

Rosedale School Gymnasium Addition & Interior Renovations

25 Erindale Avenue, Hamilton, Ontario

ISSUED FOR TENDER

ABBREVIATIONS

A	AIR CONDITIONING	F (CONT.)	FINISH FLOOR ELEVATION	P (CONT.)	PERIMETER
AC	ACQUISITIC PANEL	FFL	FINISH FLOOR LINE	PL	PROPERTY LINE/PLATE
AC/ PNL	ACQUISITIC PANEL	FIBER	FIBER	PLAM	PLASTER
ACC	ACCESS	FIN	FINISH	PLAST	PLASTER
ACCID	ACCESS DOOR (HINGED)	FIRE SEP	FIRE SEPARATION	PLYWD	PLYWOOD
ACI	AMERICAN CONCRETE INSTITUTE	FLR	FLOOR	PNL	PANEL
ACM	ACQUISITIC MEMBRANE	FLSH	FLASHING	PDS	POSITION
ACPL	ACQUISITIC PLASTER	FLOOR	FLOORING	PRECCONC	PRECAST CONCRETE
AD	AREA DRAIN	FLORES	FLORESCENT	PREFAB	PREFABRICATED (I)
ADJ	ADJACENT	FOM	FACE OF MASONRY	PREFORM	PREFORMED
ADJUST	ADJUSTABLE	FOS	FACE OF STEEL	PRETREAT	PRETREATED
ADJUST	ADJUSTABLE	FR	FRAME (I) (ING.)	PRINT	PRINTER
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	PROJ	PROJECT/PROJECTING
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	PPT	POUNDS PER SQUARE INCH
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	PT	POINT/POINTING
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	PTD	PARTITION
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	PTR	PRESSURE TREATED WOOD
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	PVC	POLYVINYL CHLORIDE OR COATING
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	PTWD	QUARRY TILE
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	Q	ROD AND SHELF
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	R	RETURN AIR
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RS	RADIATOR
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RAG	RADIATOR GRILLE
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RBS	RUBBER BASE
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RC	REFLECTED CEILING PLAN
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	REC	ROOF DRAIN
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RECIP	RECEIPT/RECEIVED
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	REF	REFERENCE
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	REFL	REFLECTIVE/REFLECTED
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	REFR	REFRIGERATOR
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	REG	REGISTER
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	REGD	REGISTERED
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	REQ	REQUIRED
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RET	RETURN
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RET	RETURN
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RFL	REFLECTIVE/REFLECTED
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RHS	RUBBER BASE
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RHS	RUBBER BASE
ADOP	AUTOMATIC DOOR OPERATOR	FR	FRAME (I) (ING.)	RHS	RUBBER BASE



CONTACT LIST

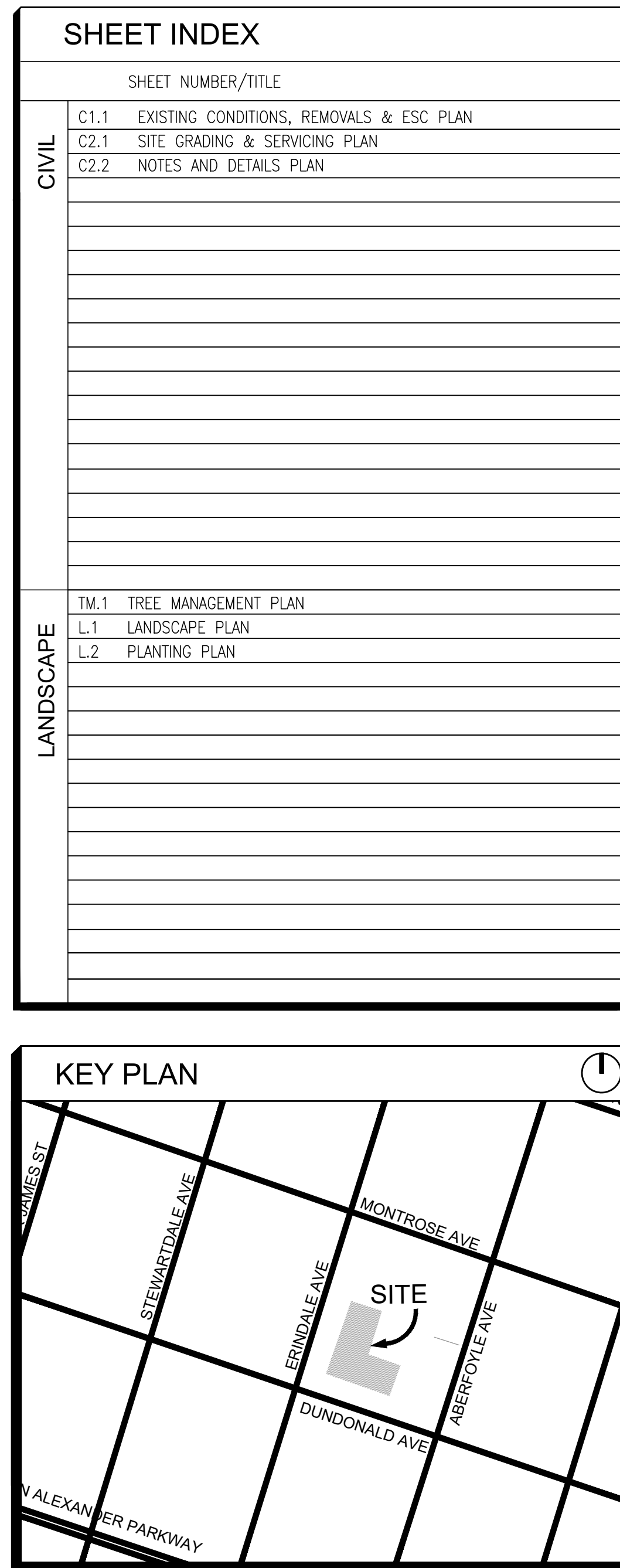
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 SHIFT landscape architecture	Landscape Architect	Shift Landscape Architecture 100 Crimea St. Unit C7 Guelph, Ontario, N1H 2Y5 T: 905-713-9326 E: mbarber@shiftland.com	Michael Barker, OAA, CSLA
 MTE	Civil Engineer	MTE Consultants INC. 1016 Sutton Drive Unit A Burlington, Ontario, L7L 6B8 T: 905-639-2552 E: jgoodwin@mte85.com	John Goodwin, C.E.T., OCEP

GRAPHIC SYMBOLS

 1 INDICATES DETAIL NUMBER	 1 INDICATES DRAWING SHEET ON WHICH DETAIL IS SHOWN (CROSS REFERENCING)	 1 INDICATES SHEET ON WHICH ELEVATION IS SHOWN (CROSS REFERENCING)	 A GRID REFERENCE
 A3000 INDICATES SKETCH SHEET ON WHICH DETAIL IS SHOWN	 254.400 EXISTING ELEVATION	 254.400 NEW ELEVATION	 1 INDICATES WALL SECTION NUMBER
 PROJECT NORTH	 3 REVISION TO DRAWING	 1 INDICATES BUILDING SECTION NUMBER	 1 INDICATES DRAWING SHEET ON WHICH SECTION IS SHOWN (CROSS REFERENCING)
 WO WINDOW TYPE	 KEYNOTE	 I INTERIOR PARTITION ASSEMBLY	 SCF INTERIOR GLAZED SCREEN TYPE
 RM# EXTERIOR WALL ASSEMBLY	 0001 DOOR NUMBERS		

SHEET INDEX

SHEET NUMBER/TITLE
ARCHITECTURAL
A0.1 COVER
A0.2 OBC, FIRE SAFETY AND ASSEMBLIES
A1.0 SITE PLAN & PHASING PLAN
A2.1 DEMOLITION FLOOR PLANS & REFLECTED CEILING PLAN
A2.2 FLOOR PLANS & REFLECTED CEILING PLANS
A2.3 EXTERIOR RAMP & DETAILS
A2.4 ROOF PLAN & DETAILS
A2.5 GYMNASIUM GAME LINES
A4.1 BUILDING ELEVATIONS
A5.1 INTERIOR ELEVATIONS
A5.2 INTERIOR ELEVATIONS & SECTIONS
A8.1 DETAILS
A8.2 DETAILS
A8.3 DETAILS
A10.1 MILLWORK DETAILS
LANDSCAPE
17-16-705-00 SITE SURVEY
17-16-705-01 SITE SURVEY
STRUCTURAL
S-00 GENERAL NOTES AND LOCATION PLAN
S-100 FOUNDATION PLAN
S-101 SLAB ON GRADE PLAN
S-102 ROOF FRAMING PLANS
S-200 SECTIONS
S-201 SECTIONS
S-300 DETAILS
S-400 TYP. DETAILS
MECHANICAL
M1-1 PLUMBING AND PORTABLE FIRE EXTINGUISHER LAYOUT
M2-1 HVAC LAYOUT
M3-1 MECHANICAL INSTALLATION NOTES AND EQUIPMENT SCHEDULES
ELECTRICAL
E1.1 GYM ELECTRICAL DEMOLITION PLAN
E2.1 ELECTRICAL RENOVATION PLANS
E2.2 ELECTRICAL DETAILS
E2.3 LEARNING COMMONS ELECTRICAL RENOVATION PLAN
E3.1 DETAILS & SCHEDULES
E4.1 ELECTRICAL SPECIFICATIONS



GENERAL NOTES

- ALL CONSTRUCTION TO MEET ALL CURRENT ONTARIO BUILDING CODE REQUIREMENTS.
- ENSURE THAT ALL CONSTRUCTION, MATERIALS, METHODS OF INSTALLATION AND TEMPORARY FACILITIES COMPLY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- INSPECT SITE CONDITIONS PRIOR TO COMMENCING ON NEW WORK AND REPORT ANY DISCREPANCIES.
- REPORT ALL CONTEMPLATED DEVIATIONS FROM THE DRAWINGS PRIOR TO MAKING CHANGES.
- SITE VERIFY ALL DIMENSIONS AND MAKE MODIFICATIONS TO SUIT EXISTING SITE CONDITIONS.
- MAKE GOOD ALL AREAS DISTURBED OR DAMAGED DURING CONSTRUCTION WHETHER SHOWN ON DRAWINGS OR NOT.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ANY AND ALL STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL AND LANDSCAPE DRAWINGS. COORDINATE STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL & LANDSCAPE WORK TO ENSURE THE PARTS OF THE WORK COME TOGETHER PROPERLY.
- PROMOTE CUTTING, PATCHING, AND REMEDIAL WORK IN ORDER TO ENSURE PARTS OF THE WORK COME TOGETHER PROPERLY.
- ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL BUILDING, PLUMBING, HYDRO, GAS, ETC., AUTHORITIES DURING CONSTRUCTION AND FOR OCCUPANCY.
- THE PLANS SHOWN HERE DO NOT REPRESENT THE FULL LIMIT OF THE SCOPE OF WORK. PROVIDE ALL WORK IN ORDER TO ENSURE PARTS OF THE WORK COME TOGETHER PROPERLY.

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Addition to HWDSB Rosedale Elementary School, 25 Erindale Ave., Hamilton, Ontario L8N 3L1

Dwg. Title: **Cover**

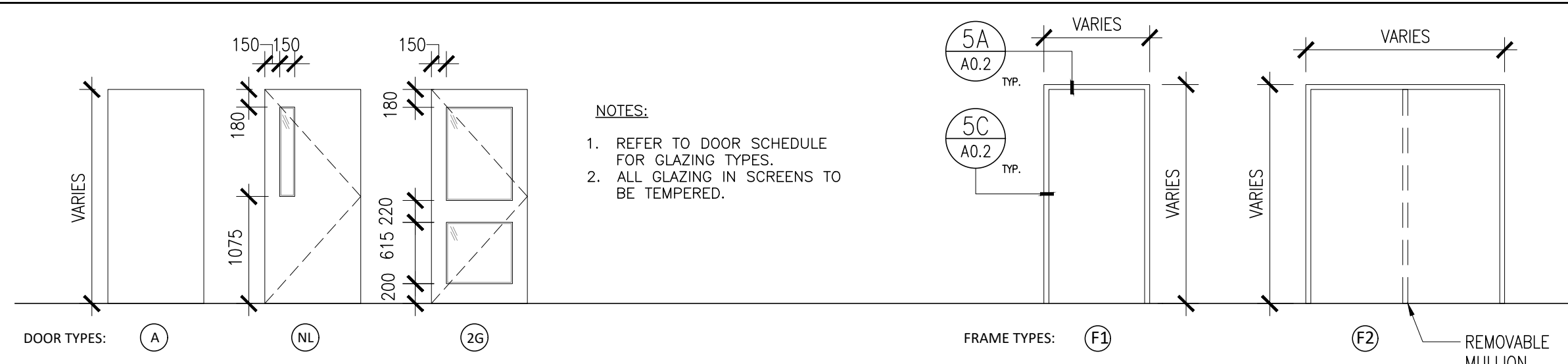
Drawn: Chkd: WJC

Proj. No.: 23011

Scale: As noted

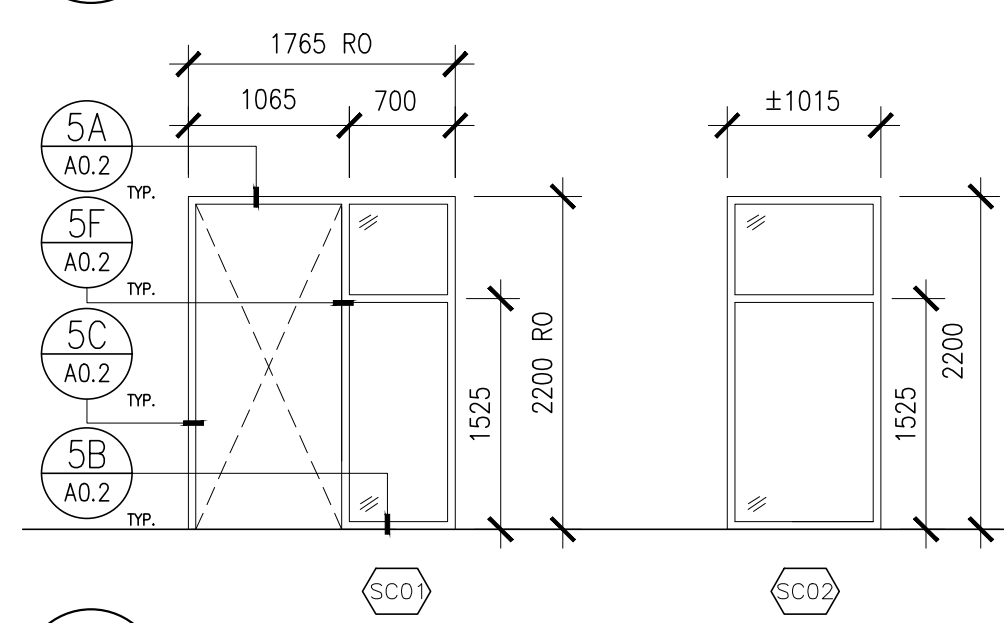
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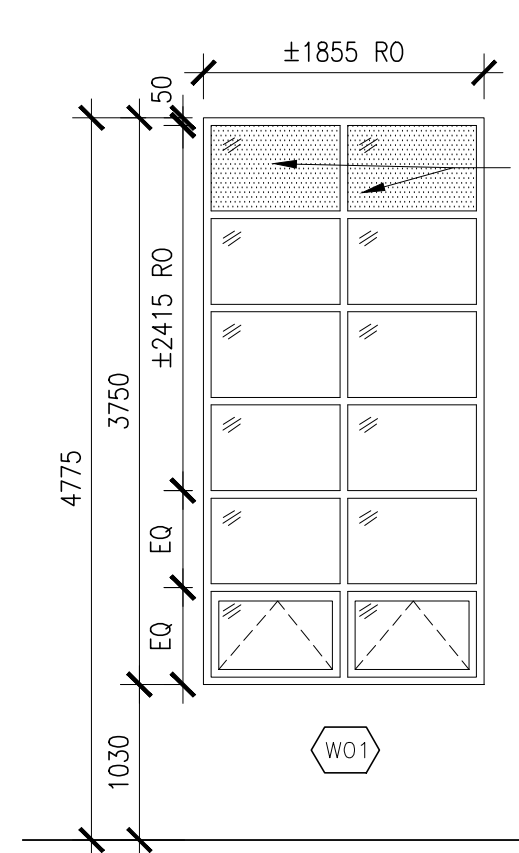


NOTES:
1. REFER TO DOOR SCHEDULE FOR GLAZING TYPES.
2. ALL GLAZING IN SCREENS TO BE TEMPERED.

8 DOOR AND FRAME TYPES
A0.2 1:50

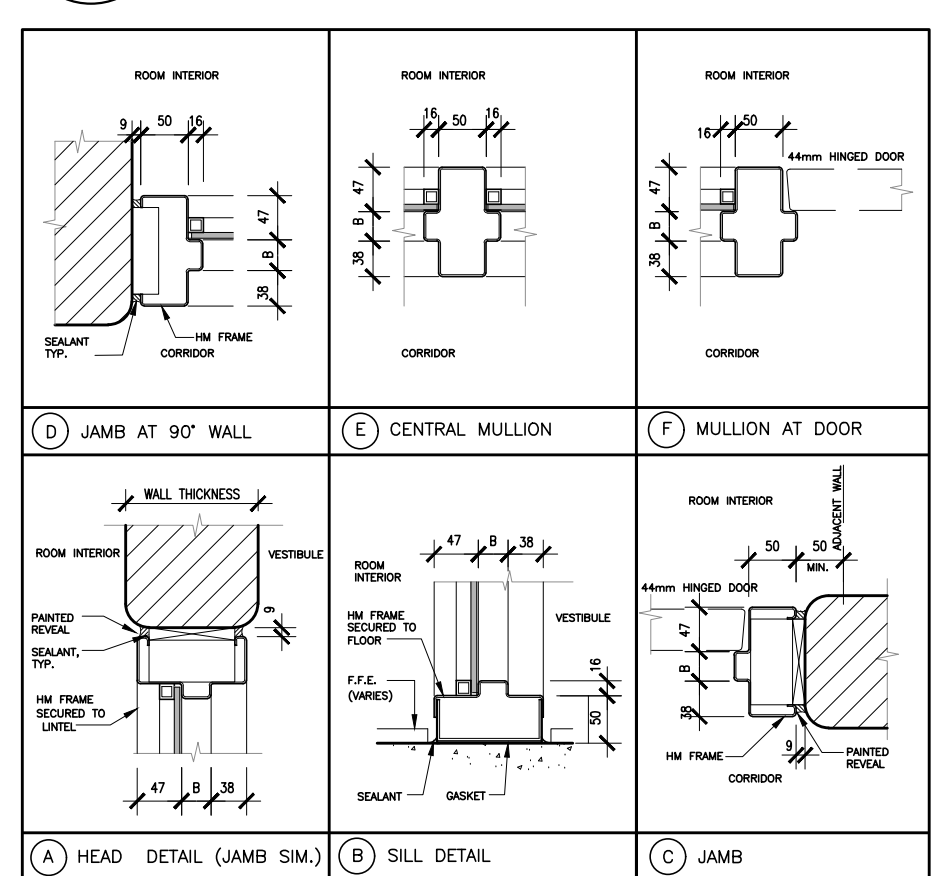


7 SCREEN TYPES
A0.2 1:50



NOTES:
1. WINDOW TO BE BULLNOSE THERMALLY BROKEN ALUMINUM WINDOW FRAMING
2. ALL EXTERIOR WINDOW GLAZING 25mm INSULATED GLASS, OUTSIDE PANE TO BE TEMPERED & LAMINATED, INSIDE PANE TO BE TEMPERED.
3. REFER TO DOOR SCHEDULE FOR SCREEN AND LITES.
4. RO = ROUGH OPENING DIMENSION
5. PROVIDE ROLLER BLINDS FOR ALL WINDOWS IN OFFICE 125B AND BREAKOUT ROOM 125C. PROVIDE MOTORIZED ROLLER BLINDS FOR ALL WINDOWS IN LEARNING COMMONS 125 AND RESOURCE ROOM 125A.

6 WINDOW AND SCREEN TYPES
A0.2 1:50

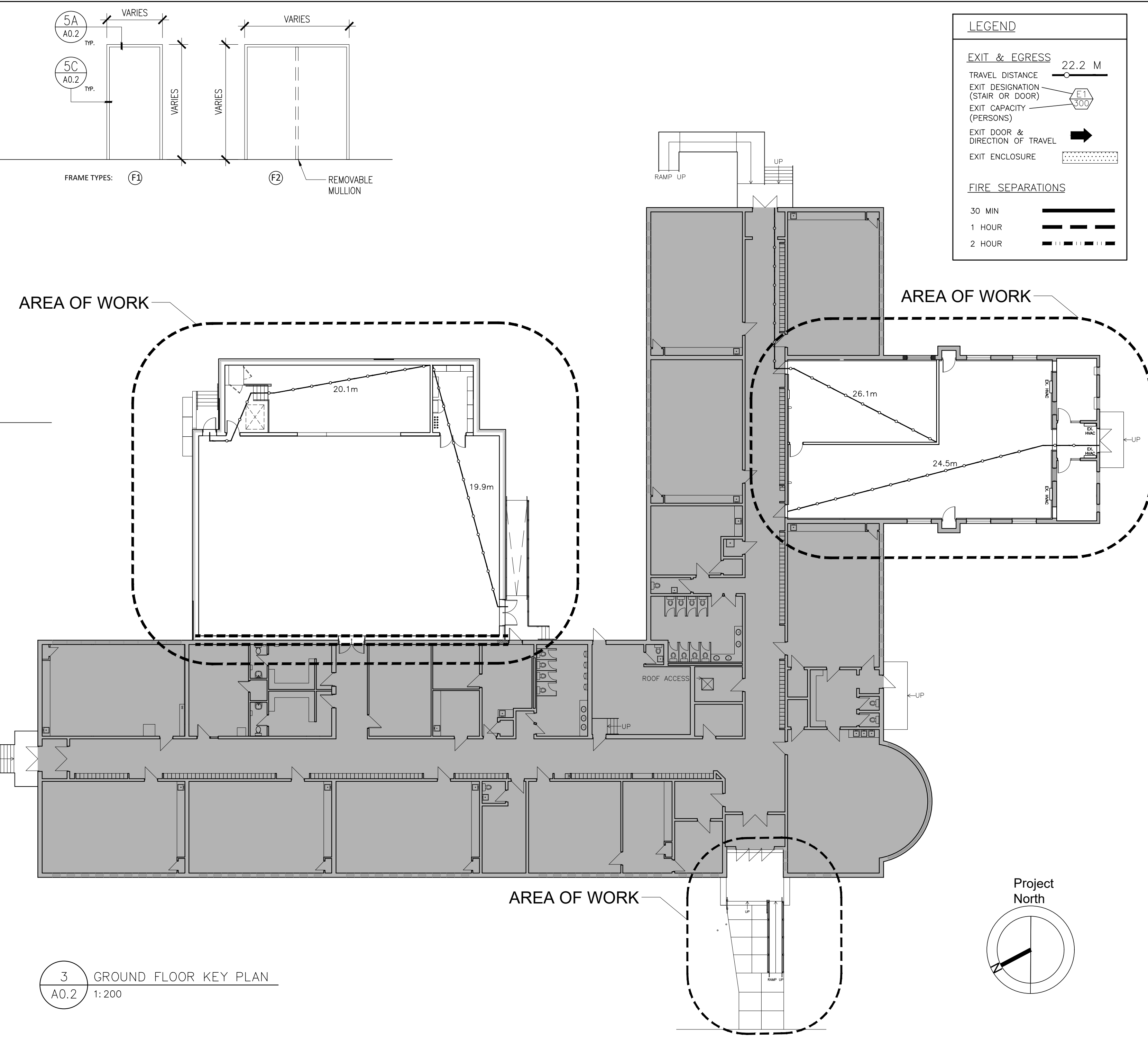


5 DETAILS
A0.2 NTS

ROOM NAME	DOOR NUMBER	DOOR SIZE	DOOR TYPE	DOOR MATL.	DOOR GLASS	DOOR FRAME TYPE	DOOR MATL.	DOOR FIRE RATINGS	REMARKS
CORRIDOR [101A]	D101A	2-965 x 2150	ZG	HM	G2	F2	HM	1.5 HRS	C/W REMOVABLE MULLION
GYMNASIUM [111]	D111	965 x 2150	A	HM	-	F1	HM	-	THERMALLY BROKEN DOOR + FRAME
GYMNASIUM PLATFORM [111A]	D111A	965 x 2150	A	HM	-	F1	HM	-	
GYMNASIUM STORAGE [111B]	D111B	2-965 x 2150	A	HM	-	F1	HM	-	NO MULLION
GYMNASIUM [111]	D111C	2-965 x 2150	NL	HM	G3	F2	HM	-	THERMALLY BROKEN DOOR + FRAME, C/W REMOVABLE MULLION
RESOURCE RM [125A]	D125A	965 x 2150	NL	HM	G1	F1	HM	-	
OFFICE [125B], BREAKOUT ROOM [125C]	D125B, D125C	965 x 2150	A	HM	-	SCD1	HM	-	
LEARNING COMMONS [125]	D125D, D125E	965 x 2150	A	HM	-	F1	HM	-	

HM: HOLLOW METAL
AL: ALUMINUM
INSUL MTL: INSULATED METAL
PT: PAINT
ANOD: ANODIZED
STL: STEEL
G1: 6MM TEMPERED GLASS
G2: 6MM FIRE RATED GLASS
G3: 25MM INSULATED GLASS
EX: EXISTING

4 DOOR SCHEDULE
A0.2 NTS



3 GROUND FLOOR KEY PLAN
A0.2 1:200

LEGEND

EXIT & EGRESS

TRAVEL DISTANCE: 22.2 M

EXIT DESIGNATION (STAR OR DOOR): E1, E2, E3

EXIT CAPACITY (PERSONS): 300

EXIT DOOR & DIRECTION OF TRAVEL: [Symbol]

EXIT ENCLOSURE: [Symbol]

FIRE SEPARATIONS

30 MIN: [Symbol]

1 HOUR: [Symbol]

2 HOUR: [Symbol]

Item	Ontario's 2012 Building Code	OBC Reference
1	Project Description: <input type="checkbox"/> New <input checked="" type="checkbox"/> Part 11 <input checked="" type="checkbox"/> Part 3 <input type="checkbox"/> Part 9	References are to Division B unless noted [A] for Division A or [C] for Division C
2	Minor Occupancy(s): A-2 Elementary School	3.1.2.1.(1)
3	Building Area (m ²): Existing 2004.66 sqm New 493.66 sqm Total 2498.66 sqm	1.4.1.2. [A]
4	Gross Area: Ground Floor (Existing) 2004.66 sqm Proposed Addition (Gymnasium) 493.66 sqm Total 2498.26sqm	1.4.1.2. [A]
5	Number of Storeys: Above grade 1 Below grade 0	1.4.1.2. [A] & 3.2.1.1
6	Number of Streets/Fire Fighter Access: 1	3.2.2.10 & 3.2.5
7	Building Classification: Existing Building - Group A, Division 2 Proposed Addition (Gymnasium) - 3.2.2.25 Group A, Division 2, up to 2 Storeys	3.2.2.20-83
8	Sprinkler System 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 roofing <input checked="" type="checkbox"/> not required	3.2.2.20-83
9	Standpipe required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.9
10	Fire Alarm required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.4
11	Water Service/Supply is Adequate: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.5.7
12	High Building: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.6
13	Construction Restrictions: <input type="checkbox"/> Combustible <input type="checkbox"/> Non-combustible <input checked="" type="checkbox"/> Both required	3.2.2.20-83
14	Mezzanine(s) Area m ² : N/A	3.2.1.1.(3)(8)
15	Occupant load based on [] design of building: Existing Occupant Load: Students 185 Staff 20 Total 205 New Building A (Gymnasium): Total 185 20 205 No new occupant load created by Gymnasium Addition Calculation of Maximum allowable occupancy for Gymnasium as per O.B.C Table 3.1.17.1: Gymnasium 352 m ² / Space with non-fixed seats @ 0.75m ² /person 469 platform 59 m ² / classroom @ 1.85m ² /person 32 Total 501	3.1.17
16	Plumbing Facilities: Occupant Load: 205 persons Required: Elementary School: 30 Males per fixture, 26 Females per fixture Require: 4 fixtures for Males and 4 fixtures for Females. Total of 8 fixtures. Provided: EXISTING: Staff: Single Kindergarten: 3 fixtures; Universal: 2 fixtures; Male Washrooms: 1 fixture; Female Washrooms: 9 fixtures; EXISTING Washroom Fixtures: 24 fixtures;	3.7.4.2.(1) 3.7.4.3.(14)
17	Barrier-Free Design: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain)	3.8
18	Hazardous Substances: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.3.1.2 & 3.3.1.19
19	Fire Resistance Rating (FRR): Horizontal Assemblies: Floors 1 HR Mezzanines N/A Roof N/A FRR of Supporting Members: Floors: 1 HR Roof: N/A Mezzanine: N/A	Listed Design No. or Description: Table 1
20	Spatial Separation - to existing: Wall Area of EBF (m ²): North 206.7 West 91.65 East-S 142.6 East-N 58.9 South 0	3.2.3.1.B
21	Travel Distance: max. 30 m actual: see plan	3.4.2.4

2 OBC MATRIX
A0.2 NTS

GRAPHIC DESCRIPTION	FOUNDATION	PARAPET	EXTERIOR WALLS	INTERIOR PARTITIONS	EX. ASSEMBLY	ROOF	FLOOR	
DESIGNATION	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	
TYPE	CONC. FOUNDATION WALL	PARAPET WALL	EXTERIOR WALL	INTERIOR PARTITION	FIRE WALL	INTERIOR PARTITION	FURRING WALL (1 SIDE)	
CONSTRUCTION	CAST-IN-PLACE CONCRETE FOUNDATION WALL PROVIDE 50mm VERTICAL STYROFOAM INSULATION (R10) AT PERIMETER TO MIN. 610mm BELOW EXTERIOR GRADE	90mm BRICK VENEER 25mm AIR SPACE 25mm SPRAYED INSULATION/AIR BARRIER SYSTEM LAP AWB FROM ROOF UP 190mm / 290mm CONCRETE BLOCK 13mm PLYWOOD 50mm RIGID INSULATION 13mm PLYWOOD ROOF MEMBRANE FLASHING SAME AS W1 WITH ACM PANEL SYSTEM & 75mm THERMALLY BROKEN GALVANIZED METAL SUB-GIRTS IN LIEU OF 90mm BRICK VENEER	290mm CONCRETE BLOCK 75mm SPRAYED INSULATION/AIR BARRIER SYSTEM 25mm AIR SPACE 90mm BRICK VENEER	240mm CONCRETE BLOCK TO U/S OF ROOF DECK 190mm CONCRETE BLOCK TO U/S OF ROOF DECK SAME AS W1 WITH ACM PANEL SYSTEM & 75mm THERMALLY BROKEN GALVANIZED METAL SUB-GIRTS IN LIEU OF 90mm BRICK VENEER	290 CONCRETE BLOCK 25 AIR SPACE EXISTING WALL	16mm ABUSE RESISTANT GYPSUM BOARD 150 ACOUSTIC BATT INSULATION BETWEEN STUDS 13mm GYPSUM FIBRE COVER BOARD 152mm METAL STUDS @ 405 O.C. 16mm ABUSE RESISTANT GYPSUM BOARD	2-PLY MOD BIT ROOFING SYSTEM (WHITE COOL ROOF CAP SHEET WHERE NOTED) BASE SHEET ROOFING MEMBRANE 13mm GYPSUM FIBRE COVER BOARD RIGID INSULATION (MIN 2% SLOPE) SELF-ADHERED ROOF VAPOUR RETARDER 13mm FIBRE BOARD UNDERLAY METAL DECKING STEEL STRUCTURE W/ OSWS SLOPED REFER. STRUCT. DWGS.	SEALER 125 MM CONCRETE SLAB ON GRADE VAPOUR BARRIER SCHEDULED SUB BASE REFER TO STRUCT. DWGS.

1 ASSEMBLY SCHEDULE
A0.2 NTS

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CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.

NOTE: DRAWINGS ARE NOT TO BE SCALED.

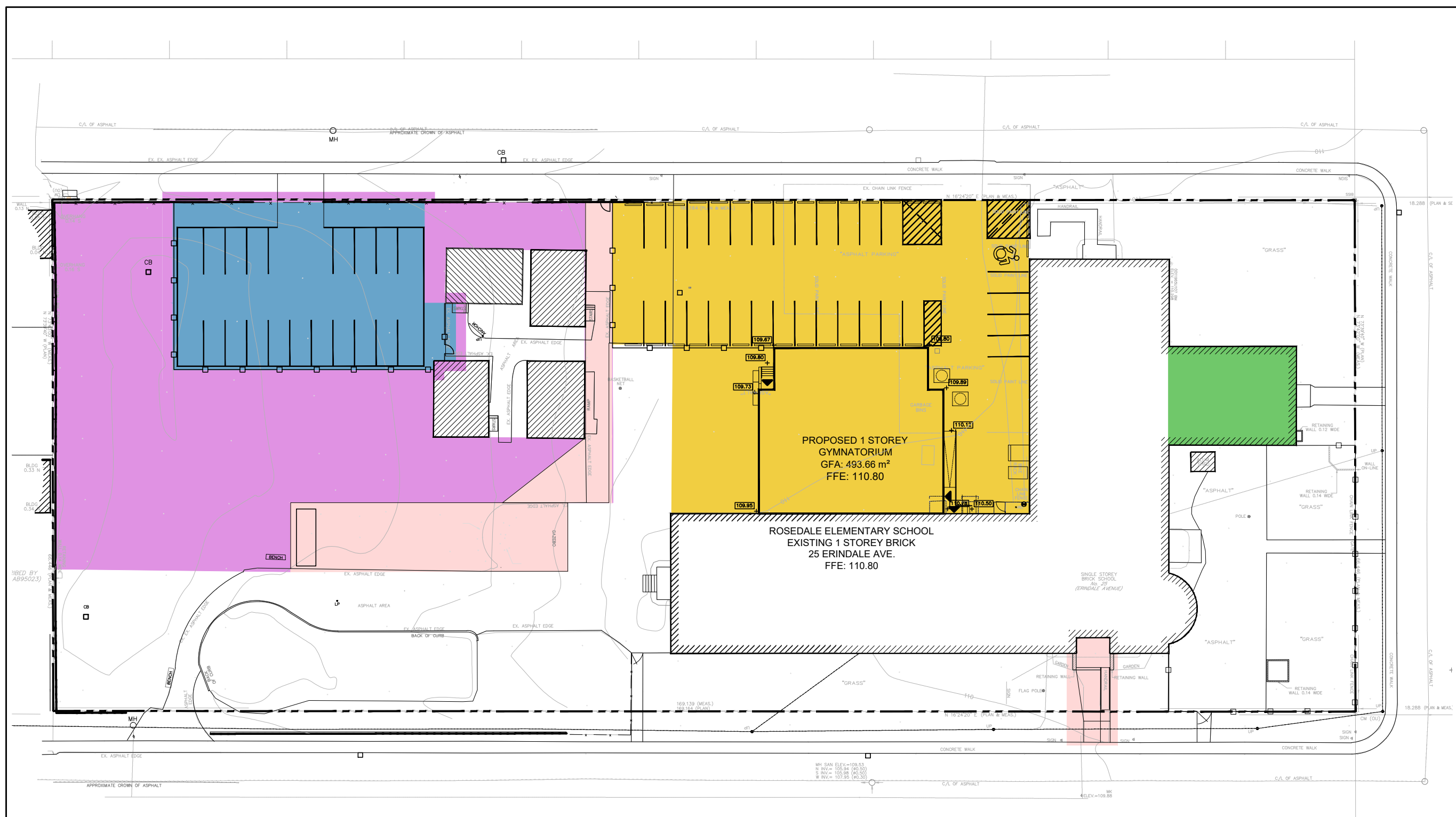
No.	Date	Remarks
7	2024-04-25	Issued for Tender
6	2024-02-09	Issued for Permit Review
5	2023-12-22	Issued for Review
4	2023-12-04	Issued for Coordination
3	2023-11-15	Reissued for SPA
2	2023-10-02	Issued for Review
1	2023-09-27	Sent to Civil Engineer

Addition to
HWDSB Rosedale Elementary School
25 Erindale Ave.
Hamilton, Ontario L8N 3L1

Dwg. Title:
OBC, Fire Safety & Assemblies

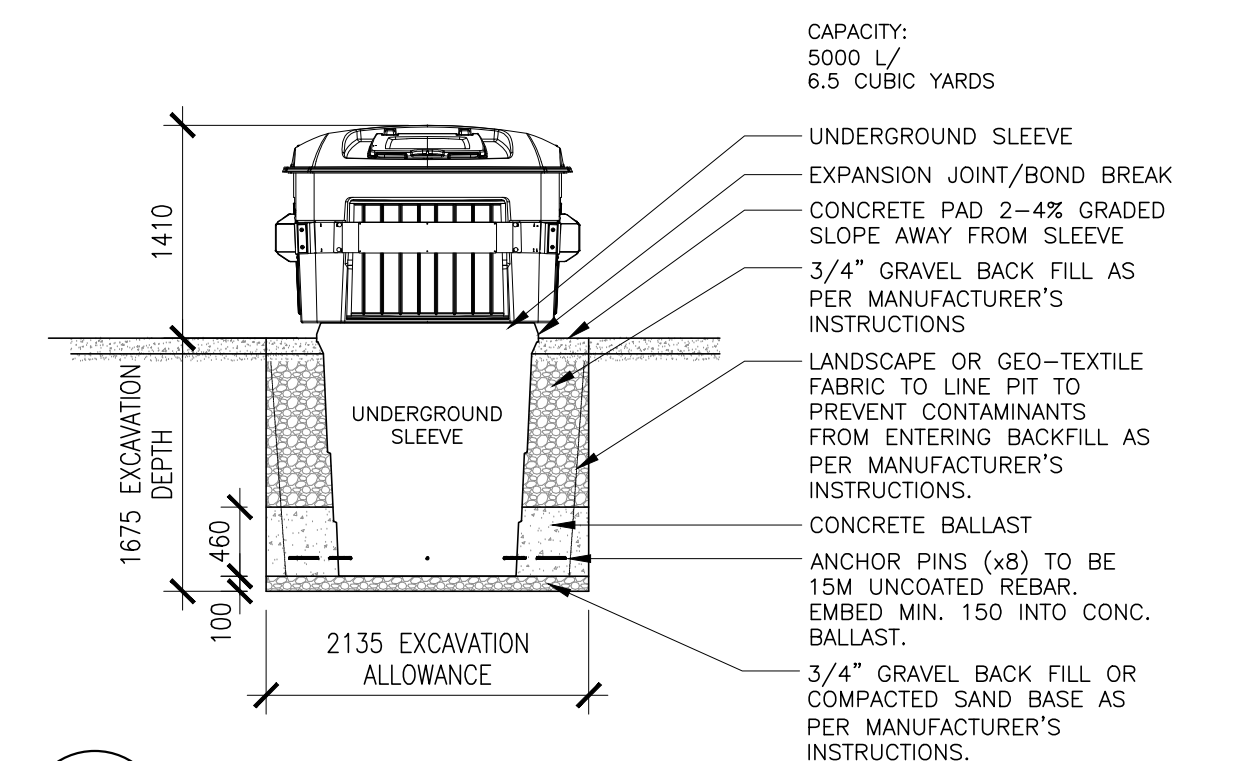
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Date: 01/31/24

Drawing No.:
A0.2



2 PHASING PLAN
A1.0 N.T.S.

- PHASE 01 - JULY 8TH, 2024 - AUGUST 26TH, 2024 = CONSTRUCT TEMPORARY PARKING LOT LOCATED WITHIN THE GRASS PLAYFIELD AREA.
 - PHASE 02 - JULY 8TH, 2024 - AUGUST 26TH, 2024 = INSTALL NEW ASPHALT PAVING WITHIN PLAYFIELD AREA AND OTHER RELATED LANDSCAPE ITEMS, AS WELL AS CONSTRUCT NEW MAIN ENTRANCE RAMP, STAIR AND LANDING.
 - PHASE 03 - JULY 8TH, 2024 - JANUARY 6TH, 2025 = CONSTRUCT NEW GYMNASIUM ADDITION COMPLETE WITH NEW PARKING LOT.
 - PHASE 04 - JANUARY 6TH, 2025 - MAY 30TH, 2025 = INTERIOR DEMOLITION OF EXISTING GYMNASIUM AND RENOVATION INTO NEW LIBRARY LEARNING COMMONS AND RESOURCE ROOM.
 - PHASE 05 - JULY 2ND, 2025 - AUGUST 22ND, 2025 = DECONSTRUCT TEMPORARY PARKING LOT AREA, REGRADE ENTIRE PLAYFIELD, AND INSTALL SOD.
- SUBSTANTIAL PERFORMANCE/READY-FOR-TAKEOVER AUGUST 22ND, 2025



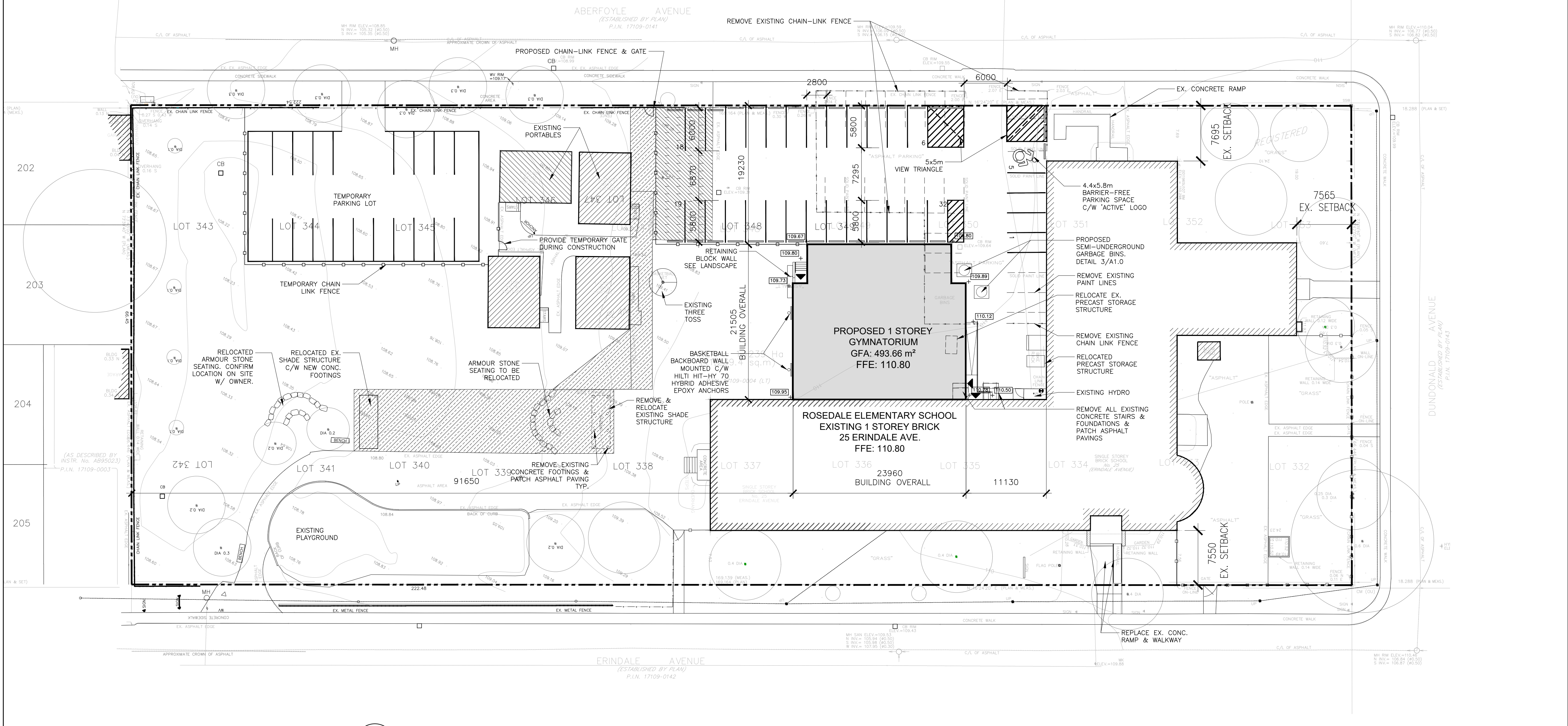
3 SEMI-UNDERGROUND GARBAGE CONTAINER SECTION
A1.0 1:50

SITE STATISTICS TABLE		PHASE 2 ADDITION	
PROPERTY LOCATION:		25 ERINDALE AVE., HAMILTON, ONTARIO	
A. ZONING CATEGORY	I1 (NEIGHBOURHOOD INSTITUTIONAL, BY-LAW 05-200)	I1	
B. LOT AREA (SQ.M./HA)	N/A	10,589.09 m ² (1.06 HA)	
C. TOTAL GROSS FLOOR AREA (SQ.M.)		GROUND FLOOR (EXISTING): 2,004.6 m ²	PROPOSED ADDITIONS: GYMNASIUM - 493.7 m ²
		TOTAL GROSS FLOOR AREA 2,498.3 m ²	
D. NET LOT COVERAGE (SQ.M.)	N/A	N/A	
E. FRONT YARD SETBACK (M)	6.0m (MINIMUM) WHERE PROPERTY LINE ABUTS A RESIDENTIAL ZONE	FRONT (WEST)	7.550 m
F. REAR YARD SETBACK (M)	PROPERTY LINE.	EAST	7.695 m
G. EXTERIOR SIDE YARD SETBACK (M)	(HAMILTON BY-LAW 8.1.3.2)	NORTH	+/- 80 m
H. EXTERIOR SIDE YARD SETBACK (M)		SOUTH	7.565 m
J. NUMBER OF PARKING SPACES	1.25 SPACES FOR EACH CLASSROOM, iii. EDUCATIONAL USES, ELEMENTARY SCHOOL. 11 CLASS. X 1.25 = 14 SP. REQ'D	EXISTING: 26 SPACES	PROPOSED: 32 SPACES
K. NUMBER OF ACCESSIBLE PARKING SPACES	MINIMUM 1 ACCESSIBLE SPACES ARE REQUIRED FOR 0-49 REQUIRED PARKING SPACES (4.4x5.8m)	REQUIRED: 1 SPACE	EXISTING: 1 SPACE
L. NUMBER OF LOADING SPACES	N/A		
M. PARKING STALL DIMENSIONS (M)	MINIMUM 2.8 m X 5.8 m	NEW 2.8 m X 5.8 m	EXISTING MIN. 2.6 m X 5.5 m
N. LOADING SPACE DIMENSIONS	N/A		
O. NET PERCENTAGE OF LANDSCAPED AREA	MINIMUM LANDSCAPED OPEN SPACE: N/A. NOT INCLUDING ASPHALT AREAS, ROADWAYS OR PAVED SIDEWALKS.		
P. BUILDING HEIGHT (M)	10.5 m (MAXIMUM) In addition to above, maximum building height may be equivalently increased as yard increases beyond minimum yard requirement	GYMNASIUM ADDITION PROPOSED: 9.335 m FROM AVERAGE GRADE	

- LEGEND**
- PROPOSED ADDITION
 - EXISTING BUILDING
 - NEW WALKWAY (1:20 MAX. SLOPE)
 - NEW LIGHT DUTY ASPHALT PAVING
 - NEW MEDIUM DUTY ASPHALT PAVING
 - LANDSCAPED AREA - REPAIR GRADING & ADD SOD
 - NEW PLANTING STRIP - SHRUBS & GROUND COVER
 - EXISTING STEEL POST
 - MANHOLE COVER (EX.=EXISTING)
 - FIRE HYDRANT
 - UTILITY POLE / HYDRO POLE
 - GOAL POST
 - CATCH BASIN (EX.=EXISTING)
 - NEW BIKE RACKS/STORAGE
 - EX.CHAIN LINK FENCE
 - NEW CHAIN LINK FENCE
 - ORNAMENTAL FENCE
 - CONCRETE PRECAST BUMPER
 - PAINTED PARKING LINE
 - PROPERTY LINE
 - PRIMARY ACCESS / EXIT
 - SECONDARY ACCESS / EXIT
 - GAS LINE
 - DEMOLITION
 - EXISTING ELEVATIONS
 - PROPOSED ELEVATIONS (FOR REF. ONLY REFER TO CIVIL DRAWING FOR COMPLETE GRADING PLAN)
 - TREE STUMP/SAPLING
 - EXISTING TREES
 - EXISTING TREES TO BE REMOVED
 - NEW TREE

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1 SITEPLAN
A1.0 1:300

GENERAL NOTES

- TYPICAL RADIUS OF CURB TO BE 800mm UNLESS OTHERWISE NOTED.
- POLE MOUNTED BARRIER FREE SIGNAGE IS TO BE PROVIDED DEMARKATING BARRIER PARKING SPACES IN COMPLIANCE WITH R.R.O 1990 REG. 581 UNDER THE HIGHWAY TRAFFIC ACT.

SURVEY INFORMATION

TAKEN FROM THE FOLLOWING SURVEY - ORIGINAL SCALE 1:200. INFORMATION NOW SHOWN AT 1:300

SURVEYOR'S REAL PROPERTY REPORT (WITH TOPOGRAPHIC FEATURES) PLAN SHOWING LOT 332 TO 353 (INCLUSIVE), REGISTERED PLAN NO. 538 CITY OF HAMILTON

TOPOGRAPHIC SURVEY OF PART OF LOT 9 CONCESSION 5 GEOGRAPHIC TOWNSHIP OF BARTON IN THE CITY OF HAMILTON

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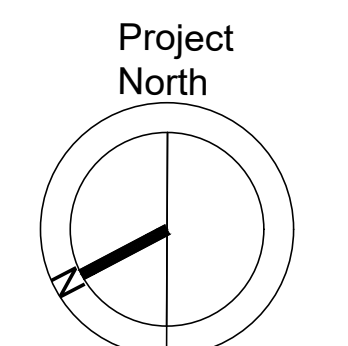
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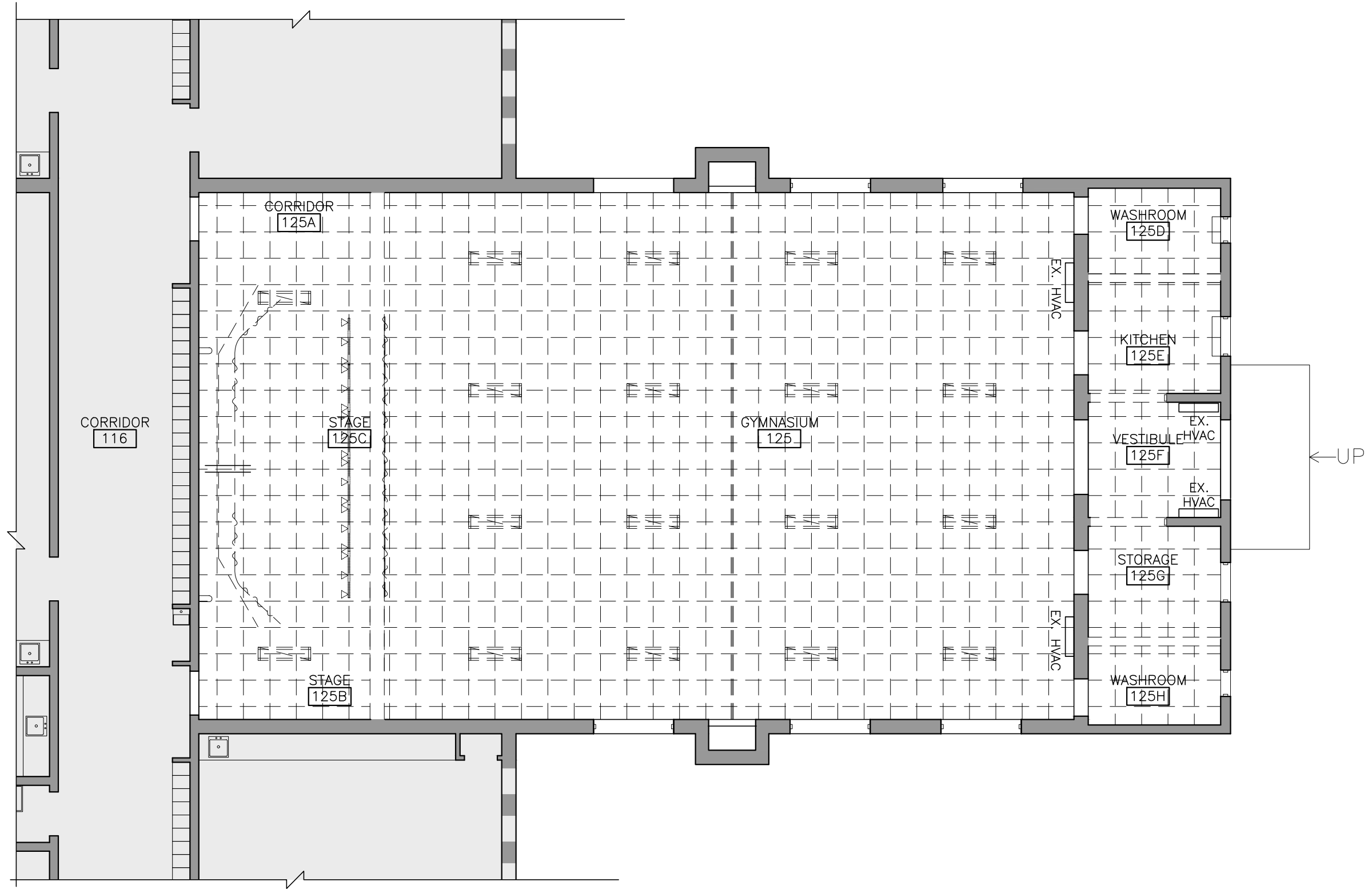
Addition to
HWDSB Rosedale Elementary School
25 Erindale Ave.
Hamilton, Ontario L8N 3L1

Dwg. Title:
Site Plan & Phasing Plan

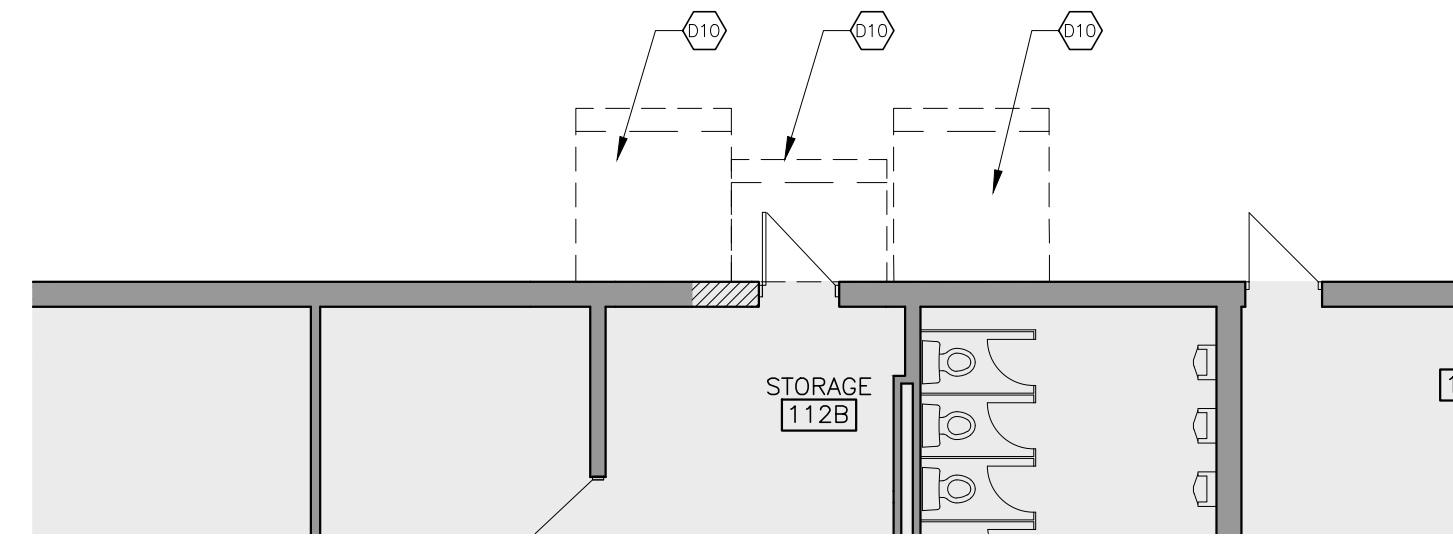
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Proj. No.: 23011
Scale: As noted
Date: 10/24/23

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A1.0

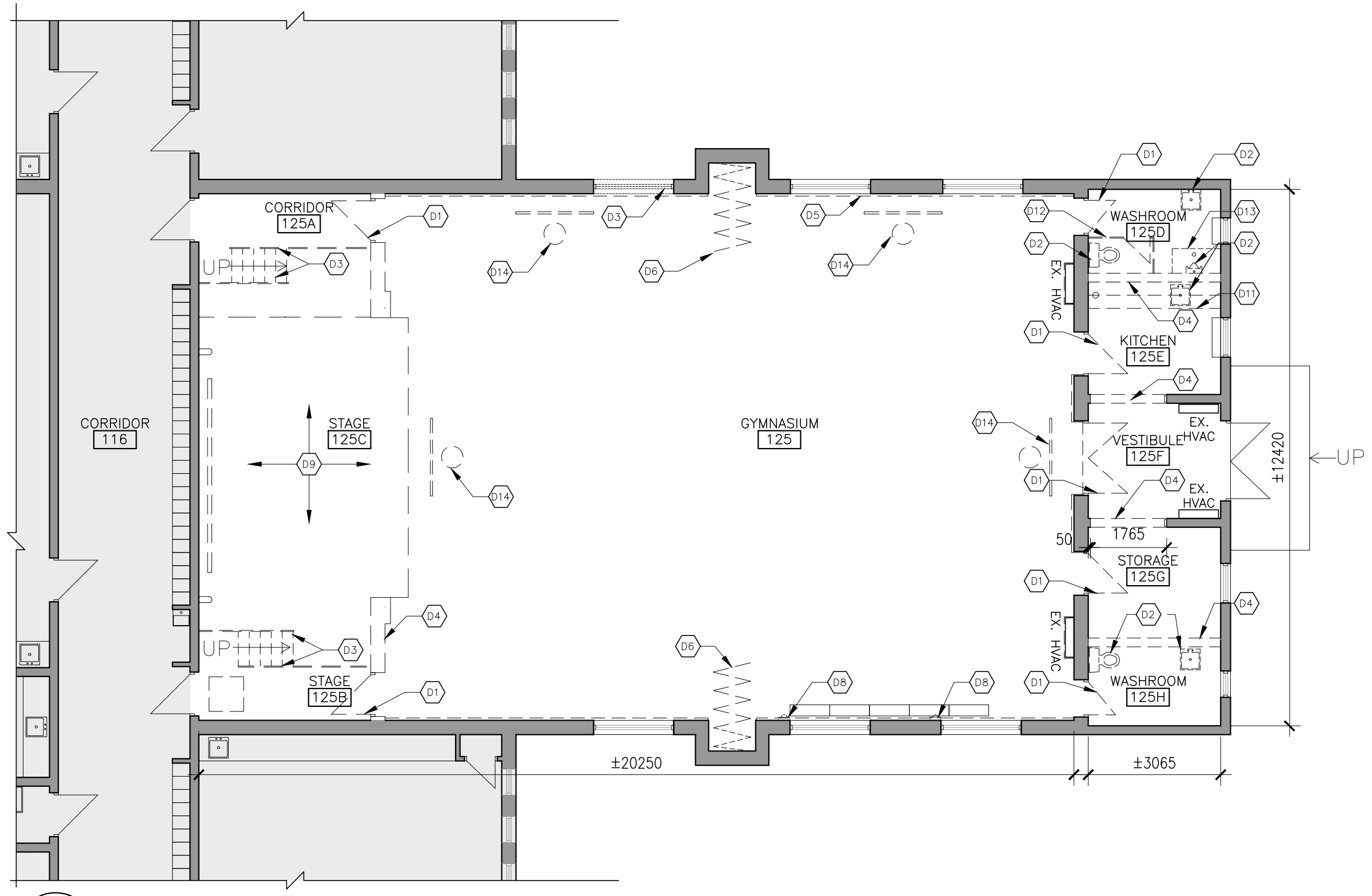




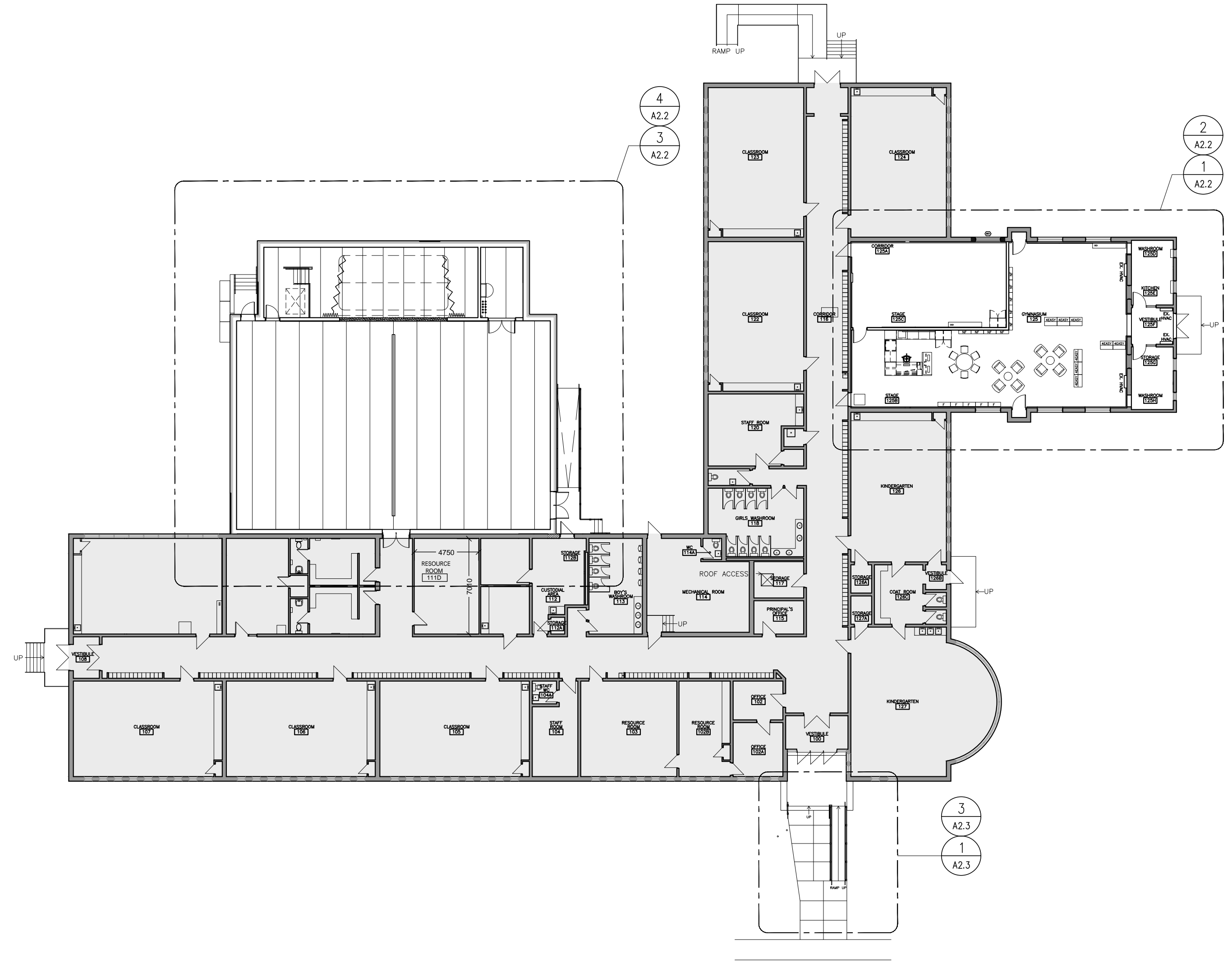
4 GROUND FLOOR DEMOLITION REFLECTED CEILING PLAN
A2.1 1:100



2 GROUND FLOOR DEMOLITION PLAN AT BACK ENTRANCE
A2.1 1:100



3 GROUND FLOOR DEMOLITION PLAN
A2.1 1:100



1 GROUND FLOOR KEY PLAN
A2.1 1:250

DEMO KEYNOTES

- NOTE: ALL KEYNOTES MAY NOT BE USED
- D1 REMOVE EXISTING DOORS/FRAMES & ALL ASSOCIATED ITEMS. PATCH AND REPAIR THE ADJACENT SURFACES.
 - D2 REMOVE EXISTING PLUMBING FIXTURES, & ALL OTHER ASSOCIATED ITEMS. COORDINATE WITH MECHANICAL. PATCH AND MAKE GOOD ALL DISTURBED AREAS.
 - D3 REMOVE EXISTING WINDOW & CUT TO CREATE OPENING FOR NEW EXTENDED WINDOW. REFER WINDOW DETAIL 6/AO.2
 - D4 REMOVE EXISTING WALLS AS SHOWN & PATCH & REPAIR THE ADJACENT SURFACES AS REQUIRED.
 - D5 REMOVE EXISTING WALL PADDING & ASSOCIATED SURFACES. TYPICAL TO ALL LOCATIONS.
 - D6 REMOVE EXISTING FOLDING PARTITION AND ASSOCIATED ITEMS INCLUDING CEILING TRACK. PATCH AND MAKE GOOD ALL SURFACES.
 - D7 RESERVED.
 - D8 REMOVE WINDOW OPERATOR HARDWARE & ASSOCIATED ITEMS. REPAIR ALL DISTURBED SURFACES.
 - D9 REMOVE EXISTING STAGE STRUCTURE AND ASSOCIATED ITEMS. COORDINATE WITH ELECTRICAL. PATCH AND MAKE GOOD ALL DISTURBED SURFACES. PREPARE THE FLOOR TO ACCEPT NEW FLOOR FINISHES.
 - D10 REMOVE EXISTING CONCRETE STAIRS, LANDINGS, FOUNDATIONS, METAL HANDRAILS AND ALL ASSOCIATED ITEMS. PREPARE EX-FLOOR SLAB TO ACCEPT NEW FINISHES.
 - D11 REMOVE EXISTING MILLWORK. PATCH AND MAKE GOOD ALL DAMAGED SURFACES.
 - D12 REMOVE EXISTING TOILET PARTITIONS, PATCH AND MAKE GOOD ALL DAMAGED SURFACES.
 - D13 REMOVE EXISTING FLOORING. PATCH AND MAKE GOOD ALL DAMAGED SURFACES.
 - D14 REMOVE EXISTING BASKETBALL NETS, FRAMES AND ALL ASSOCIATED ITEMS. PATCH AND MAKE GOOD ALL DAMAGED SURFACES. TYPICAL TO ALL LOCATIONS.

GENERAL DEMO NOTES

1. PATCH AND MAKE GOOD ALL AREAS AFFECTED BY DEMOLITION.
2. REMOVE EXISTING GYMNASIUM CEILING TILE, LIGHT FIXTURES, HVAC DIFFUSERS, STAGE CURTAINS AND RIGGING, MOVEABLE WALL TRACK & PARTITIONS
3. REMOVE EXISTING GYMNASIUM FLOORING. PATCH AND LEVEL FOR NEW FLOORING.

PLAN LEGEND

- EXISTING
- DEMOLITION
- NEW CONSTRUCTION
- NEW WALL
- EXISTING DOOR TO REMAIN
- NEW DOOR

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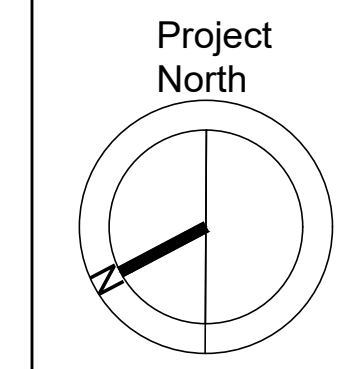
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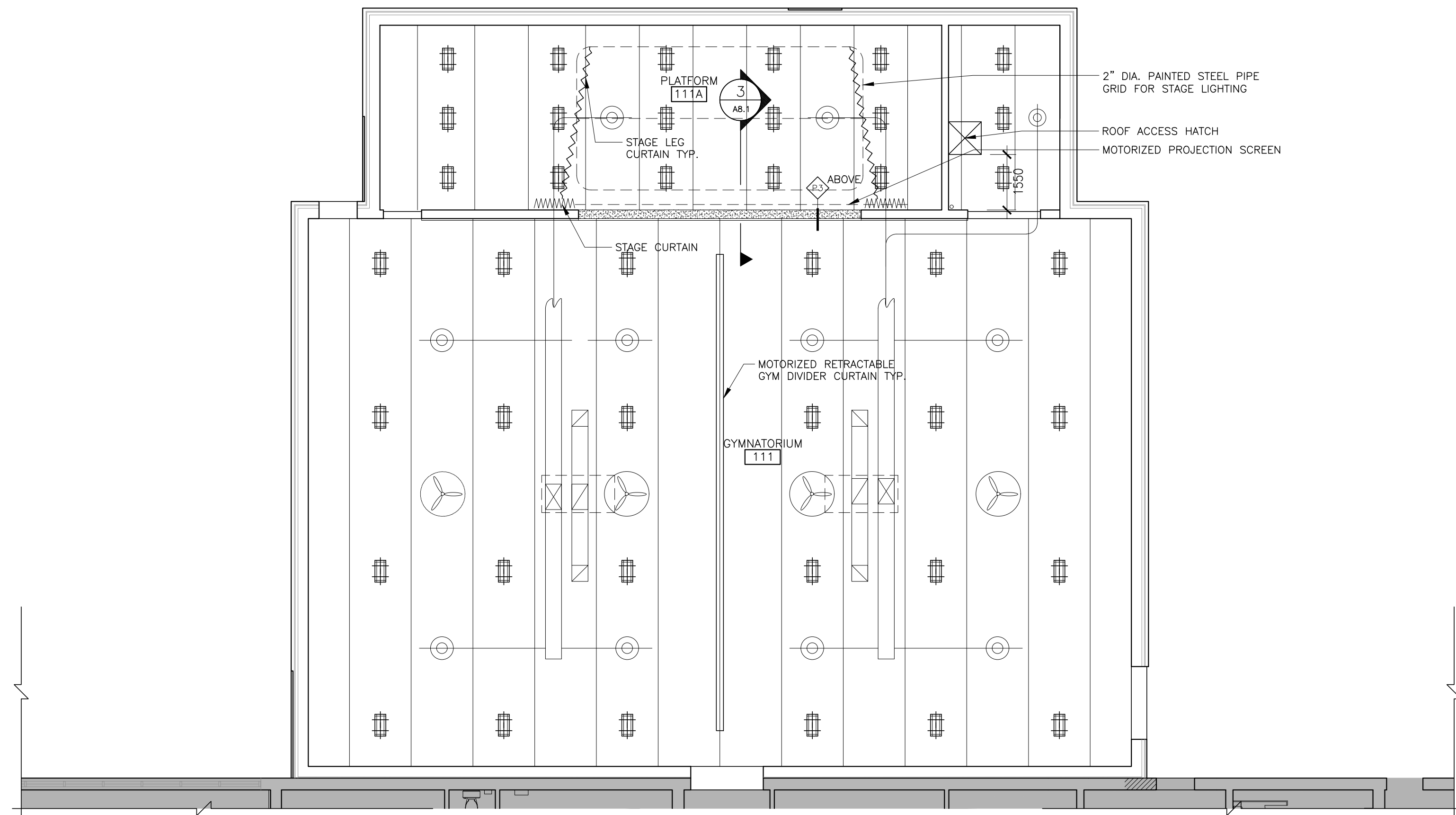
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HWDSB Rosedale Elementary School
25 Erindale Ave.
Hamilton, Ontario L8N 3L1

Dwg. Title:
Demolition Floor Plans & Reflected Ceiling Plan

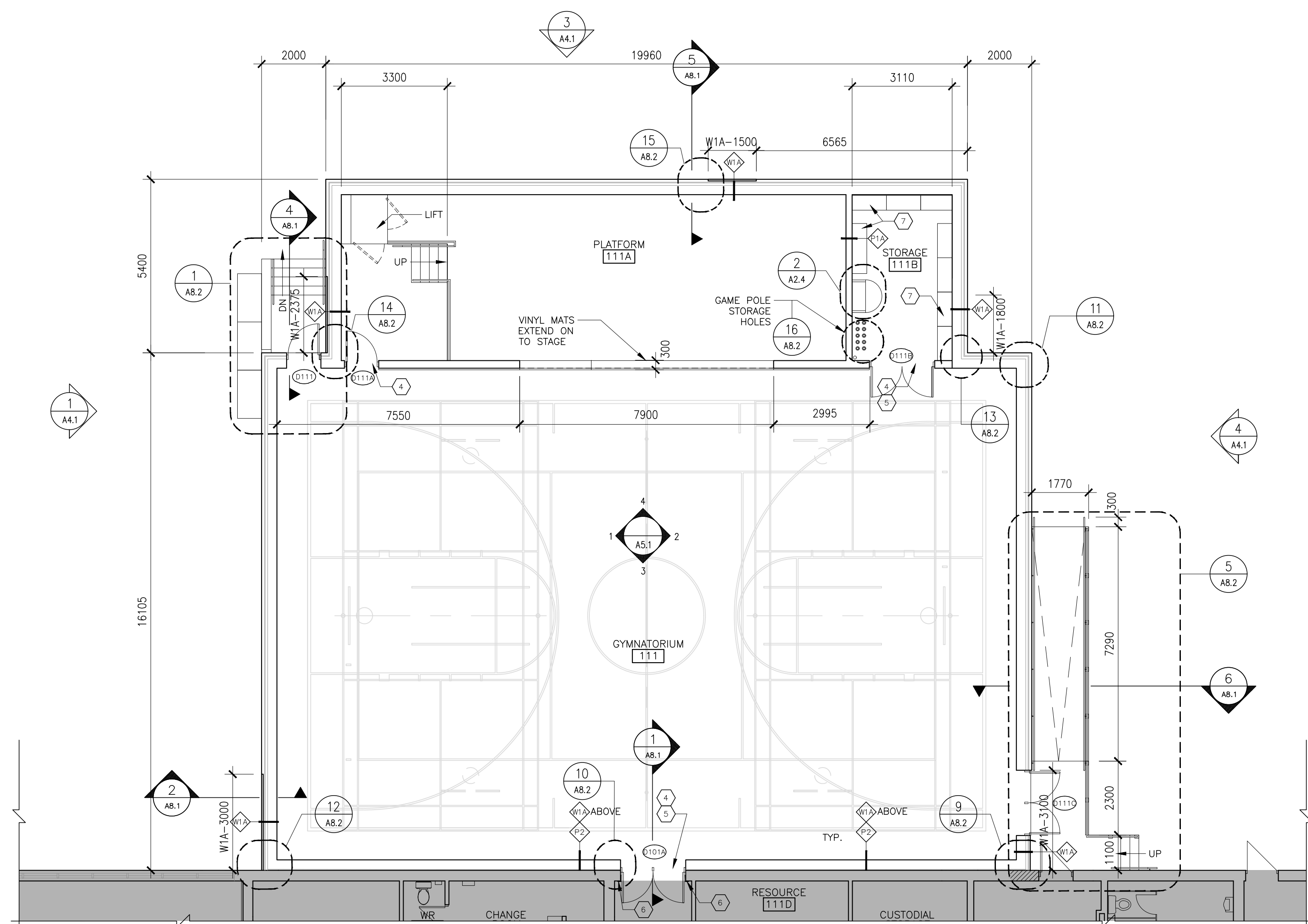
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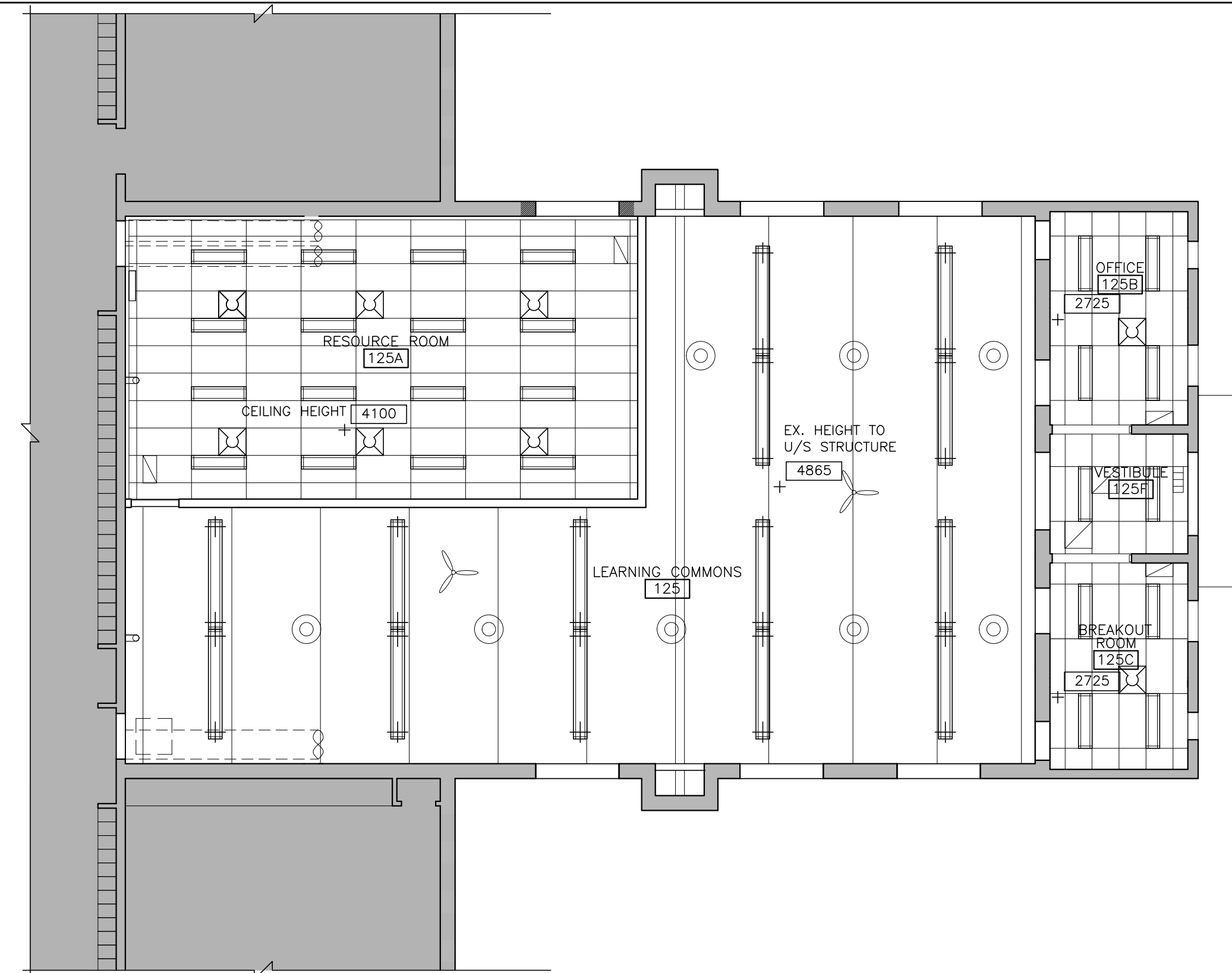




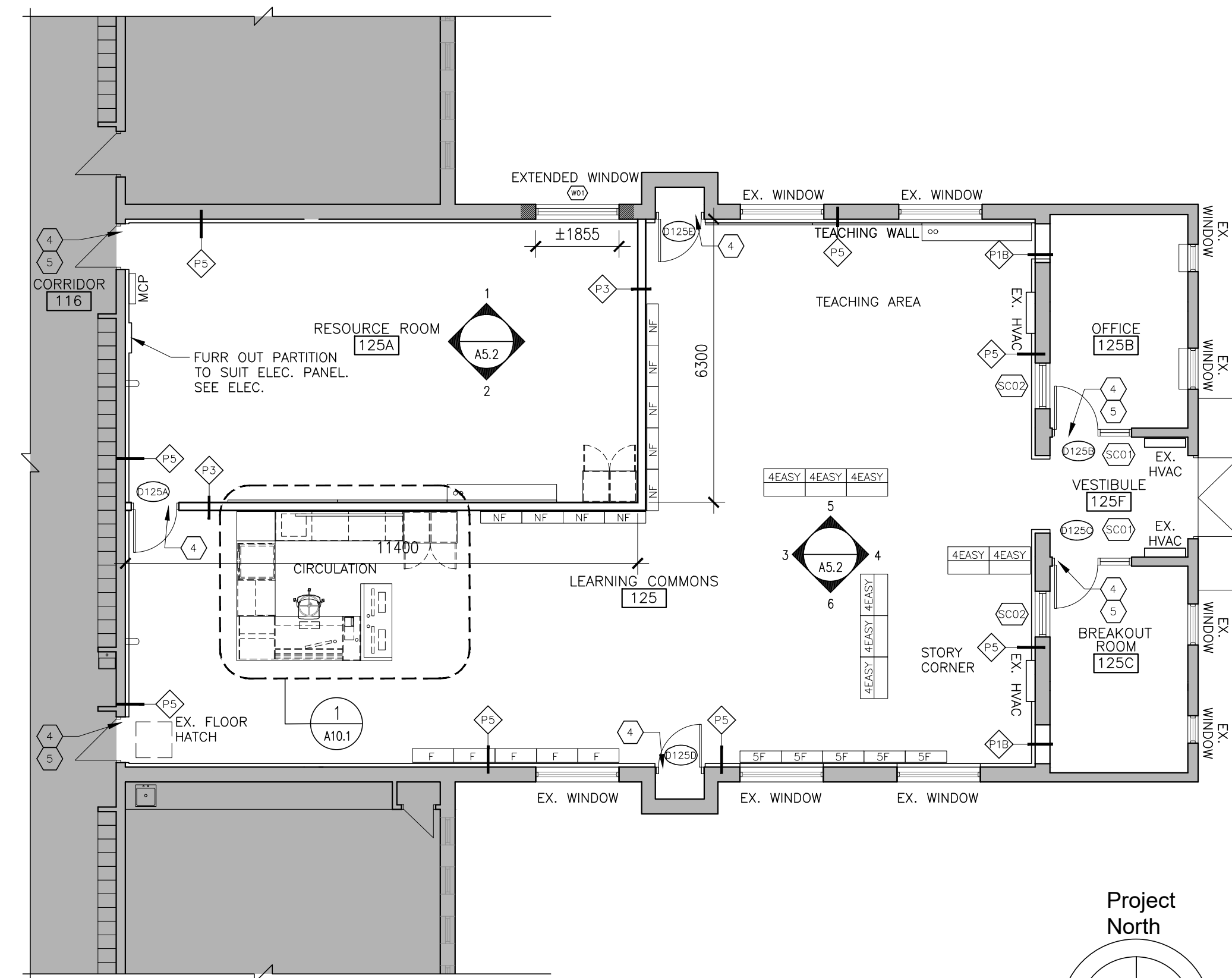
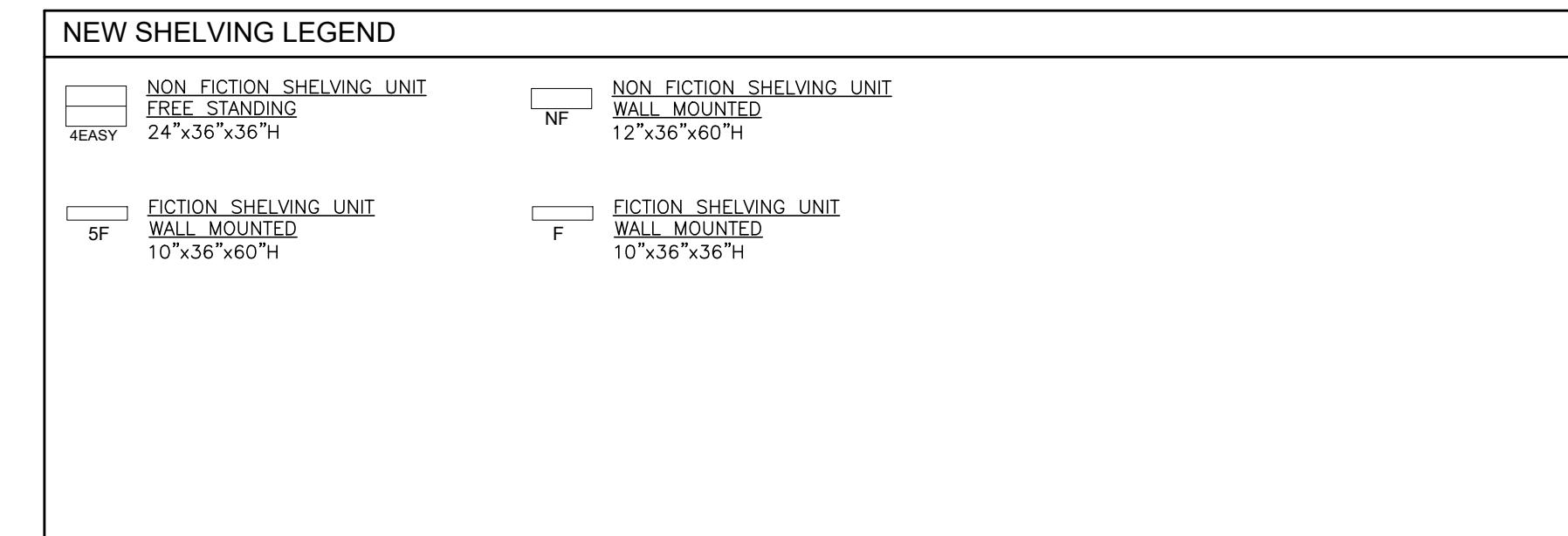
4 REFLECTED CEILING PLAN / GYMNASIUM
A2.2 1:100



3 GROUND FLOOR PLAN / GYMNASIUM
A2.2 1:100

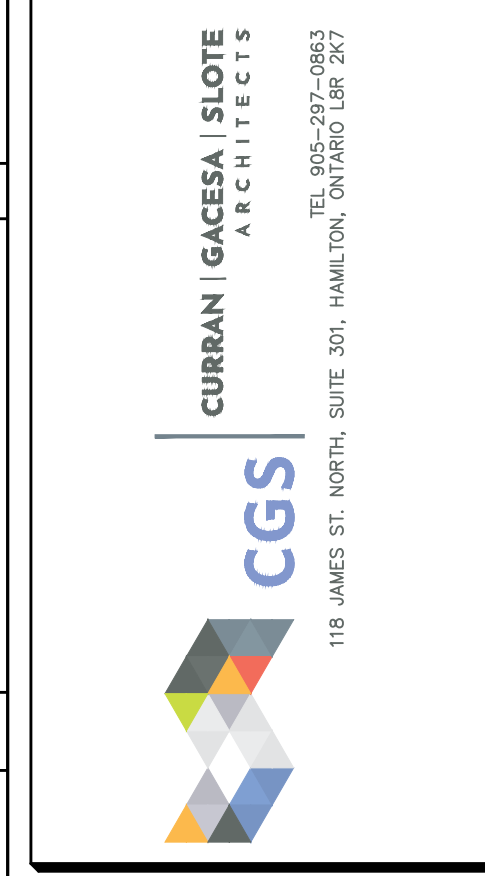
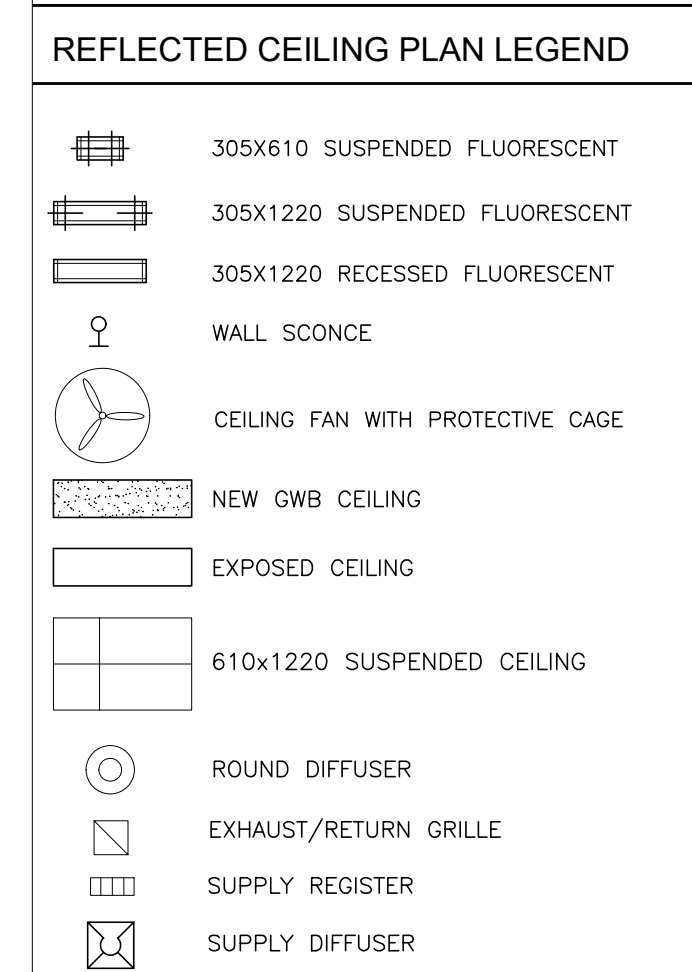
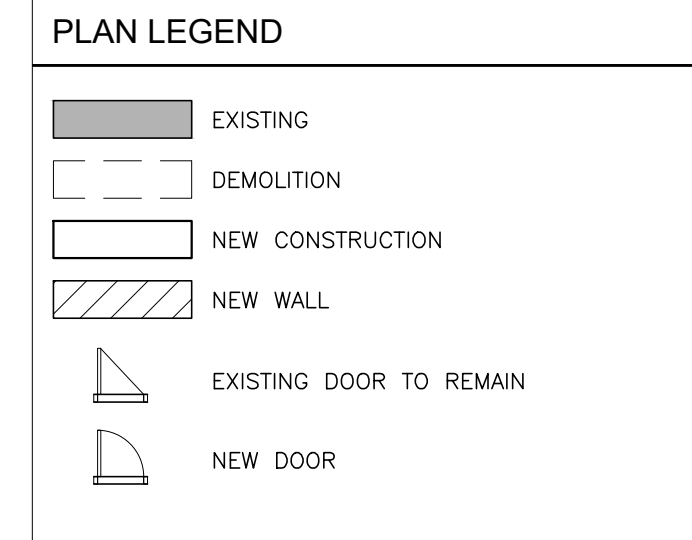


2 REFLECTED CEILING PLAN / LEARNING COMMONS
A2.2 1:100



1 GROUND FLOOR PLAN / LEARNING COMMONS
A2.2 1:100

- PLAN KEYNOTES**
- NOTE: ALL KEYNOTES MAY NOT BE USED
- NEW CONCRETE SLAB BROOM FINISH. MAKE GOOD ALL DISTURBED SURFACE
 - CONTROL JOINT. PROVIDE COMPRESSIBLE FILLER STRIP BETWEEN SLAB & COLUMNS
 - NEW CONCRETE RAMP. COORDINATE WITH STRUCTURAL
 - SIGNAGE: DOOR FRAME TAG / TYPE 3
 - SIGNAGE: ROOM I.D. / TYPE 6-15
 - PROVIDE CONTINUOUS PAINTED 175X65X3 STEEL ANGLE TRIM AT JAMB AND HEADER.
 - METAL STORAGE SHELVING
- GENERAL PLAN NOTES**
- PATCH & MAKE GOOD AT ALL JUNCTION OF NEW & EXISTING WORK.
 - NEW DOORS AT NEW & EXISTING BUILDING TRANSITION TO BE CENTERED ON THE JUNCTION OF NEW AND EXISTING WALLS
 - ALL EXTERIOR WALLS TO BE UNLESS NOTED OTHERWISE
 - LOCATE DOOR FRAMES 50mm FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
 - ROOF DRAINAGE FROM ADDITION TO TIE-IN WITH EXISTING SCHOOL STORM DRAIN.



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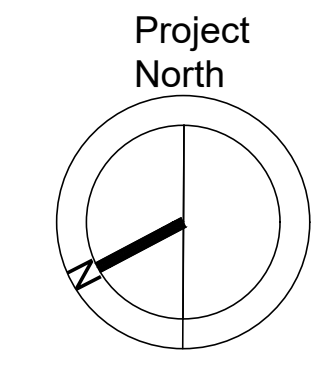
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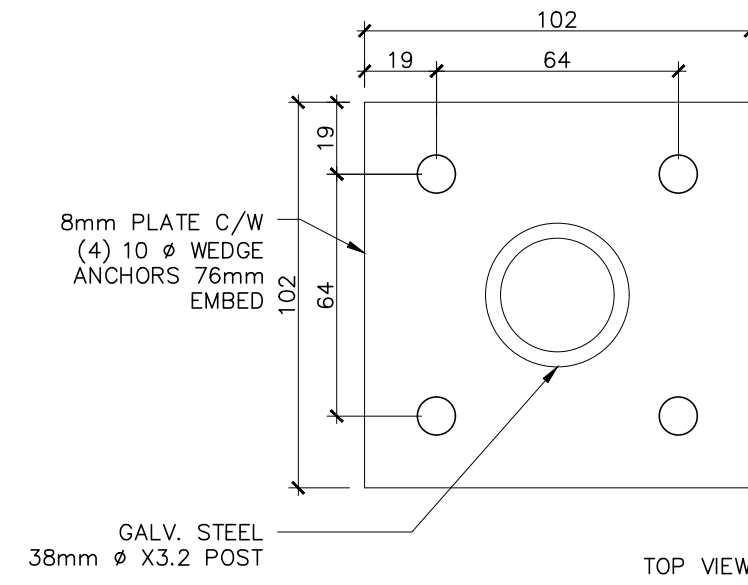
Addition to
**HWDSB Rosedale
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25 Erindale Ave.
Hamilton, Ontario L8N 3L1

Dwg. Title:
**Floor Plans &
Reflected
Ceiling Plans**

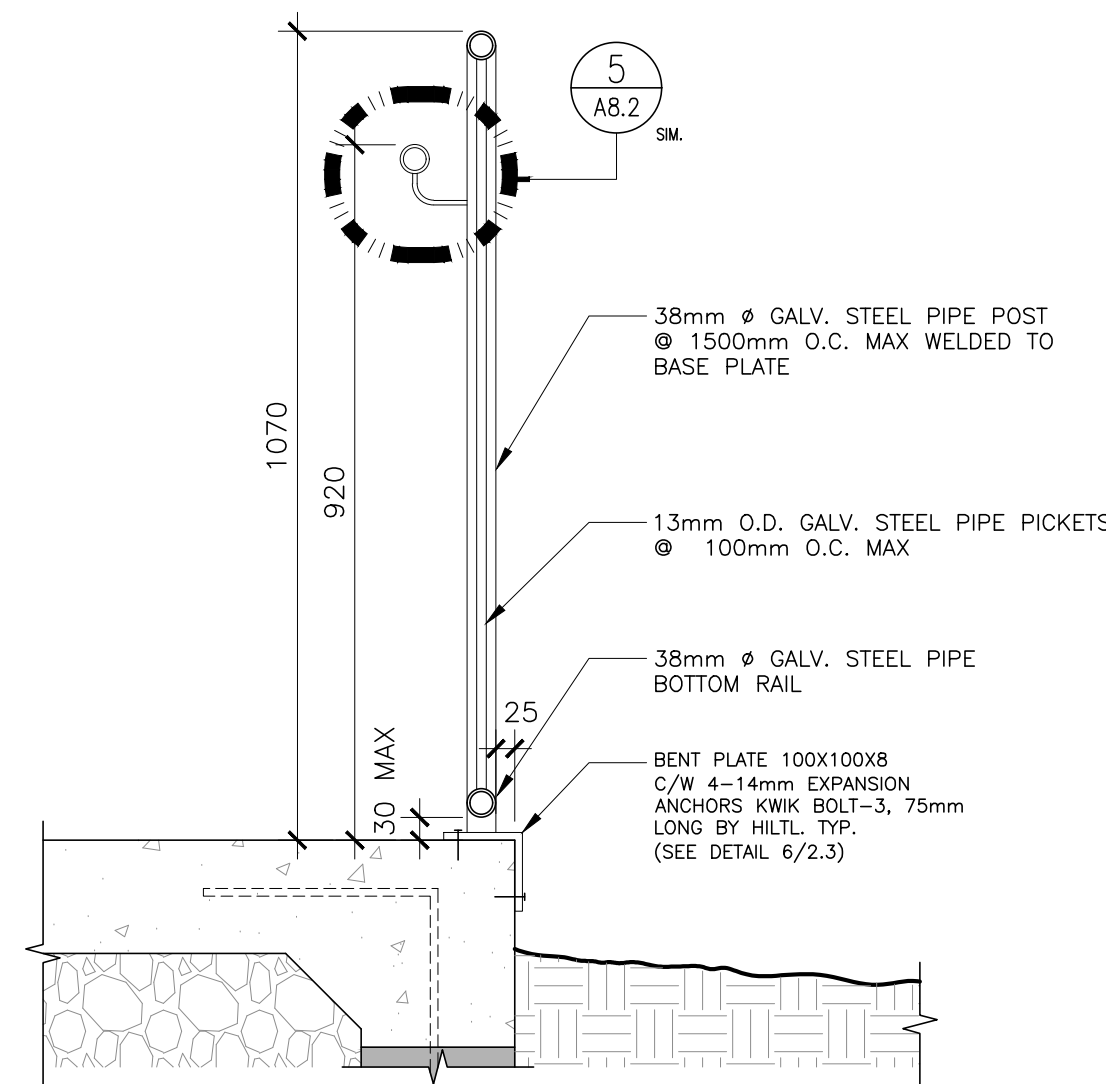
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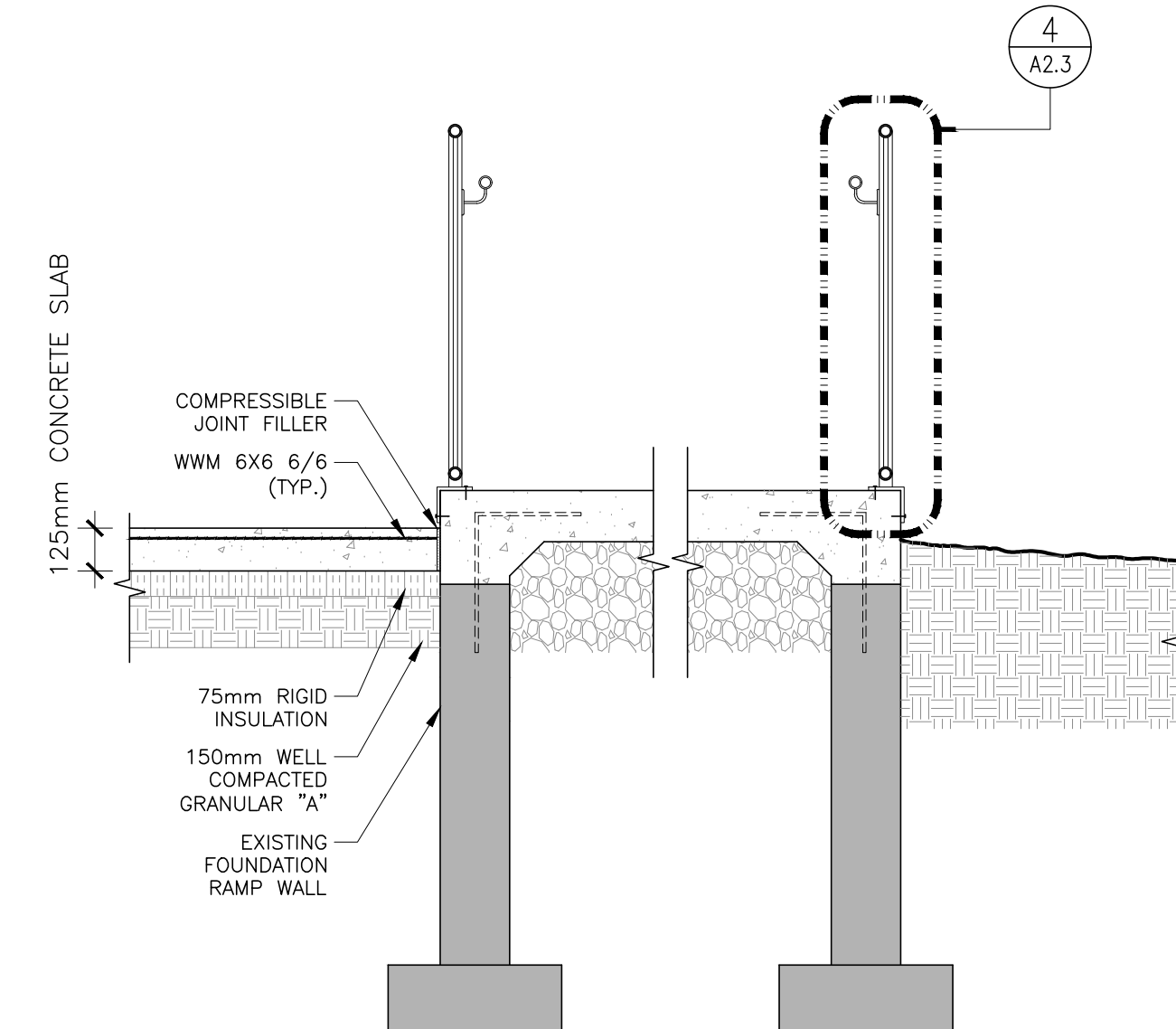




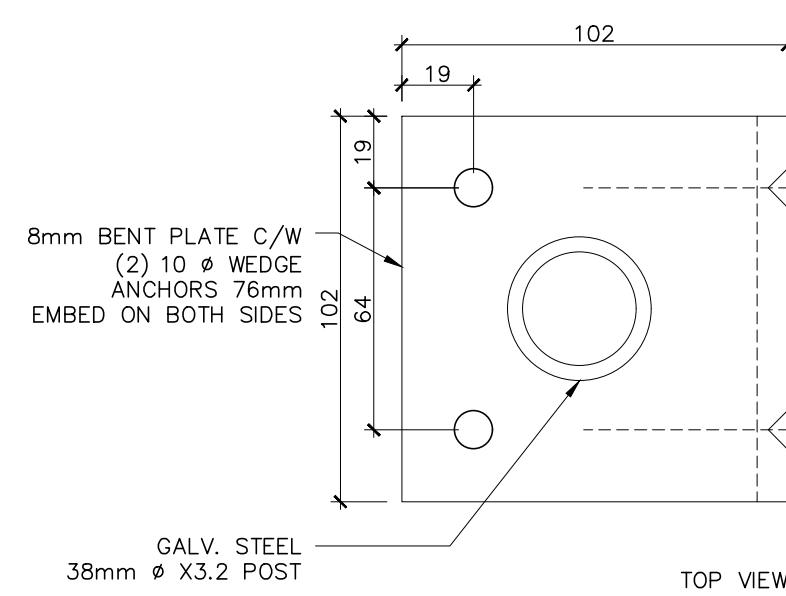
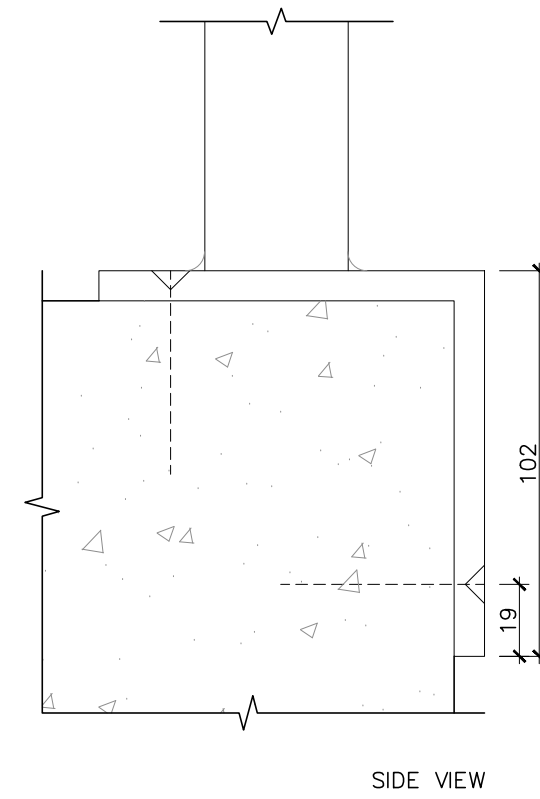
7 BASE PLATE DETAIL
A2.3 1:2



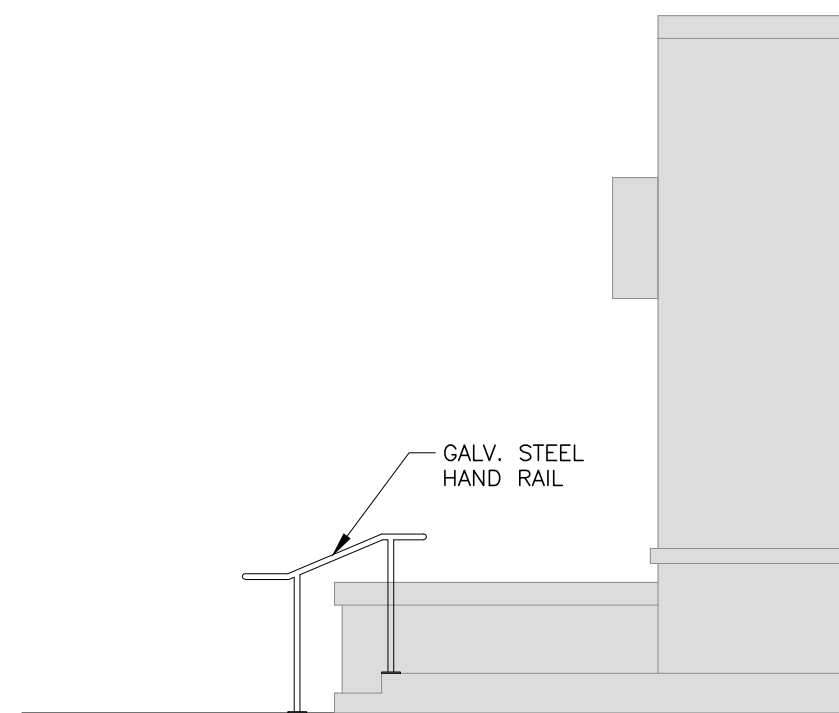
4 SECTION DETAIL @ GUARDRAIL
A2.3 1:10



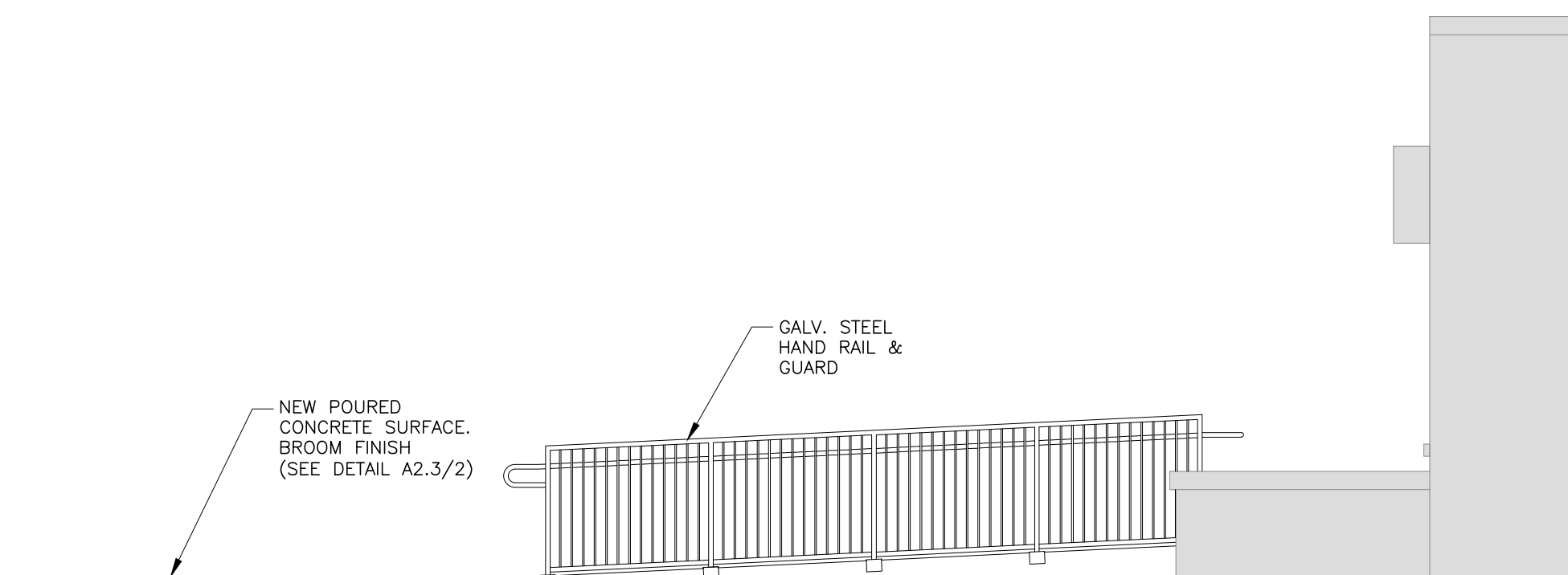
2 SECTION DETAIL @ RAMP
A2.3 1:20



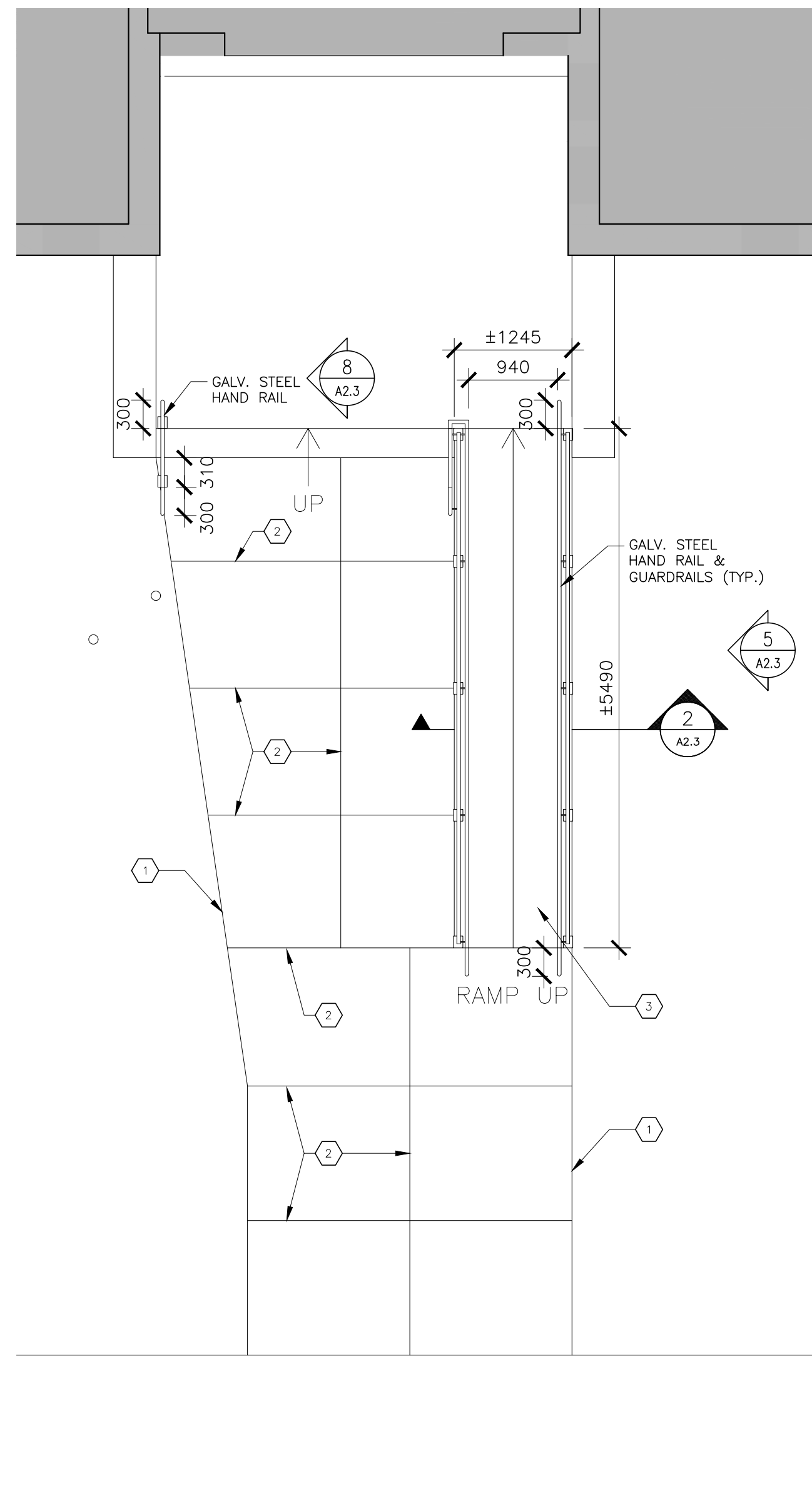
6 BENT PLATE DETAIL
A2.3 1:2



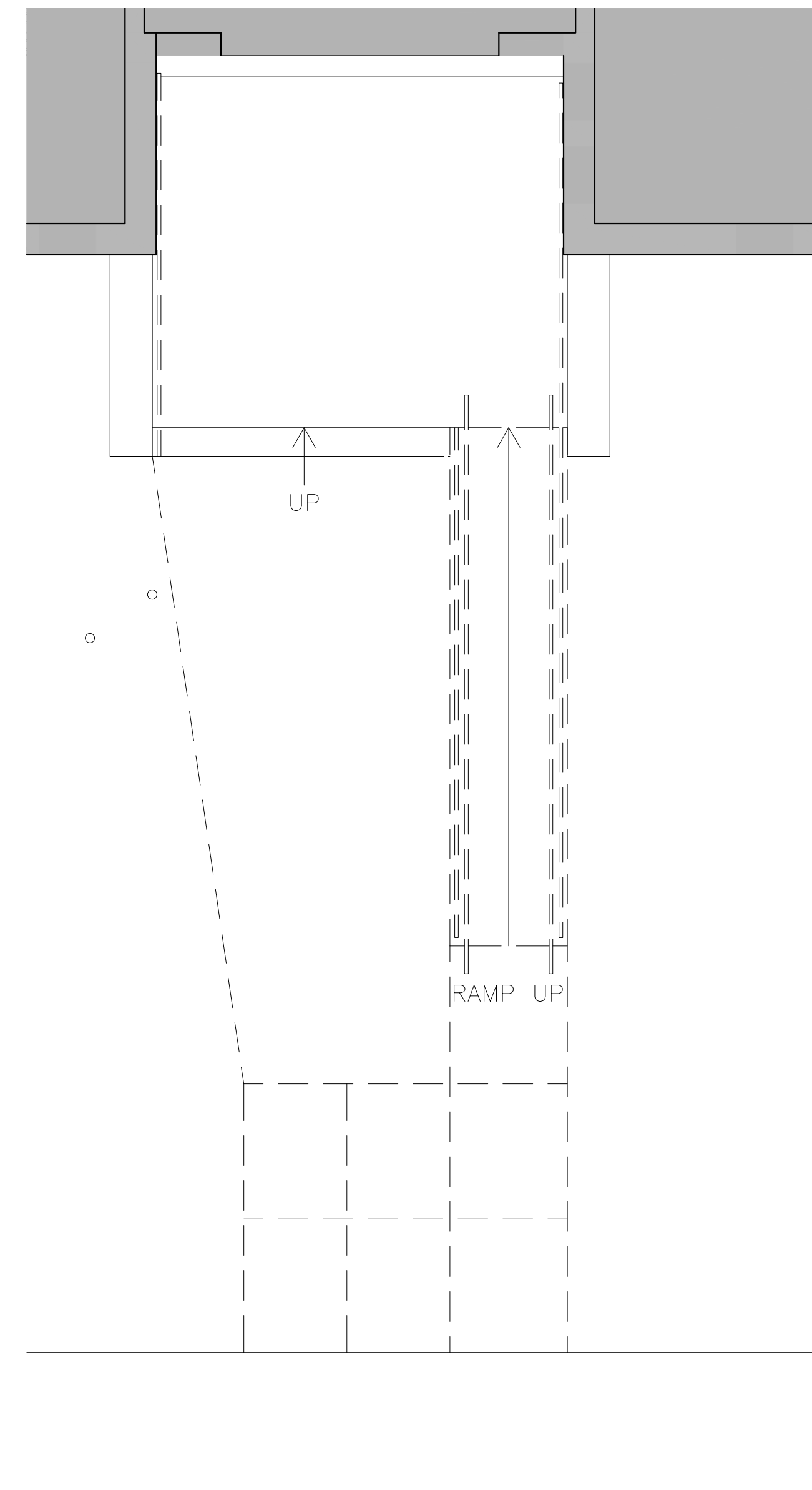
8 EAST ELEVATION @ EX. STAIR RAILING
A2.3 1:50



5 EAST ELEVATION @ RAMP RAILING
A2.3 1:50



3 PROPOSED PLAN
A2.3 1:50



1 DEMOLITION PLAN
A2.3 1:50

PLAN KEYNOTES

- NOTE: ALL KEYNOTES MAY NOT BE USED
- NEW CONCRETE SLAB BROOM FINISH. MAKE GOOD ALL DISTURBED SURFACE
 - CONTROL JOINT. PROVIDE COMPRESSIBLE FILLER STRIP BETWEEN SLAB & COLUMNS
 - NEW CONCRETE RAMP. COORDINATE WITH STRUCTURAL
 - SIGNAGE: DOOR FRAME TAG / TYPE 3
 - SIGNAGE: ROOM I.D. / TYPE 6-15
 - PROVIDE CONTINUOUS PAINTED 175X65X3 STEEL ANGLE TRIM AT JAMB AND HEADER.

GENERAL PLAN NOTES

- PATCH & MAKE GOOD AT ALL JUNCTION OF NEW & EXISTING WORK.
- NEW DOORS AT NEW & EXISTING BUILDING TRANSITION TO BE CENTERED ON THE JUNCTION OF NEW AND EXISTING WALLS
- ALL EXTERIOR WALLS TO BE UNLESS NOTED OTHERWISE
- LOCATE DOOR FRAMES 50mm FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- ROOF DRAINAGE FROM ADDITION TO TIE-IN WITH EXISTING SCHOOL STORM DRAIN.

PLAN LEGEND

- EXISTING
- DEMOLITION
- NEW CONSTRUCTION
- NEW WALL
- EXISTING DOOR TO REMAIN
- NEW DOOR

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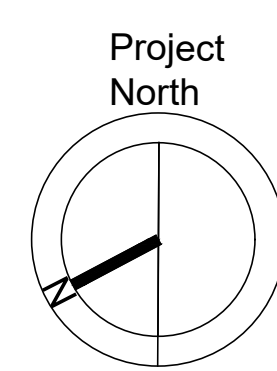
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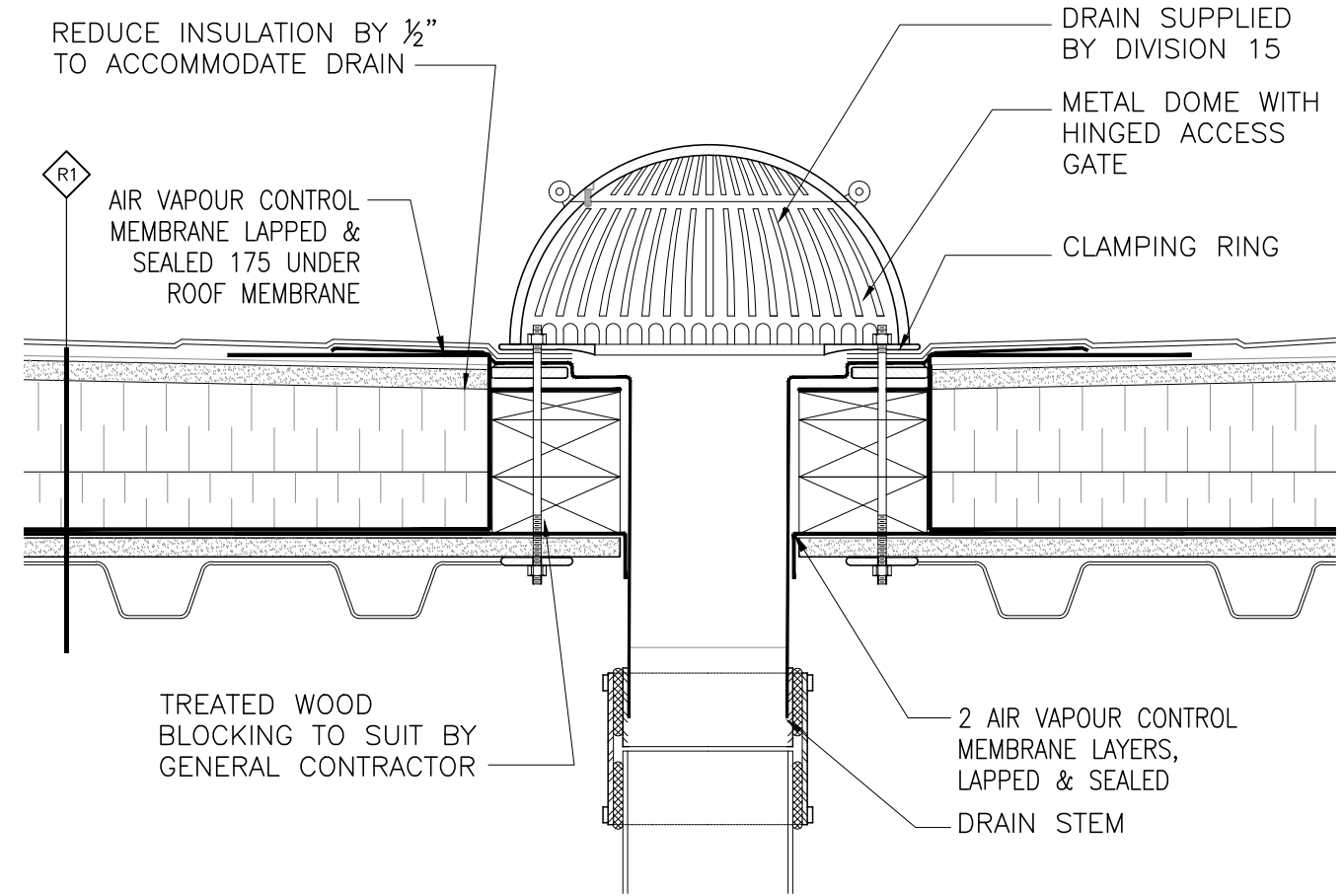
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 Hamilton, Ontario L8N 3L1

Dwg. Title:
Exterior Ramp & Details

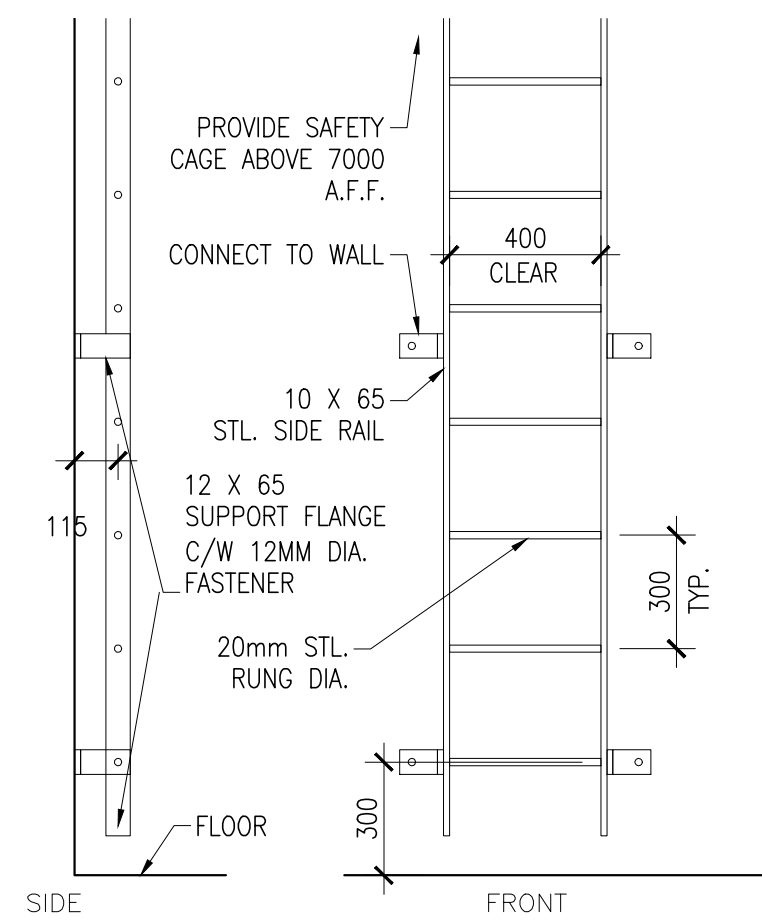
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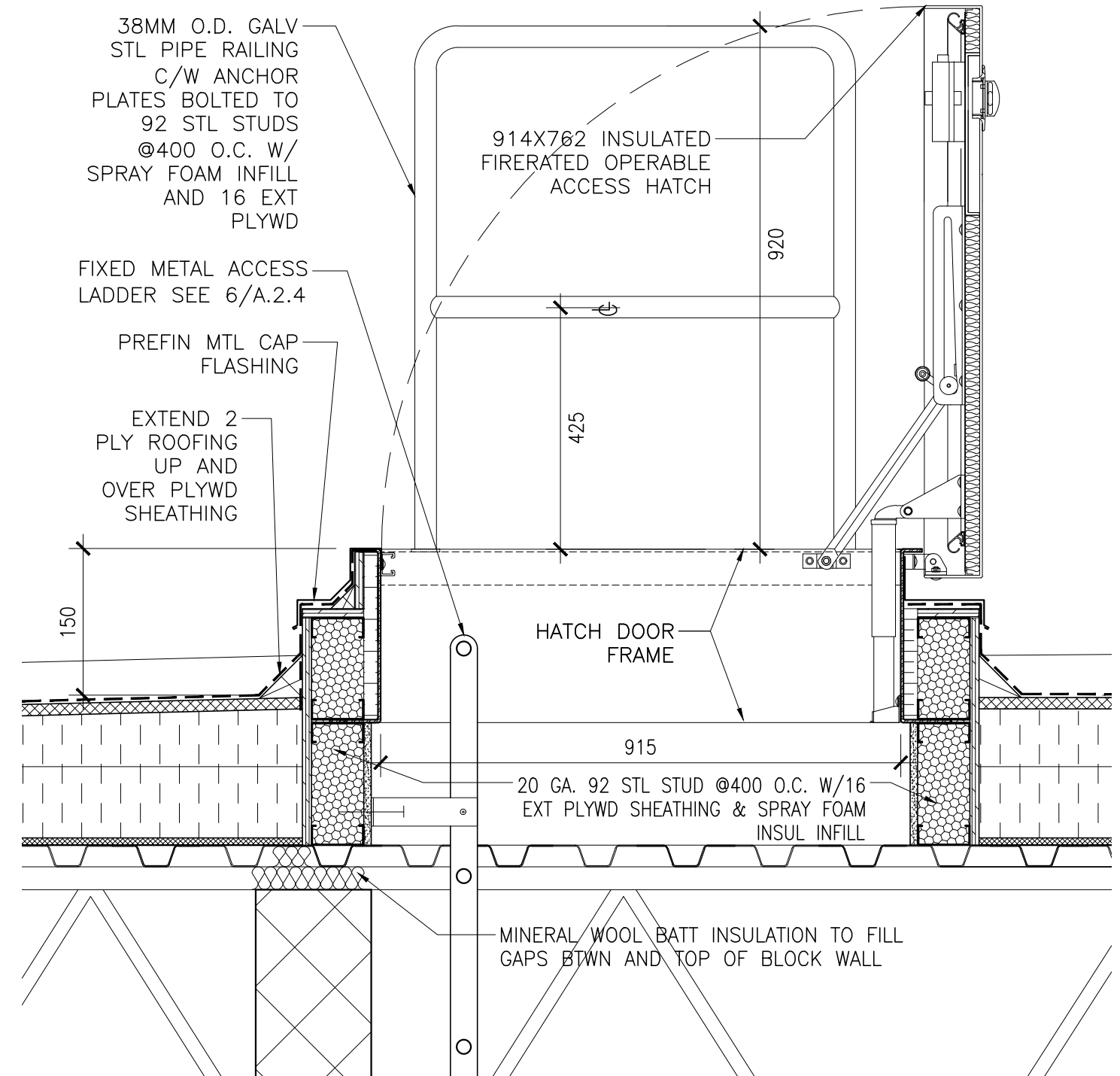




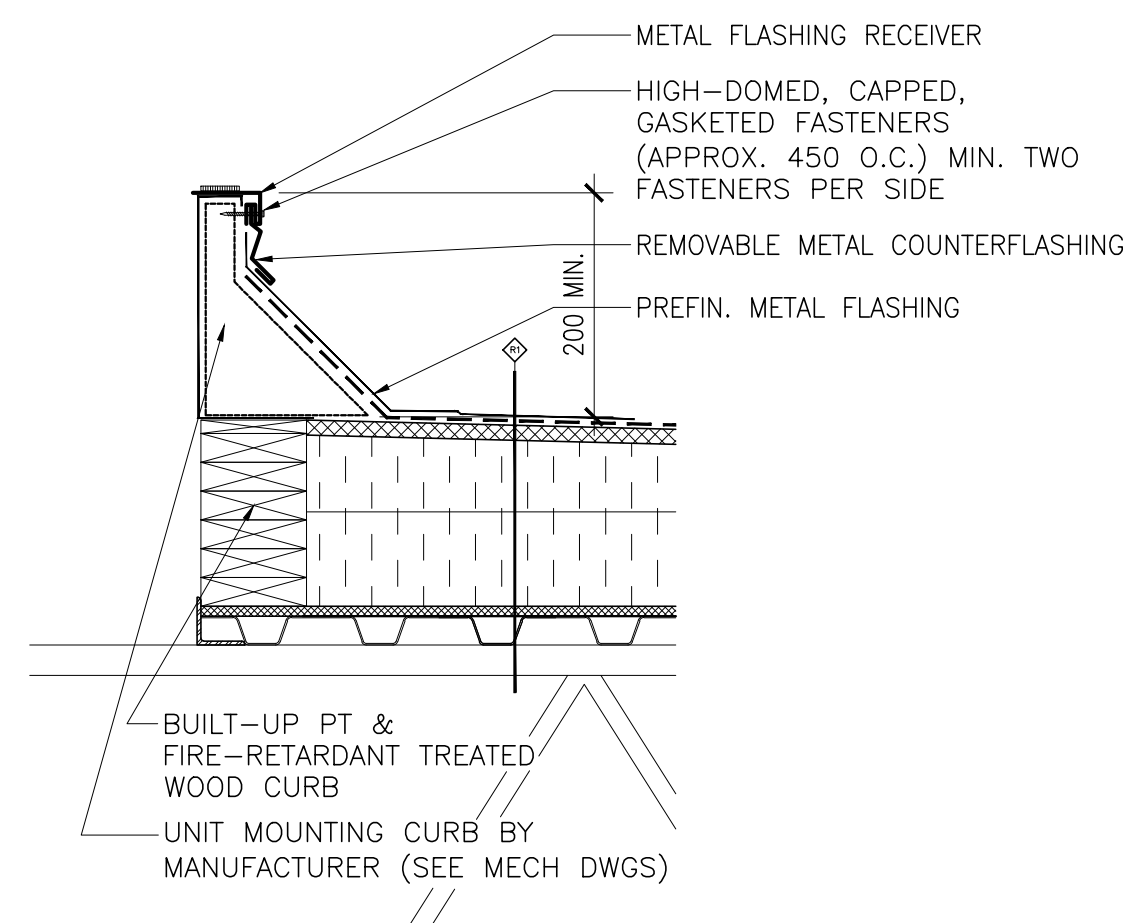
5 SECTION DETAIL AT ROOF DRAIN
A2.4 1:5



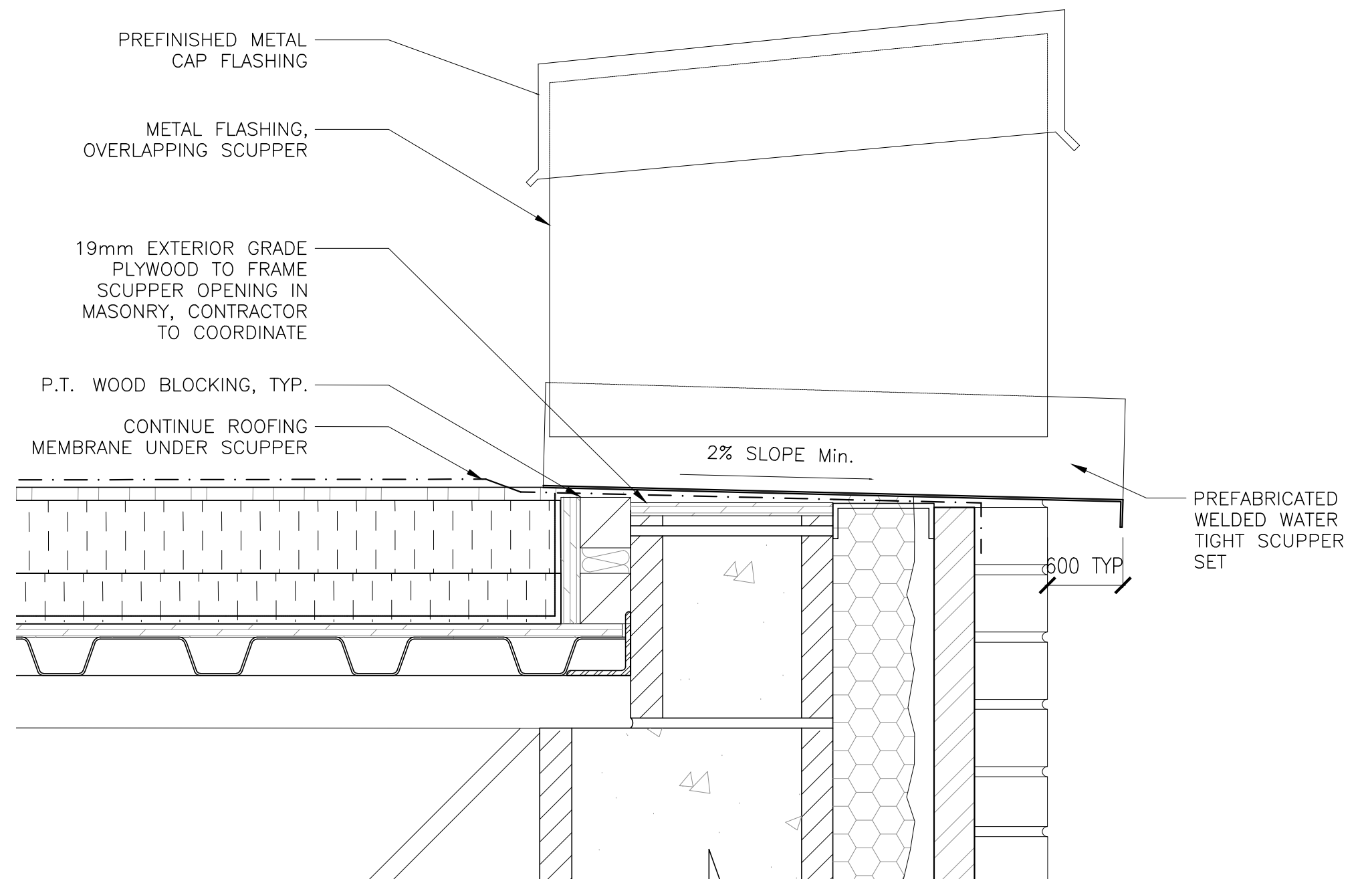
6 TYP. ACCESS LADDER DETAIL
A2.4 1:20



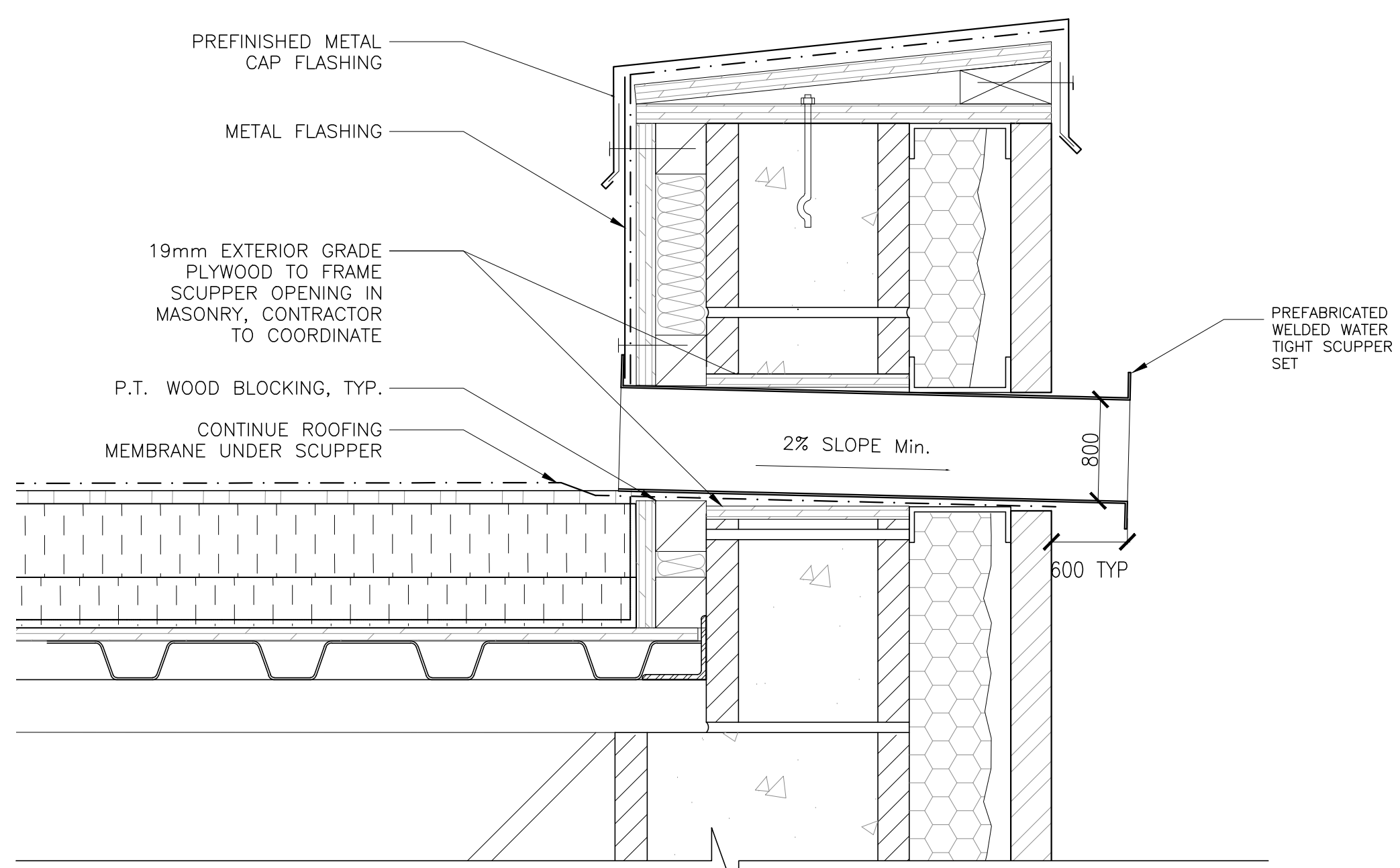
2 SECTION DETAIL AT ROOF HATCH
A2.4 1:10



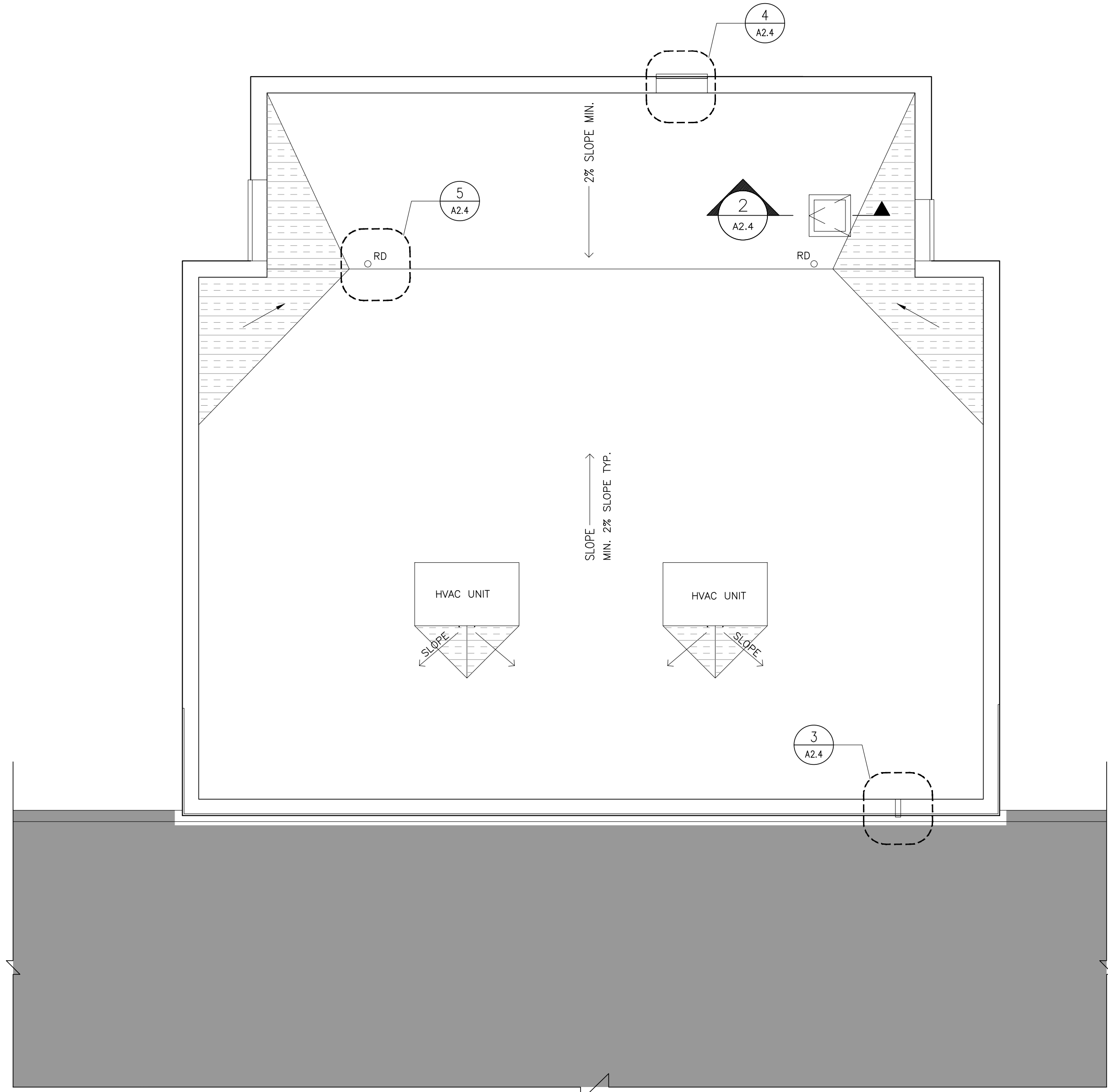
7 TYP. SECTION DETAIL AT HVAC CURB
A2.4 1:10



4 SECTION DETAIL AT SCUPPER THROUGH PW1
A2.4 1:5



3 SECTION DETAIL AT SCUPPER THROUGH PW1A
A2.4 1:5



1 GYMNASIUM ROOF PLAN
A2.4 1:100

PLAN LEGEND

- EXISTING
- SLOPED INSULATION
- ACM CLADDING

DEMO KEYNOTES

- NOTE: ALL KEYNOTES MAY NOT BE USED
- 1 REMOVE EXISTING DOORS/FRAMES & ALL ASSOCIATED ITEMS. PATCH THE ADJACENT SURFACES.
 - 2 REMOVE EXISTING PLUMBING FIXTURES, MILLWORK & ALL OTHER ASSOCIATED ITEMS.
 - 3 REMOVE EXISTING WINDOW AND WALL BELOW & CREATE OPENING FOR NEW DROPPED WINDOW.
 - 4 REMOVE EXISTING WALL AS SHOWN & PATCH & REPAIR THE ADJACENT SURFACES AS REQUIRED.
 - 5 REMOVE EXISTING WALL PADDING & ASSOCIATED ITEMS. PATCH & REPAIR THE ADJACENT SURFACES AS REQUIRED.
 - 6 REMOVE EXISTING FOLDING PARTITION AND ASSOCIATED ITEMS. PATCH AND MAKE GOOD ALL SURFACES.
 - 7 EXISTING PIPES TO REMAIN. REMOVE ASBESTOS, AND RECOVER IN PVC
 - 8 REMOVE WINDOW CURTAIN OPERATOR & ASSOCIATED ITEMS.
 - 9 REMOVE ACT TILE, LIGHT FIXTURES & MILLWORK
 - 10 REMOVE EXISTING CONCRETE STAIRS, LANDINGS, METAL HANDRAILS AND ALL ASSOCIATED ITEMS.

GENERAL DEMO NOTES

1. PATCH AND MAKE GOOD ALL AREAS AFFECTED BY DEMOLITION.
2. REMOVE EXISTING GYMNASIUM CEILING TILE, LIGHT FIXTURES, HVAC DIFFUSERS, STAGE CURTAINS AND RIGGING, MOVEABLE WALL TRACK & PARTITIONS
3. REMOVE EXISTING GYMNASIUM FLOORING, PATCH AND LEVEL FOR NEW FLOORING.

PLAN LEGEND

- EXISTING
- DEMOLITION
- NEW CONSTRUCTION
- NEW WALL
- EXISTING DOOR TO REMAIN
- NEW DOOR

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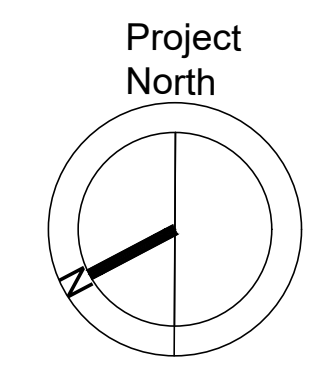
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Addition to
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Elementary School**
25 Erindale Ave.
Hamilton, Ontario L8N 3L1

Dwg. Title:
**Roof Plan
& Details**

Drwn: Chkd: WJC
Proj. No.: 23011
Scale: As noted
Date: 01/31/24

Drawing No.:
A2.4



PLAN KEYNOTES
NOTE: ALL KEYNOTES MAY NOT BE USED
① HOOP AND BACK-BOARD ABOVE

PLAN NOTES
1. ALL COURT LAYOUTS, LOCATION, COLOURS ETC. TO BE VERIFIED PRIOR TO CONSTRUCTION. NOTE: COURT LINES TO BE PAINTED.
2. THE COURT LINE OVERLAPPING IN ORDER PRIORITY SHALL BE: A) MAIN BASKETBALL B) MAIN VOLLEYBALL C) PRACTICE BASKETBALL D) PRACTICE VOLLEYBALL E) BADMINTON
1. REFER TO SPECIFICATION FOR GYM GRAPHIC ALLOWANCE.

PLAN LEGEND
VFS - VOLLEYBALL FLOOR SOCKET
BFS - BADMINTON FLOOR SOCKET
⊕ - DENOTES CENTERLINE
- - - DASHED LINE INDICATES COURT LINE SHOULD BE OMITTED IF COINCIDENT WITH COURT LINE OF HIGHER PRIORITY

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ARCHITECTS

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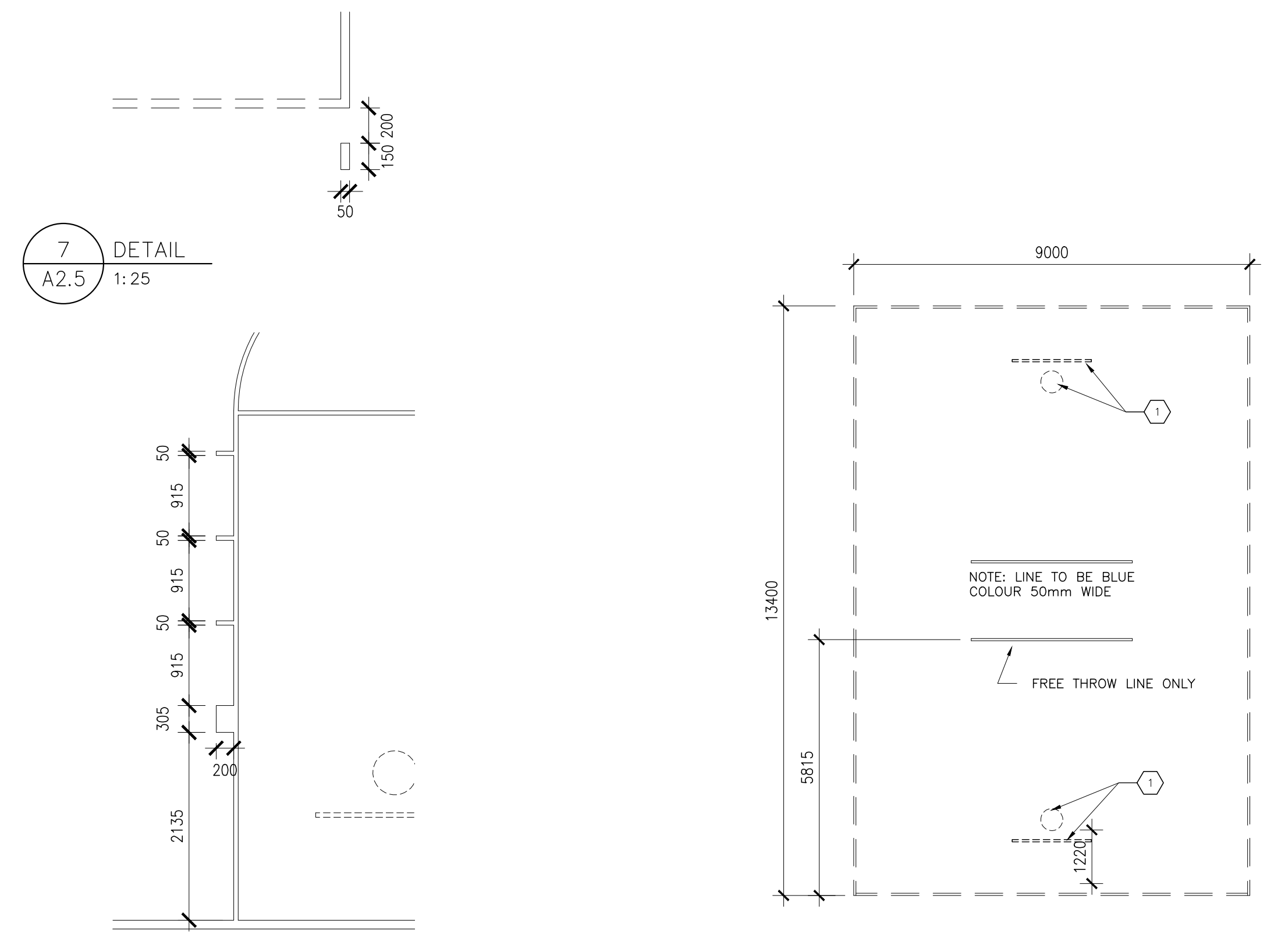
No.	Date	Remarks
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Elementary School**
25 Erindale Ave.
Hamilton, Ontario L8N 3L1

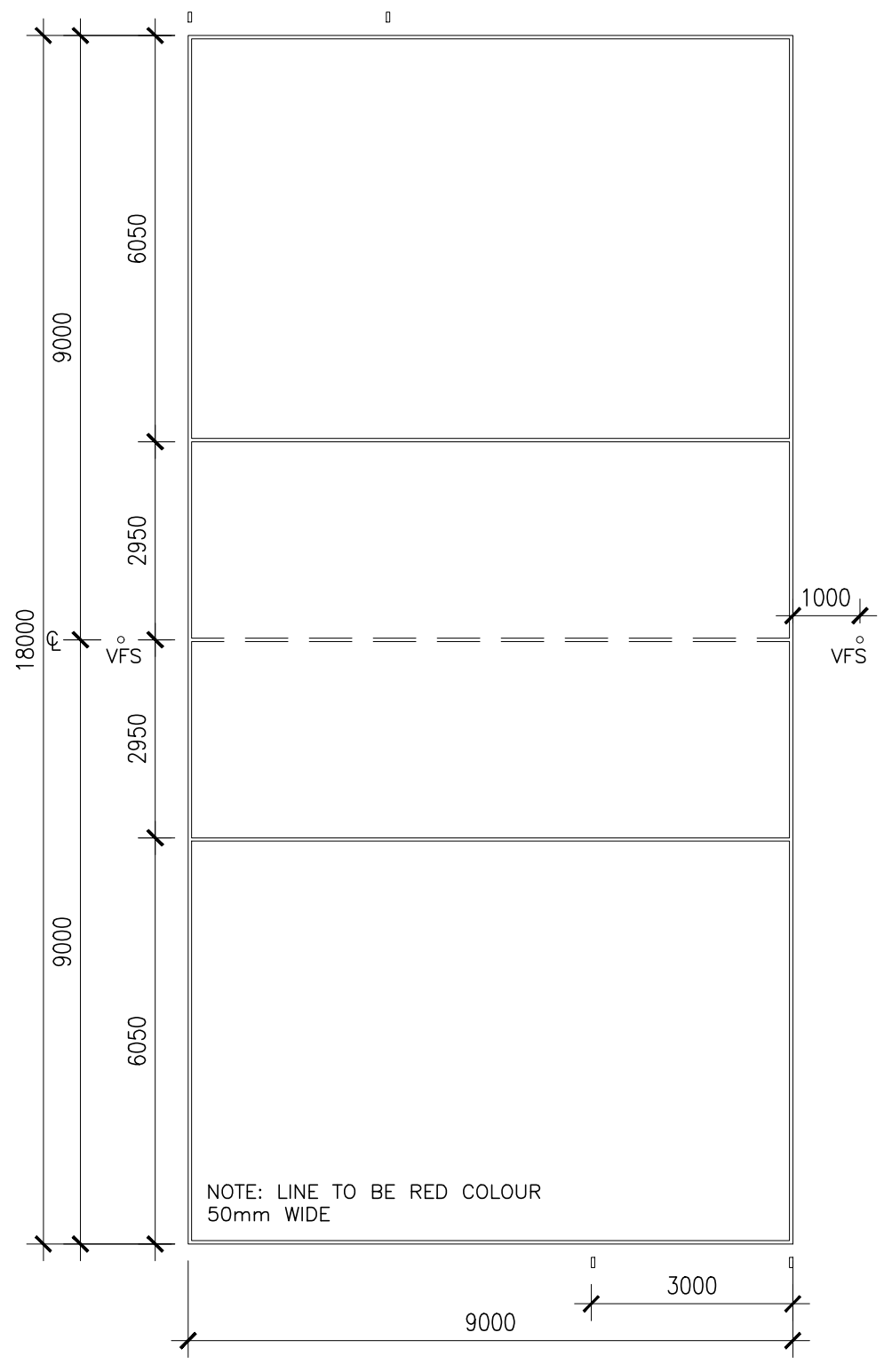
Dwg. Title:
**Gymnasium
Game Lines**

Drwn: Chkd: WJC
Proj. No.: 23011
Scale: As noted
Date: 01/31/24

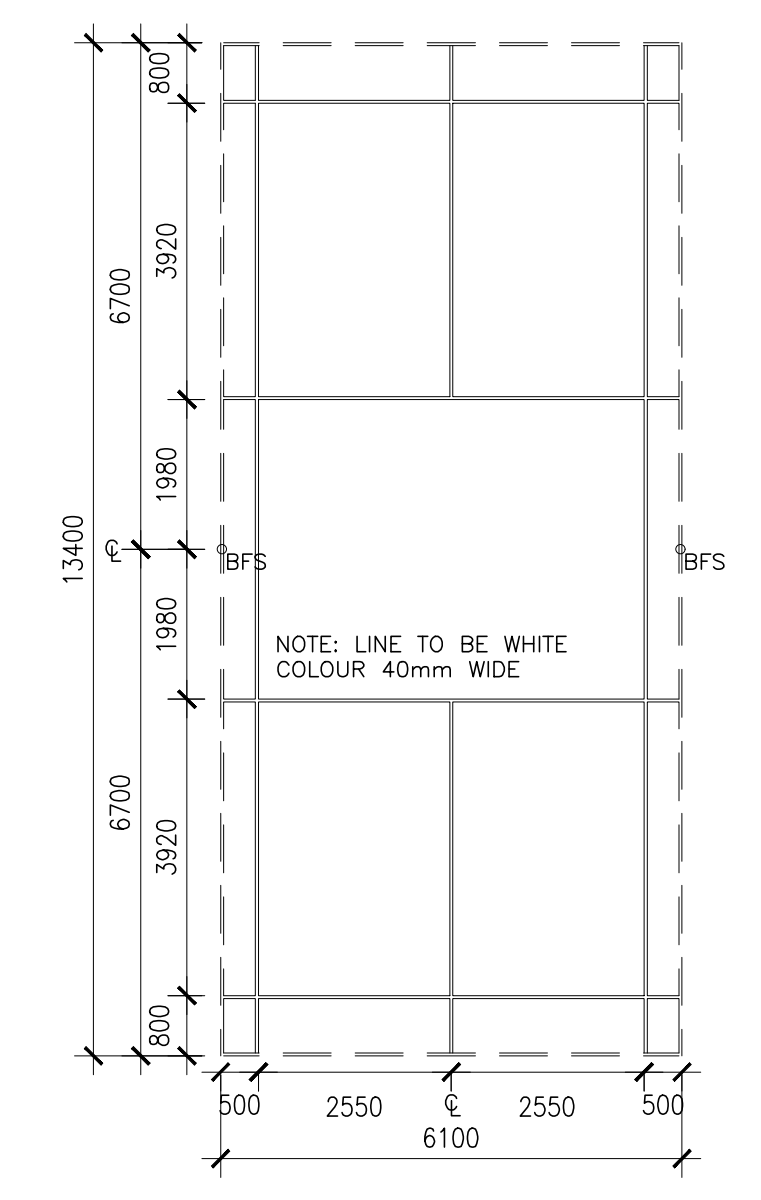
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A2.5



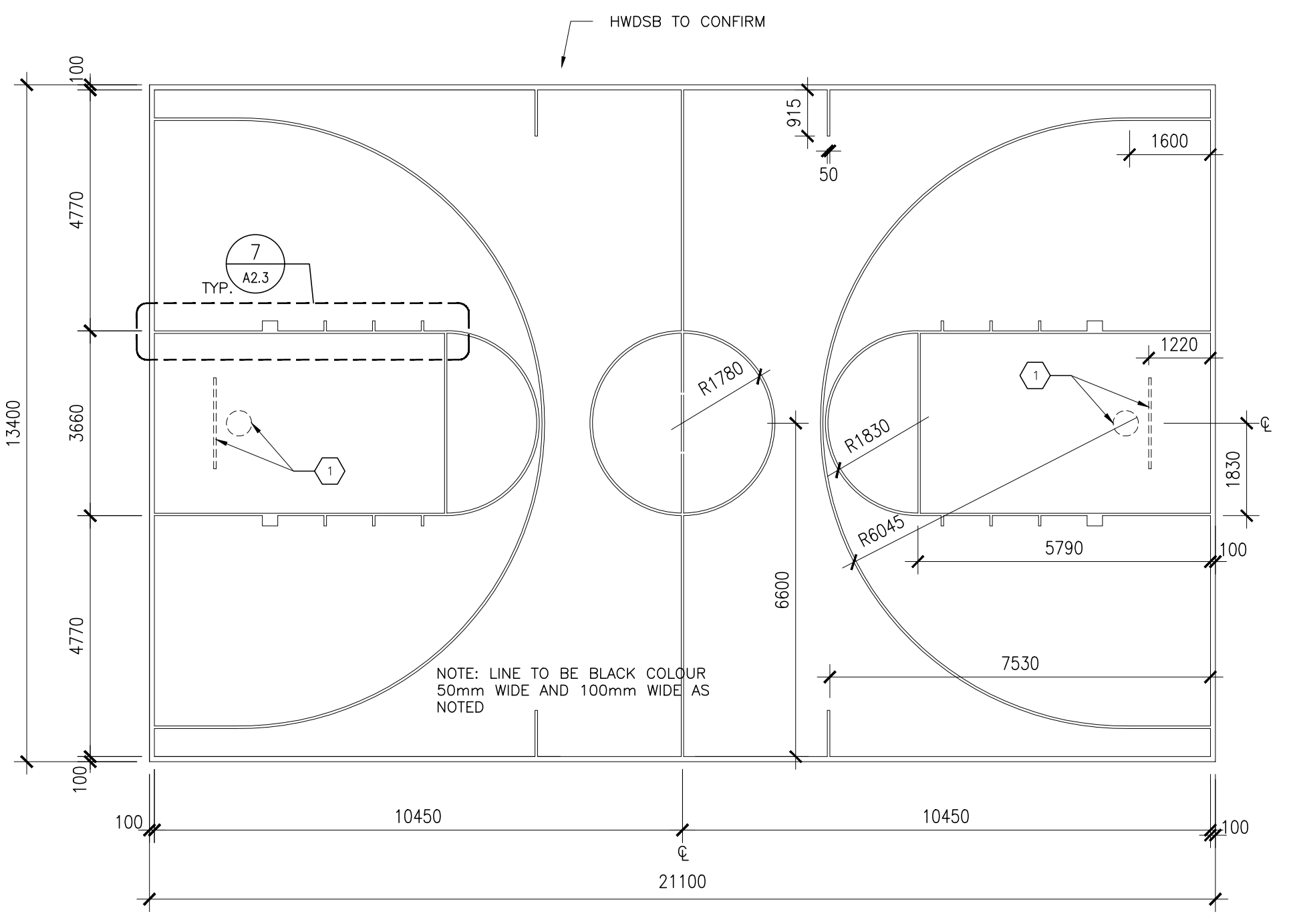
6 KEY LINES @ MAIN BASKETBALL
A2.5 1:50



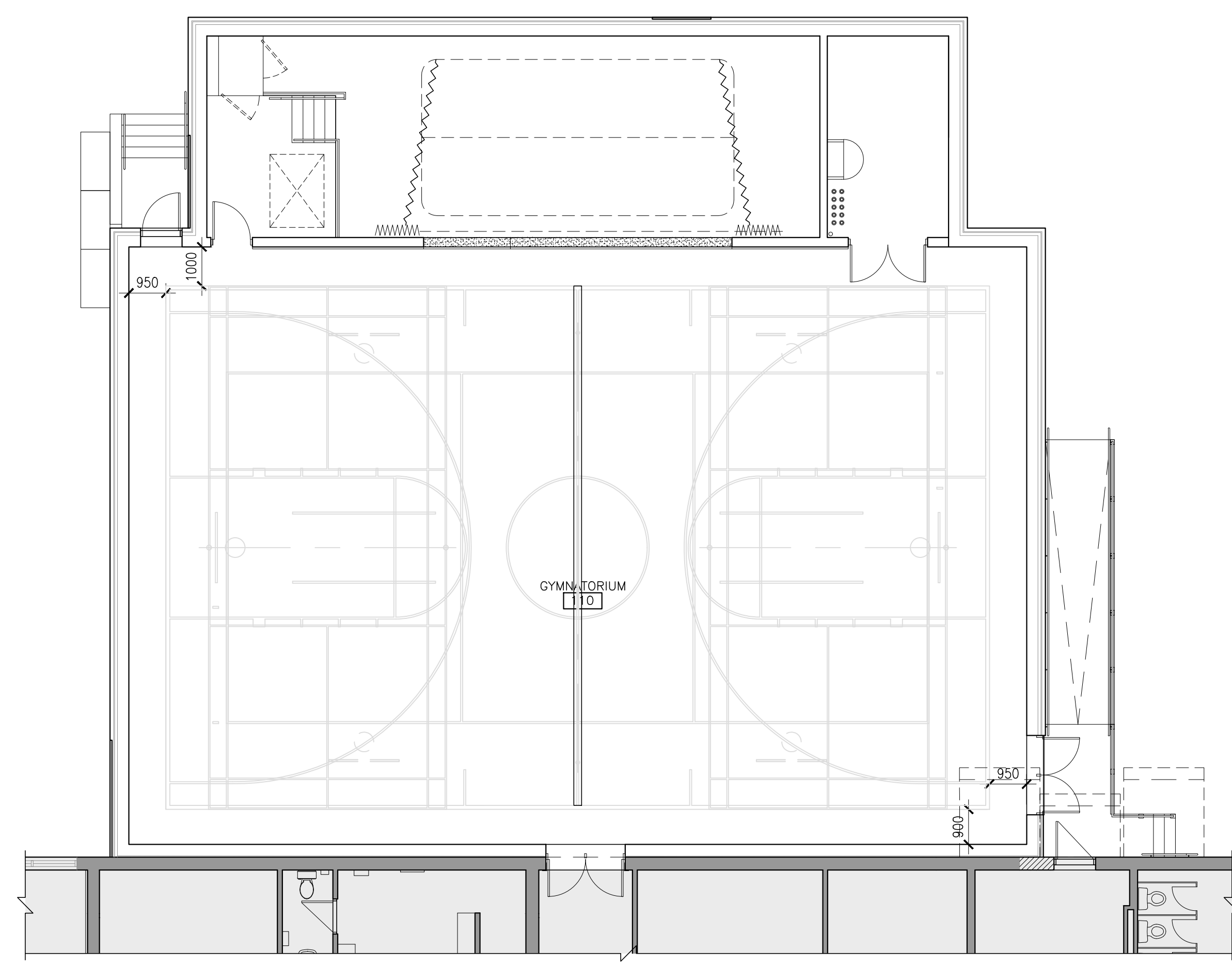
4 MAIN VOLLEY BALL (1 COURT)
A2.5 1:100



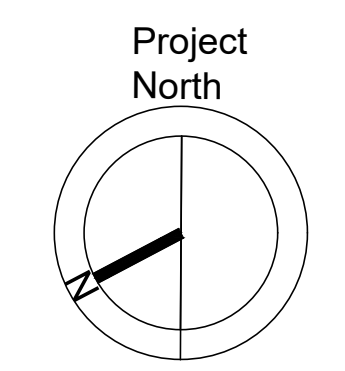
3 BADMINTON (2 COURTS)
A2.5 1:100

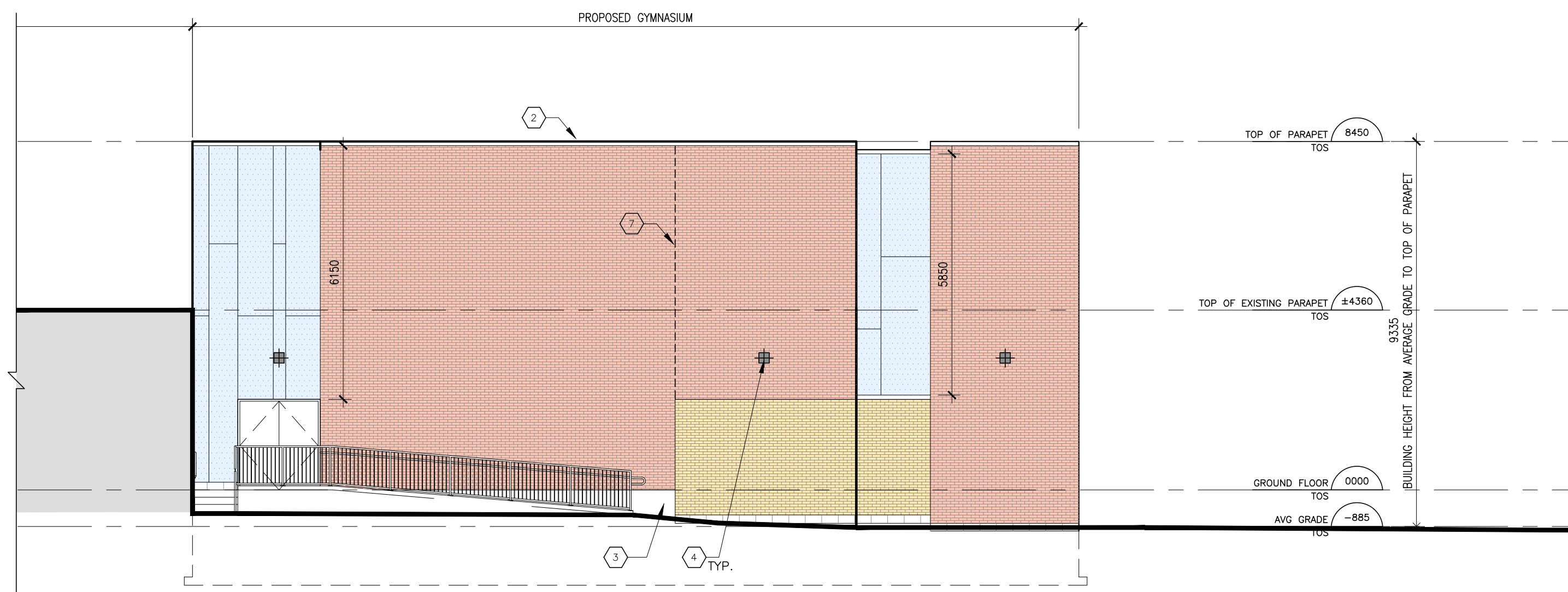


2 MAIN BASKETBALL (1 COURT)
A2.5 1:100

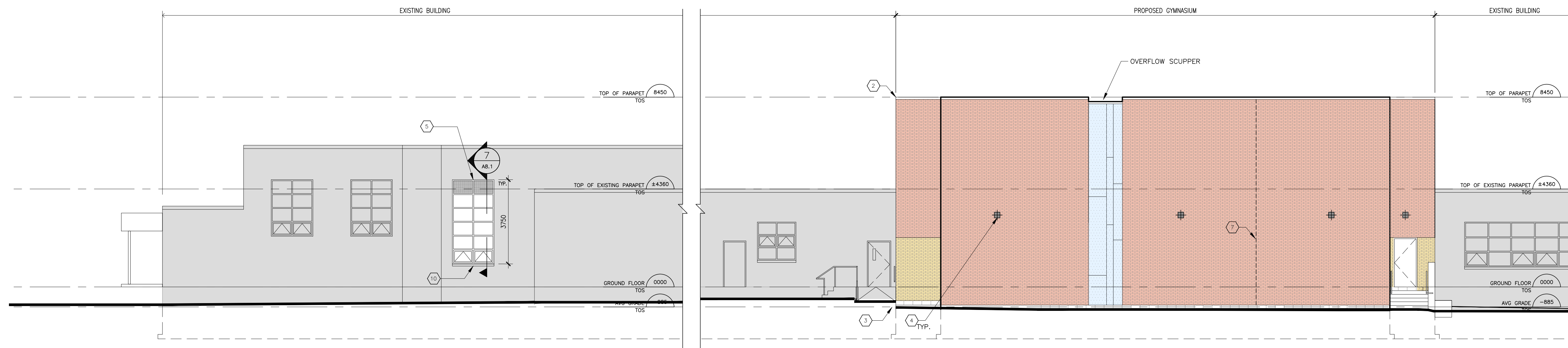


1 GROUND FLOOR PLAN - GAME LINE REFERENCE
A2.5 1:100

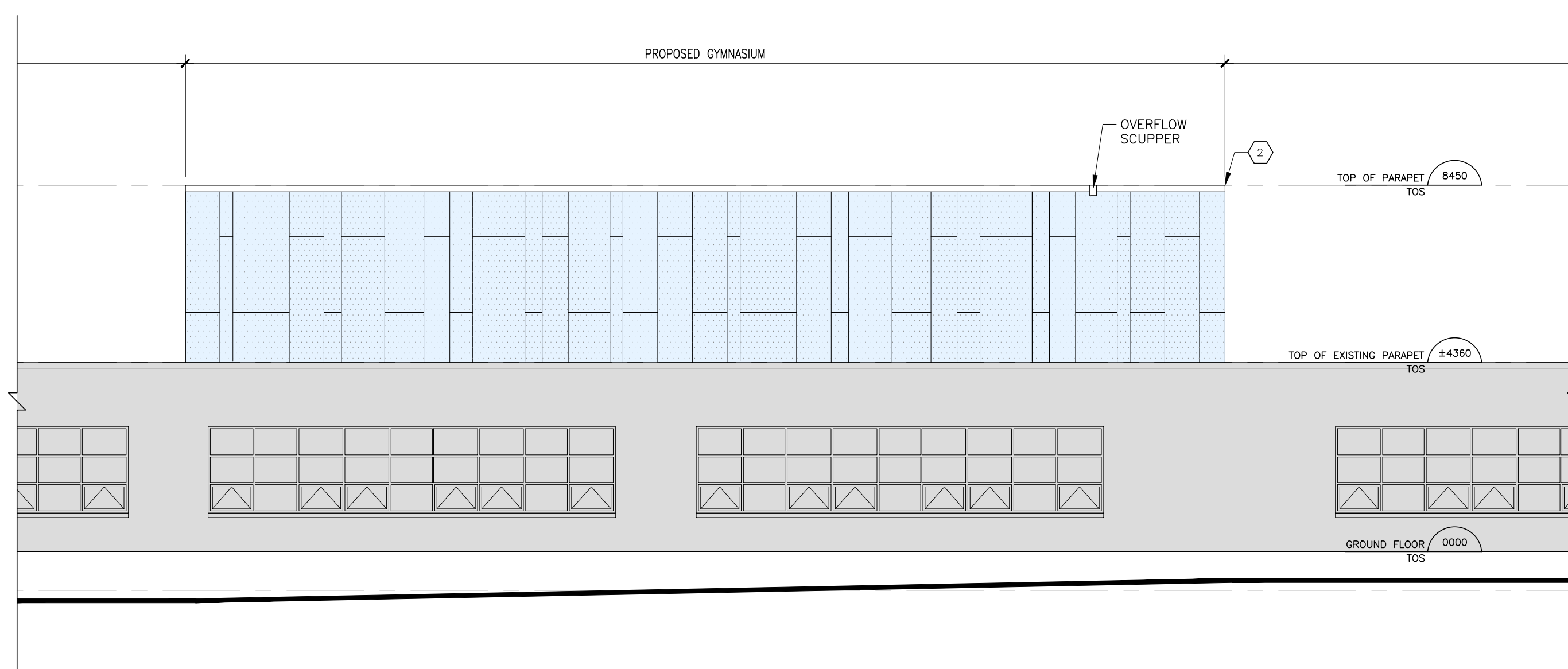




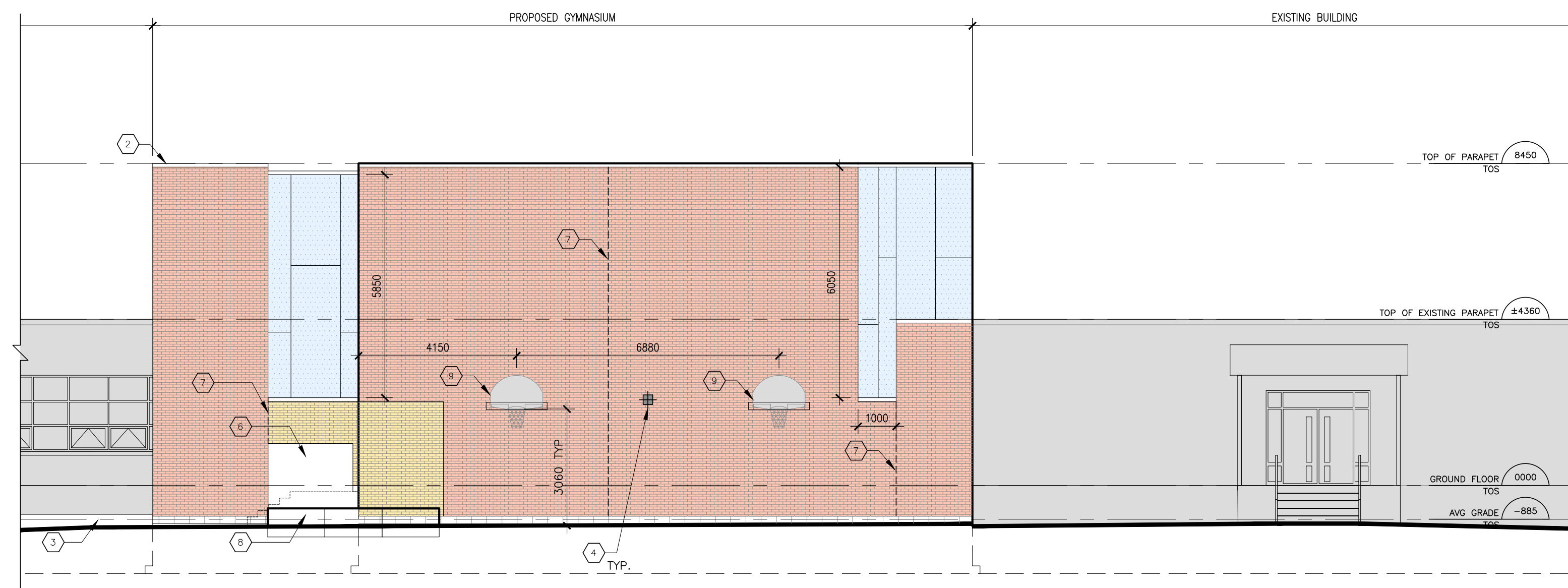
4 SOUTH ELEVATION
A4.1 1:100



3 EAST ELEVATION
A4.1 1:100



2 WEST ELEVATION
A4.1 1:100



1 NORTH ELEVATION
A4.1 1:100

- KEYNOTES**
- NOTE: ALL KEYNOTES MAY NOT BE USED
- ① RETAINING CONCRETE BLOCKS. REFER TO LANDSCAPE
 - ② PREFINISHED METAL FLASHING COLOUR: CHARCOAL
 - ③ POURED CONCRETE FOUNDATION - SEE STRUCTURAL
 - ④ EXTERIOR LIGHT FIXTURE - MOUNTED AT 3200 A.F.F.
 - ⑤ NEW ENLARGED WINDOW
 - ⑥ POURED CONCRETE WALL
 - ⑦ MASONRY CONTROL JOINT
 - ⑧ CONCRETE RETAINING BLOCK
 - ⑨ WALL MOUNTED OUTDOOR BASKETBALL BACKBOARD C/W GOAL & NET ANCHORED C/W HILTI HIT-HY 70 HYBRID ADHESIVE EPOXY ANCHORS
 - ⑩ REMOVE AND REINSTALL EX. STONE SILL. PATCH THE ADJACENT SURFACES.

- NOTES**
1. ALL WINDOW AND DOOR FRAMES TO BE CLEAR ANODIZED
 2. ALL EAVES, FASCIA, AND MISCELLANEOUS METAL TO BE CHARCOAL COLOUR

- LEGEND**
- BRICK MASONRY - COLOUR 1
 - BRICK MASONRY - COLOUR 2
 - PREFINISHED ACM PANEL

CURRAN | GACESA | SLOTE
 ARCHITECTS
 TEL: 905-297-0863
 118 JAMES ST. NORTH, SUITE 301, HAMILTON, ONTARIO L8N 2K7

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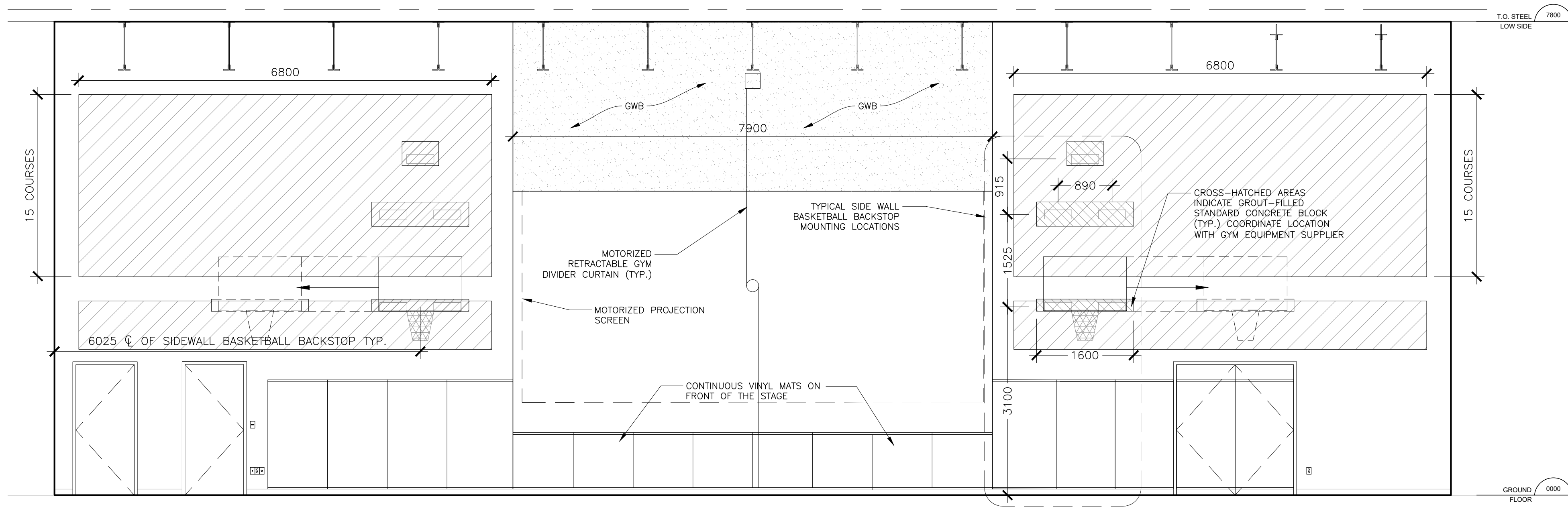
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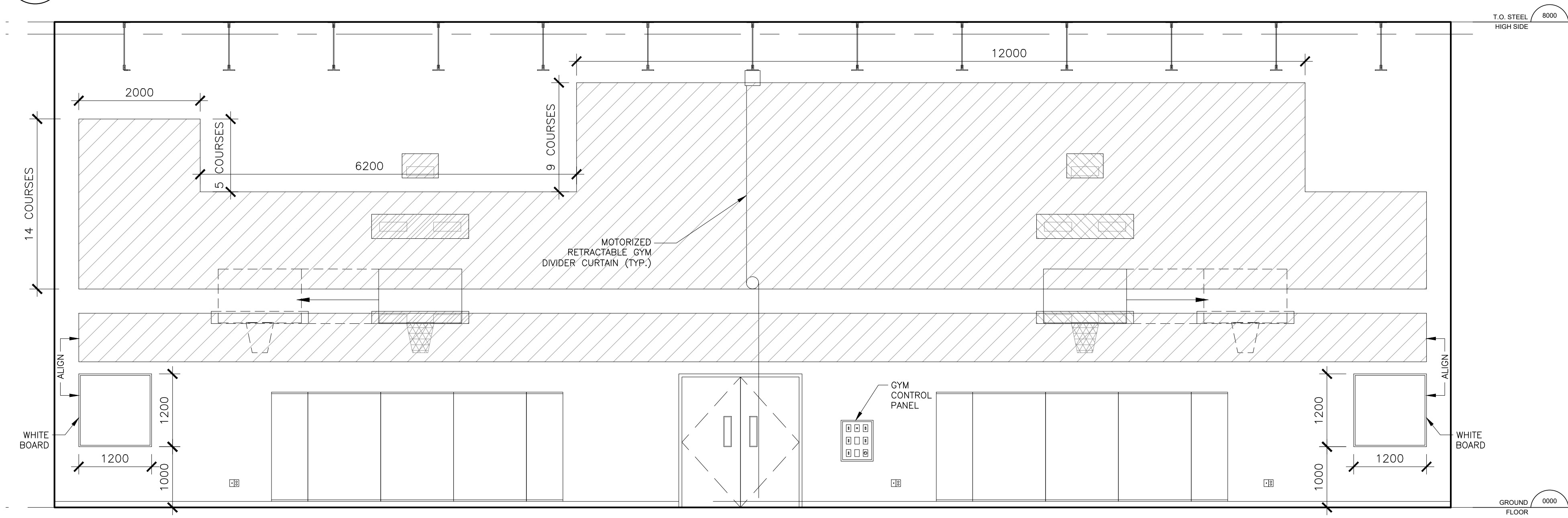
Dwg. Title:
Building Elevations

Drwn: Chkd: WJC
 Proj. No.: 23011
 Scale: As noted
 Date: 01/31/24

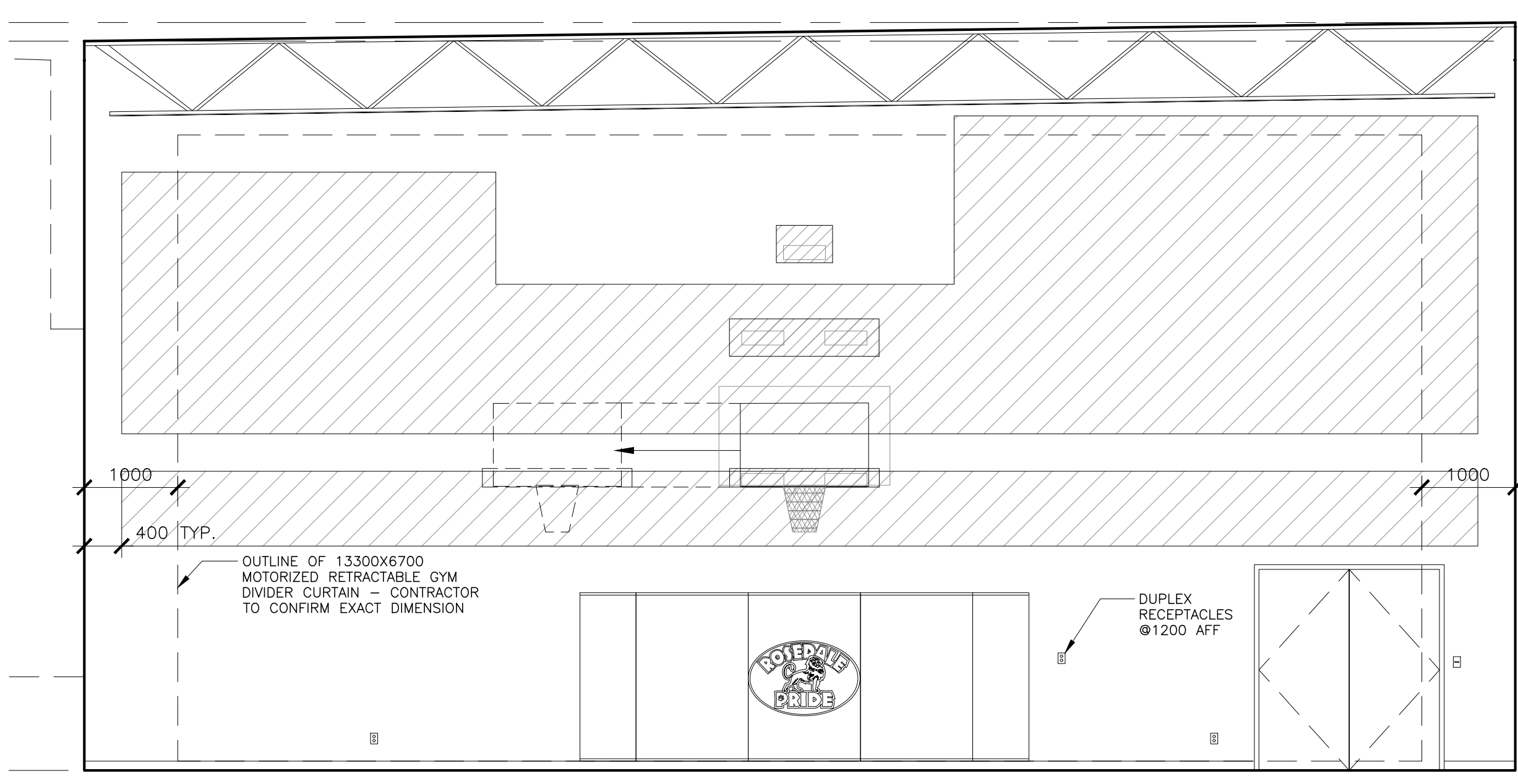
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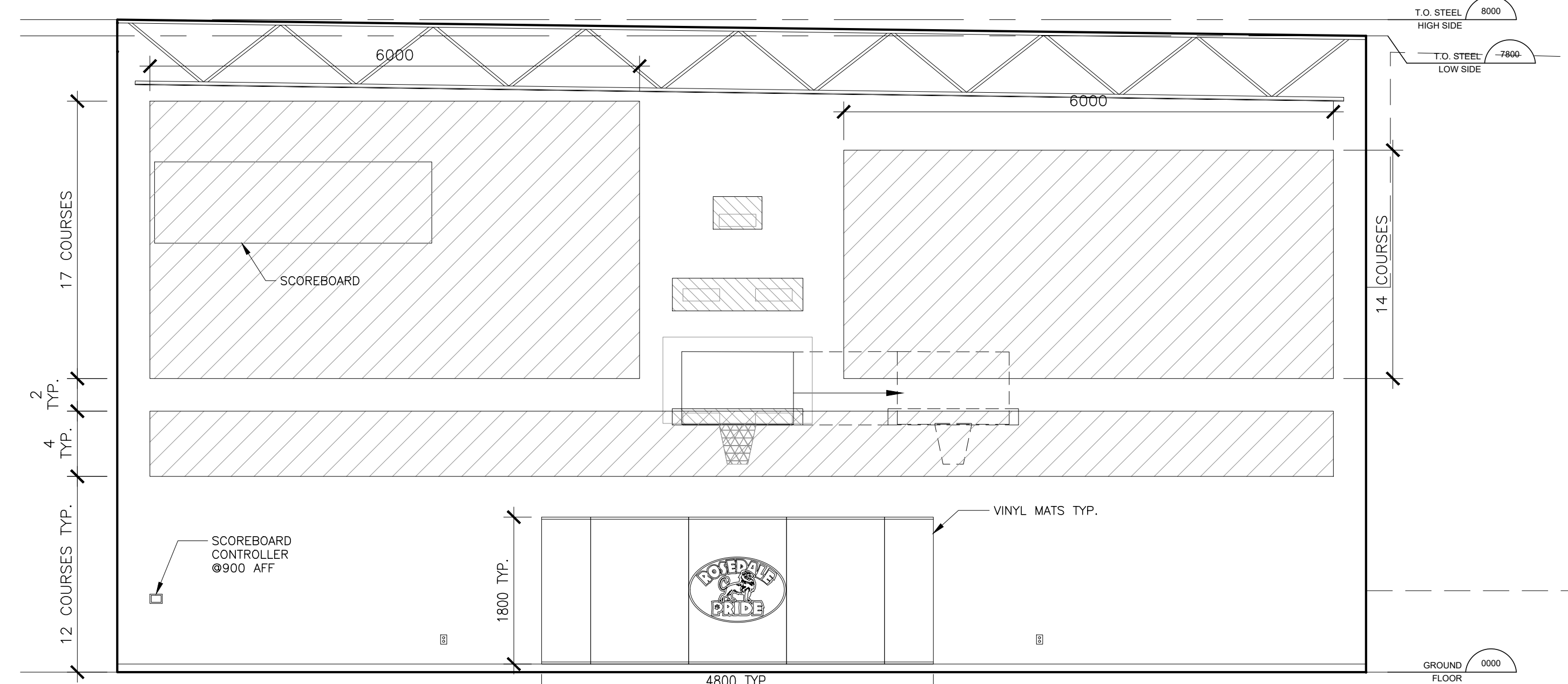
4 ELEVATION
A5.1 1:50



3 ELEVATION
A5.1 1:50



2 ELEVATION
A5.1 1:50



1 ELEVATION
A5.1 1:50

LEGEND

- ACOUSTIC BLOCKS (200x400)
- DUPLEX RECEPTACLE @340 AFF, UNO
- DATA JACK @340 AFF, UNO
- MICROPHONE OUTLET @340 AFF, UNO
- MANUAL PULLSTATION @1100 AFF

GENERAL NOTE

1. ALL BASKETBALL BACKBOARDS TO BE RECTANGLE GLASS MOUNTED ON SWING TO SIDE FRAMING.

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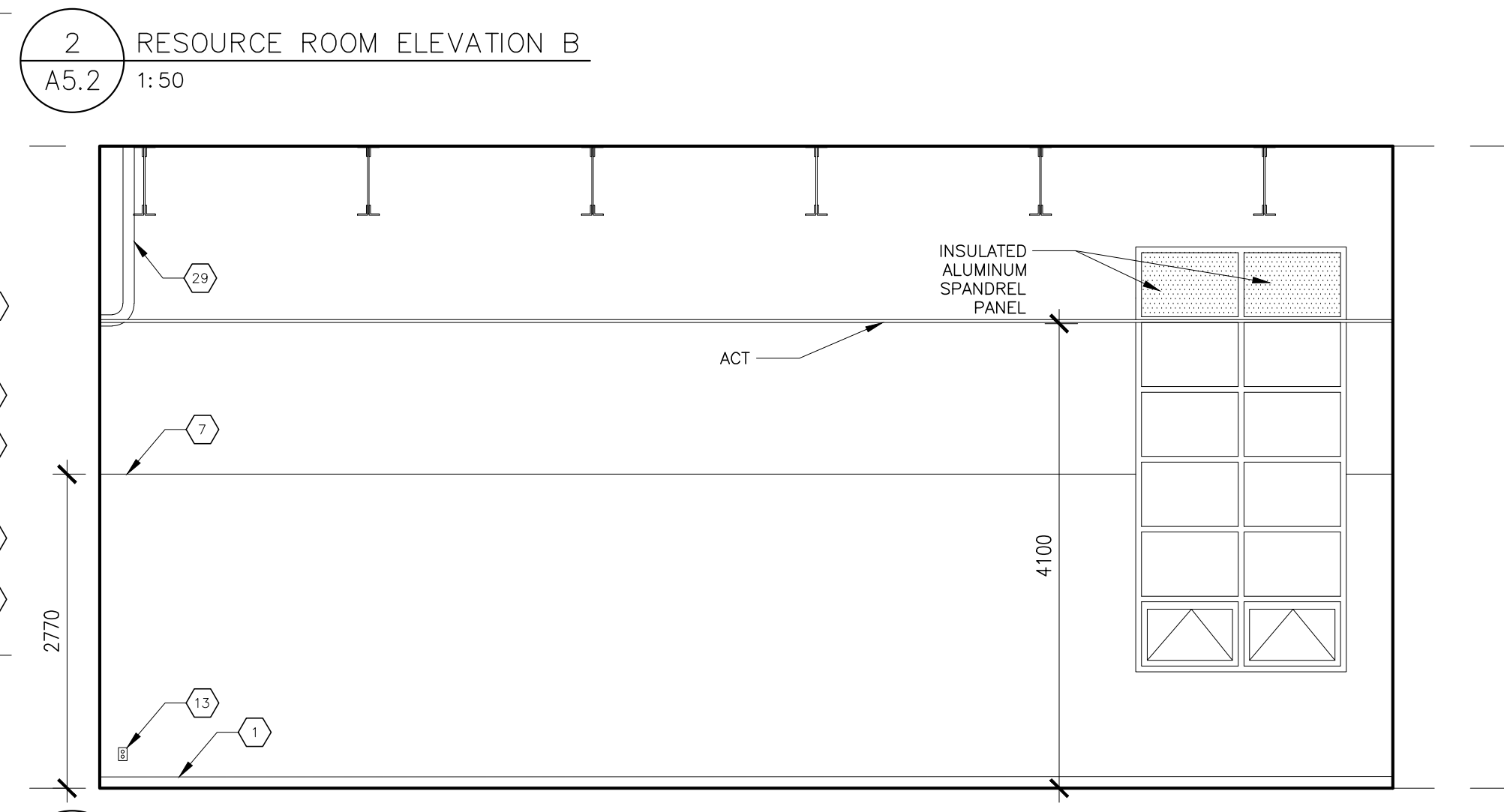
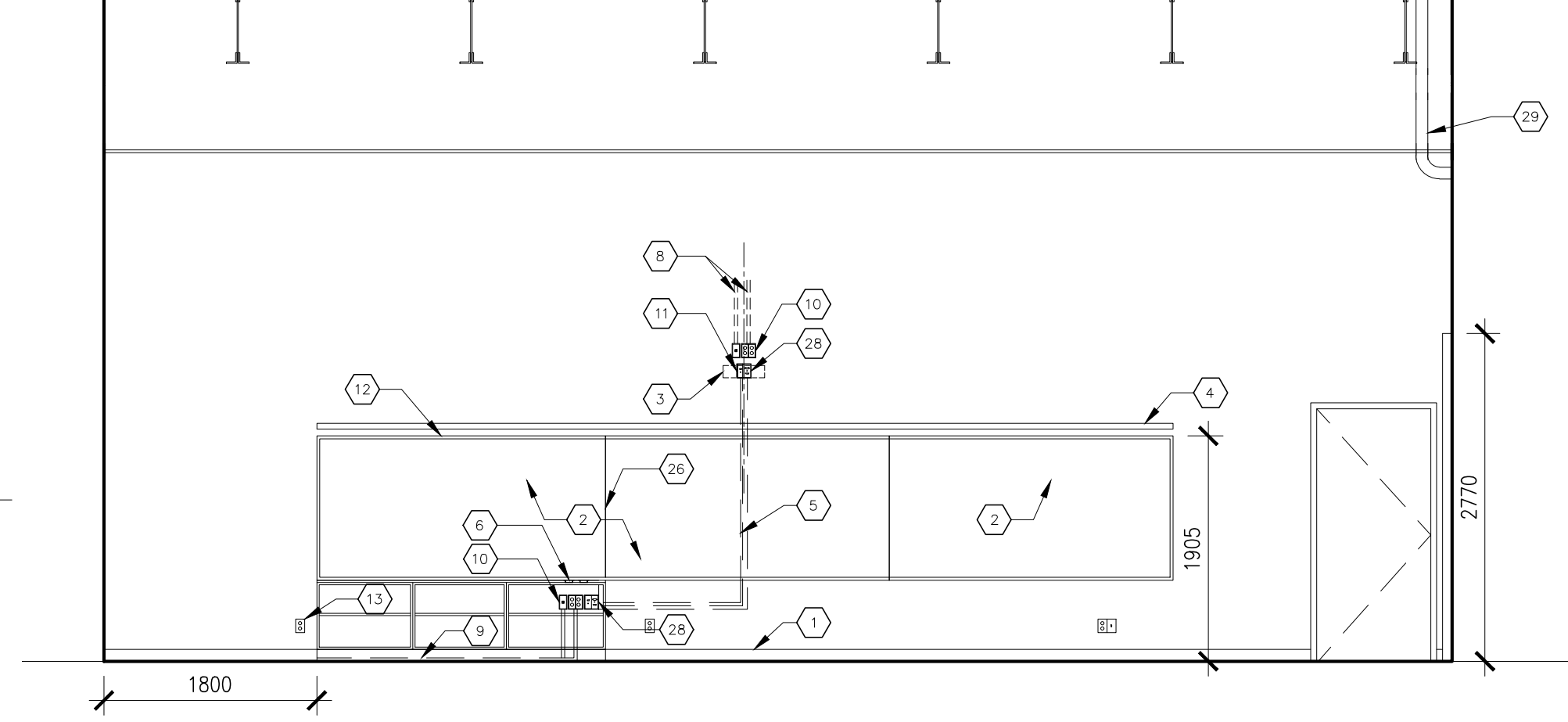
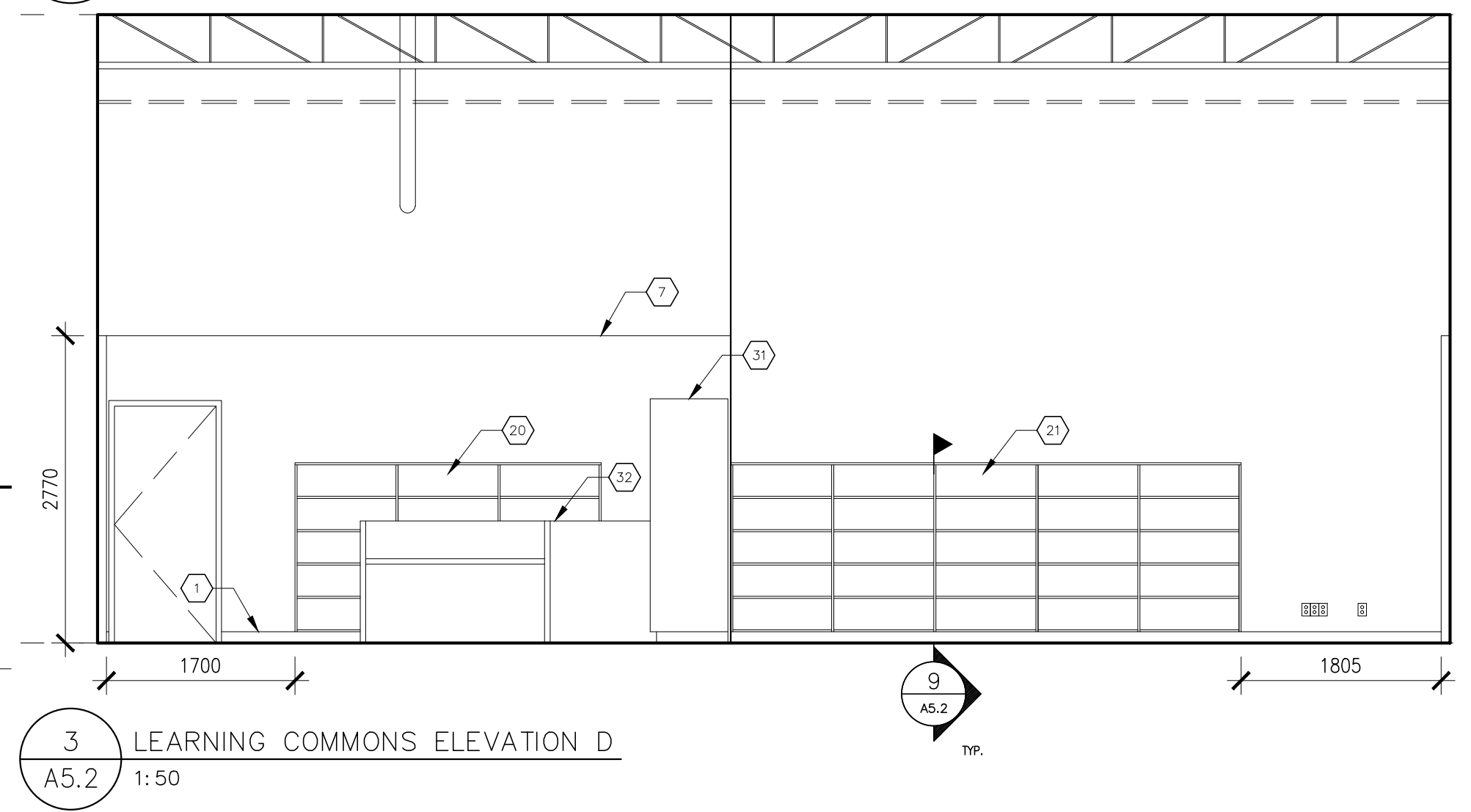
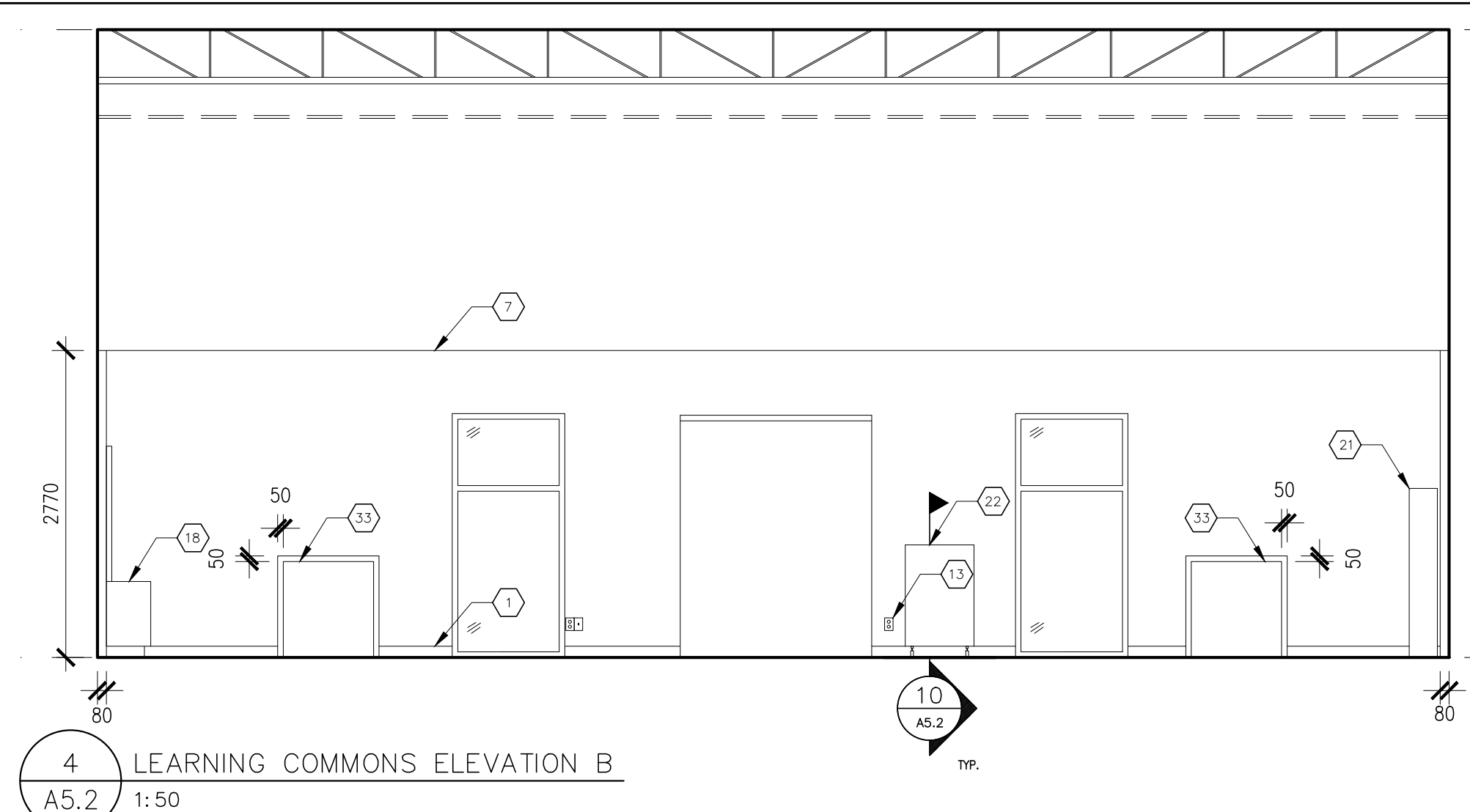
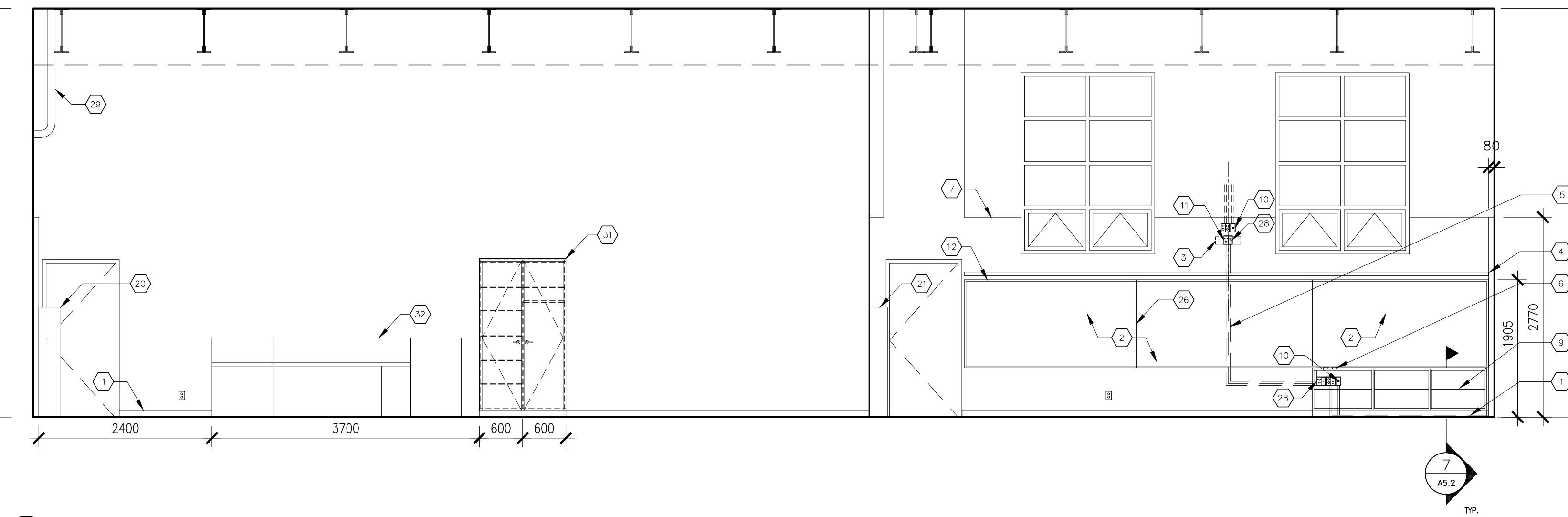
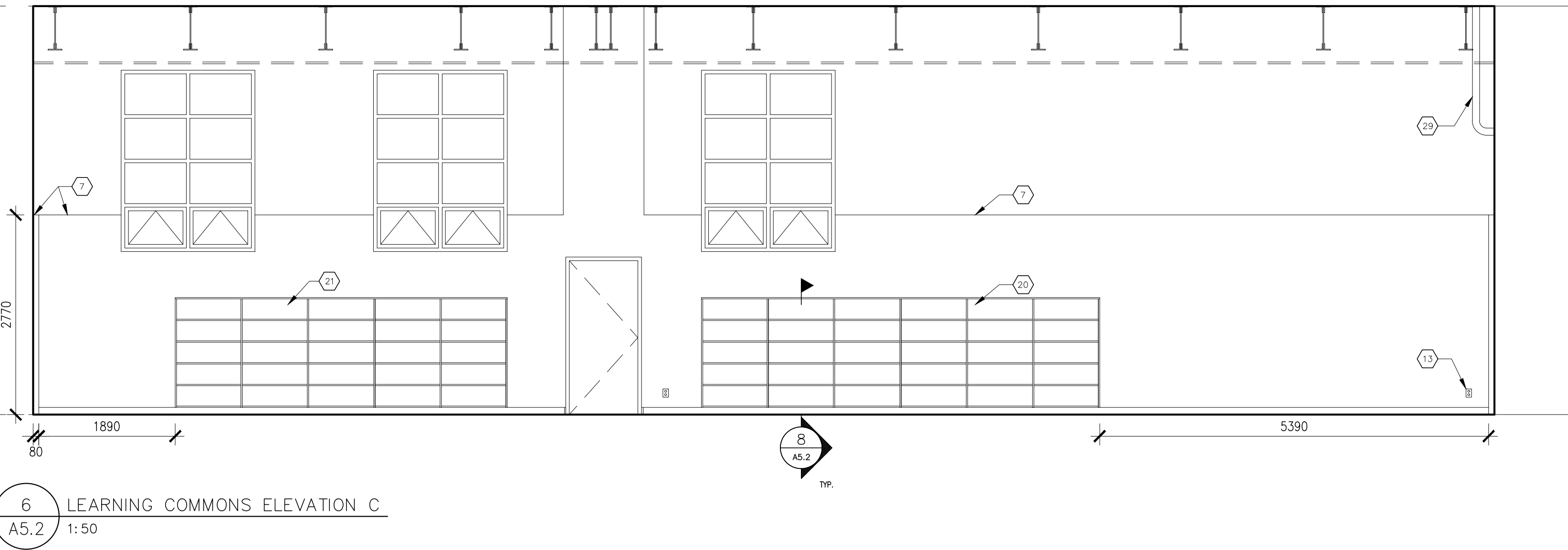
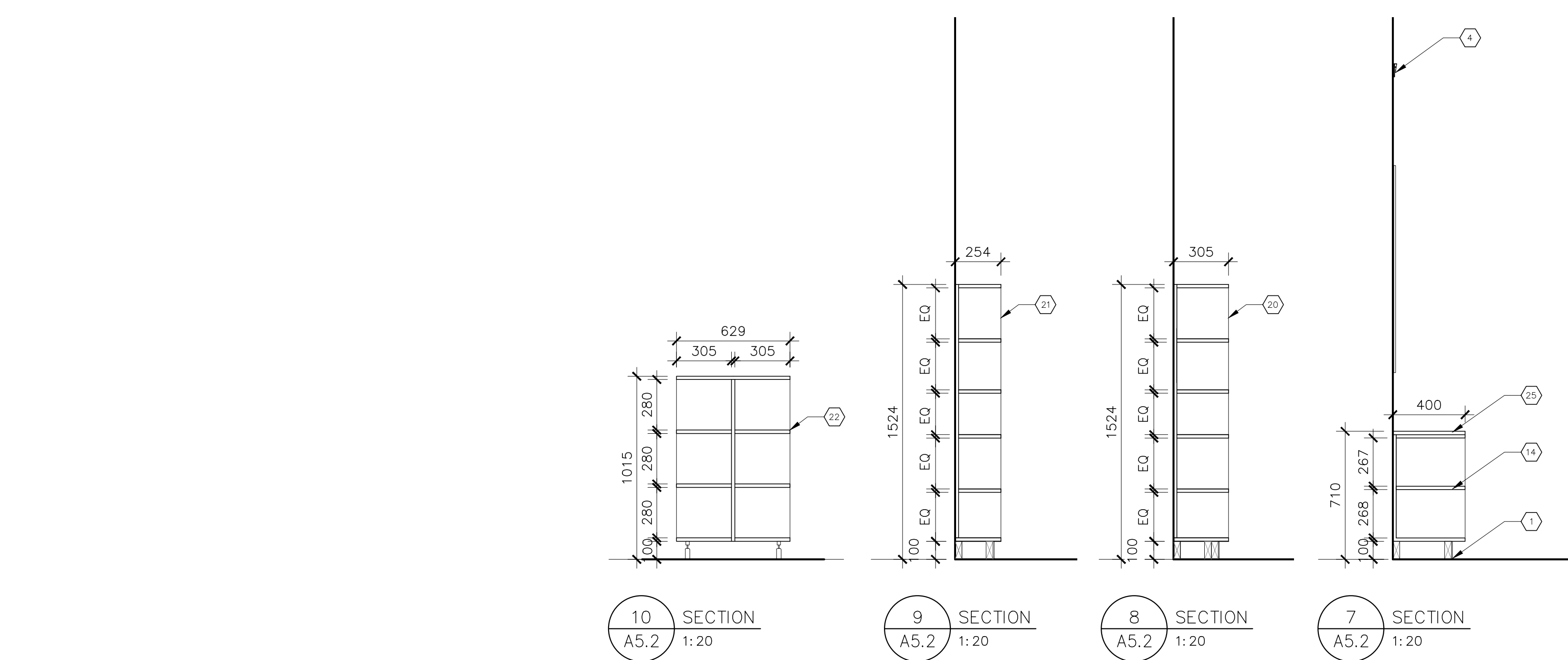
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Dwg. Title:
Interior Elevations

Drwn: Chkd: WJC
 Proj. No.: 23011
 Scale: As noted
 Date: 01/31/24

Drawing No.:
A5.1



- KEYNOTES**
- NOTE: ALL KEYNOTES MAY NOT BE USED
- 1 100 RUBBER BASE
 - 2 1220x2440 WHITEBOARD c/w MARKER TRAY, TOP OF WHITEBOARDS AT 1905 A.F.F.L.
 - 3 SHORT THROW PROJECTOR (SUPPLIED BY CLIENT, INSTALLED BY CONTRACTOR)
 - 4 CONTINUOUS TACK STRIP (MAP RAIL)
 - 5 EMT CONDUIT BEHIND FURRING WALL
 - 6 GROMMET 64 # U.N.O.
 - 7 FURRING WALL
 - 8 EMT CONDUIT FOR POWER & DATA
 - 9 EMT CONDUIT BEHIND MILLWORK KICK
 - 10 DATA (2) USED (2) BLANK, POWER QUAD RECEPTACLE
 - 11 HDMI, USB, VGA & 3.5MM AUDIO PORTS
 - 12 EDGE BAND
 - 13 DUPLEX RECEPTACLE TYP. (SEE ELEC.) @300 AFF, UNO.
 - 14 19 MELAMINE FIXED SHELF
 - 15 19 MELAMINE ADJUSTABLE SHELVES ON RECESSED PILASTER STRIPS
 - 16 19 PLYWOOD c/w WOOD VENEER FINISH ON ALL EXPOSED SURFACES AND EDGES
 - 17 RESERVED
 - 18 NEW MILLWORK SHELVES SEE 7/A5.2
 - 19 METAL PULL
 - 20 NEW MILLWORK NON-FICTION (SNF) SEE A2.2 NEW SHELVING LEGEND
 - 21 NEW MILLWORK FICTION (SF) SEE A2.2 NEW SHELVING LEGEND
 - 22 NEW MILLWORK EASY/PICTURE BOOKS (4EASY) SEE A2.2 NEW SHELVING LEGEND
 - 23 RESERVED
 - 24 LIGHT SWITCH
 - 25 TWO (2) LAYERS OF 19 PLYWOOD TOP W/ WOOD VENEER FINISH
 - 26 SPLINE JOINTS
 - 27 WIREMOLD TO HAVE HDMI, USB, VGA, & 3.5MM AUDIO CABLES
 - 28 RESERVED
 - 29 PIPE TO BE RECOVERED IN PVC
 - 30 N.I.C.
 - 31 TEACHERS CLOSET
 - 32 CIRCULATION DESK
 - 33 EXISTING RADIATOR
 - 34 DATA RECEPTACLE @300 AFF, UNO

- GENERAL NOTES**
1. PATCH AND MAKE GOOD ALL SURFACES.
 2. PAINT ALL WALL SURFACES U.N.O. COLOUR SELECTION BY CONSULTANT.
 3. ALL MELAMINE TO BE GREY COLOUR.
 4. ALL GABLE ENDS NOT ABUTTING A WALL ARE TO BE FINISHED.
 5. ALL SHELVING FIXED UNLESS OTHERWISE NOTED. CONTINUOUS ON ALL SURFACES OF CABINETS/SHELVING ABUTTING WALLS.
 7. PROVIDE BLOCKING FOR ALL ITEMS/ACCESSORIES MOUNTED ON STUD AND GYPSUM BOARD WALL ASSEMBLIES.
 8. ALL VISIBLE FASTENERS AT CONNECTION OF MISC. METALS TO FLOOR TO BE STAINLESS STEEL.

MILLWORK MATERIAL (UNO)

DOORS:	P-LAM
BOX FRAMES (INT.):	19 MELAMINE
BOX FRAMES (EXT.):	P-LAM WHERE VISIBLE, 19 MELAMINE ELSEWHERE
DRAWERS:	13 MELAMINE INTERIOR, P-LAM FRONTS
SHELVES:	P-LAM WHERE VISIBLE, 19 MELAMINE ELSEWHERE
BACKS:	6 MELAMINE ON 13 PLYWOOD STRAPPING
COUNTERTOPS:	P-LAM W/ 38 BULLNOSE EDGE WHERE INDICATED
TRIM:	SOLID PLASTIC EDGEBANDING

KEYNOTES

NOTE: ALL KEYNOTES MAY NOT BE USED

- 1 100 RUBBER BASE
- 2 1220x2440 WHITEBOARD c/w MARKER TRAY, TOP OF WHITEBOARDS AT 1905 A.F.F.L.
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- 32 CIRCULATION DESK
- 33 EXISTING RADIATOR
- 34 DATA RECEPTACLE @300 AFF, UNO

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BOX FRAMES (EXT.):	P-LAM WHERE VISIBLE, 19 MELAMINE ELSEWHERE
DRAWERS:	13 MELAMINE INTERIOR, P-LAM FRONTS
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BACKS:	6 MELAMINE ON 13 PLYWOOD STRAPPING
COUNTERTOPS:	P-LAM W/ 38 BULLNOSE EDGE WHERE INDICATED
TRIM:	SOLID PLASTIC EDGEBANDING

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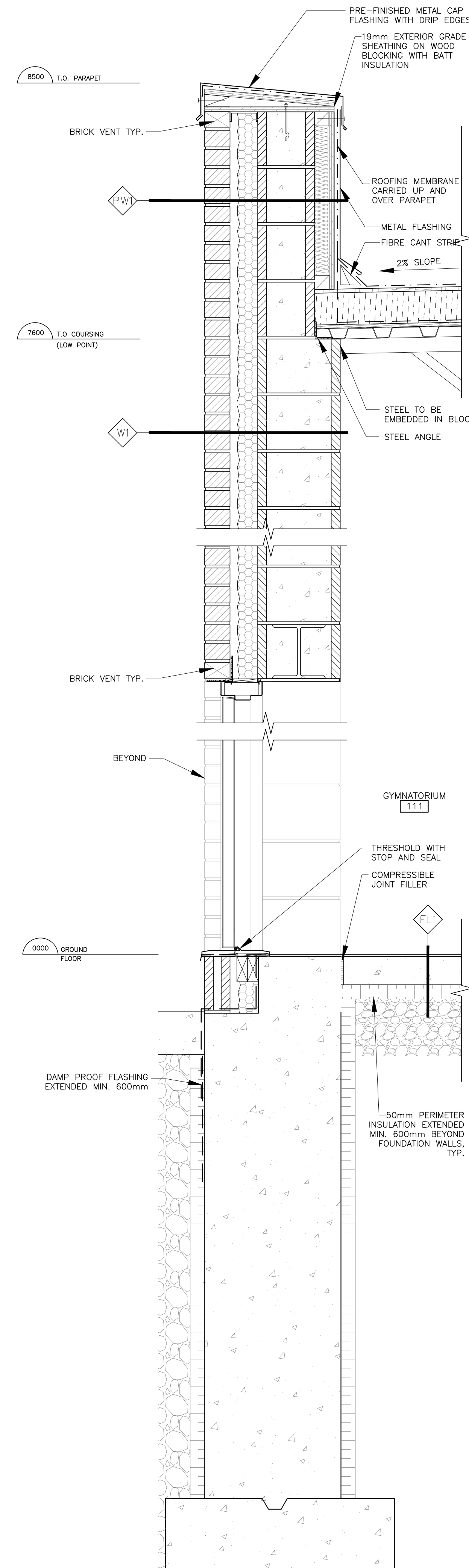
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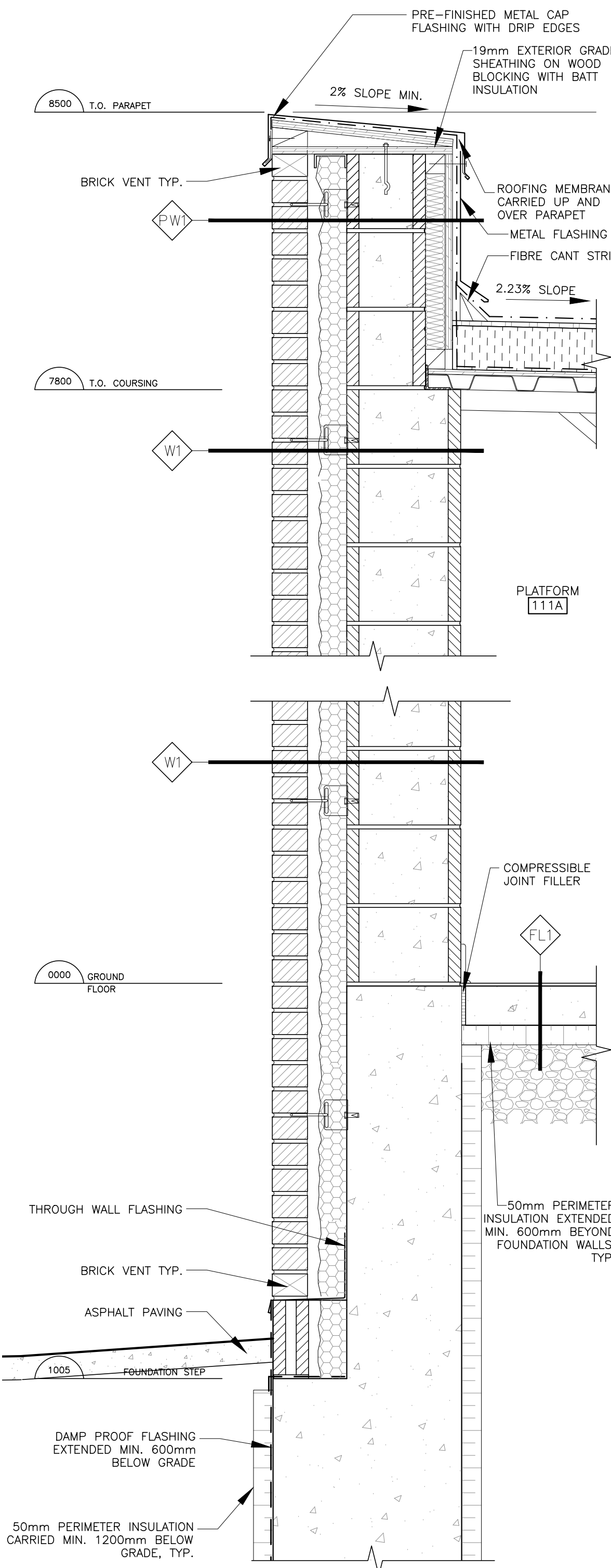
Dwg. Title:
**Interior
Elevations &
Sections**

Drwn: Chkd: WJC
Proj. No.: 23011
Scale: As noted
Date: 01/31/24

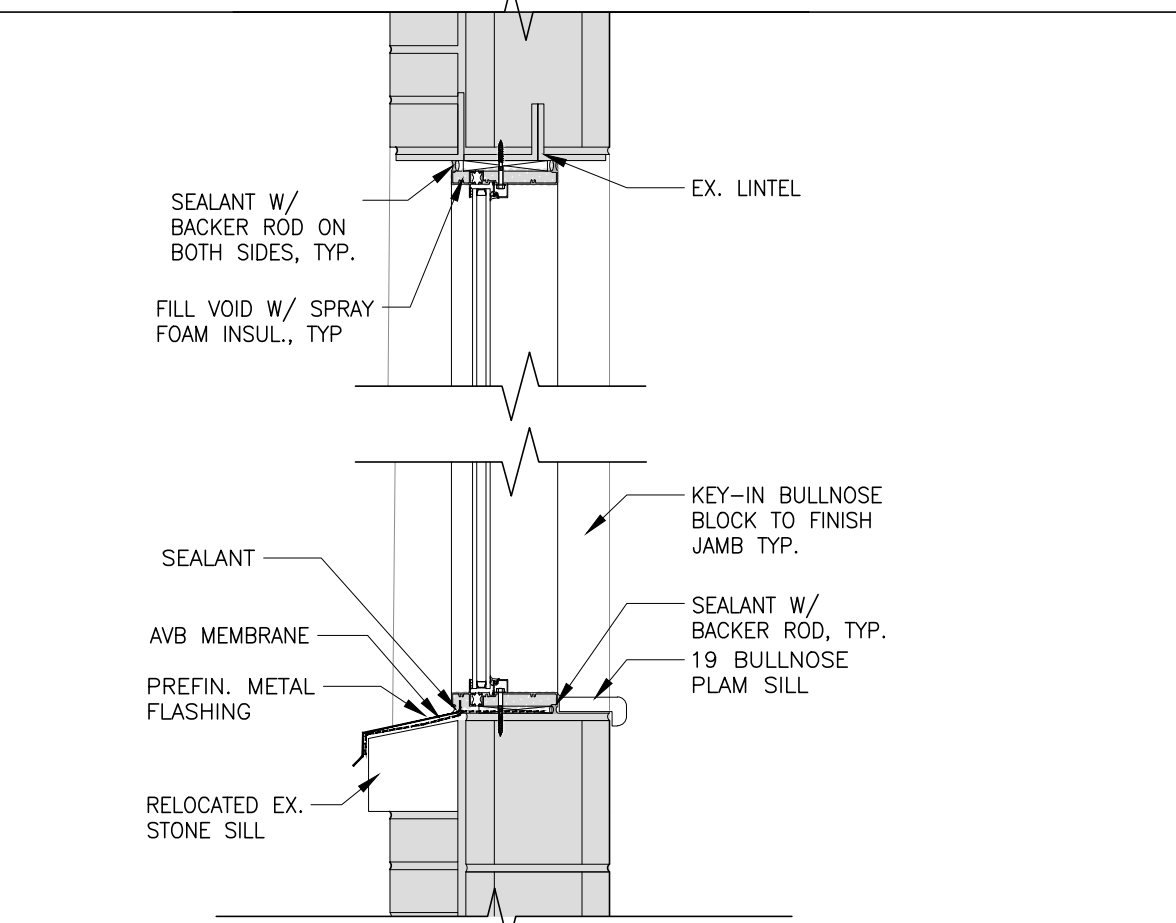
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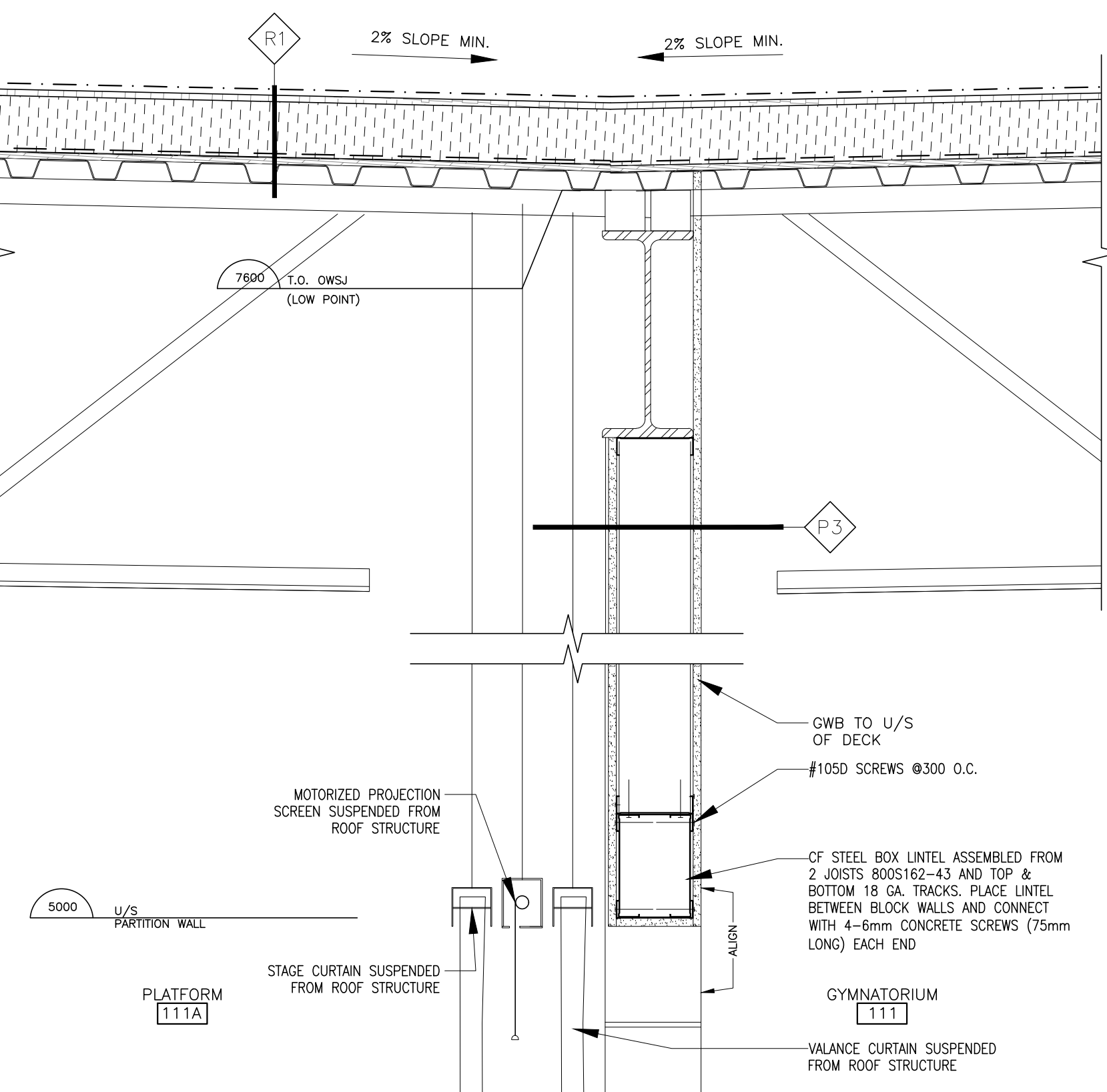
4 SECTION DETAIL
A8.1 1:10



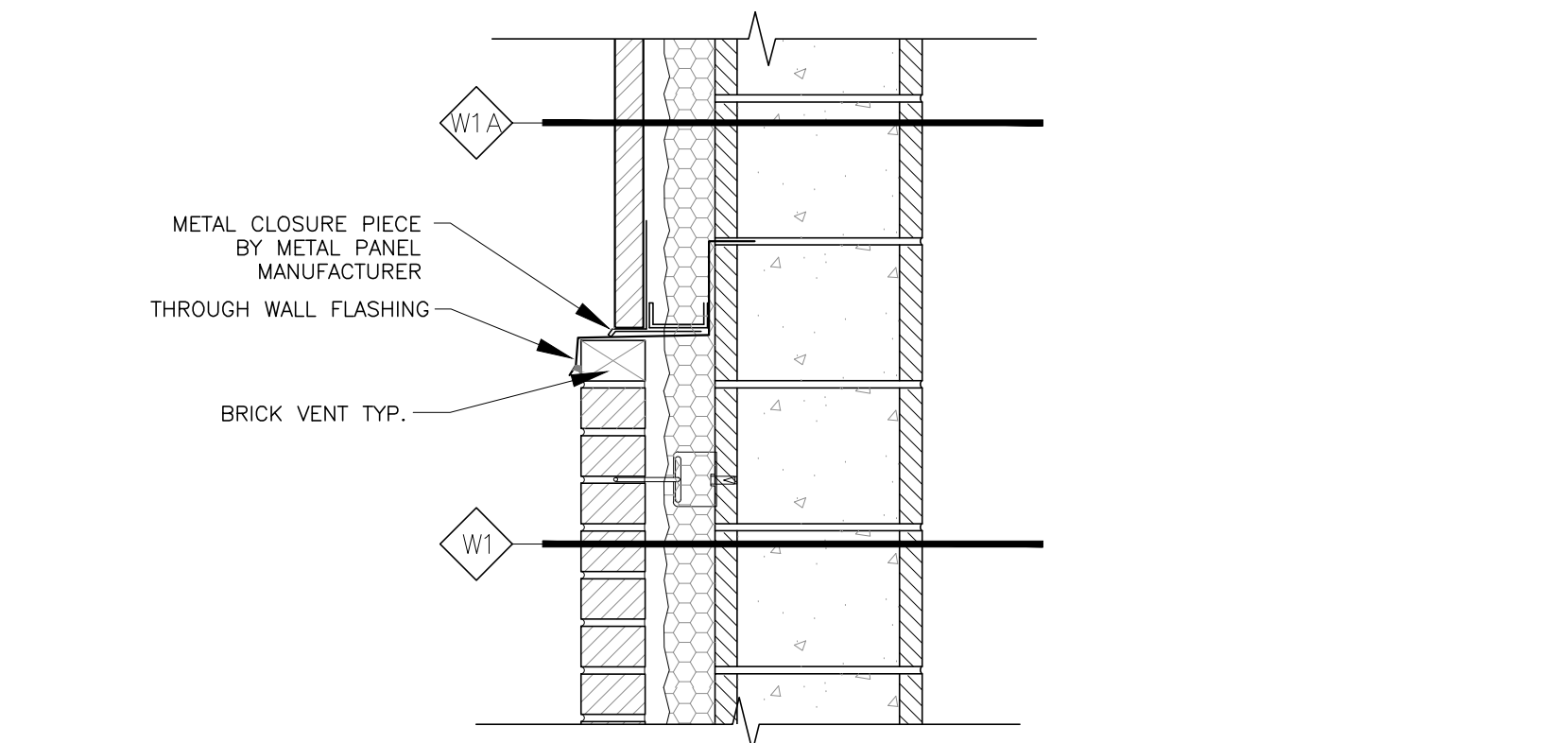
2 SECTION DETAIL @ PLATFORM WALL
A8.1 1:10



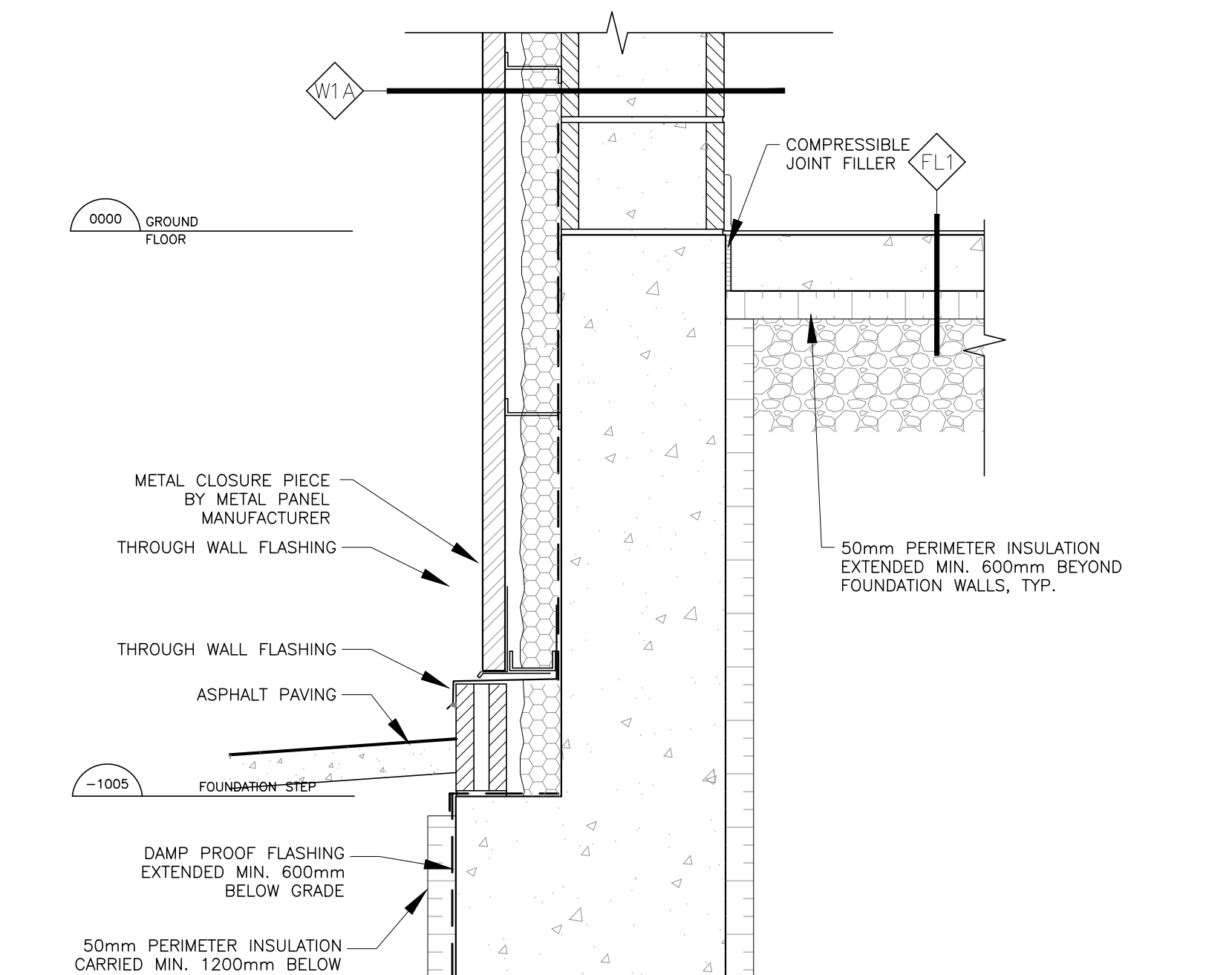
7 SECTION DETAIL AT EXTENDED WINDOW
A8.1 1:10



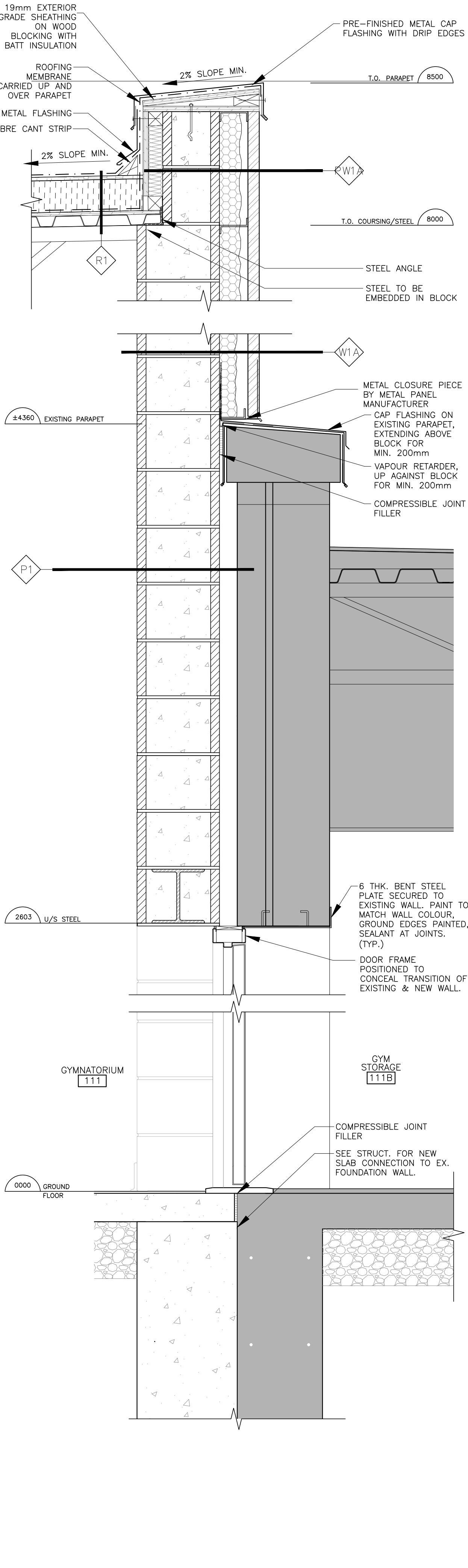
3 SECTION BETWEEN PLATFORM & GYM
A8.1 1:10



6 SECTION DETAIL AT ACM & BRICK TRANSITION
A8.1 1:10



5 SECTION DETAIL WHERE ACM MEETS FOUNDATION WALL
A8.1 1:10



1 SECTION DETAIL
A8.1 1:10

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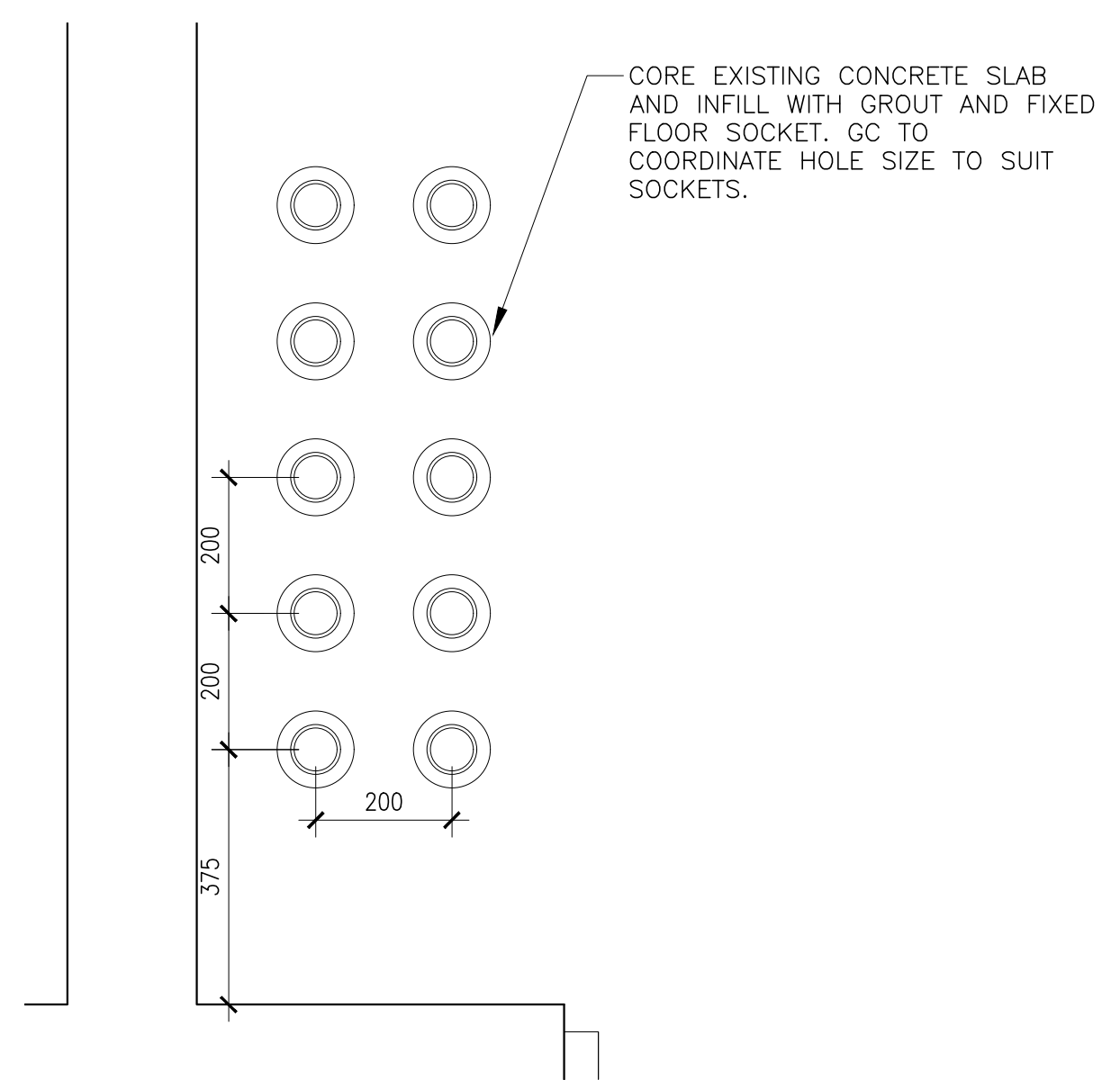
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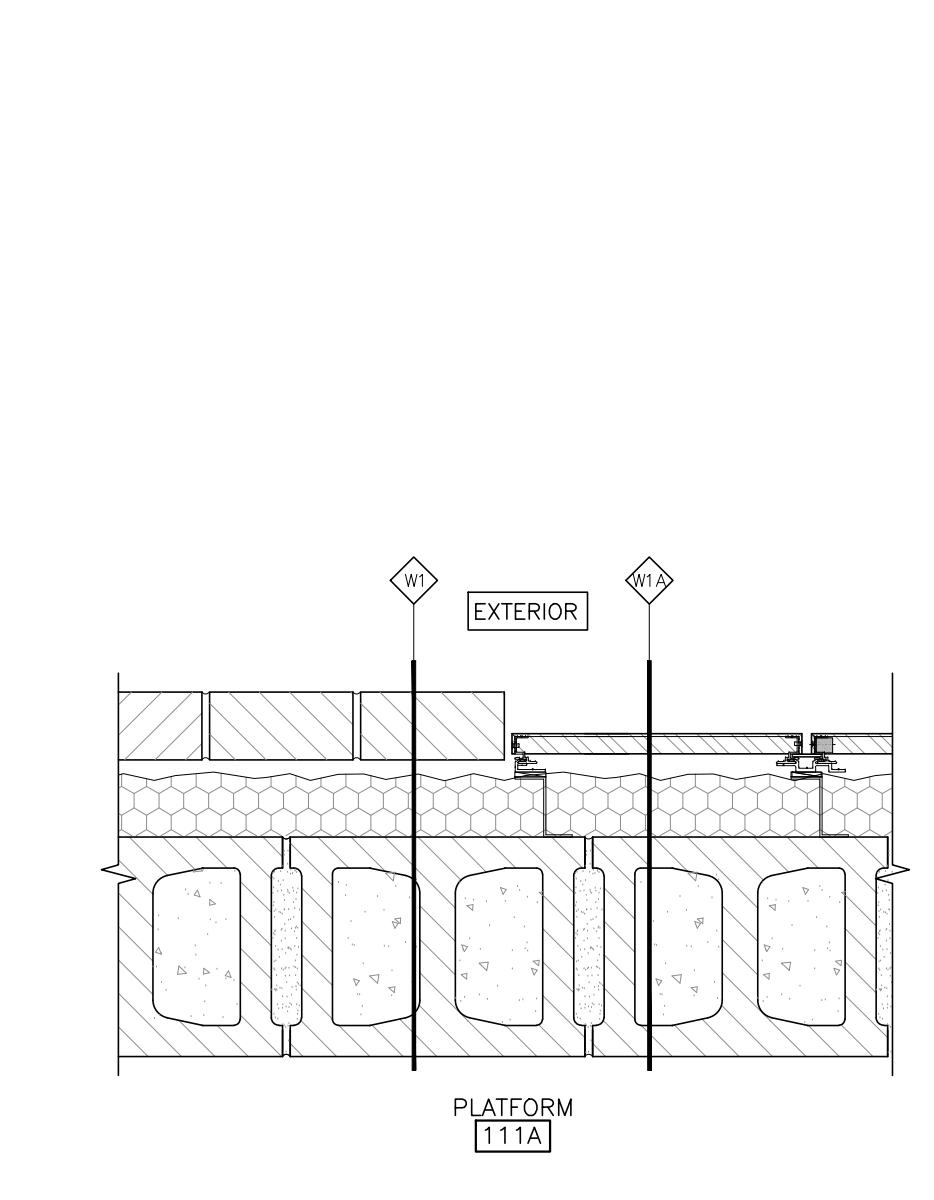
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Details

Drwn: Chkd: WJC
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Scale: As noted
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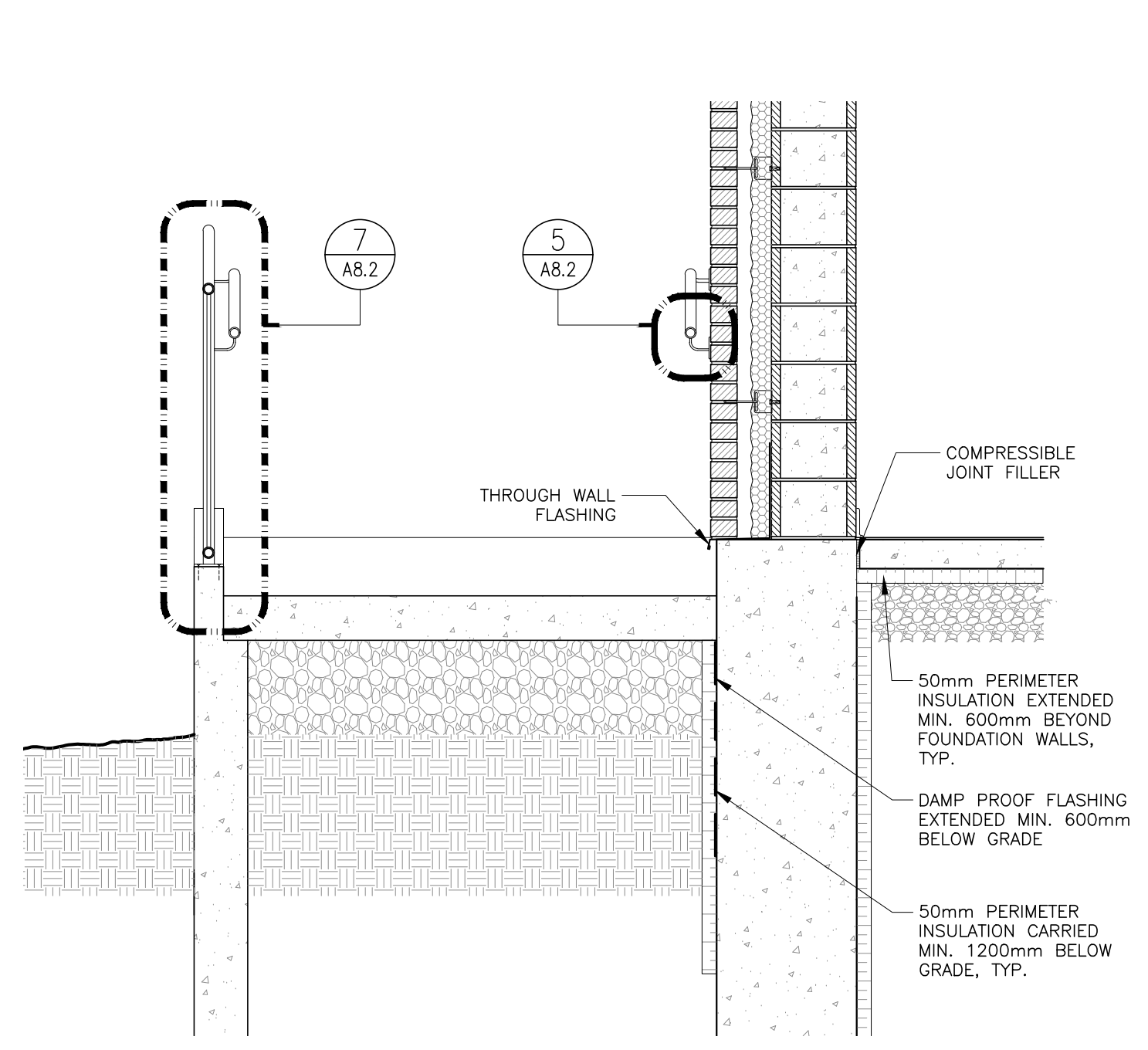
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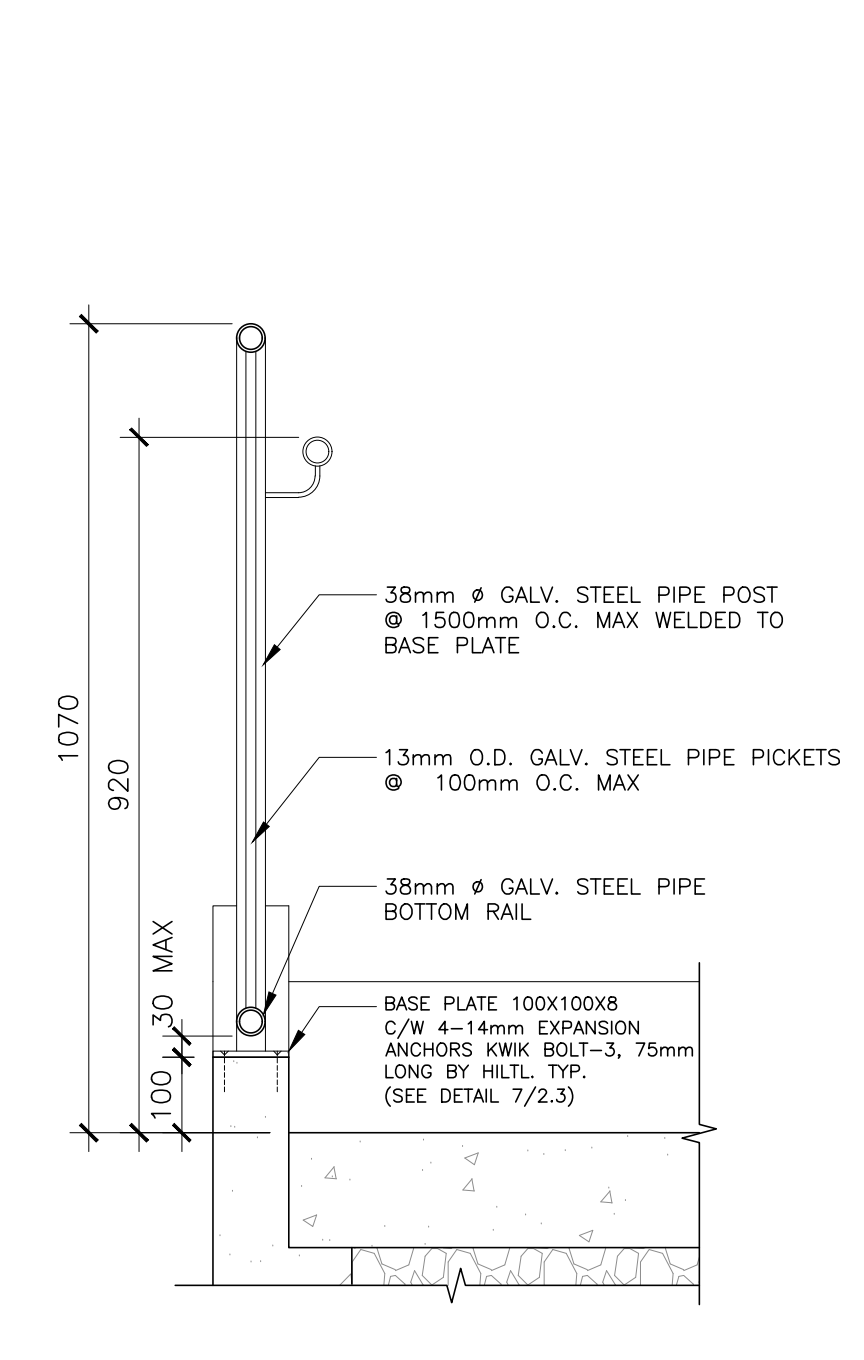
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A8.2 1:10



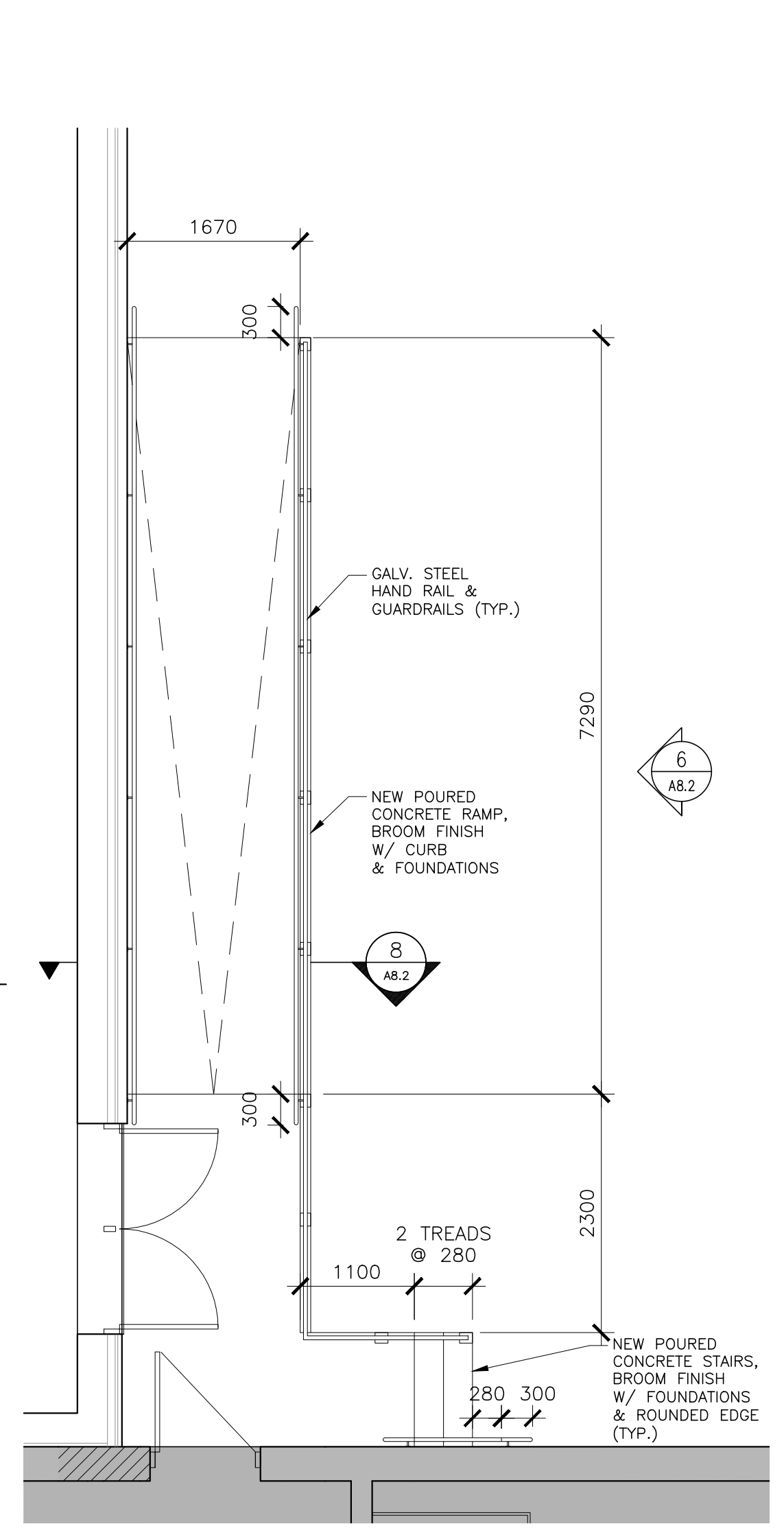
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A8.2 1:10



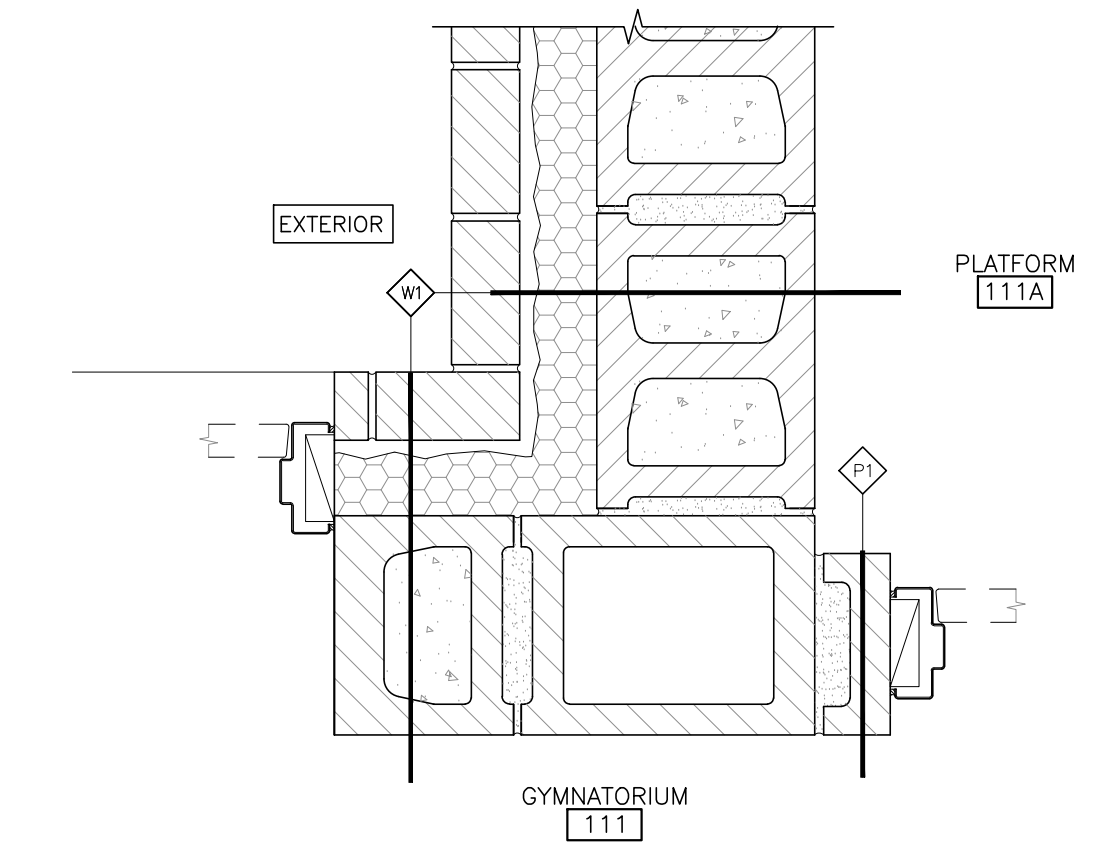
8 SECTION DETAIL @ RAMP
A8.2 1:20



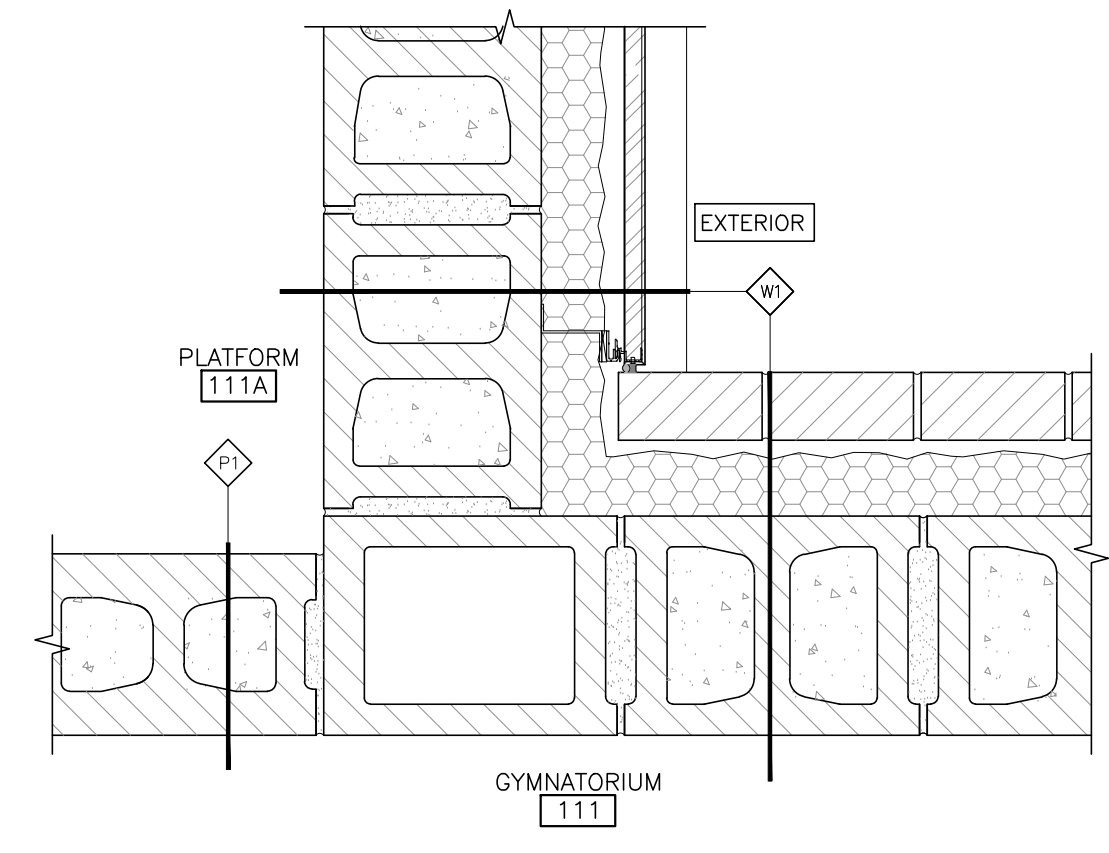
7 SECTION DETAIL @ GUARDRAIL W/CURB
A8.2 1:10



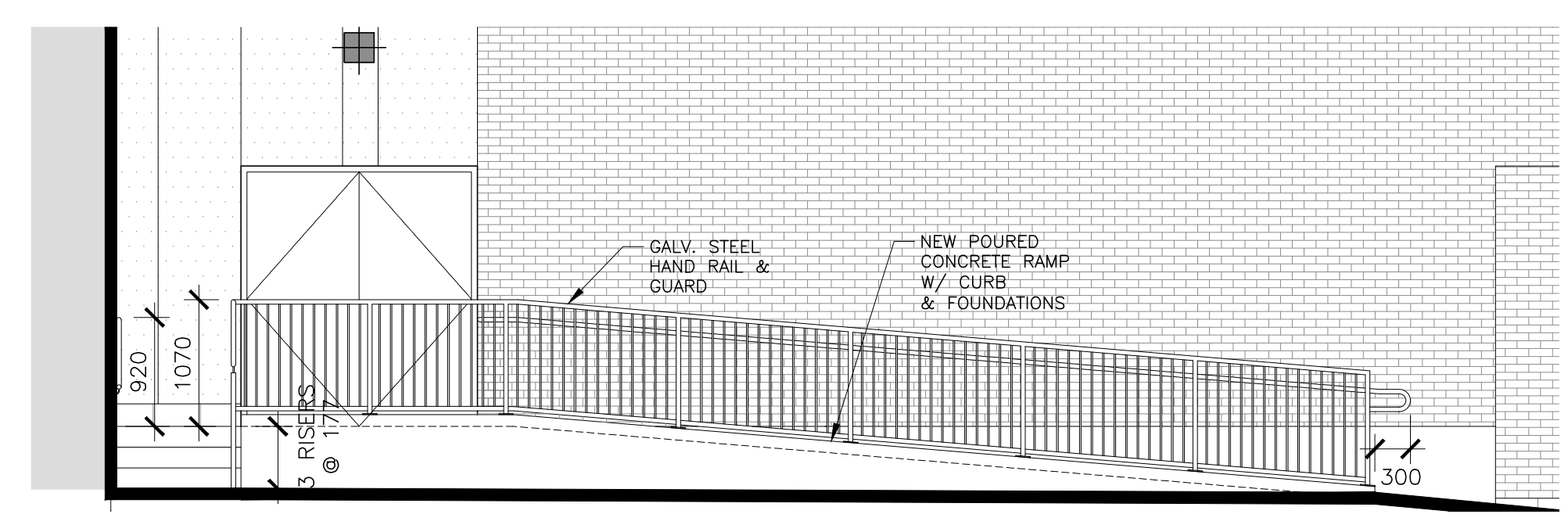
2 PLAN
A8.2 1:50



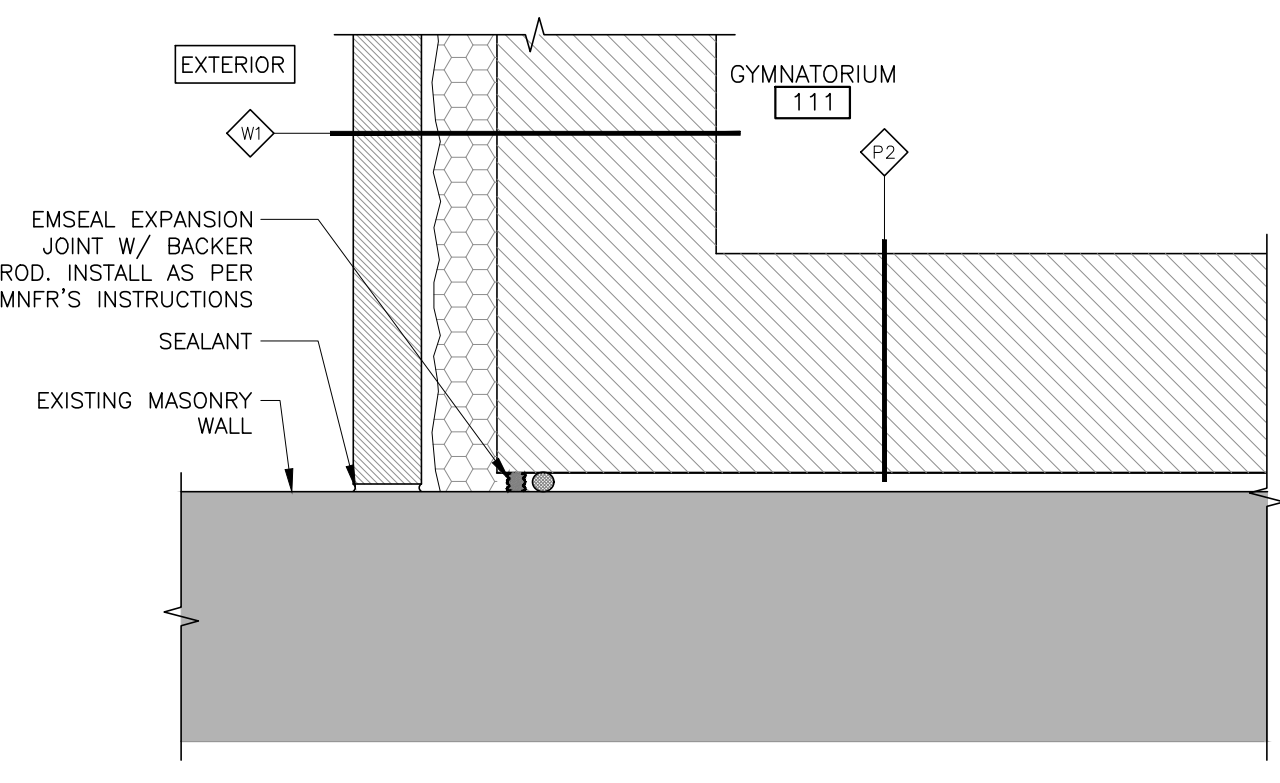
14 PLAN DETAIL
A8.2 1:10



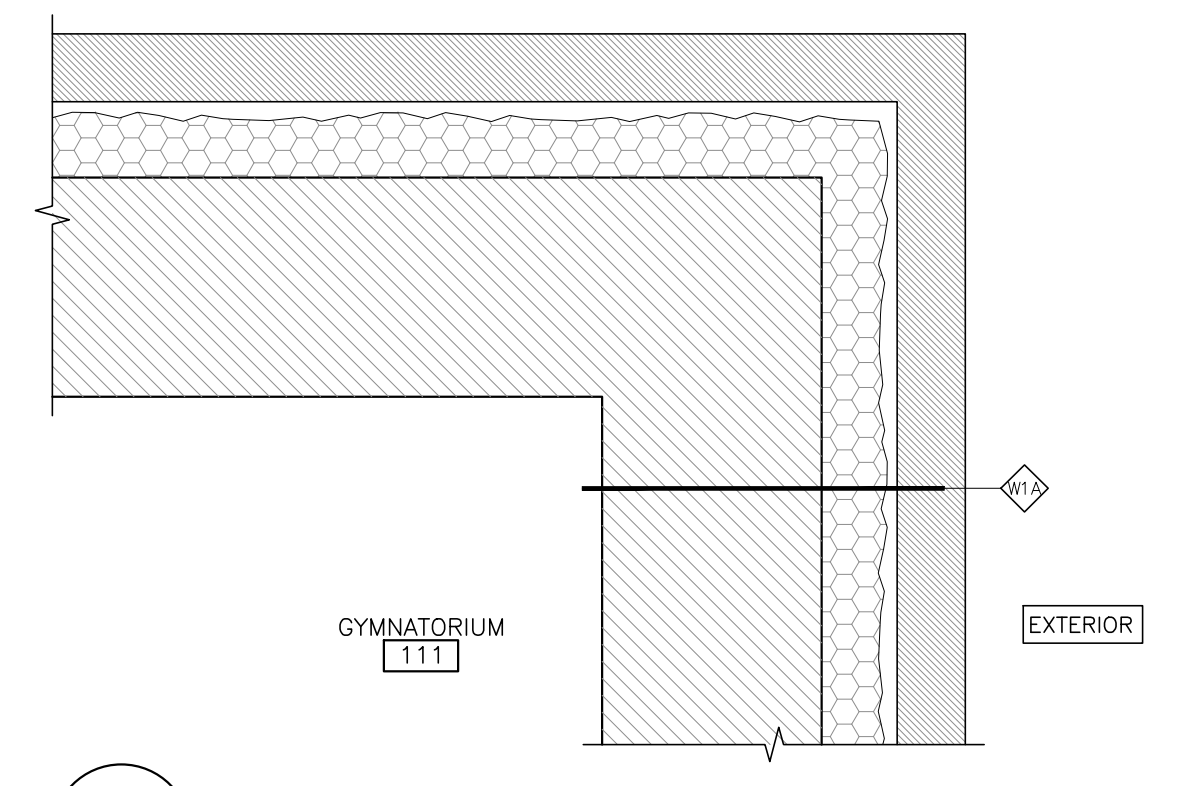
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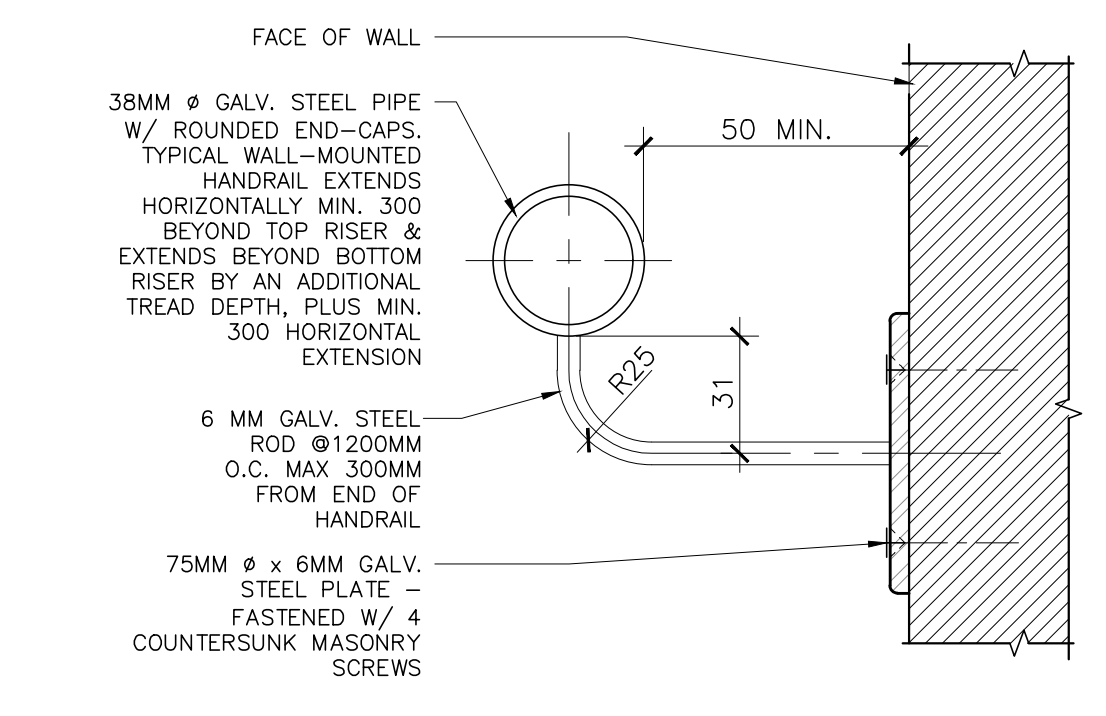
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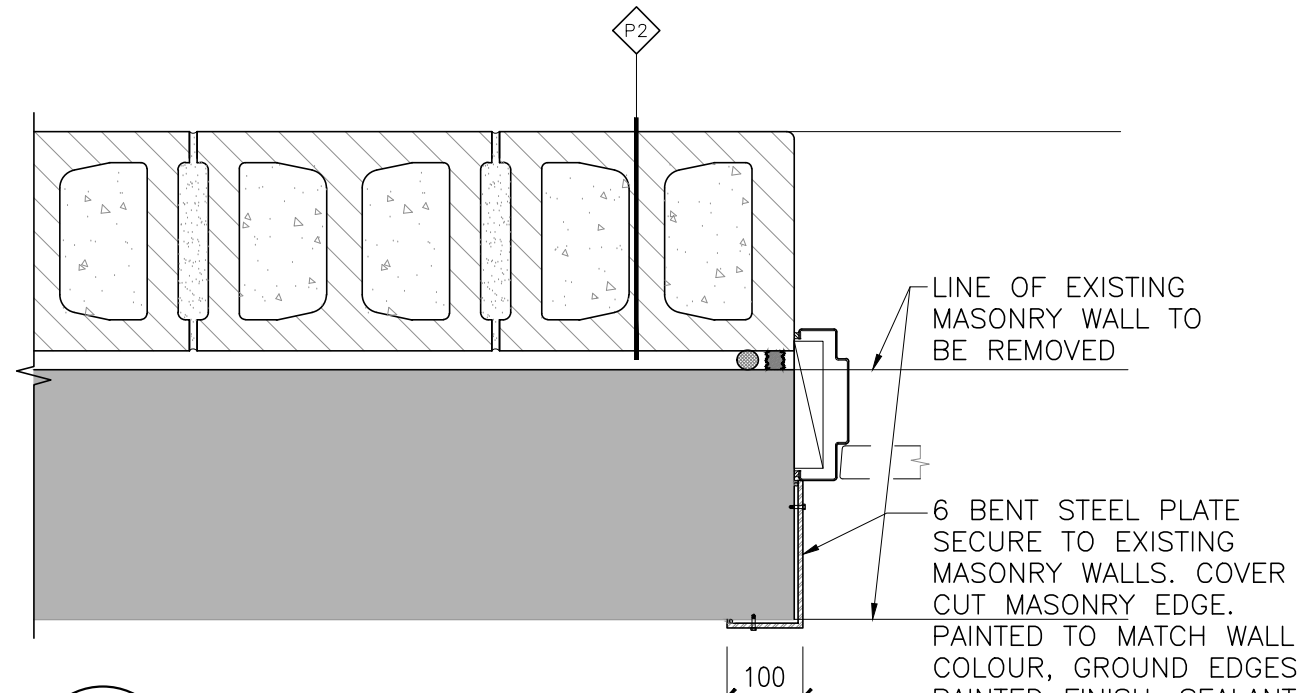
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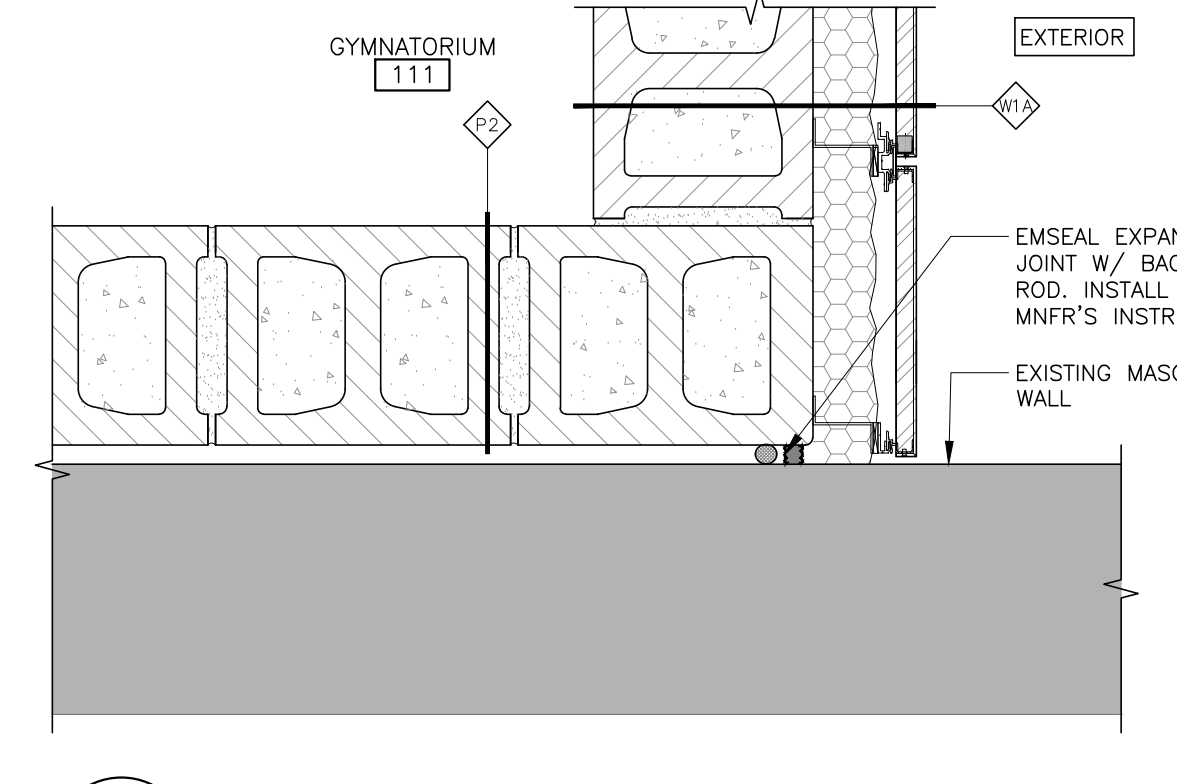
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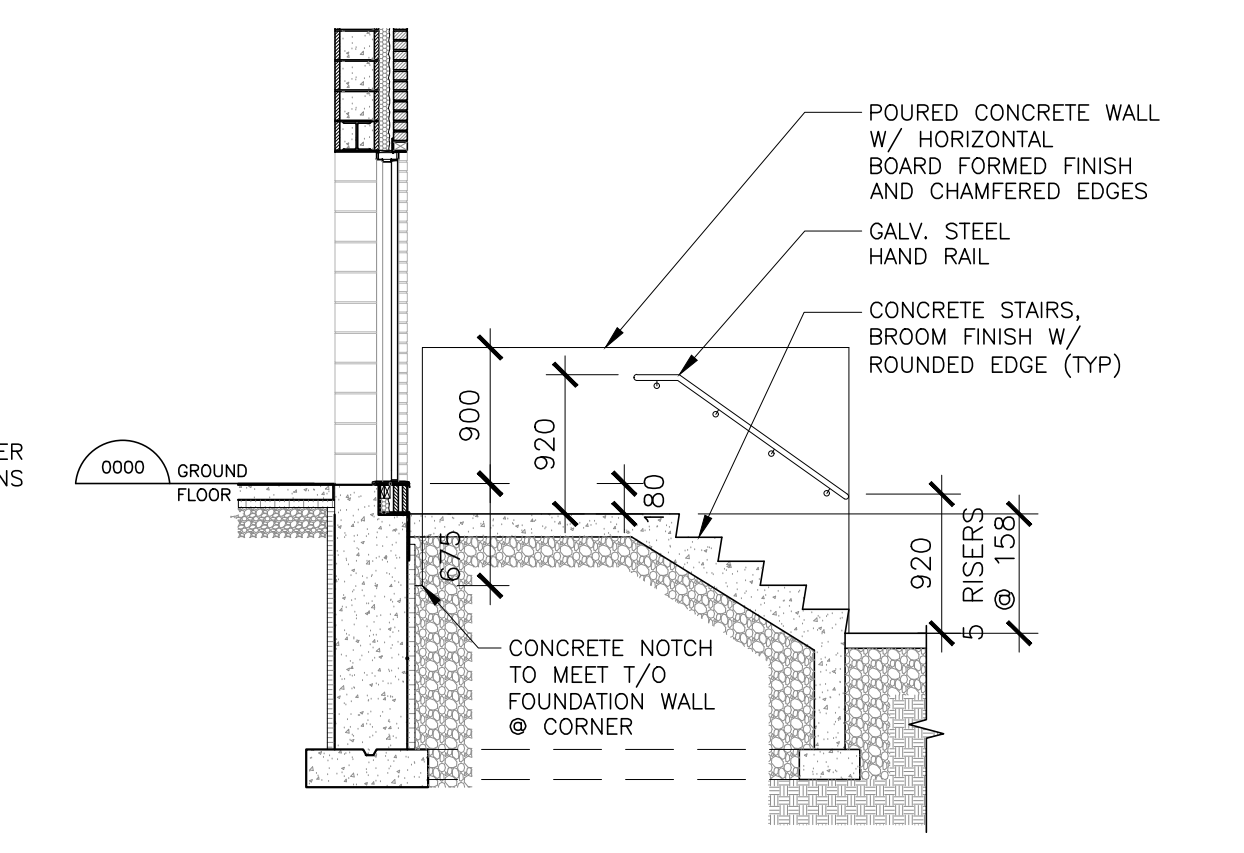
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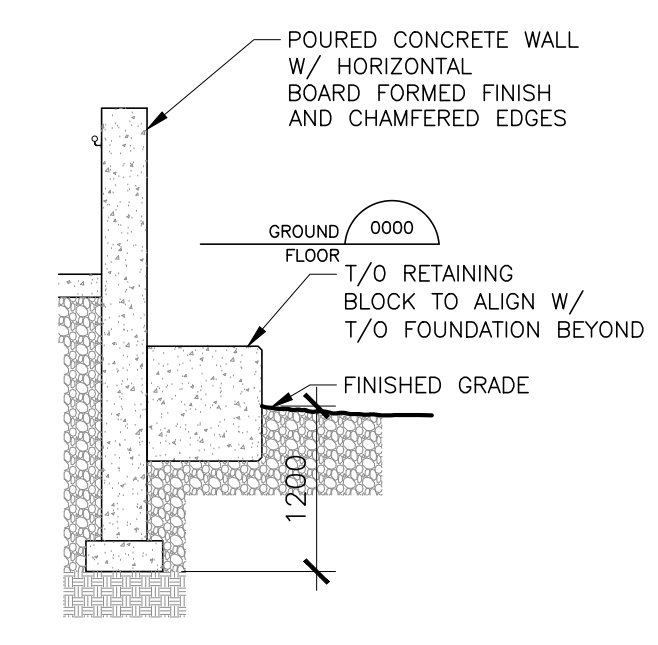
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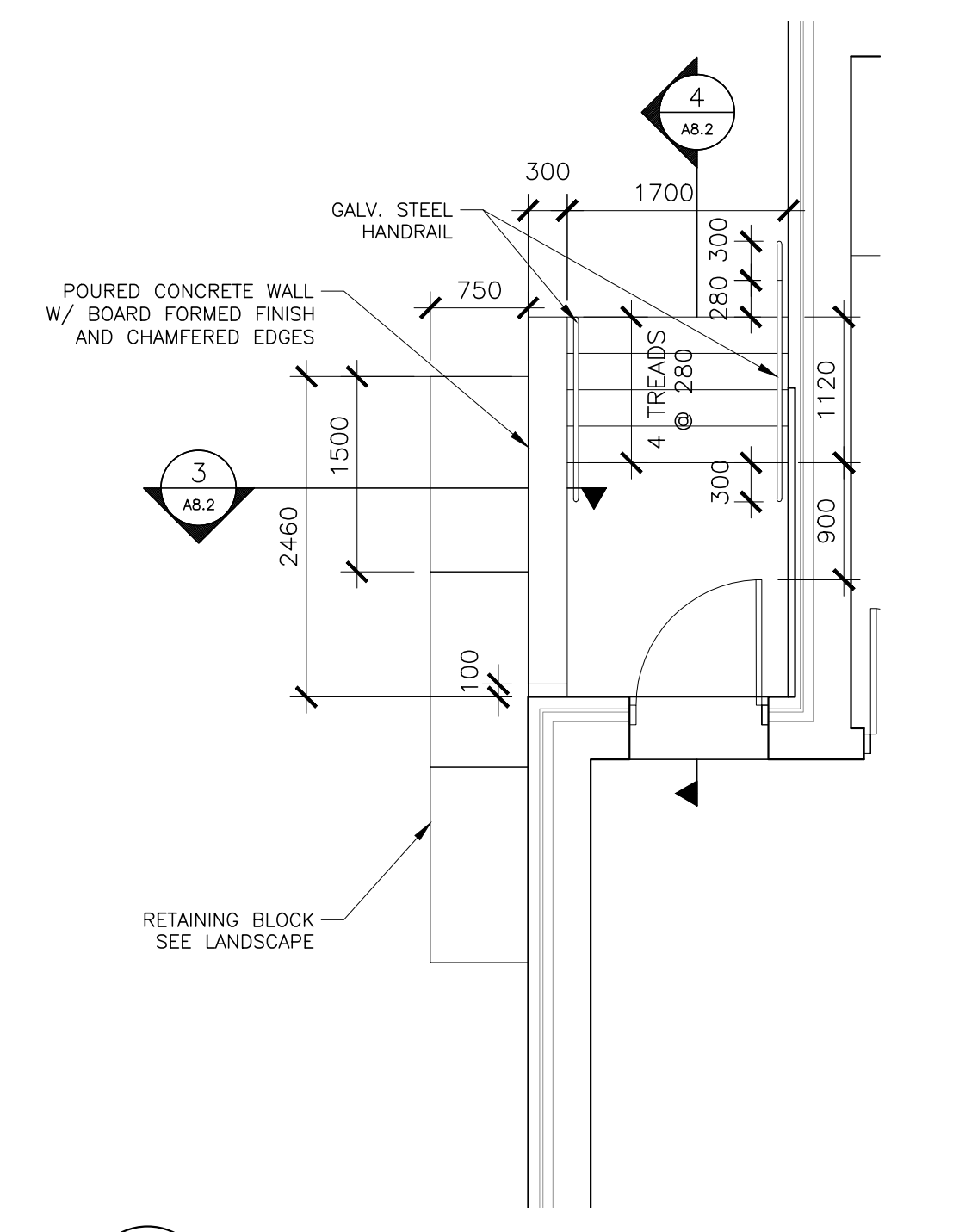
9 PLAN DETAIL
A8.2 1:10



4 SECTION DETAIL
A8.2 1:50



3 SECTION DETAIL
A8.2 1:50



1 PLAN
A8.2 1:50

CURRAN | GACESA | SLOTE
ARCHITECTS
TEL: 905-297-0863
118 JAMES ST. NORTH, SUITE 301, HAMILTON, ONTARIO L8N 2K7

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1	2023-09-27	Sent to Civil Engineer

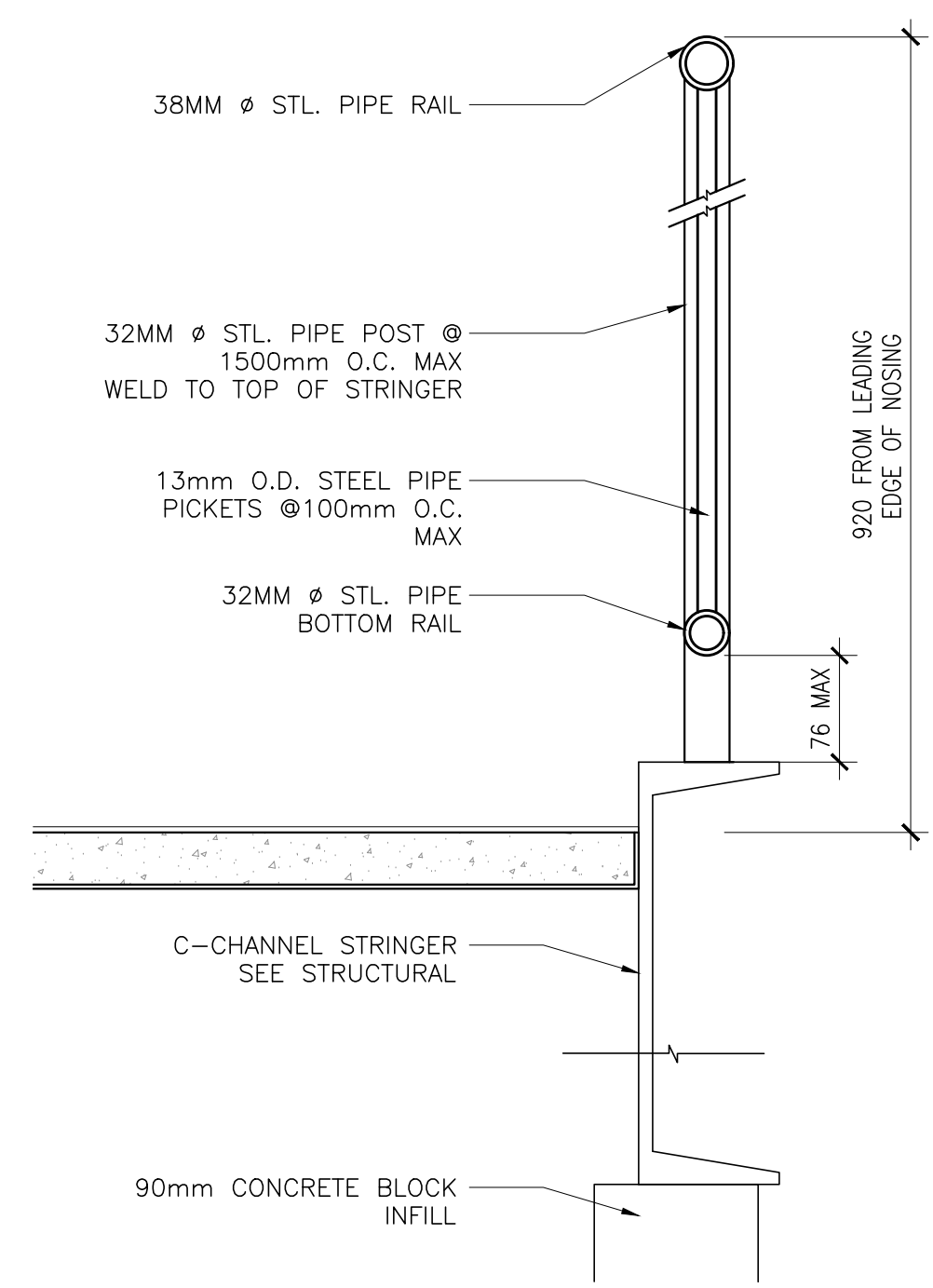
Addition to
**HWDSB Rosedale
Elementary School**
25 Erindale Ave.
Hamilton, Ontario L8N 3L1

Dwg. Title:
Details

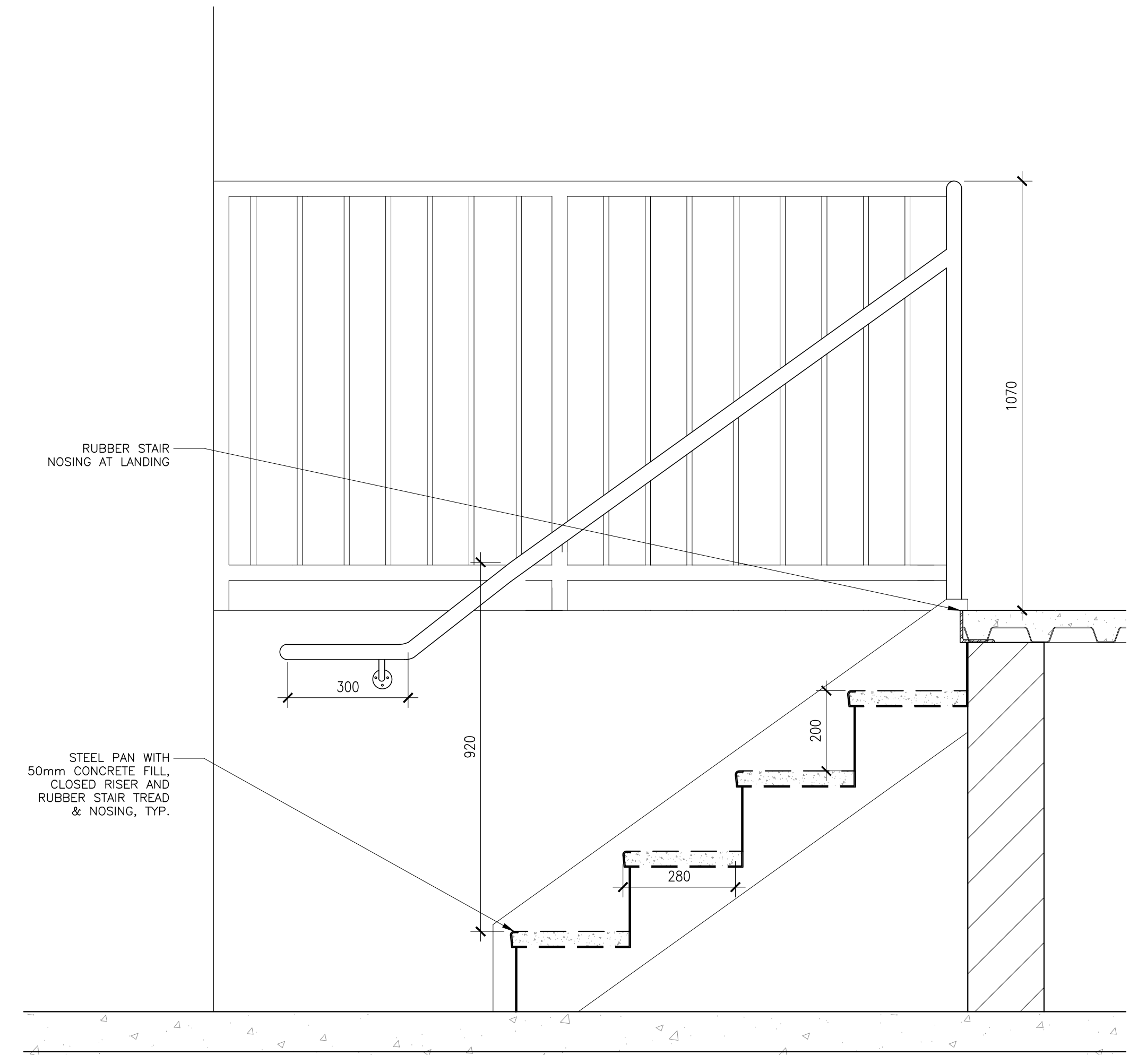
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Proj. No.: 23011
Scale: As noted
Date: 01/31/24

Drawing No.:
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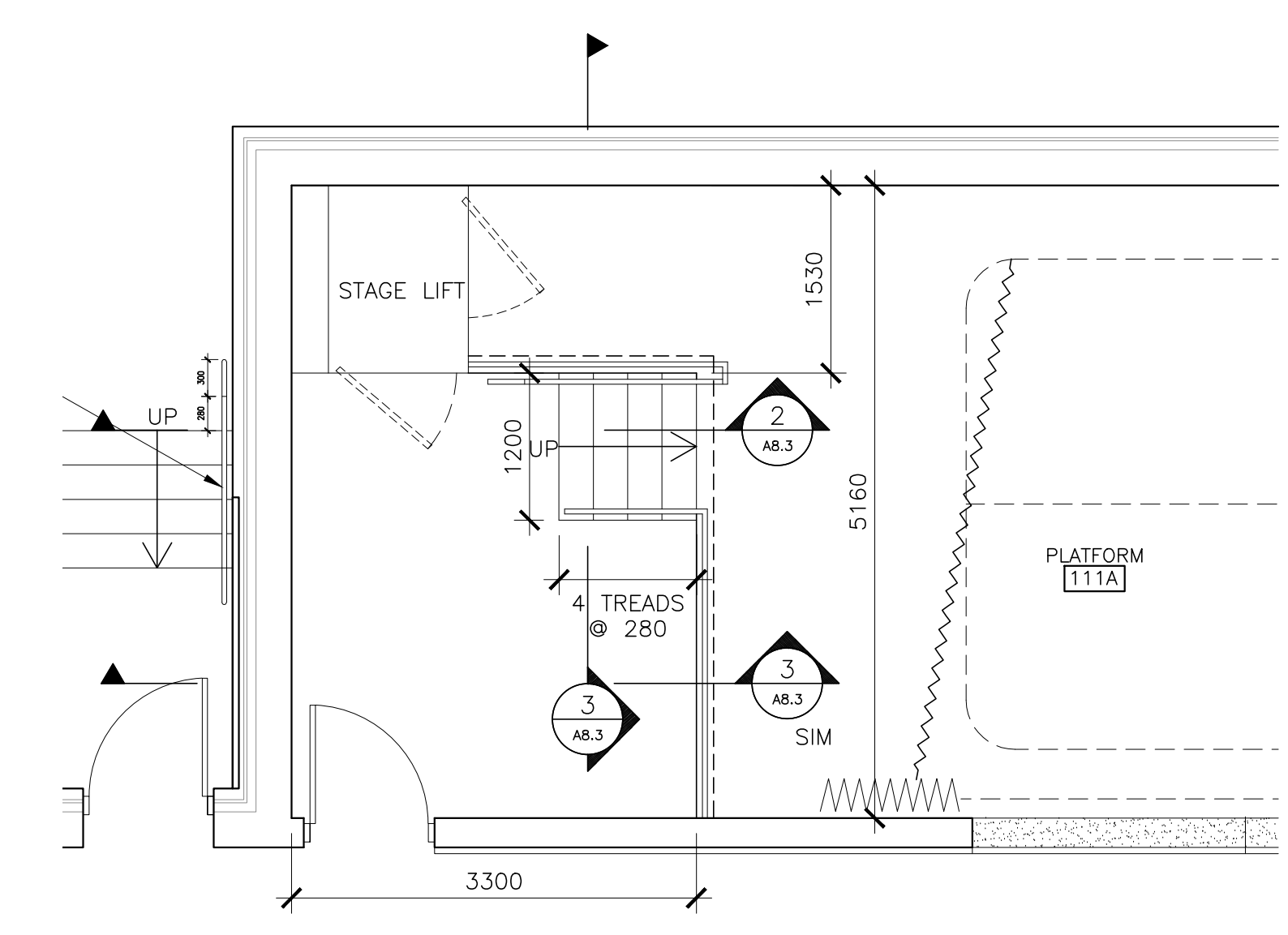
AREA 11



3 SECTION DETAIL
A8.3 1:5



2 SECTION DETAIL
A8.3 1:10



1 PLAN DETAIL
A8.3 1:50

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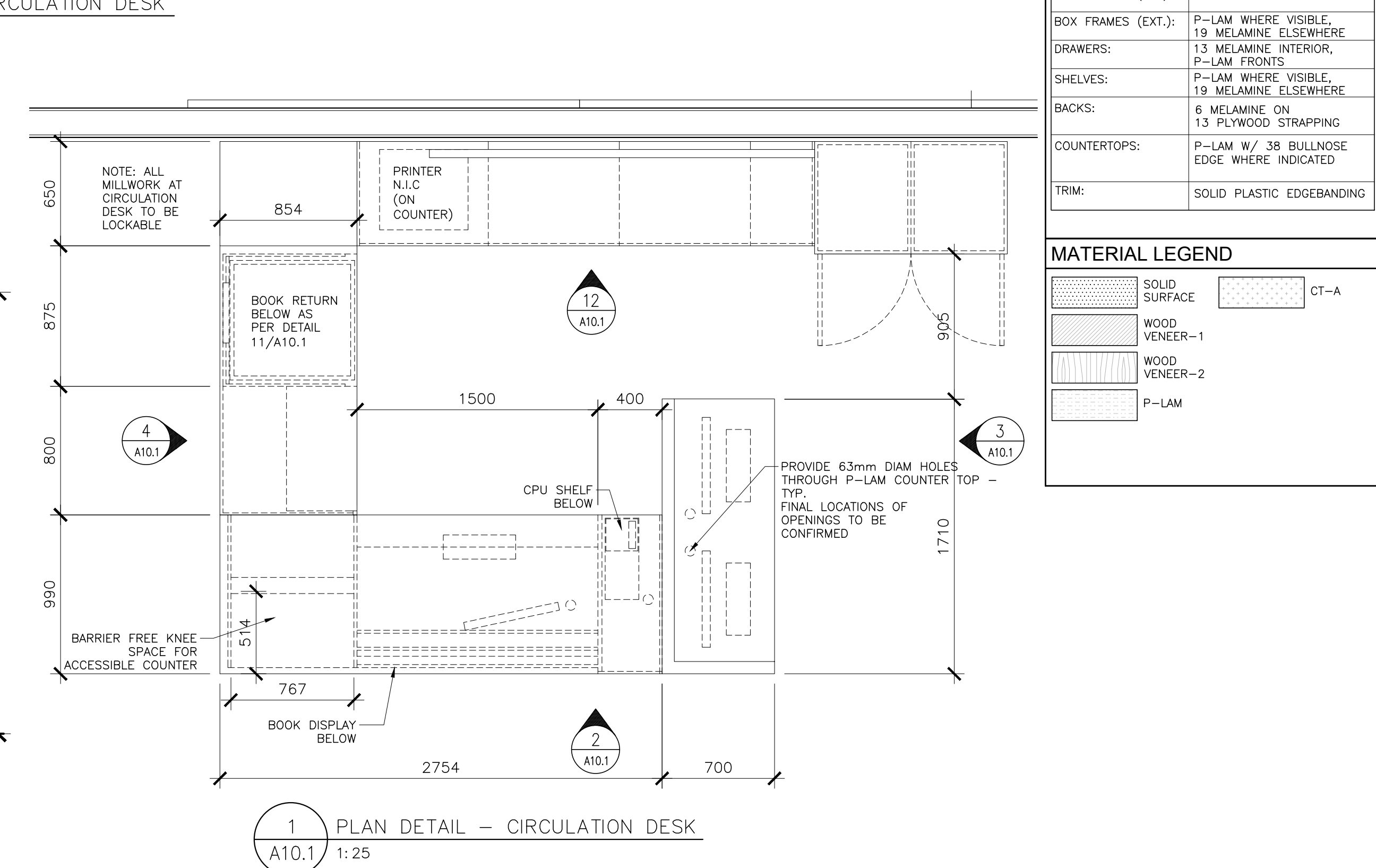
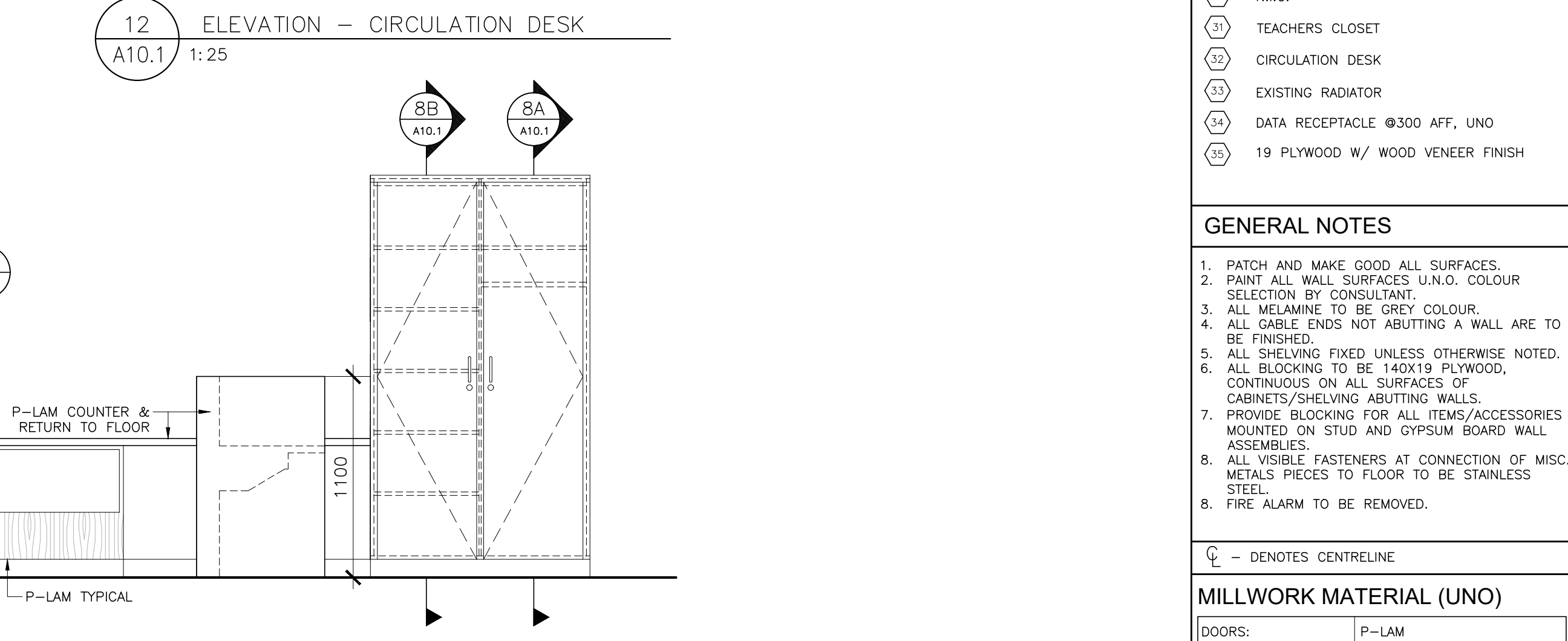
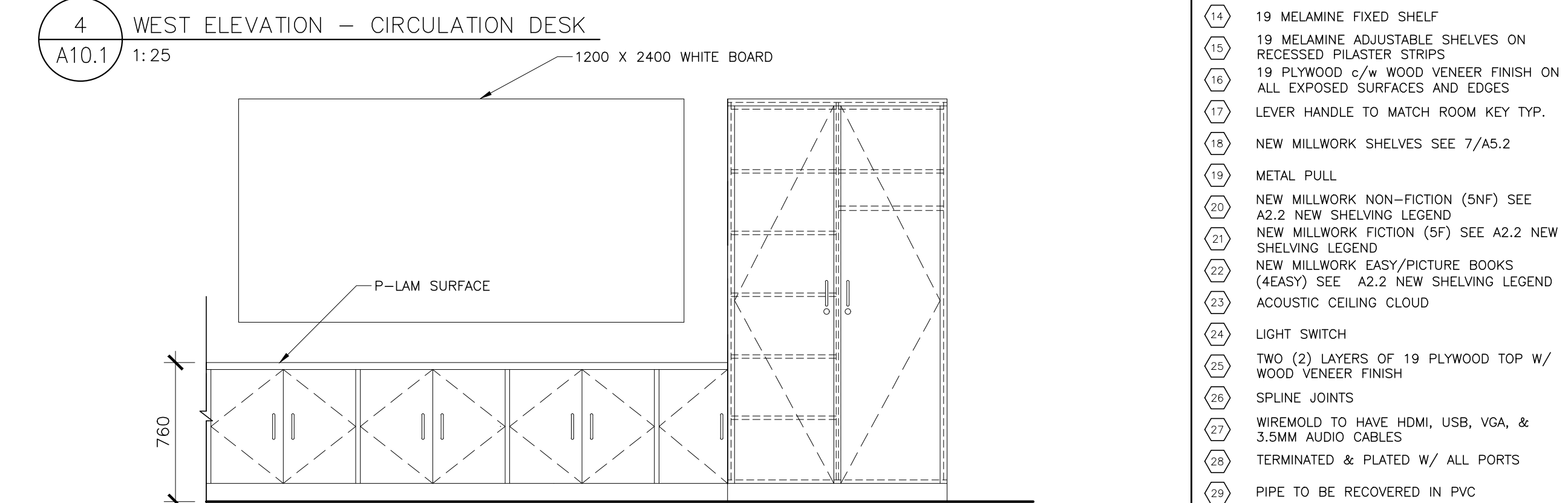
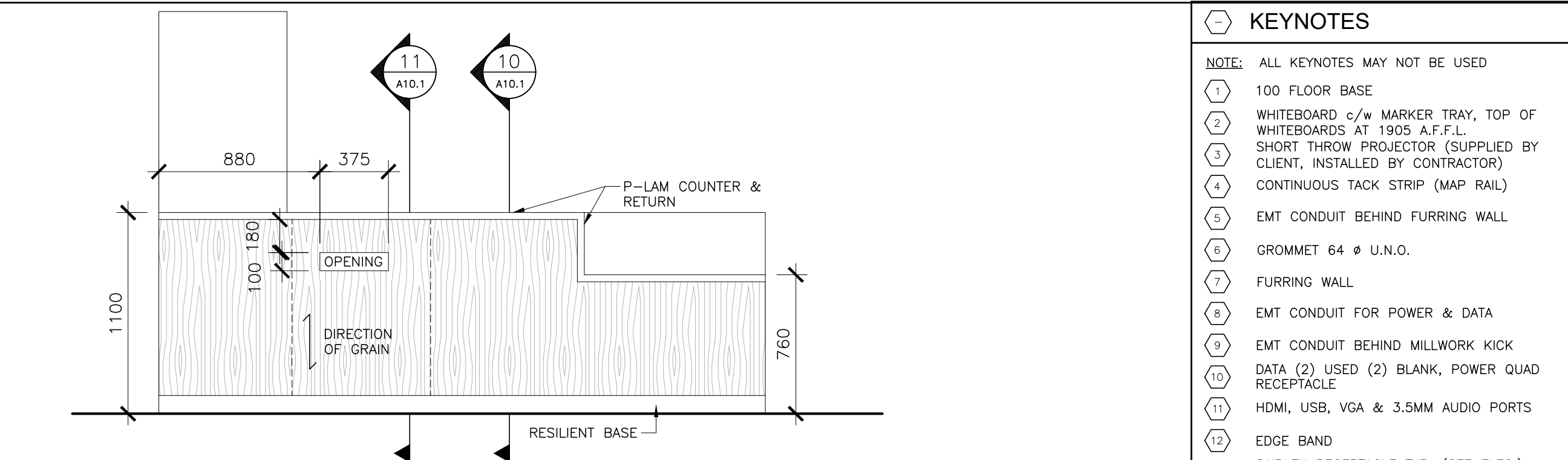
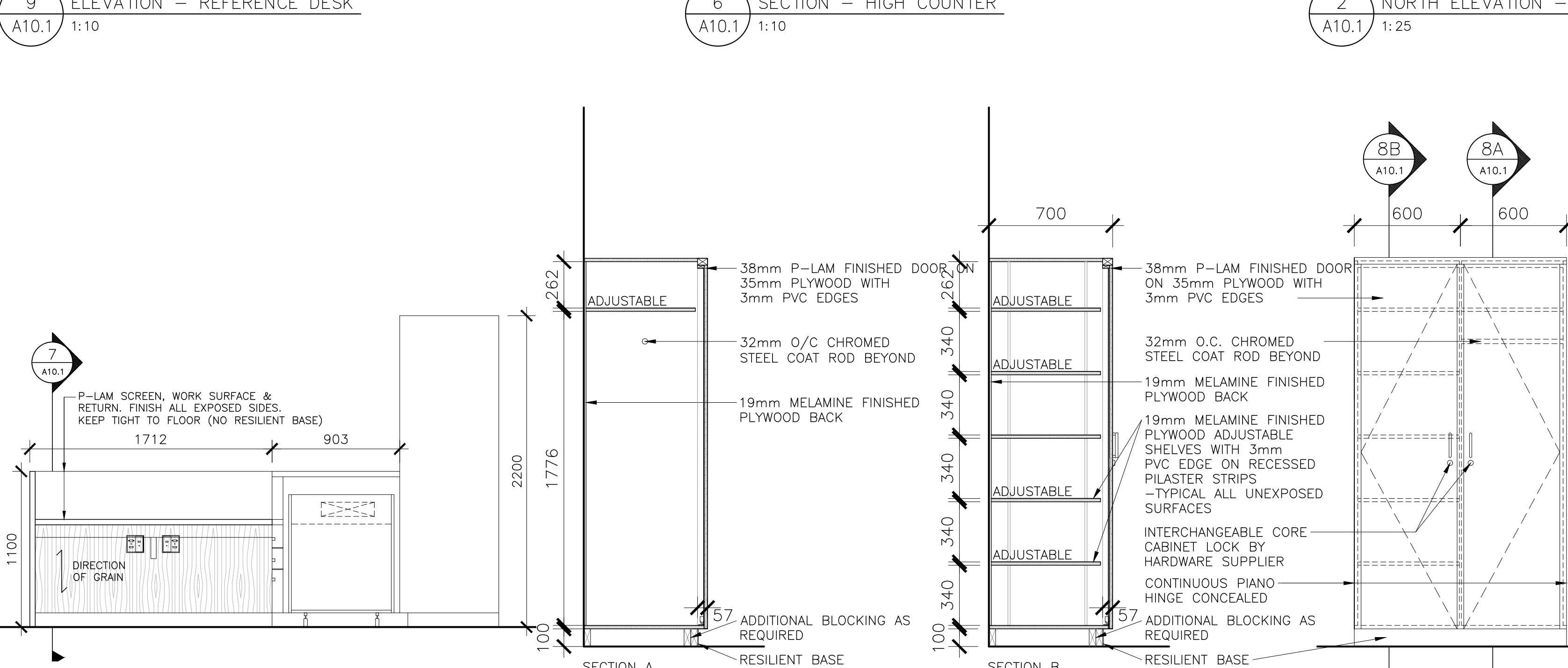
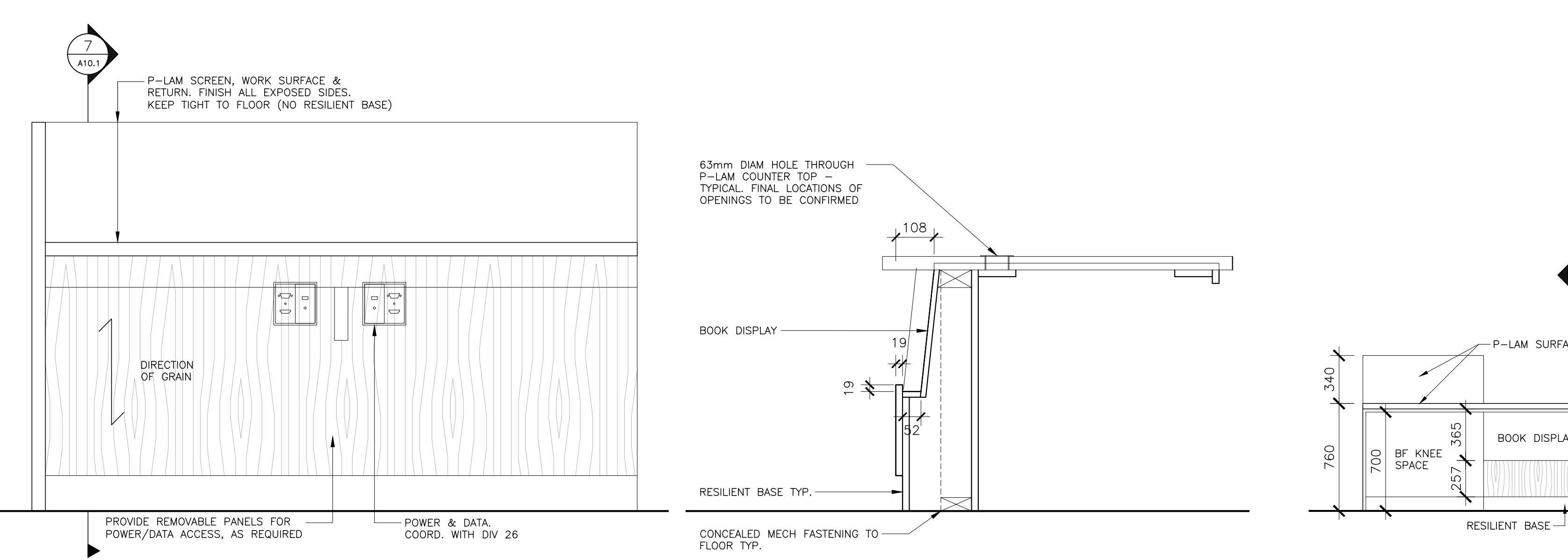
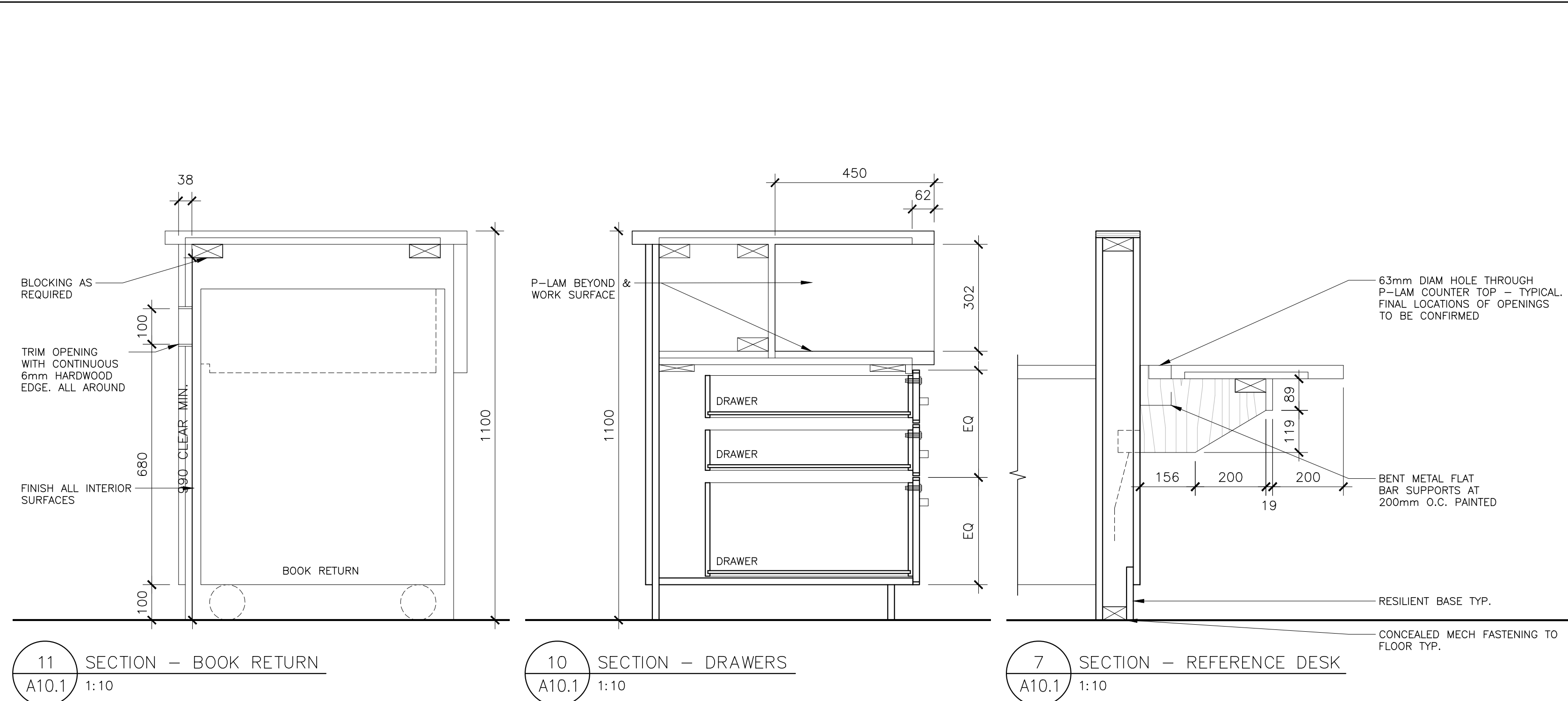
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25 Erindale Ave.
Hamilton, Ontario L8N 3L1

Dwg. Title:
Details

Drwn: Chkd: WJC
Proj. No.: 23011
Scale: As noted
Date: 01/31/24

Drawing No.:
A8.3



- ### KEYNOTES
- NOTE: ALL KEYNOTES MAY NOT BE USED
- 100 FLOOR BASE
 - WHITEBOARD c/w MARKER TRAY, TOP OF WHITEBOARDS AT 1905 A.F.F.L.
 - SHORT THROW PROJECTOR (SUPPLIED BY CLIENT, INSTALLED BY CONTRACTOR)
 - CONTINUOUS TACK STRIP (MAP RAIL)
 - EMT CONDUIT BEHIND FURRING WALL
 - GROMMET 64 ø U.N.O.
 - FURRING WALL
 - EMT CONDUIT FOR POWER & DATA
 - EMT CONDUIT BEHIND MILLWORK KICK
 - DATA (2) USED (2) BLANK, POWER QUAD RECEPTACLE
 - HDMI, USB, VGA & 3.5MM AUDIO PORTS
 - EDGE BAND
 - DUPLEX RECEPTACLE TYP. (SEE ELEC.) Ø300 AFF. UNO.
 - 19 MELAMINE FIXED SHELF
 - 19 MELAMINE ADJUSTABLE SHELVES ON RECESSED PILASTER STRIPS
 - 19 PLYWOOD c/w WOOD VENEER FINISH ON ALL EXPOSED SURFACES AND EDGES
 - LEVER HANDLE TO MATCH ROOM KEY TYP.
 - NEW MILLWORK SHELVES SEE 7/A5.2
 - METAL PULL
 - NEW MILLWORK NON-FICTION (5NF) SEE A2.2 NEW SHELVING LEGEND
 - NEW MILLWORK FICTION (5F) SEE A2.2 NEW SHELVING LEGEND
 - NEW MILLWORK EASY/PICTURE BOOKS (4EASY) SEE A2.2 NEW SHELVING LEGEND
 - ACOUSTIC CEILING CLOUD
 - LIGHT SWITCH
 - TWO (2) LAYERS OF 19 PLYWOOD TOP W/ WOOD VENEER FINISH
 - SPLINE JOINTS
 - WIREMOLD TO HAVE HDMI, USB, VGA, & 3.5MM AUDIO CABLES
 - TERMINATED & PLATED W/ ALL PORTS
 - PIPE TO BE RECOVERED IN PVC
 - N.I.C.
 - TEACHERS CLOSET
 - CIRCULATION DESK
 - EXISTING RADIATOR
 - DATA RECEPTACLE Ø300 AFF. UNO
 - 19 PLYWOOD W/ WOOD VENEER FINISH

- ### GENERAL NOTES
1. PATCH AND MAKE GOOD ALL SURFACES.
 2. PAINT ALL WALL SURFACES U.N.O. COLOUR SELECTION BY CONSULTANT.
 3. ALL MELAMINE TO BE GREY COLOUR.
 4. ALL CABLE ENDS NOT ABUTTING A WALL ARE TO BE FINISHED.
 5. ALL SHELVING FIXED UNLESS OTHERWISE NOTED.
 6. ALL BLOCKING TO BE 140X19 PLYWOOD, CONTINUOUS ON ALL SURFACES OF CABINETS/SHELVING ABUTTING WALLS.
 7. PROVIDE BLOCKING FOR ALL ITEMS/ACCESSORIES MOUNTED ON STUD AND GYPSUM BOARD WALL ASSEMBLIES.
 8. ALL VISIBLE FASTENERS AT CONNECTION OF MISC. METALS PIECES TO FLOOR TO BE STAINLESS STEEL
 9. FIRE ALARM TO BE REMOVED.
- CL - DENOTES CENTRELINE

MILLWORK MATERIAL (UNO)

DOORS:	P-LAM
BOX FRAMES (INT.):	19 MELAMINE
BOX FRAMES (EXT.):	P-LAM WHERE VISIBLE, 19 MELAMINE ELSEWHERE
DRAWERS:	13 MELAMINE INTERIOR, P-LAM FRONTS
SHELVES:	P-LAM WHERE VISIBLE, 19 MELAMINE ELSEWHERE
BACKS:	6 MELAMINE ON 13 PLYWOOD STRAPPING
COUNTERTOPS:	P-LAM W/ 38 BULLNOSE EDGE WHERE INDICATED
TRIM:	SOLID PLASTIC EDGEBANDING

MATERIAL LEGEND

	SOLID SURFACE		CT-A
	WOOD VENEER-1		
	WOOD VENEER-2		
	P-LAM		

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CGS
118 JAMES ST. NORTH, SUITE 301, HAMILTON, ONTARIO L8N 2K7
TEL: 905-297-0663

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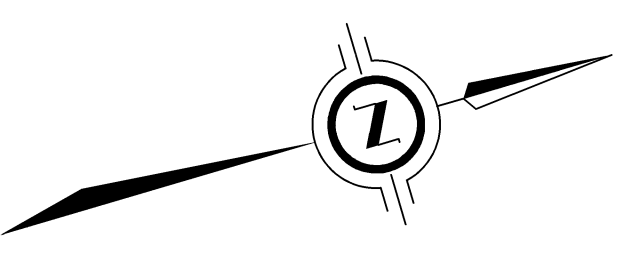
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Dwg. Title:
Millwork Details

Drwn: Chkd: WJC

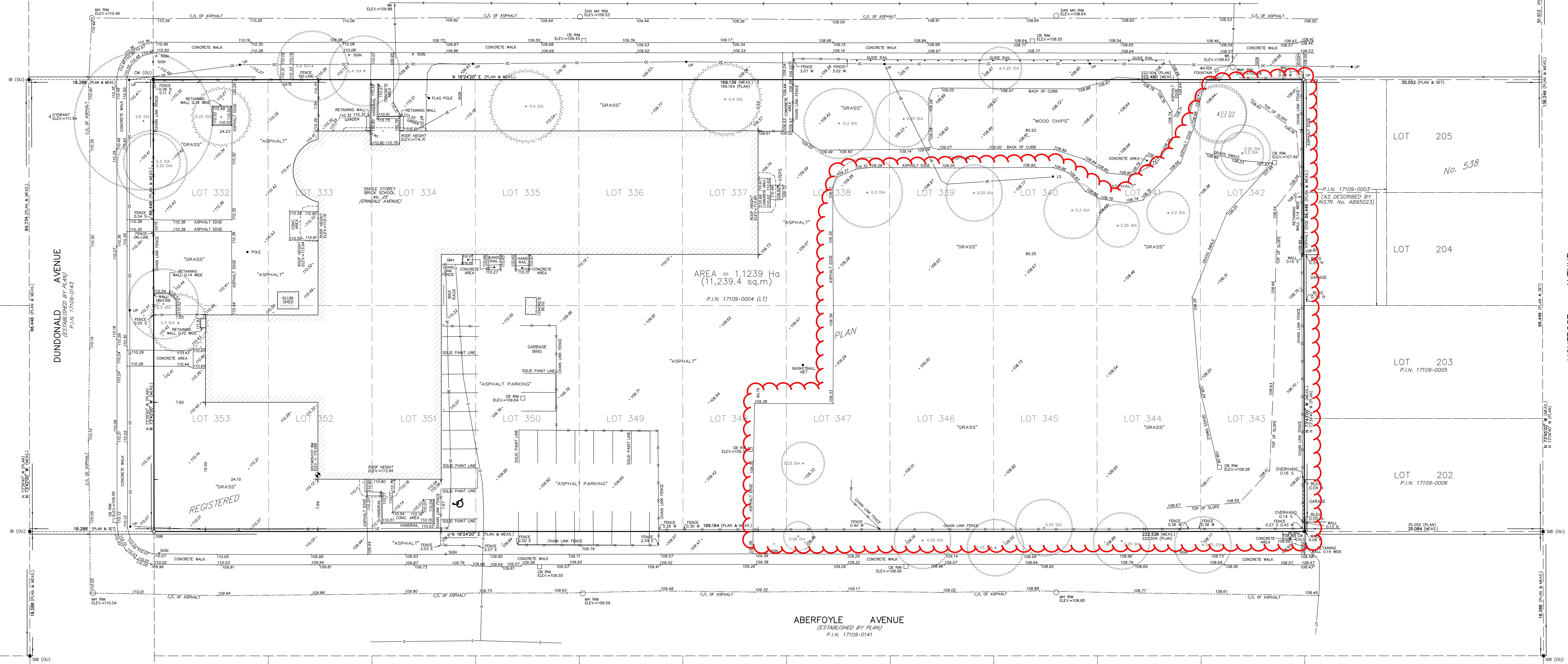
Proj. No.: 23011
Scale: As noted
Date: 01/31/24

Drawing No.:
A10.1



ERINDALE AVENUE
(ESTABLISHED BY PLAN)
P.I.N. 17109-0142

ABERFOYLE AVENUE
(ESTABLISHED BY PLAN)
P.I.N. 17109-0141



AREA = 1,1239 Ha
(11,239.4 sq.m)
P.I.N. 17109-0004 (LT)

PLAN

SURVEYOR'S REAL PROPERTY REPORT
(WITH TOPOGRAPHIC FEATURES)
PART 1 - PLAN SHOWING
LOT 332 TO 353 (INCLUSIVE)
REGISTERED PLAN No. 538
CITY OF HAMILTON
MATTHEWS, CAMERON, HEYWOOD - KERRY T. HOWE SURVEYING LTD.
© COPYRIGHT 2018

SCALE 1 : 200
5 0 5 10 metres

METRIC DISTANCES AND/OR COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

ELEVATION ELEVATIONS ARE OF GEODETIC ORIGIN (CGVD-1928/79), AND ARE DERIVED FROM GEODETIC BENCHMARK 2018010707 NEAR THE SOUTH-EAST CORNER OF ROSDALE SCHOOL.
ELEVATION = 110.296

NOTES
BEARINGS SHOWN HEREON ARE GRID BEARINGS DERIVED FROM GNSS OBSERVATIONS AND ARE REFERRED TO THE CENTRAL MERRIDIAN 81°W OF UTM ZONE 17N, NAD83 (CSRS) EPOCH 2010.0 REFERENCE SYSTEM.
COMPLIANCE WITH ONTARIO BUILDING CODE SETBACK REQUIREMENTS ARE NOT VERIFIED BY THIS SURVEY.
FOR BEARING COMPARISONS, A ROTATION OF 01°08'40" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON PLAN.

PART 2 - SURVEY REPORT
- DESCRIPTION
LOT 332 TO 353 (INCLUSIVE), REGISTERED PLAN No. 538.
- REGISTERED EASEMENTS AND/OR RIGHTS-OF-WAY
NONE.
- BOUNDARY FEATURES
SEE PLAN FOR FENCE & RETAINING WALL DETAILS.
- ZONING COMPLIANCE
NOT CERTIFIED BY THIS PLAN.
- ADDITIONAL REMARKS
PREPARED FOR HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD.

LEGEND
■ DENOTES SURVEY MONUMENT FOUND
SIB DENOTES SURVEY MONUMENT SET
SIBS DENOTES SHORT STANDARD IRON BAR
IB DENOTES IRON BAR
CM DENOTES CONCRETE MONUMENT
CP DENOTES CONCRETE PIN & WASHER
OU DENOTES ORIGIN UNKNOWN
MT DENOTES MEASURED
MEAS DENOTES MEASURED
744 DENOTES MATTHEWS, CAMERON, HEYWOOD-KERRY T. HOWE SURVEYING LTD.
PLAN DENOTES REGISTERED PLAN No. 538

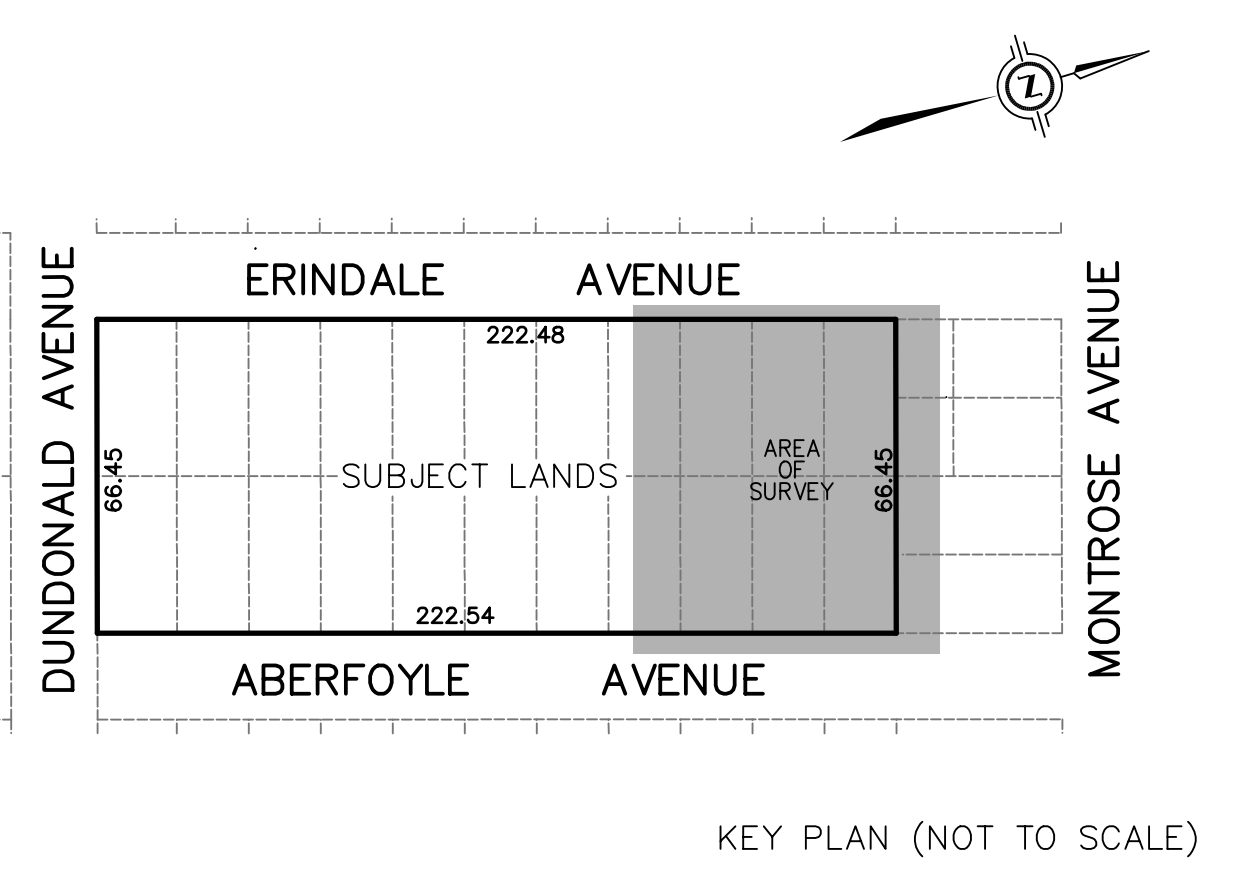
BM DENOTES BENCH MARK
CB DENOTES CATCH BASIN
DENOTES UNDERGROUND GAS LINE LOCATE
CM DENOTES GAS METER
CON DENOTES CONCRETE
MH DENOTES MAN HOLE
OC DENOTES OVERHEAD CABLE
PED DENOTES TELEPHONE PEDESTAL
DENOTES UNDERGROUND HYDRO LINE LOCATE
UP DENOTES UTILITY POLE
UT DENOTES UNDERGROUND TELECOMMUNICATIONS LINE LOCATE
W DENOTES WATER LINE
WMH DENOTES MAN HOLE (WATER)
WK DENOTES WATER KICK
N - NORTH / E - EAST / S - SOUTH / W - WEST

SURVEYOR'S CERTIFICATE
I CERTIFY THAT:
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON DECEMBER 12, 2017.

DASHA PAGE
ONTARIO LAND SURVEYOR

MATTHEWS, CAMERON, HEYWOOD - KERRY T. HOWE SURVEYING LTD.
A wholly owned subsidiary of J.D. Barco Limited
100 FREDERICK AVENUE, SUITE 200, MISSISSAUGA, ONTARIO L4V 1L7
T: (905) 896-8881 F: (905) 896-8822 www.jdhms.com

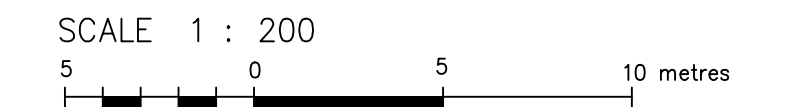
DATE: 12/21/2017
DRAWN BY: JKH
CHECKED BY: AC
DATE: 12/21/2017
SCALE: 1:200



NOTE: THIS SKETCH IS NOT A LEGAL PLAN OF SURVEY

TOPOGRAPHIC SKETCH OF
25 ERINDALE AVENUE

CITY OF HAMILTON



J.D. BARNES LIMITED
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LEGAL DESCRIPTION

LOT 332 TO 353 (BOTH INCLUSIVE) REGISTERED PLAN No. 538
BOUNDARY INFORMATION HAS BEEN DERIVED FROM AVAILABLE RECORDS AND/OR FIELD MEASUREMENTS. THIS IS NOT A PLAN OF SURVEY.

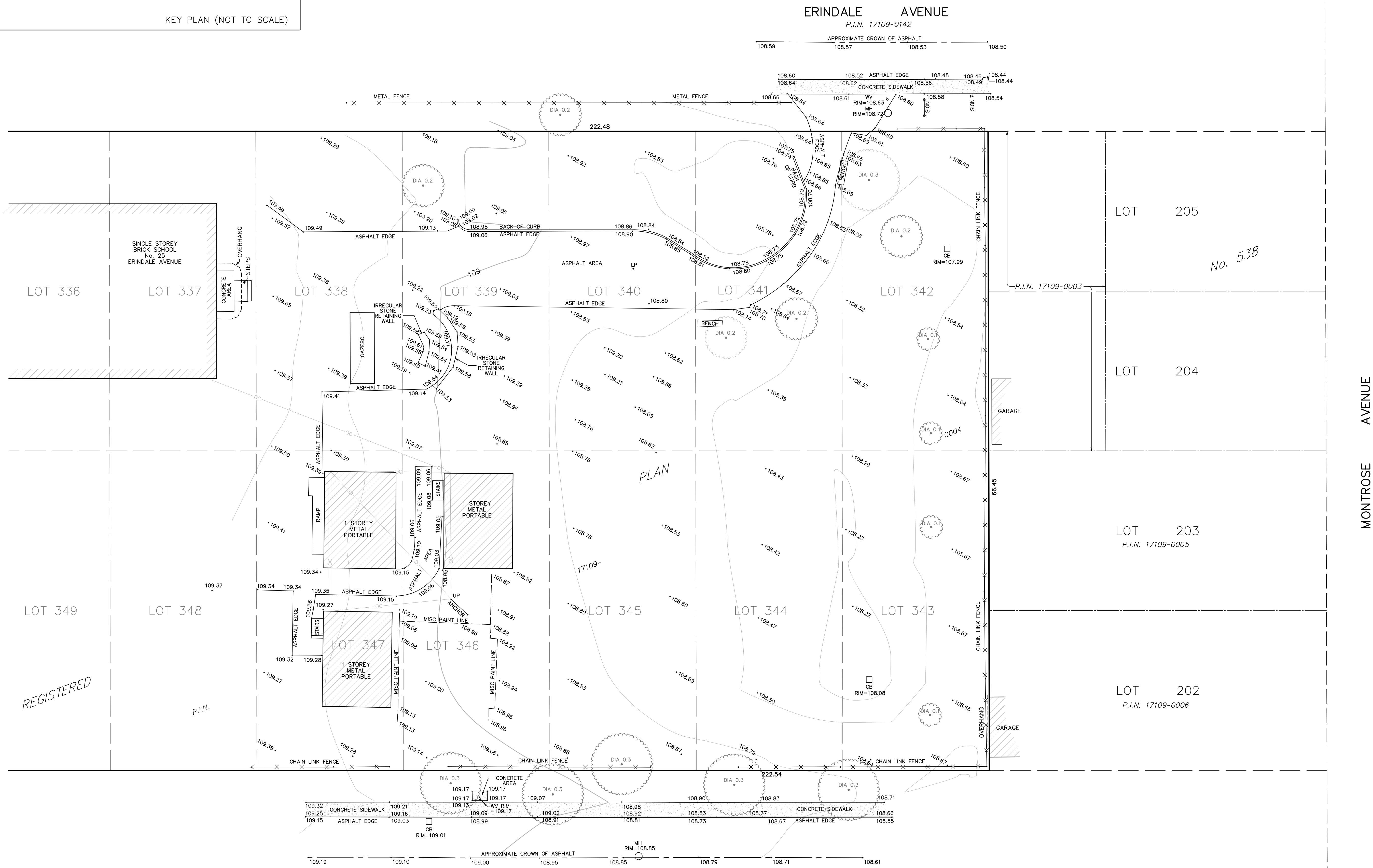
METRIC DISTANCES AND/OR COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NOTES
DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999704.

ELEVATION NOTE
ELEVATIONS ARE OF GEODETIC ORIGIN (CGVD-1928-78), AND ARE DERIVED FROM GEODETIC BENCHMARK 001196SU107 NEAR THE SOUTH-EAST CORNER OF ROSEDALE SCHOOL. ELEVATION = 110.298

LEGEND

□ CB	DENOTES CATCHBASIN
○ MH	DENOTES MANHOLE
• UP	DENOTES UTILITY POLE
• LP	DENOTES LIGHT POST
• WV	DENOTES WATER VALVE
• SIGN	DENOTES SIGNAL
DIA	DENOTES DIAMETER
MISC	DENOTES MISCELLANEOUS
— OC —	DENOTES OVERHEAD CABLE
— X —	DENOTES FENCE
○ (with dot)	DENOTES DECIDUOUS TREE



UPDATED
TOPOGRAPHICAL
INFORMATION

THE FIELD WORK SHOWN ON THIS SKETCH WAS COMPLETED ON JULY 20, 2023.

SEPTEMBER 5, 2023
DATE

ANDREW HANDSPIKER
 ONTARIO LAND SURVEYOR

CAUTION

(A) THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USED EXCEPT FOR THE PURPOSE INDICATED IN THE TITLE BLOCK.

(B) THIS SKETCH IS PROTECTED BY COPYRIGHT.

J.D. BARNES SURVEYING LIMITED
LAND INFORMATION SPECIALISTS
4318 PORTAGE ROAD - UNIT 2, NIAGARA FALLS, ON L2E 6A4
T: (905) 358-3693 F: (905) 358-6224 www.jdbarnes.com

DRAWN BY:	AC/SC	CHECKED BY:	AH	REFERENCE NO.:	17-16-705-01
FILE: G:\2017\17-16-705\01\Drawing\17-16-705-01_TPO SKETCH					

GENERAL NOTES
DRAWING NOTES AND INTERPRETATION:

- READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL DRAWINGS AND CONTRACT DOCUMENTS.
- THE DESIGN, DETAILING, CONSTRUCTION, AND SHORING SHALL CONFORM TO THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- DO NOT SCALE THE DRAWINGS.
- ALL DESIGN LOADS INDICATED ARE UNFACTORED UNLESS NOTED OTHERWISE.
- THE DESIGN AND CONSTRUCTION OF ALL WORK ON THIS PROJECT SHALL CONFORM TO THE CURRENT ONTARIO BUILDING CODE AND THE LATEST EDITIONS OF THE LISTED STANDARDS INCLUDING REVISIONS.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND REPORT TO THE ENGINEER ANY DISCREPANCIES OR CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE JOB BEFORE PROCEEDING WITH THE WORK.
- DESIGN LIVE LOADS SHOWN ON THE DRAWINGS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- IN CASE OF CONFLICT BETWEEN CODES, REFERENCE STANDARDS, DRAWINGS AND OTHER CONTRACT DOCUMENTS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION AND DIRECTION PRIOR TO ORDERING OR PROVIDING ANY MATERIALS OR LABOR. THE CONTRACTOR SHALL BID THE MOST STRINGENT REQUIREMENTS.

FOUNDATIONS:

- FOUNDATIONS HAVE BEEN DESIGNED FOR 150 kPa FOR (SLS) AND 225 kPa FOR (ULS) AS PER THE SOIL REPORT # 17HF044 PREPARED BY PEO MACCALLUM LTD. CONSULTING ENGINEERS. A SOIL ENGINEER SHALL VERIFY THE SOIL BEARING CAPACITIES UNDER THE FOOTINGS AND THE SUITABILITY OF THE SUBGRADE UNDER THE SLAB-ON-GRADE. IN ANY NON-COMFORMING CONDITIONS THE STRUCTURAL ENGINEER MUST BE IMMEDIATELY INFORMED.
- FOUND ALL FOOTINGS ON STRATA CAPABLE OF SUPPORTING THE ABOVE NOTED DESIGN BEARING PRESSURES. EXTERIOR FOOTINGS AND FOOTING EXPOSED TO FROST SHALL BE FOUNDED AT A MINIMUM DEPTH OF 1200MM(4'-0") BELOW FINISHED GRADE. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
- PROTECT SOIL ADJACENT AND BELOW ALL FOOTINGS FROM FREEZING.
- PROTECT FOOTINGS, FOUNDATION WALLS, AND SLAB-ON-GRADE AGAINST FREEZING DURING CONSTRUCTION TIME.
- DO NOT EXCEED A RISE OF 7 IN A RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS OR TRENCHES.
- FOOTINGS STEPS SHALL BE A MAXIMUM OF 600MM(24") HIGH AND A MINIMUM OF 1200MM(4'-0") APART.
- FOOTINGS AND PIERS SHALL BE CENTERED UNDER CENTROID OF COLUMNS UNLESS NOTED OTHERWISE.
- DO NOT BACKFILL AGAINST WALLS BELOW GRADE UNTIL ALL LATEROALLY SUPPORTING ELEMENTS ARE PROPERLY INSTALLED AND THE SLAB-ON-GRADE IS CAST AND CONCRETE ATTAINED ITS 28-DAY DESIGN COMPRESSIVE STRENGTH. FOR OTHER WALLS BELOW GRADE BACKFILL AND COMPACT SIMULTANEOUSLY ON BOTH SIDES OF THE WALL.

CAST-IN-PLACE-CONCRETE:

- ALL CONCRETE SHALL BE DESIGNED TO COMPLY WITH THE LATEST EDITION OF CAN/CSA A23.3
- THE CONSTRUCTION OF CONCRETE SHALL COMPLY WITH THE LATEST EDITION OF CAN/CSA A23.1 AND A23.2.
- THE 28-DAY CONCRETE COMPRESSIVE STRENGTH, f'c, SHALL BE AS INDICATED IN THE FOLLOWING TABLE:

	28-DAY STRENGTH (MPa)	EXPOSURE CLASSIFICATION	SLUMP AT DELIVERY (MM)	AIR ENTRAINMENT (%)
FOOTINGS & INTERIOR FOUNDATION WALLS	25	N	75(+/-) 25	--
INTERIOR SLAB ON GRADE	25	N	50(+/-) 25 (NOTE 1)	--
EXTERIOR FOUNDATION WALLS, WALLS, & COLUMNS	25	F-2	75(+/-) 25	5-8
EXTERIOR SLABS & SIDEWALKS	32	C-2	75(+/-) 25	5-8
MASONRY CELLS FILLING GROUT	15	--	PER CSA A179	--
NON-SHRINK BEARING GROUT	35	--	--	--

NOTES:

- THIS SLUMP IS BEFORE ADDITION OF SUPERPLASTICIZER. IF SUPERPLASTICIZER IS USED, SLUMP SHALL BE (150+/-25MM).
 - THE MINIMUM CONCRETE COVER IN (MM) TO THE REINFORCING BARS SHALL BE AS INDICATED IN THE FOLLOWING TABLE UNLESS AS NOTED IN SENTENCES 3.5 AND 3.6
- | | EXPOSURE CLASSES N, F1, AND F2 | EXPOSURE CLASSES C1, AND C3 |
|-------------|---|--------------------------------------|
| FOOTINGS | 75 TO BOTTOM BARS AND 50 TO TOP BARS | 75 TO BOTTOM BARS AND 60 TO TOP BARS |
| PIERS | 50 | 60 |
| GRADE BEAMS | 50 | 60 |
| WALLS | 40 TO EXTERIOR SURFACE AND 20 TO INTERIOR SURFACE | 60 |
| SLABS | 40 TO EXTERIOR SURFACE AND 25 TO INTERIOR SURFACE | 60 |
- THE MINIMUM CONCRETE COVER SHALL BE EQUAL TO THE REINFORCING BAR DIAMETER FOR EXPOSURE CLASS N; 1.5 TIMES THE BAR DIAMETER FOR CLASSES F1 AND F2; AND 2 TIMES THE BAR DIAMETER FOR CLASSES C1 AND C3.
 - IF CONCRETE IS CAST AGAINST EARTH, THE MINIMUM CONCRETE COVER SHALL BE 75MM.
 - REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.18, GRADE 400W AND 400R, AND SHALL BE DEFORMED BAR UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL SHALL BE DESIGNED IN COMPLIANCE WITH THE REQUIREMENTS OF CSA S16 (LATEST EDITION).
- ALL STRUCTURAL STEEL SAMPLES EXCEPT FOR HSS SHALL CONFORM TO CSA G40.21.
- ALL SQUARE HSS SHALL CONFORM TO G40.21 OR ASTM A500 CLASS (C).
- ALL ROUND HSS SHALL CONFORM TO ASTM A500 CLASS (C).
- ALL WELDING SHALL CONFORM TO THE LATEST EDITIONS OF CSA W59 AND W47.1.
- ALL STEEL SHALL BE SHOP PRIMED IN CONFORMANCE WITH CISC STANDARDS 1-73A AND 2-75, EXCEPT FOR INTERIOR STEEL THAT WILL BE SPRAYED WITH FIRE RESISTIVE MATERIAL.
- DO NOT CUT OPENINGS IN THE STRUCTURAL STEEL WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL PROVIDE AND REMOVE AFTERWARDS PROPER TEMPORARY BRACING TO KEEP THE STRUCTURE TRUE AND PLUMB DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BOLTS SHALL BE A MINIMUM 3/4" DIAMETER AND CONFORM TO ASTM A325.
- ALL CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE DESIGN OF SHEAR CONNECTIONS SHALL BE FOR THE GREATER OF:
 - 50% OF THE FACTORED SHEAR CAPACITY OF THE BEAM,
 - THE BEAM REACTION CALCULATED USING THE LOADS INDICATED ON THE DRAWINGS, AND
 - THE REACTION INDICATED ON THE DRAWINGS.
- ALL CONNECTIONS FOR THE BRACING MEMBERS SHALL BE DESIGNED FOR THE FULL TENSILE CAPACITY OF THE MEMBER UNLESS FORCES ARE INDICATED ON THE DRAWINGS.
- OPEN WEB STEEL JOISTS SHALL BE FASTENED TO SUPPORTING MEMBERS FOR THE LOADS SHOWN ON THE DRAWINGS INCLUDING WIND UPLIFT.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING LAYOUTS, SIZES, MATERIAL AND CONNECTION DETAILS. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER PRACTICING IN ONTARIO.
- ALL STEEL EXPOSED TO THE WEATHER INCLUDING SHELF ANGLES AND THEIR SUPPORTING EMBEDDED PLATES SHALL BE HOT DIPPED GALVANIZED IN CONFORMANCE WITH CSA G164-M92.

MASONRY:

- MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF:
 - C.S.A. S304.1- DESIGN OF MASONRY STRUCTURES
 - C.S.A. S371- MASONRY CONSTRUCTION FOR BUILDINGS
 - C.S.A. A165 SERIES- CSA STANDARDS FOR CONCRETE MASONRY UNITS
 - C.S.A. A179- MORTAR AND GROUT FOR UNIT MASONRY
- ALL CONCRETE BLOCK SHALL HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 15 MPa.
- UNLESS NOTES OTHERWISE, MORTAR SHALL BE TYPE S.
- UNLESS NOTES OTHERWISE, PROVIDE 600MM (24") OF GROUTED CELLS FOR THE THREE COURSES OF MASONRY UNDER BEARING PLATES FOR STEEL BEAMS.
- PROVIDE LATERAL RESTRAINT AT THE TOP OF ALL NON-LOAD BEARING PARTITIONS.
- PROVIDE CONTROL JOINTS EVERY 6M(20') AND AT ALL DISCONTINUITIES AND OPENINGS AND AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- UNLESS NOTES OTHERWISE, PROVIDE 4.8MM(3/16") BAR DIAMETER GALVANIZED LADDER TYPE BED JOINT REINFORCING IN EVERY SECOND COURSE.
- UNLESS NOTES OTHERWISE, PROVIDE A BOND BEAM AT THE TOP OF ALL REINFORCED WITH 2-15M CONTINUOUS REBARS.
- UNLESS NOTES OTHERWISE, PROVIDE 1-15M EVERY FOURTH CELL VERTICAL REINFORCEMENT IN ALL WALLS.
- PROVIDE REINFORCING DOWELS INTO CONCRETE FOOTINGS AND WALLS TO MATCH VERTICAL REINFORCING IN THE BLOCK WALLS. LAP SPLICE ALL REINFORCING AS FOLLOWING:
 - 10M 600MM(24")
 - 15M 750MM(30")
 - 20M 950MM(38")
 - 25M 1100MM(44")
- PROVIDE ADDITIONAL REINFORCING TO MATCH WALL REINFORCING AT ALL CORNERS, OPENINGS AND IN THE GROUTED CELLS UNDER ALL BEARING PLATES AND LINTELS.
- PROVIDE AND INSTALL LINTELS OVER ALL OPENINGS IN ACCORDANCE WITH THE TYPICAL LINTEL SCHEDULE OR AS SHOWN ON THE DRAWING.

STEEL LINTELS IN NON-LOAD BEARING WALLS:

WALL THICKNESS	SPAN (MM)	LINTEL SIZE (MM)	DETAILS
90 MM (3-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000	L90X90X6 L127X90X6 L127X90X8 L150X90X9.5	--- LLV LLV LLV
140 MM (5-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400	2-L64X64X6 2-L90X64X6 2-L90X64X8 W/100X10 PLATE	BACK TO BACK BACK TO BACK, LLV BACK TO BACK, LLV, PLATE WELDED TO U/S OF HORIZONTAL LEGS
190 MM (7-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000	2-L75X90X6 2-L90X90X6 2-L100X90X8 2-L150X90X8	BACK T BACK, (LLH) BACK TO BACK, BACK TO BACK, LLV BACK TO BACK, LLV
240 MM (9-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000	2-L75X100X6 2-L100X100X6 2-L100X100X9.5 2-L150X100X8	BACK T BACK, (LLH) BACK TO BACK, BACK TO BACK BACK TO BACK, LLV
290 MM (11-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000	3-L75X90X6 3-L90X90X6 3-L100X90X8 3-L127X90X8	INVERTED DOUBLE (T) WITH 90 LEGS HORIZONTAL

NOTES:

- STITCH WELD BACK TO BACK ANGLES USING 6MM WELD, 50 MM LONG SPACED AT 450MM MAX. OR CONNECT USING 16MM BOLTS AT 450 MM MAX. WITH THE FIRST BOLT LOCATED AT 75 MM FROM THE END OF THE LINTEL
- ENSURE EVEN BEARING OF STEEL LINTELS BY PROVIDING STEEL PACKING AS REQUIRED.
- FOR LARGER OPENINGS AND FOR OPENINGS IN LOAD BEARING WALLS, SEE PLANS FOR LINTEL SIZES.

STEEL DECK:

- THE MATERIAL, DESIGN, FABRICATION, HANDLING, AND STORAGE OF STEEL DECK SHALL CONFORM TO CAN/CSA-S136 AND THE CANADIAN SHEET STEEL BUILDING INSTITUTION (CSSBI) APPLICABLE STANDARD.
- WHERE POSSIBLE, PROVIDE CONTINUOUS DECK OVER A MINIMUM OF THREE SPANS.
- UNLESS NOTED OTHERWISE, FASTEN DECK TO STEEL SUPPORTS USING 19MM (3/4") DIA RIVULET WELDS EVERY 2ND FLUTE AND EVERY 600mm (24") ALONG SIDES, AND BUTTUN PUNCH SIDE LAPS EVERY 600mm (24").
- UNLESS NOTED OTHERWISE, PROVIDE L75X75X6 ANGLES TO SUPPORT THE EDGES OF DECK. FASTEN THE ANGLES TO THE SUPPORTING ELEMENTS AS SHOWN ON THE DRAWINGS.
- REINFORCE OPENINGS IN STEEL DECK AS FOLLOWING:
 - DO NOT REINFORCE OPENING UP TO 150MM (6").
 - OPENINGS UP TO 500MM (20"). WELD L75X75X6 TO UNDERSIDE OF DECK ON ALL SIDES. EXTEND THE ANGLES PERPENDICULAR TO FLUTE FOR A LENGTH OF TWO UNCLT FLUTES.
 - OPENING LARGER THAN 500MM (20"). REFER TO PLANS FOR REINFORCING.
- PROVIDE A MINIMUM OVERLAP AND BEARING LENGTH OF 50mm (2") ON ALL STRUCTURAL STEEL SUPPORTS.
- WELDED AREAS SHALL BE TOUCH-UP PAINTED BY THE CONTRACTOR WITH APPROVED PAINT.
- METAL DECK SHALL BE GALVANIZED STRUCTURAL STEEL SHEET FABRICATED AND ERECTED IN ACCORDANCE WITH CSSBI 10M-96 AND CAN3-S136.
- CONTRACTOR SHALL PROTECT STEEL DECKS FROM DAMAGE DURING SHIPPING, STORAGE, AND ERECTION. ANY PUNCTURED, DENTED OR WELD PERFORATED DECK SHALL BE REPLACED BY THE CONTRACTOR.

DESIGN LOADS:

DEAD LOAD:

ROOF: 1.0 kPa

LIVE LOAD:

SLAB ON GRADE: 4.8kPa
 ROOFS: 1.0 kPa

SNOW:

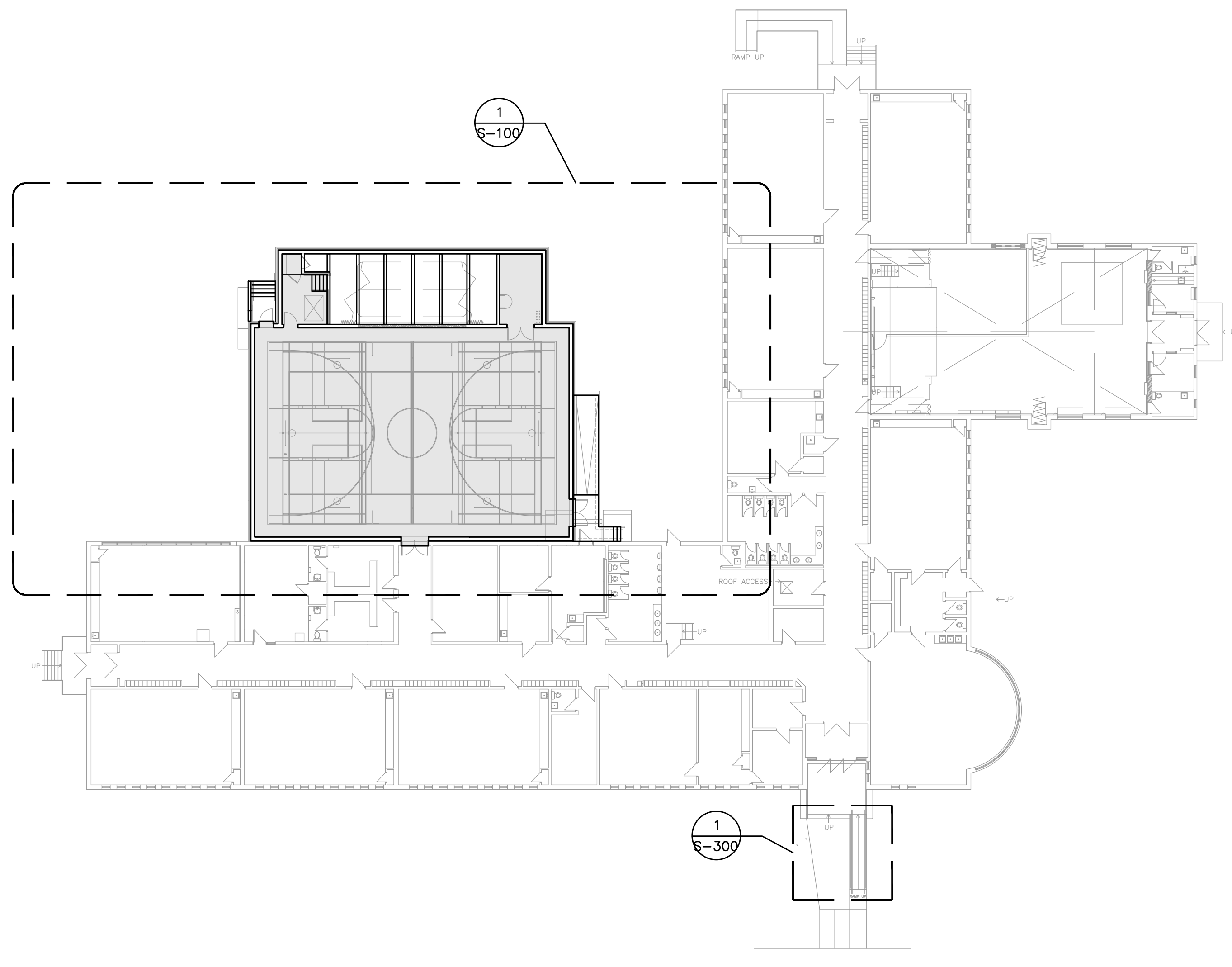
DETERMINED IN ACCORDANCE WITH THE 2012 OBC USING THE FOLLOWING PARAMETERS:
 Ss= 1.1 kPa, Sr=0.4kPa, Is=1.15 (ULS) AND 0.9 FOR (SLS).
 SNOW ACCUMULATION AND DRIFT AS PER THE PLANS.

WIND LOADS:

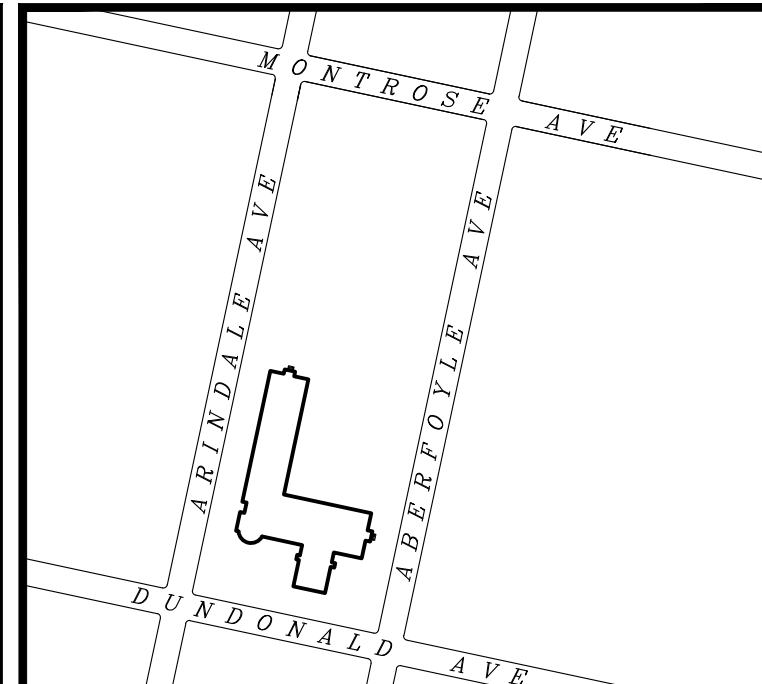
DETERMINED IN ACCORDANCE WITH THE 2012 OBC USING THE FOLLOWING PARAMETERS:
 q50= 0.46 kPa, AND q10=0.36 kPa, Iw=1.15 (ULS) AND 0.75 FOR (SLS).
 SPECIFIED ROOF WIND UPLIFT: -1.2kPa

SEISMIC:

DETERMINED IN ACCORDANCE WITH THE 2012 OBC USING THE MAXIMUM BASE SHEAR AS PER ARTICLE 4.1.8.11 (C) OF THE OBC,
 SITE CLASSIFICATION "C", Rsd=1.5, R0=1.5, Ie=1.3,
 SEISMIC HAZARD INDEX, Ie.Fa.Sa(0.2) IS CALCULATED TO BE 0.416, WHICH IS GREATER THAN 0.35. THEREFORE, ALL NON-STRUCTURAL COMPONENTS AND EQUIPMENT AND THEIR CONNECTIONS NEED TO BE DESIGNED FOR THE FORCES INDICATED IN ARTICLE 4.1.8.18 OF THE 2012 OBC.



LOCATION PLAN
 SCALE: 1:250



KEY PLAN
 SCALE NTS

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A 19/12/23	ISSUED FOR CLIENT REVIEW	S.S.

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CLIENT

HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

AILMAR ENGINEERING INC.
 STRUCTURAL ENGINEERS

94 CURRAN RD.
 ANCASTER, ON L9K 0H4
 PHONE: (905) 966-4797



PROJECT

**Addition to
 HWDSB Rosedale
 Elementary School**

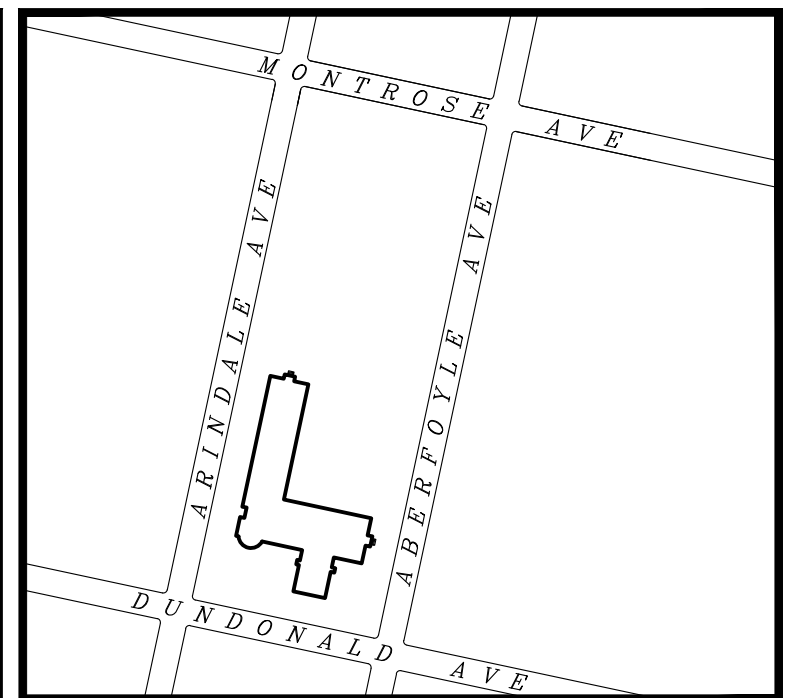
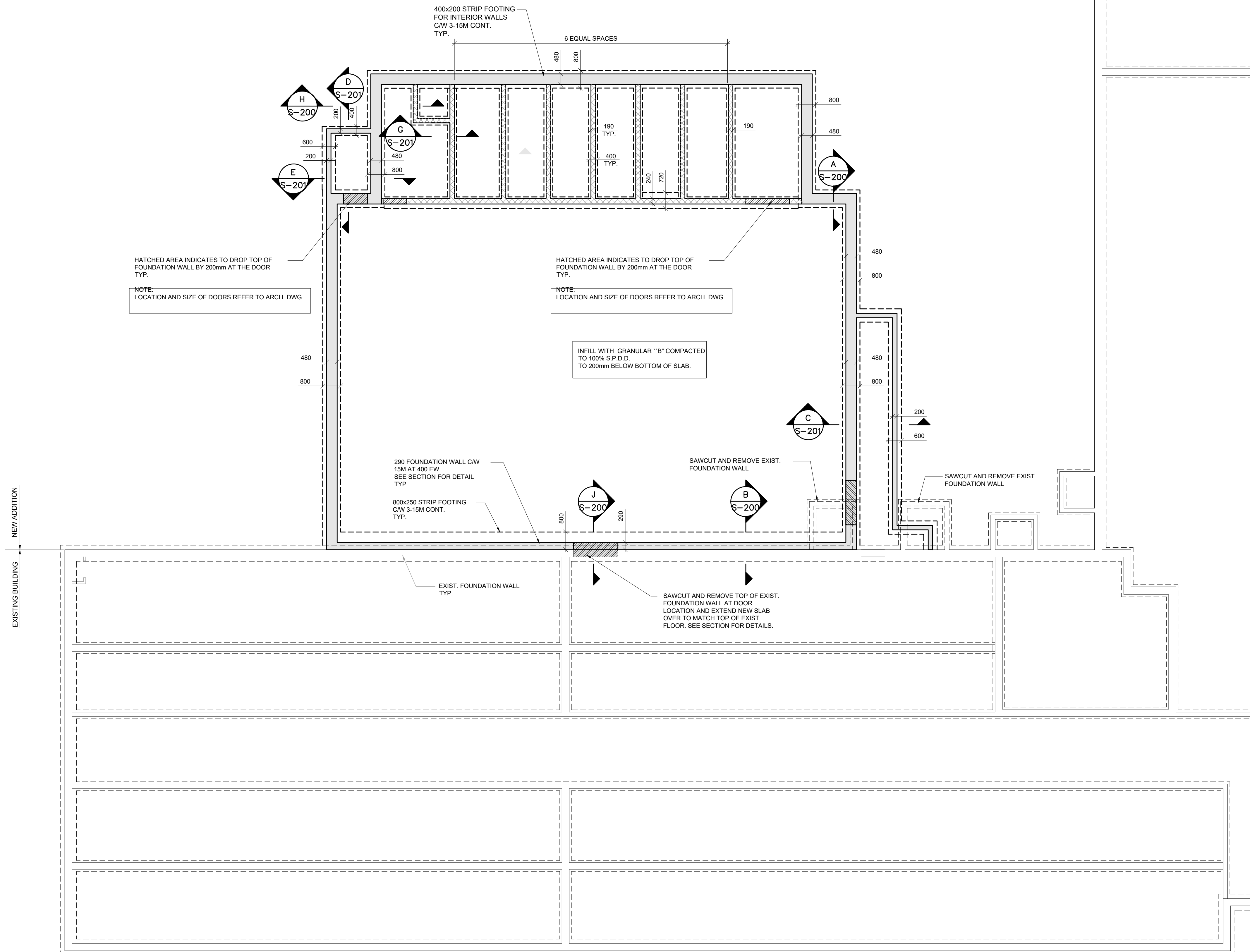
25 Erindale Ave.,
 Hamilton, Ontario L8N 3L1

DRAWING TITLE:
**GENERAL NOTES AND
 LOCATION PLAN**

DESIGNED:	S.S.
DRAWN:	S.K.
CHECKED:	S.S.
SCALE:	AS NOTED
PLOT DATE:	FEB. 2024
FILE NAME:	

PROJECT NUMBER: **12033**

DRAWING NUMBER: **S-00**



KEY PLAN
SCALE NTS

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A 19/12/23	ISSUED FOR CLIENT REVIEW	S.S.

#	DATE	DESCRIPTION	BY
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PROJECT
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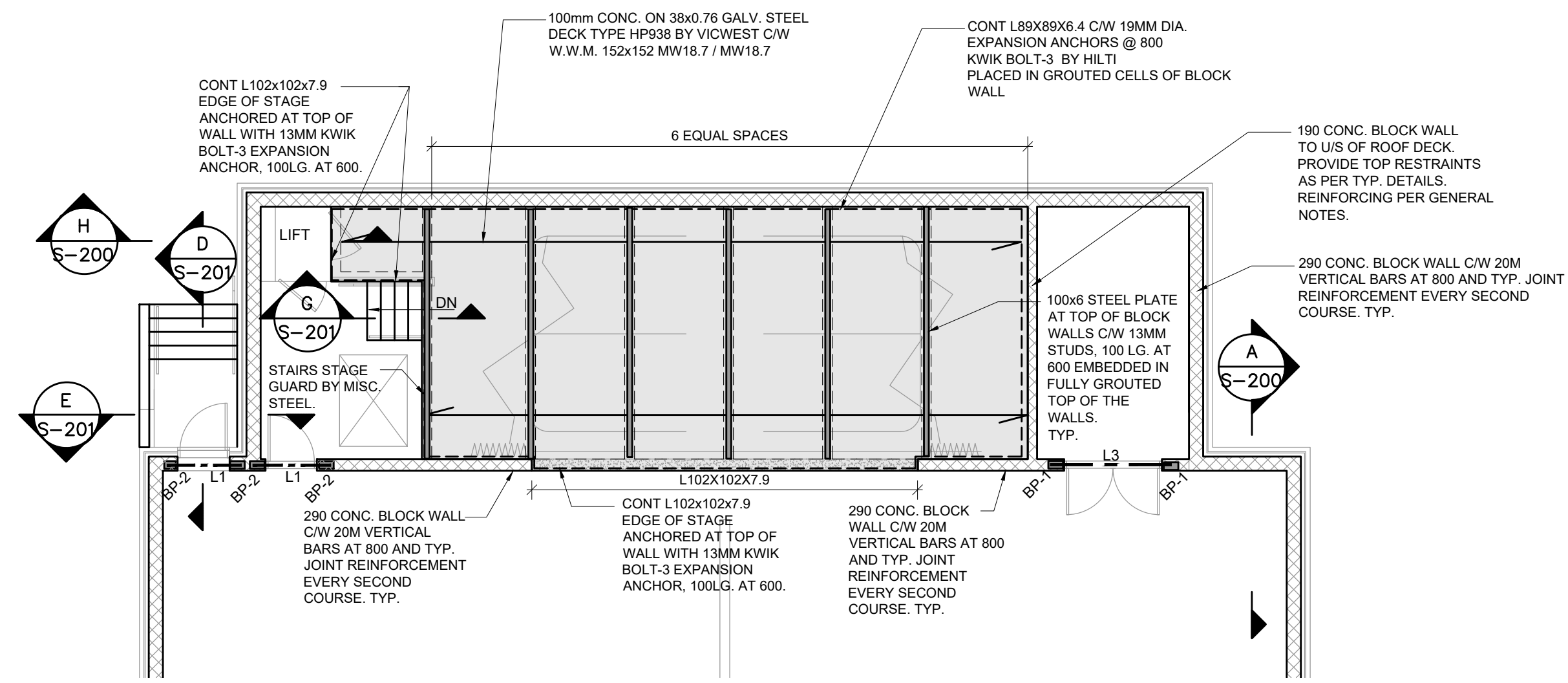
25 Erindale Ave.,
Hamilton, Ontario L8N 3L1

DRAWING TITLE:
FOUNDATION PLAN

DESIGNED:	S.S.
DRAWN:	S.K.
CHECKED:	S.S.
SCALE:	AS NOTED
PLOT DATE:	FEB. 2024
FILE NAME:	

PROJECT NUMBER: 12033

DRAWING NUMBER: **S-100**



1 STAGE FRAMING PLAN
SCALE: 1:100

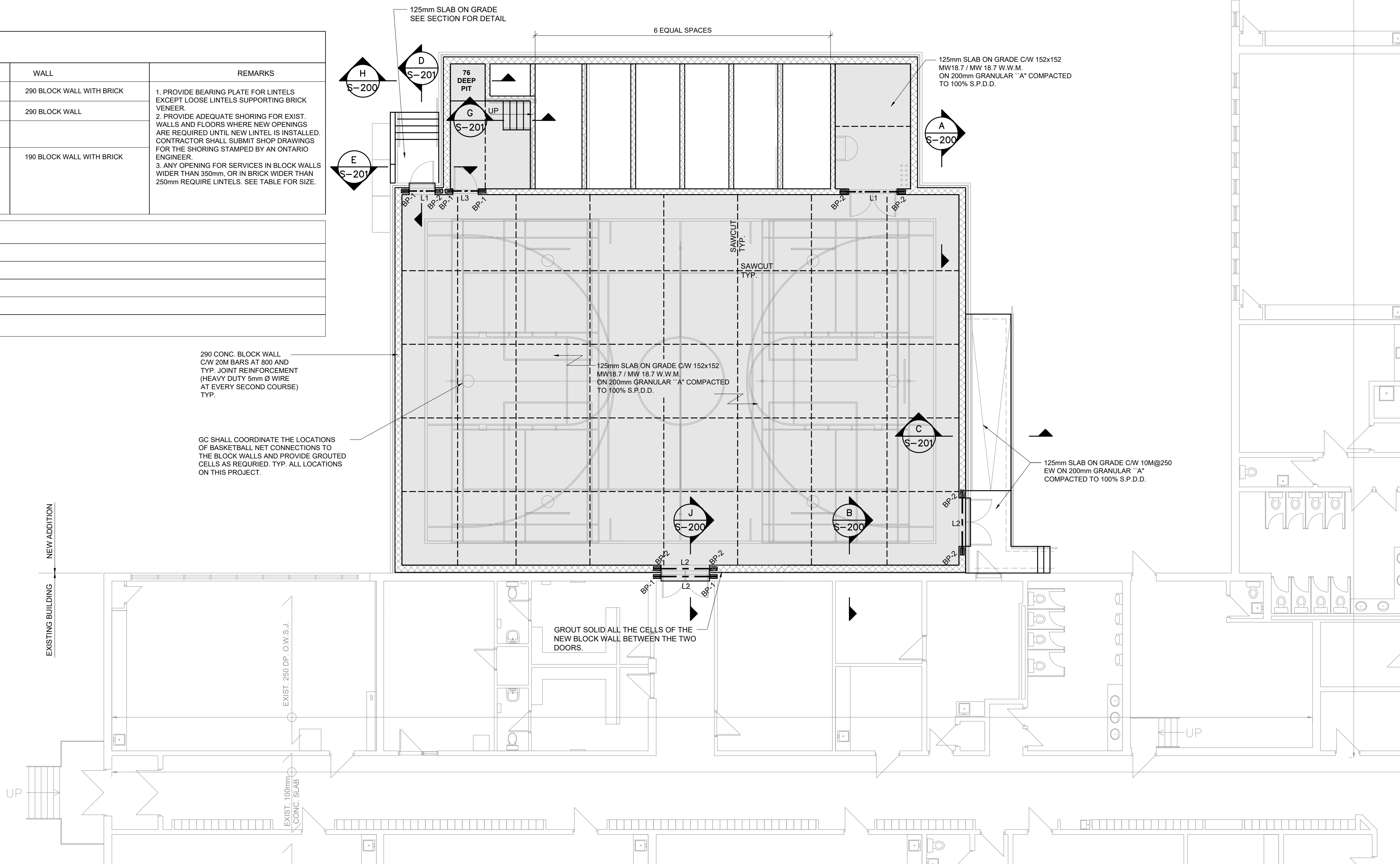
NOTE:
CONTRACTOR SHALL PROVIDE TEMPORARY LATERAL BRACES FOR WALLS UNTIL ROOF DECK IS INSTALLED AND FASTENED IN PLACE
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR TEMPORARY BRACES STAMPED BY ENGINEER

LINTEL SCHEDULE			
MARK	SIZE	WALL	REMARKS
L1	W200x36 C/W 8mm BOTTOM PLATE TO MATCH WIDTH OF WALL ABOVE AND 5mm STIFFENER PLATES AT 600	290 BLOCK WALL WITH BRICK	1. PROVIDE BEARING PLATE FOR LINTELS EXCEPT LOOSE LINTELS SUPPORTING BRICK VENEER 2. PROVIDE ADEQUATE SHORING FOR EXIST. WALLS AND FLOORS WHERE NEW OPENINGS ARE REQUIRED UNTIL NEW LINTEL IS INSTALLED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE SHORING STAMPED BY AN ONTARIO ENGINEER 3. ANY OPENING FOR SERVICES IN BLOCK WALLS WIDER THAN 350mm, OR IN BRICK WIDER THAN 250mm REQUIRE LINTELS. SEE TABLE FOR SIZE.
L2	W200x36 C/W 8mm BOTTOM PLATE TO MATCH WIDTH OF WALL ABOVE	290 BLOCK WALL	
L3	SEE TABLE ON S-00		
L4	W150 x 13	190 BLOCK WALL WITH BRICK	

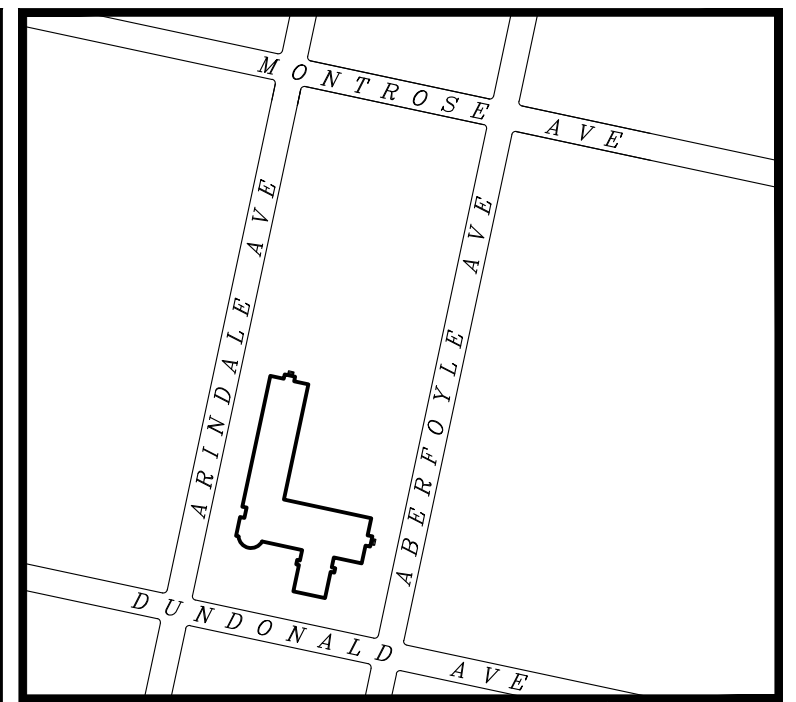
BEARING PLATE SCHEDULE			
MARK	SIZE		
BP-1	175x300x10 C/W 2-13mm DIA. ANCHORS 200LG		
BP-2	275x300x13 C/W 2-13mm DIA. ANCHORS 200LG		
BP-3	150x200x13 C/W 2-10M ANCHORS 200LG		
BP-4	300x240x16 C/W 2-16M ANCHORS 200LG		

290 CONC. BLOCK WALL
C/W 20M BARS AT 800 AND
TYP. JOINT REINFORCEMENT
(HEAVY DUTY 5mm Ø WIRE
AT EVERY SECOND COURSE)
TYP.

GC SHALL COORDINATE THE LOCATIONS
OF BASKETBALL NET CONNECTIONS TO
THE BLOCK WALLS AND PROVIDE GROUDED
CELLS AS REQUIRED. TYP. ALL LOCATIONS
ON THIS PROJECT.



2 SLAB ON GRADE PLAN
SCALE: 1:100



KEY PLAN
SCALE NTS

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CLIENT



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PROJECT
Addition to
**HWDSB Rosedale
Elementary School**
25 Erindale Ave.,
Hamilton, Ontario L8N 3L1

DRAWING TITLE:
SLAB ON GRADE PLAN

DESIGNED:	S.S.
DRAWN:	S.K.
CHECKED:	S.S.
SCALE:	AS NOTED
PLOT DATE:	FEB. 2024
FILE NAME:	

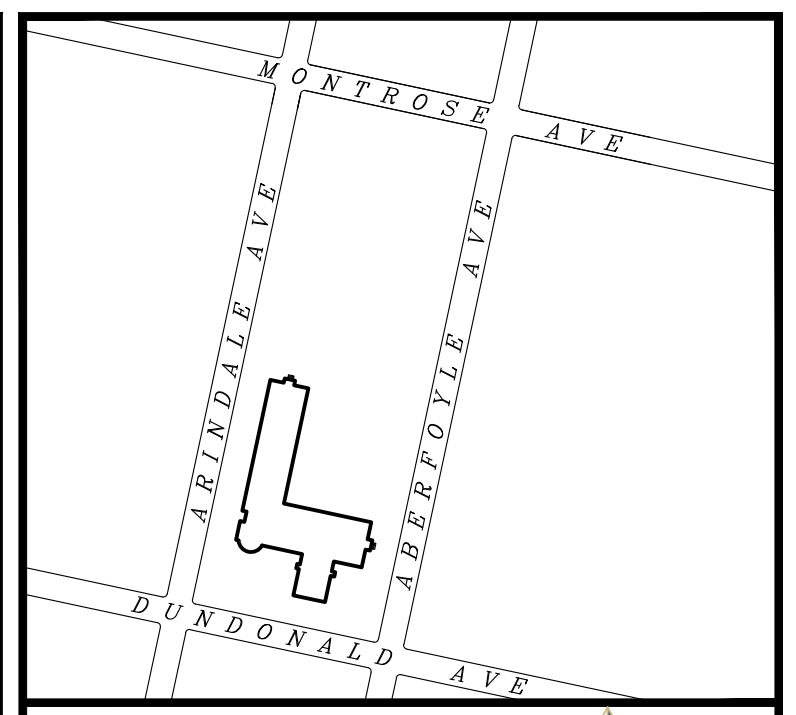
PROJECT NUMBER: 12033

DRAWING NUMBER: S-101

MECHANICAL ROOF TOP UNITS		
MARK	SIZE	WEIGHT
PU1	2.24mx1.45mx1.75m(88"x53"x69"H)	637KG (1400Lbs) MAX.
PU2	2.24mx1.45mx1.75m(88"x53"x69"H)	637KG (1400Lbs) MAX.

3.00 kPa
1.47 kPa
3.0M
TYP. SNOW ACCUMULATION AROUND ALL ROOF TOP UNITS.

NOTE:
SEE TYP. DETAILS FOR STEEL FRAMING FOR ROOF TOP UNITS, EXHAUST FANS, AND ROOF OPENINGS.
REFER TO MECH. DRAWINGS FOR EXACT LOCATIONS OF UNITS AND OPENINGS.



KEY PLAN
SCALE NTS

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DATE	DESCRIPTION	BY

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PROJECT

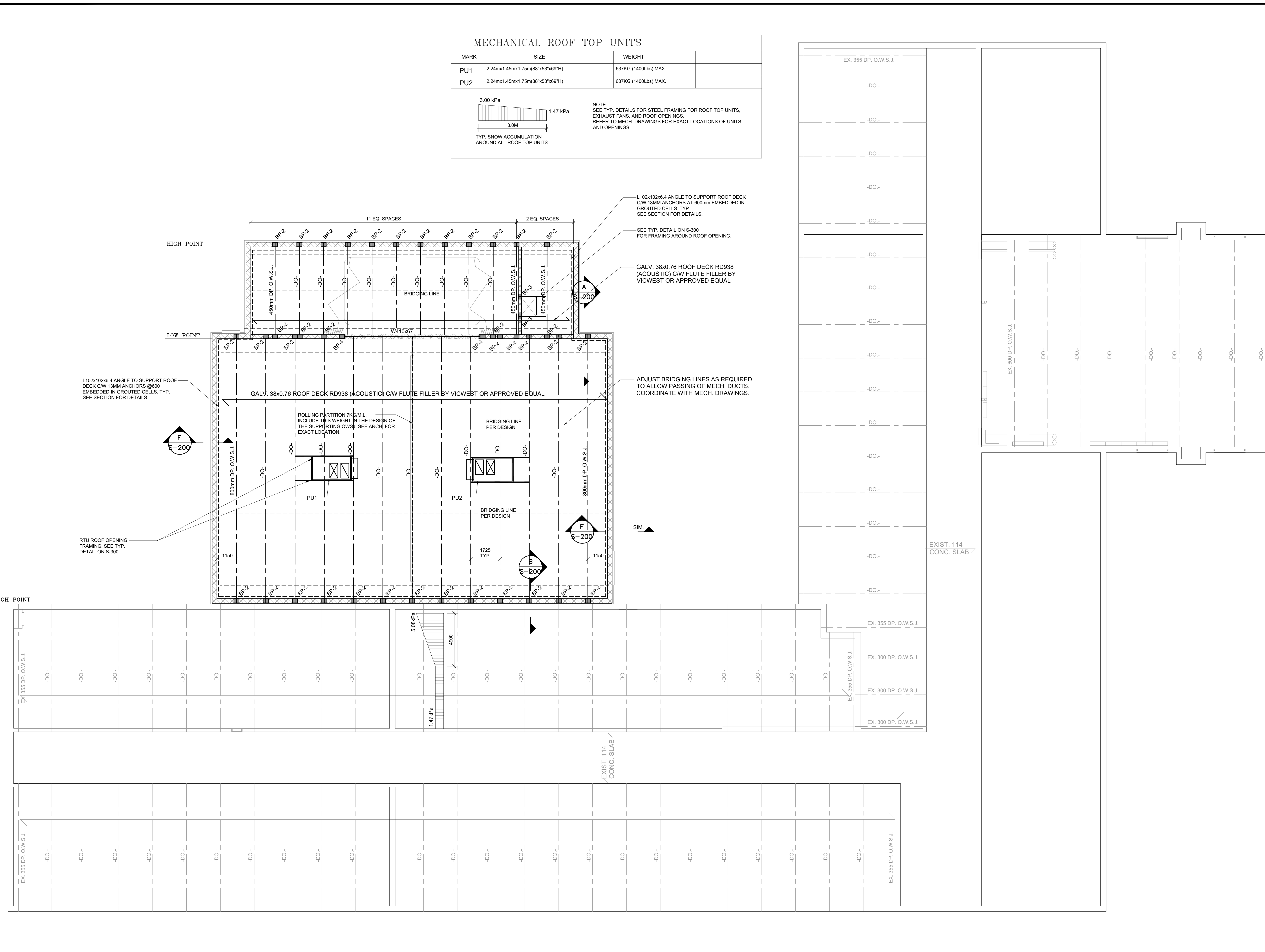
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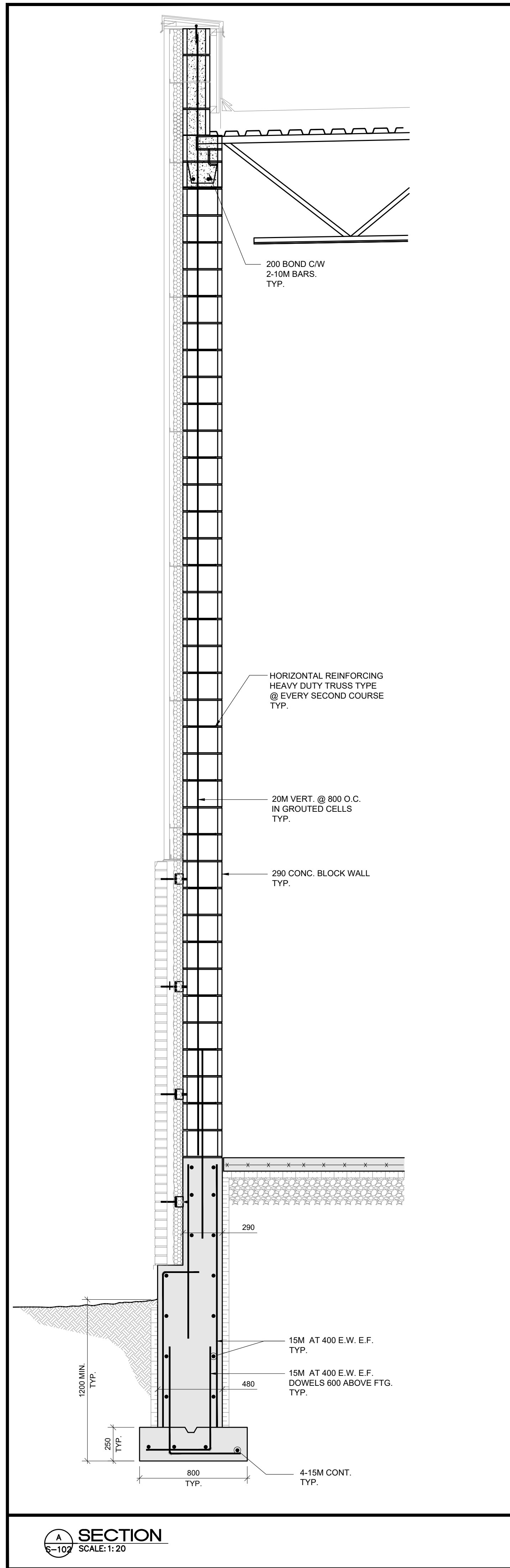
25 Erindale Ave.,
Hamilton, Ontario L8N 3L1

DRAWING TITLE:
ROOF FRAMING PLANS

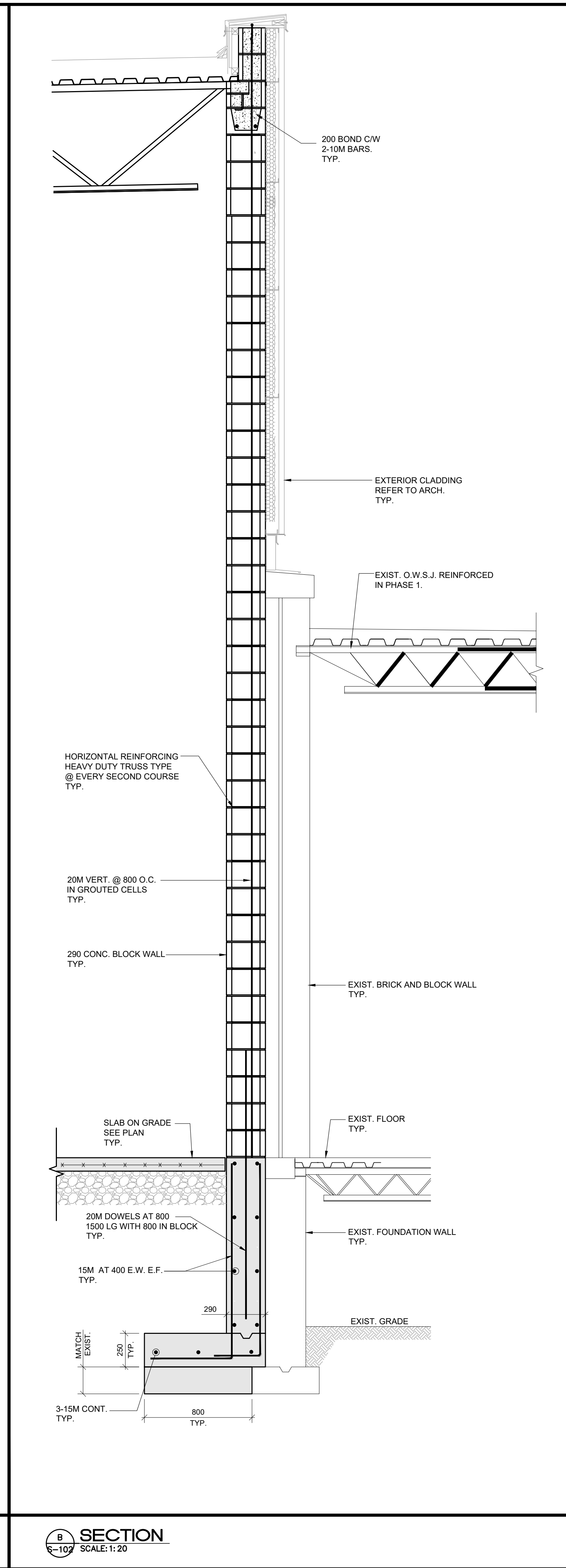
DESIGNED:	S.S.
DRAWN:	S.K.
CHECKED:	S.S.
SCALE:	AS NOTED
PLOT DATE:	FEB. 2024
FILE NAME:	
PROJECT NUMBER:	12033

DRAWING NUMBER: **S-102**

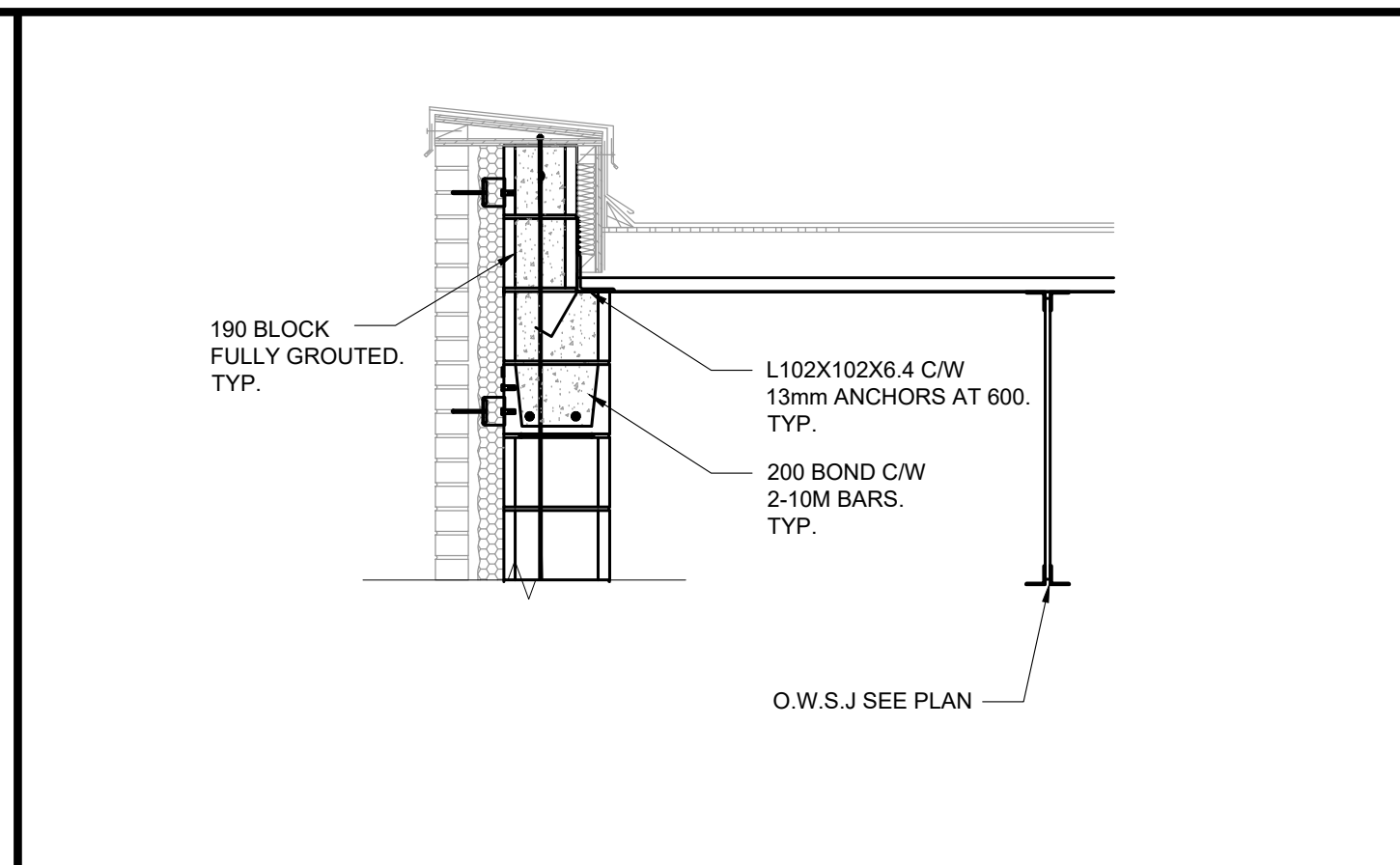




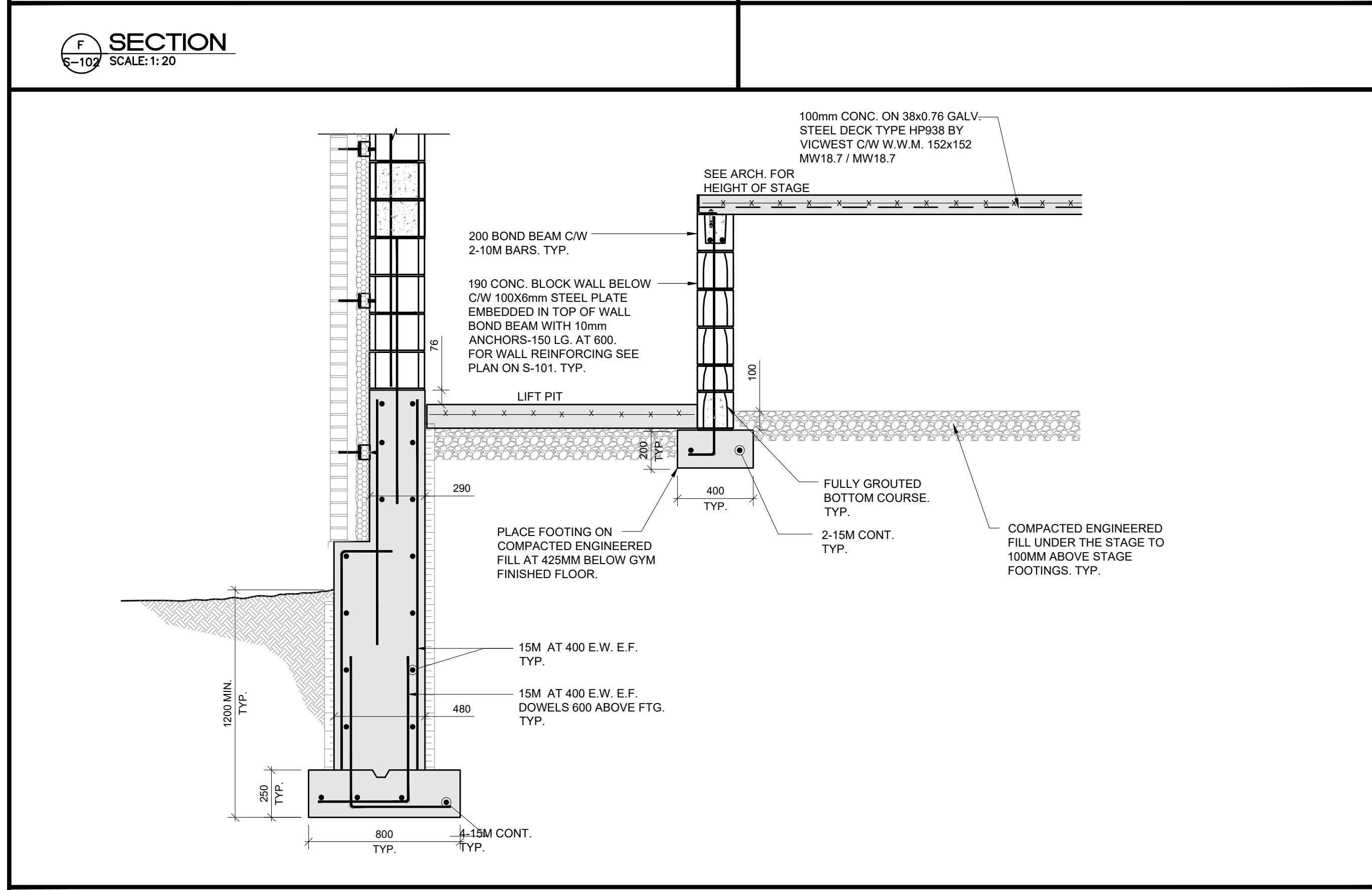
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SCALE: 1:20



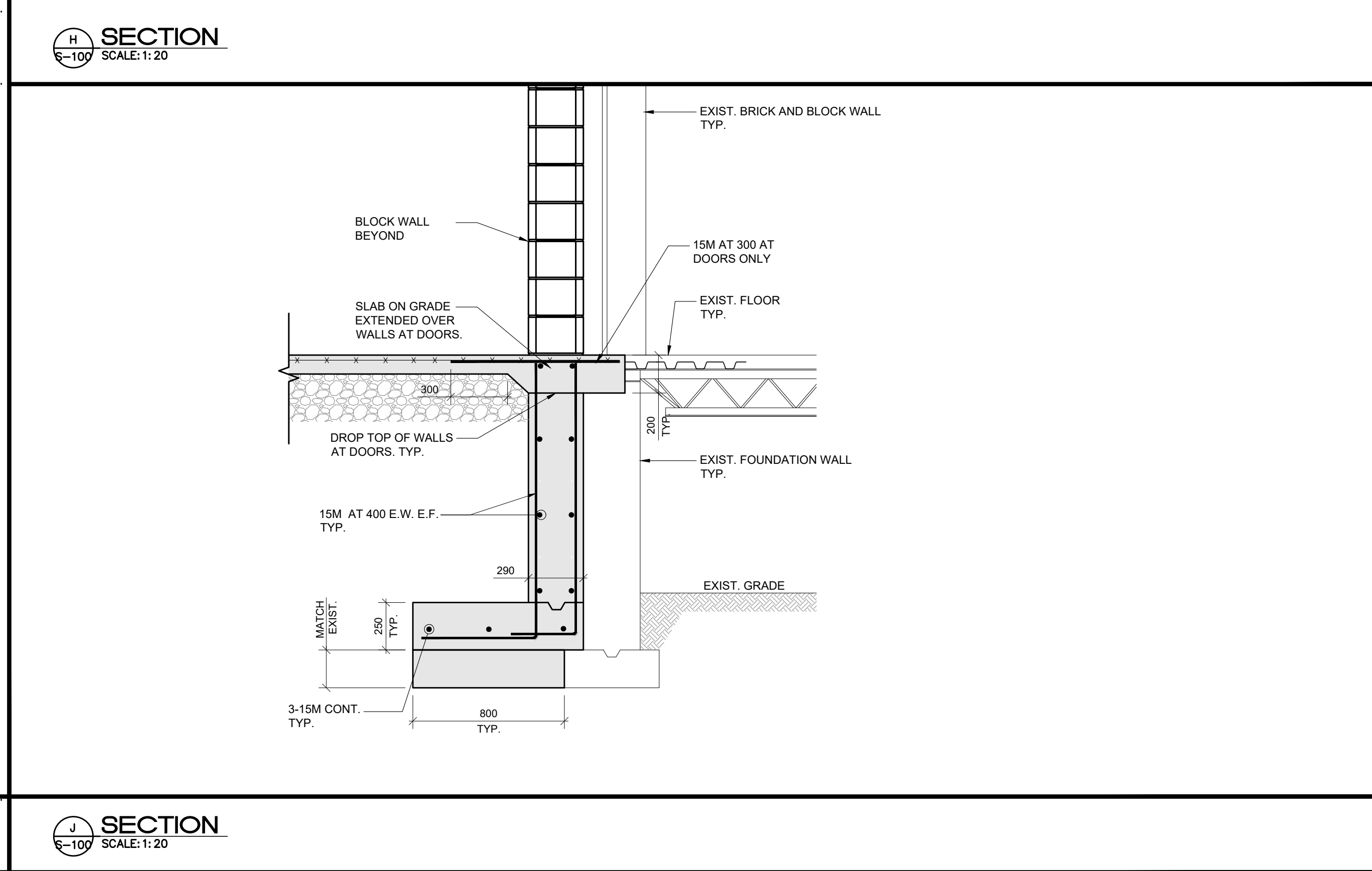
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SCALE: 1:20



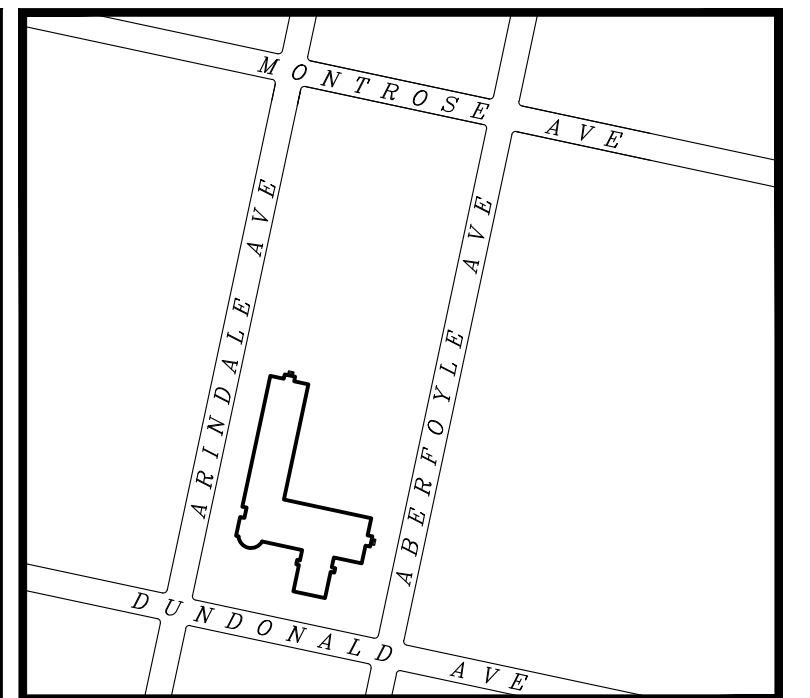
F SECTION
SCALE: 1:20



H SECTION
SCALE: 1:20



J SECTION
SCALE: 1:20



KEY PLAN
SCALE: NTS

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ISSUES & REVISIONS

CLIENT



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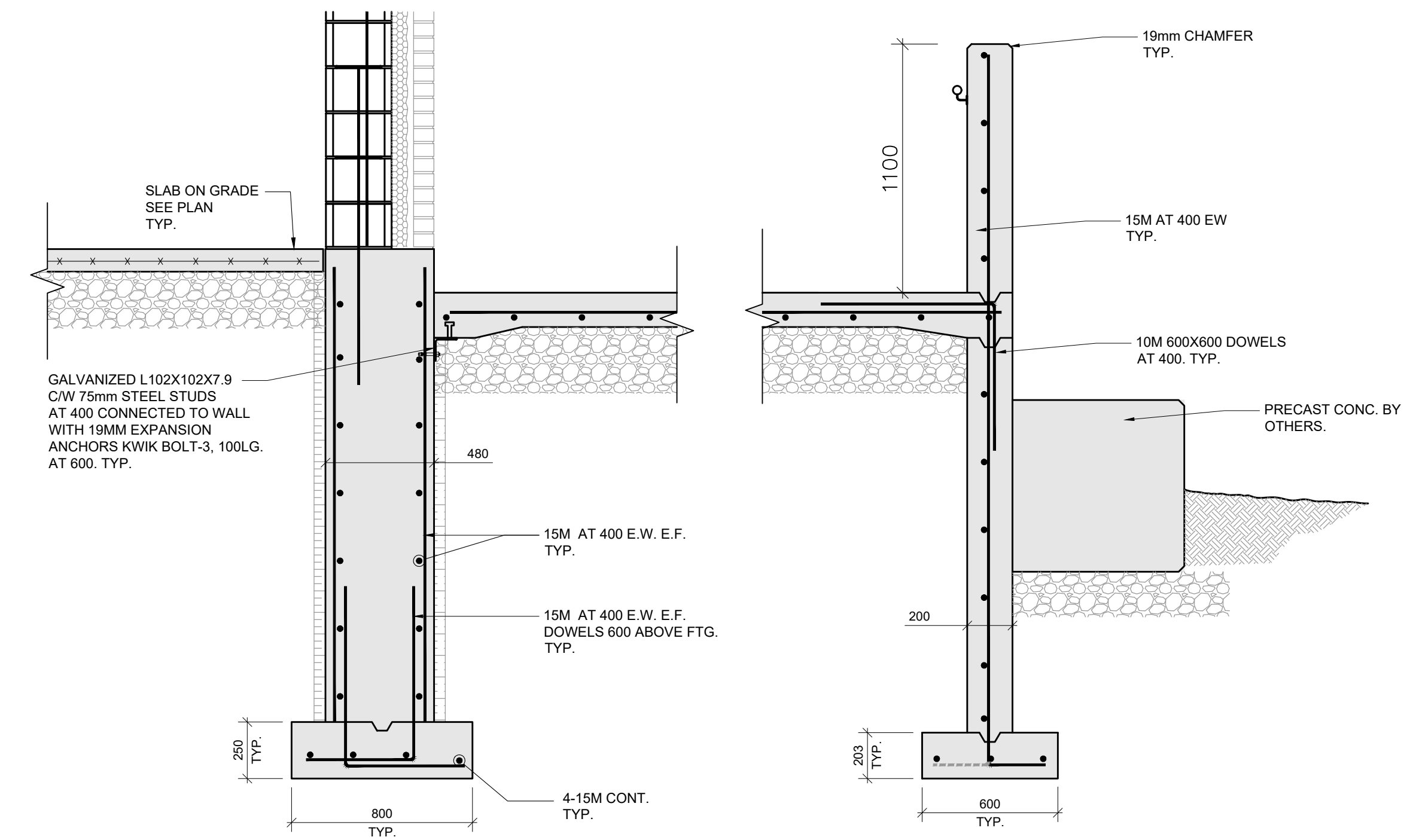
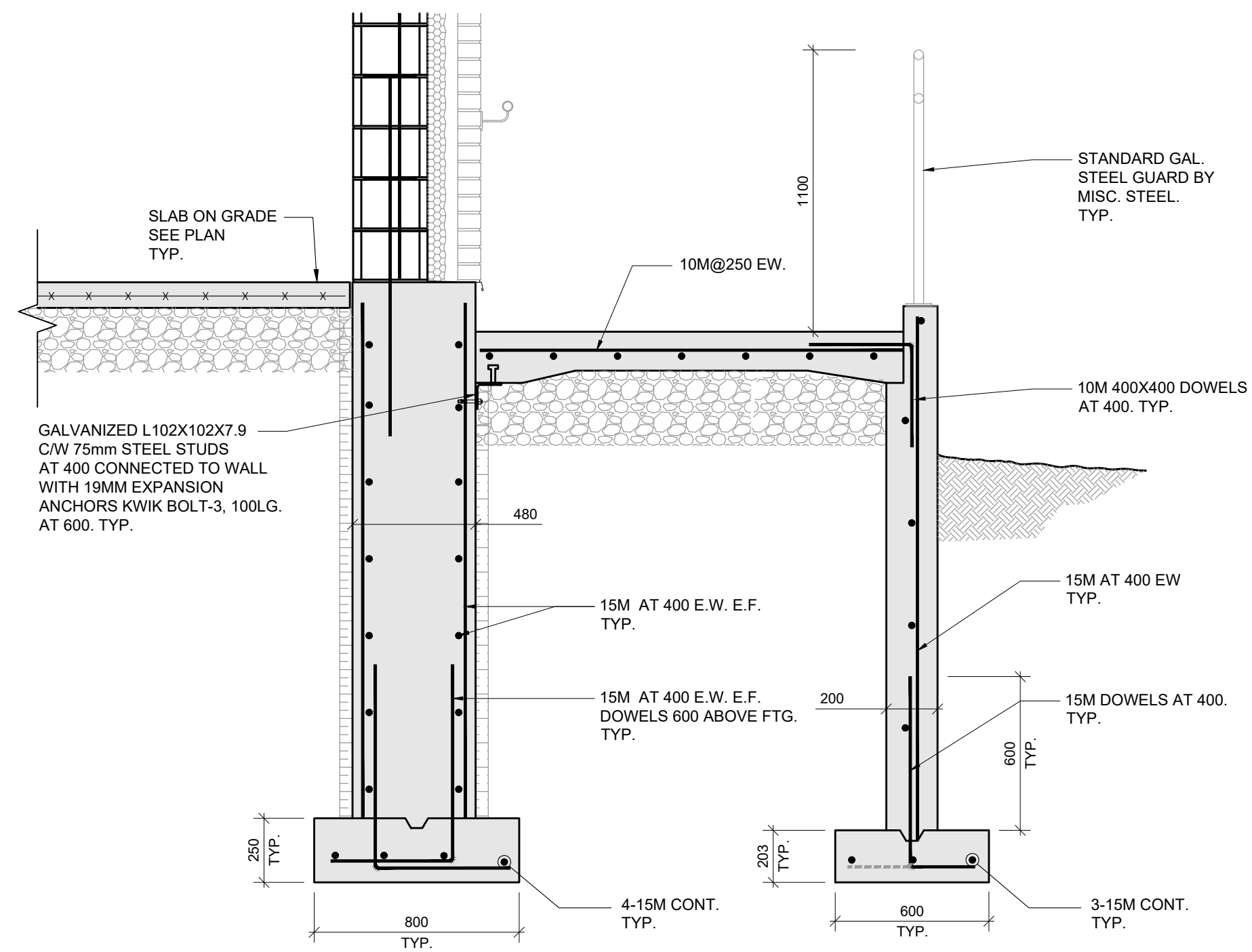
PROJECT
**Addition to
HWDSB Rosedale
Elementary School**
25 Erindale Ave.,
Hamilton, Ontario L8N 3L1

DRAWING TITLE:
SECTIONS

DESIGNED:	S.S.
DRAWN:	S.K.
CHECKED:	S.S.
SCALE:	AS NOTED
PLOT DATE:	FEB. 2024
FILE NAME:	

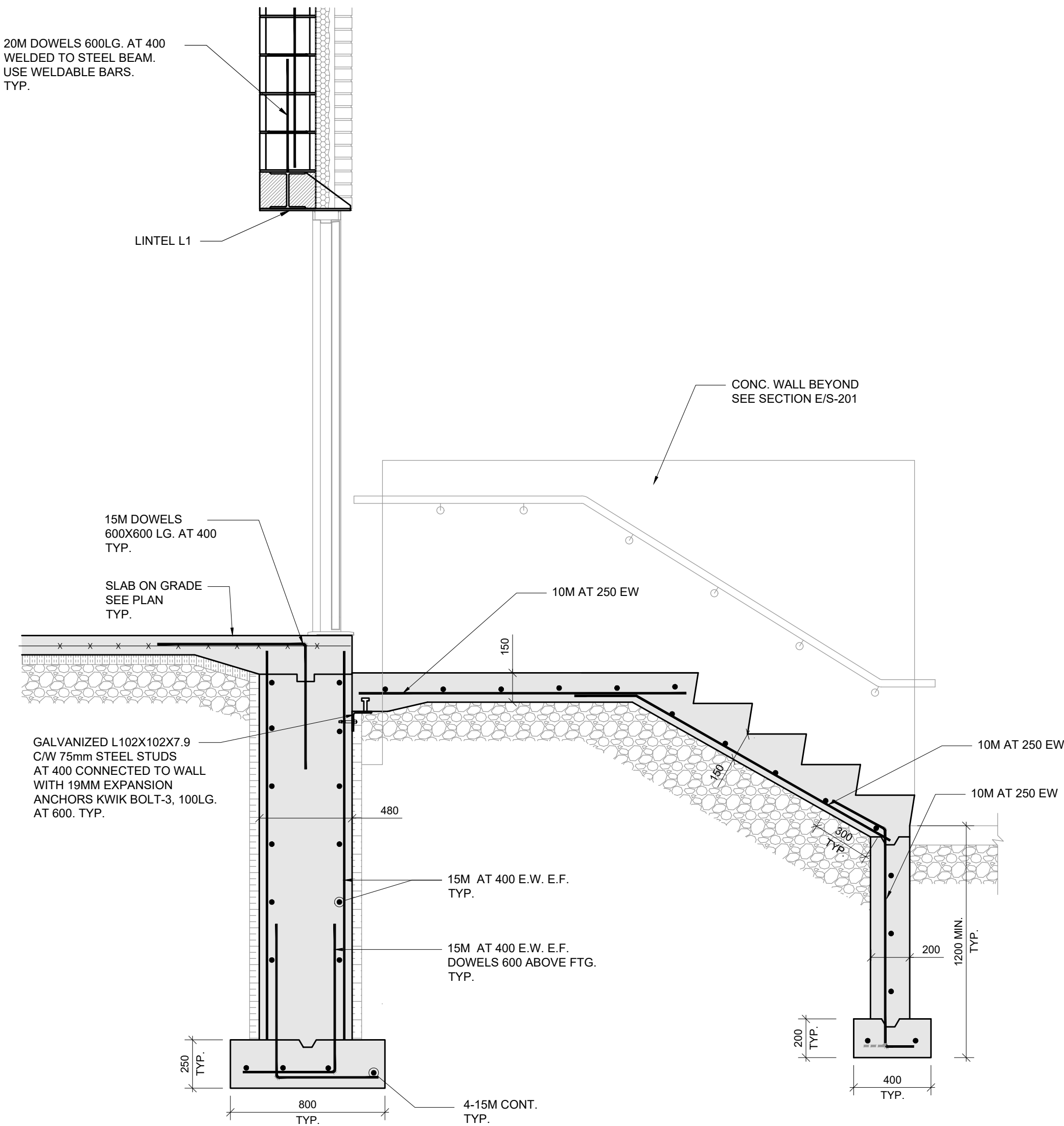
PROJECT NUMBER: 12033

DRAWING NUMBER: **S-200**

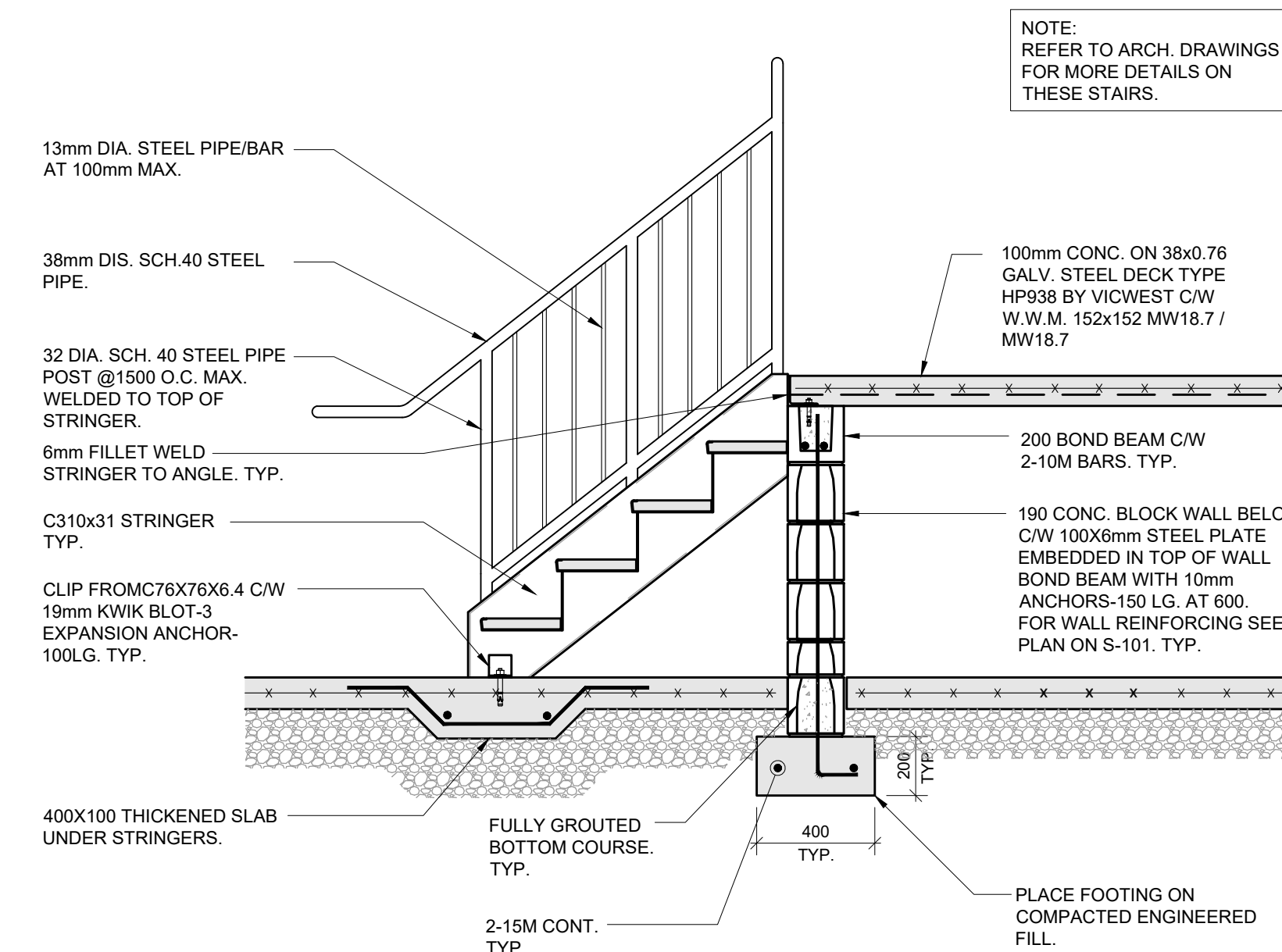


C SECTION
SCALE: 1:20

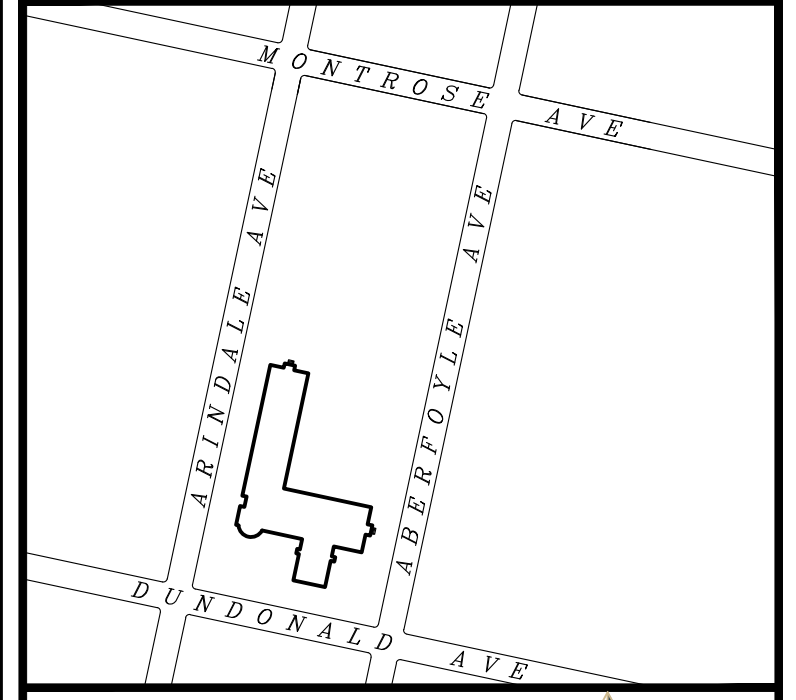
E SECTION
SCALE: 1:20



D SECTION
SCALE: 1:20



G SECTION
SCALE: 1:20



KEY PLAN
SCALE NTS

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#	DATE	DESCRIPTION	BY

ISSUES & REVISIONS	BY

ISSUES & REVISIONS	BY

CLIENT

HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

AILMAR ENGINEERING INC.
STRUCTURAL ENGINEERS

94 CURRAN RD.
ANCASTER, ON L9K 0H4
PHONE: (905) 966-4797

PROJECT

**Addition to
HWDSB Rosedale
Elementary School**

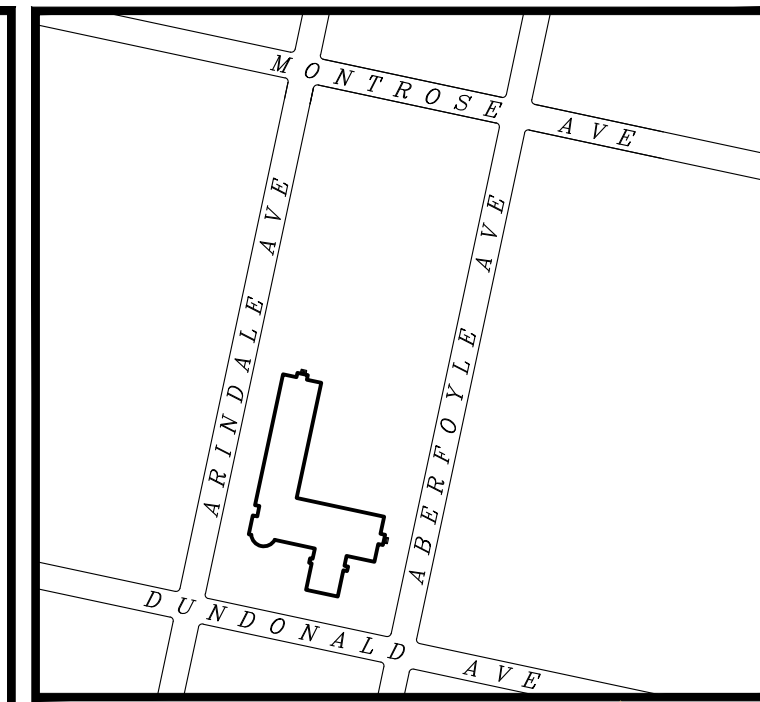
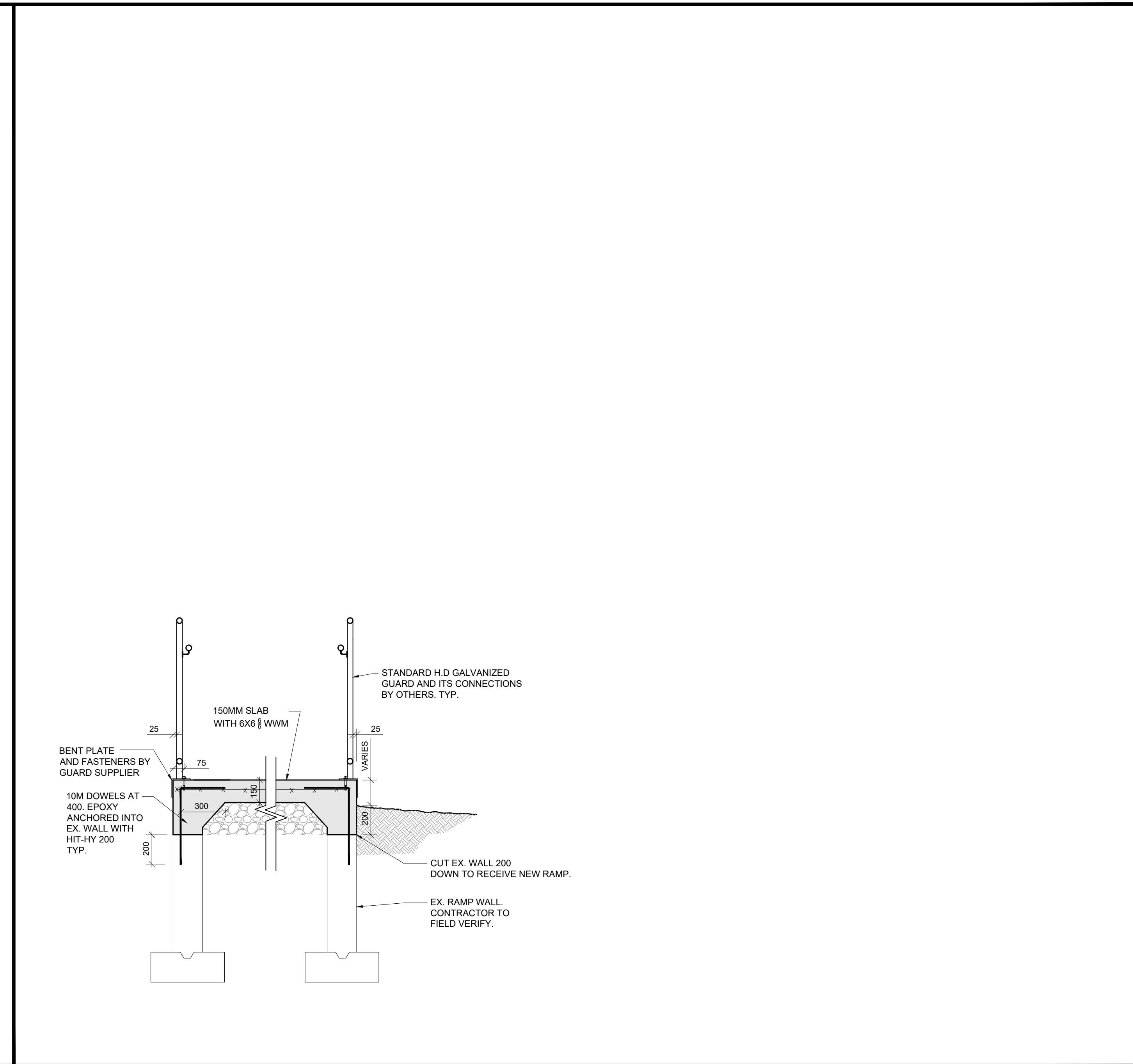
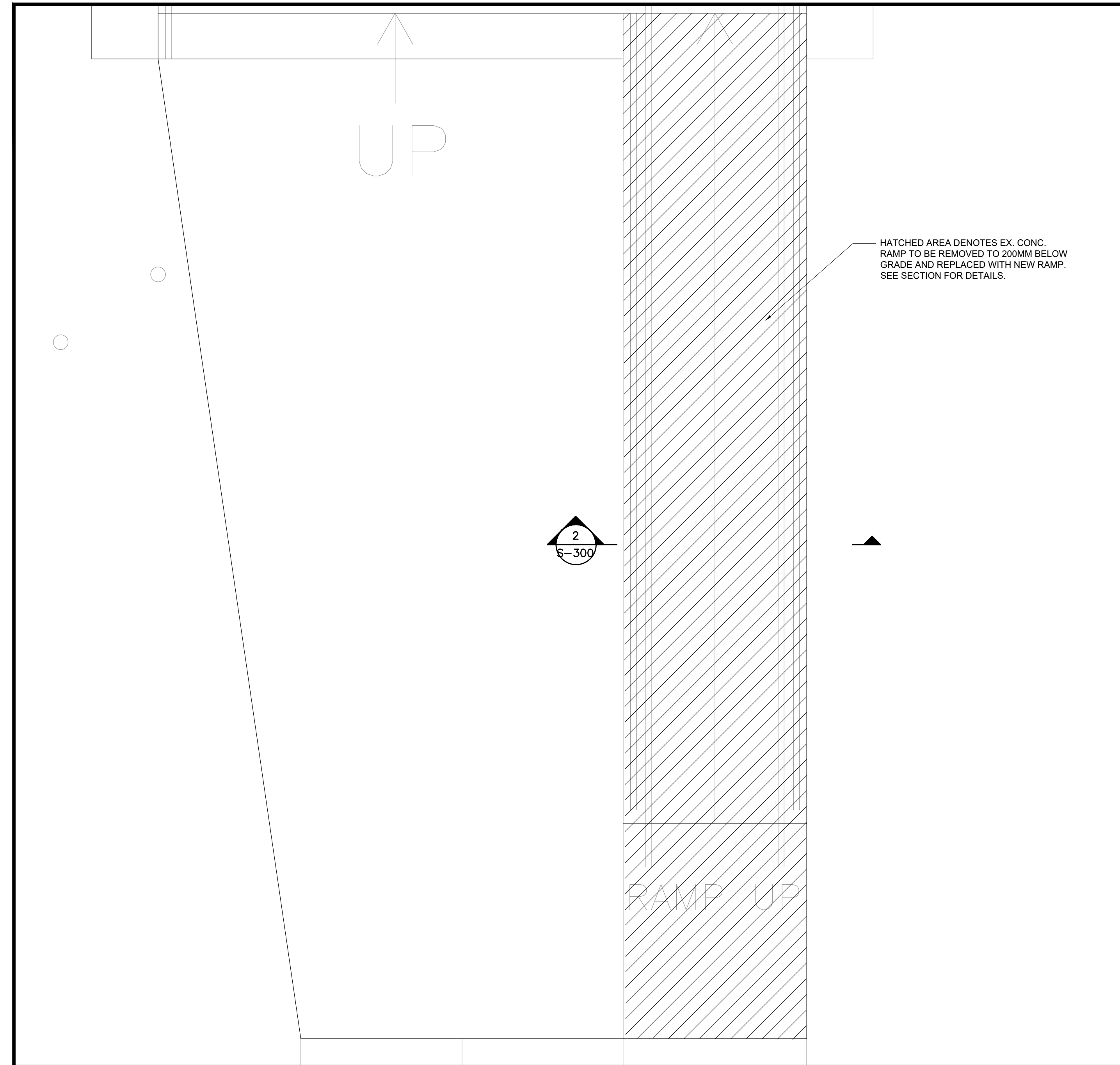
25 Erindale Ave.,
Hamilton, Ontario L8N 3L1

DRAWING TITLE:
SECTIONS

DESIGNED:	S.S.
DRAWN:	S.K.
CHECKED:	S.S.
SCALE:	AS NOTED
PLOT DATE:	FEB. 2024
FILE NAME:	

PROJECT NUMBER: **12033**

DRAWING NUMBER: **S-201**



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#	DATE	DESCRIPTION	BY
C 25/03/24		ISSUED FOR TENDER	S.S
B 15/02/24		ISSUED FOR PERMIT	S.S
A 19/12/23		ISSUED FOR CLIENT REVIEW	S.S

ISSUES & REVISIONS

CLIENT

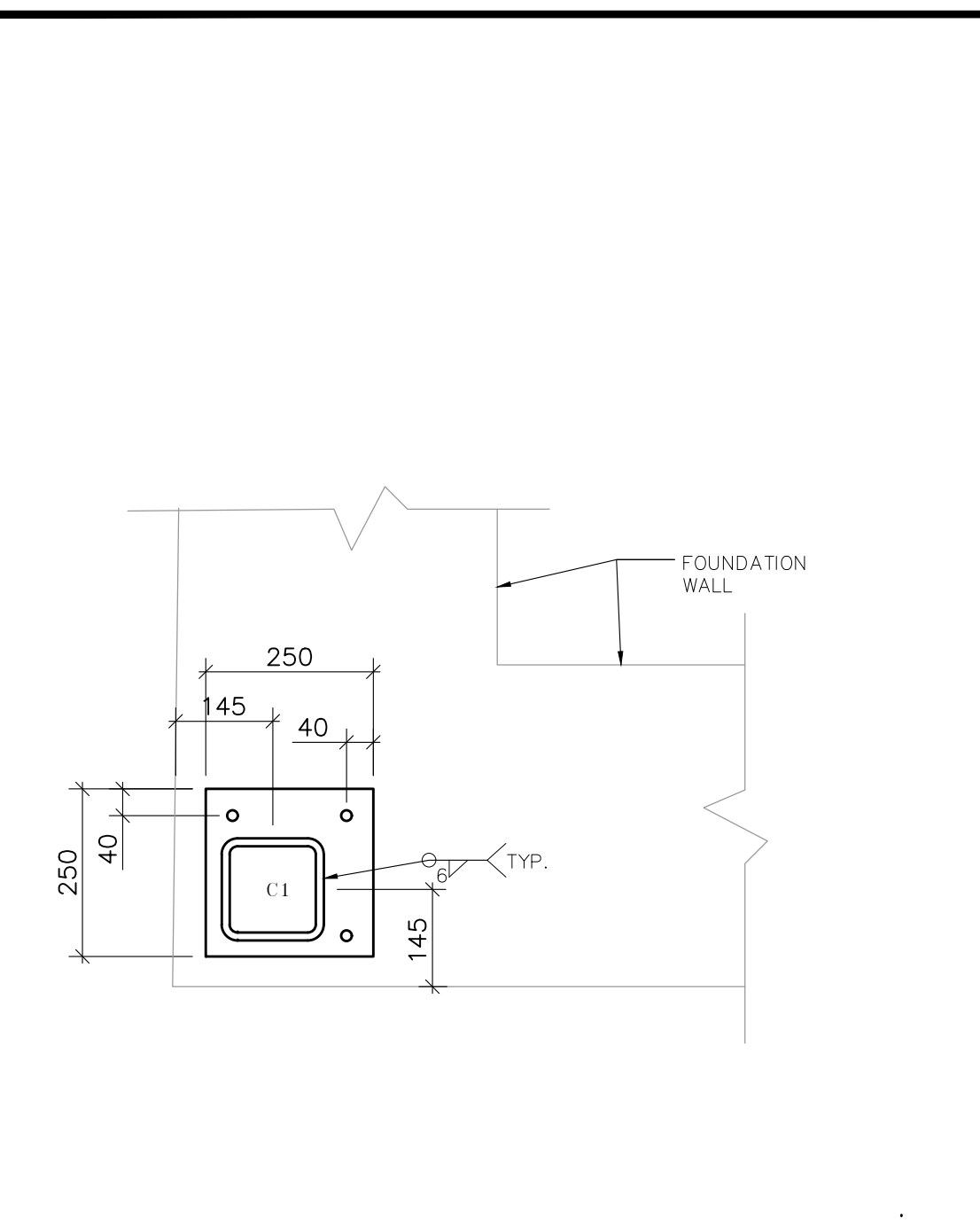
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

AILMAR ENGINEERING INC.
STRUCTURAL ENGINEERS

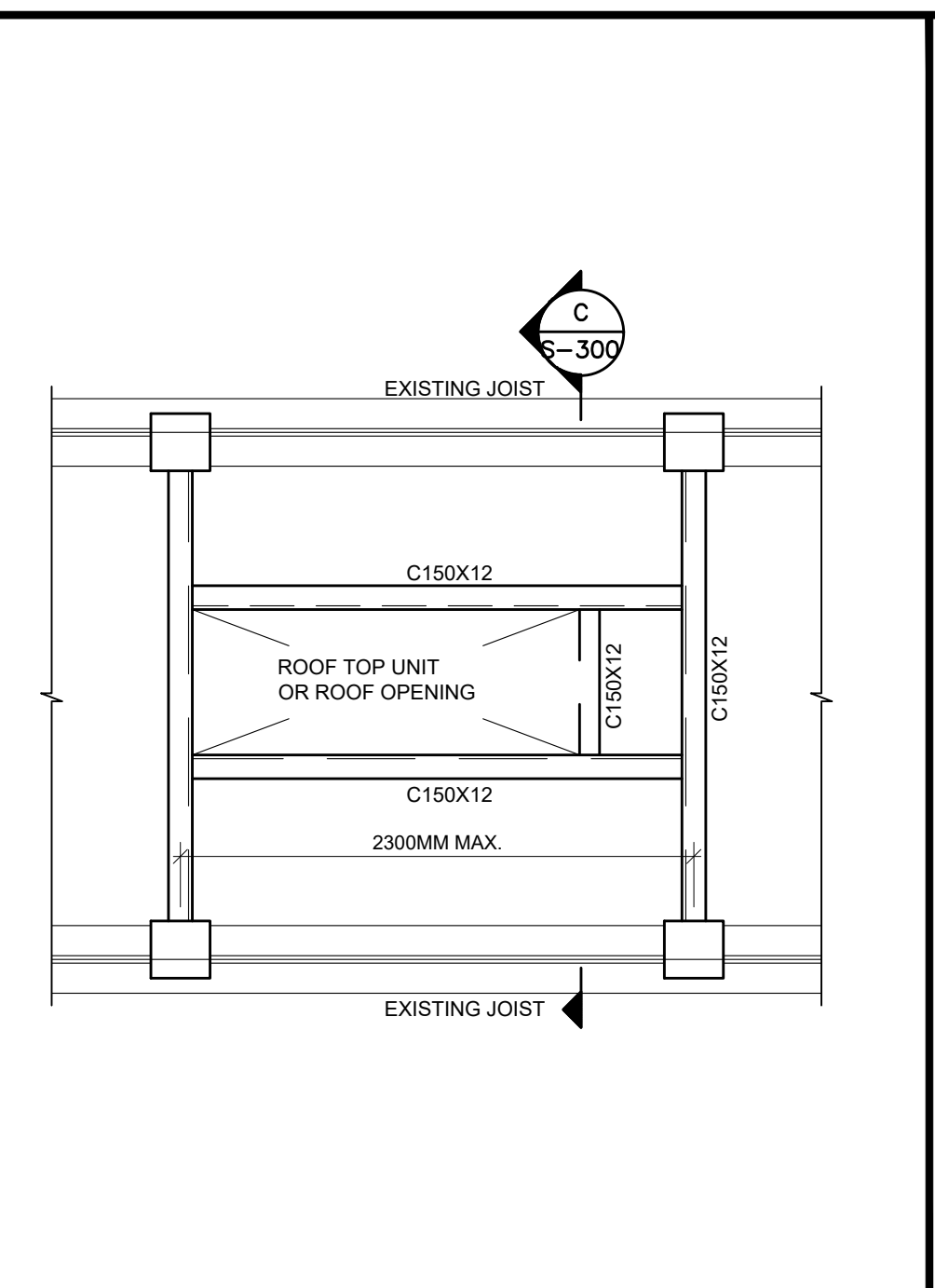
94 CURRAN RD.
ANCASTER, ON L9K 0H4
PHONE: (905) 966-4797

1 FRONT ENTRANCE RAMP DEMO PLAN
SCALE: 1:20

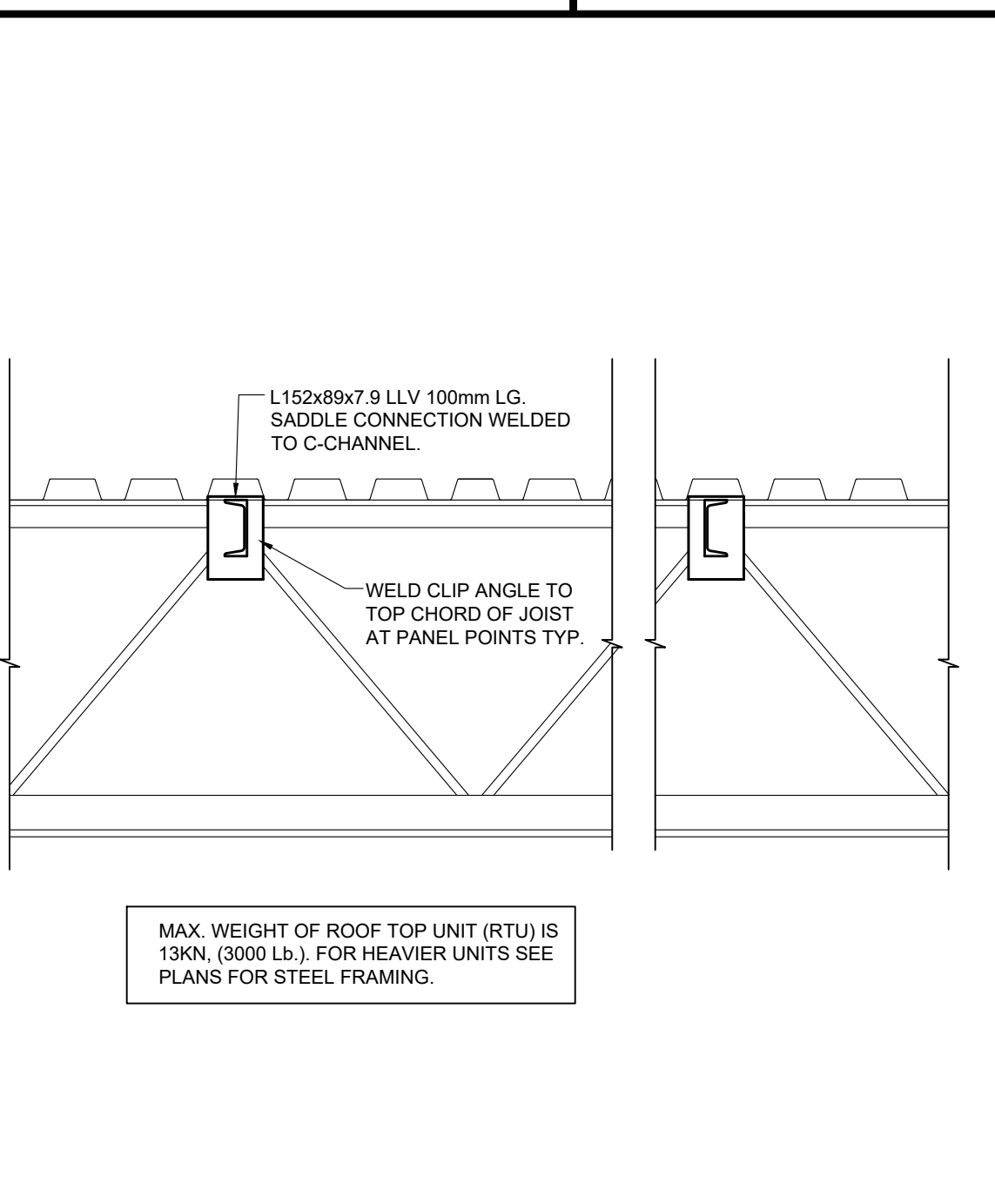
2 SECTION DETAIL
SCALE: 1:20



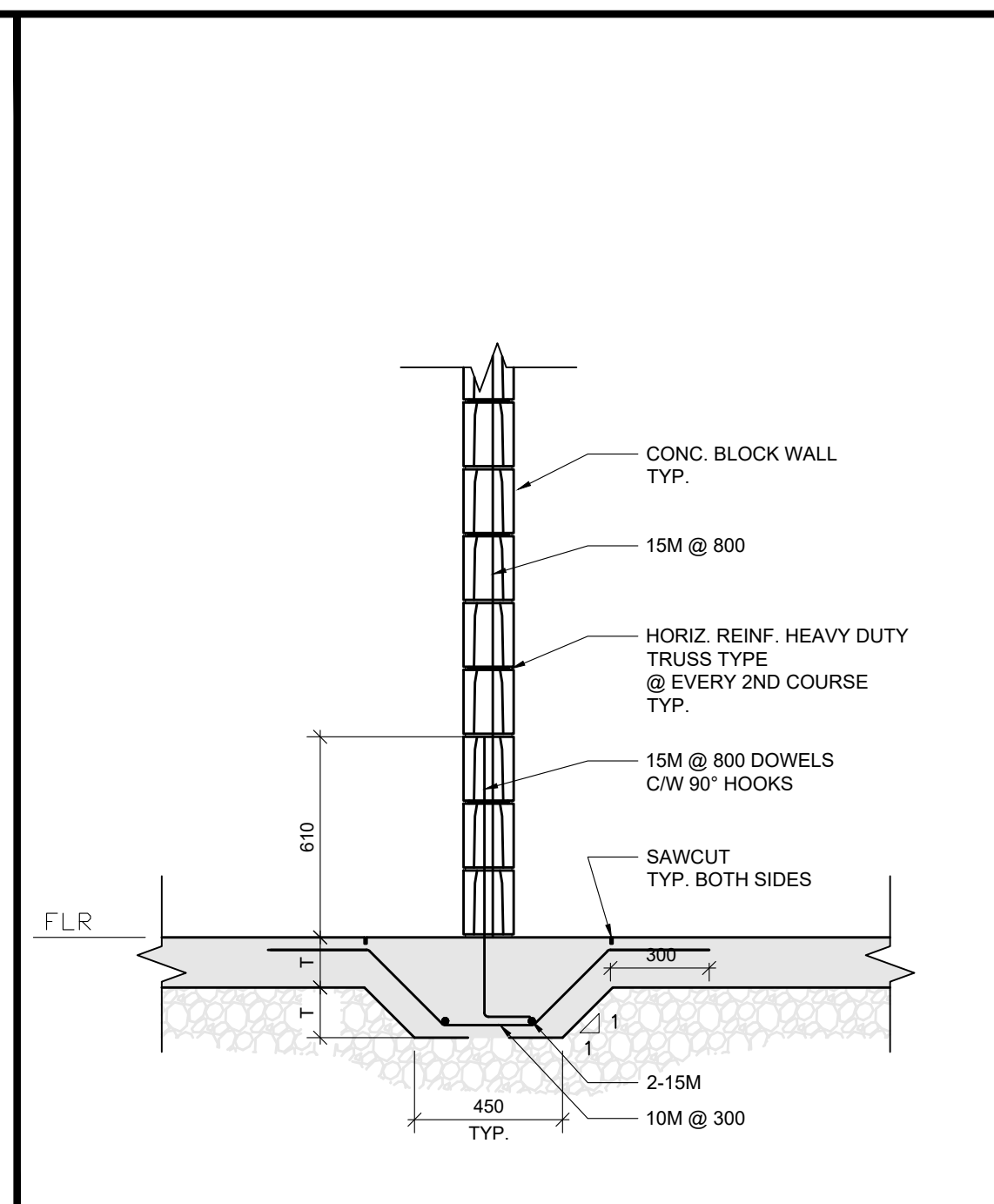
DETAIL-BASEPLATE FOR COL. C1
SCALE: 1:10



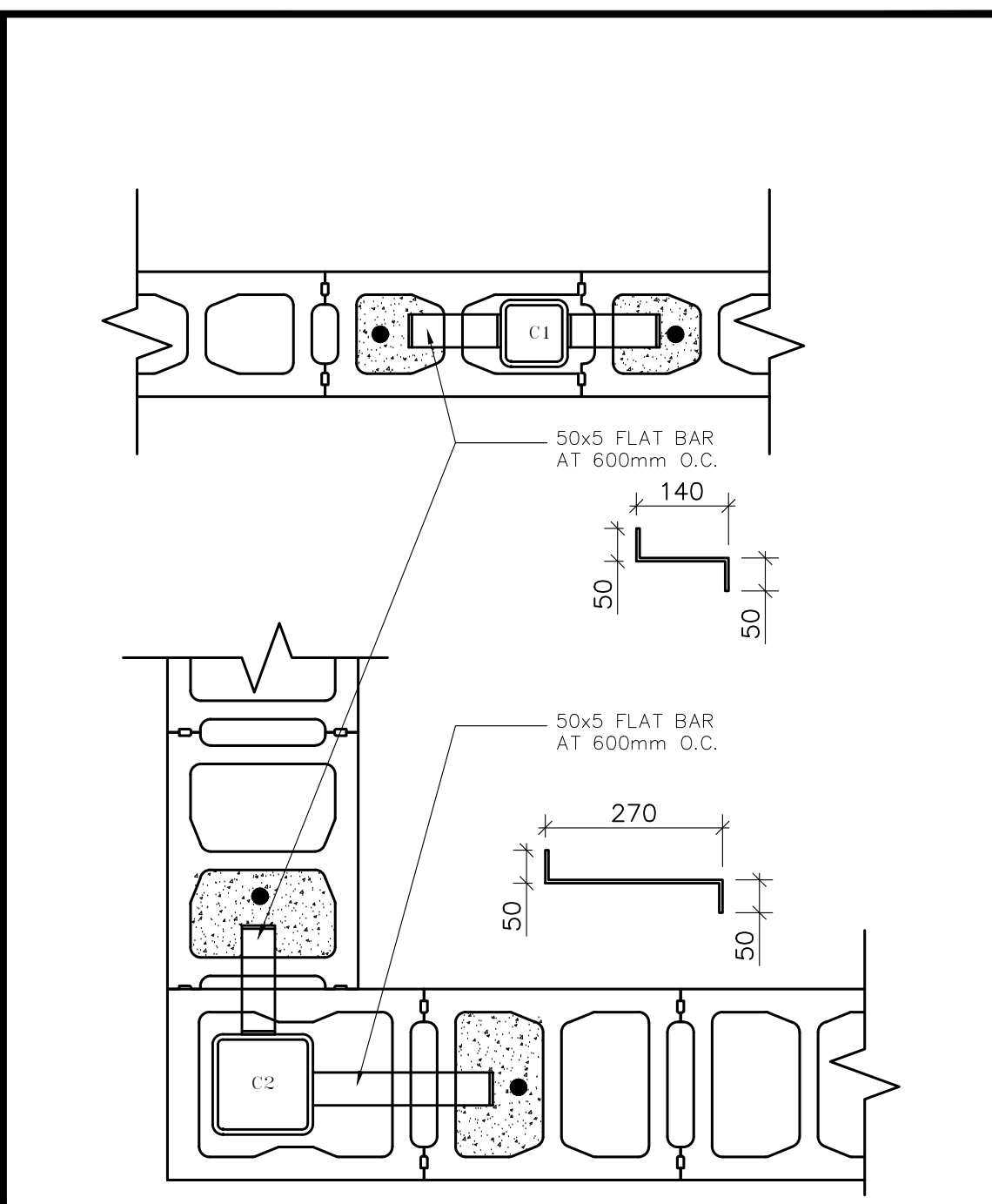
TYP. RTU OR ROOF OPENING FRAMING DETAIL
SCALE: 1:20



3 SECTION
SCALE: 1:20



TYP. SLAB THICKENING UNDER BLOCK PARTITION WALL
SCALE: 1:20



TYP. MASONRY TO COLUMN CONNECTION
SCALE: 1:10



PROJECT

Addition to
HWDSB Rosedale
Elementary School

25 Erindale Ave.,
Hamilton, Ontario L8N 3L1

DRAWING TITLE:
DETAILS

DESIGNED: S.S.

DRAWN: S.K.

CHECKED: S.S.

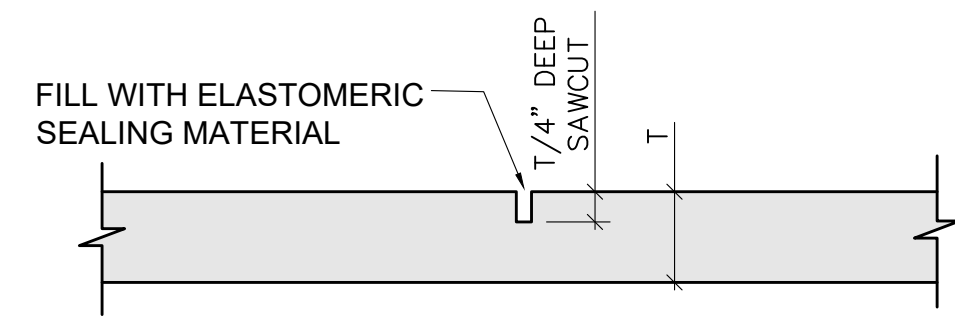
SCALE: AS NOTED

PLOT DATE: FEB. 2024

FILE NAME:

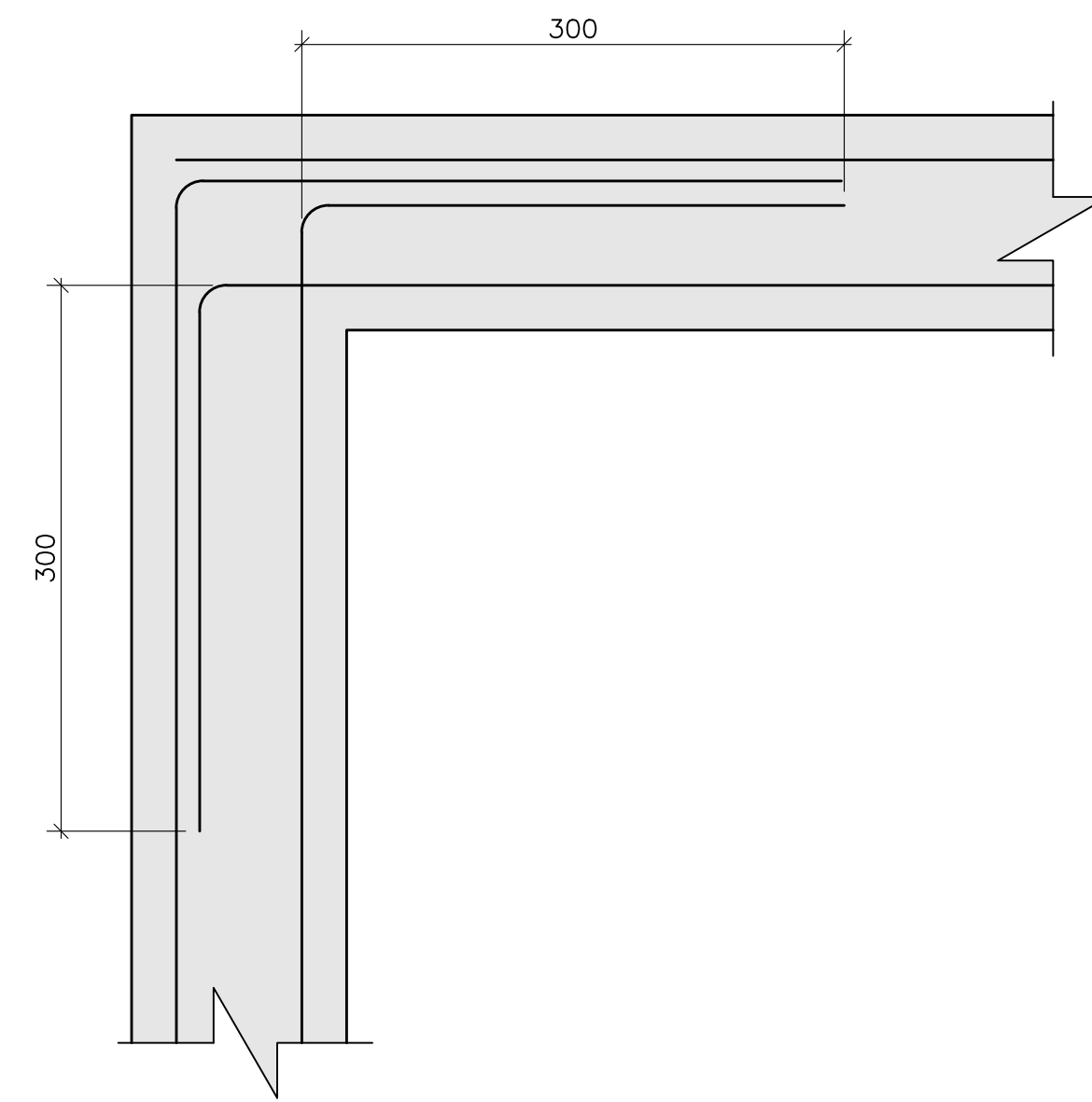
PROJECT NUMBER: 12033

DRAWING NUMBER: **S-300**

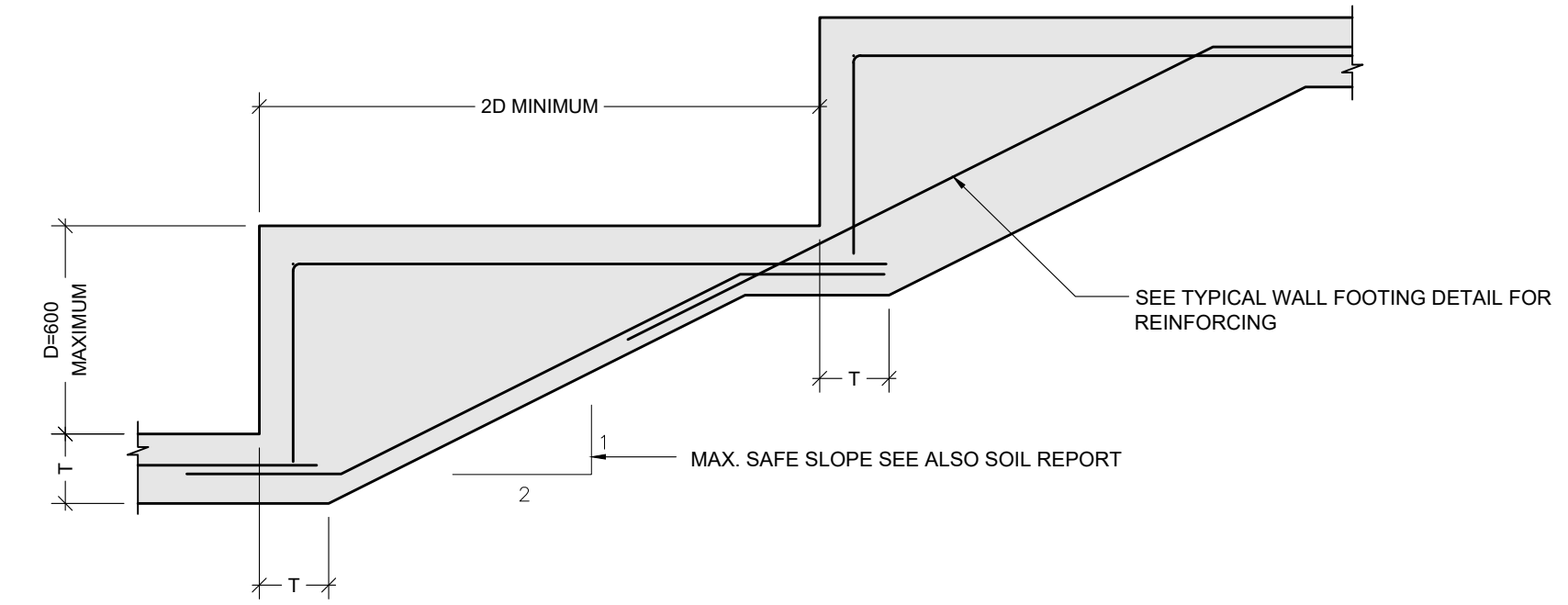


NOTE:
LOCATE SAWCUTS AS SHOWN
ON PLAN

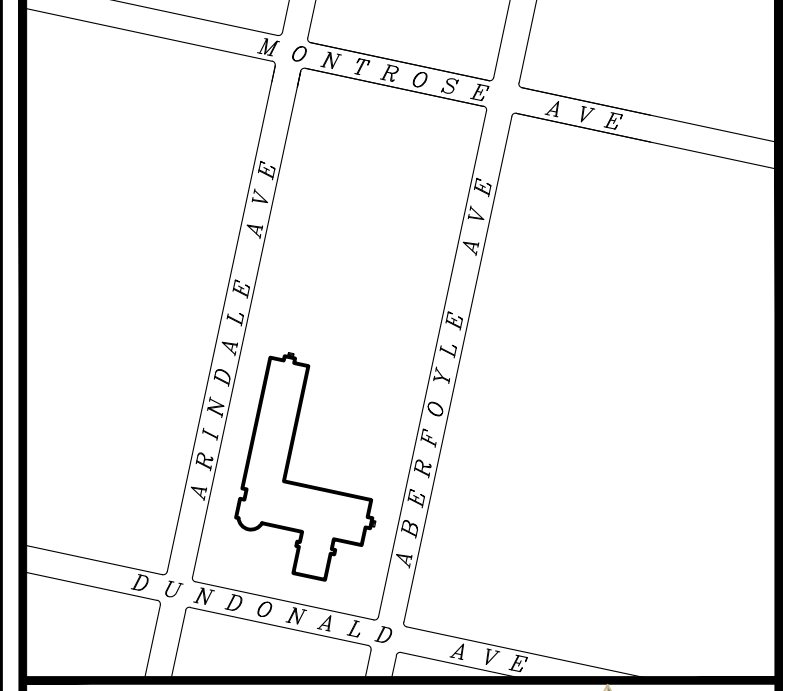
TYP. SLAB ON GRADE - SAWCUT DETAIL
SCALE: 1:10



TYP. CORNER REBARS DETAIL
SCALE: 1:10



STEPPED FOOTING DETAIL
SCALE: 1:20



KEY PLAN
SCALE NTS

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C 25/03/24	ISSUED FOR TENDER	S.S.	
B 15/02/24	ISSUED FOR PERMIT	S.S.	
A 19/12/23	ISSUED FOR CLIENT REVIEW	S.S.	

ISSUES & REVISIONS

CLIENT



94 CURRAN RD.
ANCASTER, ON L9K 0H4
PHONE: (905) 966-4797

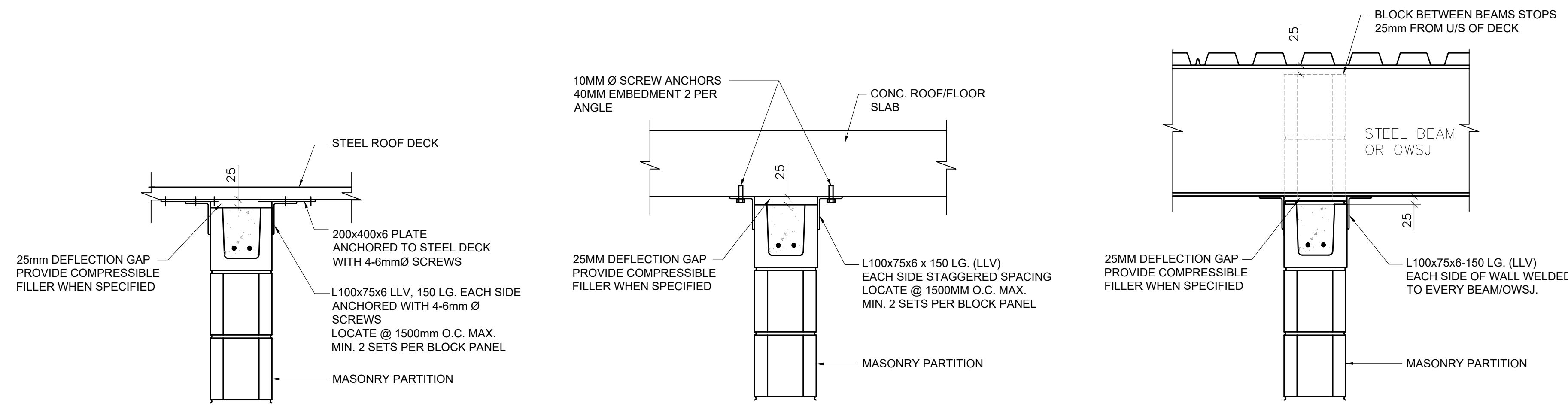


PROJECT
**Addition to
HWDSB Rosedale
Elementary School**
25 Erindale Ave.,
Hamilton, Ontario L8N 3L1

DRAWING TITLE:
TYP. DETAILS

DESIGNED:	S.S.
DRAWN:	S.K.
CHECKED:	S.S.
SCALE:	AS NOTED
PLOT DATE:	FEB. 2024
FILE NAME:	
PROJECT NUMBER:	12033

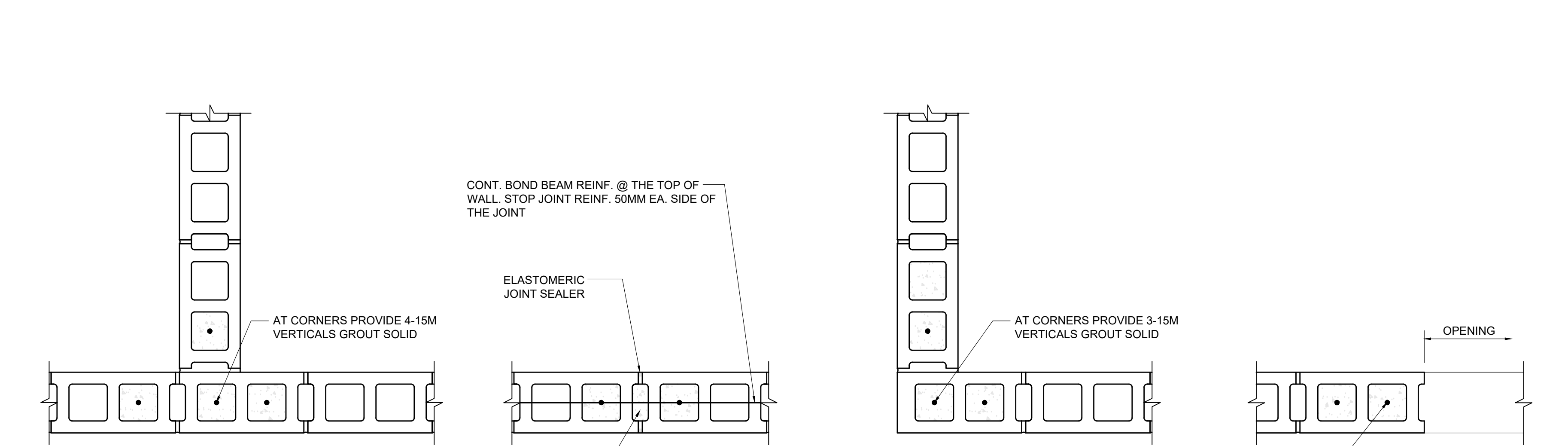
DRAWING NUMBER: **S-400**



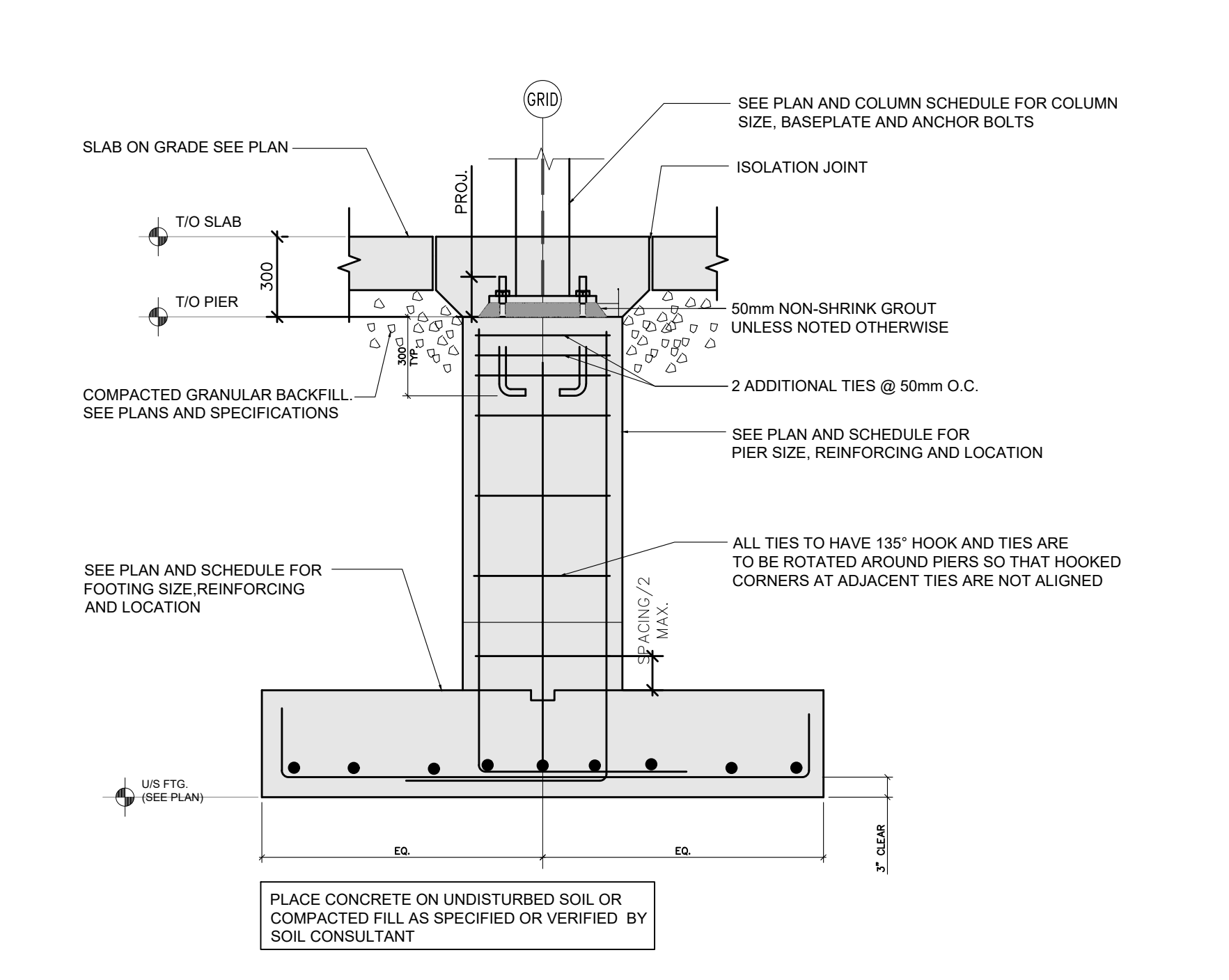
WALL PERPENDICULAR TO THE FLUTES OF STEEL DECK
WALL UNDER CONCRETE SLAB
WALL PERPENDICULAR TO STEEL BEAMS/OWSJ.

BLOCK WALL RESTRAINT DETAIL
SCALE: 1:10

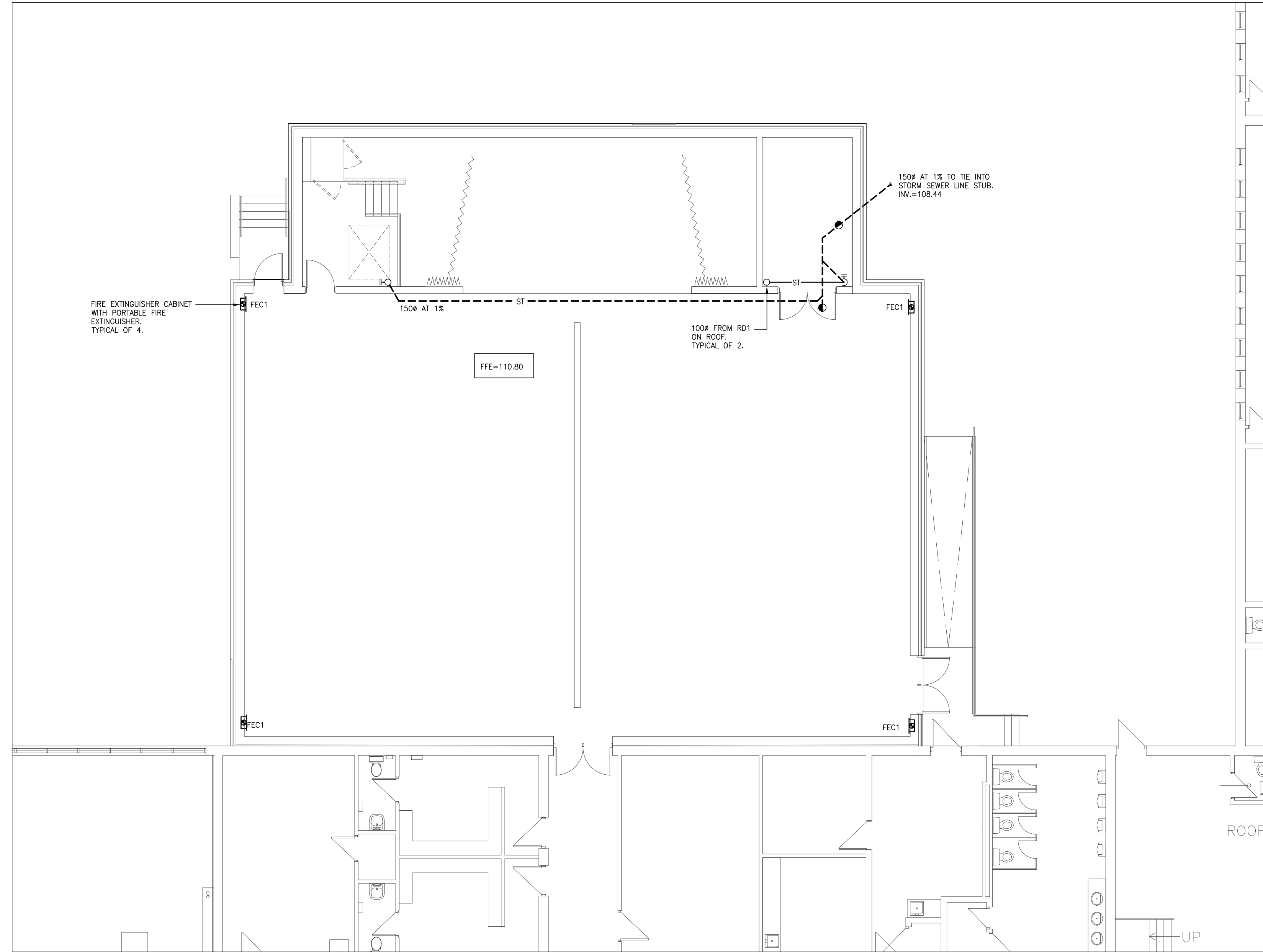
SERVICE PIPES UNDER FOOTINGS
SCALE: 1:10



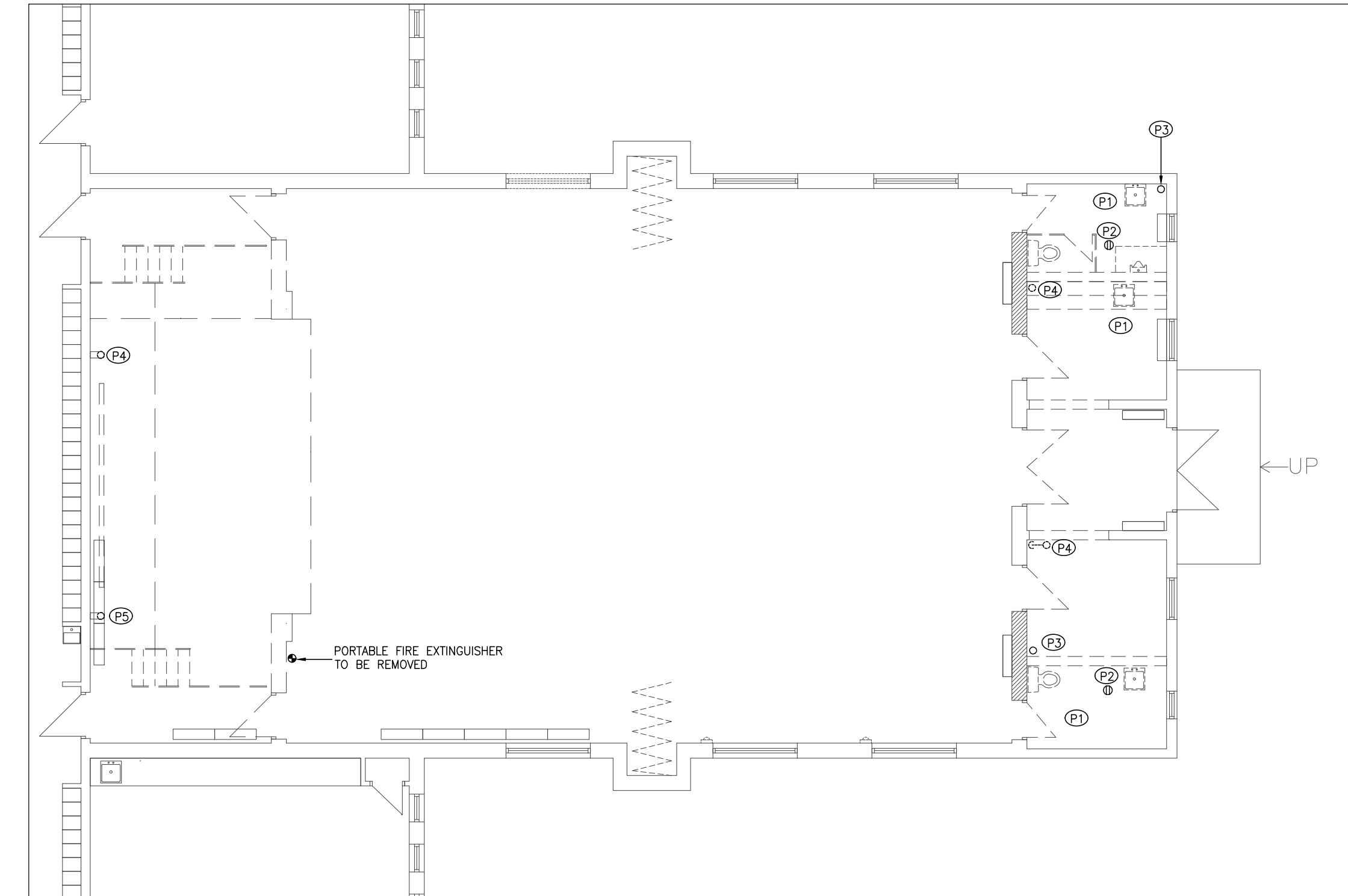
TYPICAL BLOCK WALL REINFORCING
SCALE: 1:10



TYP. CONCRETE PIER AND FOOTING DETAIL
SCALE: 1:20



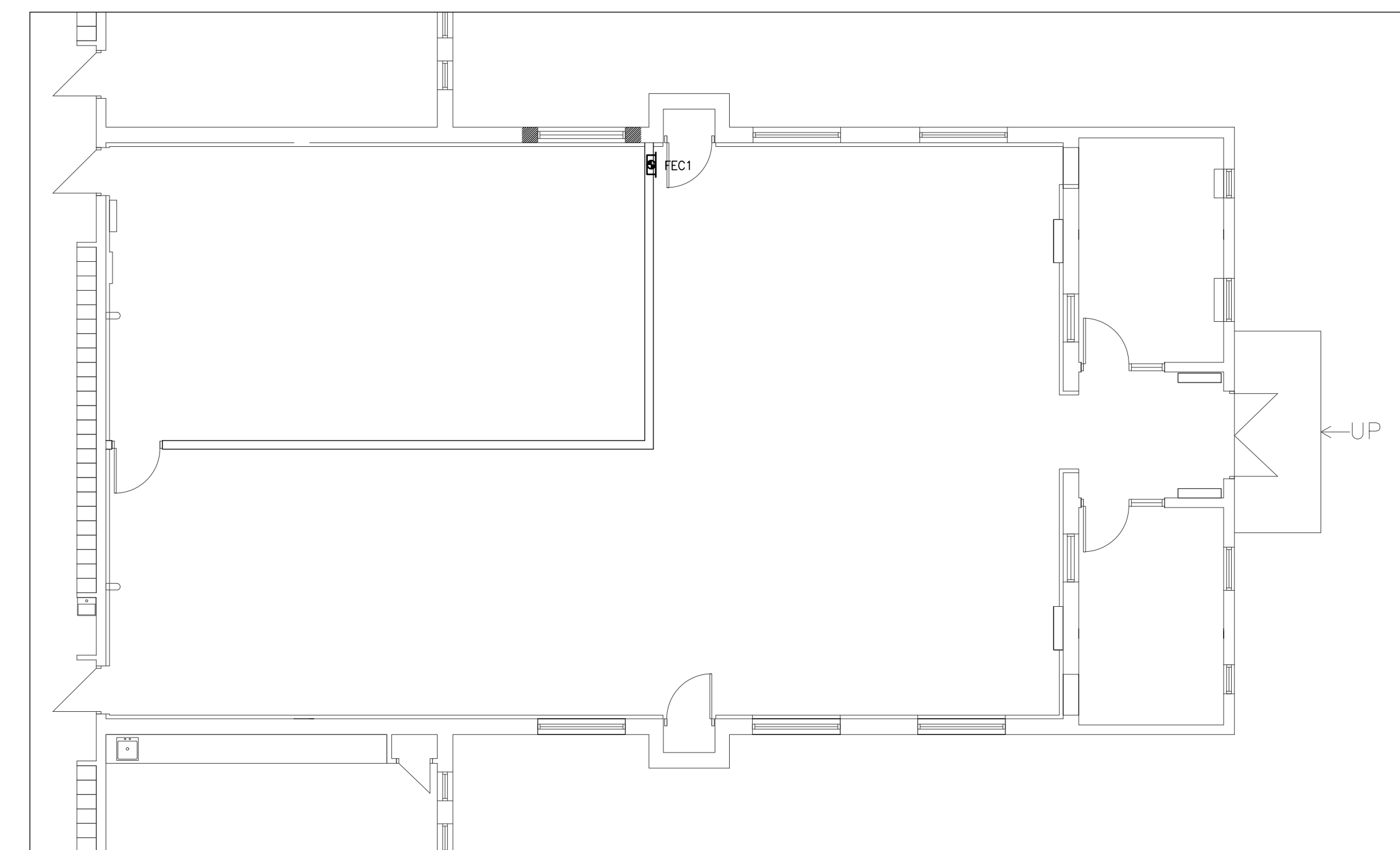
1
M1-1
1:500
GROUND FLOOR PLAN - GYMNASIUM PLUMBING AND PORTABLE FIRE EXTINGUISHER LAYOUT



2
M1-1
1:100
GROUND FLOOR - GYMNASIUM DEMOLITION PLUMBING LAYOUT

PLUMBING DEMOLITION NOTES (PF)

- 1 REMOVE ALL PLUMBING FIXTURES AND PLUMBING LINES. ALL PLUMBING LINES SHALL BE CUTBACK AND CAPPED. SANITARY LINES SHALL BE CAPPED BELOW THE FLOOR OR IN WALL. DOMESTIC WATER LINES SHALL BE CAPPED IN CEILING SPACE, BELOW THE FLOOR OR IN WALL.
- 2 REMOVE FLOOR DRAIN GRATE AND CAP FLOOR DRAIN AND SANITARY LINE BELOW FLOOR LEVEL.
- 3 REMOVE PLUMBING VENT LINE AND CAP LINE BELOW FLOOR LEVEL.
- 4 ROOF DRAINAGE LINE TO REMAIN BUT SHALL BE INSULATED AND COVERED WITH PVC JACKET.
- 5 ROOF DRAINAGE LINE TO REMAIN BUT SHALL BE COVERED WITH PVC JACKET.

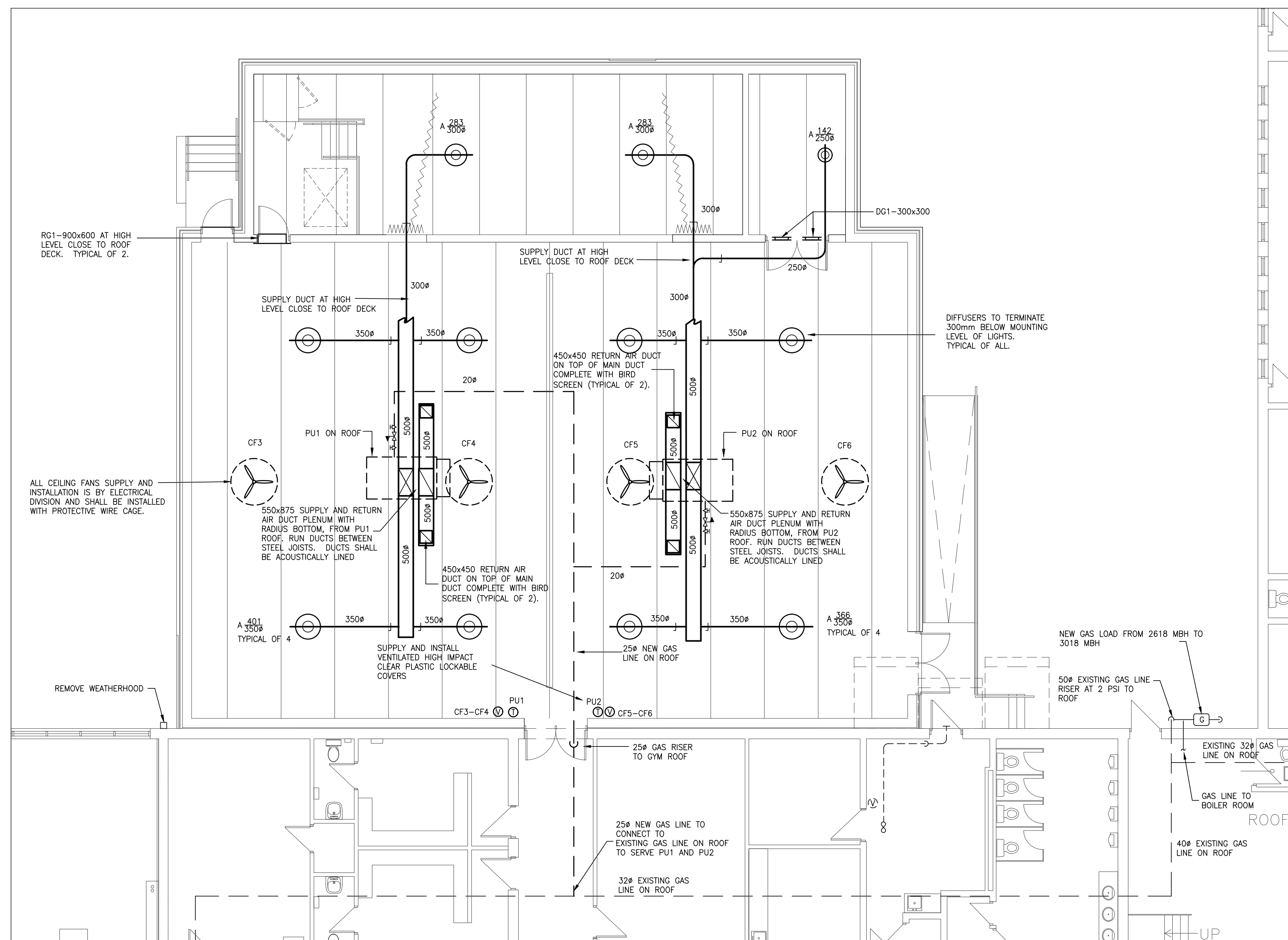


4
M2-1
1:100
GROUND FLOOR PLAN - LEARNING COMMONS PORTABLE FIRE EXTINGUISHER LAYOUT

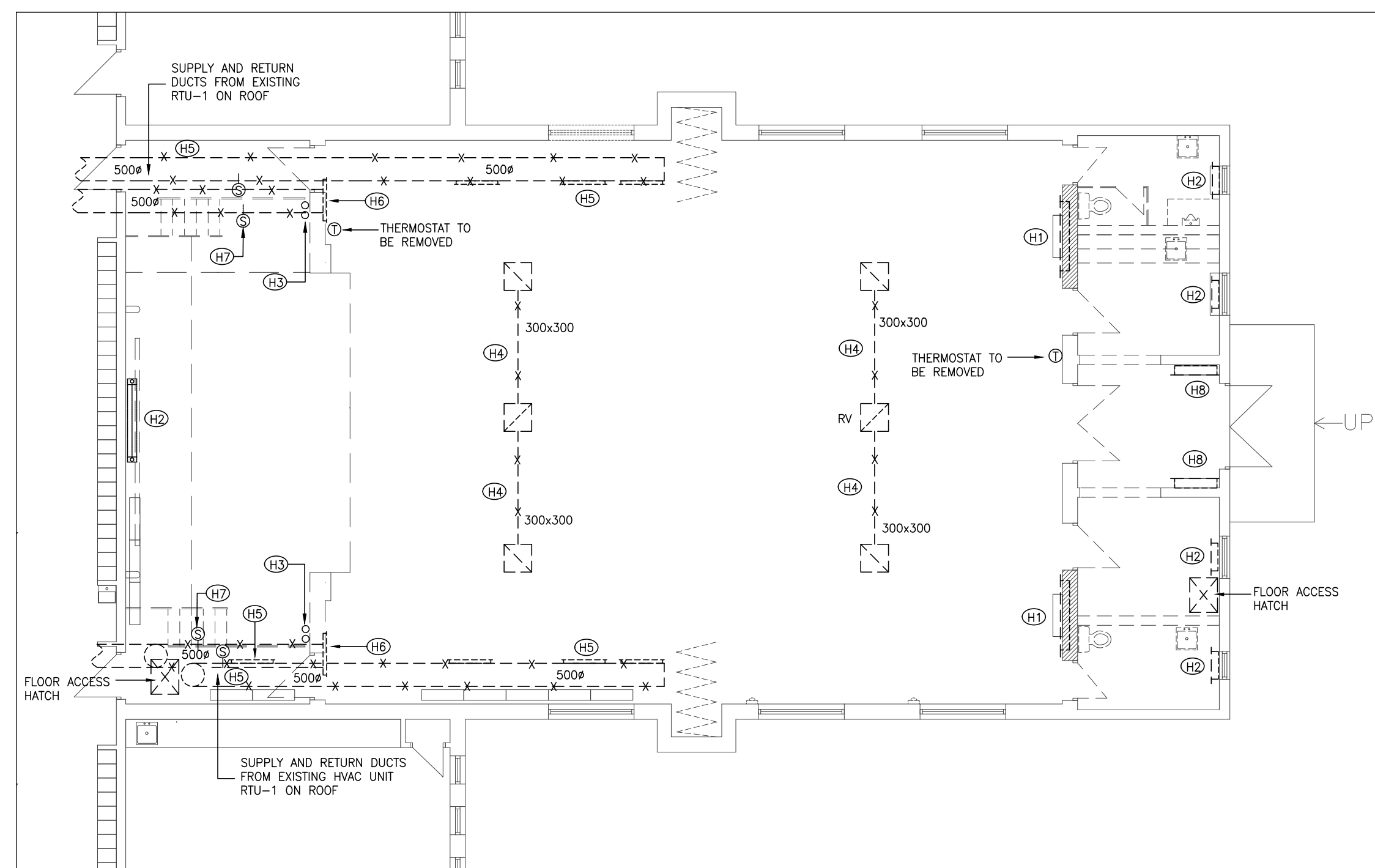
PLUMBING LEGEND	
SYMBOL	DESCRIPTION
—	NEW LINES
— (thin)	EXISTING LINES (THIN LINE)
— x — x	EQUIPMENT TO BE REMOVED
— (dashed)	EQUIPMENT TO BE RELOCATED
— (dashed)	EQUIPMENT TO BE REMOVED
— (dashed)	CAPPED LINE
— (dashed)	PIPE RISE
— (dashed)	PIPE DROP
— (dashed)	SANITARY LINE BELOW GRADE
— (dashed)	SANITARY LINE ABOVE GRADE
— (dashed)	STORM LINE BELOW GRADE
— (dashed)	STORM LINE ABOVE GRADE
— (dashed)	COLD WATER CW
— (dashed)	HOT WATER HW
— (dashed)	HOT WATER RECIRCULATION HWR
— (dashed)	TEMPERED HOT WATER
— (dashed)	CONDENSATE LINE
— (dashed)	HWS HEATING WATER SUPPLY
— (dashed)	HEATING WATER RETURN
FD	FLOOR DRAIN
HD	HUB DRAIN
RD	ROOF DRAIN
FC	FLOOR CLEANOUT
LC	LINE CLEANOUT
GV	GATE VALVE
BV	BALL VALVE
BFV	BUTTERFLY VALVE
CV	GLOBE VALVE
CKV	CHECK VALVE
BFP	BACKFLOW PREVENTOR
STR	STRAINER
CBV	CIRCUIT BALANCING VALVE
2-WAY	2-WAY MOTORIZED CONTROL VALVE-24V
MAV	MANUAL AIR VENT (MAV)
AAV	AUTOMATIC AIR VENT (AAV)
TM	THERMOMETER
DRV	DRAIN VALVE WITH HOSE THREADED END
T&P	T&P SAFETY RELIEF VALVE
P	PUMP
WM	WATER METER
H	HOSE BIB

FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
FEC1	FIRE EXTINGUISHER CABINET WITH PORTABLE FIRE EXTINGUISHER FE1
FE	PORTABLE FIRE EXTINGUISHER FE1: 3A-10BC, 5 LBS. CAPACITY

3	APR.26/24	ISSUED FOR TENDER
2	MAR.28/24	ISSUED FOR REVIEW
1	FEB.21/24	ISSUED FOR PERMIT
NO.	DATE	REVISION
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CoPa ENGINEERING LTD.		
29 ROLLING ACRES DR. KITCHENER, ONTARIO N2A 3W5 TEL. (519) 894-0022		
PROJECT	ADDITION TO HWDSB ROSEDALE ELEMENTARY SCHOOL 25 ERINDALE AVE. KITCHENER ONTARIO	
DRAWING	PLUMBING AND PORTABLE FIRE EXTINGUISHER LAYOUT	
DRAWN BY: C. PASHARTIS	SCALE: 1:100	
CHECKED BY: C. PASHARTIS	DATE: DECEMBER 19, 2023	
PROJECT NO. 23CP054	DRAWING NO.	M1-1



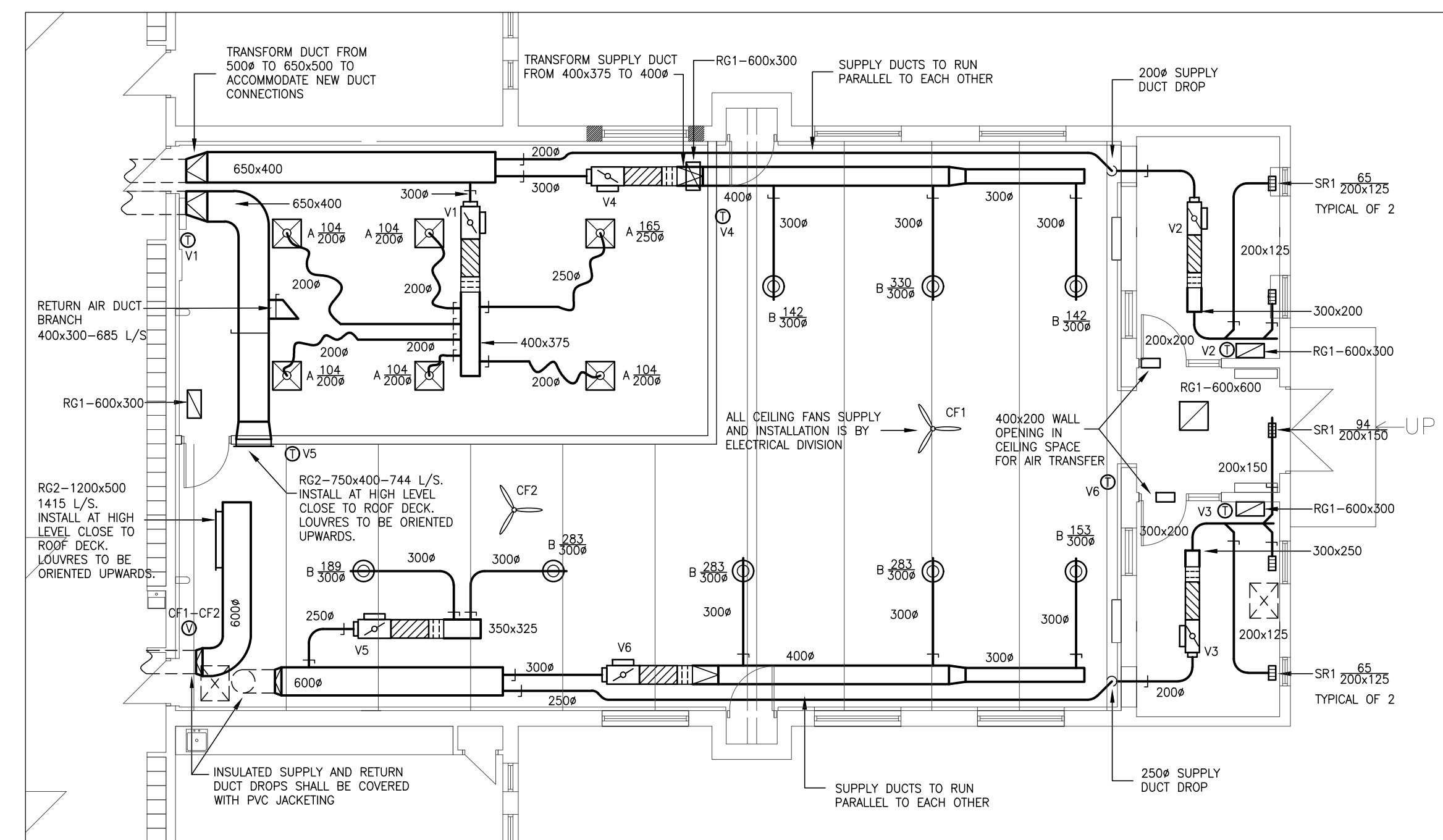
1 GROUND FLOOR PLAN - GYMNASIUM ADDITION HVAC LAYOUT
M2-1 1:100



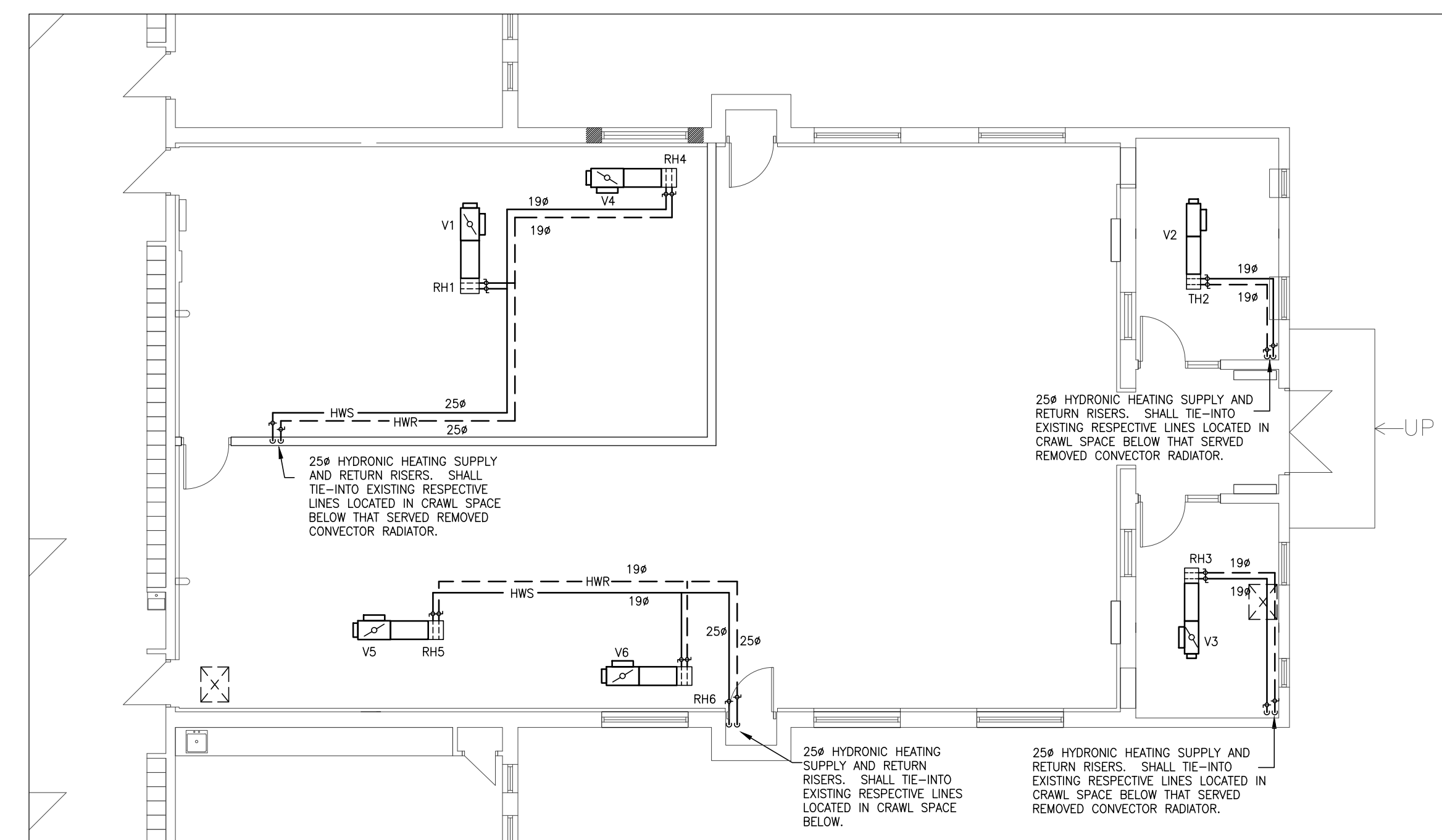
2 GROUND FLOOR - GYMNASIUM DEMOLITION HVAC LAYOUT
M2-1 1:100

HVAC DEMOLITION NOTES

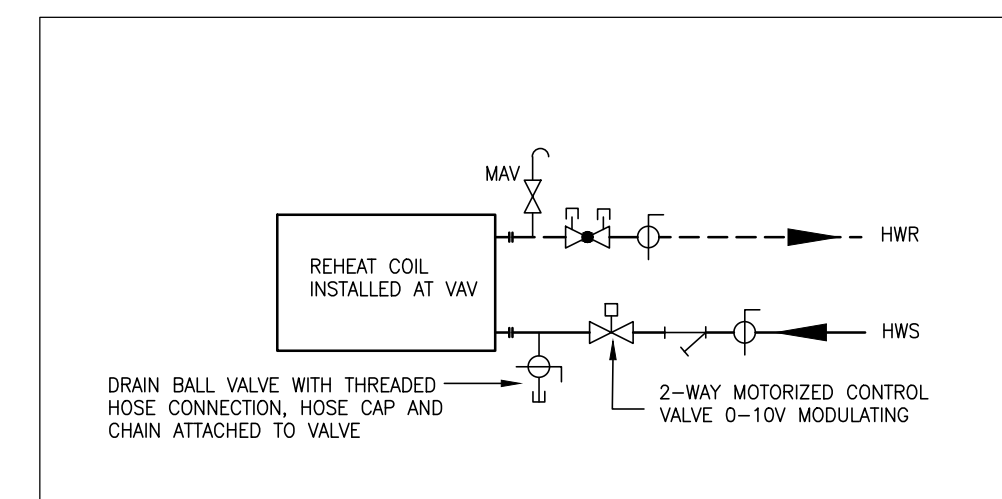
- 1 REMOVE CABINET UNIT HEATER AND HYDRONIC HEATING LINES AND CAP IN CRAWL SPACE.
- 2 REMOVE CONVECTOR RADIATOR AND HYDRONIC HEATING LINES AND CAP IN CRAWL SPACE.
- 3 REMOVE HYDRONIC HEATING RISERS AND LINES RUNNING UNDER STAGE AND CAP IN CRAWL SPACE.
- 4 REMOVE EXHAUST DUCTWORK AND ROOF MOUNTED EXHAUST FANS.
- 5 REMOVE SUPPLY AIR DRUM LOUVERES AND OBSOLETE DUCT.
- 6 REMOVE RETURN AIR GRILLE, CUTBACK EXHAUST DUCT, REWORK AND EXTEND 500 ϕ DUCT TO NEW LOCATION.
- 7 RETURN AIR DUCT MOUNTED SMOKE DETECTORS SHALL BE RELOCATED BY BUILDING AUTOMATION SYSTEMS CONTRACTOR.



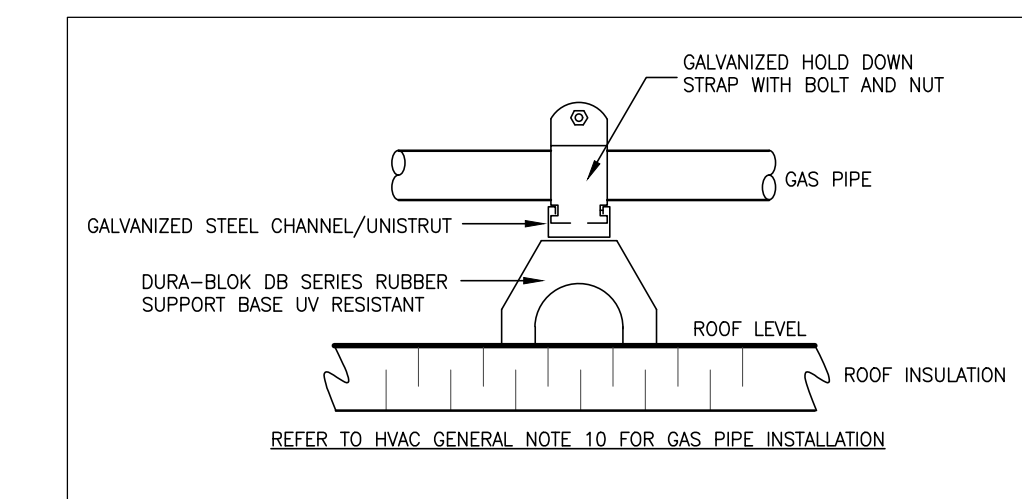
3 GROUND FLOOR PLAN - LEARNING COMMONS HVAC RENOVATION LAYOUT
M2-1 1:100



4 GROUND FLOOR PLAN - LEARNING COMMONS REHEAT COILS HYDRONIC PIPING LAYOUT
M2-1 1:100



5 REHEAT COIL PIPING DETAIL
M2-1 N.T.S.



5 GAS PIPE SUPPORT DETAIL
M2-1 N.T.S.

HVAC LEGEND	
SYMBOL	DESCRIPTION
(Symbol)	NEW EQUIPMENT
(Symbol)	EQUIPMENT TO REMAIN
(Symbol)	EQUIPMENT TO BE REMOVED
(Symbol)	EQUIPMENT TO BE RELOCATED
(Symbol)	DUCTING TO BE CAPPED
(Symbol)	SUPPLY DUCT
(Symbol)	EXHAUST/RETURN DUCT
(Symbol)	SUPPLY DIFFUSER
(Symbol)	SUPPLY DIFFUSER WITH BLANK SIDE
(Symbol)	SUPPLY REGISTER (WALL/SIDE DUCT MOUNTED)
(Symbol)	CEILING/FLOOR SUPPLY REGISTER
(Symbol)	ROUND DIFFUSER
(Symbol)	EXHAUST/RETURN GRILLE
(Symbol)	DIFFUSER/GRILLE DATA: A=REF, 2=L/S, 3-MM
(Symbol)	FLEXIBLE DUCT
(Symbol)	VOLUME CONTROL DAMPER
(Symbol)	SPLITTER DAMPER
(Symbol)	FIRE DAMPER
(Symbol)	SMOKE FIRE DAMPER
(Symbol)	EXHAUST FAN
(Symbol)	THERMOSTAT
(Symbol)	THERMOSTAT COVER
(Symbol)	THERMOSTAT REVERSE ACTING 120V/1/60
(Symbol)	REMOTE CONTROL PANEL
(Symbol)	VARIABLE SPEED CONTROLLER
(Symbol)	SENSOR
(Symbol)	ELECTRICAL ON/OFF SWITCH
(Symbol)	VARIABLE AIR VOLUME BOXES
(Symbol)	OPPOSED BLADE MOTORIZED DAMPER
(Symbol)	ACOUSTIC LINING
(Symbol)	FLEXIBLE CONNECTION
(Symbol)	DOUBLE THICKNESS TURNING VALVES
(Symbol)	DOOR GRILLE
(Symbol)	TRANSFER AIR ELBOW ACOUSTICALLY LINED
(Symbol)	CEILING CIRCULATING FAN
(Symbol)	GAS PRESSURE REGULATOR
(Symbol)	GAS PIPE
(Symbol)	PLUG VALVE
(Symbol)	GAS METER
(Symbol)	ELECTRIC FAN FORCED HEATER-BY MECHAN. DIV.
(Symbol)	ELECTRIC BASEBOARD HEATER-BY MECHAN. DIV.

HYDRONIC LEGEND	
SYMBOL	DESCRIPTION
(Symbol)	PIPE RISE
(Symbol)	PIPE DROP
(Symbol)	HEATING WATER SUPPLY
(Symbol)	HEATING WATER RETURN
(Symbol)	GATE VALVE
(Symbol)	BALL VALVE
(Symbol)	BUTTERFLY VALVE
(Symbol)	GLOBE VALVE
(Symbol)	CHECK VALVE
(Symbol)	STRAINER
(Symbol)	CIRCUIT BALANCING VALVE
(Symbol)	2-WAY MOTORIZED CONTROL VALVE
(Symbol)	MANUAL AIR VENT (MAV)
(Symbol)	AUTOMATIC AIR VENT (AAV)

3	APR.26/24	ISSUED FOR TENDER
2	MAR.28/24	ISSUED FOR REVIEW
1	FEB.21/24	ISSUED FOR PERMIT
NO.	DATE	REVISION

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CoPa ENGINEERING LTD.
 LICENSED PROFESSIONAL ENGINEER
C.T. PASHARTIS
 APR.26/24
 PROVINCE OF ONTARIO

PROJECT: ADDITION TO
HWDSB ROSEDALE ELEMENTARY SCHOOL
 25 ERINDALE AVE. KITCHENER, ONTARIO

DRAWING: **HVAC LAYOUT**

DRAWN BY: C. PASHARTIS SCALE: 1:100
 CHECKED BY: C. PASHARTIS DATE: DECEMBER 19, 2023

PROJECT NO. 23CP054 DRAWING NO. M2-1

DEMOLITION NOTES

GENERAL

A. ALL DEVICES NOTED FOR REMOVAL ARE TO BE SAFELY DISCONNECTED WITH ALL WIRING, CONDUIT, AND CONTROLS REMOVED AND TAKEN BACK TO SOURCE. RELABEL BREAKERS ACCORDINGLY.

B. TURN OVER ALL LAMPS FROM FIXTURES TO BE REMOVED TO SCHOOL.

C. EXISTING LIGHTING, AND RECEPTACLE CIRCUITS ARE TO BE REUSED FOR CONNECTION TO NEW LIGHT FIXTURES, CONTROLS, AND RECEPTACLES.

SPECIFIC

- EXISTING CABLE TRAY IN CORRIDOR TO REMAIN. REWORK CABLES AS REQUIRED IN AREAS OF DEMOLITION.
- REMOVE EXISTING LIGHTS AND SWITCHES IN GYM COMPLETE WITH EXISTING LIGHTING CIRCUIT AND CONTROLS BACK TO SOURCE PANEL.
- EXHAUST FAN EF-7 AND EF-8 ARE TO BE REMOVED CW VARIABLE FREQUENCY DRIVES, DISCONNECT SWITCHES FOR SYSTEM, AND ASSOCIATED WIRING UP TO SOURCE PANEL. COORDINATE WITH MECHANICAL TRADE. RELABEL ALL BREAKERS ON PANEL DIRECTORIES AS SPARE.
- CONTRACTOR IS TO REMOVE EXISTING PANEL 'C', AND PULL BACK EXISTING FEEDER TO A SUITABLY SIZED JUNCTION BOX IN CEILING SPACE OR CRAWL SPACE IF FED FROM BELOW FOR EXTENSION TO NEW PANEL 'C' LOCATION. PULL BACK BRANCH CIRCUITS TO SUITABLY SIZED JUNCTION BOX IN CEILING SPACE FOR EXTENSION TO NEW PANEL 'C' LOCATION. REFER TO RENOVATION PLANS FOR NEW LOCATION.
- ELECTRICAL CONTRACTOR IS TO MAINTAIN EXISTING CLOCK CIRCUIT, CONTROL WIRING, AND CONDUITS FOR EXTENSION TO NEW LOCATION AS INDICATED ON RESOURCE ROOM RENOVATION DRAWINGS.
- ELECTRICAL CONTRACTOR IS TO REMOVE ELECTRICAL CONNECTIONS TO FAN COIL LOCATED AT HIGH LEVEL. COORDINATE WITH MECHANICAL CONTRACTOR.

NOTE TO CONTRACTORS:

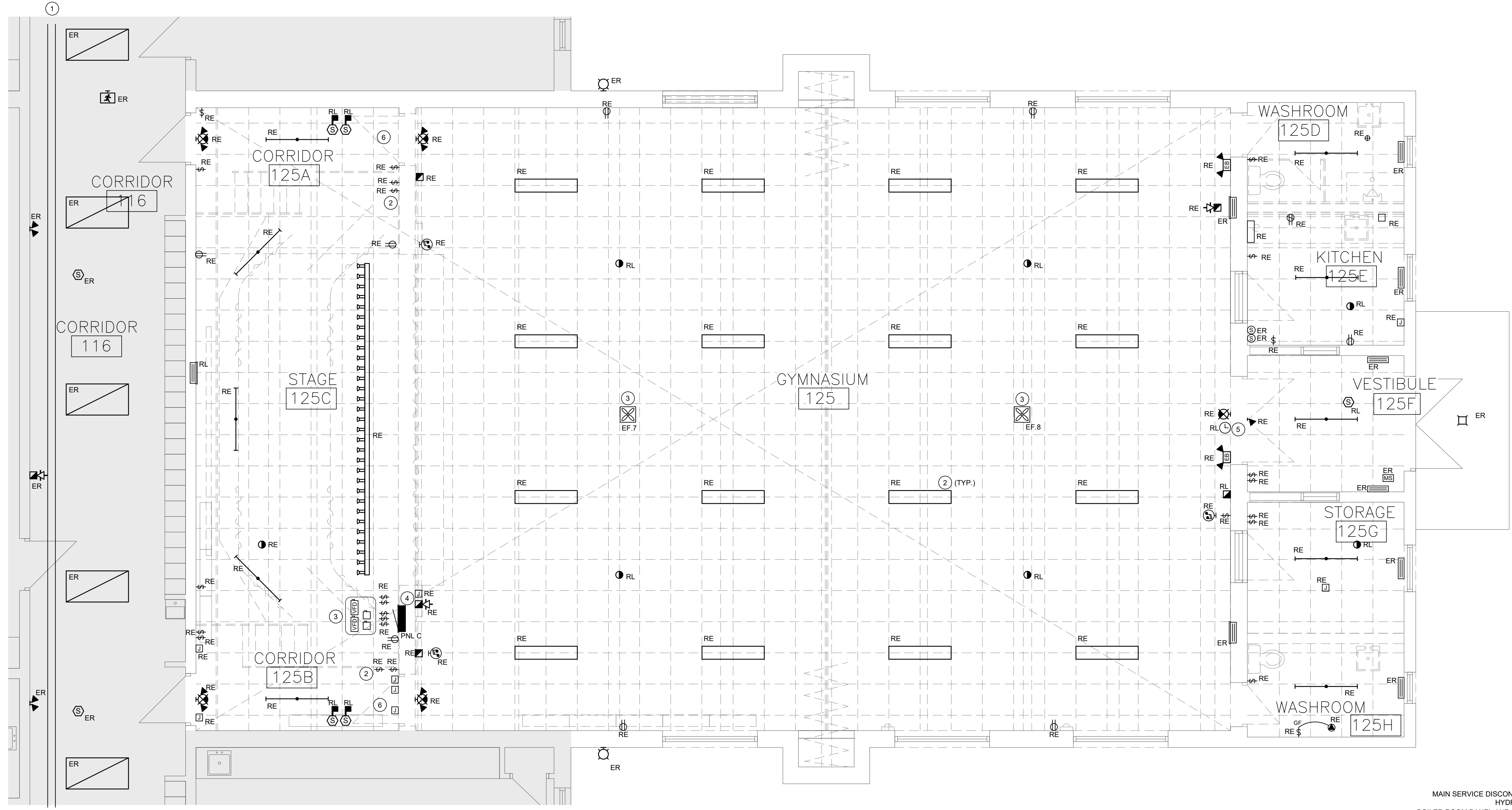
DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. ALL CONDUIT RUNS AND EQUIPMENT LOCATIONS ARE TO BE COORDINATED WITH STRUCTURAL ELEMENTS AND MECHANICAL EQUIPMENT.

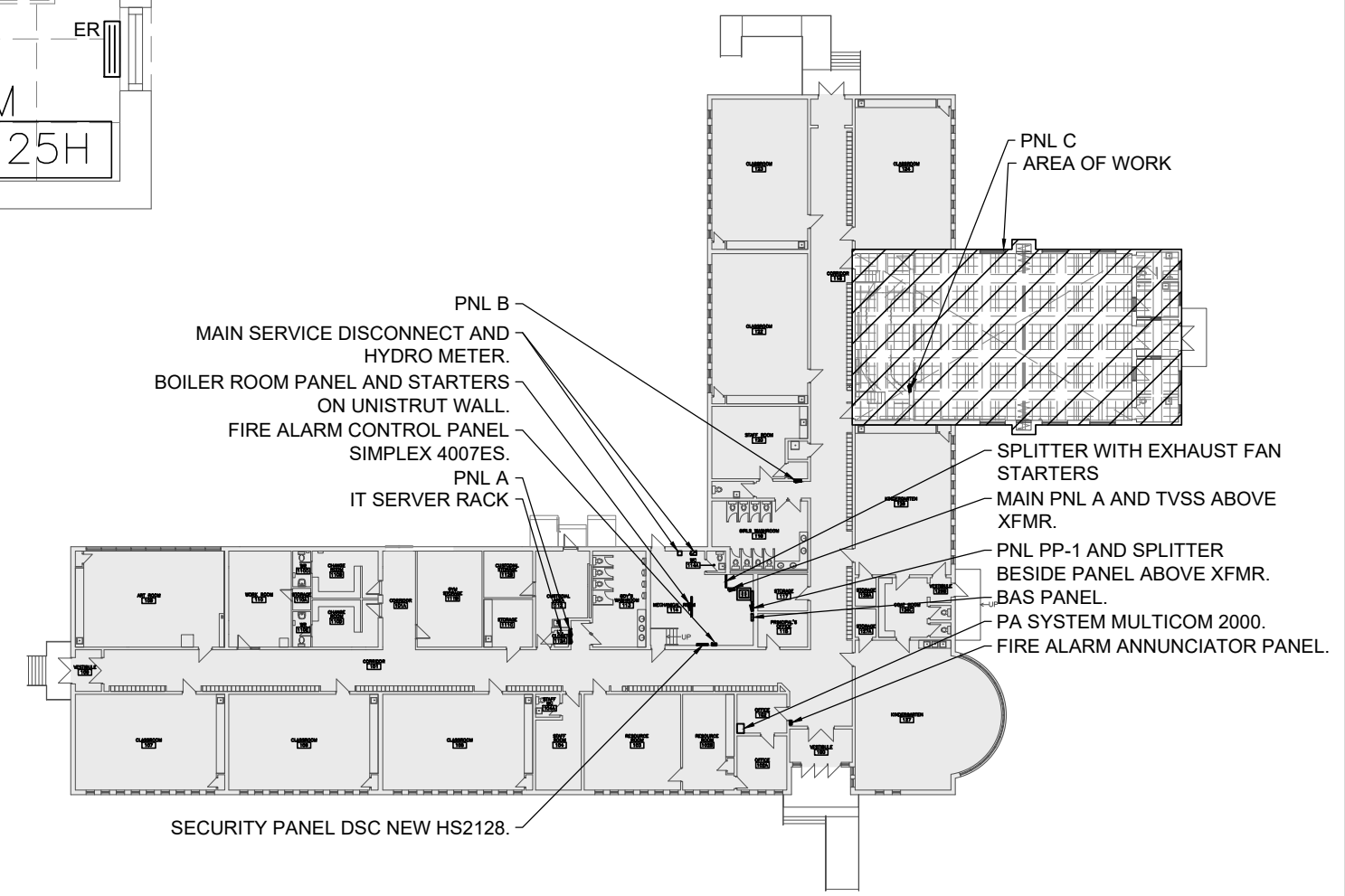
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NO.	DATE	REVISION
03	28 MAR 2024	FOR TENDER
02	13 MAR 2024	FOR PERMIT REVISION
01	19 DEC 2023	FOR REVIEW



1
E1.1 GYMNASIUM STAGE DEMOLITION PLAN
SCALE: 1:50



2
E1.1 GROUND FLOOR KEY PLAN
SCALE: 1:500

Project North

LICENSED PROFESSIONAL ENGINEER
24 08 23
J. B. ACRI
10005743
PROVINCE OF ONTARIO

FORTECH ENGINEERING

202-420 Sheldon Dr. P 519-745-2900
Cambridge, ON JAcri@FortechEng.com
N1T 2H9

PROJECT # 10014

PROJECT

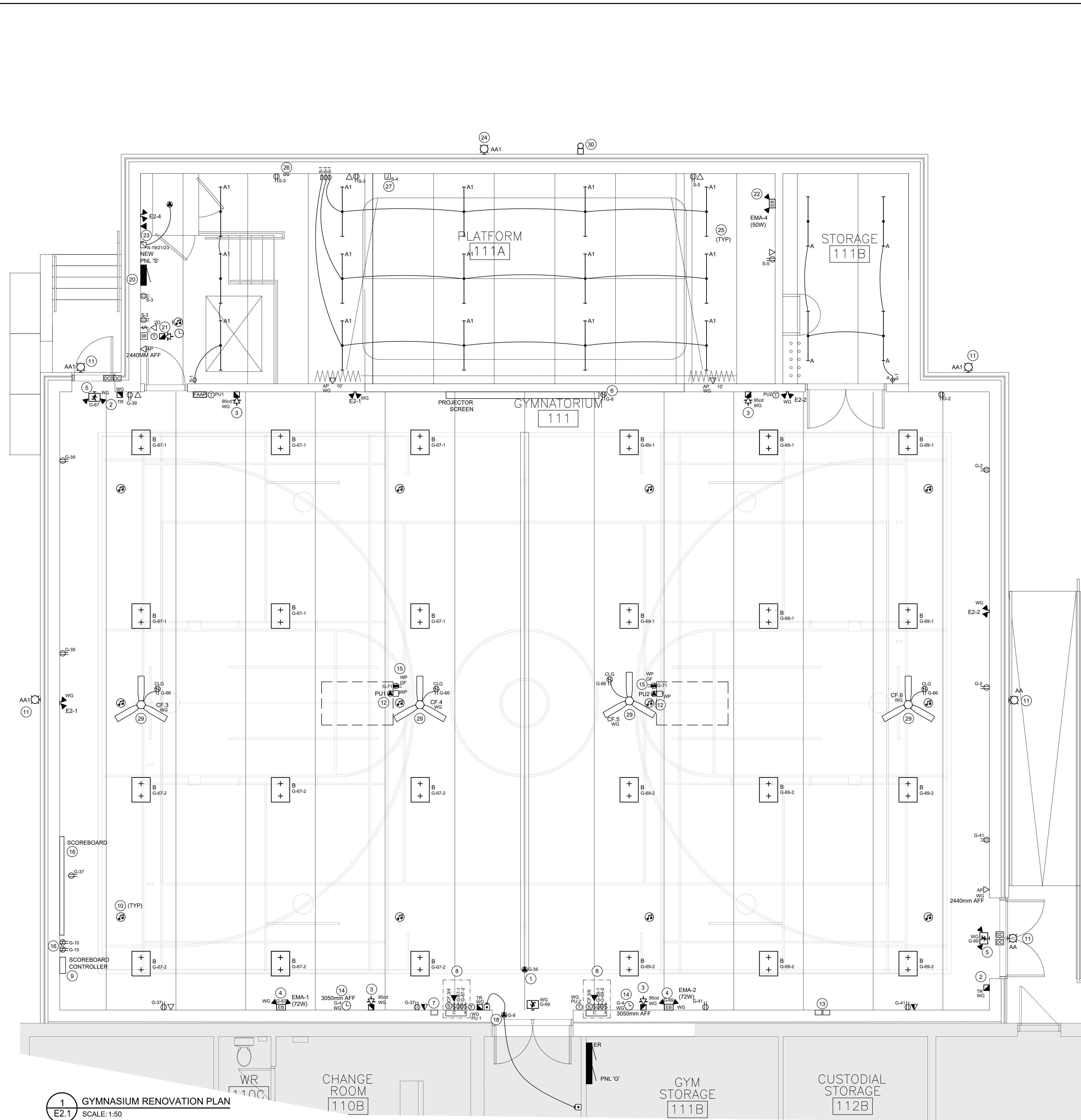
ROSDALE ELEMENTARY SCHOOL - PHASE 2

25 Erindale Ave., Hamilton, ON

DRAWING NAME

GYM ELECTRICAL DEMOLITION PLAN

PLOT DATE	DRAWN BY
28 MAR 2024	N.Drummond
SCALE	CHECKED BY
AS NOTED	J. Acri
JOB NO.	DWG NO.
17024	E1.1



RENOVATION NOTES

- GENERAL**
- EMERGENCY LIGHTING HAS BEEN DESIGNED USING 7W LED MR16 LAMPS TO MAINTAIN 1FC AVERAGE AND 0.1FC MINIMUM REQUIRED BY THE CBC. CONTRACTOR SHALL NOT CHANGE LAMP SIZE OR TYPE WITHOUT PRIOR WRITTEN PERMISSION OF ENGINEER. FAILURE TO COMPLY WILL PREVENT SIGN-OFF OF BUILDING PERMIT.
 - CONNECT ALL EMERGENCY LIGHTING EQUIPMENT TO LINE SIDE OF LOCAL LIGHTING CIRCUITS.
 - OPERATION OF ALL EXIT AND EMERGENCY LIGHTING IS TO BE DEMONSTRATED TO ENGINEER AND BUILDING INSPECTOR FOR CORRECT OPERATION.
 - COORDINATE ALL DEVICE LOCATIONS WITH MILLWORK PRIOR TO ROUGH-IN.
 - ALL DEVICES (UNLESS NOTED OTHERWISE) ARE TO BE FLUSH MOUNTED AND CONDUIT TO BE CONCEALED IN THE WALL.
 - CONTRACTOR IS TO MOUNT WIRING DEVICES AT HWDSB STANDARD HEIGHTS AS FOLLOWS:
 - F.A. RECEPTACLES AND DATA OUTLETS: 460mm (1'-6") AFF.
 - F.B. COUNTER RECEPTACLES AND DATA OUTLETS: 150mm (0'-6") ABOVE COUNTER.
 - ALL NEW RECEPTACLES IN GYMNASIUM, CSA CONFIGURATION 5-10R AND 5-20R, ARE TO BE TAMPER-RESISTANT.
 - CONTRACTOR IS TO PROVIDE AND INSTALL ALL VOICEDATA WIRING AND DEVICES, AV WIRING AND DEVICES, AND SECURITY WIRING AND DEVICES. COORDINATE WITH HWDSB APPROVED SUB-CONTRACTORS. REFER TO HWDSB SPECIFICATIONS FOR APPROVED CONTRACTORS LIST.
 - PROVIDE LABELS ON ALL NEW AND EXISTING WIRING DEVICES INDICATING PANEL AND CIRCUIT NUMBER. REFER TO DEVICE LABELING NOTE ON DRAWING FOR MORE INFORMATION.
 - PROVIDE LABELS ON ALL GFCI PROTECTED WIRING DEVICES TO READ "GROUND FAULT PROTECTED".
 - FIRE ALARM DEVICES ARE TO BE INSTALLED IN CONFORMANCE WITH CANULC-S534M "INSTALLATION OF FIRE ALARM SYSTEMS", AND VERIFIED IN CONFORMANCE WITH CANULC-S537-M "VERIFICATION OF FIRE ALARM SYSTEMS".
 - ALL NEW LIGHTING CIRCUITS ARE TO BE PROVIDED WITH 20A-1P RELAYS (120V COIL) CONTROLLED FROM NEW LIGHTING CONTROL RELAY PANEL ADJACENT BAS PANEL.
 - ALL MOUNTING HEIGHTS IN GYM TO BE CONFIRMED PRIOR TO ROUGH-IN. NO DEVICE, EXCEPT SCOREBOARD TO BE ABOVE 3050mm FOR HWDSB MAINTENANCE REQUIREMENTS.
 - ALL WIRING AND COMMUNICATION DEVICES ARE TO BE RECESSED IN WALLS WITH CONCEALED CONDUIT. SURFACE RACEWAY IS NOT ACCEPTABLE. CONTRACTOR TO COORDINATE ALL ROUGH-IN DURING INSTALLATION OF BLOCK WALLS IN GYM AND STAGE ADDITION.
- SPECIFIC**
- INDICATES DIVIDER CURTAIN POWER CONNECTION. PROVIDE 27mm (1") CONDUIT TO CONTROL SWITCH IN GYM CONTROL PANEL. COORDINATE EXACT REQUIREMENTS FROM SUPPLIER.
 - CONNECT NEW INITIATING DEVICE TO NEW GYMNASIUM INITIATING CIRCUIT. ALL WIRING IS TO BE SUPERVISED. REVERIFY FIRE ALARM SYSTEM.
 - CONNECT NEW SIGNAL DEVICE TO NEW GYMNASIUM HORN/STROBE CIRCUIT. ALL WIRING IS TO BE SUPERVISED. REVERIFY FIRE ALARM SYSTEM.
 - CONNECT NEW BATTERY UNIT TO LINE SIDE OF LOCAL LIGHTING CIRCUIT.
 - CONNECT NEW COMBINATION EXIT SIGN TO LINE SIDE OF LOCAL LIGHTING CIRCUIT.
 - INDICATES RECEPTACLE FOR MOTORIZED PROJECTOR SCREEN. PROVIDE 27mm (1") CONDUIT TO NEAREST GYM CONTROL PANEL.
 - INDICATES LOCATION OF SCOREBOARD CONTROL CONSOLE OES SCOREBOARDS CAT # ISC9000. PROVIDE AN OUTLET BOX ON WALL WITH 4mm (1/2") CONDUIT C/W PULL STRING TO SCOREBOARD CONTROLLER. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURERS INSTRUCTIONS AND LOCATION WITH GENERAL CONTRACTOR, ARCHITECT, AND HWDSB PRIOR TO ROUGH-IN.
 - INDICATES GYM CONTROL PANEL A. PROVIDE NEW FLUSH MOUNT GYM CONTROL PANEL AND ITS DEVICES. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR AND HWDSB PRIOR TO ROUGH-IN. PROVIDE 1-21mm (3/4") CONDUIT TO GYM CURTAIN MOTOR. 1-21mm (3/4") CONDUIT TO FAN. 1-21mm (3/4") CONDUIT TO PA DEVICES, AND 1-21mm (3/4") CONDUIT TO MOTORIZED PROJECTOR SCREEN. REFER TO TYPICAL RECESSED GYM PANEL DETAIL. COORDINATE ALL DEVICES WITH ASSOCIATED SUPPLIERS PRIOR TO INSTALLATION.
 - PROVIDE 27mm (1") CONDUIT C/W PULL STRING FROM SCOREBOARD CONTROLLER TO SCOREBOARD. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURERS INSTRUCTIONS PRIOR TO ROUGH-IN.
 - SURFACE CEILING MOUNTED SPEAKERS ARE TO BE MANUFACTURED BY MOBBIDE CAT# 8L922-19 COMPLETE WITH MULTI TAP DUAL VOLTAGE TRANSFORMER CAT# MTC025. SURFACE CEILING BACKBOX, AND WALL Baffle CAT# MC25SQ. PA CALL BUTTON CAT# MSCW-1 AND PA HANDSET ON GYM CONTROL PANEL B. COORDINATE INTERCOM SYSTEM SPECIFICATIONS WITH MOBBIDE PRIOR TO ORDER. PROVIDE 21mm (3/4") CONDUIT TO PA HEAD END IN MAIN OFFICE, AND 21mm (3/4") CONDUIT TO GYM CONTROL PANEL.
 - CONNECT NEW EXTERIOR LIGHTING TO EXISTING EXTERIOR CIRCUIT AND CONTROL. CONFIRM VOLTAGE AND CIRCUIT LOAD PRIOR TO ORDERING AND INSTALLATION.
 - INDICATES NEW ROOF-TOP UNIT FED FROM NEW 70A-3P BREAKERS IN 600V SIEMENS TYPE P2 EXISTING DISTRIBUTION PANEL A. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
 - PROVIDE TWO SINGLE-GANG OUTLETS AT RECEPTACLE HEIGHT C/W 2-1" CONDUITS C/W PULL STRINGS TO STAGE BESIDE PANEL S FOR FUTURE STAGE LIGHTING AND AUDIO CONTROLS.
 - PROVIDE NEW PRINEX ANALOG CLOCK COMPATIBLE WITH EXISTING P.A. AND CLOCK SYSTEM C/W 120V CONNECTION AND 21mm (3/4") CONDUIT TO MAIN OFFICE. COORDINATE EXACT REQUIREMENTS WITH CURRENT CLOCK SYSTEM PRIOR TO ROUGH-IN.
 - FOR MAINTENANCE OF ROOF TOP UNITS SUPPLY AND INSTALL CSA CONFIGURATION 5-20R CLASS A GFI TYPE RECEPTACLE IN A WEATHER PROOF ENCLOSURE MOUNTED WITHIN 7.5m OF MECHANICAL EQUIPMENT. MOUNTING HEIGHT SHALL NOT BE LESS THAN 750mm ABOVE FINISHED FLOOR.
 - ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL OES SCOREBOARDS CAT # 5205 SCOREBOARD WITH ISC9000 CONTROL CONSOLE AND ASSOCIATED RECEPTACLES. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH MANUFACTURERS INSTRUCTIONS AND LOCATION WITH GENERAL CONTRACTOR, ARCHITECT, AND HWDSB PRIOR TO ROUGH-IN.
 - RESERVED.
 - PROVIDE OUTLET BOXES FOR DOOR OPERATOR C/W 16mm CONDUIT TO AUTOMATIC DOOR OPERATOR. PROVIDE NOTED 120V POWER TO DOOR OPERATOR AND COORDINATE ALL REQUIREMENTS WITH DOOR HARDWARE SUPPLIER. COORDINATE LOCATION OF OPERATOR PUSHBUTTONS WITH ARCHITECTURAL DETAILS PRIOR TO ROUGH-IN.
 - RESERVED.
 - FEED NEW PANEL 'S' FROM AN EXISTING 60A-3P BREAKER IN PANEL 'G' LOCATED IN GYM STORAGE 111B USING 4#6 T90 CU IN 27mm EMT CONDUIT. REFER TO PANEL SCHEDULES FOR MORE INFORMATION.
 - CONNECT NEW SIGNAL DEVICE TO EXISTING LOCAL HORN/STROBE CIRCUIT. ALL WIRING IS TO BE SUPERVISED. REVERIFY FIRE ALARM SYSTEM.
 - CONNECT NEW BATTERY UNIT TO LINE SIDE OF LOCAL LIGHTING CIRCUIT.
 - PROVIDE 30A-3P DISCONNECT SWITCH WITH 20A CLASS J FUSE AND NOTED POWER FOR BARRIER FREE LIFT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GENERAL CONTRACTOR AND SUPPLIER PRIOR TO ROUGH-IN.
 - CONNECT NEW EXTERIOR LIGHTING TO EXISTING EXTERIOR CIRCUIT AND CONTROL. CONFIRM VOLTAGE AND CIRCUIT LOAD PRIOR TO ORDERING AND INSTALLATION.
 - DASHED LINE INDICATES PIPE RAILS FOR FUTURE STAGE LIGHTING SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR IS TO INSTALL LIGHTS CLOSE TO STRUCTURE ABOVE PIPE RAILS. COORDINATE ON SITE PRIOR TO INSTALLATION. TERMINATE FUTURE STAGE LIGHTING AND SOUND CONTROL CONDUITS FROM GYM 'F' AFF.
 - INDICATES ROUGH-IN FOR FUTURE STAGE LIGHTING POWER. INSTALL OUTLET BOX ON STRUCTURE CEILING.
 - RESERVED.
 - TYPE CF 3, CF 4, CF 5, AND CF 6 CEILING FANS TO BE SUSPENDED ON 36" DOWNROD. COMPLETE WITH BANVIL CAT # MODEL F660F TOP COVER AND BANVIL 2000 CAT # MODEL F660F BOTTOM COVER. CONTROLLED VIA BANVIL CAT # 105FR INDUSTRIAL FAN WALL CONTROL. PROVIDE NEW PROGRAM BELL TO EXTERIOR AT 3m AFF. COORDINATE WITH PA SUPPLIER FOR EXACT WIRING REQUIREMENTS PRIOR TO ROUGH-IN.
 - AT BAS PANEL LOCATION (REFER TO KEYPLAN), PROVIDE NEW LIGHTING CONTROL RELAY FED FROM NEW 15A-1P BREAKER. RELAY TO HAVE 24V COIL FED FROM BAS FOR MASTER CONTROL OF LIGHTING C/W HAND-OFF-AUTO SELECTOR SWITCH. ALL NEW LIGHT CIRCUITS TO BE PROVIDED WITH NEW 20A-1P LIGHTING RELAYS WITH 120V COILS FED FROM ABOVE NOTED LIGHTING RELAY. COORDINATE EXACT REQUIREMENTS WITH BAS SUPPLIER.

NOTE TO CONTRACTORS:

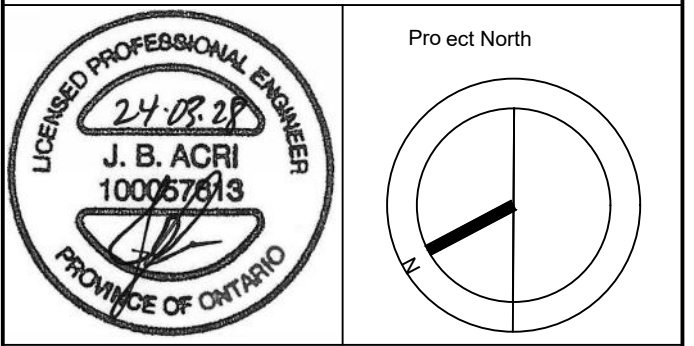
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THE DRAWINGS ARE TO BE READ AND DESIGNED IN CONJUNCTION WITH THE SPECIFICATIONS.

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NO.	DATE	REVISION
03	28 MAR 2024	FOR TENDER
02	13 MAR 2024	FOR PERMIT REVISION
01	19 DEC 2023	FOR REVIEW



FORTECH ENGINEERING

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PROJECT # 10014

PROJECT

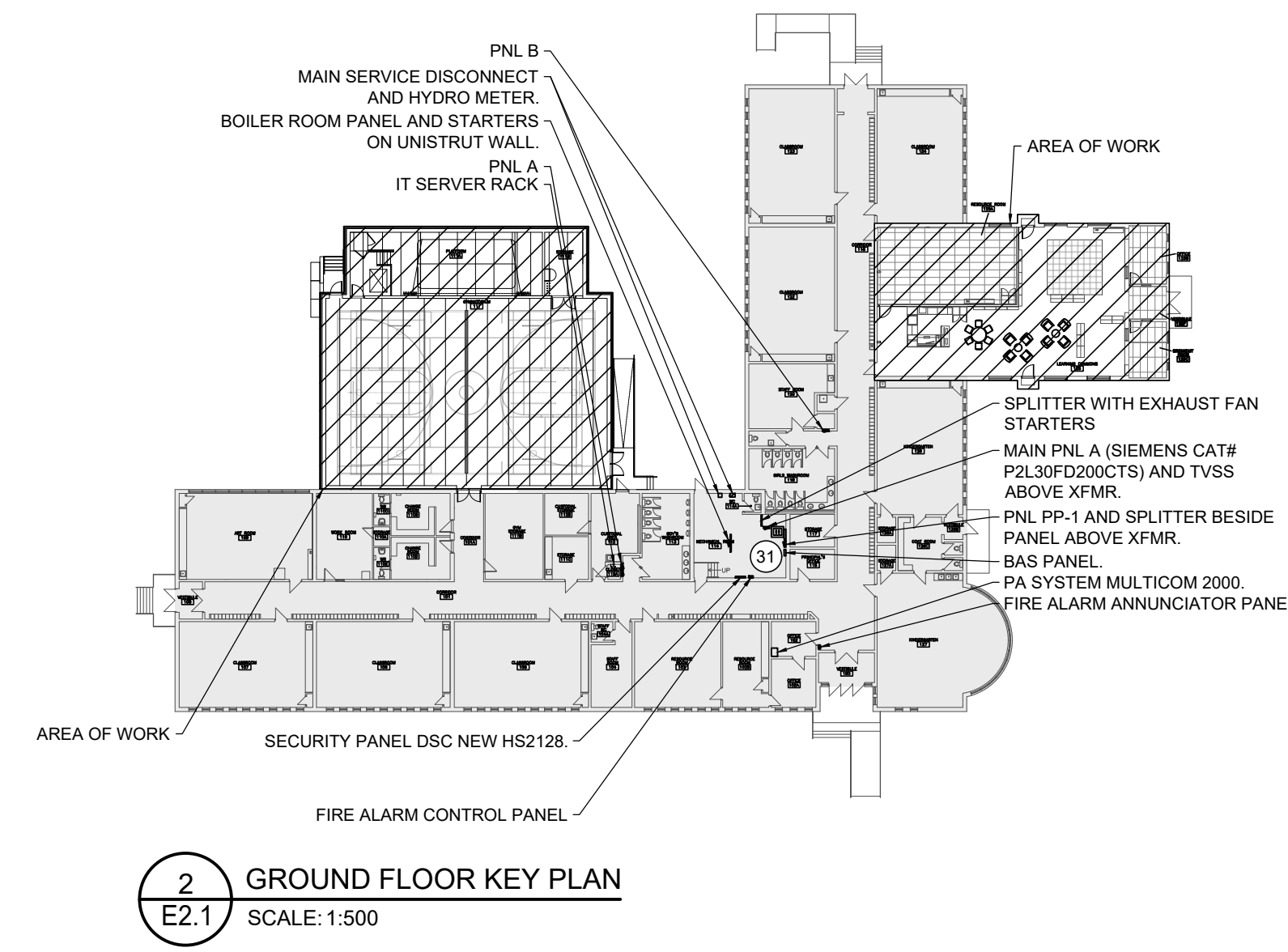
ROSDALE ELEMENTARY SCHOOL - PHASE 2

25 Erindale Ave., Hamilton, ON

DRAWING NAME

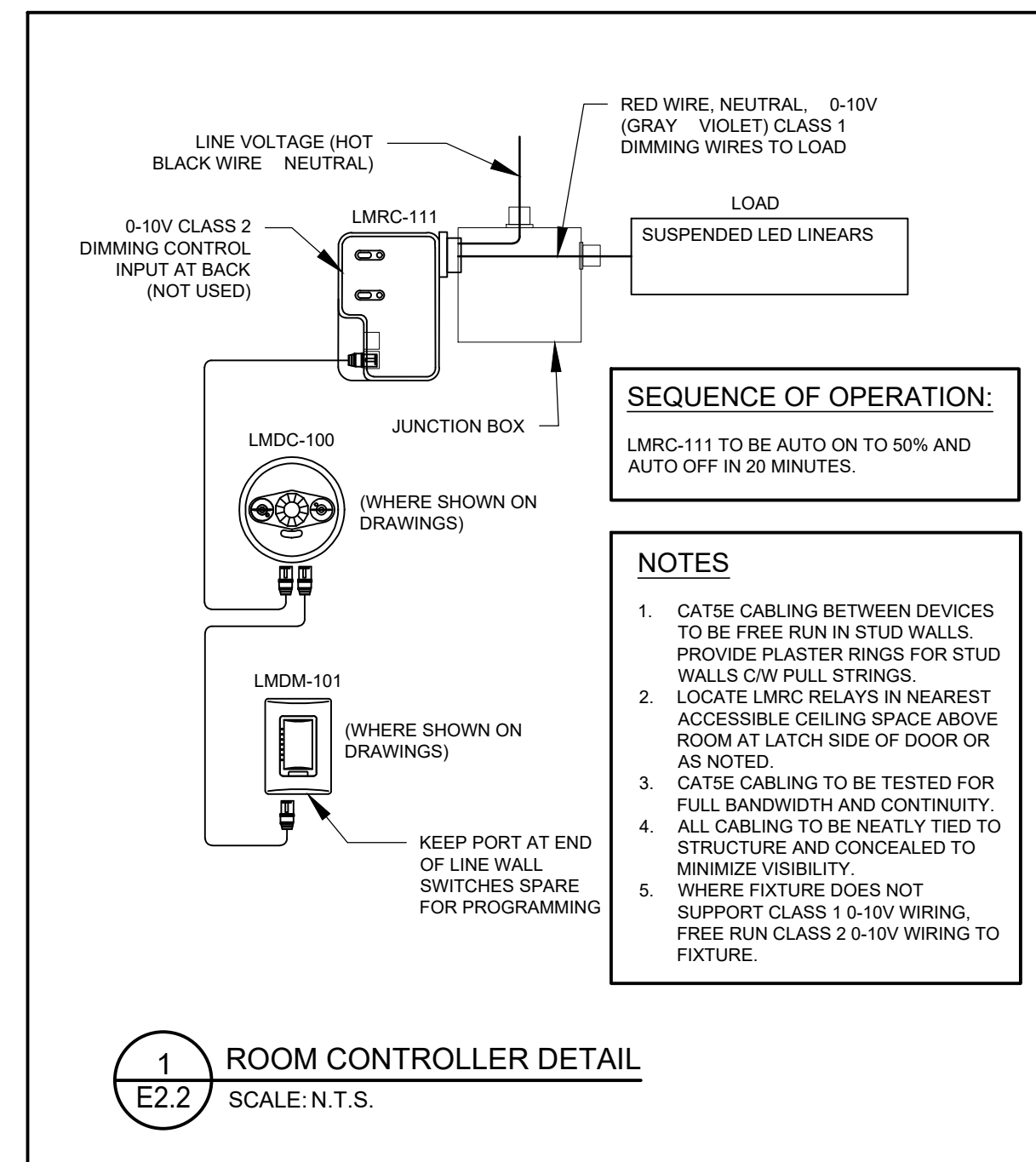
ELECTRICAL RENOVATION PLANS

PLOT DATE	28 MAR 2024	DRAWN BY	N.Drummond
SCALE	AS NOTED	CHECKED BY	J. Aciri
JOB NO.	17024	DWG NO.	E2.1

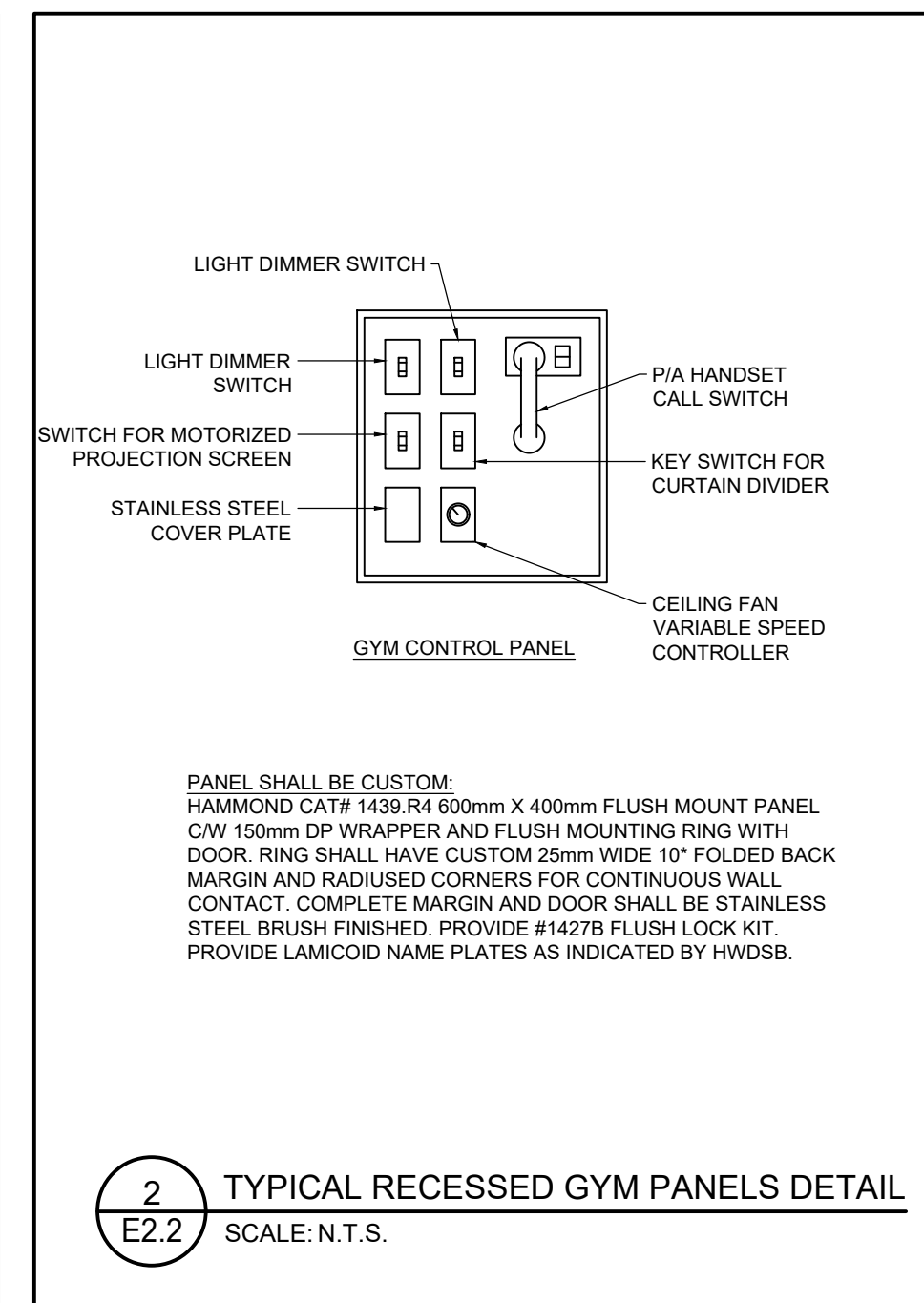


2 GROUND FLOOR KEY PLAN
SCALE: 1:500

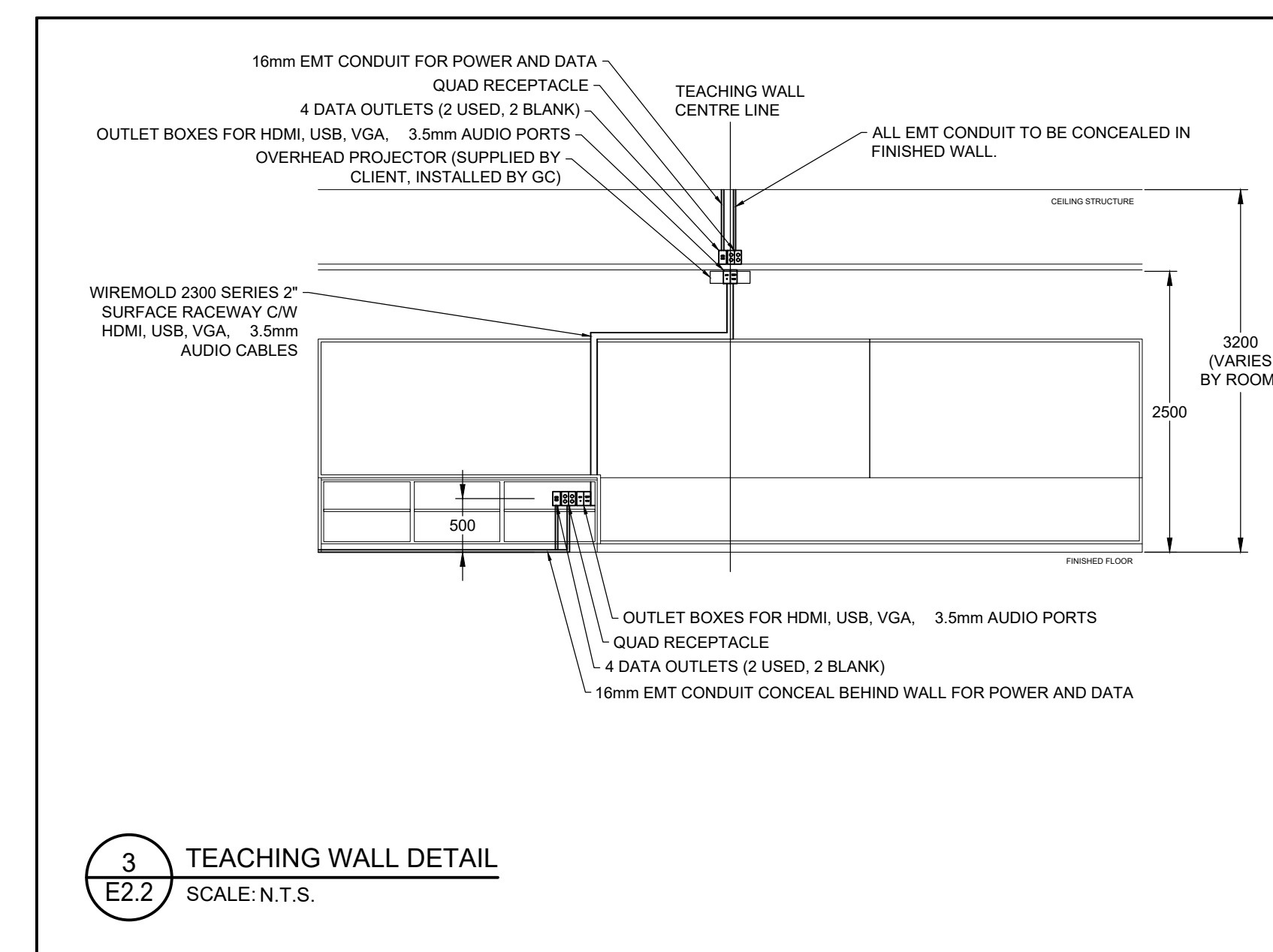
1 GYMNASIUM RENOVATION PLAN
SCALE: 1:50



1 ROOM CONTROLLER DETAIL
SCALE: N.T.S.



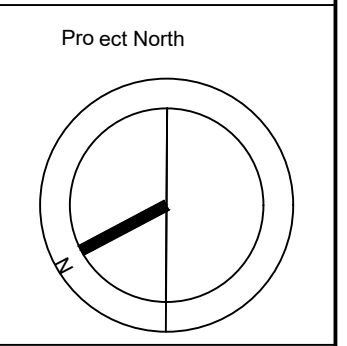
2 TYPICAL RECESSED GYM PANELS DETAIL
SCALE: N.T.S.



3 TEACHING WALL DETAIL
SCALE: N.T.S.

NOTE TO CONTRACTORS:
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THE DRAWINGS ARE TO BE READ AND DESIGNED IN CONJUNCTION WITH THE SPECIFICATIONS.
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FORTECH ENGINEERING

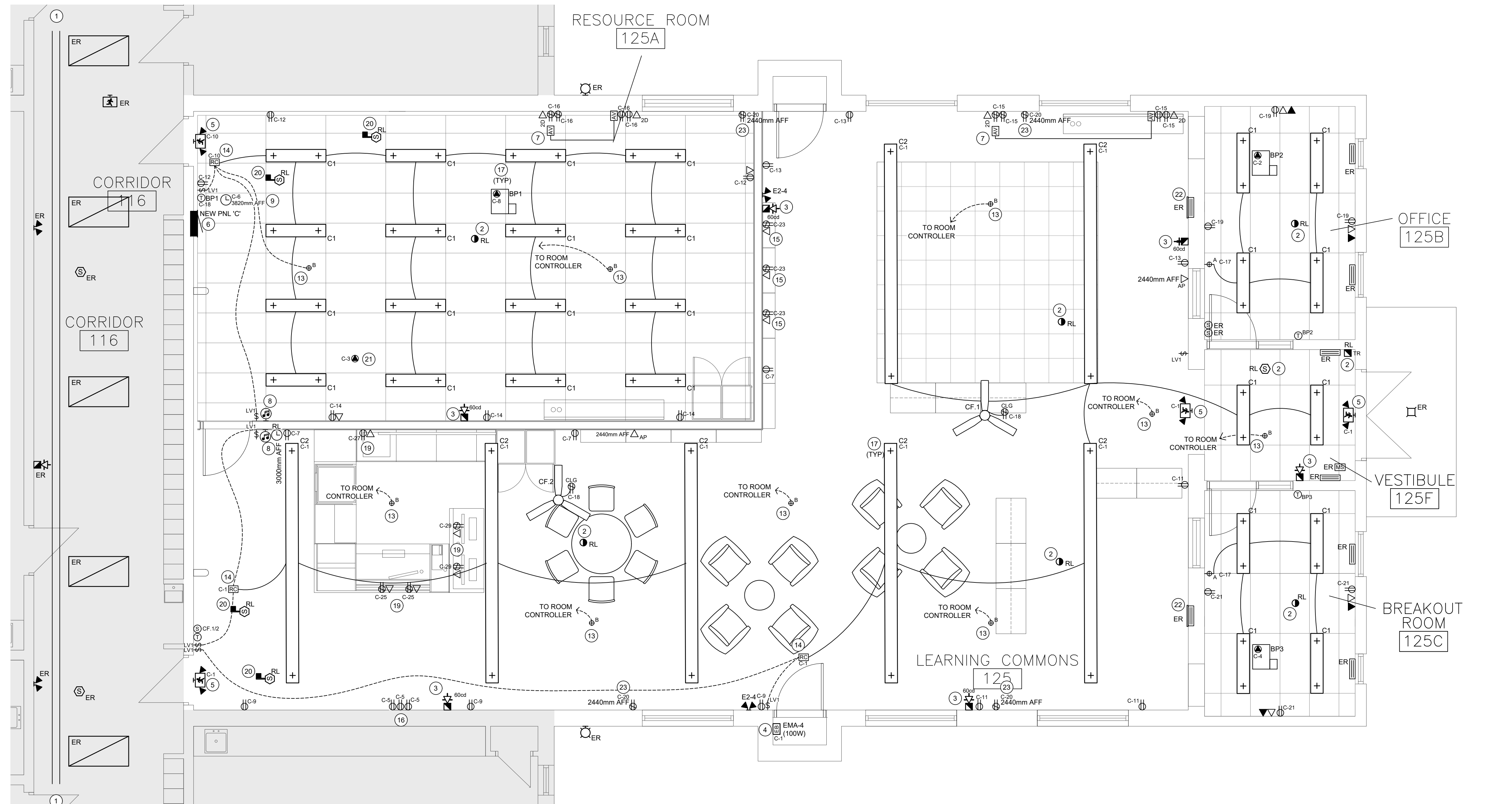
202-420 Sheldon Dr. P 519-745-2900
Cambridge, ON JAcri@FortechEng.com
N1T 2H9

PROJECT # 10014

PROJECT
ROSDALE ELEMENTARY SCHOOL - PHASE 2
25 Erindale Ave., Hamilton, ON

DRAWING NAME
ELECTRICAL DETAILS

PLOT DATE 28 MAR 2024	DRAWN BY N.Drummond
SCALE AS NOTED	CHECKED BY J. Acri
JOB NO. 17024	DWG NO. E2.2



RENOVATION NOTES

GENERAL

- COORDINATE ALL DEVICE LOCATIONS WITH MILLWORK PRIOR TO ROUGH-IN.
- EMERGENCY LIGHTING HAS BEEN DESIGN USING 7W LED MR16 LAMPS TO MAINTAIN 1FC AVERAGE AND 0.1FC MINIMUM REQUIRED BY THE OBC. CONTRACTOR SHALL NOT CHANGE LAMP SIZE OR TYPE WITHOUT PRIOR WRITTEN PERMISSION OF ENGINEER. FAILURE TO COMPLY WILL PREVENT SIGN-OFF OF BUILDING PERMIT.
- CONNECT ALL EMERGENCY LIGHTING EQUIPMENT TO LINE SIDE OF LOCAL LIGHTING CIRCUITS.
- OPERATION OF ALL EXIT AND EMERGENCY LIGHTING IS TO BE DEMONSTRATED TO ENGINEER AND BUILDING INSPECTOR FOR CORRECT OPERATION.
- COORDINATE ALL DEVICE LOCATIONS WITH MILLWORK PRIOR TO ROUGH-IN.
- ALL DEVICES (UNLESS NOTED OTHERWISE) ARE TO BE FLUSH MOUNTED AND CONDUIT TO BE CONCEALED IN THE WALL.
- ALL NEW RECEPTACLES IN CLASSROOMS, CSA CONFIGURATION 5-15R AND 5-20R, ARE TO BE TAMPER-RESISTANT.
- ALL EXISTING RECEPTACLES IN CLASSROOMS ARE TO BE REPLACED WITH TAMPER-RESISTANT RECEPTACLES.
- CONTRACTOR IS TO PROVIDE AND INSTALL ALL VOICE/DATA WIRING AND DEVICES, ANY WIRING AND DEVICES, AND SECURITY WIRING AND DEVICES. COORDINATE WITH HWDSB APPROVED SUB-CONTRACTORS. REFER TO HWDSB SPECIFICATIONS FOR APPROVED CONTRACTORS LIST.
- NEW WIRING DEVICES TO MATCH EXISTING HEIGHT.
- PROVIDE LABELS ON ALL NEW AND EXISTING WIRING DEVICES INDICATING PANEL AND CIRCUIT NUMBER. REFER TO DEVICE LABELING NOTE ON DRAWING FOR MORE INFORMATION.
- PROVIDE LABELS ON ALL GFCI PROTECTED WIRING DEVICES TO READ "GROUND FAULT PROTECTED".
- FIRE ALARM DEVICES ARE TO BE INSTALLED IN CONFORMANCE WITH CANULC-S524M "INSTALLATION OF FIRE ALARM SYSTEMS", AND VERIFIED IN CONFORMANCE WITH CANULC-S527-M "VERIFICATION OF FIRE ALARM SYSTEMS". ALL RECEPTACLES TO HAVE TAMPER PROOF COVER WITH AUDIBLE ALERT ON COVER REMOVAL.
- ALL NEW LIGHTING CIRCUITS ARE TO BE PROVIDED WITH 20A-1P RELAYS (120V COIL) CONTROLLED BY NEW LIGHTING CONTROL RELAY PANEL ADJACENT GAS PANEL.
- PROVIDE CONDUITS FOR ALL SECURITY DEVICES BACK TO SECURITY PANEL. COORDINATE WITH HWDSB APPROVED SCHOOL PRIOR TO TENDER FOR EXACT REQUIREMENTS.
- ALL WIRING AND COMMUNICATION DEVICES ARE TO BE RECESSED IN WALLS WITH CONCEALED CONDUIT. EXPOSED WALLS ABOVE WINDOW SILLS (AT -8" AFF) SHALL BE EXPOSED EMT WHERE FURRED WALLS END. NO SURFACE EMT OR SURFACE RACEWAYS ARE ALLOWED ON FURRED OUT WALLS UNLESS SPECIFICALLY NOTED (I.E., TEACHING WALL WIREMOLD RACEWAY).

SPECIFIC

- EXISTING CABLE TRAY TO REMAIN. REWORK CABLES AS REQUIRED TO SUIT RENOVATION.
- CONNECT NEW/RELOCATED INITIATING DEVICE TO EXISTING LOCAL INITIATING CIRCUIT. ALL WIRING IS TO BE SUPERVISED. REVERIFY FIRE ALARM SYSTEM.
- CONNECT NEW SIGNAL DEVICE TO EXISTING LOCAL HORNSTROBE CIRCUIT. ALL WIRING IS TO BE SUPERVISED. REVERIFY FIRE ALARM SYSTEM.
- CONNECT NEW BATTERY UNIT TO LINE SIDE OF LOCAL LIGHTING CIRCUIT.
- CONNECT NEW COMBINATION EXIT SIGN TO LINE SIDE OF LOCAL LIGHTING CIRCUIT.
- ELECTRICAL CONTRACTOR IS TO EXTEND EXISTING FEEDER AND BRANCH CIRCUITS TO LOCATION OF NEW PANEL 'C' (100A 120/208V 1P 3W). REFER TO PANEL SCHEDULE FOR QUANTITY OF EXISTING CIRCUITS. CONTRACTOR TO SIZE CONDUITS AS REQUIRED BY OESC. REUSE/EXTEND CIRCUITS FOR ALL DEVICES NOTED AS REWIRE 'RW', RELOCATE 'RL' AND EXISTING TO REMAIN 'ER'. CONTRACTOR IS TO MAINTAIN ALL EXISTING DEVICES AND CIRCUITS OUTSIDE AREA OF WORK.
- REFER TO TEACHING WALL DETAIL FOR LOCATION AND INSTALLATION OF TEACHING BOARD DEVICES AND RACEWAY.
- RECESSED WALL MOUNTED PA SPEAKER IS TO BE MANUFACTURED BY MCRIDER CAT# BL822-19 COMPLETE WITH MULTI TAP DUAL VOLTAGE TRANSFORMER CAT# MCT7025, WALL BACKBOX CAT# MC20E, WALL BAFFLE CAT# MC25SQ WITH CALL BUTTON CUTOFF, AND CALL BUTTON CAT# MCSW-1. PROVIDE 21mm (3/4") CONDUIT TO PA HEAD END IN MAIN OFFICE. SPEAKER IS TO BE COMPATIBLE WITH EXISTING PA SYSTEM.
- PROVIDE NEW PRIMEX ANALOG CLOCK COMPATIBLE WITH EXISTING P.A. AND CLOCK SYSTEM GW 120V CONNECTION AND 21mm (3/4") CONDUIT TO MAIN OFFICE. COORDINATE EXACT REQUIREMENTS WITH CURRENT CLOCK SYSTEM PRIOR TO ROUGH-IN.
- RESERVED.
- FOR MAINTENANCE OF ROOF TOP UNITS SUPPLY AND INSTALL CSA CONFIGURATION 5-20R CLASS A GFI TYPE RECEPTACLE IN A WEATHER PROOF ENCLOSURE MOUNTED WITHIN 7.5m OF MECHANICAL EQUIPMENT. MOUNTING HEIGHT SHALL NOT BE LESS THAN 750mm ABOVE FINISHED FLOOR.
- INDICATES NEW ROOF-TOP UNIT FED FROM EXISTING DISTRIBUTION PANEL A. REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
- NOTED OCCUPANCY SENSORS ARE TO BE SUSPENDED ~3.0m AFF LEVEL WITH BOTTOM OF SURROUNDING FIXTURES USING 21mm C AND BALL ALIGNER.
- INDICATES ROOM CONTROLLER FOR LIGHTING CONTROL. REFER TO TYPICAL ROOM CONTROLLER DETAIL FOR MORE INFORMATION.
- RECEPTACLES AND DATA OUTLETS ARE TO BE INSTALLED APPROXIMATELY 6" DESK. COORDINATE WITH ARCHITECTURAL MILLWORK DRAWING AND MILLWORK CONTRACTOR PRIOR TO ROUGH-IN.
- INDICATES RECEPTACLES FOR TABLET CHARGING STATIONS. COORDINATE EXACT LOCATION WITH GC AND HWDSB PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL INTERIOR ELEVATIONS DRAWINGS FOR FIXTURE MOUNTING HEIGHTS AND DETAILS.
- TYPE OF CEILING FAN TO BE SUSPENDED 3.0M ABOVE FINISHED FLOOR. CONTROLLED VIA BANVIL 2000 CAT# 106FR INDUSTRIAL FAN WALL CONTROL.
- COORDINATE MOUNTINGS OF DEVICES IN CIRCULATION DESK WITH ARCHITECTURAL MILLWORK DRAWINGS.
- RELOCATE DUCT TYPE SMOKE DETECTORS TO NEW SUPPLY AND RETURN DUCTS OF EACH UNIT. REVERIFY DEVICES.
- PROVIDE POWER FOR CONTROL TRANSFORMERS FOR VAV BOXES. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL TENDER DRAWINGS AND CONTRACTOR PRIOR TO TENDER AND ROUGH-IN.
- CABINET UNIT HEATER TO REMAIN BUT BE DEACTIVATED.
- NOTED RECEPTACLES ARE FOR MOTORIZED BLIND POWER SUPPLIES. COORDINATE EACH MOUNTING LOCATION TO SUIT SHOP DRAWING PRIOR TO ROUGH-IN.

NOTE TO CONTRACTORS:

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THE DRAWINGS ARE TO BE READ AND DESIGNED IN CONJUNCTION WITH THE SPECIFICATIONS.

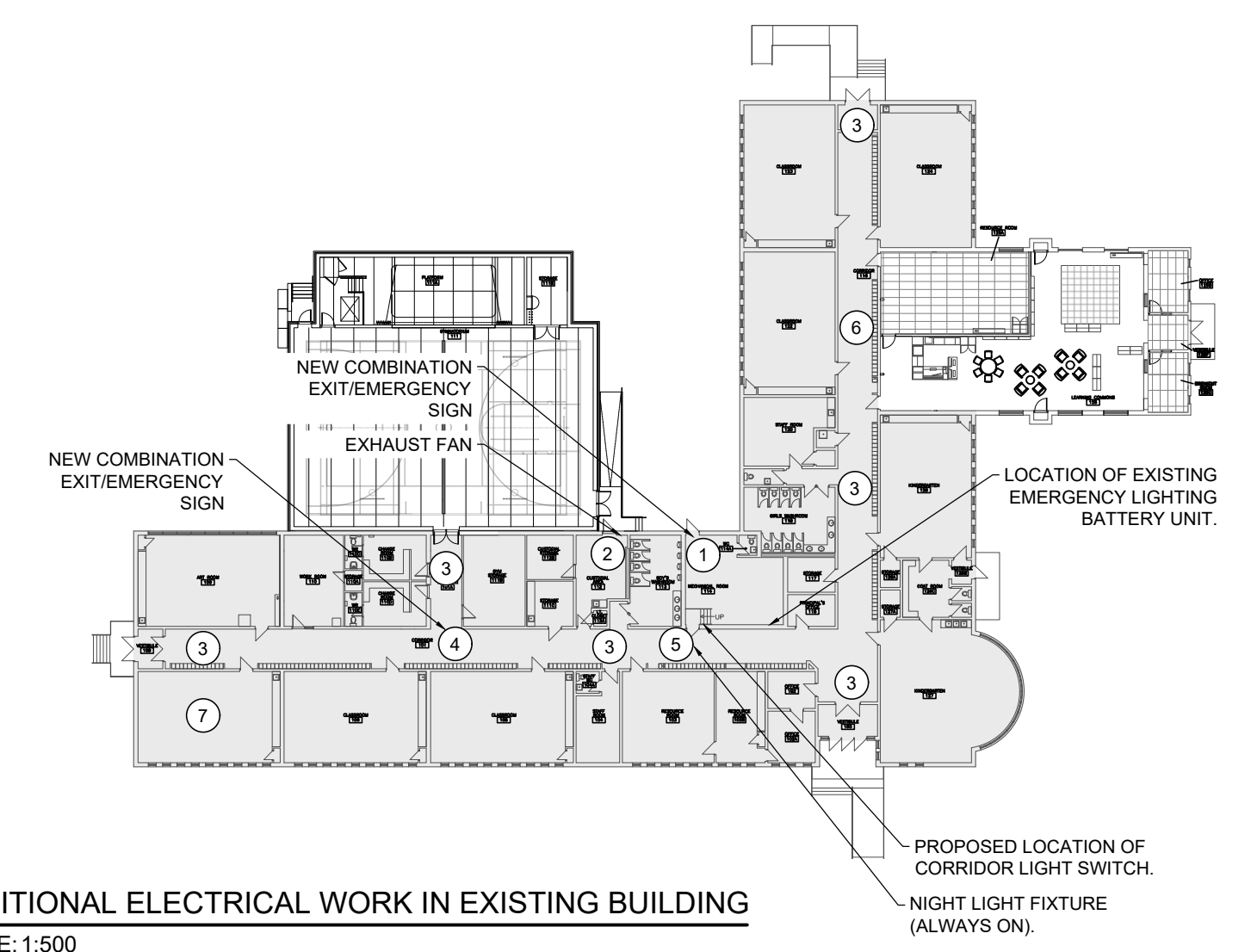
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NO.	DATE	REVISION
03	28 MAR 2024	FOR TENDER
02	13 MAR 2024	FOR PERMIT REVISION
01	19 DEC 2023	FOR REVIEW

24.03.24
J. B. ACRI
100057413
PROVINCE OF ONTARIO

Project North

1 LEARNING COMMONS RENOVATION PLAN
SCALE: 1:50



2 ADDITIONAL ELECTRICAL WORK IN EXISTING BUILDING
SCALE: 1:50

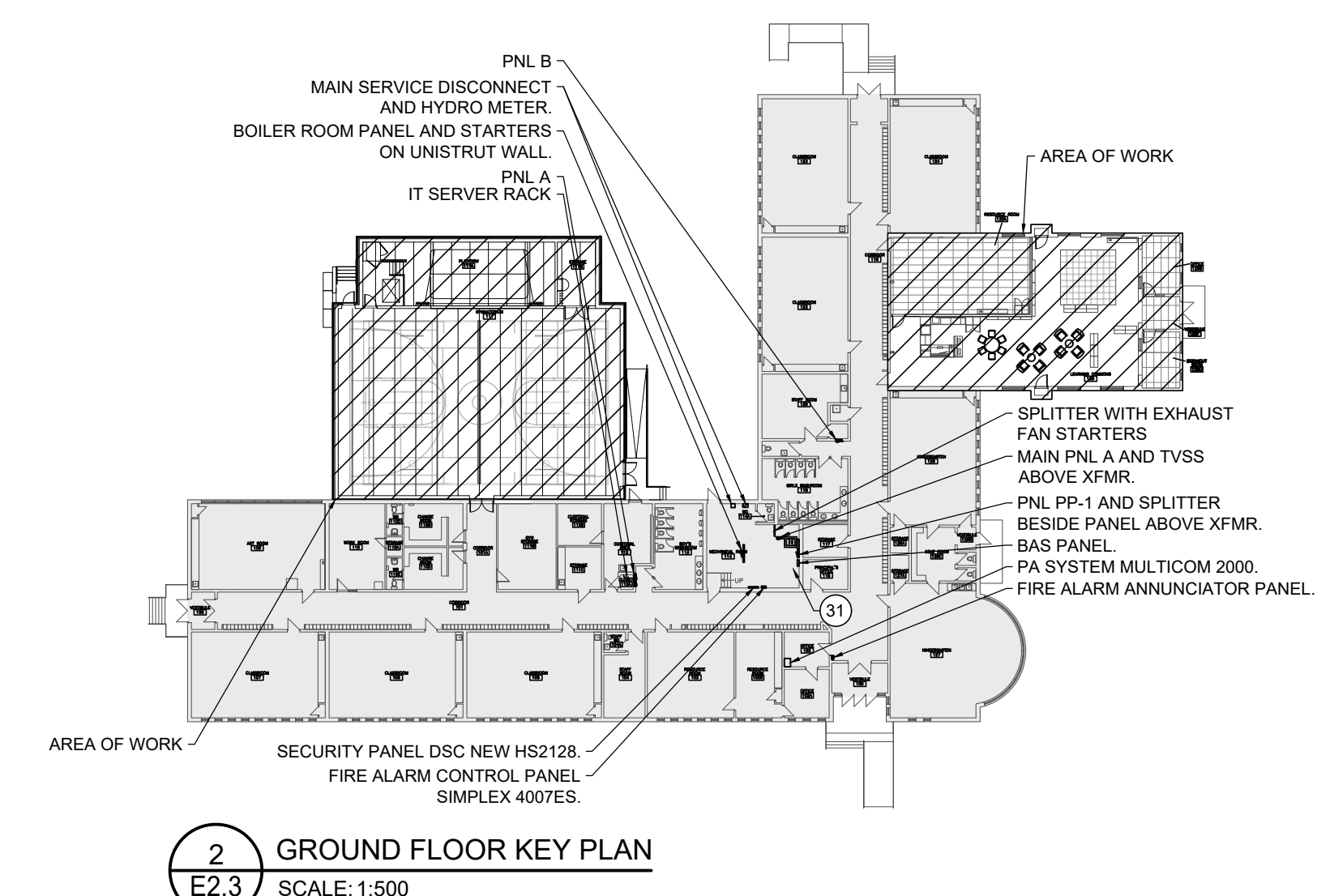
ADDITIONAL WORK IN EXISTING BUILDING NOTES

GENERAL

- CONNECT ALL EMERGENCY LIGHTING EQUIPMENT TO LINE SIDE OF LOCAL LIGHTING CIRCUITS.
- OPERATION OF ALL EXIT AND EMERGENCY LIGHTING IS TO BE DEMONSTRATED TO ENGINEER AND BUILDING INSPECTOR FOR CORRECT OPERATION.

SPECIFIC

- ELECTRICAL CONTRACTOR IS TO REWIRE EXISTING COMBINATION EXIT/EMERGENCY SIGN IN BOILER ROOM TO LINE SIDE OF LOCAL LIGHTING CIRCUIT.
- EXHAUST FAN IN CARETAKER OFFICE IS CURRENTLY CONTROLLED WITH THE LIGHTS. ELECTRICAL CONTRACTOR IS TO REWIRE EXHAUST FAN TO A SEPARATE SWITCH.
- ELECTRICAL CONTRACTOR IS TO REWIRE EXISTING CORRIDOR LIGHTS (29 2'x4" FIXTURES, AND 4 1'x4" FIXTURES) AND EMERGENCY BATTERY UNIT A NEW 20A-1P BREAKER IN PANEL PP-1 IN BOILER ROOM. ELECTRICAL CONTRACTOR IS TO MAINTAIN POWER TO OTHER DEVICES POWERED FROM EXISTING LIGHTING CIRCUITS. CONTRACTOR IS TO REPLACE EXISTING EMERGENCY BATTERY UNIT BREAKER WITH NEW 20A-1P BREAKER. ALL LIGHTS IN CORRIDOR AND VESTIBULE ARE TO BE REWIRED TO THE NEW BREAKER AND CONTROLLED BY A SWITCH LOCATED IN THE BOILER ROOM. BATTERY UNIT IS TO BE WIRED ON LINE SIDE OF LIGHTING CIRCUIT.
- NOTED COMBINATION EXIT/EMERGENCY SIGN IS TO BE WIRED ON LINE SIDE OF LIGHTING CIRCUIT.
- NOTED CORRIDOR FIXTURE IN FRONT OF BOILER ROOM IS TO BE ON NIGHT LIGHT CIRCUIT (ALWAYS ON).
- EMERGENCY LIGHTING DC CIRCUIT MAY BE AFFECTED BY GYM DEMOLITION. ELECTRICAL CONTRACTOR IS TO MAINTAIN AND/OR REWORK DC CIRCUIT.
- EXISTING RECEPTACLES IN ROOM ARE CURRENTLY NOT WORKING (APPROXIMATELY 5 RECEPTACLES). CONTRACTOR TO INVESTIGATE AND FIX WIRING TO MAKE RECEPTACLE OPERATIONAL.



2 GROUND FLOOR KEY PLAN
SCALE: 1:50

FORTECH ENGINEERING

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Cambridge, ON JAcri@FortechEng.com
NIT 2H9

PROJECT # 10014

PROJECT

ROSDALE ELEMENTARY SCHOOL - PHASE 2
25 Erindale Ave., Hamilton, ON

DRAWING NAME

LEARNING COMMONS ELECTRICAL RENOVATION PLAN

PLOT DATE	DRAWN BY
28 MAR 2024	N.Drummond
SCALE	CHECKED BY
AS NOTED	J. Acri
JOB NO.	DWG NO.
17024	E2.3

MECHANICAL EQUIPMENT WIRING SCHEDULE																																			
MECHANICAL EQUIPMENT DESCRIPTION					STARTER/DISCONNECT					CONTROLS					ADDITIONAL INFO																				
TYPE	EQUIPMENT / LOCATION	VOLTAGE / PHASE	SIZE	MOCF	FEEDER	MANUAL	MAGNETIC	COMBINATION	VFD STARTER	2-SPEED	HAND/OFF/AUTO	ON/OFF/AUTO	PISTON/STOP	PILOT LIGHT	DISC SWITCH	W/F DISC SWITCH	WRING BY	RA THERMOSTAT	RA THERMOSTAT	INTERMATIC ET200	INTERMATIC ET200	FIRE ALARM	VFD CONTROLLER	SPEED CONTROLLER	START/STOP PB	M/S SWITCH	LOC SENSOR	CONTROL PANEL	TAMPERPROOF CP	DUAL VOLTAGE RELAY	EMERGENCY	WRING BY	INTERLOCK	REMARKS	
PU1	PACKAGED ROOF TOP UNIT	600V/3	54 MCA	70A-3P	#8 CU																														
PU2	PACKAGED ROOF TOP UNIT	600V/3	54 MCA	70A-3P	#8 CU																														
BP1	BY-PASS AIR TERMINAL UNIT	120V/1	FHP	15A-1P	#12 CU																														
BP2	BY-PASS AIR TERMINAL UNIT	120V/1	FHP	15A-1P	#12 CU																														
BP3	BY-PASS AIR TERMINAL UNIT	120V/1	FHP	15A-1P	#12 CU																														

EXISTING PANEL G SCHEDULE

LOCATION: GYM STORAGE 111					VOLTAGE: 120/208V					KAIC RATING: 100A				
SUPPLY FROM: PP-1					PHASES: 3					MAINS TYPE: MLO				
MOUNTING: SURFACE					WIRES: 4					MAINS RATING: 225A				
ENCLOSURE: TYPE 2										MCB RATING: -				

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	ART. WORK - CHANGE ROOM LIGHTING	15A	1*				1	15A	GYM RECEPTACLES	2	43	SPARE	15A	1				2	15A	SPARE	44
3	STORAGE - CUSTODIAL ROOM LIGHTING	15A	1*				1	15A	GYM CLOCK	4	45	SPARE	15A	1				4	15A	SPARE	46
5	ART ROOM 109 REC.	15A	1				1	15A	GYM MOTORIZED PROJECTOR SCREEN	6	47	SPARE	15A	1				6	15A	SPARE	48
7	ART ROOM 109 TEACHING WALL REC.	15A	1				1	15A	AUTO DOOR OPERATOR	8	49	SPARE	15A	1				8	15A	SPARE	50
9	ART ROOM 109 OIC GF REC.	15A	1				1	15A	SCOREBOARD CONTROLLER RECEPTACLES	10	51	SPARE	15A	1				10	20A	SPARE	52
11	WORK ROOM 110 REC.	15A	1				1	15A	SPARE	12	53	SPARE	15A	1				12	15A	SPARE	54
13	WORK ROOM 110 REC.	15A	1				1	15A	SPARE	14	55	SPARE	15A	1				14	20A	SPARE	56
15	CHANGE ROOM 110B	15A	1				1	15A	SPARE	16	57	SPARE	15A	1				16	15A	SPARE	58
17	CHANGE ROOM 110D	15A	1				1	15A	SPARE	18	59	SPARE	15A	1				18	15A	SPARE	60
19	GYM CUSTODIAL STORAGE REC.	15A	1				1	15A	SPARE	20	61	SPARE	15A	1				20	15A	SPARE	62
21	CUSTODIAL AREA REC.	15A	1				1	15A	SPARE	22	63	SPARE	15A	1				22	15A	SPARE	64
23	CUSTODIAL AREA REC.	15A	1				1	15A	SPARE	24	65	SPARE	15A	1			1**	15A	GYM FANS	66	
25	CUSTODIAL AREA REC.	15A	1				1	15A	SPARE	26	67	GYM LIGHTS	20A	1*				26	15A	SPARE	68
27	STORAGE 111C FRIDGE	15A	1				1	15A	SPARE	28	69	GYM LIGHTS	20A	1*				28	15A	SPARE	70
29	STORAGE 111C FRIDGE	15A	1				1	15A	SPARE	30	71	ROOF MECH EQUIP MAINTENANCE RECEPTACLE	20A	1				30	15A	SPARE	72
31	WASHROOM 110C HAND DRYER	15A	1				1	15A	SPARE	32	73	SPARE	20A	1				32	15A	SPARE	74
33	WASHROOM 110E HAND DRYER	15A	1				1	15A	SPARE	34	75	SPARE	20A	1			3	15A	SPARE	76	
35	GYM DIVIDER CURTAIN	15A	1				1	15A	SPARE	36	77	SPARE	20A	1				36	15A	SPARE	78
37	GYM RECEPTACLES	15A	1				1	15A	SPARE	38	79	SPARE	20A	1				38	15A	SPARE	80
39	GYM RECEPTACLES	15A	1				1	15A	SPARE	40	81	SPARE	20A	1			3	60A	PANEL S	82	
41	GYM RECEPTACLES	15A	1				1	15A	SPARE	42	83	SPARE	20A	1				42	15A	SPARE	84

NOTES: * PROVIDE LIGHTING RELAYS FOR CONTROL OF LIGHTING CIRCUITS 1, 3, 67, AND 69. ALL EXIT AND EMERGENCY LIGHTING DEVICES ARE TO BE WIRED TO LINE SIDE OF RELAYS. ** PROVIDE DUAL VOLTAGE RELAY FOR CONTROL OF GYM FAN CIRCUIT FROM BAS. INCLUDE SUPPLY AND INSTALL OF LOW VOLTAGE WIRING TO BAS PANEL. COORDINATE WITH GENERAL CONTRACTOR AND BAS CONTRACTOR FOR ALL REQUIREMENTS.

LIGHTING CONTROL SCHEDULE

TYPE	MANUFACTURER & CATALOG NO.	DESCRIPTION	VOLTAGE	NOTES
A	WATTSTOPPER Cat# DSW-100-X	DUAL TECHNOLOGY WALL SWITCH SENSOR	120V	MANUAL ON, 15 MINUTE OFF.
B	WATTSTOPPER Cat# LMDC-100	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNT SENSOR	24V	
RC	WATTSTOPPER Cat# LMRC-111	SINGLE RELAY ON/OFF/0-10V DIMMING ROOM CONTROLLER	120V	
LV1	WATTSTOPPER Cat# LMDM-101	1-BUTTON LOW VOLTAGE DIMMER SWITCH	24V	

ELECTRIC HEATER SCHEDULE

TYPE	MANUFACTURER/MODEL/CAT#	WATTAGE	VOLTAGE/PHASE	DESCRIPTION
CF.1	BANVIL CAT.# FP56R	0.55A	120V/1	56" DIAMETER CEILING FAN
CF.2	BANVIL CAT.# FP56R	0.55A	120V/1	56" DIAMETER CEILING FAN
CF.3	BANVIL CAT.# FP56R	0.55A	120V/1	56" DIAMETER CEILING FAN
CF.4	BANVIL CAT.# FP56R	0.55A	120V/1	56" DIAMETER CEILING FAN
CF.5	BANVIL CAT.# FP56R	0.55A	120V/1	56" DIAMETER CEILING FAN
CF.6	BANVIL CAT.# FP56R	0.55A	120V/1	56" DIAMETER CEILING FAN

NEW PANEL S SCHEDULE

LOCATION: GYMNASIUM STAGE					VOLTAGE: 120/208V					KAIC RATING: 100A				
SUPPLY FROM: PANEL Q					PHASES: 3					MAINS TYPE: MLO				
MOUNTING: RECESSED					WIRES: 4					MAINS RATING: 60A				
ENCLOSURE: TYPE 1										MCB RATING: -				

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	STAGE LIGHTS	15A	1*				1	20A	SPARE	2
3	STAGE RECEPTACLES	15A	1				1	20A	STAGE LIGHTING ROUGH-IN	4
5	STAGE RECEPTACLES	15A	1				1	20A	SPARE	6
7	SPARE	15A	1				1	20A	SPARE	8
9	SPARE	15A	1				1	20A	SPARE	10
11	SPARE	15A	1				1	20A	SPARE	12
13										14
15										16
17										18
19										20
21	LIFT POWER	30A	3							22
23										24

NOTES: * PROVIDE LIGHTING RELAYS FOR CONTROL OF LIGHTING CIRCUIT 1. ALL EXIT AND EMERGENCY LIGHTING DEVICES ARE TO BE WIRED TO LINE SIDE OF RELAYS.

NEW PANEL C SCHEDULE

LOCATION: RESOURCE ROOM 125A					VOLTAGE: 120/208V					KAIC RATING: 100A				
SUPPLY FROM: PP-1					PHASES: 1					MAINS TYPE: MLO				
MOUNTING: RECESSED					WIRES: 3					MAINS RATING: MLO				
ENCLOSURE: TYPE 1										MCB RATING: -				

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	LEARNING COMMONS LIGHTS	20A	1*				1	15A	BY-PASS AIR TERMINAL UNIT BP2	2
3	CONTROL TRANSFORMER	15A	1				1	15A	BY-PASS AIR TERMINAL UNIT BP3	4
5	TABLET CHARGING STATION	15A	1				1	15A	RESOURCE ROOM CLOCK	6
7	LEARNING COMMONS RECEPTACLES	15A	1				1	15A	RESOURCE ROOM BY-PASS AIR TERMINAL UNIT	8
9	LEARNING COMMONS RECEPTACLES	15A	1				1	15A	RESOURCE ROOM LIGHTS	10
11	LEARNING COMMONS RECEPTACLES	15A	1				1	15A	RESOURCE ROOM RECEPTACLES	12
13	LEARNING COMMONS RECEPTACLES	15A	1				1	15A	RESOURCE ROOM RECEPTACLES	14
15	LEARNING COMMONS TEACHING WALL	15A	1				1	15A	RESOURCE ROOM TEACHING WALL	16
17	OFFICE 125B AND 125C LIGHTS	15A	1*		1**		15A	LEARNING COMMONS FANS	18	
19	OFFICE 125B RECEPTACLES	15A	1				1	15A	MOTORIZED BLINDS	20
21	OFFICE 125C RECEPTACLES	15A	1				1	15A	SPARE	22
23	LEARNING COMMONS STUDY DESK RECEPT	15A	1				1	15A	SPARE	24
25	CIRCULATION DESK RECS	15A	1				1	20A	SPARE	26
27	CIRCULATION DESK PRINTER	15A	1				1	20A	SPARE	28
29	CIRCULATION DESK RECS	15A	1				1	20A	SPARE	30
31	SPARE	15A	1				1	20A	SPARE	32
33	SPARE	15A	1				1	20A	SPARE	34
35	SPARE	15A	2				2	15A	SPARE	36
37	SPARE	15A	1				1	20A	SPARE	38
39	SPARE	20A	2				2	20A	SPARE	40
41	SPARE	20A	2				2	20A	SPARE	42

NOTES: ELECTRICAL CONTRACTOR MAY REVISE SPARE BREAKER QUANTITIES AND ARRANGEMENT TO ACCOUNT FOR EXISTING LOADS NOT INCLUDED IN AREA OF WORK. ALL LOADS ON EXISTING PANEL AND OUTSIDE OF AREA OF WORK ARE TO BE REVISED. * PROVIDE LIGHTING RELAYS FOR CONTROL OF LIGHTING CIRCUITS 1 AND 17. ALL EXIT AND EMERGENCY LIGHTING DEVICES ARE TO BE WIRED TO LINE SIDE OF RELAYS. ** PROVIDE DUAL VOLTAGE RELAY FOR CONTROL OF CEILING FAN CIRCUIT FROM BAS. INCLUDE SUPPLY AND INSTALL OF LOW VOLTAGE WIRING TO BAS PANEL. COORDINATE WITH GENERAL CONTRACTOR AND BAS CONTRACTOR FOR ALL REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE

FIXTURE	MANUFACTURER & CATALOG NO.	LAMPS	LAMP COLOUR	VOLTAGE/BALLAST	FINISH	MOUNTING HEIGHT	FIXTURE DESCRIPTION
A	LITHONIA CAT.# ZL10 L48 5000LM FST MVOLT 35K 80CRI WH		42W 5,352 lm LED 3500 K	120V	WHITE SUSPENDED CEILING	4' LED STRIP LIGHT C/W DROP LENS. SUSPEND TO MAINTAIN MAXIMUM HEADROOM.	
A1	LITHONIA CAT.# ZL10 L48 7000LM FST MVOLT 35K 80CRI WH		59W 7,480 lm LED 3500 K	120V	WHITE SUSPENDED CEILING	4' LED STRIP LIGHT C/W DROP LENS. SUSPEND TO MAINTAIN MAXIMUM HEADROOM.	
B	LITHONIA CAT.# IBG-18000LM-SEF-AFL-GND-MVOLT-G210-35K-80CRI-WGX-DWH		105W 18,531 lm LED 3500 K	120V	WHITE SUSPENDED CEILING	2'X2' SUSPENDED LED HIGHBAY FIXTURE C/W FROSTED ACRYLIC LENS. 0-10V DIMMING DRIVER, WHITE FINISH, WIRE GUARD AND BUILT-IN MOTION SENSOR. SUSPENDED FLUSH TO UNDERSIDE OF ROOF JOISTS.	
C1	LITHONIA CAT.# GRD-L5L-4FT-MSL4-80CRI-35K-ID1000LMF-80/20-MIN10-ZT-120-SCT-F2XX-C210-CSA-DU		24W 4,920 lm LED 3500 K	120V	WHITE SUSPENDED 2.4m AFF	4' SUSPENDED LINEAR LED LUMINAIRE C/W 80% UP/20% DOWN DISTRIBUTION, 0-10V DIMMING DRIVER, WHITE FINISH, AND DUST COVER.	
C2	LITHONIA CAT.# GRD-L5L-16FT-MSL4-80CRI-35K-ID1000LMF-80/20-MIN10-ZT-120-SCT-F2XX-C210-CSA-DU		96W 19,680 lm LED 3500 K	120V	WHITE SUSPENDED	16' SUSPENDED LINEAR LED LUMINAIRE C/W 80% UP/20% DOWN DISTRIBUTION, 0-10V DIMMING DRIVER, WHITE FINISH, DUST COVER, AND SUSPENSION CALBES TO SUIT MOUNTING HEIGHT. REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS FOR FIXTURE MOUNTING HEIGHTS AND DETAILS.	
AA	PHILIPS GARDCO CAT.# 121-16L-1000-WW-G4-2-UNV-MGY		55W, 5,313 lm LED 3000 K	120V	MEDIUM GRAY WALL MATCH EXISTING	WALL MOUNTED LED FIXTURE WITH TYPE 2 DISTRIBUTION. MOUNT FIXTURE TO MATCH EXISTING WALL FIXTURE HEIGHTS.	
AA1	PHILIPS GARDCO CAT.# 121-16L-1000-WW-G4-4-UNV-MGY		55W, 4,928 lm LED 3000 K	120V	MEDIUM GRAY WALL MATCH EXISTING	WALL MOUNTED LED FIXTURE WITH TYPE 4 DISTRIBUTION. MOUNT FIXTURE TO MATCH EXISTING WALL FIXTURE HEIGHTS.	
COMBO	STANPRO CAT.# PRMS-1-050-0-2-S-WH-XX		2-7W LED MR16 GREEN/NA 120V/12V		WHITE WALL/CEILING 2.4m AFF	SELF-POWERED STEEL RUNNING MAN SIGN WITH TWIN LED MR16 HEADS, AUTOTEST, AND FACES, CHEVRONS, AND MOUNTING AS SHOWN ON DRAWINGS.	
EXIT	STANPRO CAT.# RMSE-IB1		LED GREEN/NA 120V/12V		WHITE WALL 2.4m AFF	SELF-POWERED STEEL RUNNING MAN SIGN WITH AUTOTEST AND FACES, CHEVRONS, AND MOUNTING AS SHOWN ON DRAWINGS.	
EMA	STANPRO CAT.# SLA-12-MR16-2N-WH-XX		2-7W LED MR16 NA 120V/12V		WHITE WALL 2.4m AFF	EMERGENCY BATTERY UNIT WITH TWIN LED MR16 HEADS, AUTOTEST, AND CAPACITY AS SHOWN ON DRAWINGS.	
E2	STANPRO CAT.# N2-06-12V-7W-LJ-WH-XX		2-7W LED MR16 NA 12V		WHITE WALL 2.4m AFF	LED MR16 TWIN HEAD REMOTE EMERGENCY FIXTURE. CONFIRM VOLTAGE PRIOR TO ORDERING.	
E1	STANPRO CAT.# N1-06-12V-7W-LJ-WH-XX		1-7W LED MR16 NA 12V		WHITE WALL 2.4m AFF	LED MR16 SINGLE HEAD REMOTE EMERGENCY FIXTURE. CONFIRM VOLTAGE PRIOR TO ORDERING.	

LEGEND

SYMBOL	DESCRIPTION
X	SUSPENDED LINEAR LIGHT FIXTURE (AS PER SCHEDULE)
X	SURFACE/WALL LIGHT FIXTURE (AS PER SCHEDULE)
X	RECESSED LIGHT FIXTURE (AS PER SCHEDULE)
X	STRIP INDUSTRIAL LIGHT FIXTURE (AS PER SCHEDULE)
X	SURFACE LIGHT FIXTURE (AS PER SCHEDULE)
X	WALL MOUNTED LIGHT FIXTURE (AS PER SCHEDULE)
[Symbol]	WALL MOUNTED EXIT SIGN (AS PER SCHEDULE)
[Symbol]	CEILING MOUNTED EXIT SIGN (AS PER SCHEDULE)
[Symbol]	COMBINATION EXIT/EMERGENCY FIXTURE (AS PER SCHEDULE)
[Symbol]	WALL MOUNTED EXIT SIGN
[Symbol]	COMBINATION EXIT/EMERGENCY FIXTURE
[Symbol]	EMERGENCY UNIT EQUIPMENT (AS PER SCHEDULE)
[Symbol]	REMOTE EMERGENCY FIXTURE (AS PER SCHEDULE)
[Symbol]	SWITCH (3 3-WAY, 4 4-WAY, LV LOW VOLTAGE, C PA CALL SWITCH, K KEY)
[Symbol]	DIMMER SWITCH (DX DIMMING RELAY, LV LOW VOLTAGE) DO NOT GANG DIMMER WITH OTHER DEVICES.
[Symbol]	OCCUPANCY SENSOR WALL SWITCH (AS PER SCHEDULE)
[Symbol]	OCCUPANCY SENSOR CEILING MOUNTED (AS PER SCHEDULE)
[Symbol]	DLM ROOM CONTROLLER (AS PER SCHEDULE)
[Symbol]	TIME CLOCK (INTERMATIC ET245C)
[Symbol]	

ELECTRICAL SPECIFICATION

- GENERAL REQUIREMENTS
- THESE DRAWINGS AND SPECIFICATIONS ARE TO BE READ IN CONJUNCTION WITH THE BOOK SPECIFICATION AND ARE CONSIDERED TO FORM A PART OF THIS BOOK SPECIFICATION
- INTENT: THESE DRAWINGS AND SPECIFICATIONS FORM AN INTENT-BASED DESIGN. THE CONTRACTOR IS TO COORDINATE WITH THE DESIGN TEAM AND ALL TRADES TO PROVIDE A COMPLETE AND HIGH-QUALITY INSTALLATION. FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP
- SHOP DRAWINGS: SUBMIT SHOP DRAWINGS AND PRODUCT DATA, INDICATING DETAILS OF CONSTRUCTION, DIMENSIONS, CAPACITIES, WEIGHTS, AND ALL ELECTRICAL PERFORMANCE CHARACTERISTICS OF EQUIPMENT AND MATERIALS FOR THE FOLLOWING: INTERIOR LIGHTING, LAMPS, BALLASTS, EXIT AND EMERGENCY LIGHTING, FIRE ALARM COMPONENTS, LIGHTING DEVICES AND COVER PLATES, COMMUNICATION CABLING AND COMPONENTS, DISTRIBUTION EQUIPMENT AND PANELBOARDS (INCLUDING FUSES, BREAKERS, AND GROUND FAULT EQUIPMENT)
- SUBMISSION TO CONSIST OF ONE DIGITAL COPY OF DRAWINGS AND PRODUCT DATA TO ENGINEER VIA GENERAL CONTRACTOR - PDF DOCUMENT FORMAT TO FORTECH EMAIL ADDRESS IN DRAWING TITLEBLOCK
- APPROVED SHOP DRAWINGS ARE TO BE PRINTED IN COLOUR AND INCLUDED IN OPERATION AND MAINTENANCE MANUALS
- GENERAL CONTRACTOR IS TO REVIEW SHOP DRAWINGS TO UNDERSTAND INSTALLATION REQUIREMENTS OF OTHER TRADES. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE GENERAL CONTRACTOR IS AWARE OF SPECIAL INSTALLATION AND COORDINATION INSTRUCTIONS. FINAL SIGN-OFF OF CONTRACT WILL NOT BE PROVIDED WITHOUT COMPLETE SHOP DRAWING SUBMITTAL, MAINTENANCE MANUALS, AND ALL CLOSE-OUT DOCUMENTS AND CERTIFICATES
- PROGRESS DRAW: SUBMIT TO CONSULTANT A BREAKDOWN OF THE CONTRACT PROGRESS TO BE USED IN DETERMINING EXTENT OF WORK COMPLETED ON PROJECT. WORK TO BE SEPARATED BY LABOUR AND MATERIAL FOR ALL COMPONENTS
- SITE MEETINGS/INSPECTIONS: CONTRACTOR TO NOTIFY CONSULTANT A MINIMUM OF 48 HOURS NOTICE FOR INSPECTION, AS A MINIMUM UPON PLACEMENT OF DUCTS IN DUCT BANK PRIOR TO CONCRETE ENCASUREMENT, AT 25% AND 60% OF COMPLETION OF WORK. UPON COMPLETION OF WORK, AFTER CLEANING IS CARRIED OUT, REJECTED WORK: REMOVE DEFECTIVE WORK, WHETHER RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE PRODUCTS OR DAMAGE, AND WHETHER INCORPORATED IN WORK OR NOT, WHICH HAS BEEN REJECTED BY CONSULTANT AS FAILING TO CONFORM TO CONTRACT DOCUMENTS, REPLACE AND RE-EXECUTE IN ACCORDANCE WITH CONTRACT DOCUMENTS
- MAKE GOOD OTHER CONTRACTORS WORK DAMAGED BY SUCH REMOVALS OR REPLACEMENTS PROMPTLY
- IF IN OPINION OF CONSULTANT IT IS NOT EXPEDIENT TO CORRECT DEFECTIVE WORK OR WORK NOT PERFORMED IN ACCORDANCE WITH CONTRACT DOCUMENTS, OWNER WILL DEDUCT FROM CONTRACT PRICE VALUE AS DETERMINED BY CONSULTANT
- PRODUCT REQUIREMENTS: EQUIPMENT AND MATERIALS SHALL BE NEW, NOT DAMAGED OR DEFECTIVE, AND OF BEST QUALITY FOR PURPOSES INTENDED. DEFECTIVE AND/OR IMPROPERLY INSTALLED PRODUCTS, WHETHER IDENTIFIED PRIOR TO COMPLETION OF WORK OR NOT, WILL BE REJECTED, REGARDLESS OF PREVIOUS INSPECTIONS. INSPECTION DOES NOT RELIEVE RESPONSIBILITY, BUT IS PRECAUTION AGAINST OVSIGHT OR ERROR. REMOVE AND REPLACE DEFECTIVE PRODUCTS AT OWN EXPENSE AND BE RESPONSIBLE FOR DELAYS AND EXPENSES CAUSED BY REJECTION
- ENSURE COOPERATION OF WORKER IN LAYING OUT OF WORK AND BE RESPONSIBLE FOR COORDINATION AND PLACEMENT OF DEVICES, CONTROLS, OPENINGS, SLEEVES, AND ACCESSORIES
- IN FINISHED AREAS CONCEAL PIPES, DUCTS, AND WIRING IN FLOORS, WALL, AND CEILINGS, UNLESS OTHERWISE NOTED
- CONSIDER LOCATION OF FIXTURES, OUTLETS, AND MECHANICAL AND ELECTRICAL ITEMS INDICATED AS APPROXIMATE
- PROVIDE CONSULTANT WITH SCHEDULE OF MATERIAL DELIVERY WITHIN 2 WEEKS AFTER AWARD OF CONTRACT
- MANUFACTURER'S INSTRUCTIONS: UNLESS OTHERWISE NOTED IN SPECIFICATIONS, INSTALL OR ERECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT RELY ON LABELS OR ENCLOSURES PROVIDED WITH PRODUCTS. OBTAIN WRITTEN INSTRUCTIONS DIRECTLY FROM MANUFACTURER. ENSURE QUALITY OF WORK IS OF HIGHEST STANDARD, EXECUTED BY WORKERS EXPERIENCED AND SKILLED IN RESPECTIVE DUTIES FOR WHICH THEY ARE EMPLOYED. PROVIDE COMMISSIONING OF SYSTEMS BY MANUFACTURER AND/OR THIRD-PARTY AGENT AS NOTED IN DRAWINGS
- ALTERNATES/EQUALS: NO ALTERNATE PRODUCTS ARE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE CONSULTANT 7 DAYS PRIOR TO TENDER CLOSE. EQUAL PRODUCTS TO THOSE SPECIFIED WILL BE ALLOWED UNLESS OTHERWISE NOTED
- SHOULD ANY SUBSTITUTION BE MADE, THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR THE INSTALLATION, COORDINATION AND OPERATION OF THE SYSTEM AS WELL AS ANY ENGINEERING AND REDESIGN COSTS WHICH MAY RESULT FROM SUCH SUBSTITUTIONS (I.E., CHANGES TO LIGHT FIXTURES)
- TEMPORARY POWER: ARRANGE FOR CONNECTION OF TEMPORARY CONSTRUCTION POWER WITH APPROPRIATE UTILITY COMPANY. PAY COSTS FOR INSTALLATION, MAINTENANCE AND REMOVAL
- SUBMIT WRITTEN CERTIFICATE THAT WORK HAS BEEN COMPLETED AND INSPECTED FOR COMPLIANCE. DEFECTS HAVE BEEN CORRECTED, DEFICIENCIES HAVE BEEN COMPLETED, CERTIFICATES HAVE BEEN SUBMITTED
- OPERATING INSTRUCTIONS: INSTRUCT CONSULTANT AND OWNER IN OPERATION, CARE AND MAINTENANCE OF ALL SYSTEMS, SYSTEM EQUIPMENT AND COMPONENTS. ARRANGE AND PAY FOR SERVICES OF MANUFACTURER'S FACTORY SERVICE ENGINEER TO SUPERVISE START-UP OF INSTALLATION, CHECK, ADJUST, BALANCE AND CALIBRATE COMPONENTS AND INSTRUCT OPERATING PERSONNEL OF SAME. PROVIDE THESE SERVICES FOR SUCH PERIOD, AND FOR AS MANY VISITS AS NECESSARY TO PUT EQUIPMENT IN OPERATION, AND ENSURE THAT OPERATING PERSONNEL ARE CONVERSANT WITH ASPECTS OF ITS CARE AND OPERATION
- 1.18.1 INCLUDE OPERATION INSTRUCTION IN MAINTENANCE MANUALS
- AS-BUILT DRAWINGS: MAINTAIN ONE RECORD COPY OF CONTRACT DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS AND OTHER MODIFICATIONS TO CONTRACT, SHOP DRAWINGS, FIELD TEST RECORD, INSPECTION CERTIFICATES, AND MANUFACTURER'S CERTIFICATES. MODIFY ALL DOCUMENTS TO REFLECT ACTUAL CONSTRUCTION
- MAINTENANCE MANUALS: SUBMIT COMPLETE OPERATING AND MAINTENANCE MANUALS OF INSTALLED PRODUCTS; DETAILED INFORMATION OF INSTALLING CONTRACTOR, SUB-CONTRACTORS, AND DISTRIBUTOR(S); LIST OF SPARE PARTS; WARRANTY AND INSTALLATION CERTIFICATES; FINAL INSPECTIONS; TEST REPORTS
- DEMONSTRATION AND TRAINING: DEMONSTRATE START-UP, OPERATION, CONTROL, ADJUSTMENT, TROUBLE-SHOOTING, SERVICING, AND MAINTENANCE OF EQUIPMENT AND SYSTEMS TO OWNER'S PERSONNEL TWO WEEKS PRIOR TO DATE OF FINAL INSPECTION. THIS INSTRUCTION IS TO BE BASED ON DATA INCLUDED IN THE OPERATIONS AND MAINTENANCE MANUALS (PREPARE AND INSERT ADDITIONAL DATA IN MANUALS WHEN NEED FOR ADDITIONAL DATA BECOMES APPARENT DURING INSTRUCTIONS). TRAINING MATERIAL TO INCLUDE AS-BUILT DRAWINGS, OPERATION MANUALS, AND MAINTENANCE MANUALS
- OBJECTIVE OF TRAINING IS TO PROVIDE:
 - SAFE, RELIABLE, COST-EFFECTIVE, ENERGY-EFFICIENT OPERATION OF SYSTEMS IN NORMAL AND EMERGENCY MODES UNDER ALL CONDITIONS.
 - EFFECTIVE ON-GOING INSPECTION AND MEASUREMENTS OF SYSTEM PERFORMANCE.
 - PROPER PREVENTATIVE MAINTENANCE, DIAGNOSIS, AND TROUBLE-SHOOTING.
 - ABILITY TO UPDATE DOCUMENTATION.

- CLEANING: CLEAN FROM ALL FIXTURES AND EQUIPMENT DUST, DIRT, FINGER-PRINTS, PAINT, GREASE, CONSTRUCTION AND DEMOLITION DEBRIS. CLEAN AND TOUCH UP SURFACES OF SHOP-PAINTED EQUIPMENT SCRATCHED OR MARRED DURING SHIPMENT OR INSTALLATION. TO MATCH ORIGINAL FINISH
- WARRANTY: PROVIDE A ONE YEAR WARRANTY ON ALL LABOUR AND MATERIAL, STARTING FROM DATE OF SUBSTANTIAL COMPLETION OR AS NOTED/SUPERSEDED BY THE GENERAL CONTRACT DOCUMENTS
- PROVIDE COPIES OF ALL INSPECTION CERTIFICATION REPORTS FROM AUTHORITIES HAVING JURISDICTION, INCLUDING ELECTRICAL SAFETY AUTHORITY, FIRE ALARM VERIFICATION, CANULC 5561 FIRE ALARM MONITORING CERTIFICATE AND EXIT/EMERGENCY LIGHTING TEST
- DO NOT SCALE DRAWINGS. ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO ATTENTION OF ENGINEER PRIOR TO TENDER CLOSE
- COORDINATE WORK OF OTHER TRADES (HVAC, PLUMBING, SPRINKLER, STRUCTURAL). ENSURE THAT PROPER ARRANGEMENTS AND PROVISIONS ARE MADE FOR THIS WORK. COORDINATE ELECTRICAL REQUIREMENTS OF ALL OWNER-SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN
- SUPPLY AND INSTALL NON-PERMANENT CSA APPROVED FIRE STOPPING TO SEAL ALL PENETRATIONS, CAP ALL EMPTY SLEEVES AND AROUND CABLING AND DUCTS PASSING THROUGH SLEEVES, WALL, OR FLOORS. ALL FIRE STOPPING MUST MAINTAIN FIRE AND HEAT RATING OF FLOOR/WALL ASSEMBLY, AND MUST MEET APPLICABLE FEDERAL, PROVINCIAL, AND LOCAL BUILDING/FIRE CODES

- EQUIPMENT AND WIRING
- MATERIALS AND EQUIPMENT: ALL ELECTRICAL PRODUCTS SHALL BE TESTED, CERTIFIED, AND LABELED IN ACCORDANCE WITH A CERTIFICATION PROGRAM ACCREDITED BY THE STANDARDS COUNCIL OF CANADA, CSA, WHERE A PRODUCT IS NOT SO LABELED, PROVIDE WRITTEN APPROVAL BY THE AUTHORITY HAVING JURISDICTION. WHERE CSA CERTIFIED MATERIAL AND/OR EQUIPMENT IS NOT AVAILABLE, OBTAIN SPECIAL APPROVAL FROM AUTHORITY HAVING JURISDICTION
- MOTORS, ELECTRIC HEATING, CONTROLS AND DISTRIBUTION DEVICES AND EQUIPMENT TO OPERATE SATISFACTORILY AT 60Hz WITHIN NORMAL OPERATING LIMITS ESTABLISHED BY CANC-C235 (PREFERRED VOLTAGE LEVELS FOR AC SYSTEMS, 0 TO 50/60V). EQUIPMENT TO OPERATE IN EXTREME OPERATING CONDITIONS ESTABLISHED IN ABOVE STANDARD AT 40 C AMBIENT WITHOUT DAMAGE TO EQUIPMENT
- VERIFY INSTALLATION AND COORDINATION RESPONSIBILITIES RELATED TO MOTORS, EQUIPMENT AND CONTROLS. CONTROL WIRING AND CONDUIT TO BE PROVIDED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE
- WARNING SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION
- WIRING AND RACEWAYS:
 - CONDUCTORS TO BE COPPER, MINIMUM SIZE: 12 AWG
 - CONDUCTORS SIZED AS NOTED WITH 800V INSULATION IN ACCORDANCE WITH LATEST ELECTRICAL CODE
 - ARMoured CABLES (AC90) SHALL ONLY BE USED FOR FINAL CONNECTIONS TO LIGHT FIXTURES (IN CONCEALED SPACES) IN LENGTH NOT EXCEEDING 5', AND FOR RUNS CONCEALED IN STEEL PARTITIONS. PROVIDE SUFFICIENT JUNCTION BOXES AT CEILING TO MAINTAIN NEAT CEILING SPACE. MINIMUM CONDUIT SIZE: 3/4" EMT OR OF TYPE APPROVED FOR INTENDED USE AND AREA INSTALLED
 - INSTALL CONDUITS TO CONSERVE HEADROOM IN EXPOSED LOCATIONS AND CAUSE MINIMUM INTERFERENCE IN SPACES THROUGH WHICH THEY PASS
 - CONCEAL CONDUITS EXCEPT IN UNFINISHED AREAS. RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
 - PROVIDE BOXES AND FITTINGS SUITABLE FOR INTENDED USE AND AREA INSTALLED
 - ENSURE LIVES, TERMINALS, SCREWS USED FOR TERMINATION OF WIRING ARE SUITABLE FOR EITHER COPPER OR ALUMINUM CONDUCTORS
 - BOND AND GROUND AS REQUIRED TO LATEST EDITION OF ONTARIO ELECTRICAL SAFETY CODE. IDENTIFY ELECTRICAL EQUIPMENT WITH LAMC/OID NAMEPLATES (3MM THICK PLASTIC ENGRAVING SHEET, MATTE WHITE FINISH FACE, BLACK CORE). WORKING ON NAMEPLATE TO BE APPROVED BY CONSULTANT PRIOR TO MANUFACTURE
 - COLOR CODE CONDUITS, BOXES, AND METALLIC SHEATHED CABLES. CODE WITH PLASTIC TAPE OR PAINT - INSIDE BOXES IN AREAS WITH EXPOSED CEILING AND UNFINISHED AREAS. AT POINTS WHERE CONDUITS OR CABLES ENTERS WALL, CEILING, OR FLOOR, AND AT 15M INTERVALS: YELLOW FOR 600V; BLUE FOR 208V; RED FOR FIRE ALARM, AND NONE FOR OTHERS
 - CONFIRM FINISHES OF EQUIPMENT DURING SHOP DRAWING SUBMITTALS
 - MOUNTING HEIGHTS: MOUNTING OF EQUIPMENT IS FROM FINISHED FLOOR TO CENTRELINE OF EQUIPMENT UNLESS SPECIFIED OR INDICATED OTHERWISE. CONFIRM ALL HEIGHTS WITH LOCAL INSPECTORS PRIOR TO ROUGH-IN TO ENSURE THEY MEET LOCAL INTERPRETATION OF CODE:
 - LOCAL SWITCHES: 1100mm
 - WALL RECEPTACLES: 300mm OR MATCH EXISTING
 - WALL RECEPTACLES ABOVE TOP OF COUNTERS OR COUNTER SPLASH BACKS: 180mm
 - WALL RECEPTACLES IN MECHANICAL ROOMS: 1200mm
 - PANEL BOARDS: AS REQUIRED BY CODE
 - TELEPHONE AND DATA OUTLETS: 300mm OR MATCH EXISTING
 - OPERATOR PUSHBUTTONS: 1100mm (CONFIRMED WITH BUILDING INSPECTOR)
 - THERMOSTATS: 1200mm
 - MANUAL PULL STATIONS: 1200mm
 - FIRE ALARM HORNS AND BELLS: 2200mm
 - FIRE ALARM STROBES AND COMBINATION HORN/STROBES: 2000mm
 - LOCATE ADJACENT OUTLET BOXES WITH 6" APART UNLESS NOTED OTHERWISE (DO NOT SCALE DRAWINGS). COORDINATE WITH ENGINEER, OWNER MAY CHANGE LOCATION OF OUTLETS PRIOR TO INSTALLATION WITH NO CHANGE TO CONTRACT PRICE, PROVIDED DISTANCE DOES NOT EXCEED 10" FROM ORIGINAL LOCATION
 - MECHANICAL EQUIPMENT CONNECTIONS: PROVIDE CONNECTIONS TO MECHANICAL EQUIPMENT AS PER DRAWINGS
 - PROVIDE 3/4" CONDUIT ROUGH-IN FOR MECHANICAL CONTROLS AS PER MECHANICAL EQUIPMENT SCHEDULE
 - COORDINATE MECHANICAL POWER AND CONTROL WIRING REQUIREMENTS PRIOR TO ROUGH-IN
 - HANGERS AND SUPPORTS: INSTALL FASTENING AND SUPPORTS AS REQUIRED FOR EACH TYPE OF EQUIPMENT, CABLES, AND CONDUITS, IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS:
 - SECURE EQUIPMENT TO HOLLOW MASONRY, TILE AND PLASTER SURFACES WITH LEAD ANCHORS
 - SECURE EQUIPMENT TO POURED CONCRETE WITH EXPANDABLE INSERTS
 - SECURE EQUIPMENT TO HOLLOW MASONRY WALLS OR SUSPENDED CEILINGS WITH TOGGLE BOLTS
 - FASTEN EXPOSED CONDUIT OR CABLES TO BUILDING CONSTRUCTION OR SUPPORT SYSTEM USING STRAPS
 - FOR SURFACE MOUNTING OF TWO OR MORE CONDUITS USE UNISTRUT CHANNELS
 - PROVIDE METAL BRACKETS, FRAMES, HANGERS, CLAMPS, AND RELATED TYPES OF SUPPORT STRUCTURES WHERE INDICATED OR AS REQUIRED TO SUPPORT CONDUIT AND CABLE RUNS
 - ENSURE ADEQUATE SUPPORT FOR RACEWAYS AND CABLES DROPPED VERTICALLY TO EQUIPMENT WHERE THERE IS NO SUPPORT WALL
 - DO NO USE SUPPORTS OR EQUIPMENT INSTALLED FOR OTHER TRADES FOR CONDUIT OR CABLE SUPPORT EXCEPT WITH PERMISSION OF OTHER TRADES AND APPROVAL OF ENGINEER
 - WIRING DEVICES: INSTALL SWITCHES, RECEPTACLES, WIRING DEVICE, AND COVERS FLUSH AND LEVEL WITH BUILDING LINES. ENSURE THAT OUTLET BOXES ARE CLEAN PRIOR TO INSTALLING DEVICES
 - SWITCHES, RECEPTACLES, AND WIRING DEVICES TO BE SPECIFICATION GRADE, DECORA STYLE (RECEPTACLES TO BE TAMPER-RESISTANT). DEVICE COLOUR TO BE DETERMINED DURING SHOP DRAWING REVIEW
 - COVER PLATES TO BE BRUSH STAINLESS STEEL
 - LOAD BALANCING: MEASURE PHASE CURRENT TO PANELBOARD WITH NORMAL LOADS (LIGHTING) OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANDING CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES AND RECORD CHANGES. MEASURE PHASE VOLTAGES AT LOADS AND ADJUST TRANSFORMER TAPS TO WITHIN 2% OF RATED VOLTAGE OF EQUIPMENT. PROVIDE LOAD BALANCE REPORT AT END OF PROJECT
- PANELBOARDS: MAINS, NUMBER OF CIRCUITS, AND NUMBER AND SIZE OF BRANCH CIRCUIT BREAKERS, WITHSTAND CURRENT AS INDICATED ON PANEL SCHEDULES. PANELBOARDS MUST BE SHIPPED WITH HINGED AND LOCKABLE DOORS. BREAKERS ARE TO BE BOLT-ON THERMAL AND MAGNETIC TRIPPING EXCEPT AS INDICATED OTHERWISE. PROVIDE LOCK-ON DEVICES FOR FIRE ALARM, EMERGENCY, STAIRWAY, AND EXIT CIRCUITS. REFER TO SINGLE-LINE DIAGRAM AND RELATED NOTES FOR ADDITIONAL EQUIPMENT REQUIREMENTS

- LIGHTING
- FIXTURE TYPES TO BE AS PER LIGHTING FIXTURES SCHEDULE ON DRAWINGS. FIXTURES TO BE DLC LISTED OR ENERGY STAR CERTIFIED. THE FOLLOWING CRITERIA SHOULD BE MET:
 - 80 CRI
 - 70% LUMEN OUTPUT AT 50,000 HOURS
 - MINIMUM EFFICACY OF 110 LUMENS PER WATT
 - DIMMABLE
 - MINIMUM 5 YEAR WARRANTY
- LOCATE AND INSTALL LUMINAIRE AS INDICATED WITH A SEPARATE NEUTRAL FOR EACH LIGHTING CIRCUIT, AND LOCKABLE DOORS. BREAKERS ARE TO BE BOLT-ON THERMAL AND MAGNETIC TRIPPING EXCEPT AS INDICATED OTHERWISE. PROVIDE LOCK-ON DEVICES FOR FIRE ALARM, EMERGENCY, STAIRWAY, AND EXIT CIRCUITS. REFER TO SINGLE-LINE DIAGRAM AND RELATED NOTES FOR ADDITIONAL EQUIPMENT REQUIREMENTS
- WIRE TO LIGHTING CONTROLS AS INDICATED ON DRAWINGS AND MANUFACTURER'S INSTRUCTIONS
- EQUAL PRODUCT IS ALLOWED. ALTERNATE PRODUCTS WILL NOT BE ALLOWED WITHOUT THE FULL WRITTEN CONSENT OF THE CONSULTANT PRIOR TO TENDER CLOSE. ANY ALTERNATE PRODUCTS THAT ARE TO BE ALLOWED BY THE CONSULTANT WILL NEED TO BE MADE AVAILABLE TO ALL BIDDERS FOR COMPETITIVE PRICING. CONTRACTOR TO CARRY ALL COSTS FOR REVIEW OF ALTERNATE LIGHTING PACKAGES AND PHOTOMETRIC CALCULATIONS. DELAYS RESULTING FROM ANY ALTERNATES OR UNAPPROVED EQUALS WILL NOT BE ACCEPTED AND TEMPORARY LIGHTING WILL NEED TO BE SUPPLIED AT NO ADDITIONAL COSTS TO OWNER
- LAMPS TO BE 80 CRI, BULB SHAPE, WATTAGE, AND COLOUR TEMPERATURE AS INDICATED. APPROVED MANUFACTURERS ARE: PHILIPS, OSRAM-SYLVANIA, AND GE
- BALLAST TO BE SYSTEM MATCHED TO APPROVED LAMPS WITH TYPE, WATTAGE, AND BALLAST FACTOR AS INDICATED. ALL T8 LAMPS AND BALLASTS ARE TO HAVE 60-MONTH SYSTEM WARRANTIES. THIS IS TO BE A MAXIMUM OF 10%.
- PROVIDE A MINIMUM OF 10% SPARE LAMPS FOR EACH TYPE, WITH A MINIMUM OF 4 LAMPS FOR EACH TYPE. CONFIRM COMPATIBILITY AND INTERFACE WITH LUMINAIRE AND CEILING SYSTEM
- REPORT DISCREPANCIES TO THE ENGINEER AND DEFER ORDERING UNTIL CLARIFIED.
- COORDINATE WITH WORK SPECIFIED IN DIVISION 23 TO AVOID CONFLICTS BETWEEN LUMINAIRE, SUPPORTS AND FITTINGS, AND MECHANICAL EQUIPMENT. DO NOT SUSPEND FIXTURES FROM MECHANICAL EQUIPMENT, PIPES, OR DUCTS. WHERE FIXTURES ARE LOCATED BELOW DUCTS, SUSPEND FIXTURE FROM UNISTRUT TRAPEZE
- INSTALL RECESSED FIXTURES TO PERMIT REMOVAL FROM BELOW, TO GAIN ACCESS TO OUTLET OR PRE-WIRED FIXTURE BOX. CONNECT RECESSED FIXTURES TO BOXES WITH FLEXIBLE CONDUIT AND APPROVED FIXTURE WIRE
- SUPPLY RECESSED FIXTURES COMPLETE WITH TRIM TYPE REQUIRED FOR CEILING SYSTEM INSTALLED. BEFORE ORDERING, CONFIRM THE CEILING CONSTRUCTION DETAILS AND ARCHITECTURAL FINISH FOR EACH AREA
- PROVIDE EMERGENCY LIGHTING EQUIPMENT BY ONE MANUFACTURER. AIM ALL INTEGRAL AND REMOTE HEAD TO PROVIDE 1 FC AVERAGE ILLUMINATE ACROSS PATH OF EGRESS. LAMP TYPES AND WATTAGE ARE NOT TO CHANGE WITH WRITTEN PERMISSION OF ENGINEER
- PROVIDE SWITCHES, PHOTOELECTRIC CONTROLS, TIMERS, AND RELAYS FOR LIGHTING CIRCUITS AND LUMINAIRE AS INDICATED ON DRAWINGS
- PROVIDE ADEQUATE SUPPORTS FOR LUMINAIRE. USE CHAIN OR RODS FOR SUSPENDED LUMINAIRE. DO NOT SUPPORT LUMINAIRE OVER 5KG IN WEIGHT FROM OUTLET BOXES
- COORDINATE LUMINAIRE INSTALLATION WITH ARCHITECTURAL DETAILS, REFLECTED CEILING PLANS AND MECHANICAL EQUIPMENT. INSTALL ACCURATELY IN LINE AND LEVEL, TO PRESENT A NEAT APPEARANCE AND AVOID CONFLICTS
- COORDINATE REQUIRED CONTROL WIRING FOR DIMMING DRIVERS/BALLASTS (I.E., GREY/PURPLE WIRED FOR 0-10VDC BALLASTS). PROVIDE REMOTE SHUT-OFF RELAY WHERE REQUIRED BY MANUFACTURER TO TURN OFF DIMMING CIRCUIT

- FIRE ALARM SYSTEM
- NEW FIRE ALARM DEVICES ARE TO BE FROM SAME MANUFACTURER OF INSTALLED FIRE ALARM SYSTEM AND NEW/REWORKED DEVICES ARE TO BE INSTALLED, TESTED, AND VERIFIED BY THE MANUFACTURER'S FORCES IN ACCORDING WITH CANULC 5524 AND CANULC 5537
- SIGNALING DEVICES SHALL BE SEMI-FLUSH MOUNTED HORNS (CW STROBE IN CORRIDORS)

- PUBLIC ADDRESS SYSTEM
- FOR ADDITIONS, THE EXISTING PA SYSTEM SHALL BE EXTENDED TO ACCOMMODATE THE ADDITION
- ELECTRICAL CONTRACTOR IS TO PROVIDE COMPLETE ROUGH-IN, POWER, AND RACEWAY SYSTEM TO SUPPORT THE PA SYSTEM COMPONENTS
- ELECTRICAL CONTRACTOR IS TO HIRE HWDSB APPROVED CONTRACTORS FOR THE INSTALLATION AND TESTING OF PUBLIC ADDRESS SYSTEM. REFER TO LATEST REVISION OF HAMILTON WENTWORTH DISTRICT SCHOOL BOARD (HWDSB) COMMUNICATION/IT SPECIFICATIONS 19950-0, 19950-1, 19950-2, and 19951 FOR COMPLETE SPECIFICATIONS AND APPROVED CONTRACTORS

- SECURITY SYSTEM
- SECURITY DEVICES, WIRING, AND ASSOCIATED EQUIPMENT/PROGRAMMING IS TO BE SUPPLIED AND INSTALLED UNDER THIS CONTRACT
- ELECTRICAL CONTRACTOR IS TO PROVIDE COMPLETE ROUGH-IN, POWER, AND RACEWAY SYSTEM TO SUPPORT THE SECURITY SYSTEM COMPONENTS
- ELECTRICAL CONTRACTOR IS TO HIRE A CANULC APPROVED SECURITY INSTALLER FOR THE INSTALLATION AND TESTING ALL SECURITY DEVICES

- COMMUNICATION CABLING
- REFER TO LATEST REVISION OF HAMILTON WENTWORTH DISTRICT SCHOOL BOARD (HWDSB) COMMUNICATION/IT SPECIFICATIONS 19950-0, 19950-1, 19950-2, and 19951 FOR COMPLETE SPECIFICATIONS AND APPROVED CONTRACTORS
- AS PER HWDSB SPECIFICATIONS, ALL STRUCTURED CABLEING COMPONENTS ARE TO BE COMMSCOPE
- ELECTRICAL CONTRACTOR IS TO PROVIDE COMPLETE ROUGH-IN, POWER, AND RACEWAY SYSTEM TO SUPPORT THE COMMUNICATION SYSTEM COMPONENTS
- ELECTRICAL CONTRACTOR IS TO HIRE HWDSB APPROVED CONTRACTORS FOR THE INSTALLATION AND TESTING OF COMMUNICATION/IT SYSTEM

- SEISMIC RESTRAINT FOR ELECTRICAL SYSTEMS
- THE ELECTRICAL CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER SPECIALIZING IN THE DESIGN OF SEISMIC RESTRAINT SYSTEMS. THIS CONSULTANT SHALL BE RESPONSIBLE FOR THE PROVIDING A SIGNED AND SEALED PROFESSIONAL ASSURANCE LETTER (CW COMMITMENT FOR FIELD REVIEW AND REPORTING OF SEISMIC RESTRAINT INSTALLATION AS REQUIRED BY THE ONTARIO BUILDING CODE 4.1.8.19 (2) CAT 6 TO 21
- PROVIDE ALL LABOUR AND MATERIAL NECESSARY FOR THE SEISMIC RESTRAINT AND ANCHORAGE FOR ALL ELECTRICAL EQUIPMENT AND CONDUITS/WIRING IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 4.1.8.19 (2) CAT 6 TO 21
- EQUIPMENT MANUFACTURERS SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EQUIPMENT HAS ADEQUATE STRENGTH FOR SEISMIC RESTRAINTS AND ANCHORAGE OF EQUIPMENT FRAMING, VIBRATION ISOLATORS SHALL BE PROVIDED IN SUCH A WAY THAT VIBRATION ISOLATION IS MAINTAINED TOGETHER WITH SEISMIC RESTRAINTS. FOR SUSPENDED EQUIPMENT PROVIDE CABLE AND RIGID BRACES TO RESTRAIN EQUIPMENT AGAINST SEISMIC LOADS. ALL ANCHORAGE AND SUPPORTS ARE TO RECEIVE THE APPROVAL OF THE STRUCTURAL ENGINEER

NOTE TO CONTRACTORS:

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. ALL CONDUIT RUNS AND EQUIPMENT LOCATIONS ARE TO BE COORDINATED WITH STRUCTURAL ELEMENTS AND MECHANICAL EQUIPMENT.

THE DRAWINGS ARE TO BE READ AND DESIGNED IN CONJUNCTION WITH THE SPECIFICATIONS.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, REUSED, OR MODIFIED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

NO.	DATE	REVISION
03	28 MAR 2024	FOR TENDER
02	13 MAR 2024	FOR PERMIT REVISION
01	19 DEC 2023	FOR REVIEW

FORTECH ENGINEERING

202-420 Shelton Dr. P 519-745-2900
Cambridge, ON JAcri@FortechEng.com
N1T 2H9

PROJECT # 10014

PROJECT

ROSDALE ELEMENTARY SCHOOL - PHASE 2
25 Erindale Ave., Hamilton, ON

DRAWING NAME

ELECTRICAL SPECIFICATIONS

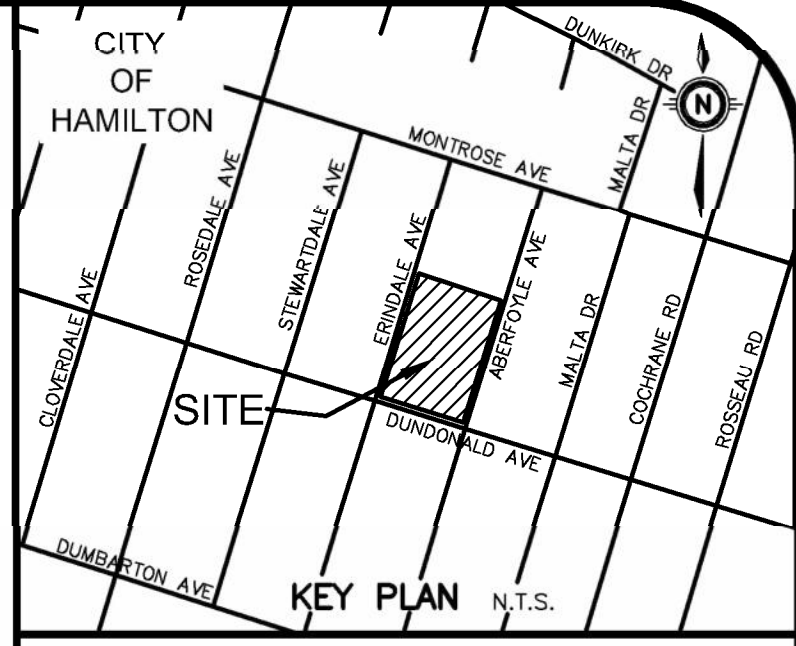
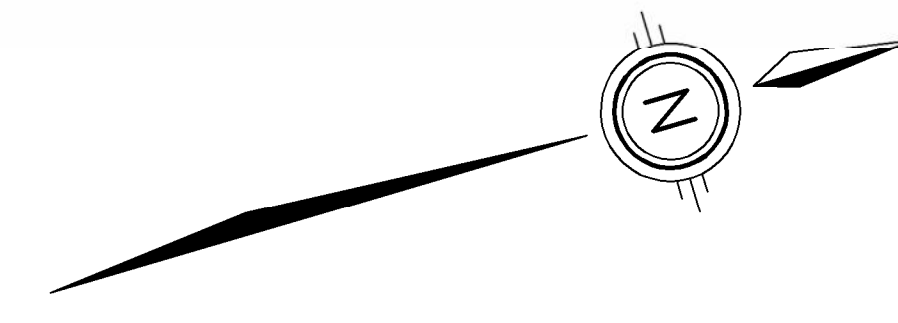
PLOT DATE	DRAWN BY
28 MAR 2024	N.Drummond
SCALE	CHECKED BY
AS NOTED	J. Acri
JOB NO.	DWG NO.
17024	E4.1

LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EXISTING SPOT ELEVATIONS/CONTOURS
- EXISTING DIRECTION OF DRAINAGE/SWALE
- EXISTING ARMOUR STONE
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING RETAINING WALL

LEGEND OF PROPOSED FEATURES

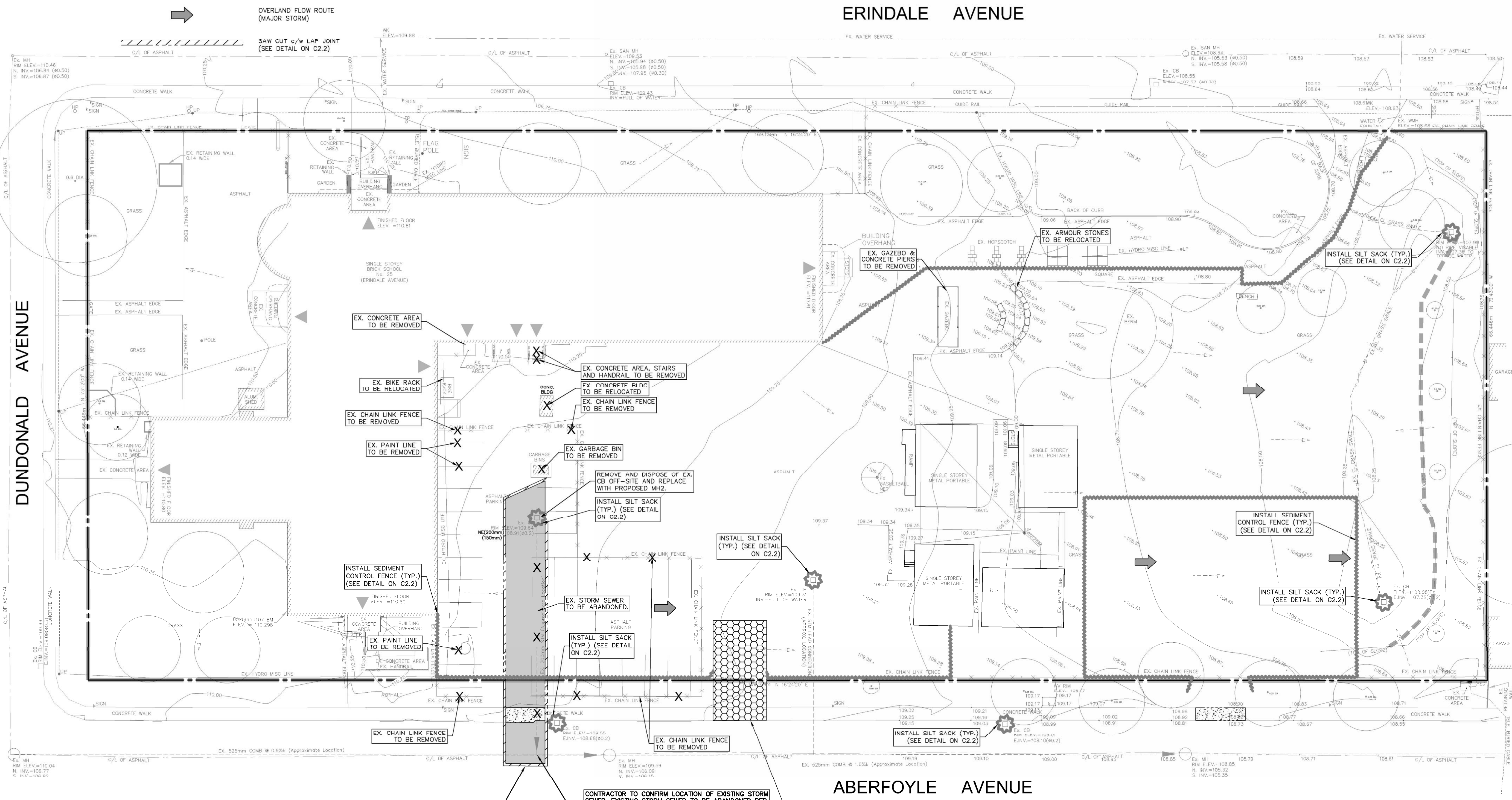
- REMOVALS
- SEDIMENT CONTROL FENCE (SEE DETAIL ON C2.2)
- SILT SACK (SEE DETAIL ON C2.2)
- CONSTRUCTION ACCESS (SEE DETAIL ON C2.2)
- OVERLAND FLOW ROUTE (MAJOR STORM)
- SAW CUT C/W LAP JOINT (SEE DETAIL ON C2.2)



GEODETIC BM ELEV. = 110.298m
 ELEVATIONS ARE OF GEODETIC ORIGIN (CGVD-1928-78), AND ARE DERIVED FROM GEODETIC BENCHMARK 0011965U107 NEAR THE SOUTH-EAST CORNER OF ROSEDALE SCHOOL.

NOTE TO CONTRACTOR :
 DO NOT SCALE DRAWINGS.
 CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
 ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.



DUNDONALD AVENUE

ERINDALE AVENUE

ABERFOYLE AVENUE

SAW CUT AND REMOVE EXISTING ASPHALT, CURB AND GUTTER AND BOULEVARD. RESTORE PER CITY OF HAMILTON STANDARD DRAWINGS RD-100.01 AND RD-100.02. GRADES TO MATCH EXISTING AND RESTORE LINE PAINTING AS REQUIRED. EXISTING SIDEWALK TO BE REMOVED AND RESTORED PER CITY OF HAMILTON DRAWINGS RD-124 AND OPSD 310.010.

CONTRACTOR TO CONFIRM LOCATION OF EXISTING STORM SEWER. EXISTING STORM SEWER TO BE ABANDONED PER CITY OF HAMILTON STANDARDS AND REMOVED FROM EXISTING CONNECTION AT MAIN AND EXISTING CATCH BASIN ON-SITE. REPORT ANY DIFFICULTIES TO THE ENGINEER PRIOR TO CONSTRUCTION. CCTV OF EXISTING STORM LINE TO BE COMPLETED TO IDENTIFY IF THERE ARE ADDITIONAL CONNECTIONS TO THE SEWER. MTE TO BE PROVIDED WITH CCTV REPORT.

CONSTRUCTION ACCESS ON EXISTING ASPHALT. RESTORE EXISTING ASPHALT, CURB & BOULEVARD AS PER CITY OF HAMILTON STANDARD DRAWINGS RD-100.01 & RD-100.02. EXISTING SIDEWALK TO BE RESTORED PER CITY OF HAMILTON DRAWINGS RD-100.03

12.	ISSUED FOR TENDER	GPB	APR. 25/24
11.	ISSUED FOR TENDER	GPB	MAR. 28/24
10.	REISSUED FOR BUILDING PERMIT	GPB	JAN. 12/24
9.	REISSUED FOR SPA	GPB	NOV. 20/23
8.	REISSUED FOR SPA	KRR	APR. 23/19
7.	REISSUED FOR SPA	KRR	MAR. 08/19
6.	REISSUED FOR SPA	KRR	FEB. 04/19
5.	ISSUED FOR BUILDING PERMIT	KRR	JAN. 23/19
4.	REISSUED FOR PERMITS	KRR	DEC. 24/18
3.	ISSUED FOR PERMITS	KRR	NOV. 09/18
2.	REISSUED FOR SPA	KRR	OCT. 24/18
1.	ISSUED FOR SPA	KRR	APR. 19/18
N/A	REVISION	BY	DATE



Engineers | Scientists | Surveyors

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NOT FOR CONSTRUCTION

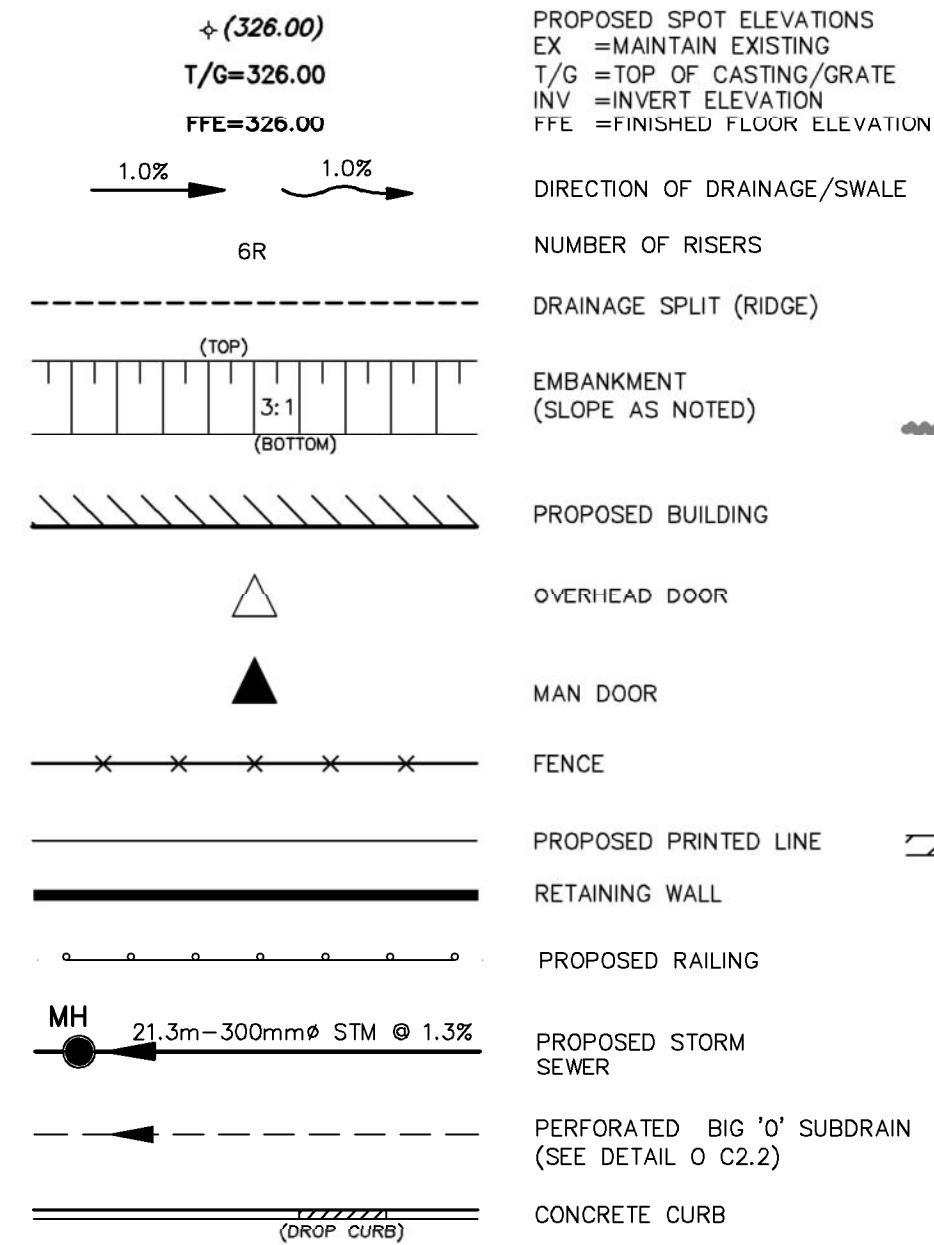


CLIENT: 118 JAMES STREET NORTH HAMILTON
 PROJECT: ROSEDALE ELEM. SCHOOL RENOVATION CIVIL WORKS
 25 ERINDALE AVENUE HAMILTON

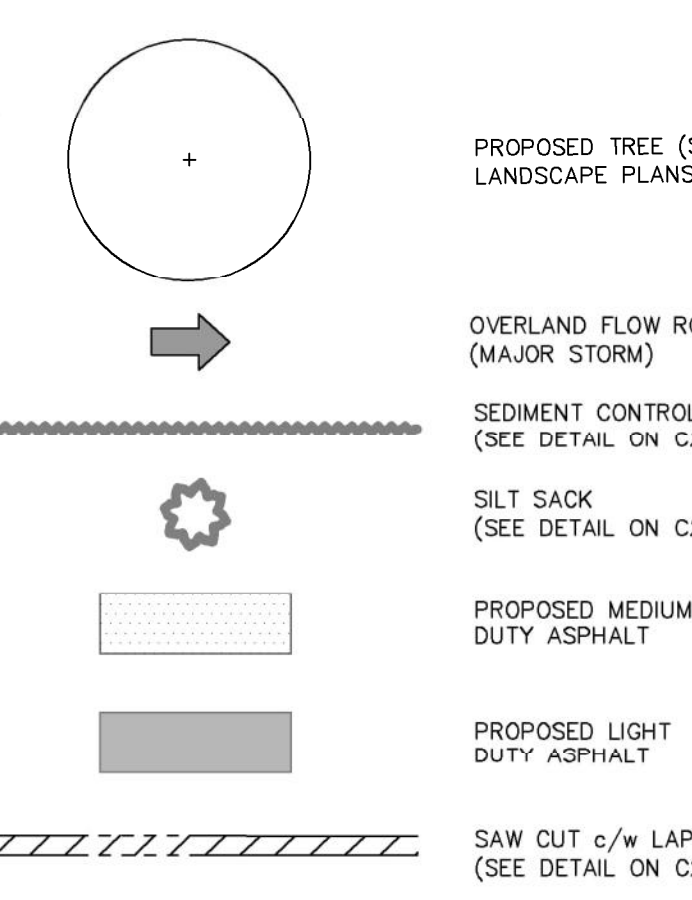
EXISTING CONDITIONS, REMOVALS & ESC PLAN

Project Manager	K. RAMSEWAK	Project No.	43438-100
Design By	ALP	Checked By	JRA/KRR
Drawn By	SDU	Checked By	JRA/KRR
Surveyed By	OTHERS	Drawing No.	
Date	Mar. 28/24		C1.1
Scale	1:250	Sheet	1 of 3

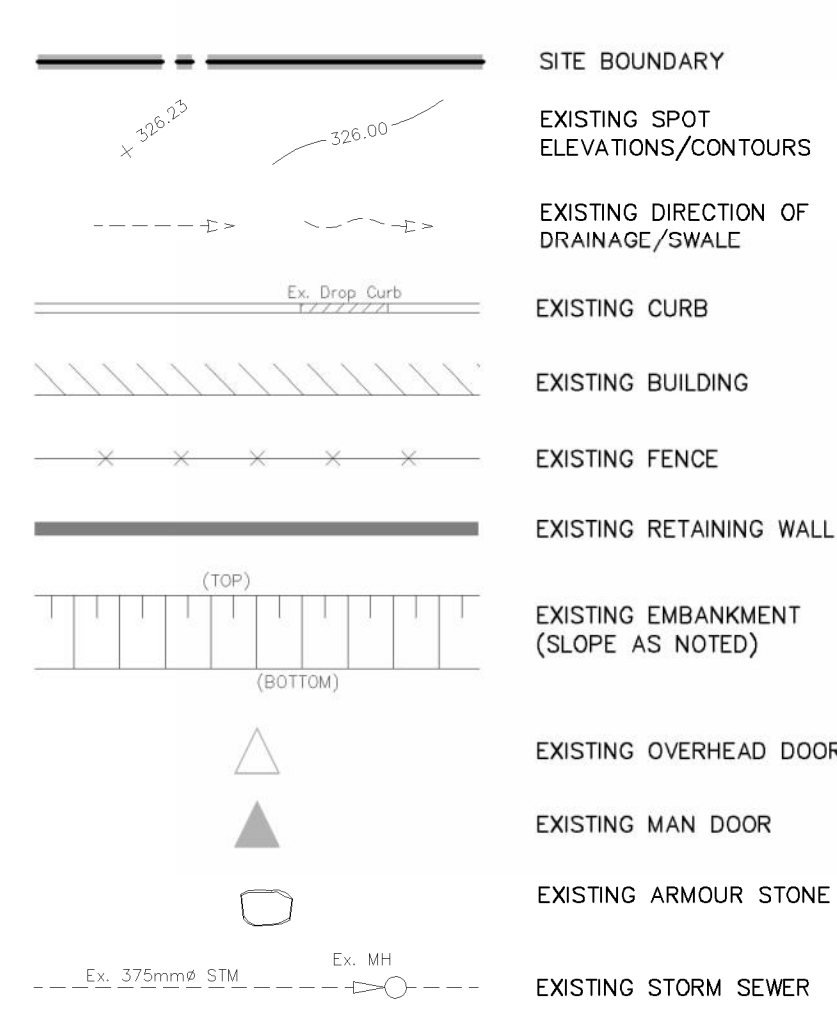
LEGEND OF PROPOSED FEATURES



PROPOSED MOLOKS



LEGEND OF EXISTING FEATURES

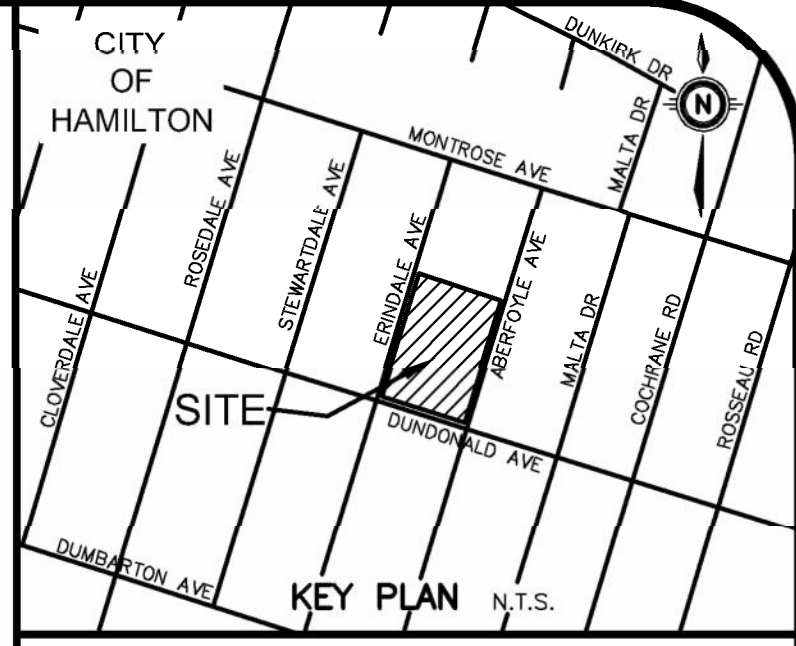


GRADING NOTES

- 1. ANY CHANGES IN GRADES AND CATCH BASINS REQUIRE THE APPROVAL OF THE CITY'S MANAGER OF DEVELOPMENT ENGINEERING.
2. ALL DRIVEWAYS FROM PROPERTY LINES FOR THE FIRST 7.5m SHALL BE WITHIN 5% MAXIMUM GRADE...
3. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT...

TEMPORARY GRAVEL PARKING LOT

Table with 2 columns: MATERIAL, DEPTH (mm). Rows: GRANULAR 'A' BASE (150), GRANULAR 'B' SUBBASE (250).



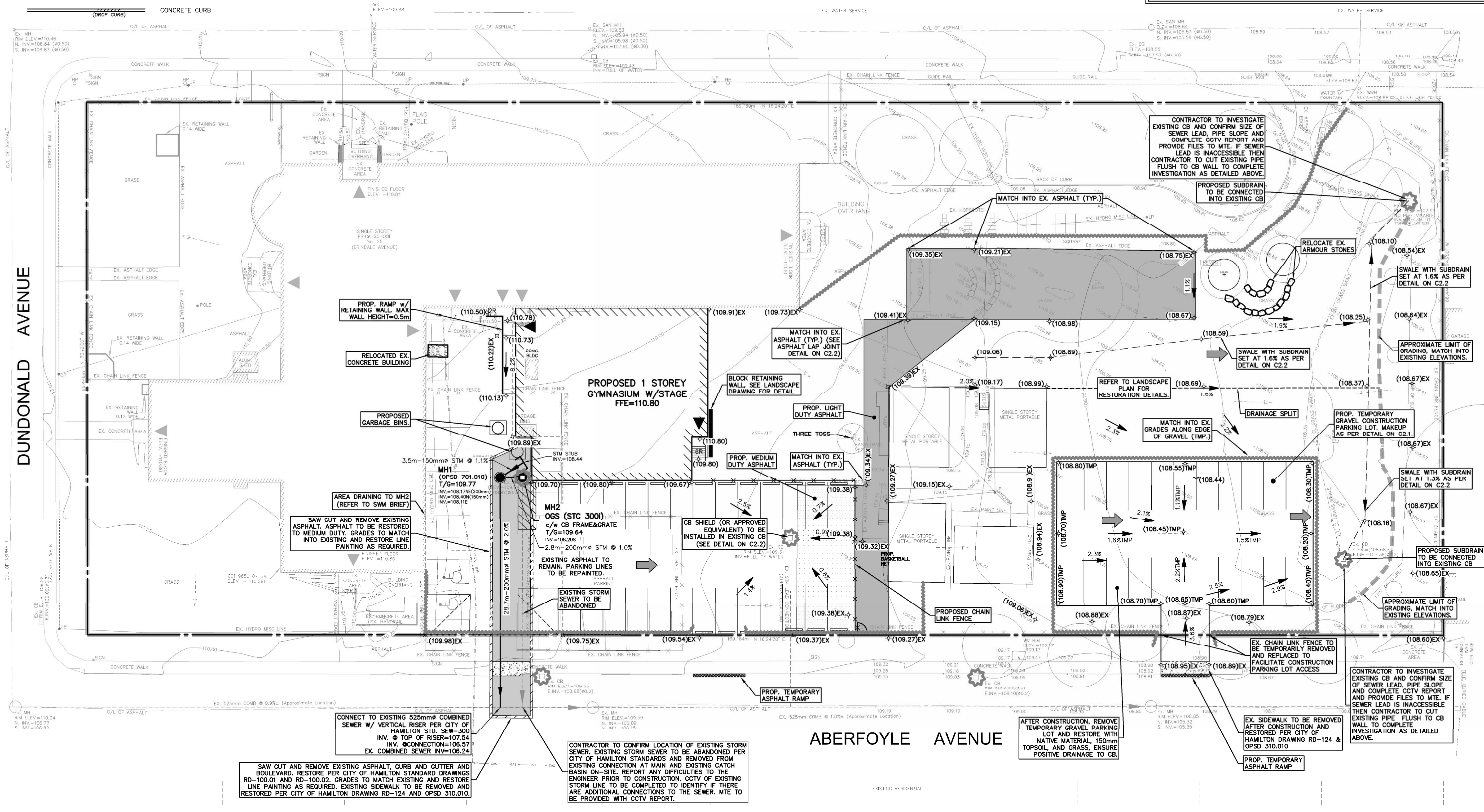
GEODEIC BM ELEV. = 110.298m
ELEVATIONS ARE OF GEODEIC ORIGIN (CGVD-1928-78), AND ARE DERIVED FROM GEODEIC BENCHMARK 0011965U107 NEAR THE SOUTH-EAST CORNER OF ROSEDALE SCHOOL.

NOTE TO CONTRACTOR :

DO NOT SCALE DRAWINGS.
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

NOTE TO CONTRACTOR:
PRIOR TO CONSTRUCTION, EXISTING UNDERGROUND UTILITIES TO BE CONFIRMED FOR LOCATION, SIZE AND DEPTHS. INFORMATION TO BE PROVIDED TO THE ENGINEER PRIOR TO CONSTRUCTION.

ERINDALE AVENUE



Revision table with columns: No, REVISION, BY, DATE. Lists 12 revisions from APR. 25/24 to FEB. 04/19.



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118 JAMES STREET NORTH HAMILTON
PROJECT: ROSEDALE ELEM. SCHOOL RENOVATION CIVIL WORKS
25 ERINDALE AVENUE HAMILTON

Project information table including Project Manager (K. RAMSEWAK), Design By (ALP), and Drawing No. (C2.1).

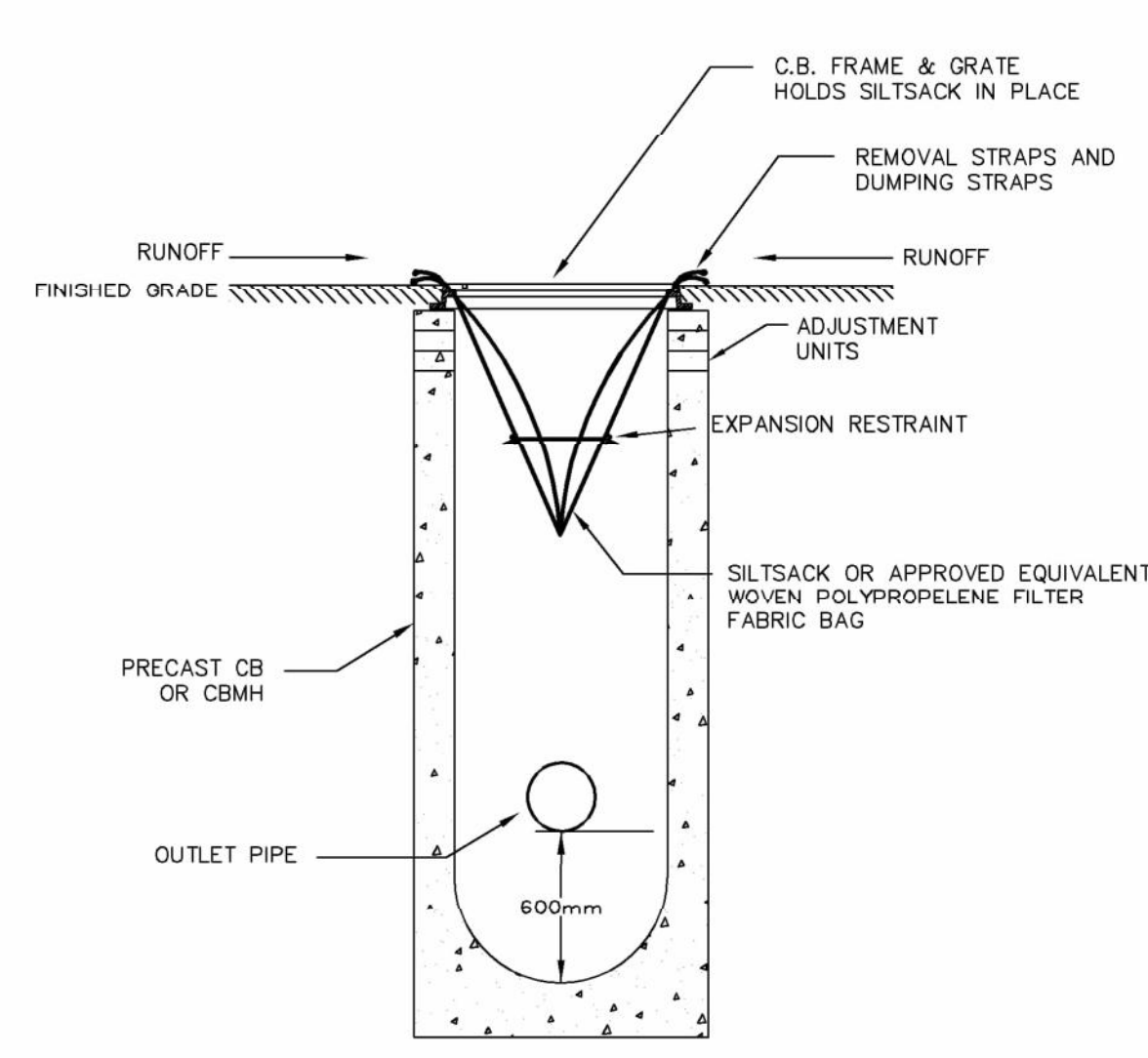
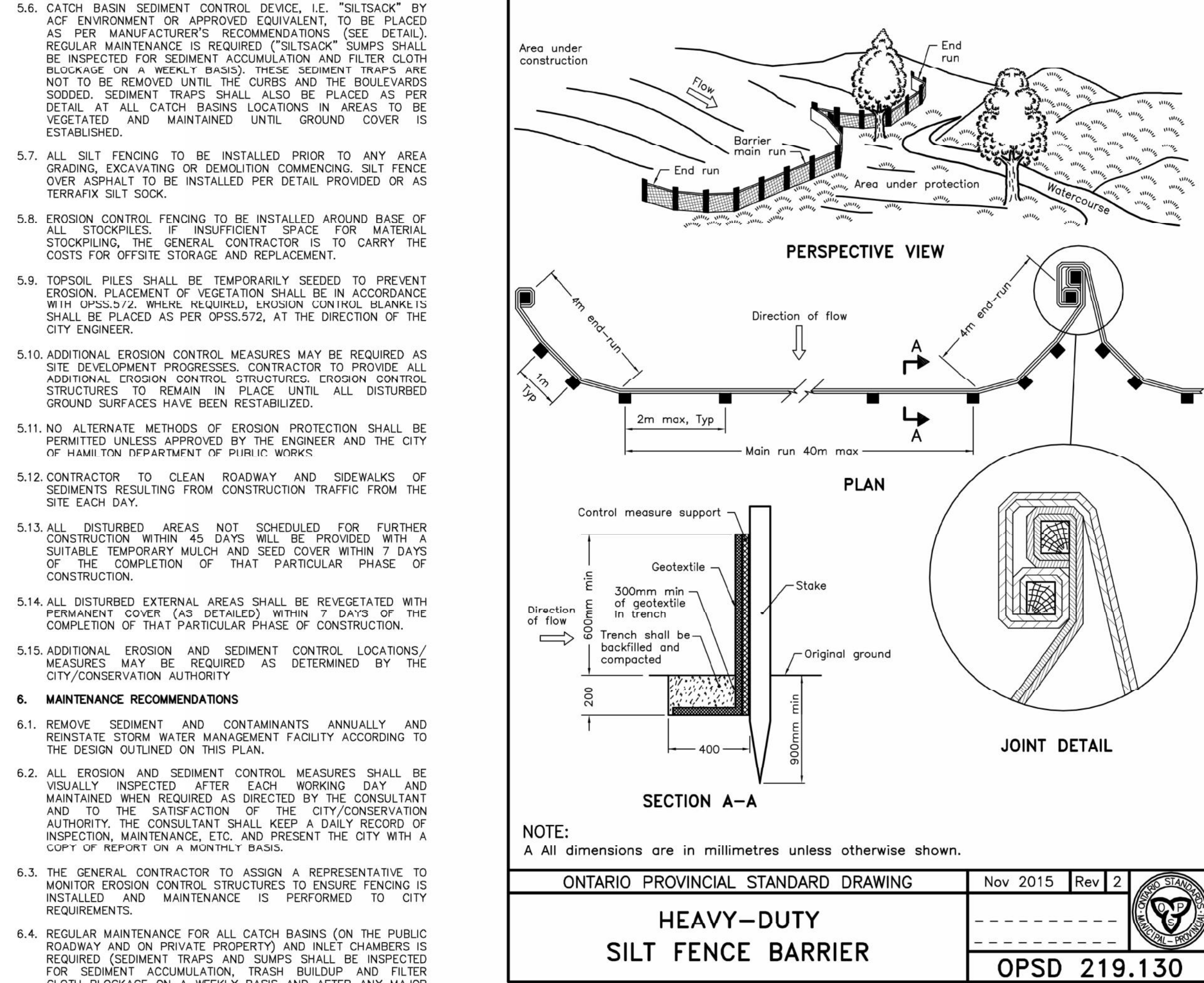
CONSTRUCTION NOTES AND SPECIFICATIONS

- GENERAL**
 - THIS PLAN IS NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY THE CITY OF HAMILTON.
 - THIS PLAN IS TO BE USED FOR GRADING AND SERVING ONLY; ANY OTHER INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. THIS PLAN MUST NOT BE USED TO SITE THE PROPOSED BUILDING.
 - NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
 - THIS PLAN IS NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF MTE CONSULTANTS INC.
 - THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING:
 - ROAD CUT PERMIT
 - APPROACH APPROVAL PERMITS
 - COMMITTEE OF ADJUSTMENT
 - SEWER PERMITS
 - RELOCATION OF SERVICES
 - ENCROACHMENT AGREEMENTS
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
 - CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT IS NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS. REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.
 - OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
 - VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
 - CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
 - THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
 - ALL WORKS ON A MUNICIPAL RIGHT-OF-WAY WILL BE INSTALLED BY CITY OF HAMILTON'S BONDED CONTRACTOR UPON APPLICATION BY THE GENERAL CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE. UNDER THE ROAD CUT PERMIT, THE CONTRACTOR IS TO MAKE CONNECTION TO THE SERVICES AND MAKE AND MAINTAIN THE TEMPORARY REPAIR OVER THE CUT, WITH PERMANENT REPAIR BEING MADE BY THE CITY OF HAMILTON'S BONDED CONTRACTOR AT THE GENERAL CONTRACTOR'S COST. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL BOULEVARD AREAS.
 - CONSTRUCTION OF SEWERS, WATERMAINS AND RELATED APPURTENANCES SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CITY OF HAMILTON CONSTRUCTION AND MATERIALS SPECIFICATIONS MANUAL (LATEST EDITION), THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND MINISTRY OF THE ENVIRONMENT GUIDELINES (LATEST EDITION). THE CITY DRAWINGS SHALL TAKE PRECEDENT OVER THE OPSD DRAWINGS.
 - ALL SEWERS ARE TO BE INSTALLED WITH A MINIMUM COVER OF 2.0m AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE ELEVATION OF THE MAIN SEWER, ON PRIVATE PROPERTY THE MINIMUM COVER IS TO BE NO LESS THAN 1.2m.
 - INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN ON THE APPROVED SET OF CONSTRUCTION DRAWINGS IS FURNISHED AS THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE SEES FIT WITH THE UNDERSTANDING THAT THE OWNER AND HIS AGENTS DISCLAIM ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY.
 - NO BLASTING WILL BE PERMITTED.
 - ALTERNATIVE MATERIALS WILL NOT BE ALLOWED UNLESS FIRST APPROVED IN WRITING BY THE CONSULTANT AND THE CITY OF HAMILTON.
 - APPROVED FILL, FREE OF DELETERIOUS AND ORGANIC MATERIAL AND BOULDERS SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE STANDARD PROCTOR DENSITY. AFTER COMPACTION, SOIL DENSITY TESTS SHALL BE CONDUCTED TO ENSURE ADEQUATE COMPACTION AND STABILITY OF THE FILL AND TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 2.2, GENERAL REVIEW. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
 - PLAN TO BE READ IN CONJUNCTION WITH SWM BRIEF AND DRAWING C1.1 PREPARED BY MTE CONSULTANTS INC.
 - SITE PLAN INFORMATION TAKEN FROM PLAN PREPARED BY ARCHITECTS INC., DATED OCTOBER 11, 2023.
 - EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY MATTHEWS, CAMERON, HEYWOOD-KERRY T. HOWE, DATED AUGUST 13, 2018. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.
 - RETAINING WALLS TO BE DESIGNED BY OTHERS. FOR WALLS EXCEEDING 1.0m IN HEIGHT, SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW AND APPROVAL. BUILDING PERMIT MUST BE OBTAINED. WALLS OVER 0.6m IN HEIGHT REQUIRE GUARDS. HIGH SIDE OF RETAINING WALLS TO BE BACKFILLED WITH FREE DRAINING MATERIAL.
 - SITE SERVING CONTRACTOR TO TERMINATE ALL SERVICES 1.0 METRES FROM FOUNDATION WALL.
 - FILTER FABRIC TO BE TERRAFIX 200R OR APPROVED EQUIVALENT.
 - MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNALS, DELINEATORS, MARKERS, AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS OF THE CITY OF HAMILTON AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND SHOULD THE GENERAL CONTRACTOR SHALL, UPON VERBAL AND/OR WRITTEN REQUEST BY THE CITY, IMMEDIATELY PROCEED WITH CLEAN-UP OPERATIONS AT THEIR EXPENSE. SHOULD THE GENERAL CONTRACTOR FAIL TO MAINTAIN THE ROAD AS DIRECTED, THE CITY WILL HAVE THE CLEANING CARRIED OUT, AND LAY CHARGES.
 - OVERLAND SHEET FLOW EROSION PROTECTION SHALL BE AS PER OPSD 219.130. IF EXCESSIVE SEDIMENT BUILDUP/BLOCKAGE OCCURS (VISUAL INSPECTION) THEN REPLACEMENT OF THE FILTER CLOTH IS REQUIRED.

- FOLLOWING COMPLETION OF PROPOSED WORKS AND PRIOR TO OCCUPANCY INSPECTION, ALL STORM AND SANITARY SEWERS ARE TO BE FLUSHED, AND ALL CATCHBASIN AND CATCHBASIN MANHOLE SUMPS ARE TO BE CLEANED OF DEBRIS AND SILT.
- APPROVAL OF THIS DRAWING IS FOR MATERIAL ACCEPTABILITY AND COMPLIANCE WITH MUNICIPAL AND PROVINCIAL SPECIFICATIONS AND STANDARDS ONLY. APPROVAL AND INSPECTION BY THE CITY OF THE WORKS DOES NOT CERTIFY THE LINE AND GRADE OF THE WORKS AND IT IS THE OWNER'S RESPONSIBILITY TO HAVE THEIR ENGINEER CERTIFY THIS ACCORDINGLY.
- STORM SEWERS**
 - PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRAN. "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - STORM SEWERS, 150mm AND SMALLER, SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SDR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
 - STORM SEWERS 200mm TO 375mm SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SDR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
 - MANHOLE AND MANHOLE CATCHBASINS TO BE 1200mm DIAMETER PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED. (NO SUMPS)
 - CATCHBASINS TO HAVE A MINIMUM 600mm DEEP SUMP. WHEN THE STRUCTURE INCLUDES THE INSTALLATION OF A SNIOUT (OR APPROVED EQUIVALENT) THE SUMP DEPTH TO BE MIN 2.5 TIMES THE OUTLET PIPE DIAMETER SIZE.
 - MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
 - STORM MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE 'B' CATCHBASIN AND CATCHBASIN MANHOLE GRATES TO BE PER OPSD 400.100.
 - STORM SEWERS AND SERVICES TO HAVE MINIMUM 1.2m COVER TO TOP OF PIPE.
 - PROPOSED SINGLE CATCH BASINS ARE TO BE AS OPSD 705.010 MODIFIED WITH A GOSS TRAP AS PER SEW-304.
 - MINIMUM HORIZONTAL SEPARATION BETWEEN WATER SERVICES/MAINS AND SEWER DRAINS AND MUNICIPAL SEWER MAINS SHALL BE 2.5m MEASURED FROM THE CLOSEST PIPE EDGE TO CLOSEST PIPE EDGE. VERTICAL SEPARATION WHERE WATER SERVICES PASS OVER A SEWER DRAIN OR MUNICIPAL SEWER MAIN MUST BE A MINIMUM OF 0.15m UNLESS GREATER SEPARATION IS REQUIRED TO PROVIDE FOR PROPER BEDDING AND STRUCTURAL SUPPORT. WATER SERVICES/MAINS PASSING UNDER SEWER DRAINS OR MUNICIPAL SEWER MAINS MUST HAVE A SEPARATION OF 0.5m BETWEEN THE INVERT OF THE SEWER MAIN/DRAIN AND THE CROWN OF THE WATERSERVICE/MAIN.

- GRADING NOTES**
 - ANY CHANGES IN GRADES AND CATCH BASINS REQUIRE THE APPROVAL OF THE DIRECTOR OF DEVELOPMENT ENGINEERING, PLANNING AND ECONOMIC DEVELOPMENT DEPARTMENT.
 - FILTER FABRIC TO BE TERRAFIX 270R OR APPROVED EQUAL.
 - MAXIMUM GRASSED SLOPE TO BE 3:1, SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
 - MINIMUM ASPHALT GRADE TO BE 1.0%, MINIMUM GUTTERLINE GRADE TO BE 0.5%.
 - CONTRACTOR TO MATCH EXISTING GRADES AT PROPERTY LINE UNLESS OTHERWISE NOTED.
 - ALL DRIVEWAYS FROM PROPERTY LINES FOR THE FIRST 7.5m SHALL BE WITHIN 5% MAX. GRADE, THEREAFTER, ALL DRIVEWAYS SHALL BE WITHIN 10% MAXIMUM GRADES.
 - PHICTION REMOVING ANY EXCESS SOILS FROM THE SITE. CONTRACTOR TO CONTACT THE ARCHITECT FOR DIRECTION ON CREATING EARTHEN BERMS ON-SITE.
 - ALL LANDSCAPED AREAS ARE TO HAVE A MINIMUM 2.0% SLOPE.
- RESTORATIONS**
 - RESTORATIONS TO CONFORM TO HAMILTON FORM 300.30.
 - RESTORATIONS OF ROAD OVER UTILITY CUTS IN HAMILTON TO BE AS PER STANDARD DRAWINGS RD-100.01 AND RD-100.02, WITH GRANULAR "A" BEDDING. THE CONTRACTOR MUST BE ROUNDED WITH THE CITY OF HAMILTON AND MAKE AND MAINTAIN THE TEMPORARY ROAD REPAIR OVER THE CUT, WITH PERMANENT REPAIR BEING MADE BY THE CITY CONTRACTOR AT THE OWNER/OWNER'S CONTRACTOR COST.
 - ALL BOULEVARDS TO BE RESTORED WITH #1 NURSERY SOD ON A MINIMUM 100mm OF SELECT TOPSOIL.
 - CONTRACTOR SHALL CO-ORDINATE THE REMOVAL AND REINSTALLATION OF EXISTING PARKING METERS AND/OR STREET SIGNS WITH THE CITY OF HAMILTON TRAFFIC DEPARTMENT.
 - ALL FENCES AFFECTED BY CONSTRUCTION SHALL BE REMOVED, TEMPORARILY RELOCATED AND/OR STOCKPILED IF APPROVED BY THE ENGINEER, AND REINSTATED UPON COMPLETION OF CONSTRUCTION.

- EROSION AND SEDIMENT CONTROL**
 - CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.
 - ALL EROSION AND SEDIMENT CONTROL MEASURES (TEMPORARY SEDIMENT CONTROL FENCES, STORM SEWER BULKHEADS, ROCK CHECK DAMS, WORK LIMIT FENCES, SEDIMENT BASINS, ETC.) MUST BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - TEMPORARY VEHICLE TRACKING CONTROLS TO BE CONSTRUCTED AS PER REQUIREMENTS IN "EROSION & SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION" DATED DECEMBER 2006, AT ALL ACCESS POINTS. CONTRACTOR SHALL MAINTAIN THESE AS REQUIRED AND AS DIRECTED BY THE CITY ENGINEER. MATS TO BE PROVIDED ON-SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE EFFECTIVENESS AT ALL TIMES.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL MUD AND DEBRIS THAT ARE TRACKED ONTO THE ROADWAYS FROM VEHICLES ENTERING OR LEAVING THE CONSTRUCTION SITE. THE GENERAL CONTRACTOR SHALL, UPON VERBAL AND/OR WRITTEN REQUEST BY THE CITY, IMMEDIATELY PROCEED WITH CLEAN-UP OPERATIONS AT THEIR EXPENSE. SHOULD THE GENERAL CONTRACTOR FAIL TO MAINTAIN THE ROAD AS DIRECTED, THE CITY WILL HAVE THE CLEANING CARRIED OUT, AND LAY CHARGES.
 - OVERLAND SHEET FLOW EROSION PROTECTION SHALL BE AS PER OPSD 219.130. IF EXCESSIVE SEDIMENT BUILDUP/BLOCKAGE OCCURS (VISUAL INSPECTION) THEN REPLACEMENT OF THE FILTER CLOTH IS REQUIRED.

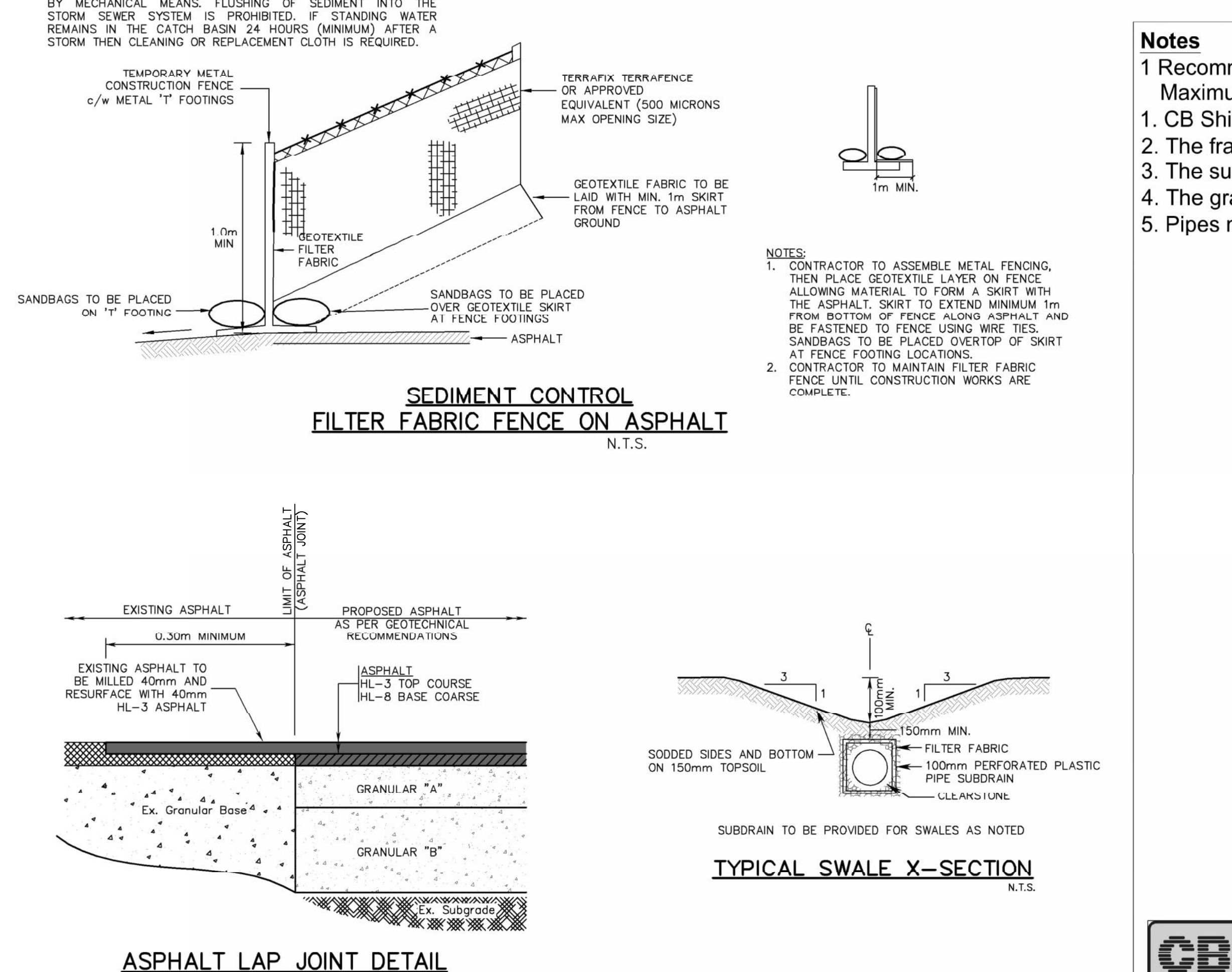


MAINTENANCE SCHEDULE
-INSPECT AFTER EVERY MAJOR RAIN EVENT.
-INSPECT EVERY 3 WEEKS MINIMUM
-SILT SACK SHOULD NEVER BE OVER HALF FULL
-FULL BAG CAN BE REMOVED, DUMPED, CLEANED AND REUSED (TO REMOVE INSERT 25mm REBAR INTO REMOVAL FLAP POCKETS)
-TO DUMP INSERT 25mm REBAR INTO BOTH DUMPING STRAPS)

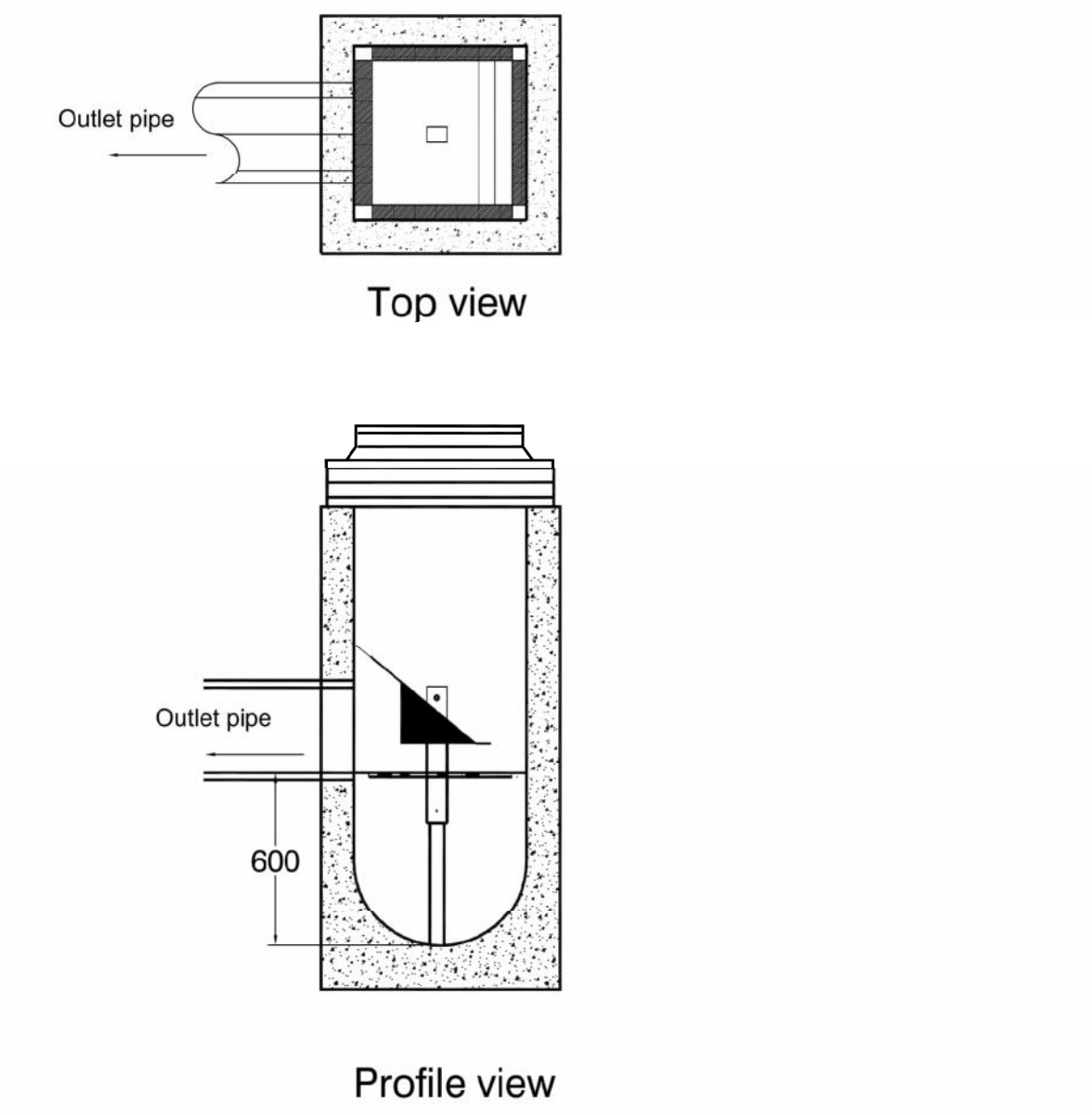
TEMPORARY SILT SACK SILTATION CONTROL IN CB

NOTE:
All dimensions are in millimetres unless otherwise shown.

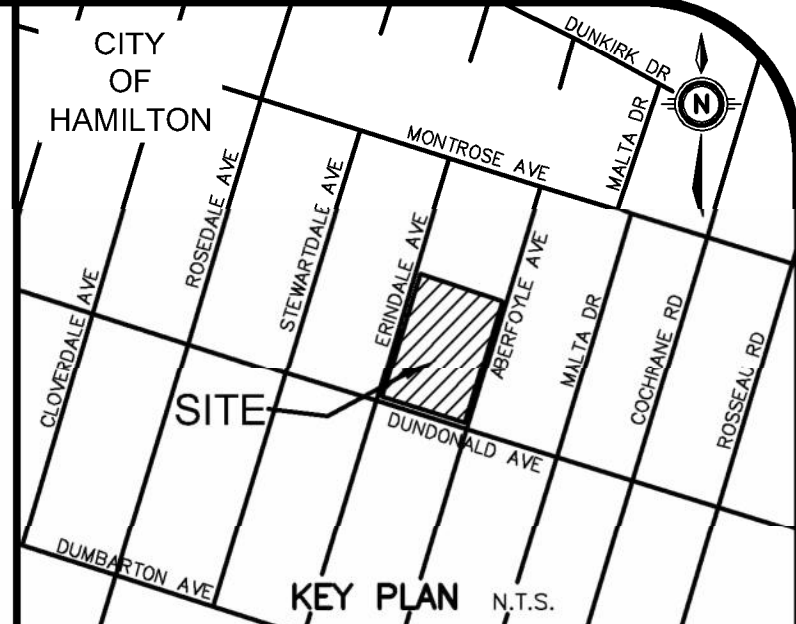
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 2
HEAVY-DUTY SILT FENCE BARRIER		
		OPSD 219.130



- Notes**
1 Recommended depth t/g - invert = 1.2m
Maximum depth t/g - invert = 2.4m
1. CB Shield to be installed in non frozen conditions.
2. The frame and cover should be well aligned with the catchbasin.
3. The sump must be clean before installation
4. The grate is at the same elevation as pipe invert.
5. Pipes must be cut flush with inside walls



600 x 600 CB CB Shield (600mm Sump)



GEODETIC BM ELEV. = 110.298m
ELEVATIONS ARE OF GEODETIC ORIGIN (CGVD-1928/78), AND ARE DERIVED FROM GEODETIC BENCHMARK 0011965U107 NEAR THE SOUTH-EAST CORNER OF ROSEDALE SCHOOL.

NOTE TO CONTRACTOR :
DO NOT SCALE DRAWINGS.
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.
THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT MTE CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY MTE CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

12. ISSUED FOR TENDER	GPB	APR. 25/24
11. ISSUED FOR TENDER	GPB	MAR 28/24
10. ISSUED FOR BUILDING PERMIT	GPB	JAN. 12/24
9. ISSUED FOR SPA	GPB	NOV. 20/23
8. ISSUED FOR SPA	KRR	APR. 23/19
7. ISSUED FOR SPA	KRR	MAR. 08/19
6. ISSUED FOR SPA	KRR	FEB. 04/19
5. ISSUED FOR BUILDING PERMIT	KRR	JAN. 23/19
4. ISSUED FOR SPA	KRR	DEC. 24/18
3. ISSUED FOR PERMITS	KRR	NOV. 09/18
2. ISSUED FOR SPA	KRR	OCT. 24/18
1. ISSUED FOR SPA	KRR	APR. 19/18
REV. REVISION	BY	DATE

MTE
Engineers | Scientists | Surveyors
(905) 639-2552
www.mte85.com

CGS CURRAN | GACESA | SLOTE ARCHITECTS
118 JAMES STREET NORTH HAMILTON
**ROSEDALE ELEM. SCHOOL
RENOVATION CIVIL WORKS**
25 ERINDALE AVENUE HAMILTON

Project Manager	K.RAMSEWAK	Project No.	43438-100
Design By	ALP	Checked By	JRA/KRR
Drawn By	SDU	Checked By	JRA/KRR
Surveyed By	OTHERS	Drawing No.	
Date	Mar.28/24		C2.2
Scale	AS NOTED	Sheet	3 of 3

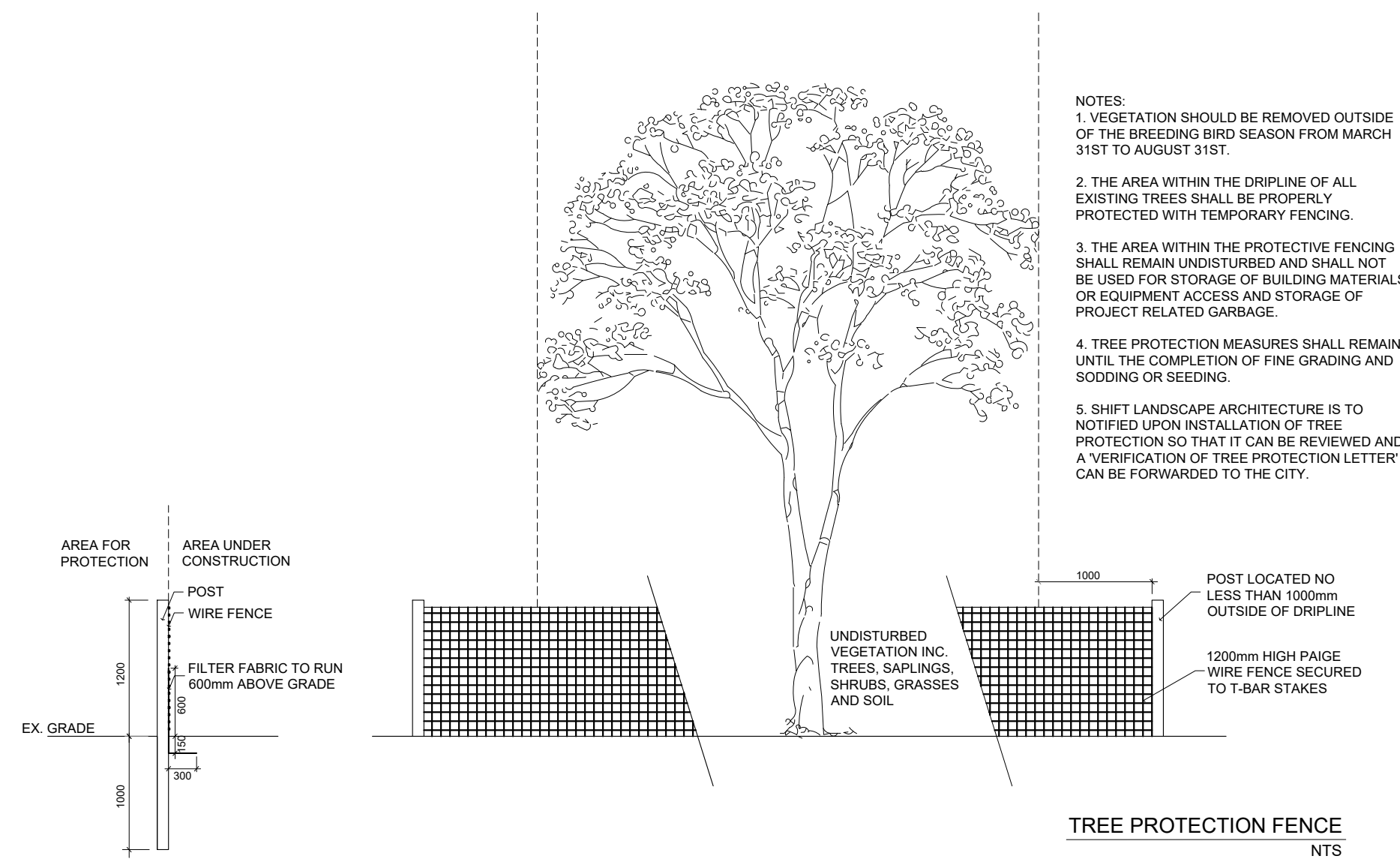
Tree Inventory

Location: Rosedale Public School, Hamilton

Note: rows with strikethrough have been removed at an earlier phase of the project.

Date: 11 Nov. 2017 Surveyors: JJJ Tree Survey updated by SHIFT Landscape Architecture, 2023-09-27.

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	CDB	GRADE CHANGE	UTILITY CONS.	OWNERSHIP	ACTION	COMMENTS
507	Silver Maple	Acer saccharinum	30, 20, 28	F	G	G	5	-	-	-	HWDSB	RETAIN	Union at 0.3m
508	Austrian Pine	Pinus nigra	55	G	FG	FG	5	-	-	-	HWDSB	RETAIN	Vertical scaffold limbs
509	Blue Spruce	Picea pungens	24	G	G	G	2	-	-	-	HWDSB	RETAIN	
510	Austrian Pine	Pinus nigra	47	G	G	G	5	-	-	-	HWDSB	RETAIN	
511	Blue Spruce	Picea pungens	32	G	G	G	3	-	-	-	HWDSB	RETAIN	Light lean
512	Norway Maple	Acer platanoides	32	G	G	G	4	-	-	-	HWDSB	RETAIN	
513*	Austrian Pine	Pinus nigra	32	G	G	FG	3	-	-	-	HWDSB	RETAIN	Removed at an earlier phase.
514	Shagbark Hickory	Carya ovata	34, 31	G	G	G	4	-	-	-	CITY OF HAMILTON	RETAIN	Union at ground
515	Shagbark Hickory	Carya ovata	47	G	G	G	5	-	-	-	CITY OF HAMILTON	RETAIN	
516	Shagbark Hickory	Carya ovata	33, 36	G	G	FG	6	-	-	-	CITY OF HAMILTON	RETAIN	Union at ground
517	Honey Locust (shademaster)	Gleditsia triacanthos 'nermis'	49	G	G	G	5	-	-	-	CITY OF HAMILTON	RETAIN	
518	Austrian Pine	Pinus nigra	44	G	G	G	4	-	-	-	HWDSB	RETAIN	
519	Austrian Pine	Pinus nigra	47	G	G	FG	4	-	-	-	HWDSB	RETAIN	Light bow
520	Honey Locust (shademaster)	Gleditsia triacanthos 'nermis'	45	G	G	G	7	-	-	-	HWDSB	RETAIN	
521	Norway Maple	Gleditsia triacanthos 'nermis'	26	G	G	G	4	-	-	-	HWDSB	REMOVE	CONSTRUCTION (Asphalt extension)
522	Norway Maple	Acer platanoides	29	FG	G	G	4	-	-	-	HWDSB	RETAIN	Exposed roots
523	Norway Maple	Acer platanoides	18	F	F	F	2	-	-	-	HWDSB	REMOVE	CONSTRUCTION (Berm)
524	Little-leaf Linden	Tilia cordata	30	FG	G	G	3	-	-	-	HWDSB	REMOVE	CONSTRUCTION (grading for berm refer to Site Plan)
525	Norway Maple	Acer platanoides	32	G	FG	FG	3	-	-	-	HWDSB	REMOVE	CONSTRUCTION (grading for berm refer to Site Plan)
526	Norway Maple	Acer platanoides	28	F	FG	FG	3	-	-	-	HWDSB	RETAIN	Moderate stem wounds
527	Norway Maple	Acer platanoides	34	G	G	G	5	-	-	-	HWDSB	RETAIN	Light exposed roots
528	Norway Maple	Acer platanoides	24	FG	G	G	3	-	-	-	HWDSB	RETAIN	Seam
A	Silver Maple	Acer saccharinum	~160	G	G	G	7	-	-	-	PRIVATE	RETAIN	Union at 1.5m
529	Norway Maple	Acer platanoides	35	G	G	G	5	-	-	-	HWDSB	RETAIN	Exposed roots light
530	Norway Maple	Acer platanoides	33	G	G	G	4	-	-	-	CITY OF HAMILTON	RETAIN	
531	Norway Maple	Acer platanoides	27	PF	F	FG	4	-	-	-	CITY OF HAMILTON	RETAIN	Heavy stem wound with dry rot
532	Norway Maple	Acer platanoides	28	F	FG	G	4	-	-	-	CITY OF HAMILTON	RETAIN	Moderate stem wound
533	Norway Maple	Acer platanoides	30	FG	G	G	4	-	-	-	CITY OF HAMILTON	RETAIN	Moderate stem wound
534	Norway Maple	Acer platanoides	18	F	G	FG	3	-	-	-	HWDSB	REMOVE	Moderate stem wound
535	Accolade Elm	Ulmus 'Morton'	4	G	G	G	1	-	-	-	CITY OF HAMILTON	RETAIN	
536	Red Maple	Acer rubrum	55	G	G	G	1	-	-	-	HWDSB	RETAIN	
537	Red Maple	Acer rubrum	58	G	G	G	1	-	-	-	HWDSB	RETAIN	
538	Red Maple	Acer rubrum	55	G	G	G	1	-	-	-	HWDSB	RETAIN	
539	Red Maple	Acer rubrum	62	G	G	G	1	-	-	-	HWDSB	RETAIN	
540	Tulip Tree	Liriodendron tulipifera	55	G	G	G	1	-	-	OVERHEAD LINES	CITY OF HAMILTON	RETAIN	
541	Tree Lilac	Syringa reticulata	41	G	G	G	1	-	-	-	CITY OF HAMILTON	RETAIN	
542	Tree Lilac	Ulmus spp.	60	G	G	G	1	-	-	-	CITY OF HAMILTON	RETAIN	
543	Unknown	Unknown	41	-	-	-	1	-	-	-	HWDSB	REMOVE	Dead. Remove for asphalt install.



*NOTE: TREE #513 WAS ORIGINALLY PROPOSED TO BE RETAINED BUT HAS BEEN REMOVED DURING AN EARLIER PHASE OF THE PROJECT. COMPENSATION WILL BE MADE IN THE FORM OF AN ADDITIONAL 60MM WB TREE PLANTING. REFER TO LANDSCAPE PLAN AND PLANTING PLAN, L.1 AND L.2.

LEGEND

- EX. PROPERTY LINE
- - - EX. CHAIN LINK FENCE
- ID # EX. TREE TO REMAIN
- ⊗ ID # EX. TREE DEAD OR REMOVED
- TREE PROTECTION FENCE

GENERAL NOTES:

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2. THE COPYRIGHT TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF SHIFT LANDSCAPE ARCHITECTURE. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY SHIFT IS FORBIDDEN.
3. DRAWINGS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED BELOW AS 'ISSUED FOR CONSTRUCTION'.
4. ALL WORK IS TO BE CARRIED OUT IN CONFORMANCE WITH THE CODES AND BYLAWS OF THE AUTHORITIES HAVING JURISDICTION.

SHIFT
LANDSCAPE ARCHITECTURE

100 CRIMEA STREET
GUELPH ONTARIO CANADA
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MBARKER@SHIFTLAND.COM



2024.03.28

REVISIONS

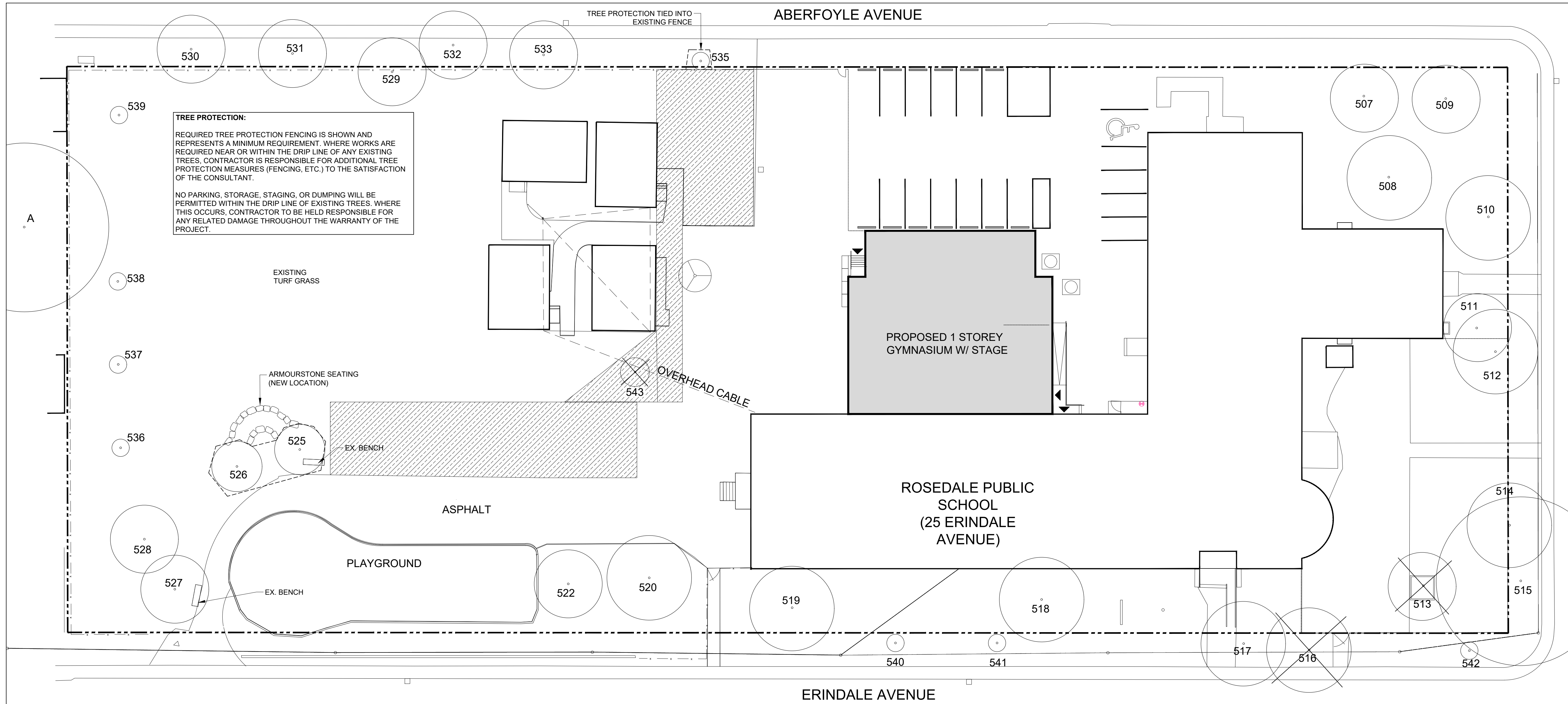
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4	2024.01.23	ISSUED FOR SPA
3	2023.11.21	ISSUED FOR SPA
2	2018.06.21	ISSUED FOR SPA
1	2018.02.16	ISSUED FOR SPA

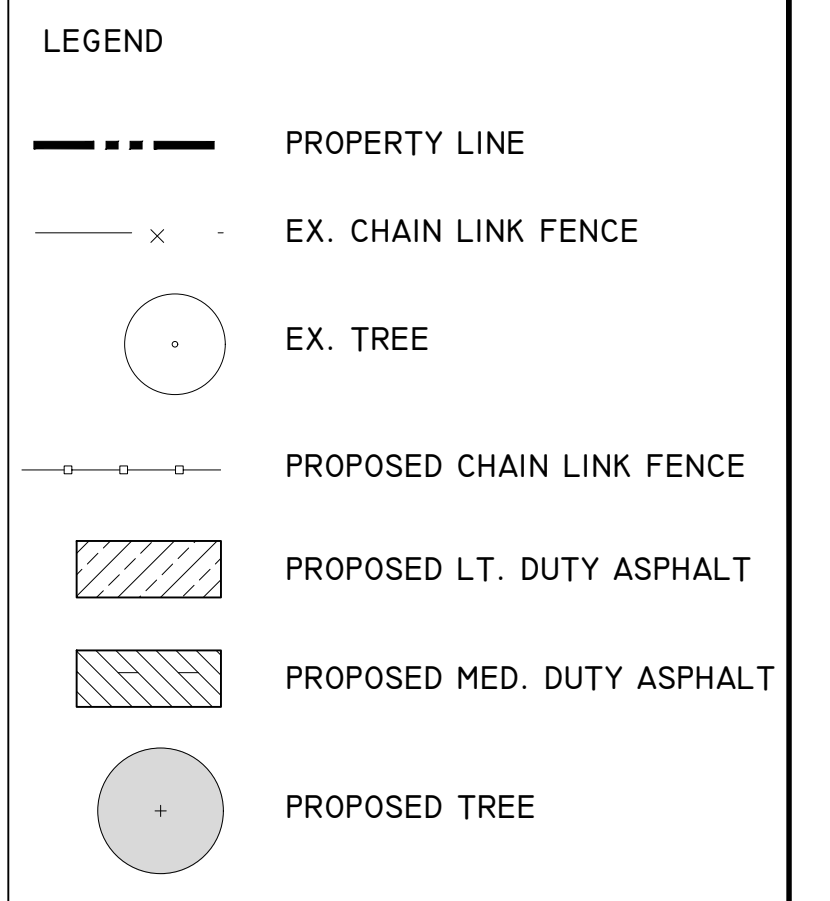
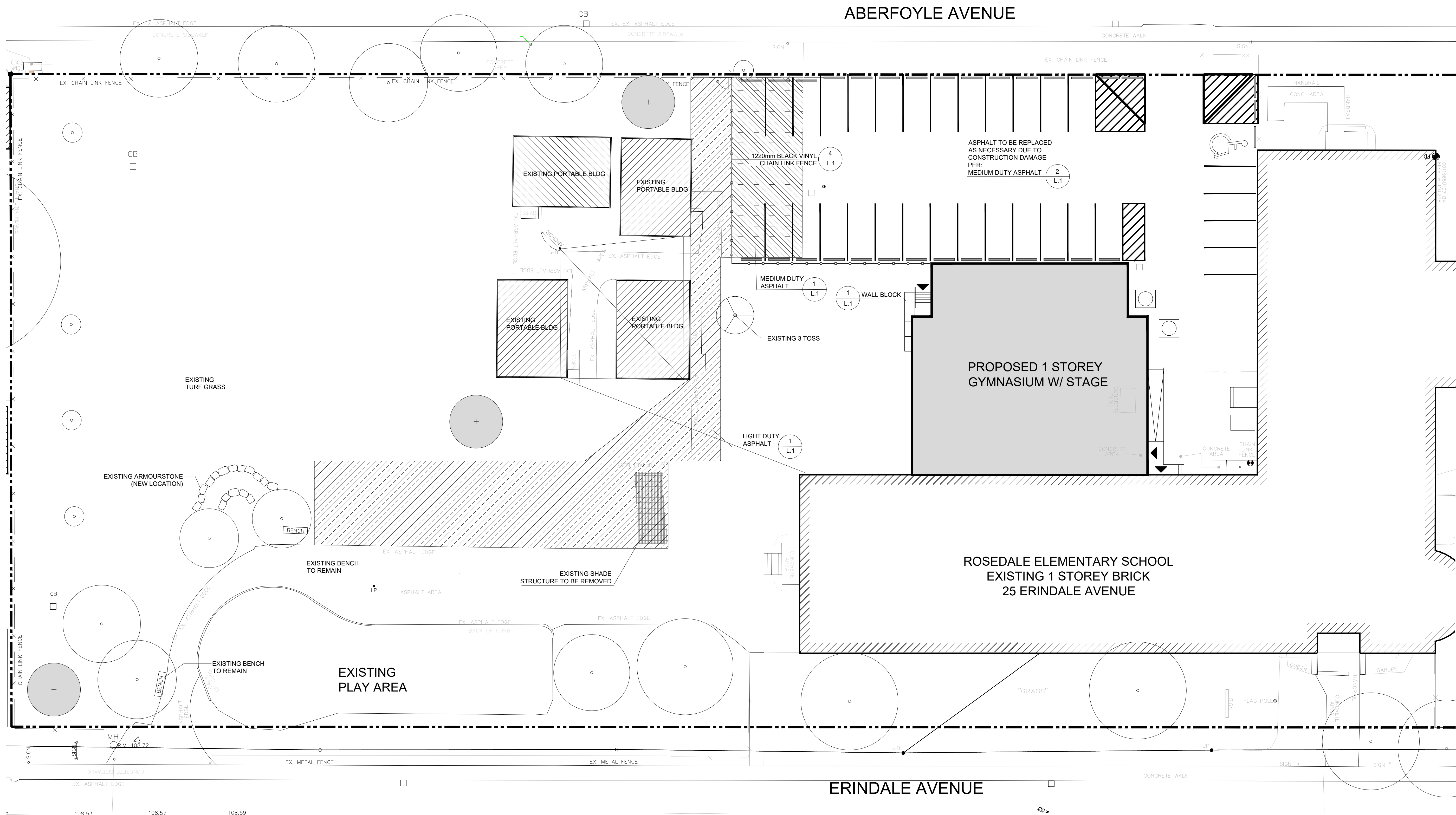
PROJECT
ROSEDALE ELEMENTARY
SCHOOL
25 ERINDALE AVE.
HAMILTON, ON

SHEET TITLE
TREE MANAGEMENT PLAN

SPA-18-094

DATE	ISSUED
MARCH 28, 2024	
JOB #	DRAWN BY
	CS
SCALE	CHECKED BY
1:250	MB
FILE #	SHEET
	TM.1





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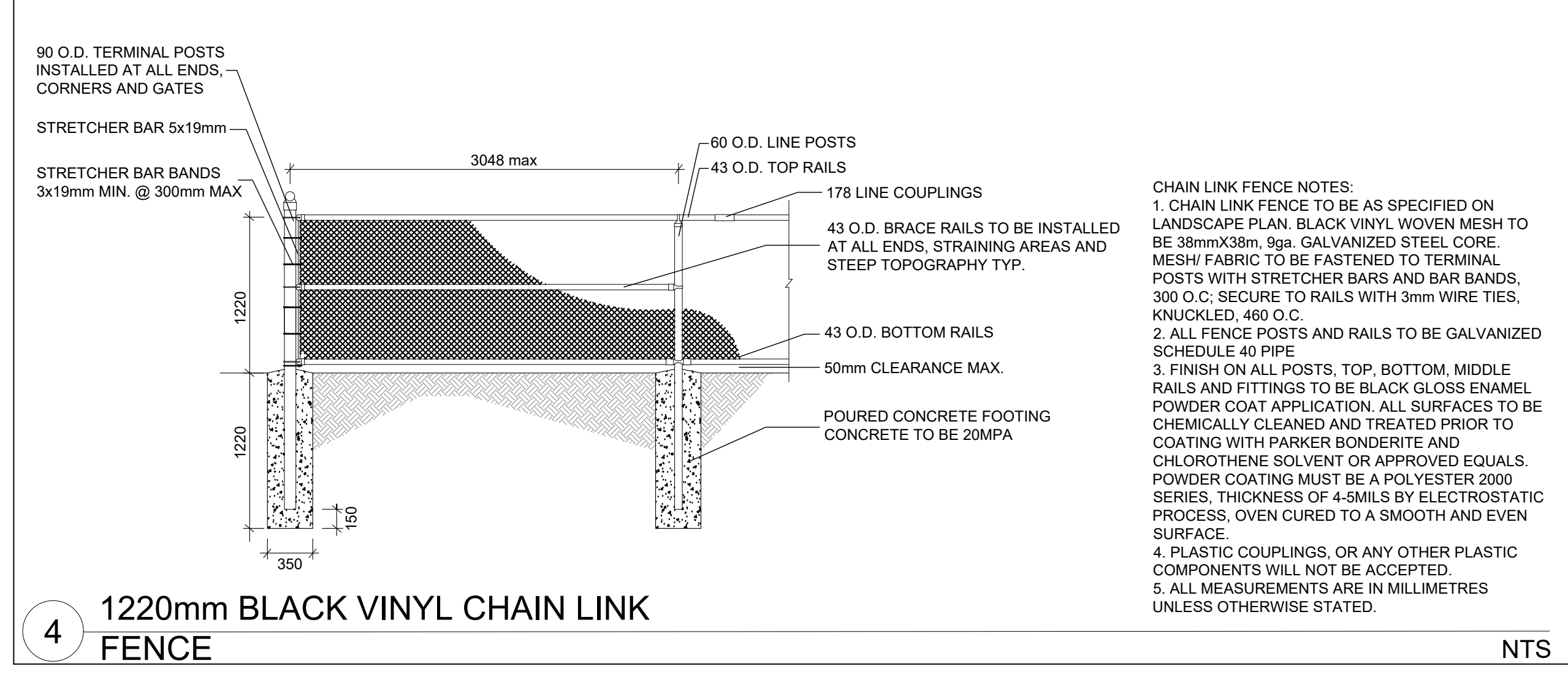
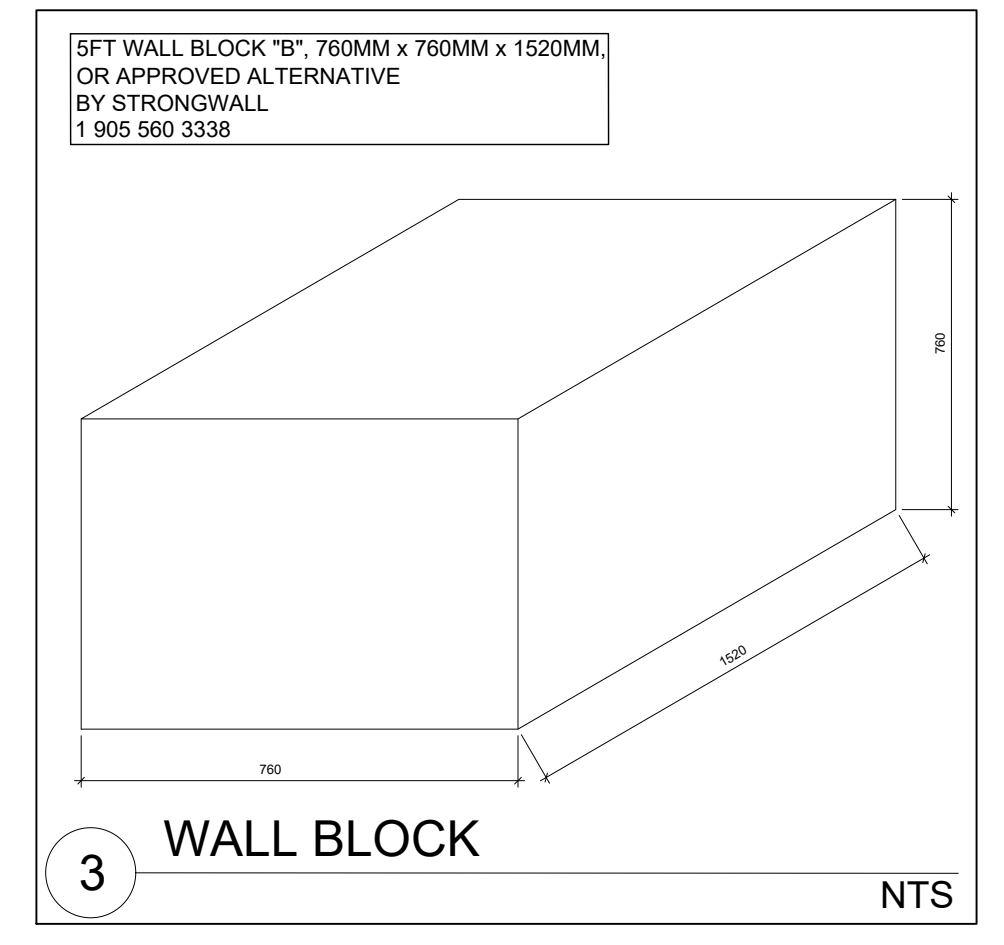
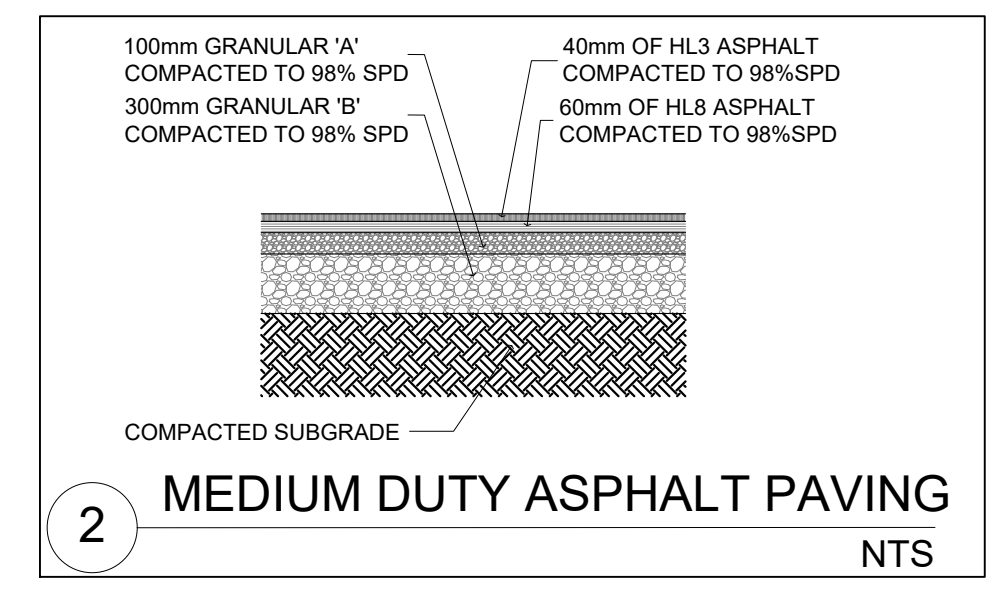
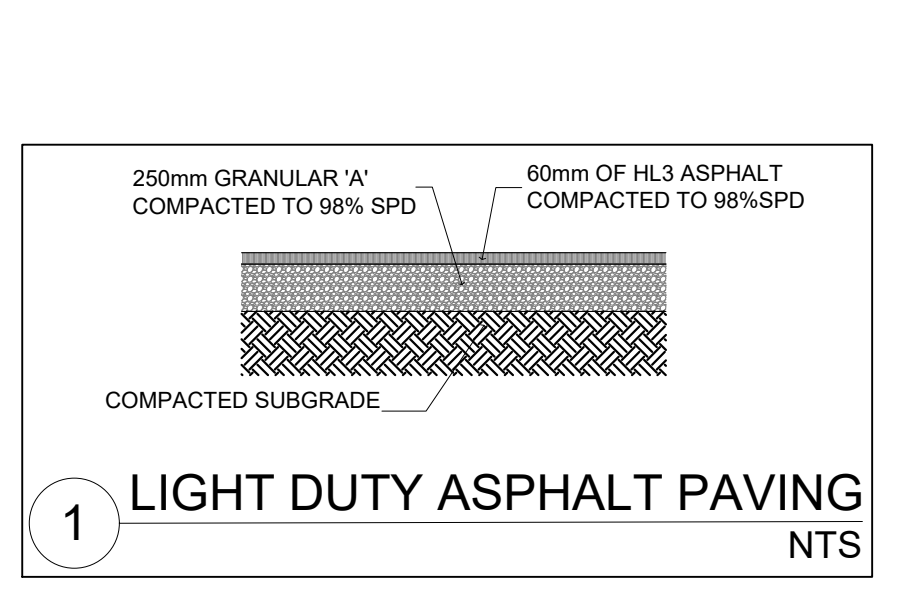
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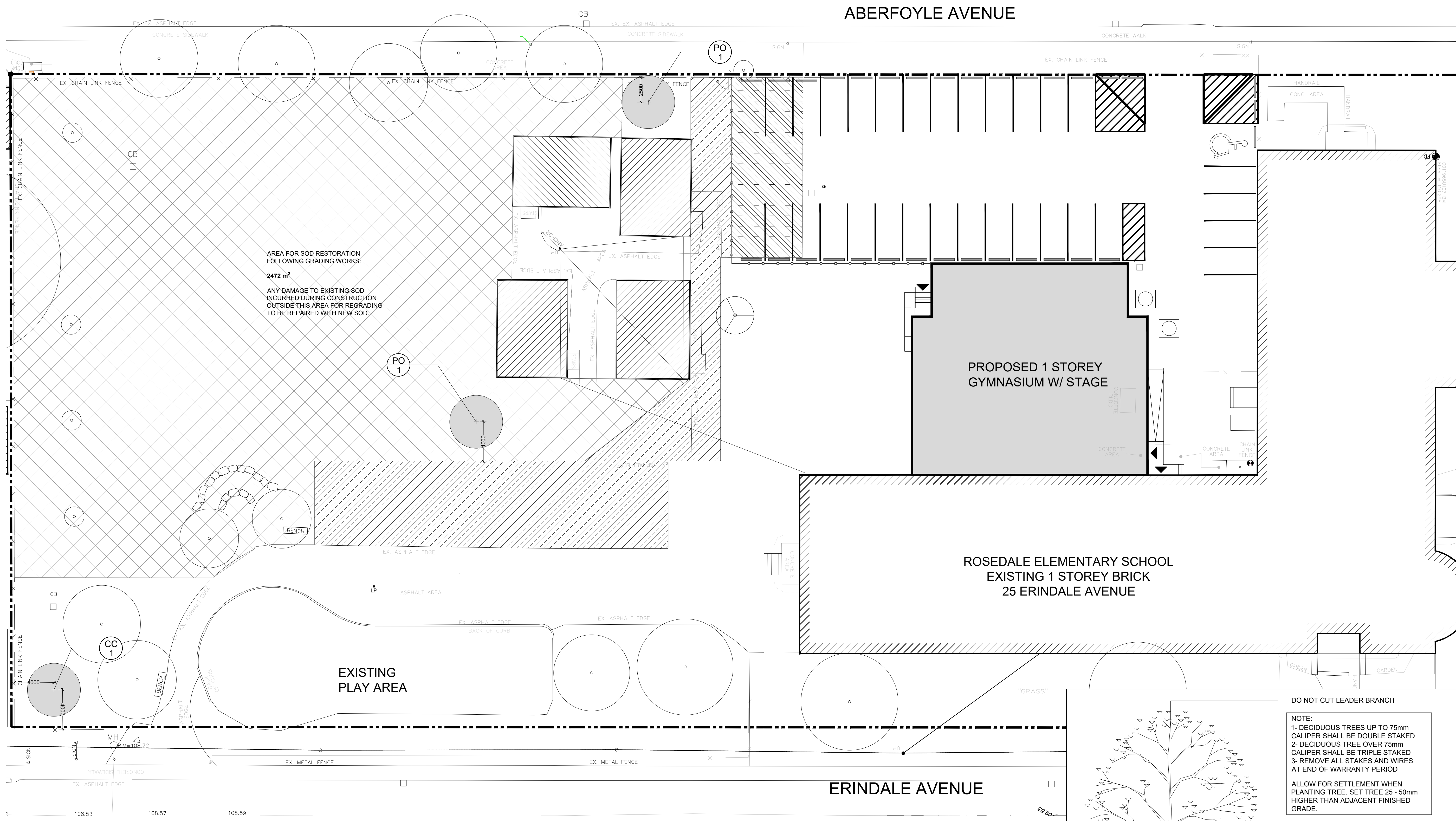
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PROJECT
ROSEDALE ELEMENTARY SCHOOL
25 ERINDALE AVE.
HAMILTON, ON

SHEET TITLE
LANDSCAPE PLAN
SPA-18-094

DATE	ISSUED
MARCH 28, 2024	
JOB #	DRAWN BY
	CS/KT
SCALE	CHECKED BY
1:200	MB
FILE #	SHEET
	L.1





AREA FOR SOD RESTORATION FOLLOWING GRADING WORKS:
2472 m²
ANY DAMAGE TO EXISTING SOD INCURRED DURING CONSTRUCTION OUTSIDE THIS AREA FOR REGRADING TO BE REPAIRED WITH NEW SOD.

PROPOSED 1 STOREY GYMNASIUM W/ STAGE

ROSEDALE ELEMENTARY SCHOOL EXISTING 1 STOREY BRICK 25 ERINDALE AVENUE

EXISTING PLAY AREA

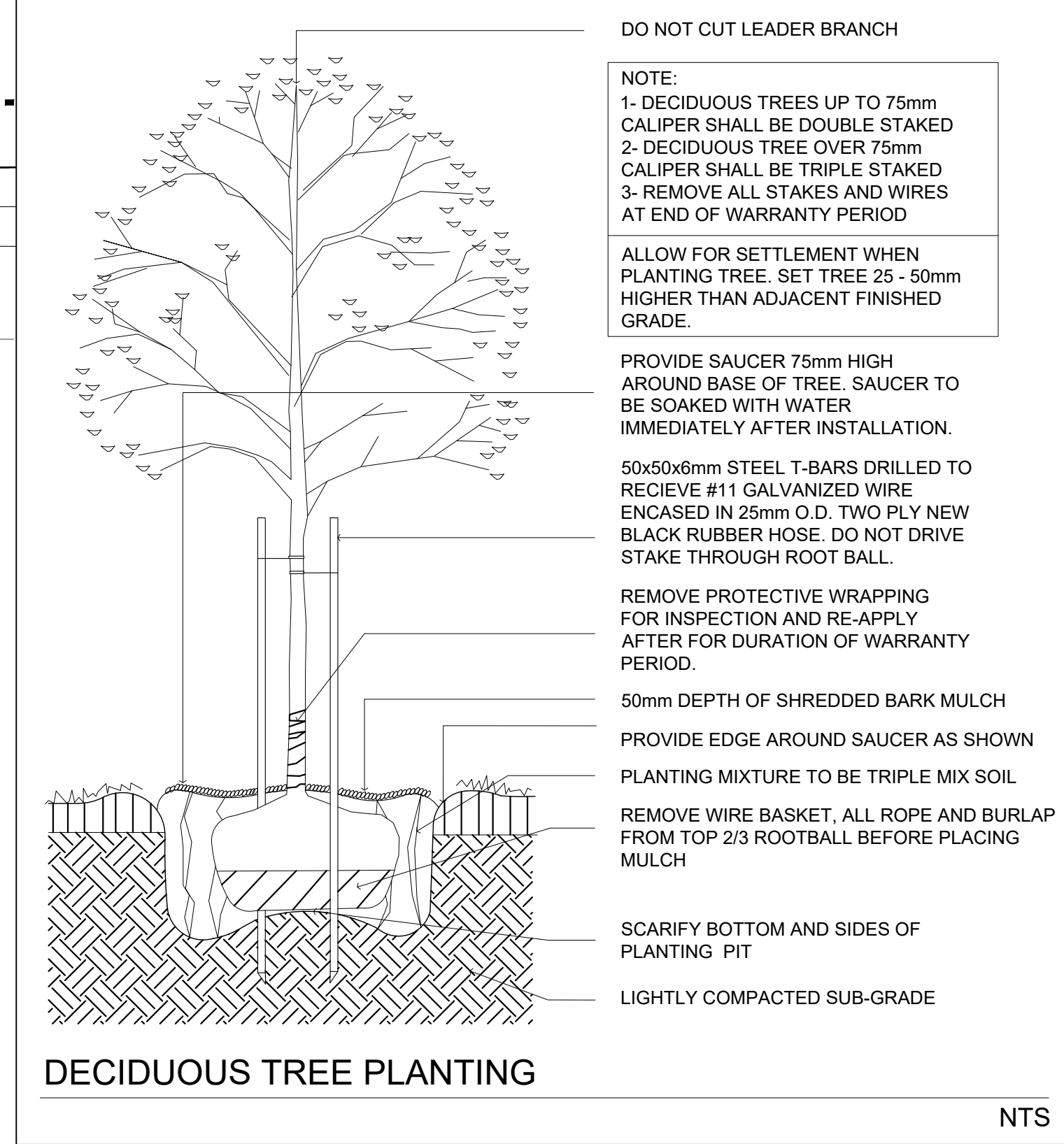
PLANTING NOTES

- PLANT MATERIAL INCLUDES TREES, WOODY SHRUBS, HERBACEOUS PERENNIALS, GRASSES, AND SOD.
- PLANT MATERIAL IS TO BE TRANSPLANTED WITHIN 24HRS OF ARRIVAL TO SITE.
- DURING THE WARRANTY PERIOD, REPLACE ALL MATERIAL THAT IS DEAD OR NOT IN A SATISFACTORY.
- HEALTHY GROWING STATE OR WHICH DOES NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS AT THE CONTRACT ADMINISTRATOR'S DISCRETION.
- THE SOLE DISCRETION OF THE CONTRACT ADMINISTRATOR AT NO EXTRA COST TO THE CONTRACT.
- ALL PLANT MATERIAL SHALL BE IN A HEALTHY, VIGOROUS GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD.
- SUPPLY AND INSTALL PLANT MATERIAL ON THE DRAWING. SUBSTITUTIONS WITH OTHER PLANT MATERIAL MUST BE PRESENTED IN WRITING AND ARE SUBJECT TO WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR.
- MULCH TO BE FREE OF WEED SEED AND OTHER CONTAMINANTS.
- ALL PLANT MATERIAL MUST BE NURSERY GROWN AND MEET THE SPECIFICATIONS SET OUT IN THE LATEST GUIDE SPECIFICATIONS FOR NURSERY STOCK PREPARED BY THE CANADIAN NURSERY LANDSCAPE ASSOCIATION (CNLA).
- FOR SIZE, HEIGHT, SPREAD, GRADING, QUALITY AND METHOD OF CULTIVATION.
- PLANT MATERIAL TRUE TO NAME AND TYPE, STRUCTURALLY SOUND, WELL BRANCHED, HEALTHY AND VIGOROUS AND FREE FROM DISEASE, INSECT INFESTATIONS, RODENT DAMAGE, SUN SCALD, FROST CRACKS AND OTHER ABRASIONS TO THE BARK.
- AND DENSELY FOLIATED WITH A HEALTHY, WELL DEVELOPED ROOT SYSTEM. PRUNING WOUNDS MUST SHOW VIGOROUS BARK.
- ON ALL EDGES AND ALL PARTS MUST SHOW LIVE AND GREEN CAMBIUM TISSUE WHEN CUT.
- ALL MATERIAL MUST CONFORM TO THE SIZES ON THE PLANT LIST. SUBSTITUTION OF LARGER MATERIAL IS SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR AND WILL NOT RESULT IN AN ADDITION TO THE CONTRACT PRICE.
- KEEP SITE CLEAN AND PLANTING HOLES DRAINED. IMMEDIATELY REMOVE SOIL OR DEBRIS SPILLED ON TO PAVEMENT.
- PLANT ONLY UNDER CONDITIONS THAT ARE CONDUCTIVE TO THE HEALTH AND PHYSICAL CONDITIONS OF PLANTS.
- IMMEDIATELY REMOVE ALL REJECTED PLANT MATERIALS FROM THE SITE.
- THE LOCATIONS OF TREES WHERE SHOWN NO DRAWINGS IS APPROXIMATE ONLY AND MAY REQUIRE ADJUSTMENT DUE TO SITE CONDITIONS. ALL TREE LOCATIONS TO BE STAKED OUT BY CONTRACTOR AND APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.
- ALL PLANTS SHALL BE PLACED IN A PLUMB POSITION. PREPARED BACKFILL SHALL BE PLACED AROUND THE ROOT SYSTEM. TAMPING OR WATERING SHALL ACCOMPANY THE BACKFILLING OPERATION TO ELIMINATE AIR POCKETS.
- WATER ALL PLANTS IMMEDIATELY UPON COMPLETION OF PLANTING.
- PRIOR TO MULCHING ENSURE THERE ARE NO WEEDS OR DEBRIS. SPREAD MULCH TO DEPTH INDICATED ON DETAILS. FOR GROUND COVER ENSURE 30CM FREE SPACE AROUND EACH NEW PLANT TO ALLOW FOR GROWTH.
- DURING WARRANTY PERIOD THE CONTRACTOR IS TO ENSURE PLANTS ARE IN A HEALTHY, WELL MAINTAINED STATE, BY INSPECTING THE SITE AT REGULAR INTERVALS. WATER ONCE A WEEK FOR THE FIRST 4 WEEKS AND THEN SUFFICIENTLY THEREAFTER TO MAINTAIN OPTIMUM GROWING CONDITIONS. ENSURE ADEQUATE MOISTURE IN ROOT ZONE AT FREEZE UP.

PLANTING SCHEDULE

Deciduous Trees				
Symbol	QTY	Botanical Name	Common Name	Size
CC	1	Cercis canadensis	Redbud	60mm WB (Treeform)
PO	2	Platanus occidentalis	American Sycamore	60mm WB

SPECIES SOURCING NOTE:
AMERICAN SYCAMORE (*PLATANUS OCCIDENTALIS*) HAS BEEN IDENTIFIED AS LOCALLY RARE. TO ENSURE THAT THE EXISTING GENE POOL IS NOT IMPACTED, THESE TREES MUST BE GROWN FROM A LOCAL SEED SOURCE (WITHIN 250 KM RADIUS). SPECIMENS FROM A LOCAL NURSERY THAT HAS IMPORTED TREES FROM OUTSIDE THAT RADIUS WILL NOT BE ACCEPTED.



DO NOT CUT LEADER BRANCH
NOTE:
1- DECIDUOUS TREES UP TO 75mm CALIPER SHALL BE DOUBLE STAKED
2- DECIDUOUS TREE OVER 75mm CALIPER SHALL BE TRIPLE STAKED
3- REMOVE ALL STAKES AND WIRES AT END OF WARRANTY PERIOD
ALLOW FOR SETTLEMENT WHEN PLANTING TREE. SET TREE 25 - 50mm HIGHER THAN ADJACENT FINISHED GRADE.

PROVIDE SAUCER 75mm HIGH AROUND BASE OF TREE. SAUCER TO BE SOAKED WITH WATER IMMEDIATELY AFTER INSTALLATION.
50x50x6mm STEEL T-BARS DRILLED TO RECEIVE #11 GALVANIZED WIRE ENCASED IN 25mm O.D. TWO PLY NEW BLACK RUBBER HOSE. DO NOT DRIVE STAKE THROUGH ROOT BALL.
REMOVE PROTECTIVE WRAPPING FOR INSPECTION AND RE-APPLY AFTER FOR DURATION OF WARRANTY PERIOD.
50mm DEPTH OF SHREDDED BARK MULCH
PROVIDE EDGE AROUND SAUCER AS SHOWN
PLANTING MIXTURE TO BE TRIPLE MIX SOIL
REMOVE WIRE BASKET, ALL ROPE AND BURLAP FROM TOP 2/3 ROOTBALL BEFORE PLACING MULCH
SCARIFY BOTTOM AND SIDES OF PLANTING PIT
LIGHTLY COMPACTED SUB-GRADE

DECIDUOUS TREE PLANTING

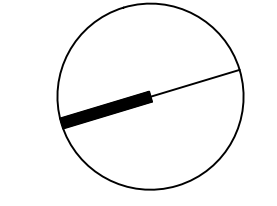
NTS

- LEGEND**
- PROPERTY LINE
 - EX. CHAIN LINK FENCE
 - EX. TREE
 - PROPOSED CHAIN LINK FENCE
 - PROPOSED LT. DUTY ASPHALT
 - PROPOSED MED. DUTY ASPHALT
 - PROPOSED TREE
 - PROPOSED SOD

- GENERAL NOTES:**
- CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND IS TO IMMEDIATELY REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
 - THE COPYRIGHT TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF SHIFT LANDSCAPE ARCHITECTURE. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY SHIFT IS FORBIDDEN.
 - DRAWINGS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED BELOW AS 'ISSUED FOR CONSTRUCTION'.
 - ALL WORK IS TO BE CARRIED OUT IN CONFORMANCE WITH THE CODES AND BYLAWS OF THE AUTHORITIES HAVING JURISDICTION.

SHIFT
LANDSCAPE ARCHITECTURE

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2024.03.28

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