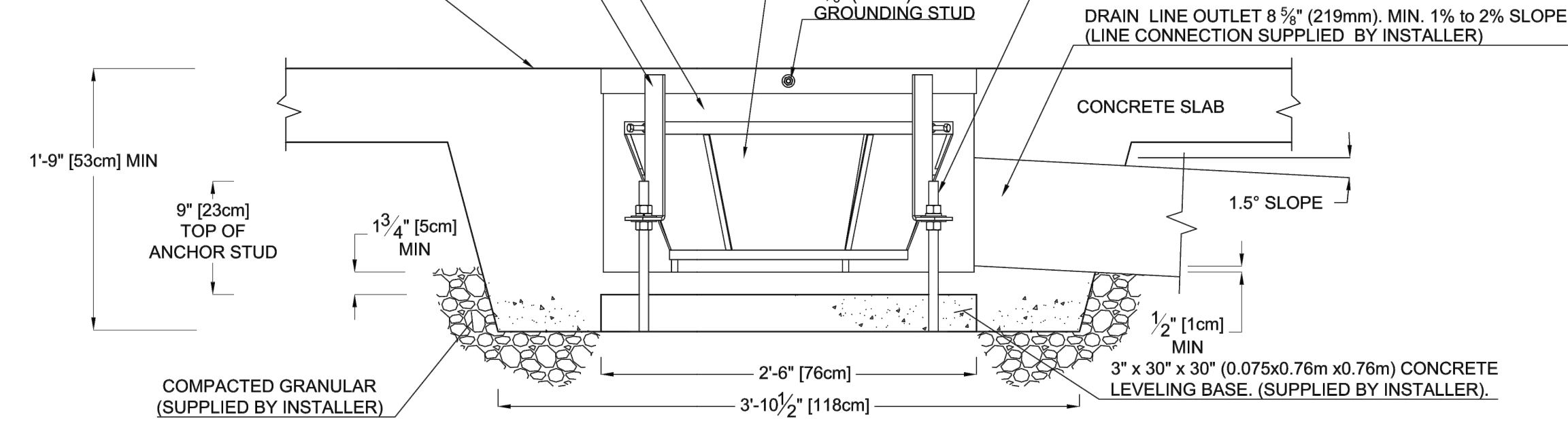
ANCHORING SYSTEM TO BE INSTALLED LEVEL, PLUMB & FLUSH TO FINISHED GRADE (BY INSTALLER)

CONCRETE SURFACE. VERIFY LOCAL CODES FOR TYPE, THICKNESS & REINFORCEMENT REQUIREMENTS (BY INSTALLER)

STRAINER BASKET (SOLD SEPARATELY)

4 X 3/4" (20mm) S.S. HEIGHT & LEVELING CONTROL ANCHOR STUDS WITH HARDWARE (BY VORTEX) DRILL & EPOXY GROUT STUDS (DONE BY INSTALLER)

FRONT ELEVATION VIEW



VOR-1001.4000 PLAYSAFE DRAIN, No1 (Construction Detail)

PRODUCT NAME: PLAYSAFE DRAIN, No1

PRODUCT INFORMATION

PRODUCT NUMBER: VOR-1001.4000

DATE: 06/10/22

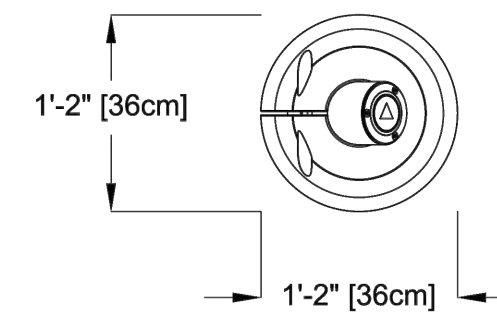
SHEET NO: 1/1

11"x17" SHEET SIZE

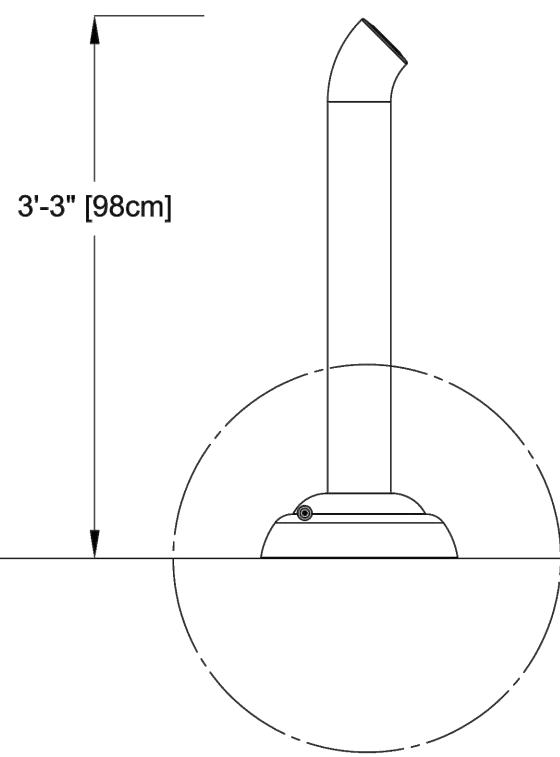


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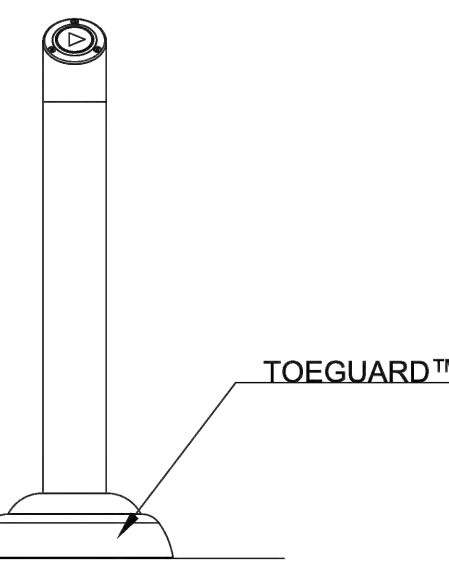
PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



TYPICAL ANCHORING SAFESWAP N°1

FOR THIS APPLICATION, 2" NPT FEMALE COUPLING OF THE SAFESWAP N°1 WILL BE USED TO CONNECT THE ELECTRICAL CONDUIT, SUPPLIED BY INSTALER, AND RUN THE ELECTRICAL CABLE.

ELECTRICAL SPECIFICATION
TYPICAL 40mA AT 24V, M12-5PIN CONNECTOR CABLE, 22AWG, MAXIMUM O.D. : 0.25"
(SUPPLIED UP TO 75M WITH ACTIVATOR BY VORTEX)

PRODUCT NAME: ACTIVATOR N°3

PRODUCT NUMBER: VOR-0611.2XXX

DATE: 2021/V1

SHEET NO: 1/1

11"x17" SHEET SIZE



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OTTAWA, ONTARIO
CANADA K2B 8K2
PHONE: 613-829-2900
WWW.WSP.COM

CONSULTANT:

SEAL:

CLIENT:

MUNICIPALITY OF
NORTH GRENVILLE

CLIENT REF. #

PROJECT:

RIVERSIDE PARK
POOL HOUSE

KEY PLAN:

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IS	RE	DATE	DESCRIPTION
2		2022.06.21	ISSUED FOR TENDER
1		2022.06.07	DRAFT TENDER FOR COORDINATION

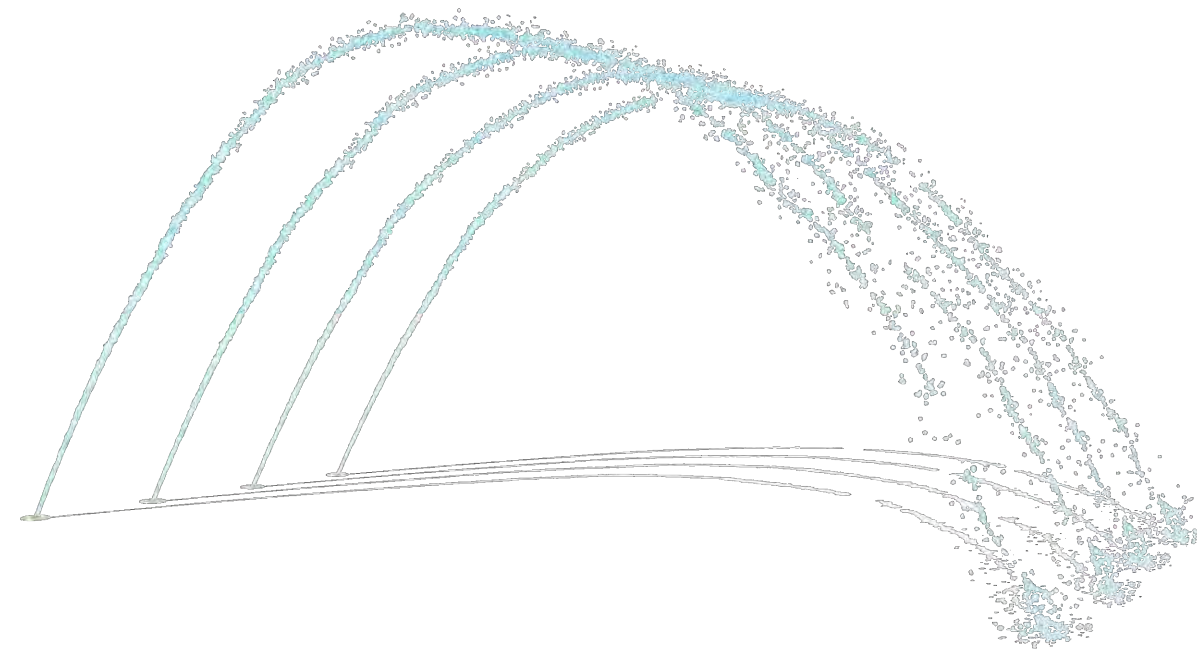
PROJECT NO:	219-00153-00	DATE:	.. JUNE 2022
ORIGINAL SCALE:	1:200		
DESIGNED BY:	LS		
DRAWN BY:	LS		
CHECKED BY:	AG		

DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE:
LANDSCAPE DETAILS
SHEET 4

SHEET NUMBER: L603

SHEET #	OF	REV #	2
ISSUE:	--		
DATE OF:	--		



Ideal age group: For all ages

VOR 0309 WATER TUNNEL N°2

PRODUCT HIGHLIGHTS

- Creates a tunnel water effect where kids can cross under
- Encourages different play opportunities
- Kids will enjoy running their hands and feet through the water



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+1.514.694.3868 (INTERNATIONAL)
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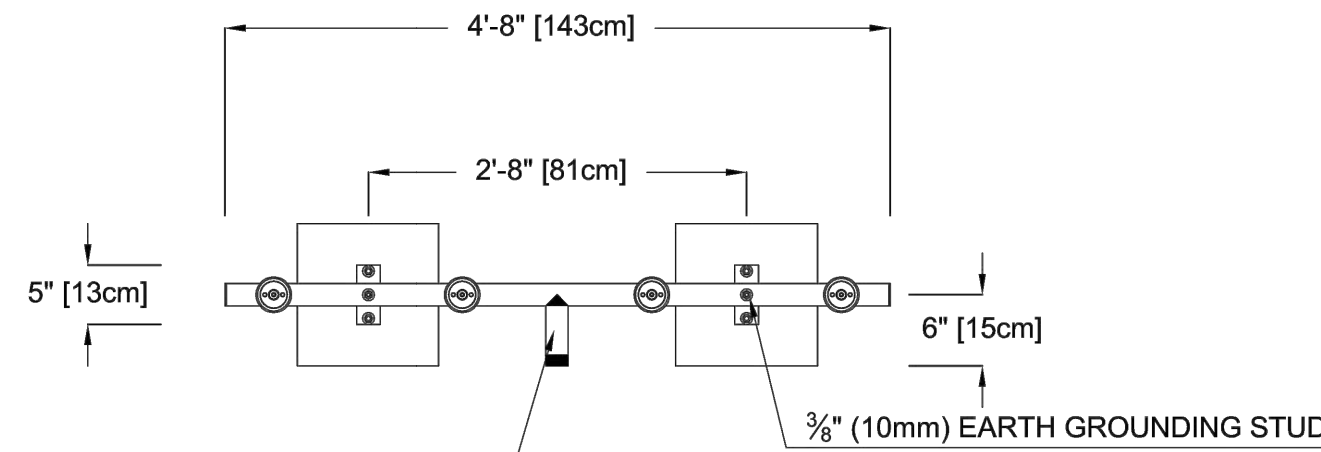
NOTES:

1. WATER TUNNEL TYPE SPRAY FEATURE SHALL BE WATER TUNNEL No.2 (VOR 0309) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
2. REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

1 WATER TUNNEL

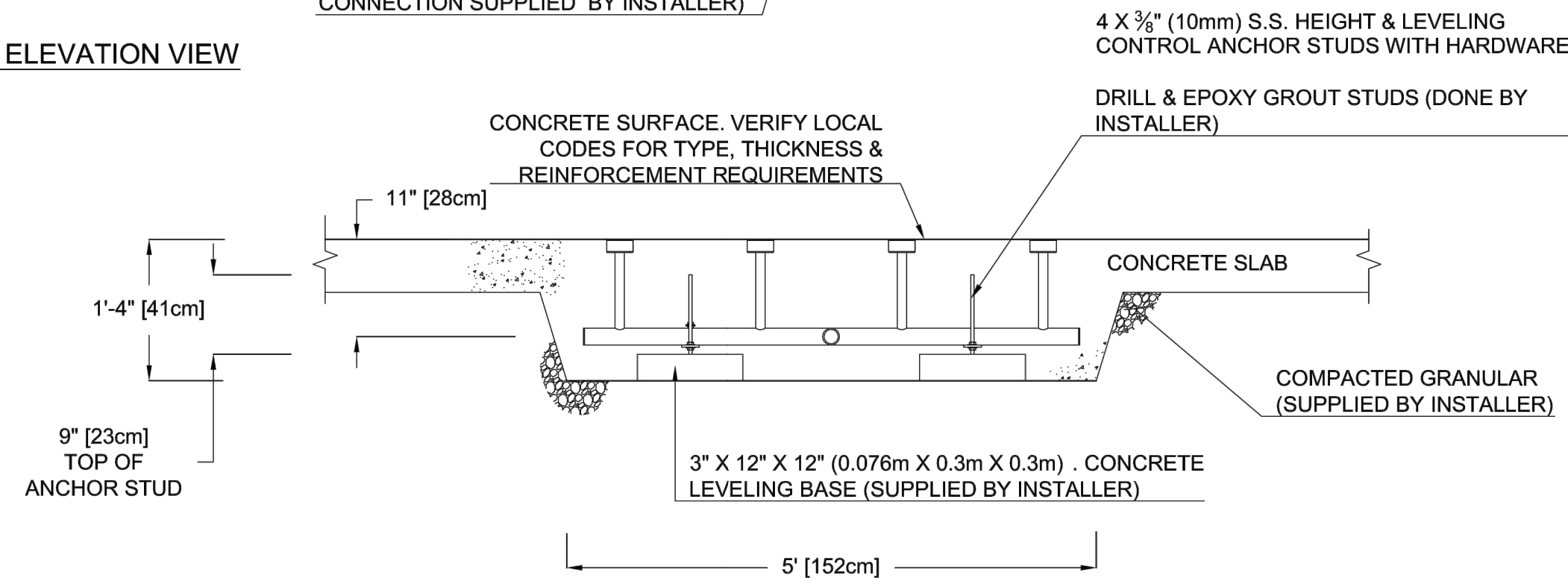
SCALE NTS

PLAN VIEW



WATER LINE INLET 1 1/2" (38mm) NPT. MIN. 2" SLOPE BACK TO WATER SUPPLY. REFER TO CONSTRUCTION DOCUMENTS FOR LINE SIZE DETAILS. (LINE CONNECTION SUPPLIED BY INSTALLER)

FRONT ELEVATION VIEW



VOR-309.0000 WATER TUNNEL N°2 (Construction Detail)

PRODUCT NAME: WATER TUNNEL N°2

PRODUCT INFORMATION

PRODUCT NUMBER: VOR-309.0000

DATE: 11/03/11

SHEET NO: 1/1

11"x17" SHEET SIZE



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OTTAWA, ONTARIO
CANADA K2B 8K2
PHONE: 613-829-2900
WWW.WSP.COM

CONSULTANT:

SEAL:

CLIENT:

MUNICIPALITY OF
NORTH GRENVILLE

CLIENT REF. # --

PROJECT:

RIVERSIDE PARK
POOL HOUSE

KEY PLAN:

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ISSUED FOR - REVISION:

IS	RE	DATE	DESCRIPTION
2		2022.06.21	ISSUED FOR TENDER
1		2022.06.07	DRAFT TENDER FOR COORDINATION

PROJECT NO: 219-00153-00 DATE: JUNE 2022

ORIGINAL SCALE: 1:200

DESIGNED BY: LS

DRAWN BY: LS

CHECKED BY: AG

DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE: LANDSCAPE DETAILS SHEET 5

SHEET NUMBER: L604

SHEET # OF REV #

ISSUE: --

DATE OF: --

2

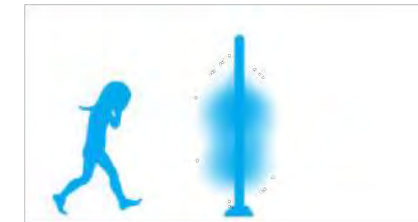


Ideal age group: For all ages

VOR 0519 SPRAY LOOP

PRODUCT HIGHLIGHTS

- Cross through the misty water effect for an instant soak
- Encourages different types of game playing



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+1.514.694.3868 (International)

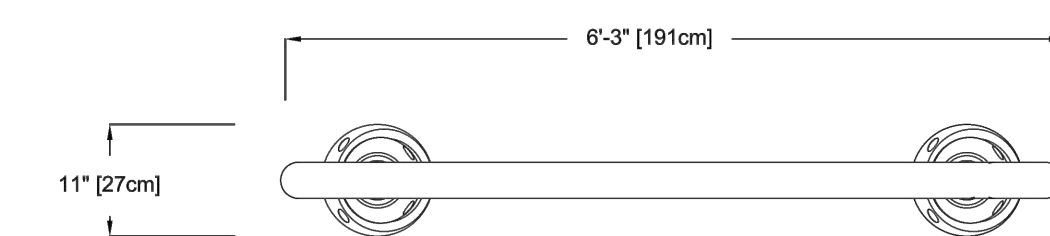
NOTES:

1. LOOP TYPE SPRAY FEATURE SHALL BE SPRAY LOOP (VOR 0519) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
2. REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

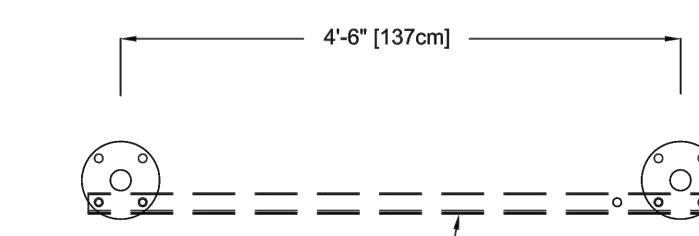
2 SPRAY LOOP

SCALE NTS

PLAN VIEW

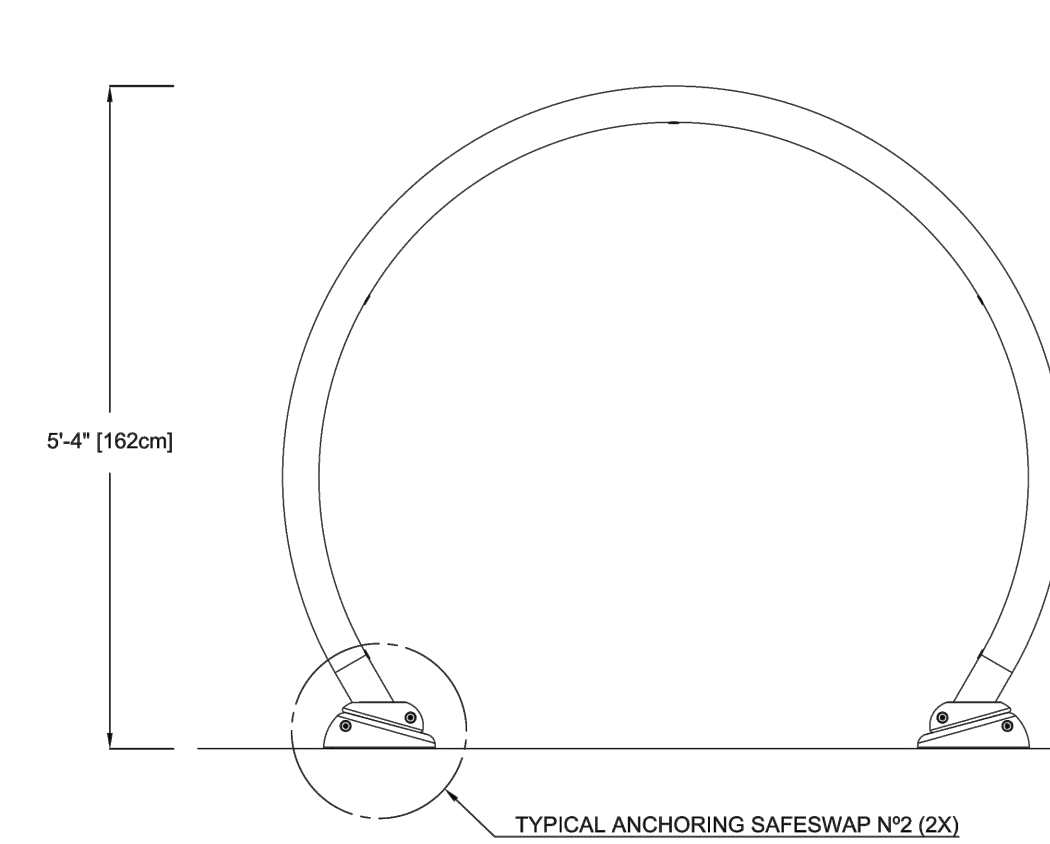


ANCHORING LOCATIONS

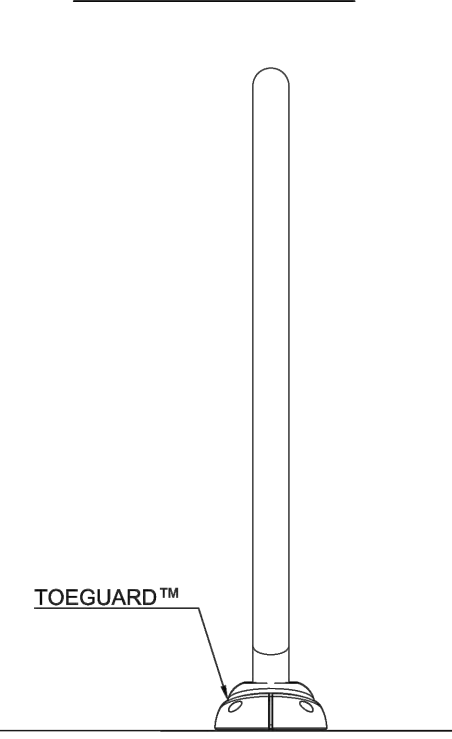


INSTALLATION TEMPLATE (TOOL KIT #55002.1166)
REFER TO MAINTENANCE MANUAL FOR INSTRUCTIONS ON
INSTALLATION DETAIL AND TOOL KIT #55002.1166 MUST BE USED
DURING CONCRETE POURING FOR THE PLACEMENT OF THE
SAFESWAP TO ENSURE CORRECT PLACEMENT FOR FEATURES.

FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



PRODUCT NAME: SPRAY LOOP

PRODUCT INFORMATION

PRODUCT NUMBER: VOR-0519.2XXX

DATE: 05/22/14

SHEET NO: 1/1

11"x17" SHEET SIZE



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Ideal age group: For all ages

VOR 0555 AQUA DOME N°1

PRODUCT HIGHLIGHTS

- Mesmerizing laminar bell shaped water effect
- Encourages different types of game playing



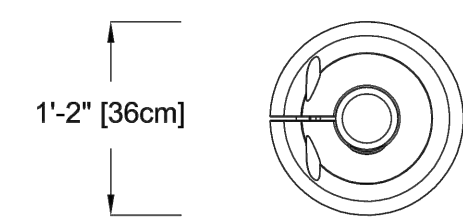
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1.877.586.7839 (free USA/Canada) • +1.514.694.3868 (International)

NOTES:

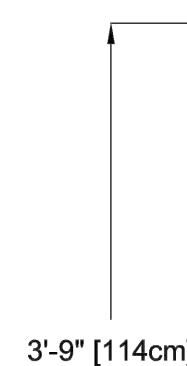
1. DOME TYPE SPRAY FEATURE SHALL BE AQUA DOME No.1 (VOR 0555) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
2. REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

1
L605
AQUA DOME
SCALE NTS

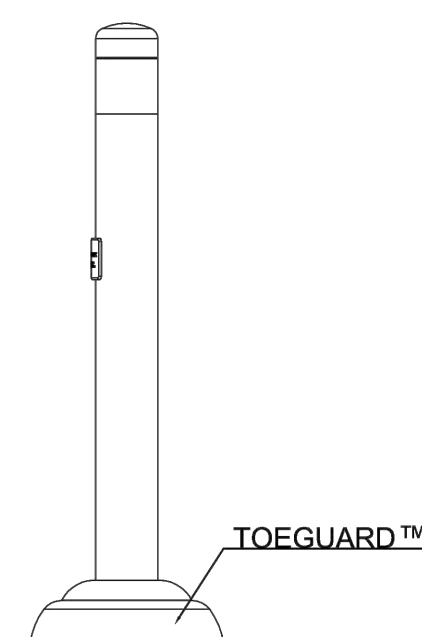
PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



TYPICAL ANCHORING SAFESWAP N°1

VOR-0555.2XXX AQUA DOME N°1 (Construction Detail)

PRODUCT NAME: AQUA DOME N°1	PRODUCT INFORMATION		
PRODUCT NUMBER: VOR-0555.2XXX	DATE: 05/02/11	SHEET NO: 1/1	11"x17" SHEET SIZE



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CONSULTANT:

SEAL:

CLIENT:

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CLIENT REF. # --

PROJECT:

RIVERSIDE PARK
POOL HOUSE

KEY PLAN:

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IS	RE	DATE	DESCRIPTION
2		2022.06.21	ISSUED FOR TENDER
1		2022.06.07	DRAFT TENDER FOR COORDINATION

PROJECT NO: 219-00153-00 DATE: JUNE 2022

ORIGINAL SCALE: 1:200

DESIGNED BY: LS

DRAWN BY: LS

CHECKED BY: AG

DISCIPLINE: LANDSCAPE ARCHITECTURE

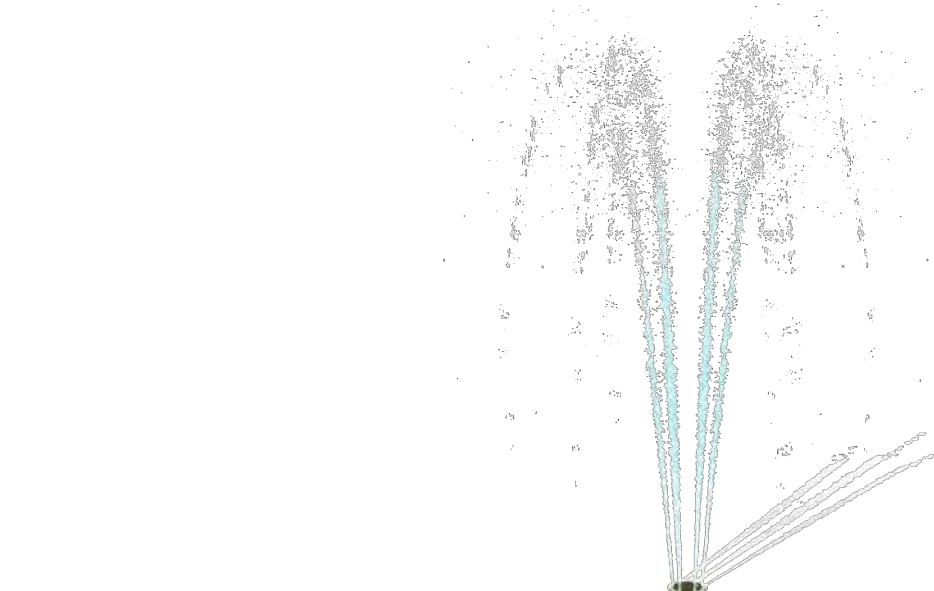
TITLE: LANDSCAPE DETAILS SHEET 6

SHEET NUMBER: L605

SHEET # OF

ISSUE: -- REV #

DATE OF: -- 2



Ideal age group: For all ages

VOR 0301 GEYSER N°1

PRODUCT HIGHLIGHTS

- Exciting water effect from the ground for an immersive play
- Kids will enjoy running their hands and legs through the water



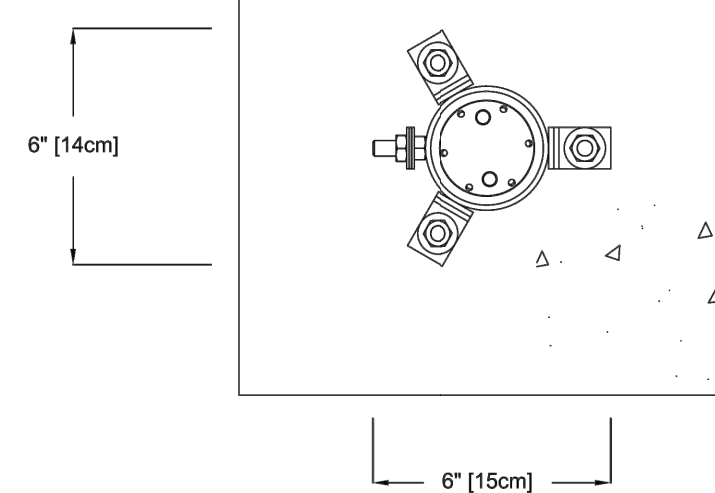
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NOTES:

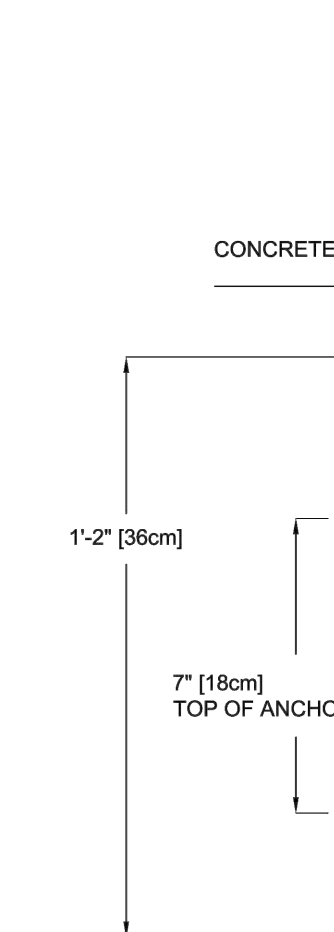
1. GEYSER TYPE SPRAY FEATURE SHALL BE GEYSER No.1 (VOR 0301) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
2. REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

2
L605
GEYSER
SCALE NTS

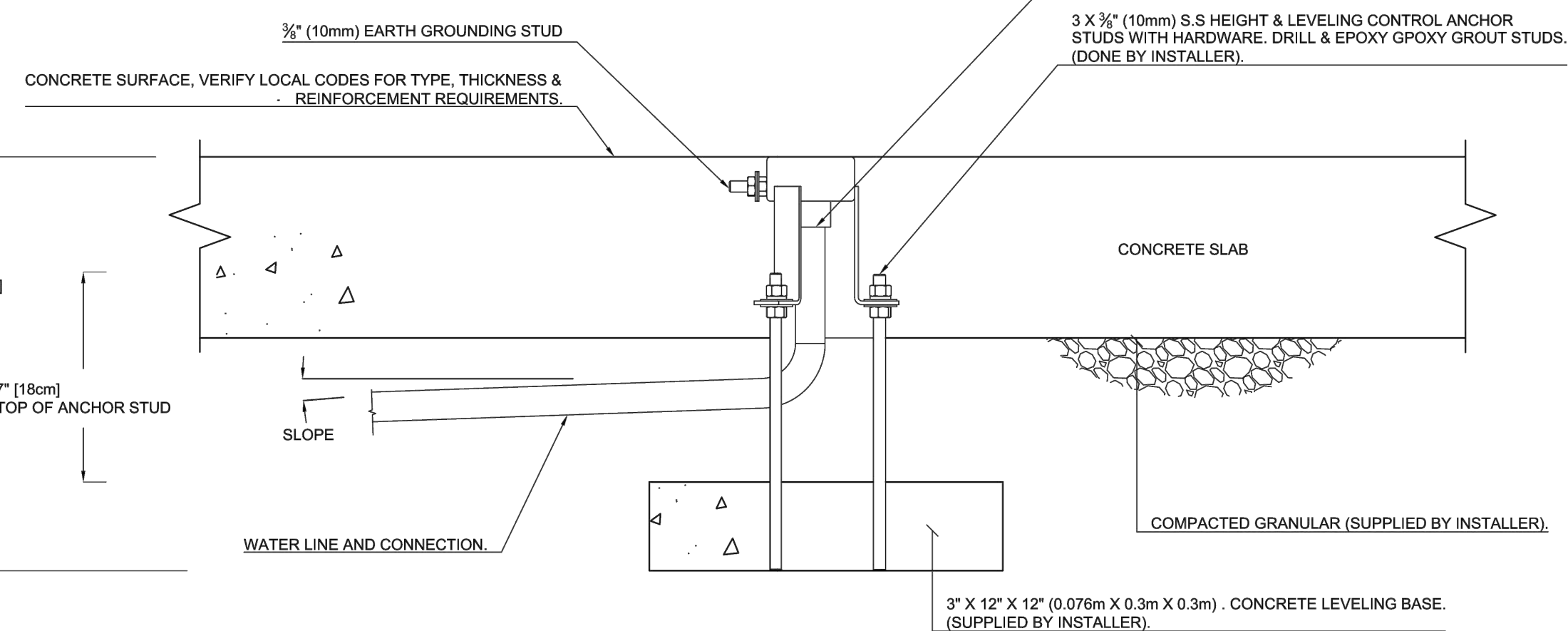
PLAN VIEW



FRONT ELEVATION VIEW



NOTE:
BY INSTALLER/CONTRACTOR MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.



PRODUCT NAME: GEYSER	PRODUCT INFORMATION		
PRODUCT NUMBER: VOR-0301.4XXX	DATE: 08/23/16	SHEET NO: 1/1	11"x17" SHEET SIZE



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ISSUED FOR - REVISION	NO.	DATE	DESCRIPTION
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	1	2022.06.07	DRAFT TENDER FOR COORDINATION

IS	RE	DATE	DESCRIPTION

PROJECT NO:	219-00153-00	DATE:	JUNE 2022
ORIGINAL SCALE:	1:200		
DESIGNED BY:	LS		
DRAWN BY:	LS		
CHECKED BY:	AG		

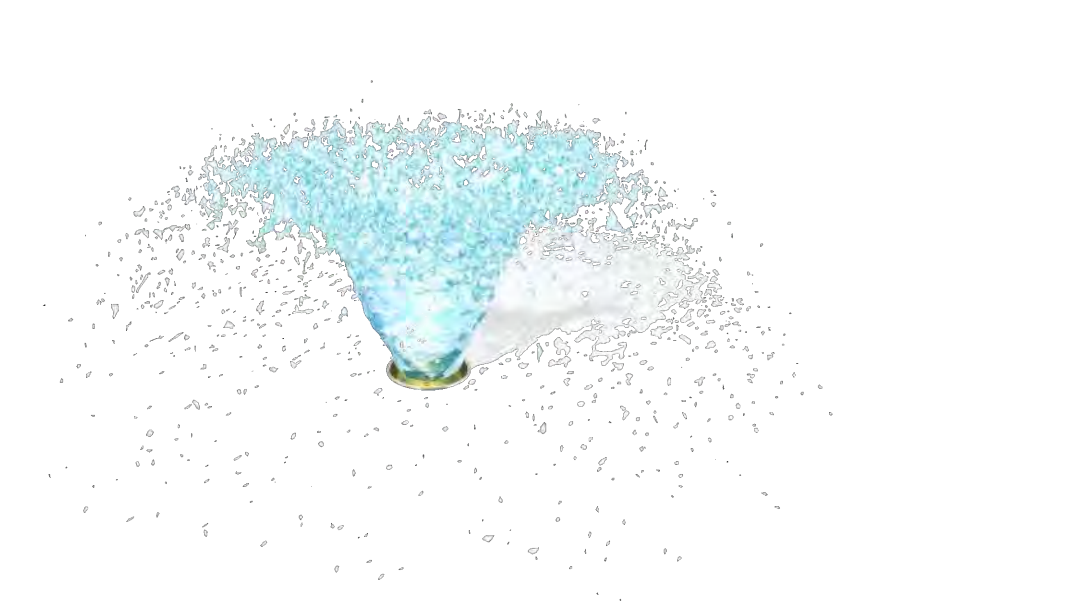
DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE:
LANDSCAPE DETAILS
SHEET 7

SHEET NUMBER: L606

SHEET #	OF	REV #	
--	--	--	2
DATE OF:	--		

10 9 8 7 6 5 4 3 2 1



VOR 7010 WATER JELLY N°1

Ideal age group: for all ages.



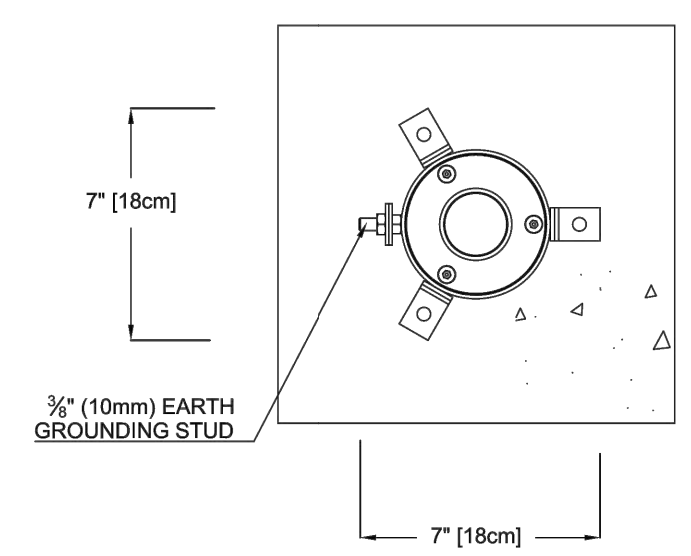
PRODUCT HIGHLIGHTS

- Promotes distinct opportunities for fun
- Children will enjoy passing their hands and feet through the water

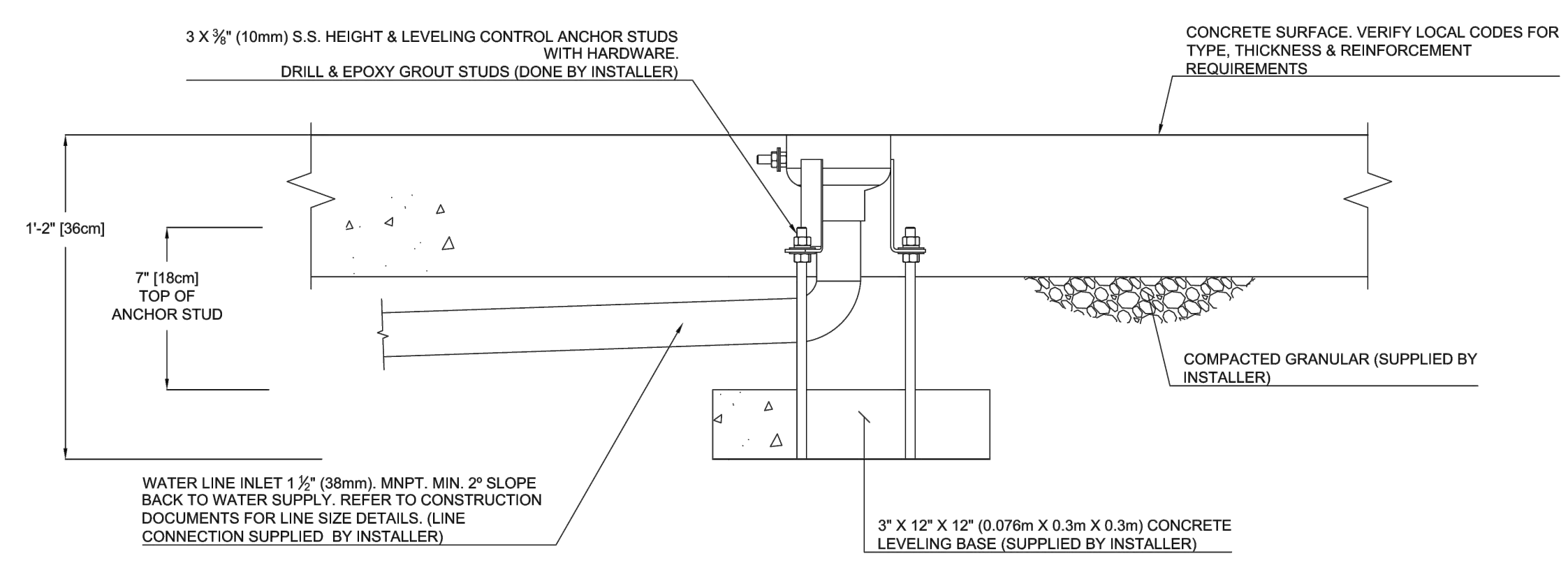


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PLAN VIEW



FRONT ELEVATION VIEW



PRODUCT NAME:	WATER JELLY N°1	PRODUCT INFORMATION		
PRODUCT NUMBER:	VOR-7010.0002	DATE: 03/20/18	SHEET NO: 1/1	11"x17" SHEET SIZE



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NOTES:

1. FOUNTAIN TYPE SPRAY FEATURE SHALL BE WATER JELLY No.1 (VOR 7010) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
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1
L606
WATER JELLY
SCALE NTS



VOR 7200 FROG N°1

Ideal age group: 0 - 6 years



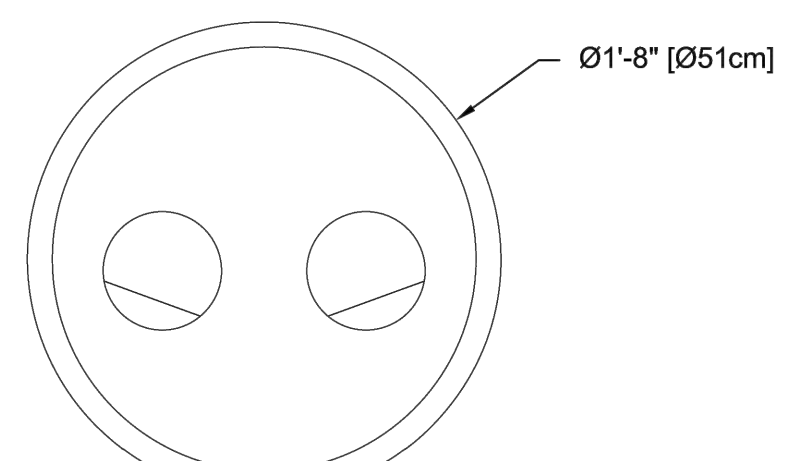
PRODUCT HIGHLIGHTS

- Gentle laminated water effect
- Rotates for added play value
- Encourages imaginative play

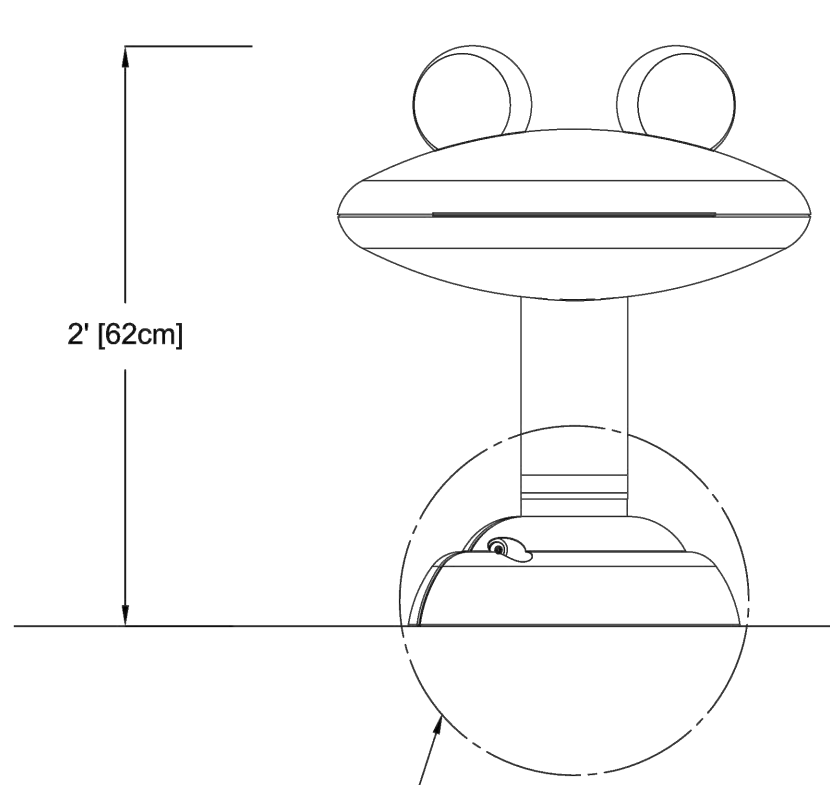


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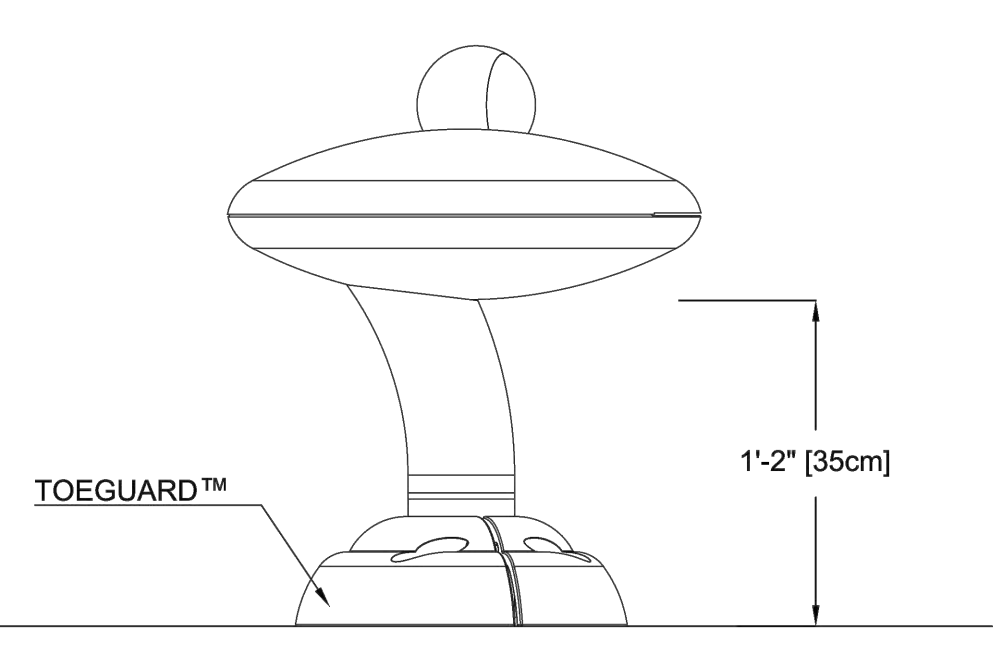
PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



PRODUCT NAME:	FROG No1	PRODUCT INFORMATION		
PRODUCT NUMBER:	VOR-7200 2XXX	DATE: 01/23/15	SHEET NO: 1/1	11"x17" SHEET SIZE



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NOTES:

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2
L606
FROG
SCALE NTS

10 9 8 7 6 5 4 3 2 1

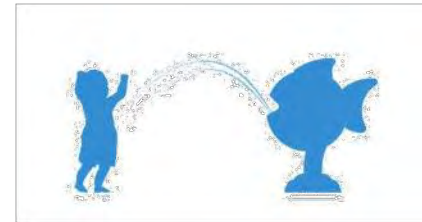


Ideal age group: 0 - 6 years

VOR 7218 FISH N°1

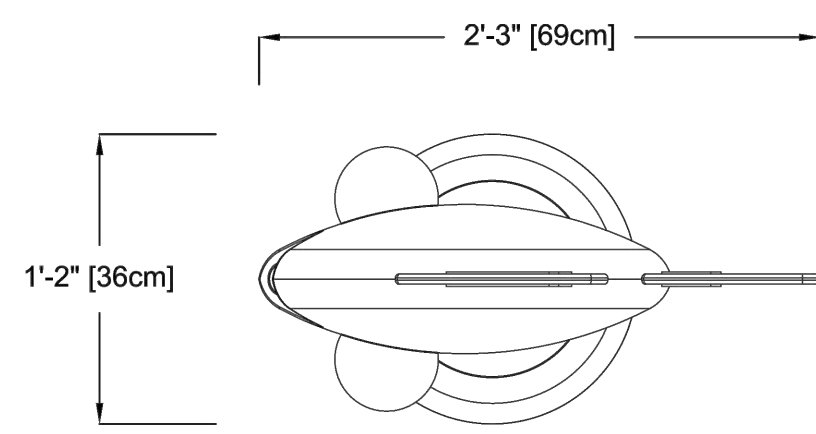
PRODUCT HIGHLIGHTS

- Gentle water effect
- Rotates for added play value
- Seeflow™ tail makes it easy to turn

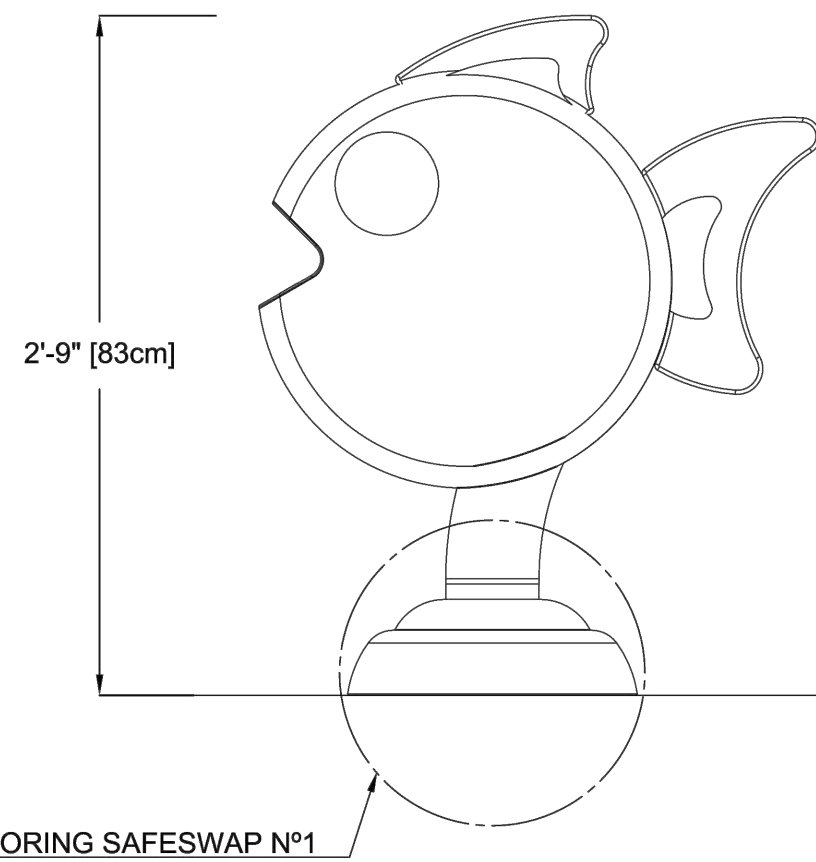


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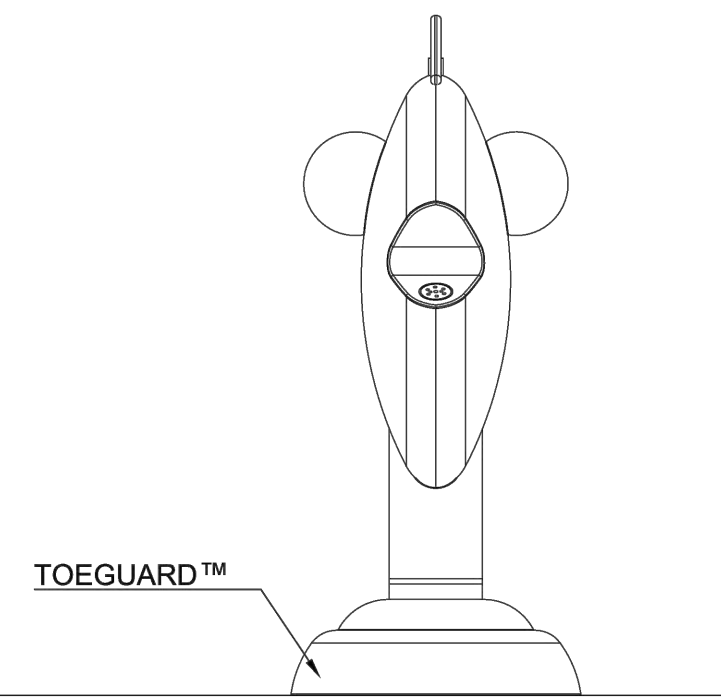
PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



TYPICAL ANCHORING SAFESWAP N°1

VOR-7218.2XXX FISH No1 (Construction Detail)

PRODUCT NAME: FISH No1	PRODUCT INFORMATION		
PRODUCT NUMBER: VOR-7218.2XXX	DATE: 01/26/15	SHEET NO: 1/1	11"x17" SHEET SIZE



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NOTES:

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1
L607
SCALE NTS



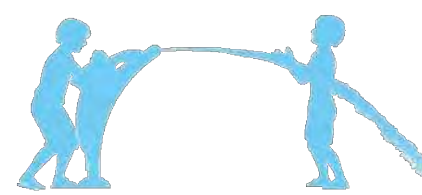
*The product shown in the image may differ from the actual product sold.

Ideal age group: 5 years and up

VOR 7255 DOLPHIN

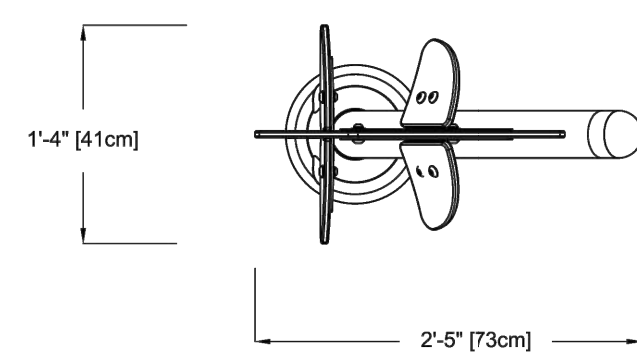
PRODUCT HIGHLIGHTS

- Gentle laminar water effects and intuitive 360° rotation
- Kids can interact by turning the dolphin and running under the water arc
- The Seeflow™ dolphin casts colorful shades on the ground

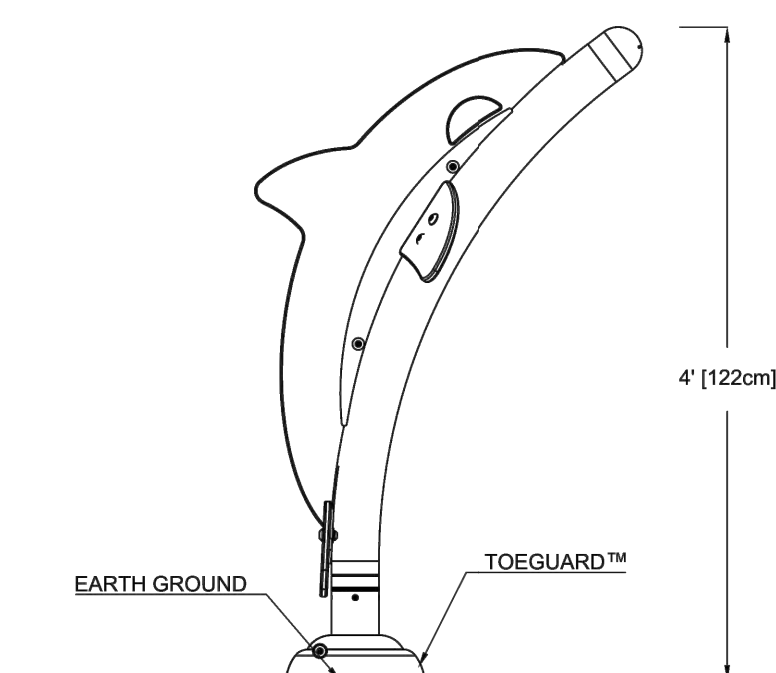


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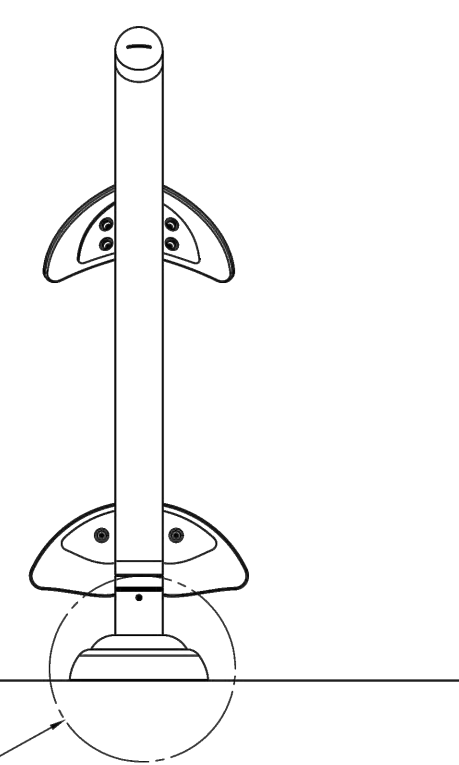
PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



TYPICAL ANCHORING SAFESWAP No.2

PRODUCT NAME: DOLPHIN	PRODUCT INFORMATION		
PRODUCT NUMBER: 7255	DATE: 08/26/21	SHEET NO: 1/1	11"x17" SHEET SIZE



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NOTES:

1. DOLPHIN TYPE SPRAY FEATURE SHALL BE DOLPHIN (VOR 7255) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
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2
L607
SCALE NTS



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PROJECT:

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POOL HOUSE

KEY PLAN:

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PROJECT NO: 219-00153-00	DATE: JUNE 2022
ORIGINAL SCALE: 1:200	
DESIGNED BY: LS	
DRAWN BY: LS	
CHECKED BY: AG	

DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE:
LANDSCAPE DETAILS
SHEET 8

SHEET NUMBER: L607

SHEET #	OF	REV #
--	--	2
DATE OF: --		



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PROJECT:

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POOL HOUSE

KEY PLAN:

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PROJECT NO: 219-00153-00 DATE: JUNE 2022

ORIGINAL SCALE: 1:200

DESIGNED BY: LS

DRAWN BY: LS

CHECKED BY: AG

DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE: LANDSCAPE DETAILS SHEET 9

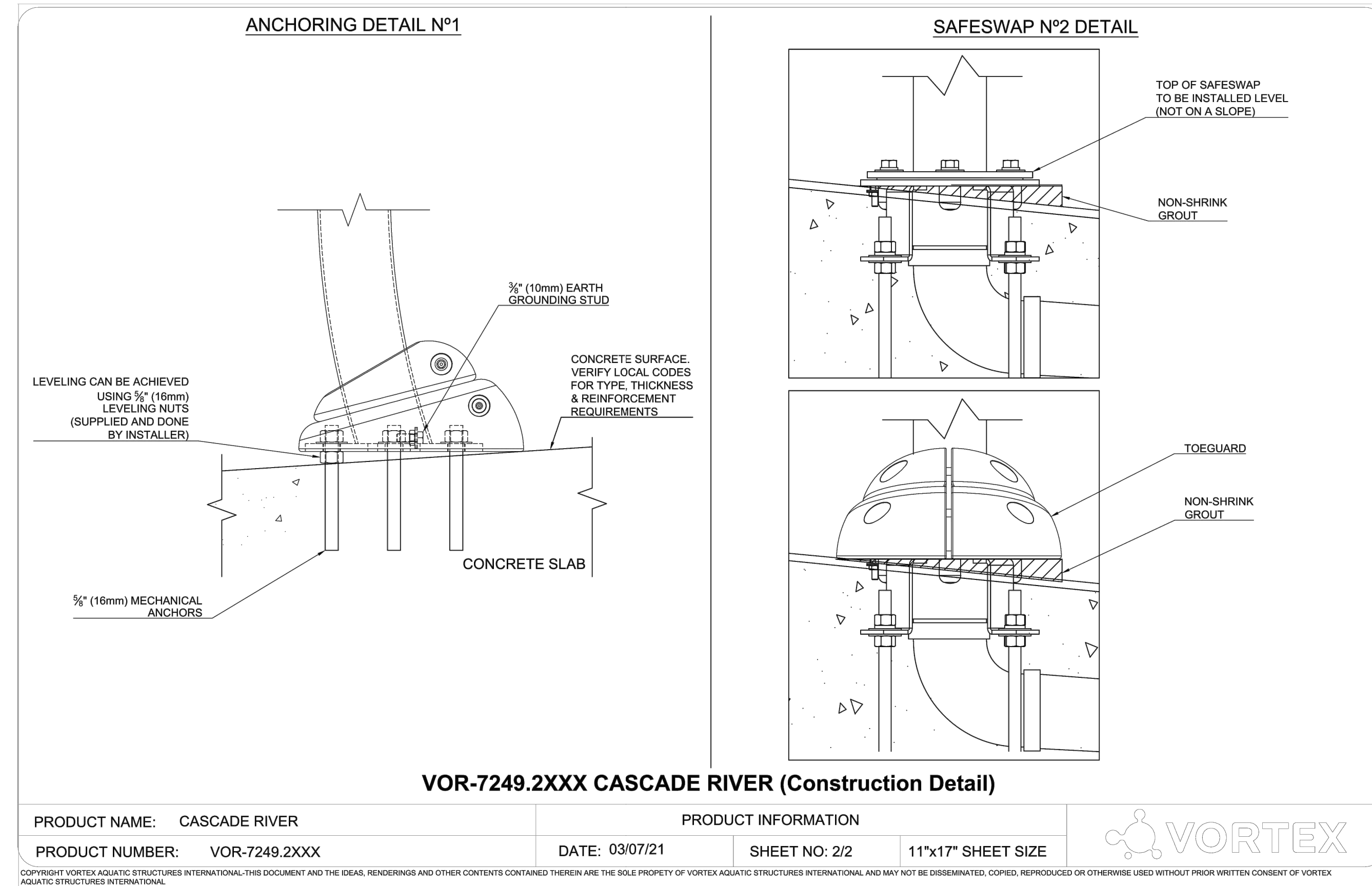
SHEET NUMBER: L608

SHEET # OF

ISSUE: -- REV #

DATE OF: --

2



VOR-7249.2XXX CASCADE RIVER (Construction Detail)

PRODUCT NAME: CASCADE RIVER	PRODUCT INFORMATION
PRODUCT NUMBER: VOR-7249.2XXX	DATE: 03/07/21 SHEET NO: 2/2 11"x17" SHEET SIZE

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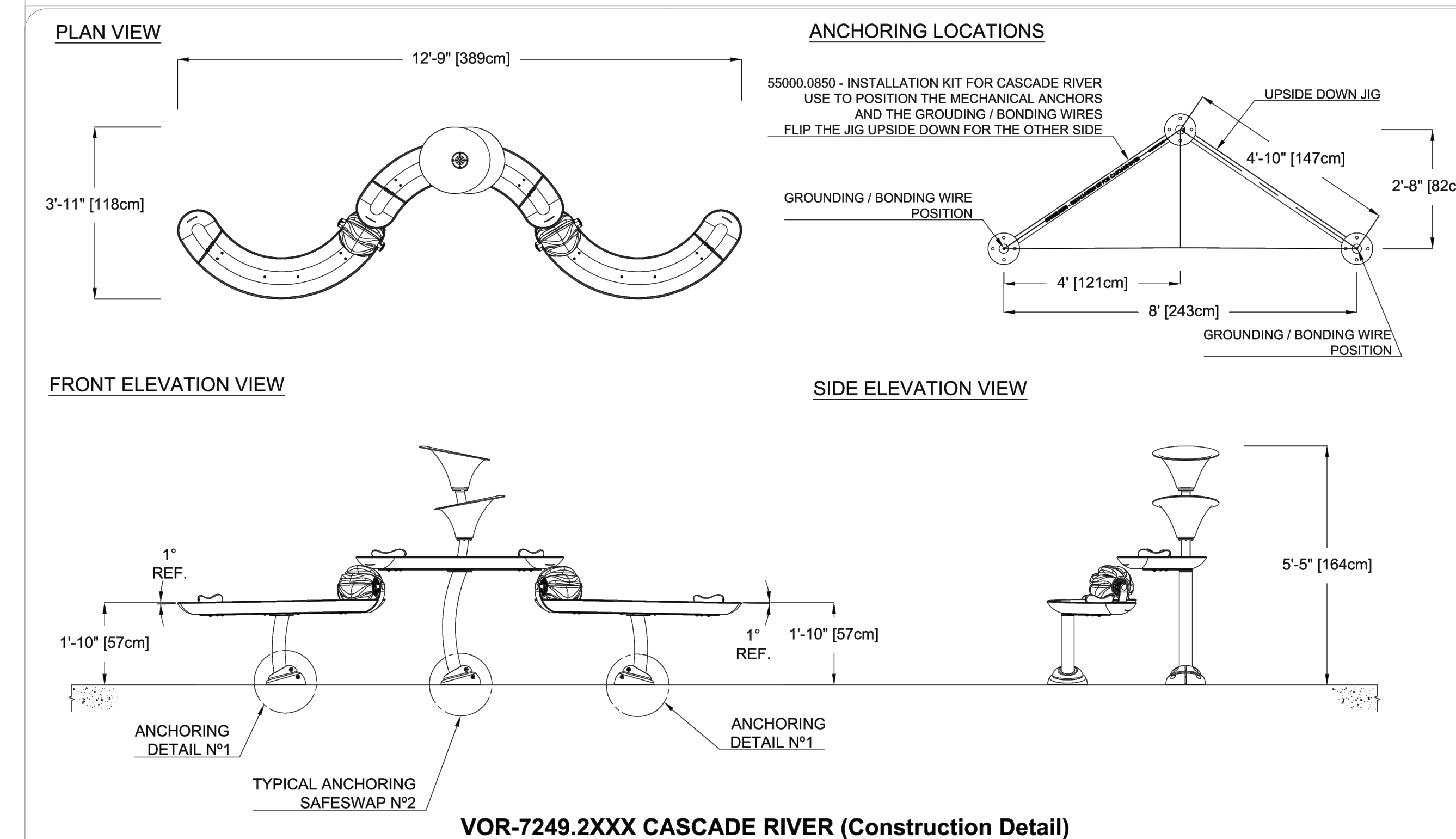
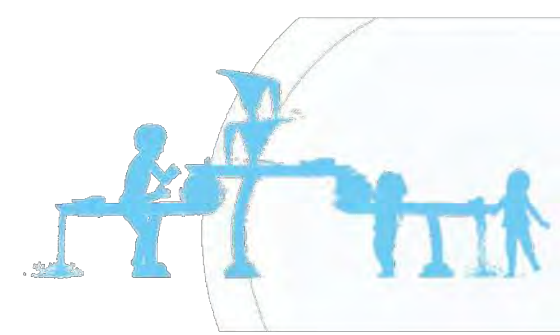
Ideal age group: 2 to 5 years

VOR 7249 CASCADE RIVER

PRODUCT HIGHLIGHTS

- Hands-on water exploration through flow play and interactive Waves and Orbs
- Encourages collaborative play by allowing many children to play at the same time
- Accessible configuration and various types of game opportunities

* Recommended installation in supervised areas



PRODUCT NAME: CASCADE RIVER	PRODUCT INFORMATION
PRODUCT NUMBER: VOR-7249.2XXX	DATE: 04/30/21 SHEET NO: 1/2 11"x17" SHEET SIZE

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NOTES:

1. WATER TABLE TYPE PLAY FEATURE SHALL BE CASCADE RIVER (VOR 7249) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
2. REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

1
L608
CASCADE RIVER
SCALE NTS




Ideal age group: For all ages

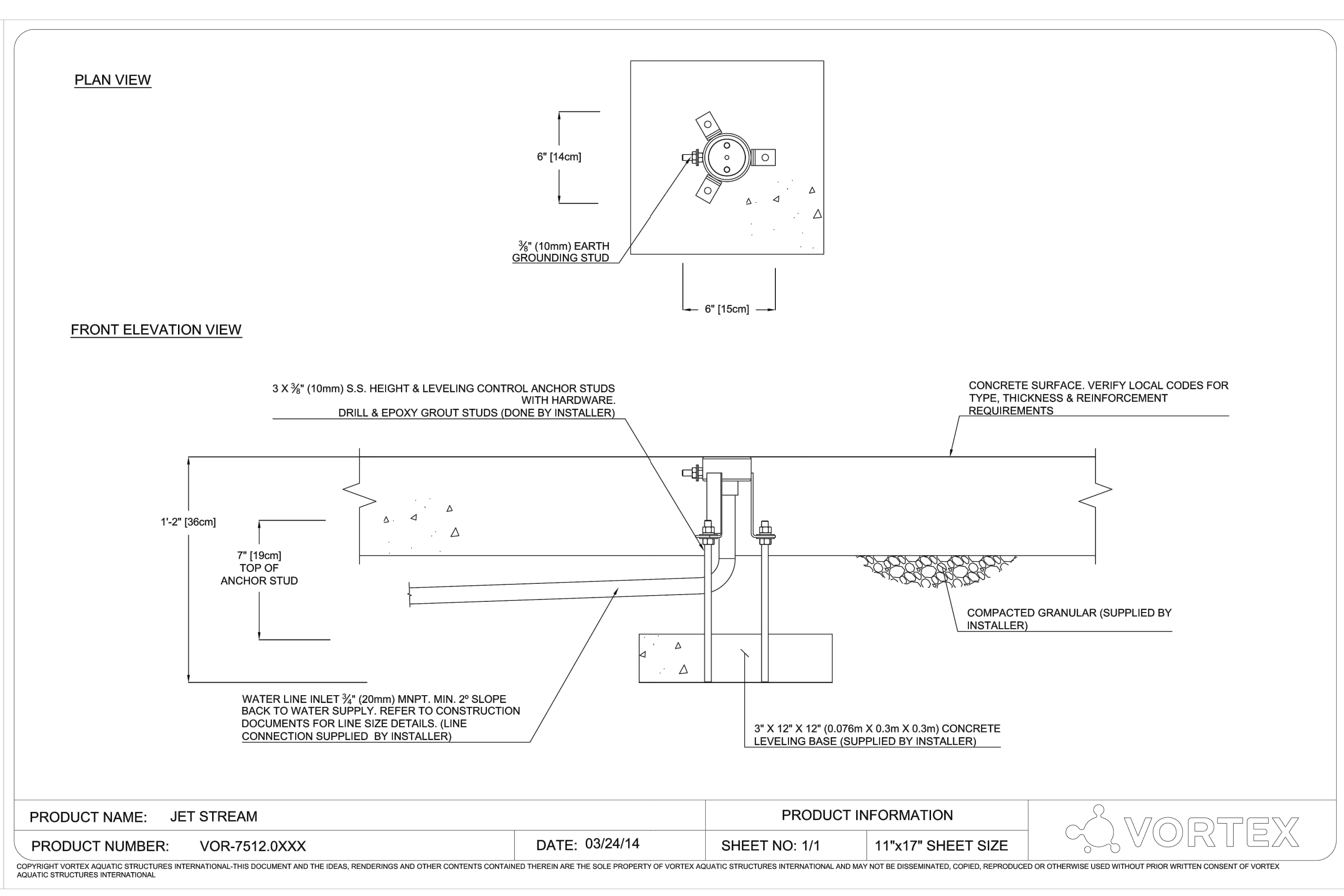
VOR 7512 JET STREAM N°1

PRODUCT HIGHLIGHTS

- Enjoy running your feet and hands in this feature
- Provide high interactivity with low water consumption



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NOTES:

1. JET TYPE SPRAY FEATURE SHALL BE JET STREAM No.1 (VOR 7512) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
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1 JET STREAM
SCALE NTS



Ideal age group: 6 years and up

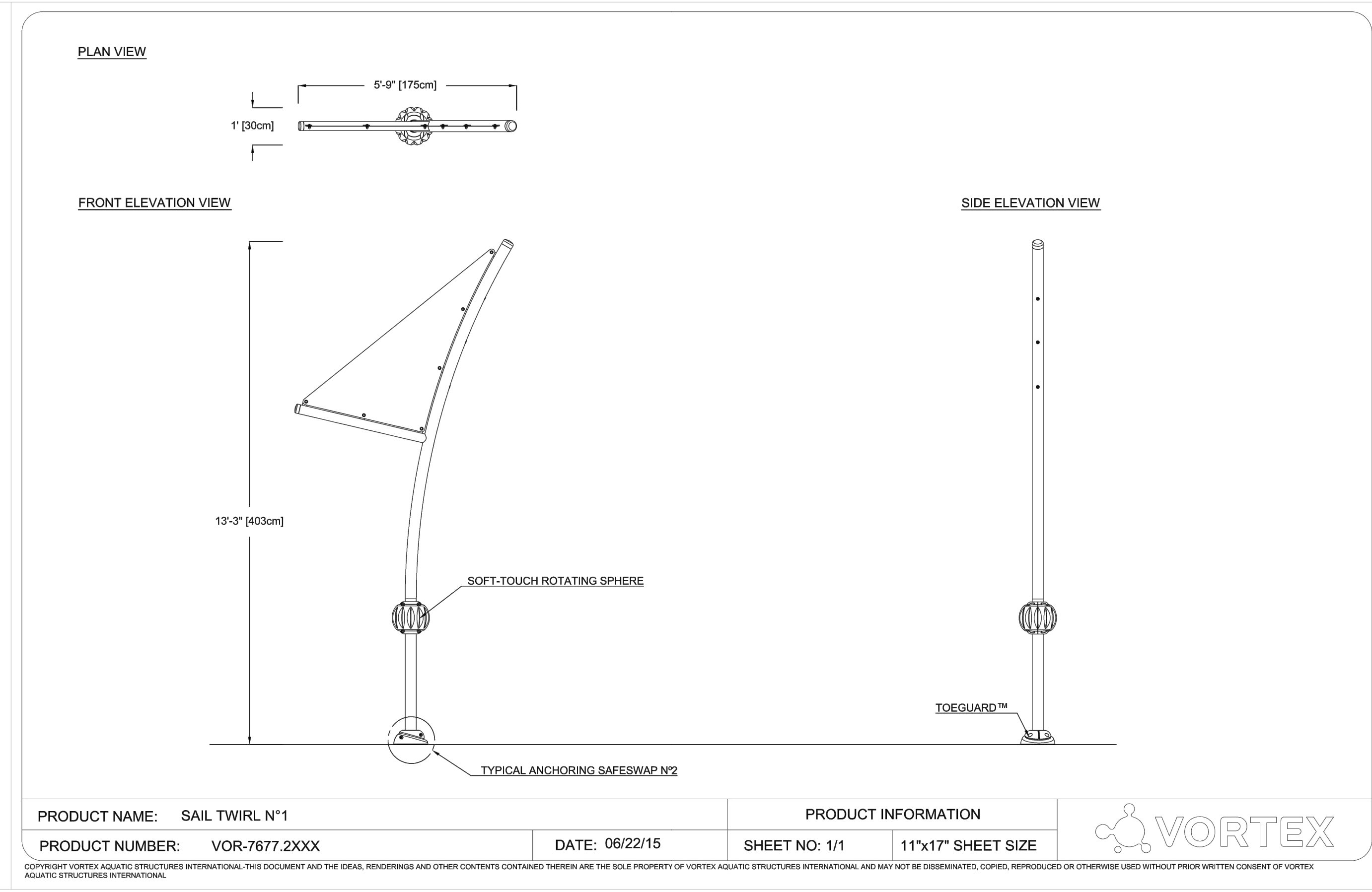
VOR 7677 SAIL TWIRL N°1

PRODUCT HIGHLIGHTS

- Creates spiraling water effect with its easy to handle, friction-free twirling sphere
- Provides a creative theme for a meaningful play experience
- The canvas is leveraged by the wind promoting an understanding of the navigation in sailing



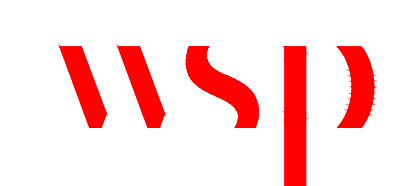
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NOTES:

1. SAIL TYPE SPRAY FEATURE SHALL BE SAIL TWIRL No.1 (VOR 7677) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
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2 SAIL TWIRL
SCALE NTS



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PROJECT:

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POOL HOUSE

KEY PLAN:

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	1	2022.06.07	DRAFT TENDER FOR COORDINATION

PROJECT NO:
219-00153-00

DATE:
JUNE 2022

ORIGINAL SCALE:
1:200

DESIGNED BY:
LS

DRAWN BY:
LS

CHECKED BY:
AG

DISCIPLINE:
LANDSCAPE ARCHITECTURE

TITLE:
LANDSCAPE DETAILS
SHEET 10

SHEET NUMBER: L609

SHEET # OF
--

ISSUE: --

REV #
2

DATE OF: --



*The product shown in the image may differ from the actual product sold. Ideal age group: for all ages

VOR 7698 ASTRA No.2

PRODUCT HIGHLIGHTS

- Three spilling buckets create an exciting opportunity to play amongst friends.
- Builds anticipation as kids see the buckets fill up before they spill!
- Encourages social interactions by allowing many kids to play at once.



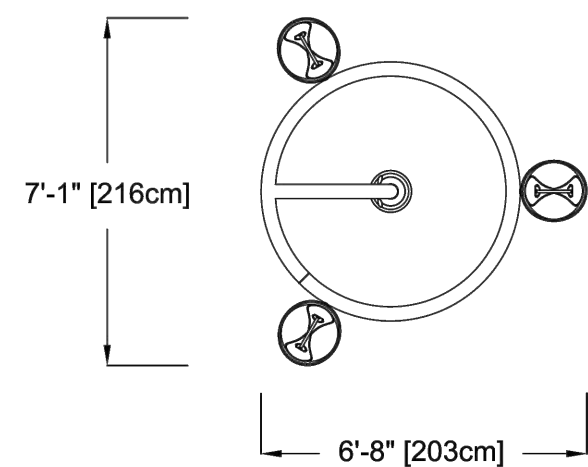
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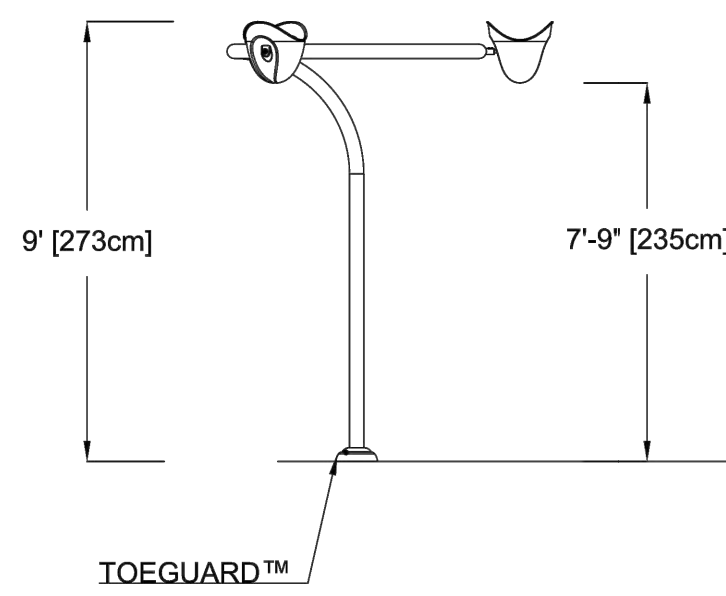
1. MULTI-BUCKET TYPE SPRAY FEATURE SHALL BE ASTRA No.2 (VOR 7698) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
2. REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

1
L610
ASTRA
SCALE NTS

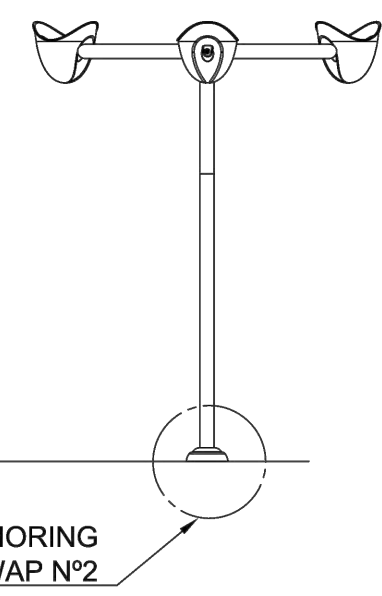
PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



PRODUCT NAME: ASTRA No.2	PRODUCT INFORMATION		
PRODUCT NUMBER: 7698.2XXX	DATE: 04/09/20	SHEET NO: 1/1	11"x17" SHEET SIZE



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OTTAWA, ONTARIO
CANADA K2B 8K2
PHONE: 613-829-2900
WWW.WSP.COM

CONSULTANT:

SEAL:

CLIENT:

MUNICIPALITY OF
NORTH GRENVILLE

CLIENT REF. # --

PROJECT:

RIVERSIDE PARK
POOL HOUSE

KEY PLAN:

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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
2	2022.06.21	ISSUED FOR TENDER
1	2022.06.07	DRAFT TENDER FOR COORDINATION

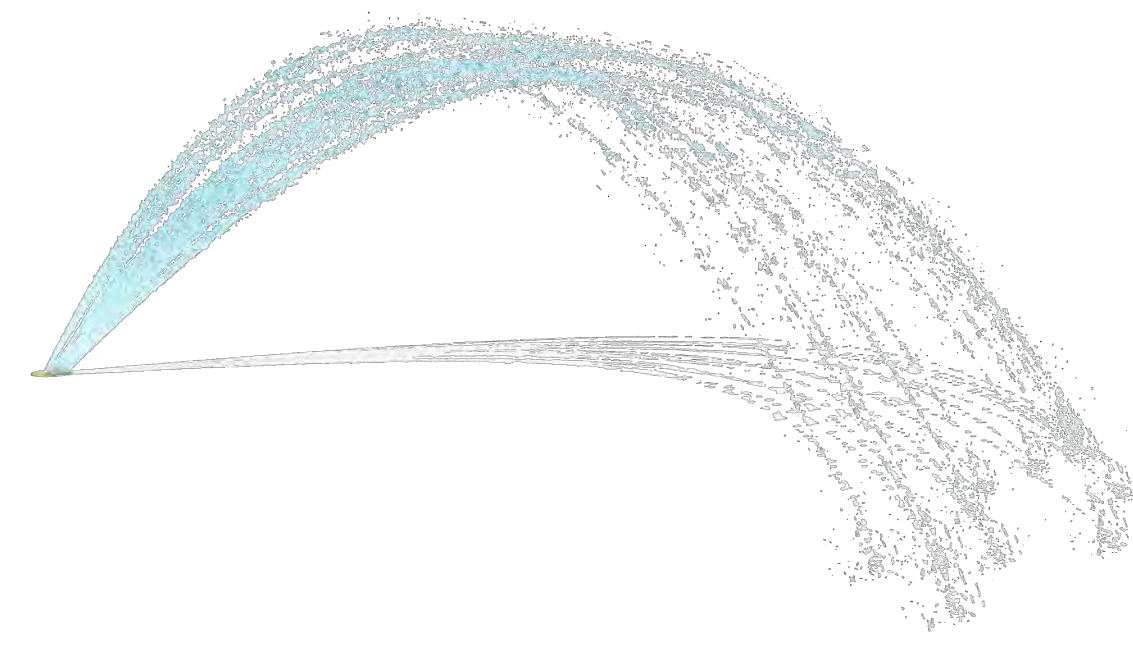
PROJECT NO: 219-00153-00	DATE: JUNE 2022
ORIGINAL SCALE: 1:200	
DESIGNED BY: LS	
DRAWN BY: LS	
CHECKED BY: AG	

DISCIPLINE: LANDSCAPE ARCHITECTURE

TITLE:
LANDSCAPE DETAILS
SHEET 11

SHEET NUMBER: L610

SHEET #	OF
ISSUE	REV #
--	2
DATE OF: --	

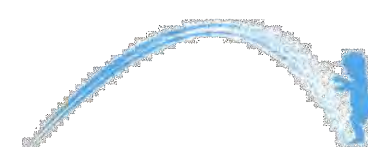


Ideal age group: for all ages

VOR 0303 ROOSTER TAIL

PRODUCT HIGHLIGHTS

- Jet streams shaped like a rooster tail encourage imaginative play
- Kids will enjoy running their hands and legs through the water



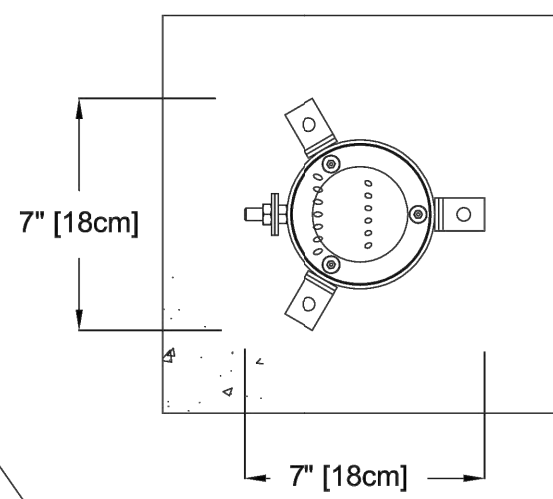
VORTEX
1.877.586.7839 (free USA/CANADA)
+1.514.694.3868 (INTERNATIONAL)
info@vortex-intl.com • VORTEX-INTL.COM

NOTES:

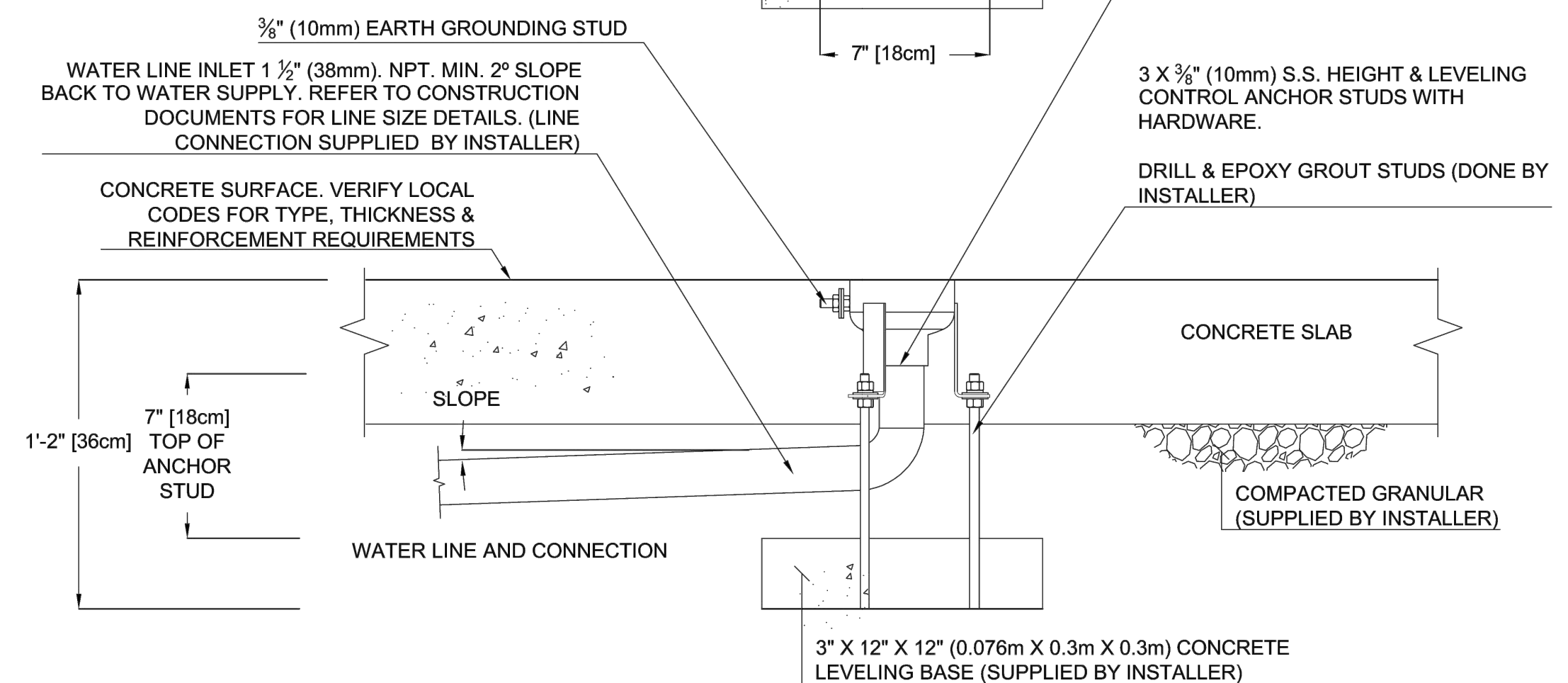
1. ROOSTER TAIL TYPE SPRAY FEATURE SHALL BE ROOSTER TAIL (VOR 0303) BY VORTEX AQUATIC STRUCTURES INTERNATIONAL INC. OR APPROVED EQUAL.
2. REFER TO PRODUCT SPECIFIC INSTALLATION INSTRUCTIONS, AS PER MANUFACTURER'S RECOMMENDATIONS.

2
L610
ROOSTER TAIL
SCALE NTS

PLAN VIEW



FRONT ELEVATION VIEW



VOR-0303.4XXX ROOSTER TAIL (Construction Detail)

PRODUCT NAME: ROOSTER TAIL	PRODUCT INFORMATION		
PRODUCT NUMBER: VOR-0303.4XXX	DATE: 04/17/12	SHEET NO: 1/1	11"x17" SHEET SIZE



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