

HALTON CATHOLIC DISTRICT SCHOOL BOARD

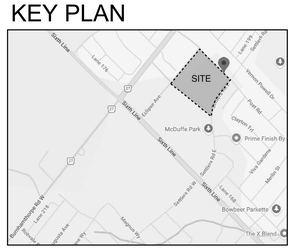
ISSUED FOR TENDER

NORTH OAKVILLE 3 CATHOLIC ELEMENTARY SCHOOL

3500 POST ROAD.
OAKVILLE, ON

NOVEMBER 2026

KEY PLAN



HOSSACK
ARCHITECTURE
105 - 1939 IRONOAK WAY
OAKVILLE ON L6H 3V8
(905) 815-8284 admin@hossackarch.com

Salas O'Brien
2235 Sheppard Avenue East, Suite 1100
Toronto, ON M2J 5B5
Canada
(416) 635 - 9970

DEI Consulting Engineers
MECHANICAL, ELECTRICAL, acoustic
(519) 725-3555
55 Northland Rd.
Waterloo, ON N2V 1Y8
www.deiassociates.ca

MGM
CONSULTING INC
Consulting Engineering & Project Management
400 Bronte Street South
Suite 201
Milton, Ontario
L9T 0H7
Tel: (905) 567-6678
Fax: (905) 875-1399
Email: mgm@mgm-on.ca
www.mgm-on.ca

FRP Inc.
landscape.architects
1877 Davenport Road
Toronto, M6N 1B9
www.frpinc.ca

North Oakville #3 CATHOLIC ELEMENTARY SCHOOL

SITE

SV TOPOGRAPHIC SURVEY
SP1 SITE PLAN
SP2 SITE PLAN DETAILS

CIVIL

CV-1 REMOVALS, EROSION & SEDIMENT CONTROL PLAN
CV-2 SITE GRADING PLAN
CV-3 SITE SERVICING PLAN
CV-4 DETAILS

LANDSCAPE

L100 LANDSCAPE PLAN
L105 EARLY LEARNING LANDSCAPE PLAN
L110 FORECOURT LANDSCAPE PLAN
L115 LEARNING COURTYARD LANDSCAPE PLAN
L120 LANDSCAPE SUB-DRAINAGE PLAN
L200 PLANTING PLAN
L205 TREE CANOPY PLAN
L205 SOIL VOLUMN PLAN
L300 LANDSCAPE DETAILS
L301 LANDSCAPE DETAILS
L320 EARLY LEARNING PLAY AREA DETAILS
L321 EARLY LEARNING PLAY AREA DETAILS
L322 EARLY LEARNING PLAY AREA DETAILS

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A02 GROUND FLOOR PLAN
A03 SECOND FLOOR PLAN
A04 ROOF PLAN
A05 REFLECTED CEILING PLAN - GROUND FLOOR
A06 REFLECTED CEILING PLAN - SECOND FLOOR
A07 EXTERIOR ELEVATIONS
A08 BUILDING SECTIONS
A09 BUILDING SECTIONS & DETAILS
A10 WALL SECTIONS AND DETAILS
A11 WALL SECTIONS AND DETAILS
A12 WALL SECTIONS AND DETAILS
A13 WALL SECTIONS AND DETAILS
A14 PLAN & SECTION DETAILS
A15 INTERIOR ELEVATIONS
A16 INTERIOR ELEVATIONS
A17 WASHROOM ENLARGMENTS & INTERIOR ELEVATIONS
A18 STAIR PLANS AND DETAILS
A19 GYMNASIUM PLAN, ELEVATIONS & DETAILS
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A21 FLOOR PATTERNS AND DETAILS

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S1-02 SECOND FLOOR FRAMING PLAN
S1-03 ROOF FRAMING PLAN
S1-04 WIND UPLIFT DIAGRAM PLAN
S2-01 COLUMN SCHEDULE
S3-01 LATERAL STEEL FRAME ELEVATIONS
S4-01 FOUNDATION SECTIONS
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S5-01 FLOOR SECTIONS
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S6-02 ROOF SECTIONS
S6-03 ROOF SECTIONS
S7-01 GENERAL NOTES
S7-02 TYPICAL DETAILS
S7-03 TYPICAL SETAILS
S7-04 TYPICAL DETAILS
S7-05 TYPICAL DETAILS

MECHANICAL

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M02 SCHEDULES
M03 SCHEUDLES
M04 GROUND FLOOR - BELOW GRADE DRAINAGE PLAN
M05 GROUND FLOOR - DRAINAGE PLAN
M06 SECOND FLOOR - DRAINAGE PLAN
M07 GROUND FLOOR - PIPING PLAN
M08 SECOND FLOOR - PIPING PLAN
M09 GROUND FLOOR - VENTILATION PLAN
M10 SECOND FLOOR - VENTILATION PLAN
M11 VENTILATION SECTIONS
M12 MECHANICAL ROOM PARTIAL PLANS
M13 MECH ROOM PART PLANS, DETAILS & UNIT DETAIL
M14 SCHEMATICS
M15 ROOF PLAN & DETAILS

ELECTRICAL

E01 SITE PLAN
E02 LEGEND & SCHEDULES
E03 DETAILS PAGE 1 OF 2
E04 DETAILS PAGE 2 OF 2
E05 GROUND FLOOR LIGHTING PLAN
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E07 LIGHTING CONTROLS PAGE 1 OF 3
E08 LIGHTING CONTROLS PAGE 2 OF 3
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E10 GROUND FLOOR POWER & SYSTEMS PLAN
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E13 ENLARGED PLANS
E14 DISTRIBUTION RISER DIAGRAM
E15 PANEL SCHEDULES
E16 COMMUNICATIONS RISER
E17 FIRE ALARM RISER & PASSIVE GRAPHIC
E18 EQUIPMENT WIRING SCHEDULE

SET No.

PROJECT NUMBER

24106

TOPOGRAPHIC SURVEY OF

BLOCK 7, REGISTERED PLAN 20M-1250
AND
BLOCK 11, REGISTERED PLAN 20M-1302
TOWN OF OAKVILLE

REGIONAL MUNICIPALITY OF HALTON

SCALE 1:250

5 0 5 10 15 METRES

GRAPHIC SCALE

INTEGRATION DATA

BEARINGS ARE UTM GRID, DERIVED FROM THE OBSERVED REFERENCE POINTS "A" AND "B" BY REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS-2010.0)

OBSERVED REFERENCE POINTS (ORPs): UTM ZONE 17, NAD-83 (CSRS-2010.0). CO-ORDINATES TO URBAN ACCURACY PER SEC. 14(2) OF O.REG. 216/10.

POINT N°	NORTHING	EASTING
"A"	4,816,385.73	601,515.25
"B"	4,816,532.43	601,629.04

CO-ORDINATES CAN NOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

METRIC NOTE

ALL DISTANCES AND COORDINATES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

BENCH MARK NOTE:

ALL ELEVATIONS SHOWN HERE ON ARE GEODETIC AND ARE RELATED TO THE TOWN OF OF OAKVILLE BENCH MARK NO. 276 HAVING AN ELEVATION OF 175.723m (CGVD 1928/1978 ADJUSTMENT).

CONTOUR NOTE:

CONTOUR INTERVAL = 0.25 METRES

LEGEND

■	DENOTES	SURVEY MONUMENT FOUND
□	"	SURVEY MONUMENT SET
SIB	"	STANDARD IRON BAR
SSIB	"	SHORT STANDARD IRON BAR
PB	"	PLASTIC BAR
PI	"	PLASTIC PIN
M	"	MD IDENTIFICATION
950	"	CUNNINGHAM McCONNELL LIMITED
PIN	"	PROPERTY IDENTIFIER NUMBER
MEAS.	"	MEASURED
JUR	"	J.D. BARNES LTD. O.L.S.
P1	"	REGISTERED PLAN 20M-1250
P2	"	REGISTERED PLAN 20M-1302

TOPOGRAPHIC LEGEND

ASP.	DENOTES ASPHALT
⟵	DENOTES ANCHOR WIRE
BOB	DENOTES BOTTOM OF BANK
CB	DENOTES CATCH BASIN
CCG	DENOTES CONCRETE CURB & GUTTER
CCUT	DENOTES CURB CUT
CLF	DENOTES CHAIN LINK FENCE
CONC.	DENOTES CONCRETE
CON 0.30	DENOTES CONIFEROUS TREE WITH 0.30m TRUNK DIA.
CSW	DENOTES CONCRETE SIDEWALK
DEC 0.30	DENOTES DECIDUOUS TREE WITH 0.30m TRUNK DIA.
FH	DENOTES FIRE HYDRANT
GV	DENOTES GAS VALVE
HT	DENOTES HYDRO TRANSFORMER
LS	DENOTES LIGHT STANDARD
MH	DENOTES MANHOLE
⟶	DENOTES STREET SIGN
SAN	DENOTES SANITARY
STM	DENOTES STORM
TOB	DENOTES TOP OF BANK
UP	DENOTES UTILITY POLE
V	DENOTES VAULT
WV	DENOTES WATER VALVE
—x—	DENOTES FENCE LINE
—.—	DENOTES OVERHEAD WIRE
—o—o—	DENOTES UNDERGROUND GAS
—.—.—	DENOTES UNDERGROUND BELL
—.—.—.—	DENOTES UNDERGROUND FIBRE OPTICS
—.—.—	DENOTES UNDERGROUND STORM SEWER
—.—.—.—	DENOTES UNDERGROUND SANITARY SEWER
—.—.—	DENOTES UNDERGROUND HYDRO
—.—.—	DENOTES WATER SERVICE
▭	DENOTES TACTILE MAT

PARCEL AREA

TOTAL AREA OF PIN 24929-6974(LT) WAS CALCULATED AS 2.0003 Hectares.
TOTAL AREA OF PIN 24929-7782(LT) WAS CALCULATED AS 0.4711 Hectares.
THE COMBINE AREA OF PIN 24929-6974(LT AND 24929-7782(LT) IS 2.4714 Hectares.

BLOCK 8 PIN 24929-7779

BLOCK 7 PIN 24929-7778

BLOCK 6 PIN 24929-7777

BLOCK 5 PIN 24929-7776

BLOCK 13 PIN 24929-7784 (SWM DETENTION POND)

BLOCK 12 PIN 24929-7783 (TOWN OF OAKVILLE PARK)

PIN 24929-7782(LT) AREA = 0.4711 Ha

BLOCK 11 REGISTERED PLAN 20M-1302

BLOCK 17 (0.30 RESERVE) PIN 24929-6984 (LT)

REGISTERED PLAN 20M-1302 BLOCK 4

BLOCK 4

BLOCK 3

BLOCK 2

BLOCK 1

BLOCK 168

BLOCK 167

BLOCK 166

BLOCK 7

PIN 24929-6974 (LT)
(EMGO III CORPORATION)
AREA = 2.0003 Ha
(HDCSB OPTION TO PURCHASE)

REGISTERED PLAN 20M-1250

BLOCK 8 PIN 24929-6975 (LT) (TOWN OF OAKVILLE PARK)

BLOCK 9

BLOCK 10

BLOCK 6

BLOCK 5

BLOCK 18 (0.30 RESERVE)

LOT 17 | LOT 18 | LOT 19 | LOT 20 REGISTERED | LOT 21 PLAN | LOT 22 20M-1214 | LOT 23 | LOT 24

SIXTH LINE

BLOCK 16 (ARTERIAL)

POST ROAD (BY REGISTERED PLAN 20M-1250) PIN 24929-6988 (LT)

SETTLERS ROAD EAST (BY REGISTERED PLAN 20M-1250) PIN 24929-6986 (LT)

FAIRBANK AS IN WI219523

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 FOR BLOCK 7 WAS COMPLETED ON AUGUST 13, 2025.
3. THE SURVEY FOR BLOCK 11 WAS COMPLETED ON AUGUST 27, 2025.
4. THE SURVEY SHOWING REMOVED PILES WAS COMPLETED ON NOVEMBER 26, 2025.

DATE: DECEMBER 3, 2025.

JARID K. LEGAT, M.Sc.
ONTARIO LAND SURVEYOR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-96629

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR
In accordance with Regulation 1026, Section 29(3).

CUNNINGHAM McCONNELL LIMITED
ONTARIO LAND SURVEYORS
1200 SPEERS ROAD, UNIT 3B
OAKVILLE, ONTARIO L6L 2X4
PHONE (905) 845-3497
FAX (905) 845-3519
info.oak@cmlsurveyors.ca

205 MAIN STREET
MILTON, ONTARIO L9T 1N7
PHONE (905) 878-7810
FAX (905) 878-6672
milton.office@cmlsurveyors.ca

PLOT PAPER SIZE = 1219mm X 914mm

PLAN 43-25-2

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SITE & BLDG. STATS

ZONING By-Law 2009-189: I sp-103

OCCUPANCY: Catholic Elementary School
Kindergarten - Grade 8

LOT AREA (24,696 m²) 2.47 HECTARES
6.1 ACRES

GROSS FLOOR AREA

GROUND FLOOR	3,531 sq.m.	
SECOND FLOOR	2,537 sq.m.	
TOTAL SCHOOL GFA	6,068 sq.m	**(65,315 sq.ft.)**
CHILD CARE	671 sq.m.	
TOTAL BUILDING GFA	6,739 sq.m.	**(72,538 sq.ft.)**

LEASABLE FLOOR AREA
(Total area of all floors of a building within the outside walls, but does not include the area of walls, stair wells, elevators, escalators, ventilating shafts, attics, attached enclosed and covered loading docks and related enclosed corridors used for loading purposes, parking garage, rooms for garbage containment, rooms for bicycle parking and mechanical rooms. (Zoning By-law 2009-189)

LEASABLE FLOOR AREA

CHILD CARE 588 sq.m. **(6,329 sq.ft)**

PARKING STATISTICS	MAX	MIN	PROVIDED
2.6m x 5.2m min. size with 7.0m isles			
	64	32	64 *(32 class @ 2 = 64)*
2 per classroom max., 1 per classroom min. incl. Lib & Gym., *(32 class @ 2 = 64 max)*			
Portable Classrooms or Addition (2 per classroom max.) (1 per classroom min.) *(18 portables @ 2 = 36 max)*	36	18	36 *(18 class @ 2 = 36)*
Daycare (588 sq.m.) 1.0 per 40.0 m2 leasable floor area min. 1.0 per 32.0 m2 leasable floor area max. 1 queued parking MAX per 5 children capacity 88 children / 5 = 18 queued spaces max.	20	15	20
TOTAL PROVIDED =	120 max.	65 min	120 parking + 13 queued spaces max.
BARRIER FREE SPACES (5 spaces for 101 - 150 required) included in above total count	5		5 (2 TYPE A+ 3 TYPE B)
Bicycle Parking Spaces required at a rate of 7% of automobile parking spaces, as required by the Bylaw, incl. a min of 5 Bicycle Parking Spaces-Visitor	req'd 9		100
PARKING ISLE WIDTH		7.0 m	
BARRIER FREE PARKING TYPE A SIZE		3.65 m x 5.2 m	
BARRIER FREE PARKING TYPE B SIZE		2.7 m x 5.2 m	

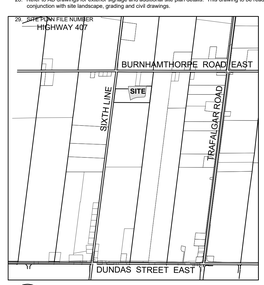
SITE STATISTICS per Zoning By-law 2009-189 amend. May 2022

LEGAL DESCRIPTION: xxx
ZONING: I INSTITUTIONAL SP: 103

	REG.	PROVIDED
MIN. FRONT YARD SETBACK	3.0 m	3.9 m
MAX. FRONT YARD SETBACK	6.0 m	
MIN. FLANKAGE (EXT. SIDE) YARD	3.0 m	6 m
MAX. FLANKAGE (EXT. SIDE) YARD	6.0 m	
INTERIOR SIDE YARD SETBACK	1.5 m MIN.	54.3 m
REAR YARD SETBACK	3.0 m MIN.	57.8 m
BUILDING HEIGHT	16.0 m MAX.	13.34 m
ACCESSORY BUILDINGS	Section 4.14	n/a
YARD ENCROACHMENTS	Section 4.21	n/a
FLOOR SPACE INDEX	n/a	n/a
MIN. LANDSCAPE STRIP INT. & REAR	3.0 m min.	4 m

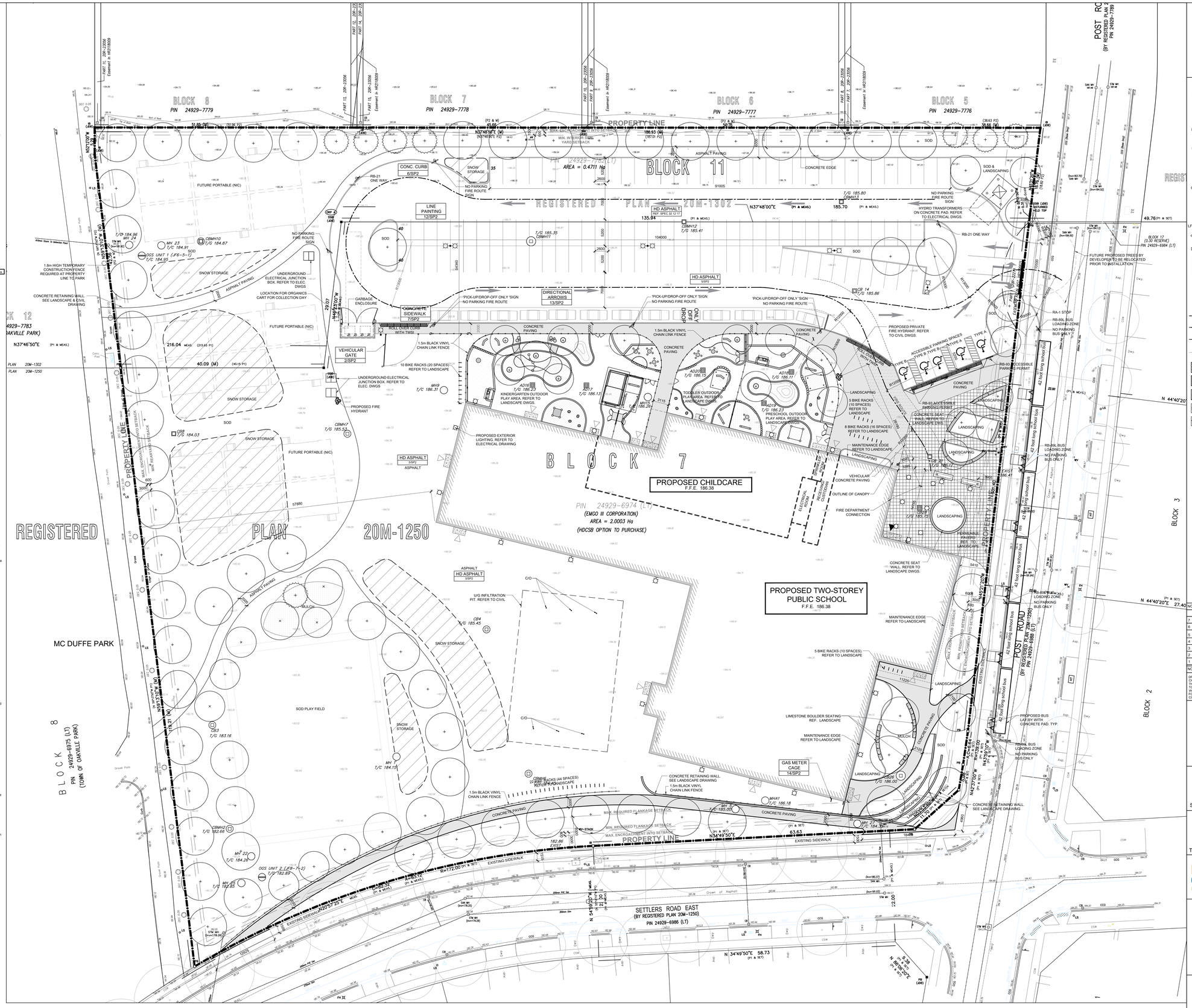
GENERAL NOTES

1. All exterior lighting will be directed onto the site and will not infringe on adjacent properties.
2. Grades will be met with 33% maximum slope at the property lines and within.
3. Parking spaces reserved for the physically handicapped must be identified by appropriate signage, installed at the applicant's expense, in accordance with the designated specifications of City Bylaws
4. There are no underground parking structures on this project.
5. The structural design of any retaining wall over 0.6 metre in height or any retaining wall located on a property line is to be shown on the Site Grading Plan for this project and is to be approved by a Structural Engineer.
6. Location of signs indicating fire routes shall be to the Town of Oakville Fire Department approval.
7. All roads and driveways which are to be designated as fire routes shall be so designated as per the Town's By-law, prior to occupancy of the building.
8. Fire route access shall be constructed of heavy duty asphalt surface material or reinforced concrete conforming to municipal standards and have a change of gradient not more than 1 in 12.5 over a minimum distance of 15 m.
9. Standard parking spaces shall be 2.6m x 5.2m min. hard surface area.
10. Accessible parking spaces shall be 3.65m x 5.2m min. hard surface area with access isles where indicated and painted decal and signage per Town's By-Law requirements.
11. Continuous concrete curbing typical throughout parking areas. All curbs to be 150mm/6" high barrier type poured concrete.
12. All surface drainage shall be self contained and collected and discharged at a location to be approved prior to issuance of a building permit. Existing drainage pattern to be maintained.
13. At the entrances to the site, the municipal curb and sidewalk will be continuous through the driveway. The driveway grade will be compatible with the existing sidewalk and a curb depression will be provided for each entrance, as part of this contract.
14. The tops of any curbs bordering the driveways within the municipal boulevard will be flush with the municipal sidewalk and road curb.
15. The portions of the driveways within the municipal boulevard will be paved as part of this contract.
16. Sedimentation control measures as per Town's standards are to be implemented during construction.
17. All underground service materials and installations to be in accordance with the latest standards and codes.
18. Road occupancy permit must be obtained by Contractor 48 hours prior to commencing any works within the municipal road allowance.
19. Pedestrian walkways are to be minimum width of 1.2m. The width of a walkway abutting parking spaces is 1.8m minimum.
20. All catchbasins manholes to have a minimum 0.3 sump and top as per municipal standards.
21. All storm sewer materials and construction methods must correspond to current municipal standards and specifications.
22. If building construction is interrupted and/or inactivity exceeds 30 days, stripped/bare areas will be stabilized by seeding.
23. All excess excavated material will be removed from site.
24. All above ground utilities are to be offset a minimum distance of 1500mm from all proposed driveways.
25. The contractor is required to supply all labour, materials and equipment for the installation of required signage, temporary or permanent, as illustrated in the site plan drawings and in accordance with the Ontario Traffic Manual and Town of Oakville.
26. Refer to AD Drawing 100 for weeping tile required at perimeter and interior of building at footing levels. AD 100 to be read in conjunction with Site Servicing Drawing and Landscape Drawings for additional weeping tile requirements.
27. Refer to Drawing SP2 for site plan details. This drawing to be read in conjunction with site landscape, grading and civil drawings.
28. Refer to AD drawings for exterior signage and additional site plan details. This drawing to be read in conjunction with site landscape, grading and civil drawings.
29. SHEET IN FILE NUMBER



2 / SP1 KEY PLAN
SCALE: NTS

1 / SP1 SITE PLAN
SCALE: 1 : 250



LEGEND

BB	BELL BOX
CR	CURB RAMP C/W TACTILE INDICATOR. REFER TO AD DWGS (1/SP2) AND SPECIFICATIONS
FC	FLUSH CURB
dia.	DIAMETER
F.F.E.	FINISHED FLOOR ELEVATION
SIB	STANDARD IRON BAR
SSIB	SHORT STANDARD IRON BAR
p	REGISTERED PLAN 63M-3427
PIV	POST INDICATOR VALVE
M	MEASURED
CONC.	CONCRETE
	MAIN SCHOOL ENTRANCE
	SECONDARY SCHOOL ENTRANCE
	EXTERIOR SIGNAGE. REFER TO SPECS & PMP DWG SPEC BINDER C
	PROPOSED LIGHT FIXTURE (REF ELEC. DWGS)
	PROPOSED LIGHT STANDARD (REF ELEC. DWGS)
CB	DENOTES DOUBLE CATCHBASIN
CB	DENOTES SINGLE CATCHBASIN
HMH	DENOTES HYDRO MANHOLE
MH	DENOTES MANHOLE
SAN MH	DENOTES SANITARY MANHOLE
STM MH	DENOTES STORM MANHOLE
LS	DENOTES LIGHT STANDARD
FH	DENOTES FIRE HYDRANT
WV	DENOTES WATER VALVE
	DENOTES BENCH MARK
	CONCRETE SHED. REFER TO SPECS. REFER TO DRAWING FOR TOTAL QUANTITY
	BLACK VINYL CHAINLINK FENCE (HEIGHT AS INDICATED)
	BOARD FENCE (HEIGHT AS INDICATED)
	BLACK DECORATIVE METAL FENCE (HEIGHT AS INDICATED)
	WEEPING TILE (NOT SHOWN. SEE GEN NOTE #26)
	HEAVY DUTY ASPHALT
	CONCRETE WALKWAY OR PAD
	LIMESTONE SCREENING WALKWAY OR PAD. REF TO LANDSCAPE
	TWSI - TACTILE WARNING SURFACE INDICATOR. REF SPECS.
	SNOW STORAGE AREAS

NO	REVISIONS	DATE
7	ISSUED FOR TENDER	26 11 04
6	ISSUED FOR BP RESUBMISSION	26 10 09
5	ISSUED FOR SPA RESUBMISSION	26 07 21
4	ISSUED FOR TENDER	26 06 08
3	ISSUED FOR SPA	26 02 17
2	RE-ISSUED FOR SPA PRE-CONSULT	25 07 30
1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND MUST REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE COMMENCING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADOUCEUR
LICENCE 6053

CERTIFICATE OF PRACTICE #4292

OAKVILLE #3
CATHOLIC
ELEMENTARY
SCHOOL

SP OAKVILLE, ON

LEGAL DESCRIPTION:
Block 07 Registered Plan 20M-1250
Block 11 Registered Plan 20M-1302
TOWN OF OAKVILLE, REGION OF HALTON

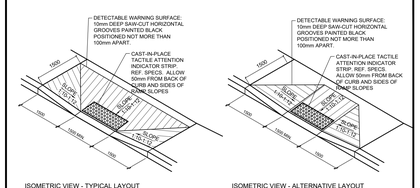
TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

SITE PLAN

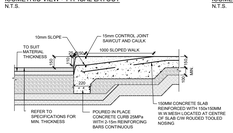
HOSSACK ARCHITECTURE
105 - 1935 IRONOAK WAY
OAKVILLE, ONTARIO L6H 3V8
(905) 815-0284 john@hossackarch.com

SCALE	1:250
PROJECT	24106
DATE	25 07 04
DRAWN	PL
DRAWING	SP1
CHECKED	PL
PRINT DATE	
REVIT FILE	



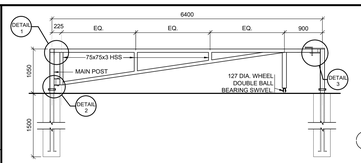
ISOMETRIC VIEW - TYPICAL LAYOUT
N.T.S.

ISOMETRIC VIEW - ALTERNATIVE LAYOUT
N.T.S.

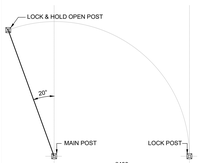


SECTION

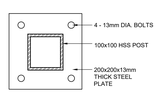
1 DEPRESSED CURB DETAIL (DC)
SP2 SCALE N.T.S



ELEVATION
SCALE 1:50



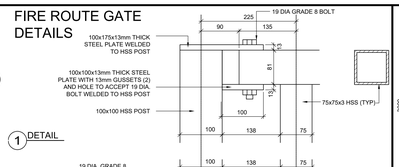
PLAN VIEW
SCALE 1:100

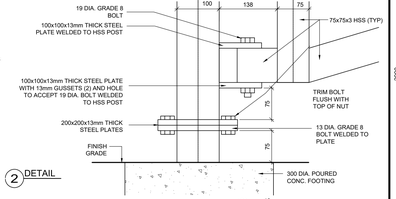


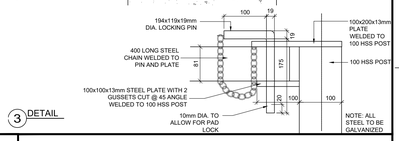
PLAN AT POST
SCALE 1:10

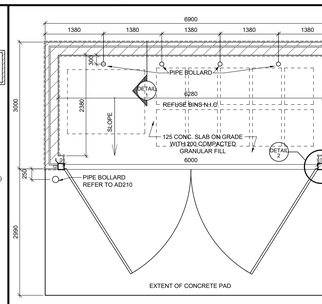
2 FIRE ROUTE GATE
SP2 SCALE AS NOTED

FIRE ROUTE GATE DETAILS

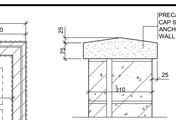




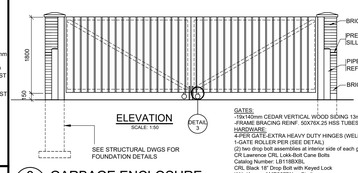




PLAN
SCALE 1:50



SECTION 1
SCALE 1:10

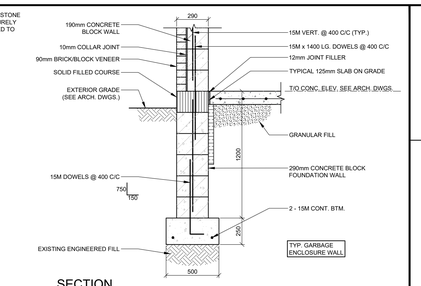


ELEVATION
SCALE 1:50

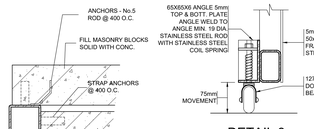
SEE STRUCTURAL DWGS FOR FOUNDATION DETAILS

GATES:
-150x140mm CEDAR VERTICAL WOOD SIDING 13mm GAP (MIN.) ON -FRAME BRACING REINF. 50X76X.25 HSS TUBES (WELDED).
HARDWARE:
4-PER GATE-EXTRA HEAVY DUTY HINGES (WELD)
1-GATE ROLLER PER (SEE DETAIL)
(2) two drop bolt assemblies at interior side of each garbage enclosure gate leaf
CR Lawrence CRL Lok&-Bolt Cane Bolts
Catalog Number: LB118BXBL
CRL Black 18" Drop Bolt with Keyed Lock
With Keeper AMR2078N or Similar
2 Per gate leaf at open and closed position
Core set and make good keepers into concrete slab.

3 GARBAGE ENCLOSURE
SP2 SCALE AS NOTED

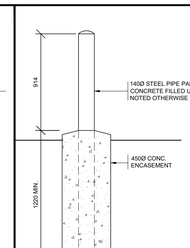


SECTION
SCALE 1:20

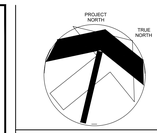


DETAIL 2
SCALE 1:10

DETAIL 3
SCALE 1:5

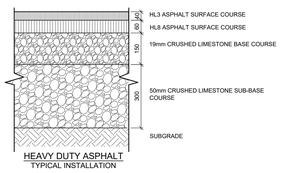


4 BOLLARD DETAIL
SP2 SCALE 1:20

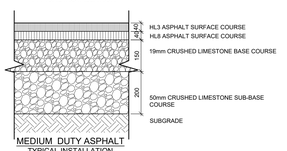


LEGEND

BB	BELL BOX
CR	CURB RAMP C/W TACTILE INDICATOR. REFER TO AD DWGS (1:10PS) AND SPECIFICATIONS
FC	FLUSH CURB
dia.	DIAMETER
F.F.E.	FINISHED FLOOR ELEVATION
SIB	STANDARD IRON BAR
SSIB	SHORT STANDARD IRON BAR
P	REGISTERED PLAN 65M-3427
PIV	POST INDICATOR VALVE
M	MEASURED
CONC.	CONCRETE
	MAIN SCHOOL ENTRANCE
	SECONDARY SCHOOL ENTRANCE
	EXTERIOR SIGNAGE. REFER TO SPECS & PMP DWG SPEC BINDER C
LH	PROPOSED LIGHT FIXTURE (REF ELEC. DWGS)
LS	PROPOSED LIGHT STANDARD (REF ELEC. DWGS)
CB	DENOTES DOUBLE CATCHBASIN
CB	DENOTES SINGLE CATCHBASIN
HMH	DENOTES HYDRO MANHOLE
MH	DENOTES MANHOLE
SAN MH	DENOTES SANITARY MANHOLE
STM MH	DENOTES STORM MANHOLE
LS	DENOTES LIGHT STANDARD
H	DENOTES FIRE HYDRANT
WV	DENOTES WATER VALVE
	DENOTES BENCH MARK
	CONCRETE SHED. REFER TO SPECS. REFER TO DRAWING FOR TOTAL QUANTITY
	BLACK VINYL CHAINLINK FENCE (HEIGHT AS INDICATED)
	BOARD FENCE (HEIGHT AS INDICATED)
	BLACK DECORATIVE METAL FENCE (HEIGHT AS INDICATED)
	WEEPING TILE (NOT SHOWN. SEE GEN NOTE #26)
	HEAVY DUTY ASPHALT
	CONCRETE. WALKWAY OR PAD
	LIMESTONE SCREENING WALKWAY OR PAD. REF TO LANDSCAPE
	TWSI - TACTILE WARNING SURFACE INDICATOR. REF SPECS.
	SNOW STORAGE AREAS



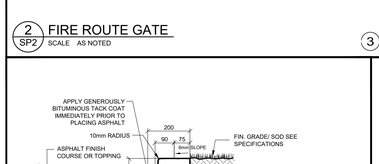
HEAVY DUTY ASPHALT
TYPICAL INSTALLATION



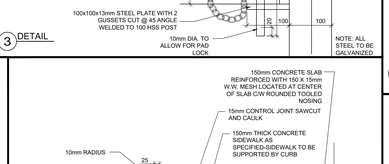
MEDIUM DUTY ASPHALT
TYPICAL INSTALLATION

NOTE:
REFER TO GEOTECHNICAL REPORT TO CONFIRM THAT ADDITIONAL DEPTH IS NOT REQUIRED AND THAT DEPTHS/MATERIALS OF ASPHALT AND SUBGRADE COMPONENTS MATCH THESE MINIMUM STANDARDS.

5 ASPHALT DETAIL
SP2 SCALE N.T.S

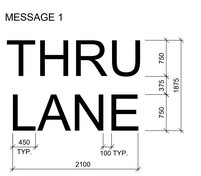


6 CONCRETE CURB AT SOD
SP2 SCALE 1:10



7 CONCRETE CURB AT SIDEWALK
SP2 SCALE 1:10

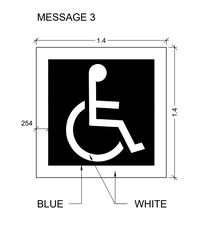
MESSAGE 1



MESSAGE 2



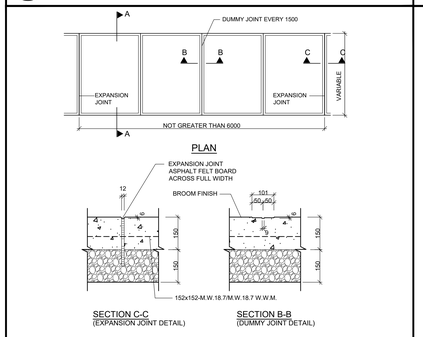
MESSAGE 3



TYPICAL LETTER DIMENSIONS:

FONT COLOUR:	YELLOW
FONT TYPE:	HELVETICA
THICKNESS:	75mm (3")
HEIGHT:	750mm(29 1/2")
WIDTH:	450mm(18")

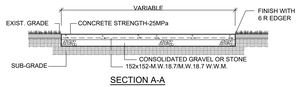
11 PAVEMENT PARKING MESSAGES
SP2 SCALE N.T.S



PLAN

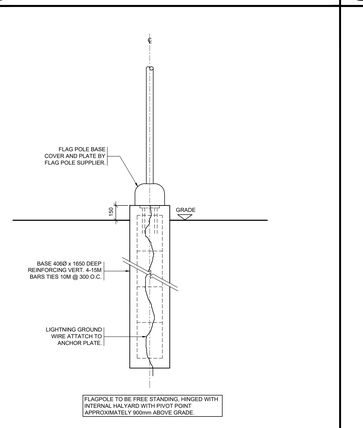
SECTION C-C
(EXPANSION JOINT DETAIL)

SECTION B-B
(DUMMY JOINT DETAIL)

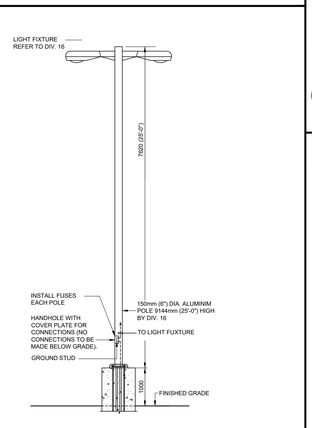


SECTION A-A

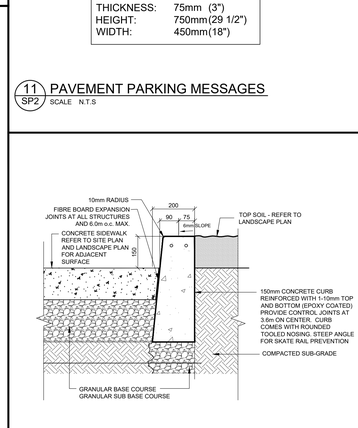
8 CONCRETE SIDEWALK DETAIL
SP2 SCALE N.T.S



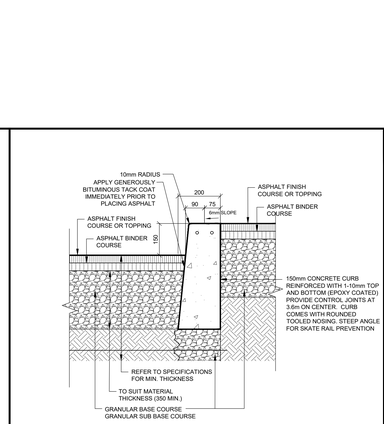
9 FLAG POLE DETAIL
SP2 SCALE N.T.S



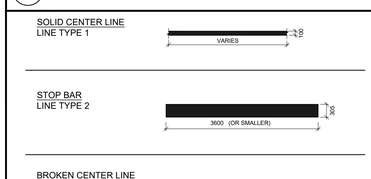
10 LIGHT STANDARD DETAIL
SP2 SCALE 1:50



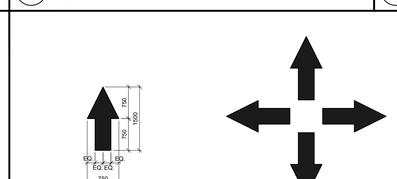
17 CONCRETE CURB AT LANDSCAPE
SP2 SCALE 1:10



18 CONCRETE CURB AT ASPHALT WALKWAY
SP2 SCALE 1:10

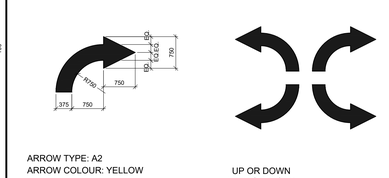


12 PAVEMENT MARKING LINES
SP2 SCALE 1:50



ARROW TYPE: A1
ARROW COLOUR: YELLOW

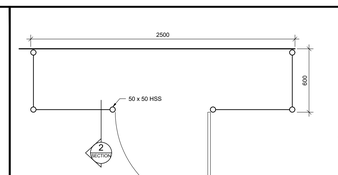
UP OR DOWN
LEFT OR RIGHT



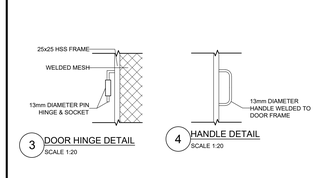
ARROW TYPE: A2
ARROW COLOUR: YELLOW

UP OR DOWN
LEFT OR RIGHT

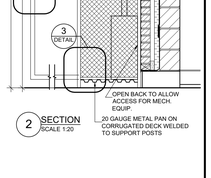
13 PAVEMENT DIRECTIONAL ARROWS
SP2 SCALE 1:50



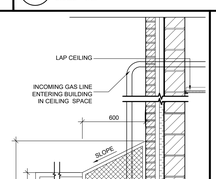
1 PLAN
SCALE 1:20



3 DOOR HINGE DETAIL
SCALE 1:20

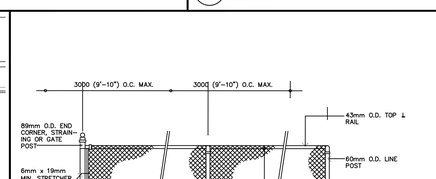


4 HANDLE DETAIL
SCALE 1:20



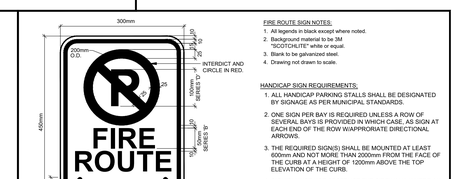
2 SECTION
SCALE 1:20

14 GAS METER CAGE
SP2 SCALE AS NOTED



NOTES:
1. Fabric to be black vinyl coated, 38mm woven mesh 1218mm high 3.5 (9 gauge) galvanized wire fastened top rail, barace rail, line post, stretcher bar and bottom rail with 3.5 galvanized wire 457mm (18") O.C..
2. Finish to be black gloss enamel by powder coart application. Prioer to powder coarting, all surface to be chemically cleaned and treated with Parker Bonderite and chlorothenesolvent or approved equals. Powder coart must be a polyester 2000 series applied in a thickness of 4-5 mils by electrostatic coat and oven cured to a smooth and even surface.
3. All fence posts and rails to be schedule "40" pipe.
4. No plastic fittings or components are to be used.
5. All dimensions in millimetres.

15 TYP. CHAIN LINK FENCE DETAILS
SP2 SCALE N.T.S



FIRE ROUTE SIGN NOTES:
1. All legends in black except where noted.
2. Background material to be 3M "SCOTCHLITE" white or equal.
3. Blank to be galvanized steel.
4. Drawing not drawn to scale.

HANDICAP SIGN REQUIREMENTS:
1. ALL HANDICAP PARKING STALLS SHALL BE DESIGNATED BY SIGNAGE AS PER MUNICIPAL STANDARDS.
2. ONE SIGN PER BAY IS REQUIRED UNLESS A ROW OF SEVERAL BAYS IS PROVIDED IN WHICH CASE, AS SIGN AT EACH END OF THE ROW W/APPRORIATE DIRECTIONAL ARROWS.
3. THE REQUIRED SIGN(S) SHALL BE MOUNTED AT LEAST 600mm AND NOT MORE THAN 2000mm FROM THE FACE OF THE CURB AT A HEIGHT OF 1200mm ABOVE THE TOP ELEVATION OF THE CURB.
4. SIGN(S) MUST NOT OBSTRUCT THE SIDEWALK. WHERE AN OBSTRUCTED BUILDING FACE IS NO MORE THAN 2.0m FROM THE FACE CURB AT THE HANDICAP BAY, THE REQUIRED SIGN(S) MAY BE MOUNTED ON THE BUILDING FACE.

THE METHOD OF ATTACHMENT TO SURFACES:
1. TO A 75mm GALVIN. STL POST M12mm GALVIN. HEX HEAD BOLTS AND BOLT WITH WASHERS BOTH SIDES.
2. TO MASONRY BUILDING FACE WITH TWO GALVIN. 50mm LONG 6mm DIA. HEX HEAD LAG BOLT, NUT AND WASHER(S) INTO MASONRY WALL ANCHORS.

HANDICAP SIGN
MOUNTING DETAIL

16 SITE SIGNAGE
SP2 SCALE N.T.S

NO	REVISIONS	DATE
3	ISSUED FOR TENDER	26 11 04
2	ISSUED FOR SITE PLAN APPLICATION	26 08 12
1	ISSUED FOR TENDER	26 06 08
NO	ISSUED	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADOUCEUR
LICENCE 6053
CERTIFICATE OF PRACTICE #4292

OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL
SP OAKVILLE, ON

LEGAL DESCRIPTION:
Block 07 Registered Plan 20M-1250
Block 11 Registered Plan 20M-1301
TOWN OF OAKVILLE, REGION OF HALTON

TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

SITE PLAN DETAILS

HOSSACK ARCHITECTURE
105 - 1939 IRONDALE WAY
OAKVILLE ON L6H 3V8
(905) 815-8284 admin@hossackarch.com

SCALE	AS NOTED
PROJECT	24106
DATE	21 07 29
DRAWN	SC
CHECKED	PL
DRAWING	SP2
PRINT DATE	
REVIT FILE	

CATCHBASIN SEDIMENT PROTECTION

CATCHBASIN SEDIMENT PROTECTION

LIGHT DUTY SILTY FENCE BARRIRE AS PER OPSD 219.110
ADJUST LOCATION AS REQUIRED DURING CONSTRUCTION

LIGHT DUTY SILTY FENCE BARRIRE AS PER OPSD 219.110
ADJUST LOCATION AS REQUIRED DURING CONSTRUCTION

610mm Storm to Detention Pond

450mm THICK- 8.5m x 20.0m
ENTRANCE MUD MAT PLACED
ON 270R-GEOTEXTILE
FIRST 10m- 50mm CLEAR STONE
LAST 10m- 150 CLEAR STONE

POST ROAD

SETTLERS ROAD EAST

CATCHBASIN SEDIMENT PROTECTION

CATCHBASIN SEDIMENT PROTECTION

CATCHBASIN SEDIMENT PROTECTION

LIGHT DUTY SILTY FENCE BARRIRE AS PER OPSD 219.110
ADJUST LOCATION AS REQUIRED DURING CONSTRUCTION

EX SAN MH TO BE REMAINED.
PROTECT DURING CONSTRUCTION.

EX STM MH TO BE REMAINED.
PROTECT DURING CONSTRUCTION.

ROCK FLOW CHECK DAM PER OPSD 219.211

EROSION AND SEDIMENT CONTROL NOTES

1. DURING THE SERVICING CONSTRUCTION, LIMIT OPEN TRENCH LENGTHS TO MINIMIZE EROSION POTENTIAL.
2. DURING WORK STOPPAGES OR INCLEMENT WEATHER, PLUG ENDS OF OPEN SEWERS TO PREVENT DOWNSTREAM SEDIMENTATION.
3. PROVIDE CATCHBASIN SEDIMENT PROTECTION ON ALL CATCHBASIN AND CATCHBASIN MANHOLES FOR THE DURATION OF CONSTRUCTION.
4. ENSURE SILT LADEN WATER FROM TRUCK WASH AREAS ARE DIRECTED TO AREAS PROTECTED BY A FILTER RING AND AT LEAST 15 METERS FROM A WATERCOURSE.
5. ENSURE CONTRACTORS AND ALL TO FOLLOW THE CLEAN EQUIPMENT PROTOCOL FOR INDUSTRY, REFER TO LINK BELOW FOR ADDITIONAL DETAILS. HTTPS://WWW.ONTARIONVASIVEPLANTS.CA/WP-CONTENT/UPLOADS/2016/07/CLEAN-EQUIPMENT-PROTOCOL_JUNE2016_D3_WEB-1.PDF
6. ALL SILT LADEN WATER DURING DEWATERING OF TRENCHES TO BE DIRECTED TO AN AREA PROTECTED BY A FILTER RING OR TO A GEOTEXTILE FILTER BAG. FILTRATION TO BE A MINIMUM OF 15 METERS FROM A WATERCOURSE.
7. PROVIDE DUST CONTROL DURING DRY PERIODS AS DIRECTED BY THE SITE ENGINEER OR CONSERVATION OR MUNICIPAL.
8. SWEEP EXTERNAL STREETS AS DIRECTED BY THE ENGINEER, CONSERVATION OR MUNICIPAL.
9. FOLLOWING BASE COURSE ASPHALT, CATCHBASINS TO BE REWRAPPED WITH GEOTEXTILE.
10. PERIODIC STREET CLEANING AND CATCHBASIN CLEANOUT TO BE PERFORMED AS REQUIRED.
11. ADOPT A MULTI-BARRIER APPROACH TO PROVIDE EROSION AND SEDIMENT CONTROL THROUGH EROSION CONTROLS FIRST.
12. RETAIN EXISTING VEGETATION AND STABILIZE EXPOSED SOILS WITH VEGETATION WHERE POSSIBLE.LIMIT THE DURATION OF SOIL EXPOSURE AND PHASE CONSTRUCTION WHERE POSSIBLE.
13. LIMIT THE DURATION OF SOIL EXPOSURE AND PHASE CONSTRUCTION WHERE POSSIBLE.
14. LIMIT THE SIZE OF DISTURBED AREAS BY MINIMIZING NONESSENTIAL CLEARING AND GRADING.
15. MINIMIZE SLOPE LENGTH AND GRADIENT OF DISTURBED AREAS.
16. MAINTAIN OVERLAND SHEET FLOW AND AVOID CONCENTRATED FLOWS.
17. STORE/STOCKPILE SOIL AWAY (E.G. GREATER THAN 15 METERS) FROM WATERCOURSES, DRAINAGE FEATURES AND TOP OF STEEP SLOPES.
18. ENSURE CONTRACTORS AND ALL INVOLVED IN THE ESC PRACTICES ARE TRAINED IN ECS PLAN, IMPLEMENTATION, INSPECTIONS, MAINTENANCE, AND REPAIRS.
19. ADJUST ECS PLAN AT CONSTRUCTION SITE TO ADAPT TO SITE FEATURES.
20. ALL STOCKPILES ARE TO HAVE SILT CONTROL FENCE INSTALLED AND MAINTAINED SURROUNDING THEM.
21. PLASTIC MESH SIZES FOR SILT FENCE OR EROSION CONTROL BLANKETS MUST BE EITHER <5mm (1/4") OR >50mm (2") TO MINIMIZE THE RISK OF TRAPPING WILDLIFE. ALTERNATIVELY, WILDLIFE-FRIENDLY PRODUCTS, SUCH AS LOOSE OR OPEN- WEAVE, NATURAL FIBRE TEXTILE MESHES (JUTE, COIR, WOOD EXCELSIOR, ETC.) ARE AVAILABLE WHICH MAY ALSO BE USED TO MINIMIZE THIS RISK.

NOTES:

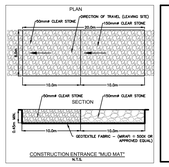
1. CULVERT SHALL BE CONSTRUCTED PRIOR TO ALL OTHER CONSTRUCTION WORKS ON-SITE
2. ALL DISTURBED AREAS TO BE RESTORED AND HYDROSEEDED
3. PRIOR TO USE, SOIL OF STOCKPILES HIGHER THAN 1.3m HEIGHT TO BE AMENDED WITH ORGANIC MATTER (COMPOST, LEAF MULCH, OR SIMILAR), AND MYCORRHIZAL FUNGI INOCULANT

EROSION AND SEDIMENT CONTROL SEQUENCING

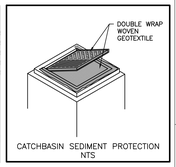
1. INSTALL SINGLE ROLL OF SILT FENCE AROUND THE PERIMETER OF THE SITE AS SHOWN
2. INSTALL CONSTRUCTION ENTRANCE COMPLETE WITH MUD MAT.
3. STRIP AND PREGRADE THE SITE AND ENSURE CONVEYANCE OF OVERLAND FLOWS THROUGH THE DIVERSION SWALES TO THE ROAD SIDE DITCH.
4. STABILIZE ALL LANDSCAPED AREAS WITH TOPSOIL, SEED AND OR SOD AND INSTALL ALL LANDSCAPE COMPONENTS. REFER TO LANDSCAPE PLANS
5. REMOVE SILT FENCE AFTER CONSULTATION WITH THE PROJECT ENGINEER AND TOWN OF OAKVILLE DEVELOPMENT ENGINEERING.
6. SOIL SHOULD NOT BE STOCKPILED FOR OVER SIX (6) MONTHS AT A TIME TO PREVENT SOIL STERILIZATION. IF LONGER STOCKPILING DURATIONS ARE NECESSITATED, SOIL SHOULD BE SEEDED WITH A CROP OF ANNUAL RYE APPLICATION.
7. SOIL STOCKPILES SHOULD BE SHAPED TO PREVENT EROSION AND GROWTH OF INVASIVE PLANT SPECIES/WEEDS. ALTERNATIVELY, STOCKPILES CAN BE STABILIZED BY SEEDING WITH NON-INVASIVE NATIVE GROUNDCOVER VEGETATION. SOIL STOCKPILES ARE NOT TO EXCEED 1.3m HEIGHT TO AVOID SOIL STERILIZATION IMPACTS.

EROSION AND SEDIMENT CONTROL NOTE:

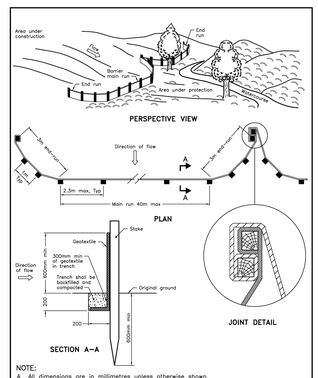
1. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED ACCORDING TO THE APPROVED PLANS PRIOR TO COMMENCEMENT OF ANY EARTH MOVING WORK ON THE SITE AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH THE INTENDED GROUND COVER.
2. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED BY THE BUILDER/DEVELOPER:
   - WEEKLY
   - BEFORE AND AFTER ANY PREDICTED RAINFALL EVENT
   - FOLLOWING AN UNPREDICTED RAINFALL EVENT
   - DAILY, DURING EXTENDED DURATION RAINFALL EVENTS
   - AFTER SIGNIFICANT SNOW MELT EVENTS
3. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES. DAMAGED OR CLOGGED DEVICES SHALL BE REPAIRED WITHIN 48 HOURS.
4. WHERE A SITE REQUIRES DEWATERING AND WHERE THE EXPELLED WATER CAN BE FREELY RELEASED TO A SUITABLE RECEIVER, THE EXPELLED WATER SHALL BE TREATED TO CAPTURE SUSPENDED PARTICLES GREATER THAN 40 MICRON IN SIZE. THE CAPTURED SEDIMENT SHALL BE DISPOSED OF PROPERLY PER MOECC GUIDELINES. THE CLEAN EXPELLED WATER SHALL FREELY RELEASE TO A SUITABLE RECEIVER THAT DOES NOT CREATE DOWNSTREAM ISSUES INCLUDING BUT NOT LIMITED TO EROSION, FLOODING – NUISANCE OR OTHERWISE, INTERFERENCE ISSUES, ETC.
5. EXISTING STORM SEWER AND DRAINAGE DITCHES ADJACENT TO THE WORKS SHALL BE PROTECTED AT ALL TIMES FROM THE ENTRY OF SEDIMENT/SILT THAT MAY MIGRATE FROM THE SITE. FOR STORM SEWERS: ALL INLETS (REAR LOT CATCHBASINS, ROAD CATCHBASINS, PIPE INLETS, ETC.) MUST BE SECURED/FITTED WITH SILTATION CONTROL MEASURES. FOR DRAINAGE DITCHES: THE INSTALLATION OF ROCK CHECK DAMS, SILTATION FENCE, SEDIMENT CONTAINMENT DEVICES MUST BE INSTALLED TO TRAP AND CONTAIN SEDIMENT. THESE SILTATION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED PER ITEMS B AND C ABOVE.
6. IN THE EVENT OF A SPILL (RELEASE OF DELETERIOUS MATERIAL) ON OR EMANATING FROM THE SITE, THE OWNER OR OWNERS AGENT SHALL IMMEDIATELY NOTIFY THE MOECC AND FOLLOW ANY PRESCRIBED CLEAN UP PROCEDURE. THE OWNER OF OWNERS AGENT WILL ADDITIONALLY IMMEDIATELY NOTIFY THE TOWN.



CONSTRUCTION ENTRANCE "MUD MAT"
N.T.S.

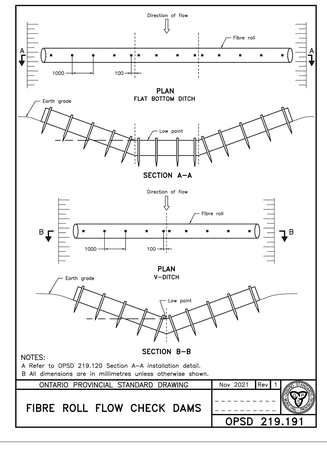


CATCHBASIN SEDIMENT PROTECTION
NTS



NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2021	Rev 3
LIGHT-DUTY SILT FENCE BARRIER		OPSD 219.110



NOTES:
A Refer to OPSD 219.120 Section A-A installation detail.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2021	Rev 1
FIBRE ROLL FLOW CHECK DAMS		OPSD 219.191

PROJECT NORTH / TRUE NORTH

KEYMAP: N.T.S



LEGEND:

■	DENOTES SURVEY MONUMENT FOUND
□	SURVEY MONUMENT SET
SIB	STANDARD IRON BAR
SSIB	SHORT STANDARD IRON BAR
IB	IRON BAR
PB	PLASTIC BAR
W	NO IDENTIFICATION
MCI	CUNNINGHAM McCONNELL LIMITED
PIN	PROPERTY IDENTIFIER NUMBER
MEAS	MEASURED
JDB	J.D. BARNES LTD. O.L.S.
P1	REGISTERED PLAN 20M-1250
P2	REGISTERED PLAN 20M-1302
FH	DENOTES FIRE HYDRANT
GV	DENOTES GAS VALVE
HT	DENOTES HYDRO TRANSFORMER
LS	DENOTES LIGHT STANDARD
MH	DENOTES MANHOLE
—	DENOTES STREET SIGN
SAN	DENOTES SANITARY
STM	DENOTES STORM
TOB	DENOTES TOP OF BANK
UP	DENOTES UTILITY POLE
V	DENOTES VAULT
WV	DENOTES WATER VALVE
X	FENCE LINE
G	EX UNDERGROUND GAS
STM	EX UNDERGROUND STORM SEWER
SAN	EX SANITARY SEWER
W	EX WATER SERVICE
	MUD MAT
	CATCHBASIN SEDIMENT PROTECTION
	LIGHT DUTY SILT FENCE
	PROPERTY LINE

BENCHMARK:

ALL ELEVATIONS SHOWN HERE ON ARE GEODETIC AND ARE RELATED TO THE TOWN OF OAKVILLE BENCH MARK NO. 276 HAVING AN ELEVATION OF 175.722m (CGVD 1928 / 1978 ADJUSTMENT)

NO	REVISIONS	DATE mm/dd/yy
2	ISSUED FOR COORDINATION	12/17/2025
3	ISSUED FOR SPA	01/13/2026
4	ISSUED FOR SPA	02/11/2026
5	ISSUED FOR CLASS A COSTING	02/27/2026
6	ISSUED FOR COORDINATION	03/13/2026
7	ISSUED FOR COORDINATION	04/01/2026
8	ISSUED FOR TENDER	06/08/2026
9	ISSUED FOR SPA	07/21/2026
10	ISSUED FOR SPA	09/18/2026
11	ISSUED FOR SPA	09/23/2026
12	ISSUED FOR SPA	10/27/2026
13	ISSUED FOR TENDER	11/04/2026
NO	ISSUED	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE COMMENCING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

MGM CONSULTING INC
Consulting Engineering & Project Management
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Email: mgm@mgm.on.ca
www.mgm.on.ca

NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

3500 POST ROAD
NORTH OAKVILLE, ON

CITY FILE#: TBA

LEGAL DESCRIPTION:

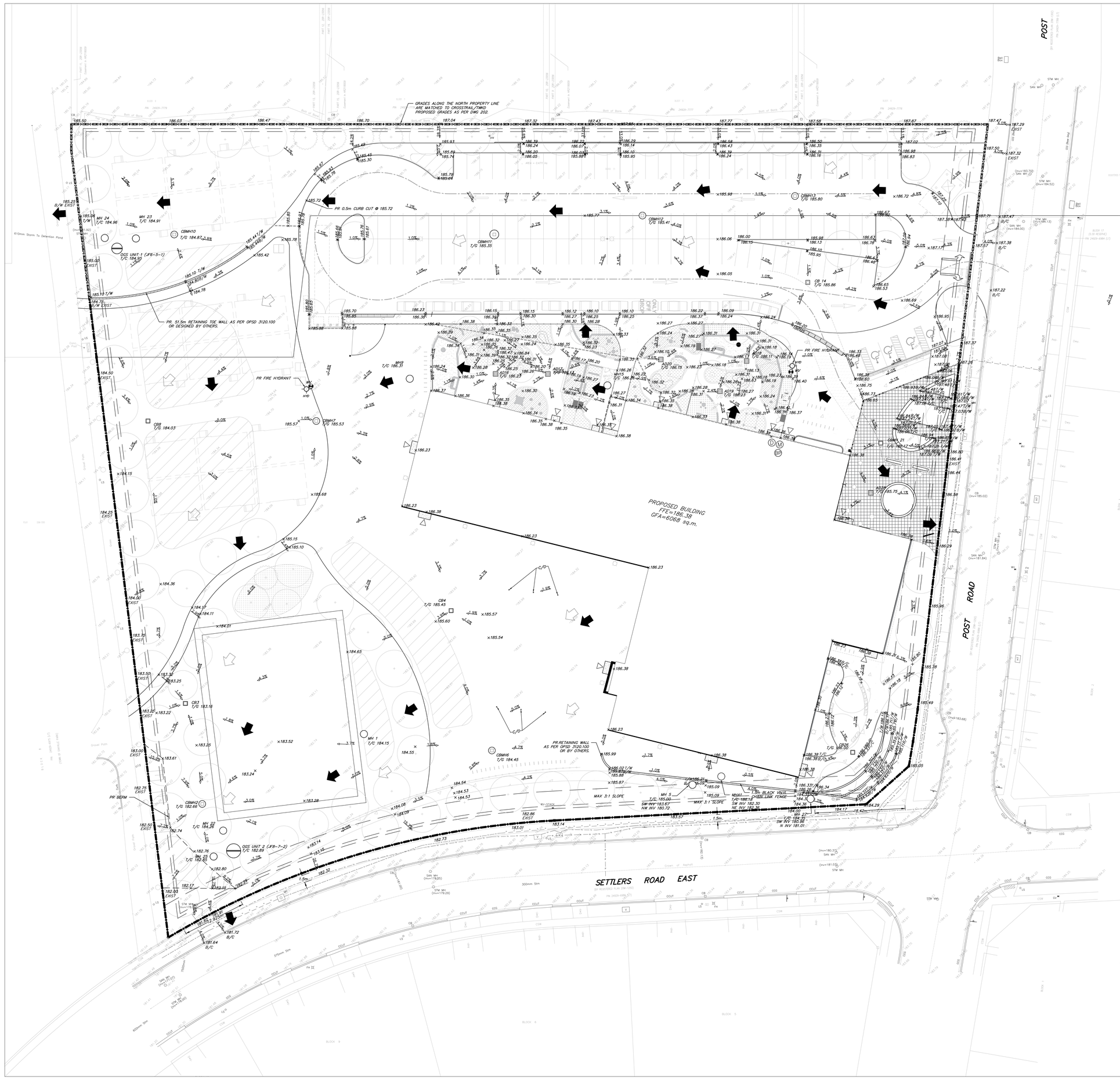
BLOCK 7, REGISTERED PLAN 20M-1250 AND BLOCK 11, REGISTERED PLAN 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

LICENSED PROFESSIONAL ENGINEER
K.T.MCCONNELL-LYNAGE
100508002
NOV. 04, 2026
PROVINCE OF ONTARIO

HALTON CATHOLIC DISTRICT SCHOOL BOARD

CLIENT:
HOSSACK & ASSOCIATES ARCHITECTS
105-1030 IRONOAK WAY
OAKVILLE, ONTARIO L6H 3V1
Tel (905) 607-8284 Fax (905) 607-8290

SCALE	1:250
PROJECT	2025-047
DATE	NOV 2026
DRAWN	AA
CHECKED	KL
DRAWING	REMOVALS, EROSION & SEDIMENT CONTROL PLAN
	CV-1
PRINT DATE	
REVIT FILE	N/A



CONSTRUCTION NOTES AND SPECIFICATIONS:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
   1.1. CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS. REPORT ALL DISCREPANCIES TO SITE SERVICING PRIOR TO PROCEEDING.
   1.2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
   1.3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THE PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
   1.4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
2. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
3. ALL UNDERGROUND SERVICES ARE TO BE CONSTRUCTED IN FULL COMPLIANCE WITH ONTARIO PROVINCIAL BUILDING CODE (PART 7, PLUMBING) AND THE REQUIREMENTS OF THE TOWN OF CAMBRIDGE AND THE REGIONAL MUNICIPALITY OF WATERLOO; WHICH CODES AND REGULATIONS SHALL SUPERSEDE ALL OTHERS.
4. CONTRACTOR IS RESPONSIBLE FOR CONTACTING CONSULTING ENGINEERS 48 HOURS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. CONSULTING ENGINEERS TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED TO CERTIFICATION OF UNDERGROUND SERVICES AS REQUIRED BY ONTARIO REGULATION 453/07, SCHEDULE 1, SECTION 1.2.2. GENERAL REVIEW. FAILURE TO NOTIFY CONSULTING ENGINEERS WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTOR'S EXPENSE.
5. SITE SERVICING CONTRACTOR TO TERMINATE ALL SERVICES 1.0 METRES FROM FOUNDATION WALL.
6. 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 LOCAL MUNICIPALITY AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
7. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
8. ALL REMOVALS SHALL BE IN ACCORDANCE WITH OPSS 510. ALL REMOVED MATERIALS SHALL BE DISPOSED OFF SITE.
9. ACCESS TO PROPERTY SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
10. ALL GRADING WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH OPSS 206.
11. THE CONTRACTOR TO NOTIFY MGM CONSULTING INC. PRIOR TO SAWCUTTING EXISTING ASPHALT FOR CONFIRMATION OF POSITIVE DRAINAGE.
12. ALL GRANULAR MATERIAL SHALL CONFORM TO OPSS 1010, AND BE INSTALLED IN ACCORDANCE WITH OPSS 314.
13. ALL ASPHALT MATERIALS SHALL BE IN ACCORDANCE WITH OPSS 1101 AND BE INSTALLED IN ACCORDANCE WITH OPSS 310.
14. CONCRETE SHALL BE IN ACCORDANCE WITH OPSS 1350 AND HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPA AFTER 28 DAYS.
15. SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH OPSS 410. TRENCH BACKFILL TO BE APPROVED NATIVE MATERIAL.
16. CATCHBASIN AND MANHOLE ADJACENT SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 408.
17. ALL DISTURBED GRASSED AREAS ARE TO BE RESTORED WITH 150MM DEPTH TOPSOIL AND SOD.
18. TOPSOIL SHALL BE IN ACCORDANCE WITH OPSS 802 AND SOD IN ACCORDANCE WITH OPSS 803.

SEWERS

1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS B02.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRAN. 300MM LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
2. STORM SEWERS, 150MM AND SMALLER, SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
3. STORM SEWERS 200MM TO 375MM SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR35 ASTM-D3034 OR RIBBED SEWER PIPE CSA B182.4-M90 ASTM-F794 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
4. FACTORY FABRICATED WYES SHALL BE USED FOR ALL SERVICE CONNECTIONS.
5. MANHOLES AND MANHOLE CATCHBASINS TO BE 1200MM DIAMETER PRECAST WITH ALUMINUM STEPS AT 300MM CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED.
6. MANHOLES TO BE BENCHED PER OPSD 701.021
7. CATCHBASINS TO BE 600MM SQUARE PRECAST AS PER OPSD 705.010.
8. DITCH INLET CATCHBASINS TO BE 600MM SQUARE AS PER OPSD 705.030 WITH 3:1 SLOPE ON GRATES UNLESS OTHERWISE SPECIFIED.
9. CATCHBASIN MANHOLES AND CATCHBASINS TO HAVE MINIMUM 600MM DEEP SUMP. WHEN THE STRUCTURE INCLUDES THE INSTALLATION OF A SNOUT (OR APPROVED EQUIVALENT) THE SUMP DEPTH TO BE MIN 2.5 TIMES THE OUTLET PIPE DIAMETER SIZE.
10. MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
11. STORM MANHOLE LIDS TO BE PER OPSD 401.010 – TYPE OPSD 400.100. DITCH INLET CATCHBASIN GRATES TO BE PER OPSD 403.010.
12. STORM SEWERS AND SERVICES TO HAVE MINIMUM 1.2M COVER TO TOP OF PIPE, WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED SEWER PIPE IN ACCORDANCE WITH APPLICABLE INDICATED IN DRAWING DETAILS. INSTALLATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI=1.76 (R10) INSULTING FACTOR (TYPICALLY 50=55MM). INSULATION BOARD WIDTH SHALL BE 1.8M FOR UP TO 200MM NOMINAL PIPE DIAMETER, 2.4M FOR 201MM~800MM DIAMETER AND 3.0M FOR 801MM~1440MM. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL COVER). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140KPA (200PSI) AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME. ACCEPTABLE PRODUCTS ARE DOW STYROFOAM~SM OR ~HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD~M28 OR OTHER ENGINEER~APPROVED EQUIVALENT.

NOTE:
CONTRACTOR TO CONTACT MGM CONSULTING INC. IMMEDIATELY SHOULD THERE BE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND PROPOSED GRADING AND/OR SERVICING DESIGN, OR CONFLICTS IN CONSTRUCTING THE WORK AS PER THE INTENT OF THE APPROVED DESIGN PRIOR TO CONSTRUCTION.

NOTE:
1. ALL WORK TO CONFORM TO THE LATEST MUNICIPAL STANDARDS AND SPECIFICATIONS AS WELL AS THE LATEST ADOPTED ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
2. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER TO SATISFACTION OF THE MUNICIPALITY AND MGM CONSULTING INC.
3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES AND UTILITIES PRIOR TO AND DURING CONSTRUCTION
4. CONTRACTOR TO LOCATE AND CONFIRM ALL EXISTING UTILITIES AND SERVICE INFORMATION PRIOR CONSTRUCTION
5. CONTRACTOR TO ENSURE ADEQUATE CLEARANCE FROM ALL EXISTING SERVICES AND UTILITIES
6. CONTRACTOR TO CONFIRM ALL EXISTING INVERTS PRIOR TO INTERNAL SERVICING.
7. CONTRACTOR TO CONFIRM THE PAVEMENT STRUCTURE THICKNESS' BASED ON THE GEOTECHNICAL REPORT.
8. CONTRACTOR TO REVIEW GEOTECHNICAL REPORT TO CONFIRM DEWATERING REQUIREMENTS.
9. CONTRACTOR TO INSTALL MANHOLE AND CATCHBASIN GRATES TO ENSURE NO CONFLICT WITH PROPOSED CURBS.

RECOMMENDED PAVEMENT DESIGN (AS PER GEOTECHNICAL INVESTIGATION PREPARED BY FORWARD ENGINEERING & ASSOCIATEDS INC. DATED JANUARY 27, 2026):

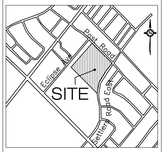
COURSE	HEAVY DUTY	MEDIUM DUTY
Asphalt Concrete HL3	40 mm	40 mm
Asphalt Concrete HL8	60 mm	40 mm
19 mm Crushed Limestone	150 mm	150 mm
Granular B Sub-base	300 mm	200 mm

NOTE: Contractor to confirm pavement structure thickness' based on the Geotechnical Report.
Driveway entrance shall be according to City of Holton standards

NOTE:
ESTABLISHED GRADE (EG) = 184.64m GEODETIC, BASED ON THE CENTRE POINT ELEVATIONS OF THE FRONT AND FLANKAGE LOT LINES.

PROJECT NORTH / TRUE NORTH

KEYMAP: N.T.S



LEGEND:

- DENOTES SURVEY MONUMENT FOUND
- SSM = STANDARD IRON BAR
- SIB = STANDARD IRON BAR
- SBM = SHOT BAR
- PB = PLASTIC BAR
- NI = NO IDENTIFICATION
- CMI = CUMMINGHAM MCCONNELL LIMITED
- PIN = PROPERTY IDENTIFIER NUMBER
- M.E.&O. = MEASURED
- J.D. = J.D. BARNES LTD. O.L.S.
- P1 = REGISTERED PLAN 20M~1250
- P2 = REGISTERED PLAN 20M~1302
- FH = DENOTES FIRE HYDRANT
- GV = DENOTES GAS VALVE
- HT = DENOTES HYDRO TRANSFORMER
- LS = DENOTES LIGHT STANDARD
- MH = DENOTES MANHOLE
- SIGN = DENOTES STREET SIGN
- SAN = DENOTES SANITARY
- STM = DENOTES STORM
- TOB = DENOTES TOP OF BANK
- UP = DENOTES UTILITY POLE
- V = DENOTES VAULT
- WV = DENOTES WATER VALVE
- X — FENCE LINE
- EX UNDERGROUND GAS
- EX UNDERGROUND STORM SEWER
- EX SANITARY SEWER
- EX WATER SERVICE
- MH/C T/C - PROPOSED STORM MANHOLE
- CBMH/C T/C - PROPOSED CATCHBASIN MANHOLE
- CB/C T/C - PROPOSED CATCHBASIN
- MHSAT T/C - PROPOSED SANITARY MANHOLE
- PROPOSED FIRE HYDRANT
- 186.38 - PROPOSED ELEVATION
- 186.37 EXIST - MATCH TO EXISTING ELEVATION
- 1.0% - PROPOSED SLOPE
- PROPOSED OVERLAND FLOW ROUTE
- EXISTING OVERLAND FLOW ROUTE
- PROPERTY LINE
- CATCHMENTS AREA BOUNDARY

BENCHMARK:

ALL ELEVATIONS SHOWN HERE ON ARE GEODETIC AND ARE RELATED TO THE TOWN OF OAKVILLE BENCH MARK NO. 276 HAVING AN ELEVATION OF 175.722m (CGVD 1928 / 1978 ADJUSTMENT)

NO	REVISIONS	DATE
2	ISSUED FOR COORDINATION	12/17/2025
3	ISSUED FOR SPA	01/13/2026
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NO	ISSUED	DATE

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Fax: (905) 875-1339
Email: mgm@mgm-on.ca
www.mgm-on.ca

NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

3500 POST ROAD
CITY FILE# : TBA — NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

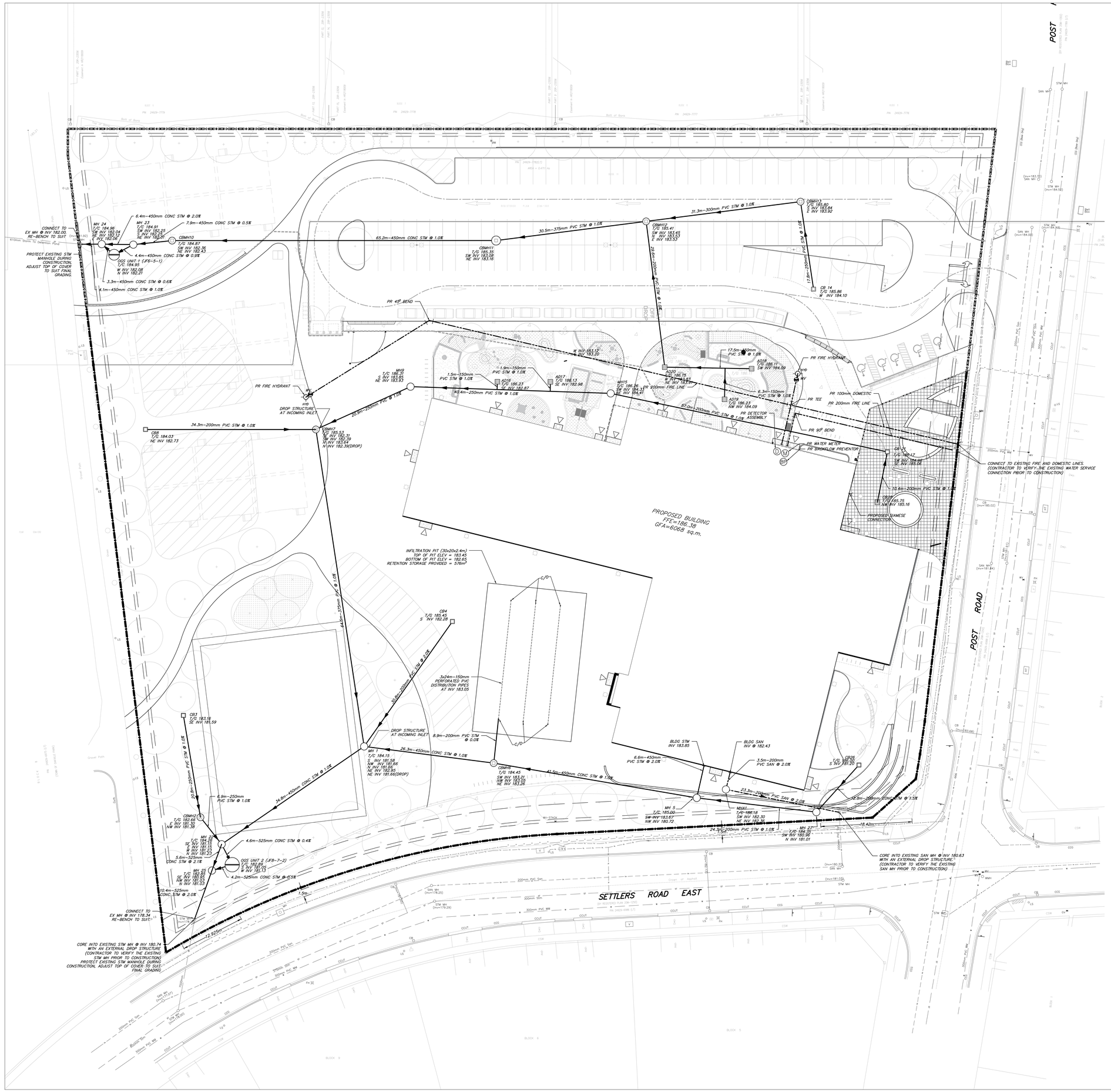
BLOCK 7, REGISTERED PLAN 20M-1250 AND BLOCK 11, REGISTERED PLAN 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

LICENSED PROFESSIONAL ENGINEER
K.T. LAMBELLI-WARE
100538052
NOV. 04, 2026
PROVINCE OF ONTARIO

HALTON CATHOLIC DISTRICT SCHOOL BOARD

CLIENT: HOSSACK & ASSOCIATES ARCHITECTS
105-1500 IRONOAK WAY, OAKVILLE, ONTARIO L6H 3V8
Tel (905) 815-8044 Fax (905) 657-8290

SCALE 1:250	PROJECT 2025-047
DATE NOV 2026	
DRAWN AA	DRAWING SITE GRADING PLAN CV-2
CHECKED KL	
PRINT DATE	
REVIT FILE	N/A



NOTE:
CONTRACTOR TO CONTACT MGM CONSULTING INC. IMMEDIATELY SHOULD THERE BE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND PROPOSED GRADING AND/OR SERVICING DESIGN, OR CONFLICTS IN CONSTRUCTING THE WORK AS PER THE INTENT OF THE APPROVED DESIGN PRIOR TO CONSTRUCTION.

NOTE:
1. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER TO SATISFACTION OF THE MUNICIPALITY AND MGM CONSULTING INC.
2. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES AND UTILITIES PRIOR TO AND DURING CONSTRUCTION
3. CONTRACTOR TO LOCATE AND CONFIRM ALL EXISTING UTILITIES AND SERVICE INFORMATION PRIOR CONSTRUCTION
4. CONTRACTOR TO ENSURE ADEQUATE CLEARANCE FROM ALL EXISTING SERVICES AND UTILITIES
5. CONTRACTOR TO CONFIRM ALL EXISTING INVERTS PRIOR TO INTERNAL SERVICING.
6. NO CONSTRUCTION IS TAKING PLACE ON ADJACENT PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE RESPECTIVE LAND OWNER
7. PRIOR TO THE COMMENCEMENT OF ANY WORK ON THE SITE, SILT FENCE IS TO BE INSTALLED ON THE PERIMETER OF THE PROPERTY AND AT LOCATIONS AS DETERMINED BY APPROVED DWG DRAWINGS, AND THE SILT FENCE SHALL REMAIN IN PLACE UNTIL SUCH TIME AS OTHERWISE DIRECTED BY DIRECTOR, DEVELOPMENT ENGINEERING
8. PARKING STALL DELINEATION SHALL BE WITH 100mm WIDE WHITE OR YELLOW MARKINGS
9. THE EXISTING BOULEVARD IS TO BE RESTORED IMMEDIATELY FOLLOWING CONSTRUCTION, ANY EXISTING DRIVEWAYS/CURBING WHICH HAVE BEEN REMOVED SHALL BE REPLACED WITH BARRIER CURB AND SOD.

SERVICING NOTES:
1. CONTRACTOR TO CONFIRM ALL EXISTING INVERTS PRIOR TO INTERNAL SERVICING.
2. ALL SEWERS AND DRAINAGE APPURTENANCES, MATERIALS AND INSTALLATION TO BE IN ACCORDANCE WITH OPSS 410
3. ALL STORM SEWERS UP TO 525mm IN DIAMETER ARE TO BE PVC DR35 OR HDPE
4. ALL STORM SEWERS OVER 525mm IN DIAMETER ARE TO BE CONCRETE CLASS 65D
5. ALL SANITARY SEWERS ARE TO BE PVC DR35.
6. EMBEDMENT AND BACKFILL FOR PVC OR HDPE SEWERS SHALL B AS PER OPSD 802.020E

SANITARY SEWERS
1. ALL SEWERS SHALL BE CONSTRUCTED WITH O.P.S.D. 802.03 CLASS B BEDDING UNLESS SPECIFIED OTHERWISE.
2. ALL EXISTING MANHOLE TOPS TO BE ADJUSTED TO FINISHED GRADE OR BASE ASPHALT WHERE REQUIRED.
3. ALL MATERIALS USED IN THE CONSTRUCTION OF ROADS SHALL BE IN ACCORDANCE WITH REGION.
4. PSM PVC PIPES AND GASKETS SHALL CONFORM TO THE REQUIREMENTS OF CSA B182.2, O.P.S.S. 1841, O.P.S.D. 806.040 AND O.P.S.D. 806.06.
5. BENCHING TO BE TO OBVERT OF PIPE.
6. SAFETY GRATES ARE NOT REQUIRED ON MANHOLES LESS THAN 10M DEEP.
7. TRENCH PLUGS TO BE INSTALLED EVERY 50-100M. 8. WATER TIGHT, LOCKING MANHOLE COVERS ARE REQUIRED ON ALL SANITARY SEWERS LOCATED IN EASEMENT.

CONSTRUCTION NOTES AND SPECIFICATIONS
1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
   1.1. CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS. REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.
   1.2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
   1.3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THE PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
   1.4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
2. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
3. ALL UNDERGROUND SERVICES ARE TO BE CONSTRUCTED IN FULL COMPLIANCE WITH ONTARIO PROVINCIAL BUILDING CODE (PART 7, PLUMBING) AND THE REQUIREMENTS OF THE TOWN OF MILTON AND THE REGIONAL MUNICIPALITY OF HALTON; WHICH CODES AND REGULATIONS SHALL SUPERSEDE ALL OTHERS.
4. CONTRACTOR IS RESPONSIBLE FOR CONTACTING CONSULTING ENGINEERS 48 HOURS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. CONSULTING ENGINEERS TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICES INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE, VISION C, PART 1 SECTION 1.2.2. GENERAL REVIEW: FAILURE TO NOTIFY CONSULTING ENGINEERS WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
5. SITE SERVICING CONTRACTOR TO TERMINATE ALL SERVICES 1.0 METRES FROM FOUNDATION WALL.
6. 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 LOCAL MUNICIPALITY AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
7. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM
8. ALL REMOVALS SHALL BE IN ACCORDANCE WITH OPSS 510. ALL REMOVED MATERIALS SHALL BE DISPOSED OFF SITE.
9. SILTATION CONTROL SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
10. ALL GRADING WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH OPSS 206.
11. THE CONTRACTOR TO NOTIFY ENGINEER PRIOR TO SAWCUTTING EXISTING ASPHALT FOR CONFIRMATION OF POSITIVE DRAINAGE.
12. ALL GRANULAR MATERIAL SHALL CONFORM TO OPSS 1010, AND BE INSTALLED IN ACCORDANCE WITH OPSS 501.
13. ALL ASPHALT MATERIALS SHALL BE IN ACCORDANCE WITH OPSS 1101 AND BE INSTALLED IN ACCORDANCE WITH OPSS 310.
14. CONCRETE SHALL BE IN ACCORDANCE WITH OPSS 1350 AND HAVE MINIMUM COMPRESSIVE STRENGTH OF 30MPA AFTER 28 DAYS.
15. SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH OPSS 410. TRENCH BACKFILL TO BE APPROVED NATIVE MATERIAL
16. CATCHBASIN AND MANHOLE ADJACENT SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 408.
17. ALL DISTURBED GRASSED AREAS ARE TO BE RESTORED WITH 150MM DEPTH TOPSOIL AND SOD.
18. TOPSOIL SHALL BE IN ACCORDANCE WITH OPSS 570 AND SOD IN ACCORDANCE WITH OPSS 571.

STORM SEWERS
1. COMMON TRENCH – SEWERS SHALL BE INSTALLED PER THE REGIONAL MUNICIPALITY OF HALTON STD. S7. THE SPACING SHALL BE MIN. 600MM BEDDING SHALL BE CLASS "B", UNLESS OTHERWISE NOTED. ULTRA RIB COVER AND BEDDING SHALL BE HIGH PERFORMANCE STONE.
2. SEPARATE TRENCH – THE SPACING SHALL BE 3.0M FROM CENTER TO CENTER.
3. STORM SEWERS – SIZES 525MM IN DIAMETER OF LESS SHALL BE PVC (SDR 35) CONFORMING TO THE CSA REQUIREMENTS NOTED WITHIN OPSS 1841. MINIMUM PIPE STIFFNESS SHALL BE 320 KPA. BEDDING MUST BE COMPACTED TO MIN 100SPD. SIZES OF 675MM DIAMETER AND LARGER SHALL BE CONCRETE CONFORMING TO SCA STANDARD A257.2 CLASS AS SHOWN. ALL STORM SEWERS TO HAVE RUBBER GASKET JOINTS.
4. CATCH BASINS – SINGLE PRE–CAST SHALL BE INSTALLED PER OPSD 705.01, DOUBLE PRE–CAST CATCH BASINS PER OPSD 705.02. ROAD CATCH BASINS SHALL HAVE FRAMES AND GRATES CONFORMING TO OPSD 400.01. SINGLE CATCH BASIN LEADS SHALL BE 250MM IN DIAMETER ℅ MINIMUM. DOUBLE CATCH BASIN LEADS SHALL BE 300MM IN DIAMETER CSA–A257.1 AT 1 ℅ MINIMUM. FIRST JOINT OUT OF A CATCH BASIN IS TO HAVE A CONCRETE CRADLE. CSA–A257.1 AT 1 ℅ IF CONCRETE PIPE IS USED, OR A FLEXIBLE JOINT, IF PVC PIPE IS USED. CATCHBASINS TO HAVE A COMPLETE GRANULAR BACKFILL.
5. FILTER FABRIC TO BE PLACED IN ALL STREET. SILT STRAPS ARE TO BE CLEANED REGULARLY AND INSPECTED AFTER EACH RAINFALL BY THE CONTRACTOR AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND BOULEVARDS ARE SODDED OR BACKYARDS ARE GRADED AND SODDED. SEDIMENT TO BE REMOVED AND FILTER CLOTH TO BE REPLACED AS NECESSARY.
6. MANHOLES ARE TO BE CONSTRUCTED AS PER OPSS AND OPSD 701.010, AS AMENDED BY THE REGION OF HALTON AND CAN/CSZ A–257. FRAMES AND GRATES TO CONFORM TO OPSD 401.01. MANHOLES ARE TO BE BACKFILLED WITH MINIMUM 1.0M OF COMPACTED GRANULAR BACKFILL AROUND MANHOLE. BENCHING AS PER OPSD 701.021.

WATERMAIN NOTES
1. WATERMAINS 150MM Ø TO 300MM Ø TO BE P.V.C. CL.150 (DR–18) WITH GASKETED JOINTS. WATERMAINS 400–900MM Ø TO BE C.P.P. AWWA C–301 CLASS 18 WITH GASKETED JOINTS OR P.V.C. CL.150 (DR–18) WITH GASKETED JOINTS.
2. MINIMUM 150MM Ø SERVICE CONNECTION FOR INDUSTRIAL/COMMERCIAL LOTS.
3. A MIN. HORIZONTAL SEPARATION OF 2.5M AND A MIN. VERTICAL SEPARATION OF 0.15MM BETWEEN WATERMAINS AND SEWERS MUST BE MAINTAINED IF WATERMAIN IS ABOVE SEWER OR 0.50M IF SEWER ABOVE WATERMAIN.
4. WATERMAIN BEDDING TO BE SUITABLE GRANULAR BEDDING MATERIAL AS PER O.P.S.D. 802.030, 802.031, 802.032, AND 802.033 REV. 41.
5. "HIGH PERFORMANCE BACKFILL" MATERIAL TO BE USED AT FULL WIDTH AND DEPTH OF THE TRENCH CROSSING R.R.25 UP TO MINIMUM 150MM (6") BELOW THE ASPHALT SUBBASE, COMPACTED TO 100% PROCTOR DENSITY.
6. MINIMUM 150MM (6") OF GRANULAR "A" BACKFILL MATERIAL TO BE USED AS A CAP ON TOP OF "HIGH PERFORMANCE BACKFILL" TO THE ASPHALT SUBBASE, COMPACTED TO 100% PROCTOR DENSITY.
7. ALL HYDRANTS AS PER O.P.S.D. 1105.01 TO HAVE STEAMER CONNECTIONS.

STORM STRUCTURES

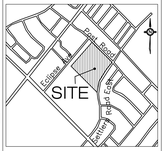
STRUCTURE	OPSD STRUCTURE STANDARD	OPSD/GRATE COVER STANDARD
MH1	701.010	401.010
CB2	705.010	400.010
CBMH3	701.010	400.010
CB4	705.010	400.010
MH5	701.010	401.010
CBMH6	701.010	400.010
CBMH7	701.010	400.010
CB8	705.010	400.010
MH9	701.010	401.010
CB10	701.010	400.010
CBMH11	701.011	400.010
CBMH12	701.010	400.010
CBMH13	701.010	400.010
CBMH14	701.010	400.010
MH15	701.010	401.010
CB21	705.010	400.010
MH22	701.0100	401.010
MH23	701.0100	401.010
MH24	701.010	401.010
MH25	701.010	401.010
CB26	705.010	400.010
MH27	701.010	401.010
CB28	705.010	400.010
AD16		
AD17		
AD18		
AD19		
A020		
OGS UNIT - 1	JF6-5-1	
OGS UNIT - 2	JF8-7-2	

SANITARY STRUCTURES

STRUCTURE	OPSD STRUCTURE STANDARD	OPSD/GRATE COVER STANDARD
MHA1	701.010	401.010

50mm
750mmø PIPE INV 179.53
290mmø ORIFICE PLATE INV 179.53
6.5mm THICK STAINLESS STEEL PLATE CURVED TO SUIT MH, ANCHORED TO PRECAST WITH 10mm x 100mm ANCHOR BOLTS.
NOTE: EXCEPT OPENING OUTLET, PLATE & BOLTS TO BE PARGED OVER FLUSH WITH MANHOLE WALL.
ORIFICE PLATE DETAIL
SCALE NTS

PROJECT NORTH / TRUE NORTH

KEYMAP: N.T.S


LEGEND:
- FH — DENOTES FIRE HYDRANT
- GV — DENOTES GAS VALVE
- HT — DENOTES HYDRO TRANSFORMER
- MH — DENOTES MANHOLE
- SN — DENOTES STREET SIGN
- SAN — DENOTES SANITARY
- STM — DENOTES STORM
- UP — DENOTES UTILITY POLE
- V — DENOTES VAULT
- WV — DENOTES WATER VALVE
- x — DENOTES FENCE LINE
- EX UNDERGROUND GAS
- EX UNDERGROUND STORM SEWER
- EX SANITARY SEWER
- EX WATER SERVICE
- WV/C 1/C — PROPOSED STORM MANHOLE
- CBMH/C 1/C — PROPOSED CATCHBASIN MANHOLE
- CB 1/C — PROPOSED CATCHBASIN
- MH/ST 1/C — PROPOSED SANITARY MANHOLE
- WV — PROPOSED WATER VALVE BOX
- PROPOSED WATERMAIN
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- M — PROPOSED WATER METER
- BF — PROPOSED BACKFLOW PREVENTER
- PROPOSED FIRE HYDRANT
- PROPERTY LINE

BENCHMARK:
ALL ELEVATIONS SHOWN HERE ON ARE GEODETIC AND ARE RELATED TO THE TOWN OF OAKVILLE BENCH MARK NO. 276 HAVING AN ELEVATION OF 175.722m (CGVD 1928 / 1978 ADJUSTMENT)

NO	REVISIONS	DATE (MM/DD/YY)
2	ISSUED FOR COORDINATION	12/17/2025
3	ISSUED FOR SPA	01/13/2026
4	ISSUED FOR SPA	02/11/2026
5	ISSUED FOR CLASS A COSTING	02/27/2026
6	ISSUED FOR COORDINATION	03/13/2026
7	ISSUED FOR COORDINATION	04/01/2026
8	ISSUED FOR TENDER	06/08/2026
9	ISSUED FOR SPA	07/21/2026
10	ISSUED FOR SPA	09/18/2026
11	ISSUED FOR SPA	09/23/2026
12	ISSUED FOR SPA	10/27/2026
13	ISSUED FOR TENDER	11/04/2026
NO	ISSUED	DATE

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Consulting Engineering & Project Management
555 Industrial Drive, Milton, Ontario, L9T 5E1
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Email: mgm@mgm.on.ca
www.mgm.on.ca

NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

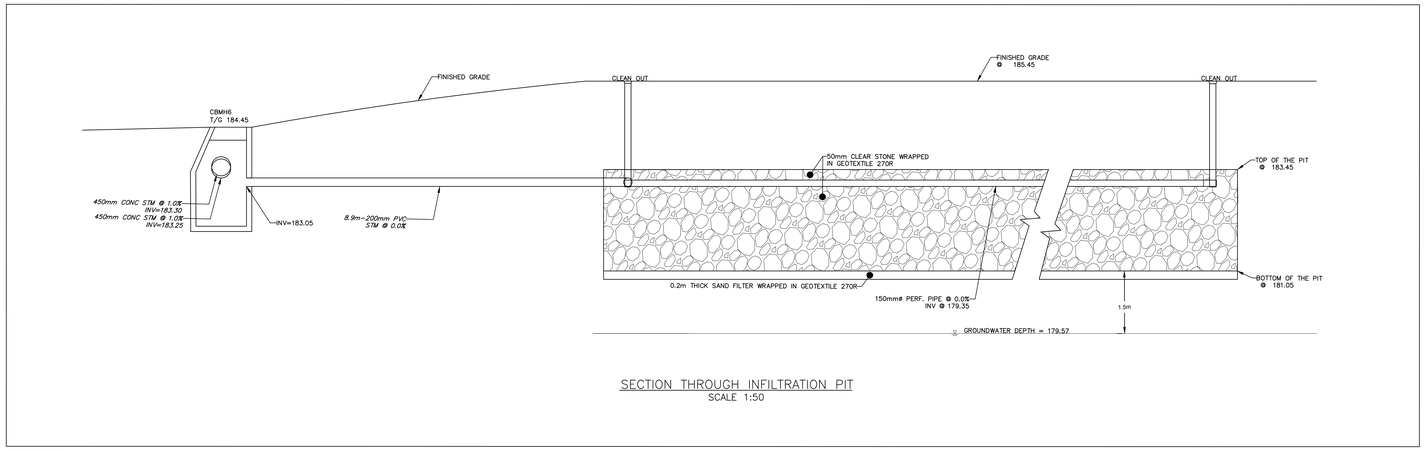
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CITY FILE#: TBA — NORTH OAKVILLE, ON

LEGAL DESCRIPTION:
BLOCK 7, REGISTERED PLAN 20M-1250 AND BLOCK 11, REGISTERED PLAN 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

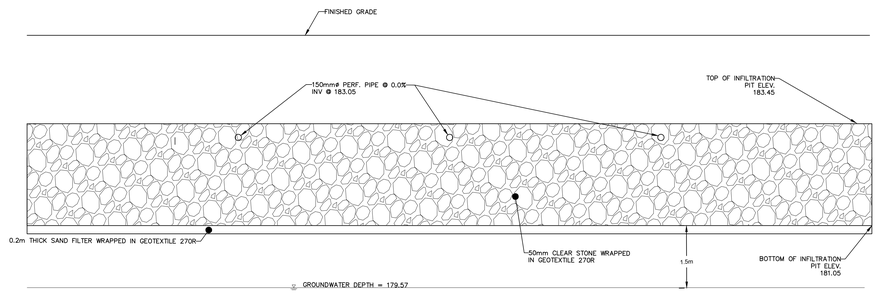
LICENSED PROFESSIONAL ENGINEER
K.T.MacDONALD-IMAGE
100539053
NOV. 04, 2026
PROVINCE OF ONTARIO

CLIENT:
HOSSACK & ASSOCIATES ARCHITECTS
365-7001 ATOMIC WAY
OAKVILLE, ONTARIO L6H 5X6
Tel (905) 607-8284 Fax (905) 607-8290

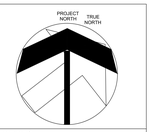
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PROJECT	2025-047
DATE	NOV 2026
DRAWN	AA
CHECKED	KL
DRAWING	SITE SERVICING PLAN CV-3
PRINT DATE	
REVIT FILE	N/A



SECTION THROUGH INFILTRATION PIT
SCALE 1:50



SECTION THROUGH INFILTRATION PIT
SCALE 1:50



KEYMAP: N.T.S



LEGEND:

BENCHMARK:

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NO	REVISIONS	DATE yyyy/mm/dd
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NO	ISSUED	DATE

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www.mgm-on.ca

NORTH OAKVILLE #3
CATHOLIC ELEMENTARY
SCHOOL

3500 POST ROAD
CITY FILE# : TBA NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

BLOCK 7, REGISTERED PLAN 20M-1250 AND
BLOCK 11, REGISTERED PLAN 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON



HALTON CATHOLIC DISTRICT SCHOOL BOARD

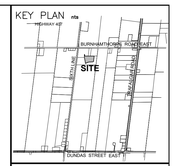
CLIENT:
HOSSACK
& ASSOCIATES
ARCHITECTS
105-1535 IRONOAK WAY
OAKVILLE, ONTARIO L6H 3V8
TH (905)257-8230 FAX (905) 257-8230

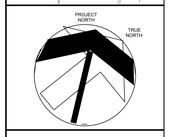
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DATE NOV 2026	
DRAWN AA	DRAWING DETAILS CV-4
CHECKED XL	
PRINT DATE	
REVIT FILE	N/A

LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- SMALL MULTI-STEM TREE
- PLANTED SOFTSCAPE
- SOD
- CONCRETE PAVING
- UNIT PAVING
- VEHICULAR PAVING
- ARTIFICIAL TURF
- RUBBER SURFACING
- SAND
- MULCH PAVING
- TPV RUBBER MULCH RING MAT
- LIMESTONE BOULDER SEATING
- CHAIN LINK FENCE
- 1.5m HT. DECORATIVE FENCE
- SW — CONCRETE SEAT WALL
- BIKE RACKS
- TREE PRESERVATION HOARDING
- SNOW STORAGE

KEY PLAN



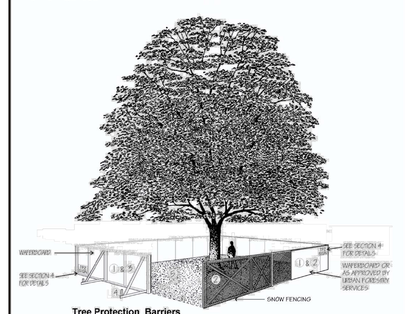


GENERAL NOTES:

1. ALL CONSTRUCTION HOARDING AND TREE PROTECTION TO BE INSTALLED PRIOR TO START OF OPERATIONS.
2. EXISTING CONDITIONS PLAN OF SURVEY BY CUNNINGHAM McCONNELL LIMITED, DATED DECEMBER 3, 2025.
3. CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
4. LAYOUT ALL WORK FOR INSPECTION AND APPROVAL BY CONSULTANT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. CONTRACTOR RESPONSIBLE FOR ANY AND ALL UNDERGROUND UTILITIES.
6. CONTRACTOR TO LAY OUT ALL SITE FURNISHINGS FOR LANDSCAPE ARCHITECT / OWNER REVIEW AND FINAL FIELD ADJUSTMENT PRIOR TO CONTRACTOR AFFIXING SITE FURNISHINGS TO HARD SURFACES.
7. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM ALL STRUCTURES.
8. CONTRACTOR TO MAKE GOOD ALL DAMAGE TO ANY EXISTING OR ADJACENT CONDITIONS/ STRUCTURES DURING CONSTRUCTION TO THE SATISFACTION AND ACCEPTANCE OF THE CONSULTANT.

SCHEDULE 1
TREE PROTECTION BARRIER

OAKVILLE



Tree Protection Barriers

PLYWOOD

1. Tree protection barriers must be 1.2m (4ft) high, waferboard hoarding or an equivalent approved by Urban Forestry Services.
2. Tree protection barriers for trees situated on the Town road allowance where visibility must be maintained can be 1.2m (4ft.) high and consist of plastic web snow fencing on a wood frame made of 2"x 4"s .
3. Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
4. All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
5. No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
7	ISSUED FOR TENDER	26 06 05
5	ISSUED FOR COORDINATION	26 03 23
4	ISSUED FOR BUILDING PERMIT	26 03 06
3	ISSUED FOR CLASS 'A' COSTING	26 03 06
2	ISSUED FOR SPA	26 02 12
1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

SP

3500 POST ROAD
NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

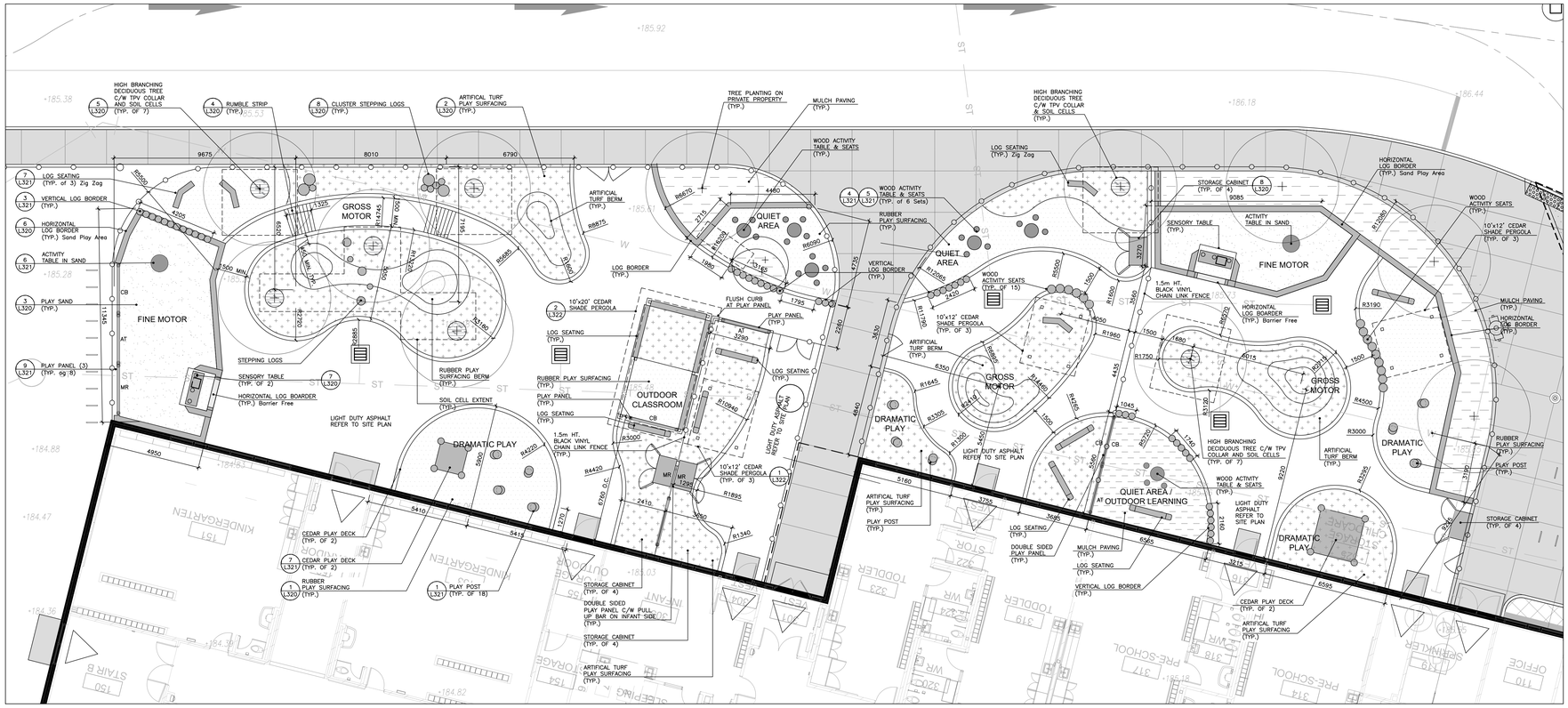
TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD — HCDSB

LANDSCAPE PLAN

FRP inc. landscape.architects
1877 Davenport Road
Toronto, M6N 1B9
www.frpinc.ca

SCALE 1:250	PROJECT 251592
DATE MAY 2026	
DRAWN KH	DRAWING L100
CHECKED KH	
PRINT DATE	



LAYOUT PLAN 1:100 (1)

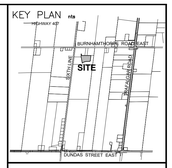


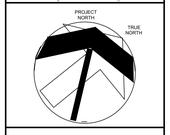
GRADING PLAN 1:100 (2)

LEGEND

- HIGH BRANCHING DECIDUOUS TREE
- HIGH BRANCHING DECIDUOUS TREE C/W RUBBER MULCH COLLAR & SOIL CELLS
- ARTIFICIAL TURF
- RUBBER PLAY SURFACING
- SAND
- EWF MULCH PAVING
- BLACK VINYL CHAIN LINK FENCE
- CB — PLAY PANEL – CHALK BOARD
- AT — PLAY PANEL – TRANSPARENT ACRYLIC
- MR — PLAY PANEL – MIRROR
- HORIZONTAL LOG BORDER, TYPICAL
- HORIZONTAL LOG BORDER, BARRIER FREE
- VERTICAL LOG BORDER
- WOOD ACTIVITY SEATS
- LOG SEATING, TYPICAL
- LOG SEATING, ZIG ZAG
- WOOD ACTIVITY TABLE & SEATS
- PLAY POST
- STEPPING LOGS
- STEPPING LOGS, CLUSTER
- SENSORY TABLE
- CEDAR PLAY DECK
- RUMBLE STRIP

KEY PLAN n.t.s





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
7	ISSUED FOR TENDER	26 06 05
5	ISSUED FOR COORDINATION	26 03 23
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2	ISSUED FOR SPA	26 02 12
1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

SP

3500 POST ROAD
NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

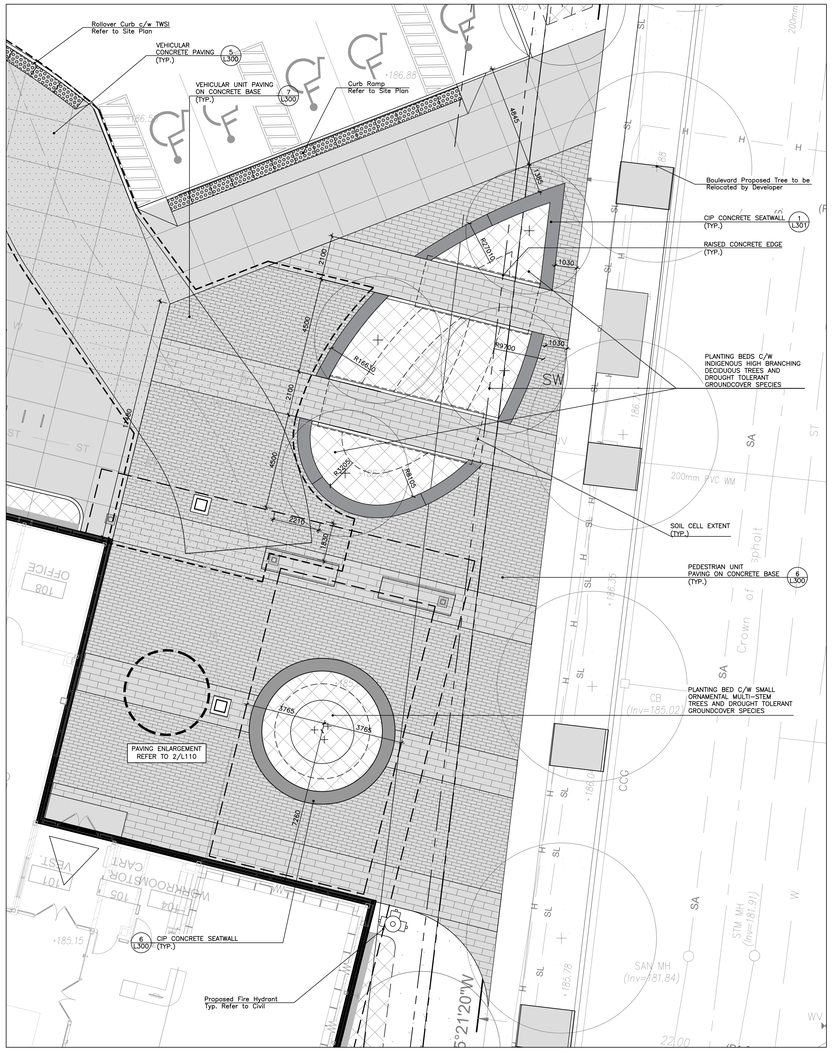
TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD

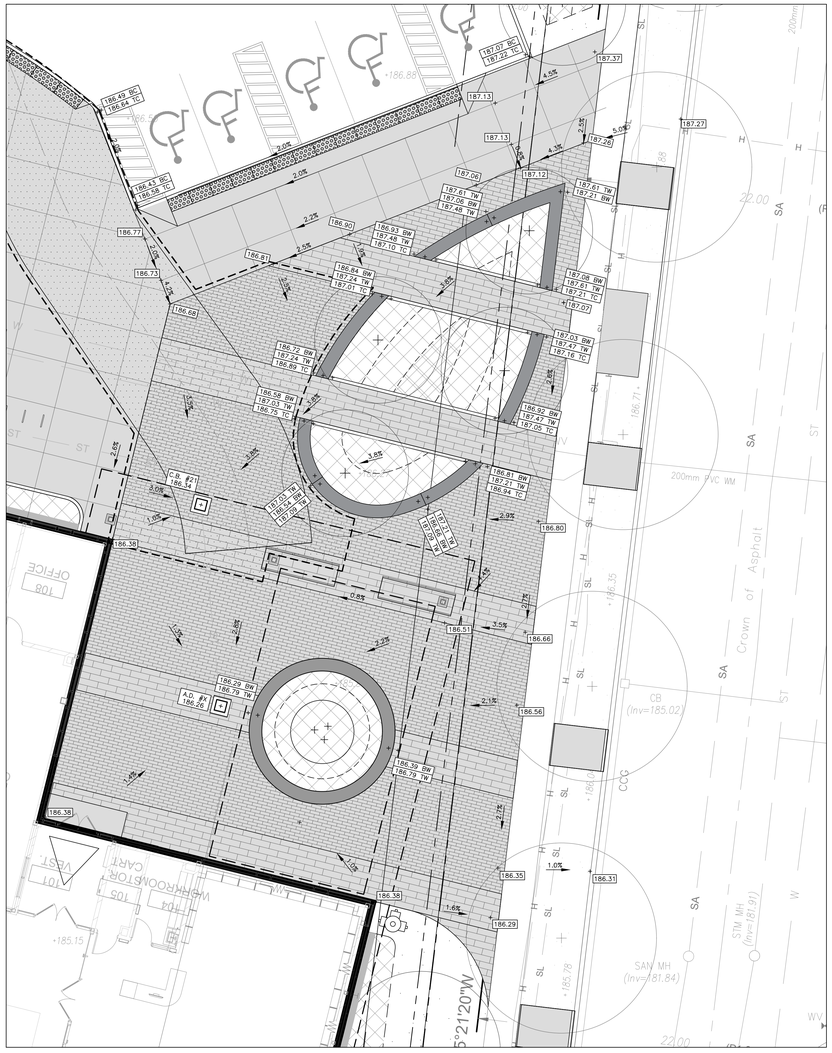
EARLY LEARNING LANDSCAPE PLAN

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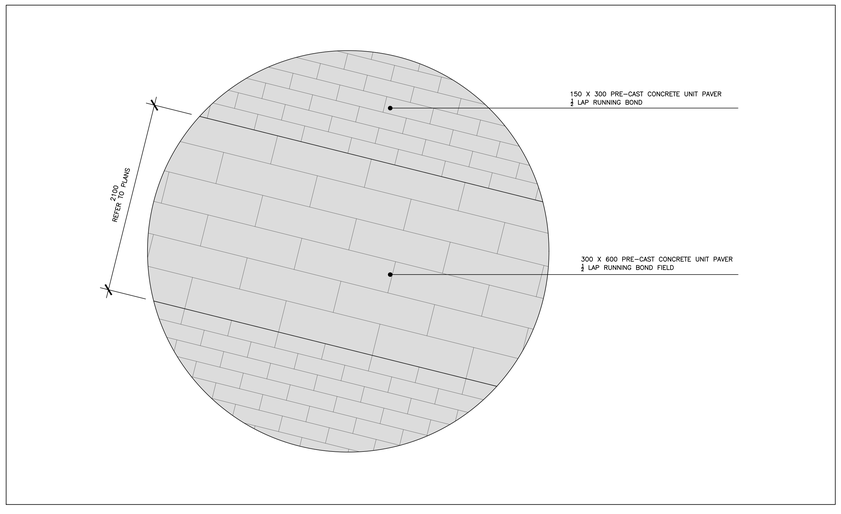
SCALE 1:100	PROJECT 251592
DATE MAY 2026	
DRAWN KH	DRAWING L105
CHECKED KH	
PRINT DATE	



LAYOUT AND GRADING – FORECOURT 1:100 2



LAYOUT AND GRADING – FORECOURT 1:100 2

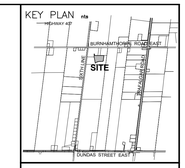


LAYOUT AND GRADING – FORECOURT NTS 2

LEGEND

- DECIDUOUS TREE
- SMALL MULTI-STEM TREE
- PLANTED SOFTSCAPE
- SOD
- CONCRETE PAVING
- UNIT PAVING
- VEHICULAR PAVING
- SW — CONCRETE SEAT WALL
- BIKE RACKS

KEY PLAN n.t.s





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
7	ISSUED FOR TENDER	26 06 05
5	ISSUED FOR COORDINATION	26 03 23
4	ISSUED FOR BUILDING PERMIT	26 03 06
3	ISSUED FOR CLASS 'A' COSTING	26 03 06
2	ISSUED FOR SPA	26 02 12
1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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KELLY V. HUNTER
MEMBER

NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

SP 3500 POST ROAD NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE,
REGIONAL MUNICIPALITY OF HALTON

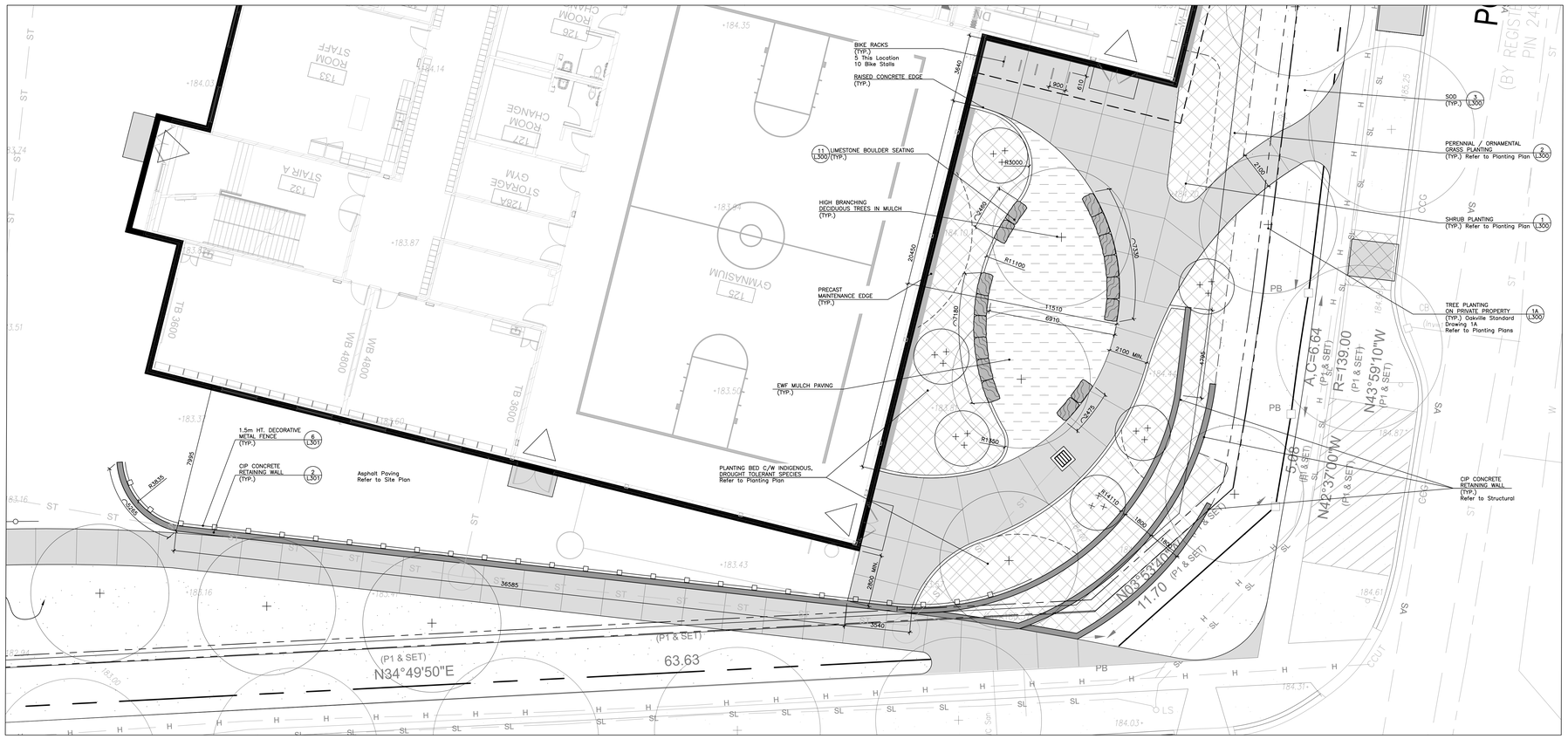
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FORECOURT LANDSCAPE PLAN

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LAYOUT – LEARNING COURTYARD 1:100 (1)

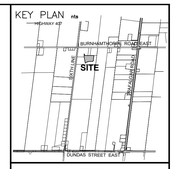


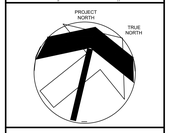
GRADING – LEARNING COURTYARD 1:100 (2)

LEGEND

- DECIDUOUS TREE
- SMALL MULTI-STEM TREE
- PLANTED SOFTSCAPE
- SOD
- CONCRETE PAVING
- UNIT PAVING
- MULCH PAVING
- LIMESTONE BOULDER SEATING
- 1.5m HT. DECORATIVE FENCE
- SW CONCRETE SEAT WALL
- BIKE RACKS

KEY PLAN n.t.s





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
7	ISSUED FOR TENDER	26 06 05
5	ISSUED FOR COORDINATION	26 03 23
4	ISSUED FOR BUILDING PERMIT	26 03 06
3	ISSUED FOR CLASS 'A' COSTING	26 03 06
2	ISSUED FOR SPA	26 02 12
1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

SP

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NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

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Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

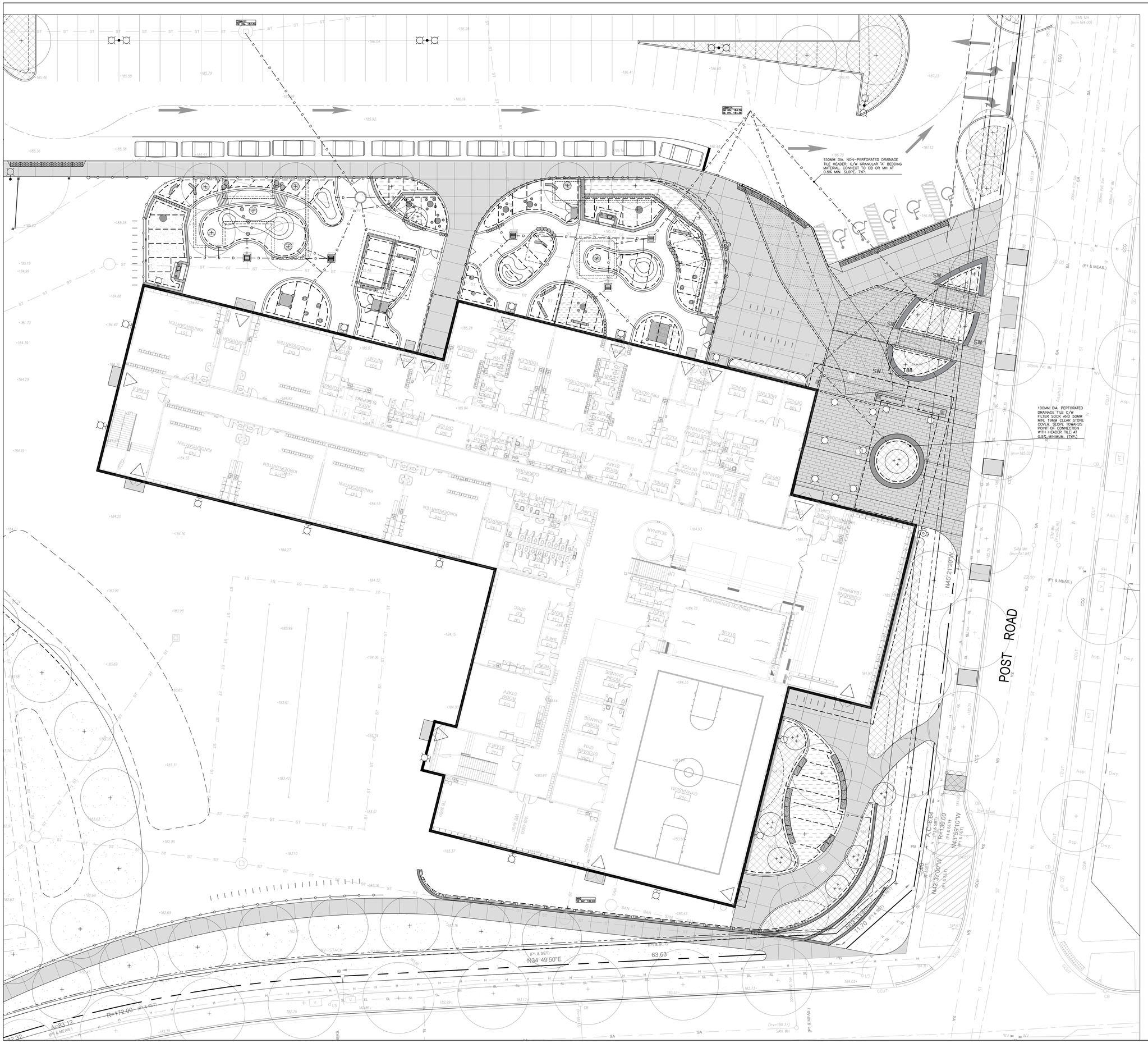
TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD

LEARNING COURTYARD LANDSCAPE PLAN

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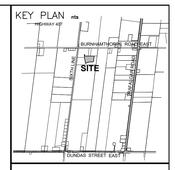
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DATE MAY 2026	
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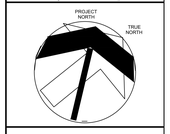


LEGEND

- DRAINAGE TILE
- SOIL CELL DRAINAGE
- DRAINAGE TILE HEADER
- TREE
- ROOT BALL
- SOIL CELL

KEY PLAN





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
7	ISSUED FOR TENDER	26 06 05
5	ISSUED FOR COORDINATION	26 03 23
4	ISSUED FOR BUILDING PERMIT	26 03 06
3	ISSUED FOR CLASS 'A' COSTING	26 03 06
2	ISSUED FOR SPA	26 02 12
1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

SP

3500 POST ROAD
NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
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HALTON CATHOLIC DISTRICT SCHOOL BOARD — CDSB — OSSTF 50 YEARS

LANDSCAPE SUB-DRAINAGE PLAN

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LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- SMALL MULTI–STEM TREE
- CONIFEROUS SHRUB
- DECIDUOUS SHRUB
- PERENNIAL / ORNAMENTAL GRASS PLANTING BED
- SOD
- SOIL CELL

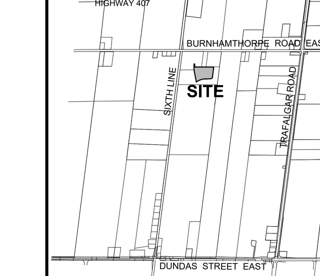
PLANTING NOTES:

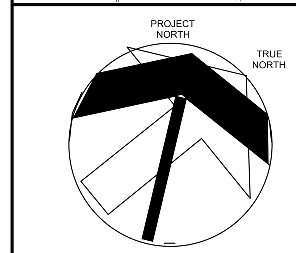
1. ALL PLANT MATERIAL IS TO MEET THE STANDARDS AS OUTLINED IN THE CANADIAN STANDARDS FOR NURSERY STOCK, CURRENT EDITION.
2. FOR ALL CONTRACTOR PURCHASED MATERIALS PLANT SIZES WILL BE AS MEASURED ON SITE. NURSERY WAYBILLS WILL NOT BE ACCEPTABLE FOR DETERMINATION OF PLANT SIZES.
3. PROTECT PLANT MATERIAL FROM FROST, EXCESSIVE HEAT, WIND AND SUN DURING TRANSPORTATION. ALL WILTED OR WIND DAMAGED PLANT MATERIAL WILL BE REJECTED.
4. CONTRACTOR TO LAYOUT ALL PLANT MATERIAL AS PER PLANTING PLANS PRIOR TO INSTALLATION FOR LANDSCAPE ARCHITECT REVIEW AND APPROVAL.
5. WARRANTY PERIOD FOR ALL PLANTING IS ONE YEAR FROM SUBSTANTIAL COMPLETION. WARRANTY REPLACEMENTS OF ALL PLANT MATERIAL WILL BE UNDERTAKEN BY THE CONTRACTOR AS REQUESTED BY THE LANDSCAPE ARCHITECT AT ANY TIME DURING THE WARRANTY PERIOD.
6. FOR BURLAPPED ROOT BALLS, CUT AWAY TOP ONE THIRD OF WRAPPING AND WIRE BASKET WITHOUT DAMAGING ROOT BALL. DO NOT PULL BURLAP OR ROPE FROM UNDER ROOT BALL. FOR POTTED PLANTS REMOVE ENTIRE CONTAINER.
7. BACKFILL SOIL IN 150mm LIFTS. TAMP EACH LIFT TO ELIMINATE AIR POCKETS. WHEN TWO THIRDS OF DEPTH OF PLANTING PIT HAS BEEN BACKFILLED, FILL REMAINING SPACE WITH WATER. AFTER WATER HAS PENETRATED INTO SOIL, BACKFILL TO FINISH GRADE.
8. PLANTS SHOWN IN GROUPS ARE TO BE PLANTED IN CONTINUOUS PLANT BEDS AS SHOWN ON PLANTING DETAIL.
9. PLANT MATERIAL INSTALLED FOLLOWING LEAF DROP IN THE FALL WILL BE ACCEPTED AFTER THE START OF THE NEXT GROWING SEASON PROVIDED THAT ACCEPTANCE CONDITIONS ARE FULFILLED.
10. ANY PLANTING OR LANDSCAPING WORK THAT IS REJECTED AT THE FINAL INSPECTION WILL BE CORRECTED IN A TIMELY MANNER AT CONTRACTOR'S EXPENSE.
10. REJECTED PLANT MATERIAL MUST BE REMOVED FROM THE SITE WITHIN ONE WORKING DAY.
11. WATER TREES ONCE A WEEK FOR FIRST 4 WEEKS AND THEN SUFFICIENTLY THERE AFTER TO MAINTAIN OPTIMUM GROWING WITHIN THE FIRST 2 YEARS AFTER PLANTING. APPLY SUFFICIENT WATER PER APPLICATION TO OBTAIN MOISTURE PENETRATION OF 75–100MM. ENSURE ADEQUATE MOISTURE IN ROOT ZONE AT FREEZE–UP.
12. ALL TOPSOIL TO BE NEW. TOPSOIL TO BE FRIABLE, SOIL TEXTURE TO CONSIST OF 45% SAND, 35% SILT, AND 20% CLAY AND CONTAIN A MAXIMUM OF 5% ORGANIC MATTER. TOPSOIL MUST BE FREE FROM SUBSOIL, ROOTS, GRASS, WEEDS, TOXIC MATERIALS, STONES, FOREIGN OBJECTS AND WITH AN ACIDITY RANGE (PH) OF 5.5 TO 7.5.
13. SOIL MIXTURE FOR PLANTING TO BE 50% SANDY TOPSOIL, 25% PEATMOSS, 25% WELL ROTTED MANURE, AND 500G BONEMEAL PER CUBIC METRE OF PLANTING SOIL.
14. CONTRACTOR TO CHECK QUANTITIES AND REPORT ANY DISCREPANCIES TO THE THE LANDSCAPE ARCHITECT IMMEDIATELY. PLANT QUANTITIES INDICATED ON THE PLAN SUPERCEDE THE TOTALS IN THE PLANT LIST.

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	CONDITION	COMMENTS	CANOPY STATURE (S,M,L)
	TREES						
AR	Acer rubrum	Red Maple	3	70mm Cal.	B&B		L
AA	Amelanchier arborea	Downy serviceberry	3	3.0m ht.	B&B	3 stem clump	S
CC	Carpinus caroliniana	Blue Beech	2	50mm Cal.	B&B		S
CO	Celtis occidentalis	Common Hackberry	11	70mm Cal.	B&B		L
Cec	Cercis canadensis	Eastern Redbud	3	3.0m ht.	B&B	3 stem clump	S
FG	Fagus grandifolia	American Beech	5	70mm Cal.	B&B		L
GB	Ginkgo billoba	Maidenhair	8	70mm Cal.	B&B	male	L
GD	Gymnocladus dioicus	Kentucky coffeetree	11	70mm Cal.	B&B		L
GT	Gleditsia triacanthos 'Shademaster'	Shademaster Honey Locust	11	70mm Cal.	B&B		M
LT	Liriodendron tulipifera	Tulip tree	10	70mm Cal.	B&B		L
NS	Nyssa sylvatica	Black gum	10	70mm Cal.	B&B		M
OV	Ostrya virginiana	Ironwood	6	50mm Cal.	B&B		M
PE	Pinus strobus	Eastern White Pine	4	70mm Cal.	B&B		L
PR	Pinus resinosa	Red Pine	4	3.0m ht.	B&B		L
QM	Quercus macrocarpa	Burr Oak	3	70mm Cal.	B&B		L
QR	Quercus rubra	Red Oak	8	70mm Cal.	B&B		L
TO	Thuja occidentalis	Eastern White Cedar	11	3.0m ht.	B&B		N/A
TA	Tilia americana	Basswood	10	70mm Cal.	B&B		L
	CONIFEROUS SHRUBS						
Pm	Pinus mugo 'Jakobsen'	Jakobsen Mugo Pine	89	3 Gal.	Potted		
Ppg	Picea pungens 'Globosa'	Dwarf Blue Spruce	26	3 Gal.	Potted		
	DECIDUOUS SHRUBS						
Ca	Ceanothus americana	New Jesery Tea	96	3 Gal.	Potted		
Dl	Diervilla lonicera	Bush Honeysuckle	82	3 Gal.	Potted		
Po	Physococarpus opulifolus	Common Ninebark	31	3 Gal.	Potted		
	PERENNIALS						
ga	Gaillardia artistata	Blanket Flower	341	1 Gal.	Potted		
gm	Geranium maculatum	Wild Geranium	106	1 Gal.	Potted		
ls	Liatris spicata	Dense Blazing Star	576	1 Gal.	Potted		
pa	Perovskia atriplicifolia 'Denim 'N Lace'	Russian Sage	779	1 Gal.	Potted		
rh	Rudbeckia hirta	Black-eyed Susan	1080	1 Gal.	Potted		
	ORNAMENTAL GRASSES						
ca	Calamagrostis acutiflora 'Karl Foerster'	Feather Reed Grass	321	2 Gal.	Potted		
sh	Sporobolus heterolepsis	Prairie Dropseed	1046	2 Gal.	Potted		
ss	Schizachyrium scoparium	Little Bluestem	31	2 Gal.	Potted		

KEY PLAN nts





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
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1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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KELLY V. HUNTER
MEMBER

NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

SP

3500 POST ROAD
NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

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Block 11, Registered Plan 20M-1302
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REGIONAL MUNICIPALITY OF HALTON

TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD

PLANTING PLAN

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DATE MAY 2026	
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LEGEND

- SMALL DECIDUOUS TREE
- MEDIUM DECIDUOUS TREE
- LARGE DECIDUOUS TREE
- LARGE CONIFEROUS TREE

CANOPY SUMMARY

Total Site Area	24,696	m^2
Canopy Coverage Target by Land Use	25.00	%
Proposed Site Canopy Cover by 2057	23.26	%
Parking Area Summary		
Total Parking Spaces Proposed	121	
Total # of Trees in or within 5m of Parking Area	15	

TREE CANOPY CALCULATION CHART

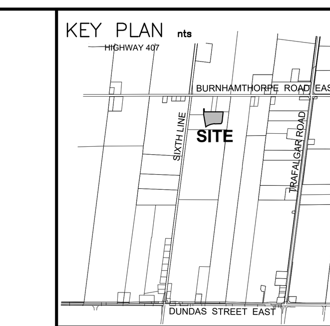
TREE #	BOTANICAL NAME	CATEGORY S,M,L	SOIL AREA	SOIL VOLUME PER TREE (m^3)	SHARED VOLUME Y,N	CANOPY AREA (m^2)	CANOPY AREA SUBTOTAL(m^2)
T1	Pinus resinosa	L	1	24.8	Y	28	
T2	Pinus resinosa	L	1	24.8	Y	28	
T3	Pinus resinosa	L	1	24.8	Y	28	
T4	Quercus rubra	L	1	24.8	Y	64	
T5	Quercus rubra	L	1	24.8	Y	64	
T6	Quercus rubra	L	1	24.8	Y	64	
T7	Tilia americana	L	1	24.8	Y	64	
T8	Tilia americana	L	1	24.8	Y	64	
T9	Tilia americana	L	1	24.8	Y	64	
T10	Tilia americana	L	1	24.8	Y	64	
T11	Tilia americana	L	1	24.8	Y	64	
T12	Quercus macrocarpa	L	1	24.8	Y	64	
T13	Quercus macrocarpa	L	1	24.8	Y	64	
T14	Quercus macrocarpa	L	1	24.8	Y	64	
T15	Pinus strobus	L	1	24.8	Y	28	
T16	Pinus strobus	L	1	24.8	Y	28	
T17	Pinus strobus	L	1	24.8	Y	28	
T18	Pinus strobus	L	1	24.8	Y	28	
T19	Tilia americana	L	1	24.8	Y	64	
T20	Tilia americana	L	1	24.8	Y	64	
T21	Tilia americana	L	1	24.8	Y	64	
T22	Tilia americana	L	1	24.8	Y	64	
T23	Tilia americana	L	1	24.8	Y	64	
T24	Celtis occidentalis	L	1	24.8	Y	64	
T25	Celtis occidentalis	L	1	24.8	Y	64	
T26	Celtis occidentalis	L	1	24.8	Y	64	
T27	Liriodendron tulipifera	L	2	25.6	Y	64	
T28	Liriodendron tulipifera	L	2	25.6	Y	64	
T29	Liriodendron tulipifera	L	2	25.6	Y	64	
T30	Liriodendron tulipifera	L	2	25.6	Y	64	
T31	Liriodendron tulipifera	L	2	25.6	Y	64	
T32	Liriodendron tulipifera	L	2	25.6	Y	64	
T33	Gymnocladus dioicus	L	2	25.6	Y	64	
T34	Gymnocladus dioicus	L	2	25.6	Y	64	
T35	Gymnocladus dioicus	L	2	25.6	Y	64	
T36	Acer rubrum	L	3	28.7	Y	64	
T37	Acer rubrum	L	3	28.7	Y	64	
T38	Acer rubrum	L	3	28.7	Y	64	
T39	Celtis occidentalis	L	3	28.7	Y	64	
T40	Celtis occidentalis	L	3	28.7	Y	64	
T41	Celtis occidentalis	L	3	28.7	Y	64	
T42	Quercus rubra	L	3	28.7	Y	64	
T43	Quercus rubra	L	3	28.7	Y	64	
T44	Quercus rubra	L	3	28.7	Y	64	
T45	Nyssa sylvatica	M	3	19.1	Y	38	
T46	Nyssa sylvatica	M	3	19.1	Y	38	
T47	Nyssa sylvatica	M	3	19.1	Y	38	
T48	Quercus rubra	L	3	28.7	Y	64	
T49	Quercus rubra	L	3	28.7	Y	64	
T51	Gymnocladus dioicus	L	4	24.6	Y	58	
T52	Gymnocladus dioicus	L	4	24.6	Y	61	
T53	Gymnocladus dioicus	L	4	24.6	Y	64	
T54	Gymnocladus dioicus	L	4	24.6	Y	64	
T55	Gymnocladus dioicus	L	4	24.6	Y	64	
T56	Ginkgo biloba	L	4	24.6	Y	64	
T57	Ginkgo biloba	L	4	24.6	Y	64	
T58	Ginkgo biloba	L	4	24.6	Y	64	
T59	Celtis occidentalis	L	3	28.7	Y	64	
T60	Celtis occidentalis	L	3	28.7	Y	64	
T61	Celtis occidentalis	L	3	28.7	Y	64	
T62	Celtis occidentalis	L	3	28.7	Y	64	
T63	Celtis occidentalis	L	3	28.7	Y	62	
T64	Ostrya virginiana	M	3	19.1	Y	35	
T65	Liriodendron tulipifera	L	3	28.7	Y	64	
T66	Liriodendron tulipifera	L	3	28.7	Y	64	
T67	Pinus resinosa	L	3	28.7	Y	18	
T68	Nyssa sylvatica	M	3	19.1	Y	38	
T69	Nyssa sylvatica	M	3	19.1	Y	38	
T70	Nyssa sylvatica	M	3	19.1	Y	38	
T71	Fagus americana	L	2	25.6	Y	64	
T72	Fagus americana	L	2	25.6	Y	64	
T73	Fagus americana	L	2	25.6	Y	64	
T74	Ginkgo biloba	L	19	23.3	N	64	
T75	Cercis canadensis	S	18	15.5	Y	11	
T76	Cercis canadensis	S	18	15.5	Y	10	
T77	Cercis canadensis	S	16	15.5	Y	15	
T78	Liriodendron tulipifera	L	17	24.6	Y	62	
T79	Liriodendron tulipifera	L	17	24.6	Y	62	
T80	Amelanchier arborea	S	19	7.8	Y	13	
T81	Amelanchier arborea	S	19	7.8	Y	17	
T82	Amelanchier arborea	S	20	8.5	Y	12	
T83	Ginkgo biloba	L	20	25.5	N	64	
T84	Ginkgo biloba	L	20	25.5	N	64	
T85	Ginkgo biloba	L	15	24.8	N	64	
T86	Ginkgo biloba	L	15	24.8	N	64	
T87	Carpinus caroliniana	S	14	25	N	20	
T88	Nyssa sylvatica	M	13	23	Y	38	
T89	Nyssa sylvatica	M	13	23	Y	38	
T90	Nyssa sylvatica	M	13	23	Y	38	
T91	Nyssa sylvatica	M	13	23	Y	38	
T92	Ostrya virginiana	M	12	24.2	Y	38	
T93	Ostrya virginiana	M	12	24.2	Y	38	
T94	Ostrya virginiana	M	11	23.9	Y	38	
T95	Ostrya virginiana	M	11	23.9	Y	38	
T96	Ostrya virginiana	M	11	23.9	Y	38	
T97	Gymnocladus dioicus	L	10	18.4	Y	64	
T98	Gymnocladus dioicus	L	10	18.4	Y	64	
T99	Gymnocladus dioicus	L	5	42.8	Y	64	
T100	Gleditsia triacanthos 'Shademaster'	M	9	22.5	Y	38	
T101	Gleditsia triacanthos 'Shademaster'	M	9	22.5	Y	38	
T102	Gleditsia triacanthos 'Shademaster'	M	9	22.5	Y	38	
T103	Gleditsia triacanthos 'Shademaster'	M	8	25	N	38	
T104	Gleditsia triacanthos 'Shademaster'	M	9	22.5	N	38	
T105	Gleditsia triacanthos 'Shademaster'	M	7	17	N	38	
T106	Gleditsia triacanthos 'Shademaster'	M	6	20.9	Y	38	
T107	Gleditsia triacanthos 'Shademaster'	M	6	20.9	Y	33	
T108	Gleditsia triacanthos 'Shademaster'	M	6	20.9	Y	36	
T109	Gleditsia triacanthos 'Shademaster'	M	6	20.9	N	38	
T110	Gleditsia triacanthos 'Shademaster'	M	6	20.9	Y	38	
T111	Carpinus caroliniana	S	7	8.5	Y	18	
						Subtotal of proposed canopy	5619

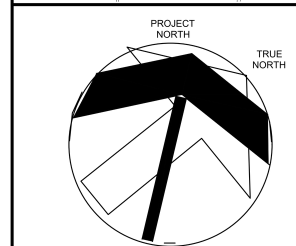
STREET TREE CANOPY OVERHANGING SITE

TREE #	BOTANICAL NAME	CANOPY AREA ON SITE(m^2)	CANOPY AREA SUBTOTAL(m^2)
E1	Celtis occidentalis	10	
E2	Celtis occidentalis	10	
E3	Quercus rubra	10	
E4	Quercus rubra	10	
E5	Quercus rubra	7	
E6	Ulmus 'Morton'	8	
E7	Ulmus 'Morton'	10	
E8	Ulmus 'Morton'	10	
E9	Ulmus americana	5	
E10	Ulmus americana	5	
E11	Ulmus americana	6	
E12	Ulmus americana	6	
E13	Acer x freemanii	5	
E14	Acer x freemanii	6	
E15	Acer x freemanii	6	
E16	Celtis occidentalis	4	
E17	Celtis occidentalis	4	
E18	Celtis occidentalis	1	
E19	Quercus rubra	2	
E20	Quercus rubra	N/A	
	Subtotal of street tree canopy (overhanging site)		125

TOTAL CANOPY AREA (m2) 5744

KEY PLAN nts





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
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5	ISSUED FOR COORDINATION	26 03 23
4	ISSUED FOR BUILDING PERMIT	26 03 06
3	ISSUED FOR CLASS 'A' COSTING	26 03 06
2	ISSUED FOR SPA	26 02 12
1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
KELLY V. HUNTER
MEMBER

NORTH OAKVILLE #3
CATHOLIC ELEMENTARY
SCHOOL

SP
3500 POST ROAD
NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD HCDSB

TREE CANOPY PLAN

FRP inc.
landscape.architects
1877 Davenport Road
Toronto, M6N 1B9
www.frpinc.ca

SCALE	1:250	PROJECT	251592
DATE	MAY 2026		
DRAWN	KH	DRAWING	L205
CHECKED	KH		
PRINT DATE			



LEGEND

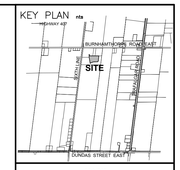
- SMALL DECIDUOUS TREE
- MEDIUM DECIDUOUS TREE
- LARGE DECIDUOUS TREE
- LARGE CONIFEROUS TREE

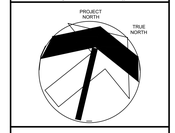
SOIL VOLUME CALCULATION CHART

	Soil Area (m^2)	Soil Depth(m*)	Soil Volume (m^3)	Tree Quantity			Weighted Average Soil Volume per Tree (m^3)		
				S	M	L	S	M	L
1	643.7	1	643.7			26			24.8
2	307.4	1	307.4			12			25.6
3	678.2	1	678.2		7.0	19		19.1	28.7
4	196.5	1	196.5			8.0			24.6
5	42.8	1	42.8			1.0			42.8
6	104.7	1	104.7		5.0			20.9	
7	25.5	1	25.5	1.0	1.0		8.5	17.0	
8	25.0	1	25.0		1.0			25.0	
9	89.8	1	89.8		4.0			22.5	
10	36.8	1	36.8			2.0			18.4
11	71.6	1	71.6		3.0			23.9	
12	48.4	1	48.4		2.0			24.2	
13	92.0	1	92.0		4.0	0.0		23.0	
14	25.0	1	25.0	1.0			25.0		
15	49.6	1	49.6			2.0			24.8
16	15.8	1	15.8	1.0			15.8		
17	49.1	1	49.1			2.0			24.6
18	31.0	1	31.0	2.0			15.5		
19	38.9	1	38.9	2.0		1.0	7.8		23.3
20	59.4	1	59.4	1.0		2.0	8.5		25.5
Totals	2631.2		2631.2	8	27	75			

* Soil depth excludes drainage layer

KEY PLAN nts





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
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2	ISSUED FOR SPA	26 02 12
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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — KELLY V. HUNTER — MEMBER

NORTH OAKVILLE #3
CATHOLIC ELEMENTARY SCHOOL

SP — 3500 POST ROAD, NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE,
REGIONAL MUNICIPALITY OF HALTON

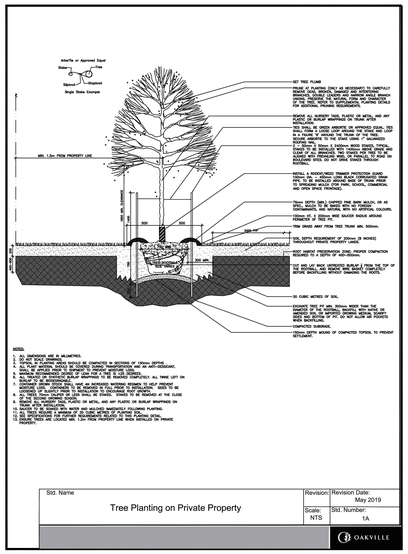
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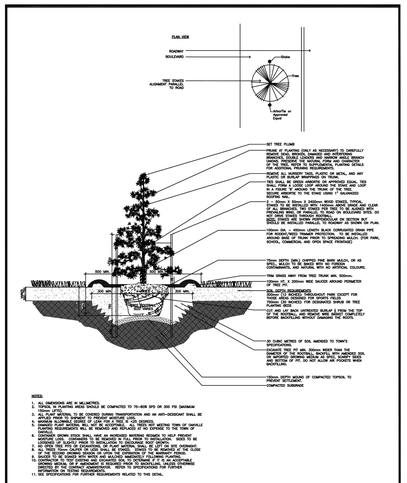
HALTON CATHOLIC DISTRICT SCHOOL BOARD — CDSB

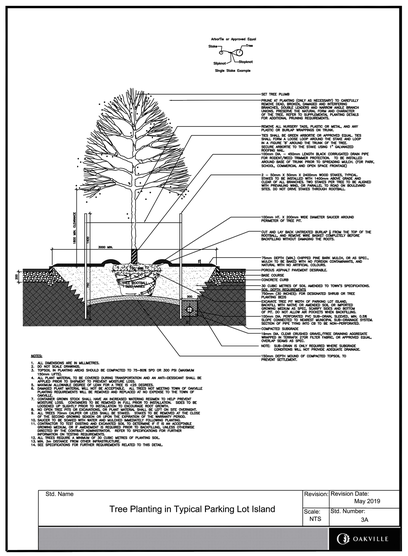
SOIL VOLUME PLAN

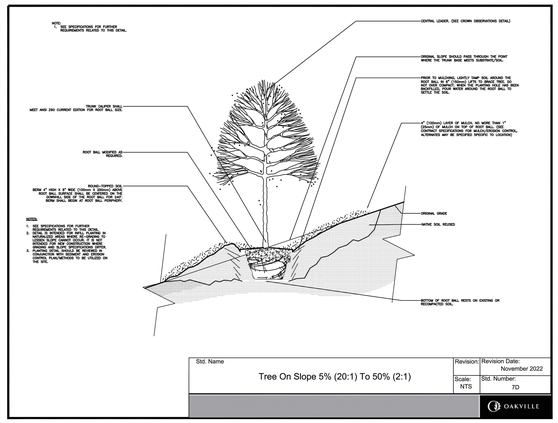
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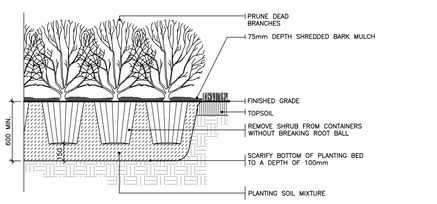
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DATE MAY 2026	
DRAWN KH	DRAWING L205
CHECKED KH	
PRINT DATE	



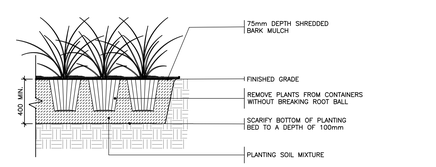




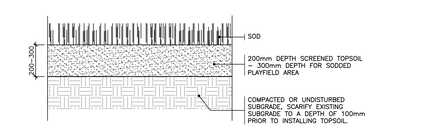




SHRUB PLANTING NTS 1

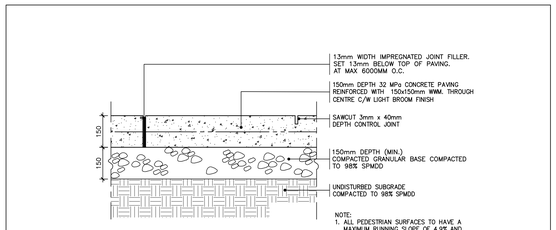


PERENNIAL / ORNAMENTAL GRASS PLANTING NTS 2



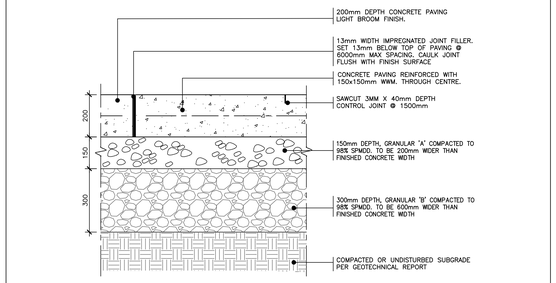
NOTE: FOR SOD ON SLOPES OF 3:1 AND 4:1, INSTALL SOD WITH THEIR LONGEST DIMENSION PERPENDICULAR TO THE SLOPE, AND STAKE TO SECURE. PAINT STAKES ALL PROTRUDING STAKES WITH ORANGE PAINT.

SOD NTS 3



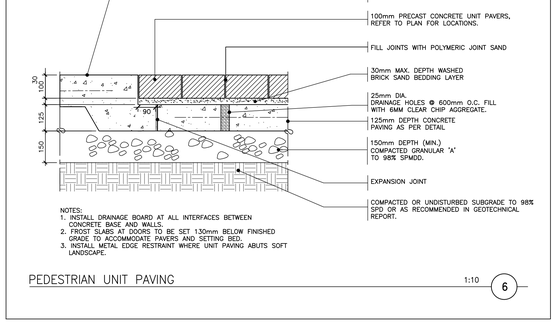
NOTE:
1. ALL PEDESTRIAN SURFACES TO HAVE A MAXIMUM RUNNING SLOPE OF 4.9% AND CROSS SLOPE OF 2%
2. INSTALL DRAINAGE BOARD AT ALL INTERFACES BETWEEN CONCRETE BASE AND CONCRETE BARRIER CURBS OR BUILDING FACE.

PEDESTRIAN CONCRETE PAVING 1:10 4



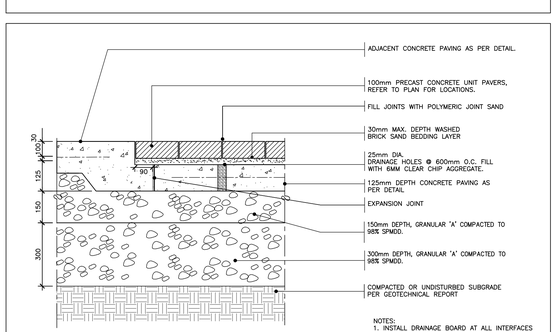
NOTE:
1. FORM VEHICULAR PAVING INDEPENDENTLY OF PEDESTRIAN PAVING AND PROVIDE EXPANSION JOINT BETWEEN

VEHICULAR CONCRETE PAVING 1:10 5



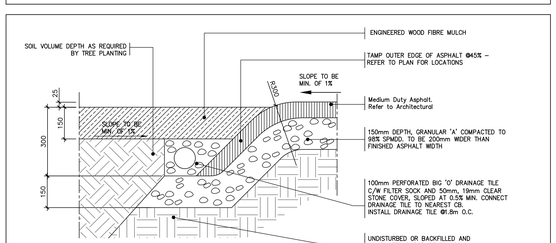
NOTES:
1. INSTALL DRAINAGE BOARD AT ALL INTERFACES BETWEEN CONCRETE BASE AND WALLS.
2. FROST SLABS AT DOORS TO BE SET 130mm BELOW FINISHED GRADE TO ACCOMMODATE PAVERS AND SETTING BED.
3. INSTALL METAL EDGE RESTRAINT WHERE UNIT PAVING ABUTS SOFT LANDSCAPE.

PEDESTRIAN UNIT PAVING 1:10 6

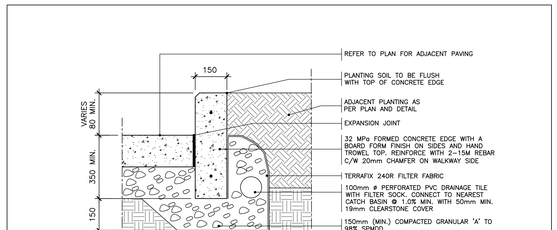


NOTES:
1. INSTALL DRAINAGE BOARD AT ALL INTERFACES BETWEEN CONCRETE BASE AND WALLS.

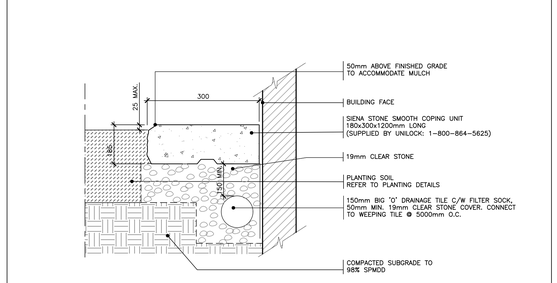
VEHICULAR UNIT PAVING 1:10 7



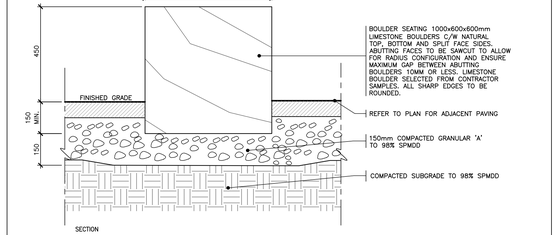
MULCH PAVING 1:10 8



RAISED CONCRETE EDGE 1:10 9

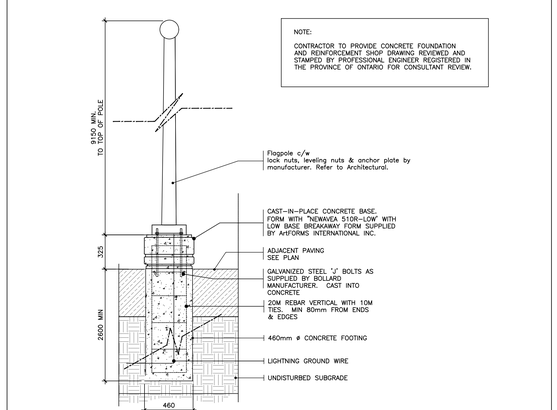


PRECAST MAINTENANCE EDGE 1:10 10



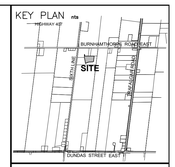
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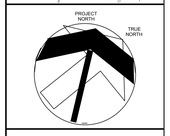
LIMESTONE BOULDER SEATING 1:10 11



FLAG POLE 1:10 12

KEY PLAN nts





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
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1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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ASSOCIATION OF LANDSCAPE ARCHITECTS ONTARIO — KELLY V. PFEIFFER — MEMBER

NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

SP

3500 POST ROAD
NORTH OAKVILLE, ON

LEGAL DESCRIPTION:
Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

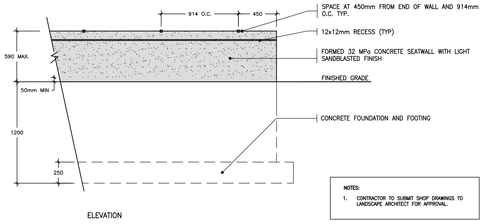
TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD

LANDSCAPE DETAILS

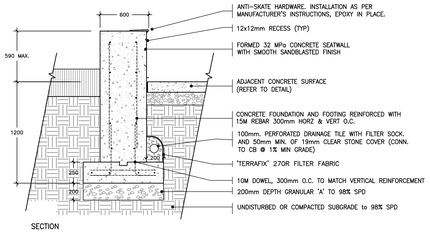
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Toronto, M6N 1B9
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SCALE	PROJECT
AS SHOWN	251592
DATE: MAY 2026	
DRAWN: KH	DRAWING
CHECKED: KH	L300
PRINT DATE	



ELEVATION

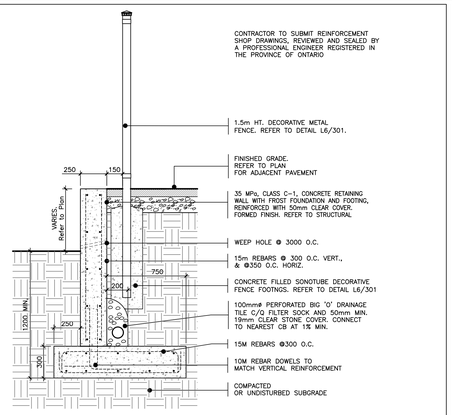
NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL.



SECTION

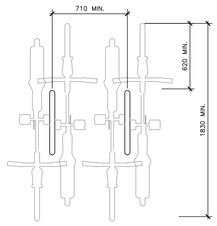
CIP CONCRETE SEATWALL

NTS (1)

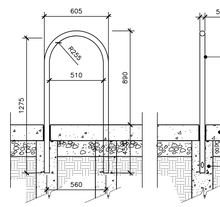


CIP CONCRETE RETAINING WALL

NTS (2)



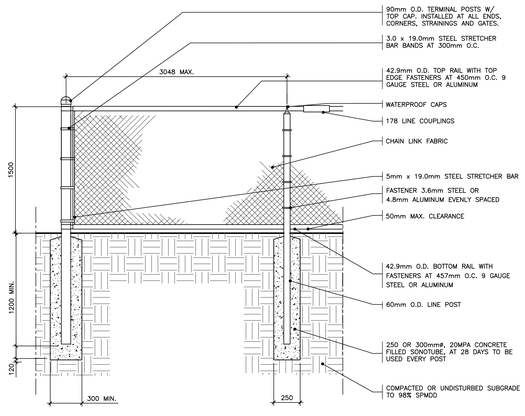
PLAN

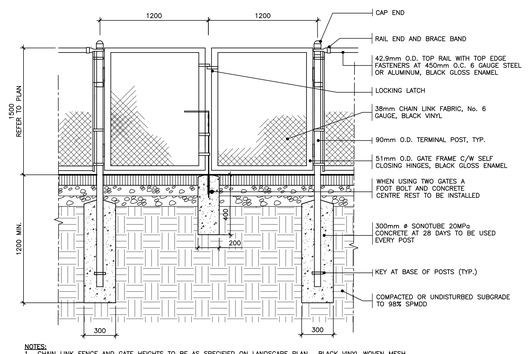


ELEVATION SECTION

BIKE RACKS

NTS (3)

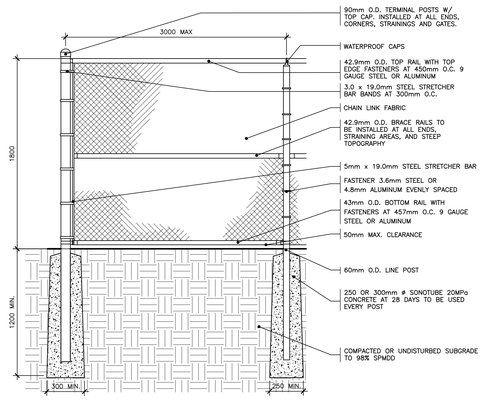




NOTES:
1. CHAIN LINK FENCE AND GATE HEIGHTS TO BE AS SPECIFIED ON LANDSCAPE PLAN. BLACK VINYL WOVEN MESH TO BE 38 x 38, 6 GA (INCL. VINYL) GALVANIZED STEEL CORE; MESH/FABRIC TO BE FASTENED TO TERMINAL POSTS WITH STRETCHER BARS AND BAR BANDS, 300mm O.C.; SECURE TO RAILS WITH 3mm WIRE TIES KNUCKLED @ 457mm O.C
2. FINISH ON ALL COMPONENTS TO BE BLACK GLOSS ENAMEL BY POWDER COAT APPLICATION. ALL SURFACES TO BE CHEMICALLY CLEANED AND TREATED PRIOR TO COATING WITH PARKER BONERITE AND CHLOROTHENE SOLVENT OR APPROVED EQUALS. POWDER COATING MUST BE A POLYESTER 2000 SERIES, THICKNESS OF 4-5mm BY ELECTROSTATIC PROCESS, OVEN-CURED TO A SMOOTH AND EVEN SURFACE.
3. ALL FENCE POSTS AND RAILS TO BE GALVANIZED SCHEDULE 40 PIPE. THEY MUST CONFORM TO CURRENT SPECIFICATIONS HOT DIPPED ZINC COATED (GALVANIZED) WELDED AND SEAMLESS PIPE FOR ORDINARY USES.
4. ALL REQUIRED FITTINGS AND HARDWARE TO BE OF A SUITABLE ALUMINUM ALLOY OR OF A STEEL DUCTILE IRON. PLASTIC COUPLINGS, FITTINGS OR ANY OTHER PLASTIC COMPONENTS WILL NOT BE ACCEPTED.
5. ALL DIMENSIONS ARE IN MILLIMETERS.
6. NO PROTRUDING BOLTS; CUT BACK AND FILE EDGES.
7. ALL WIRES TO BE TERMINATED SO AS TO BE SAFE FOR CHILDREN.
8. TOUCH UP ANY DAMAGED GALVANIZED COATING AFTER INSTALLATION WITH ZRC COLD GALVANIZING COMPOUND.

1.5m HT. BLACK VINYL CHAIN LINK FENCE AND GATES

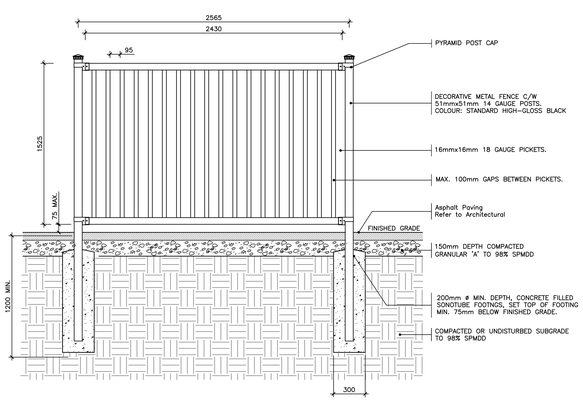
NTS (4)

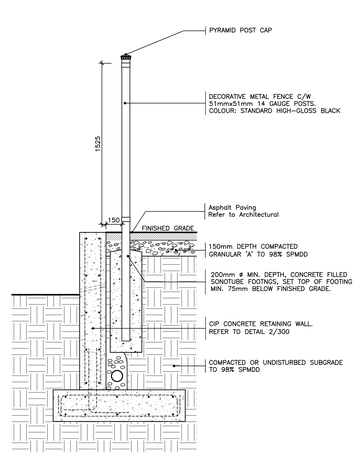


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7. ALL WIRES TO BE TERMINATED SO AS TO BE SAFE FOR CHILDREN.
8. TOUCH UP ANY DAMAGED GALVANIZED COATING AFTER INSTALLATION WITH ZRC COLD GALVANIZING COMPOUND.

1.8m HT. BLACK VINYL CHAIN LINK FENCE

NTS (5)



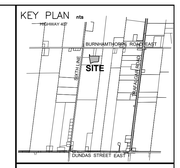


NOTES:
1. BOLT THREADS MUST BE CUT BACK TO MAX. 6mm OR SHROUDED AT ALL LOCATIONS.
2. ALL MEASUREMENTS IN MILLIMETERS UNLESS OTHERWISE NOTED.

1.5m HT. DECORATIVE METAL FENCE

NTS (6)

KEY PLAN nts





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
7	ISSUED FOR TENDER	26 06 05
5	ISSUED FOR COORDINATION	26 03 23
4	ISSUED FOR BUILDING PERMIT	26 03 06
3	ISSUED FOR CLASS 'A' COSTING	26 03 06
2	ISSUED FOR SPA	26 02 12
1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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ASSOCIATION OF LANDSCAPE ARCHITECTS ONTARIO — KELLY V. FERITER — MEMBER

NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

SP

3500 POST ROAD
NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

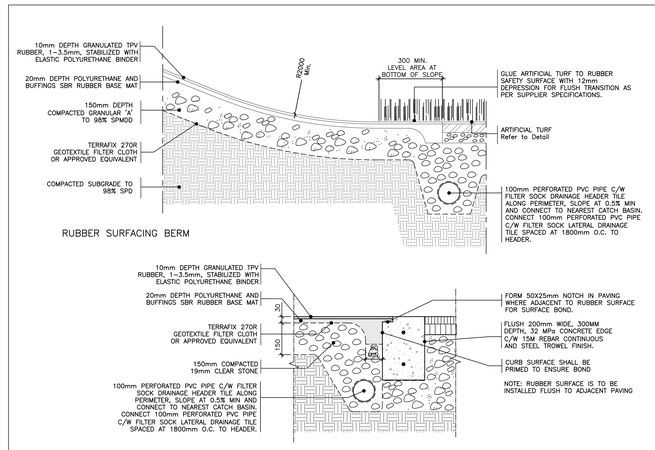
TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD

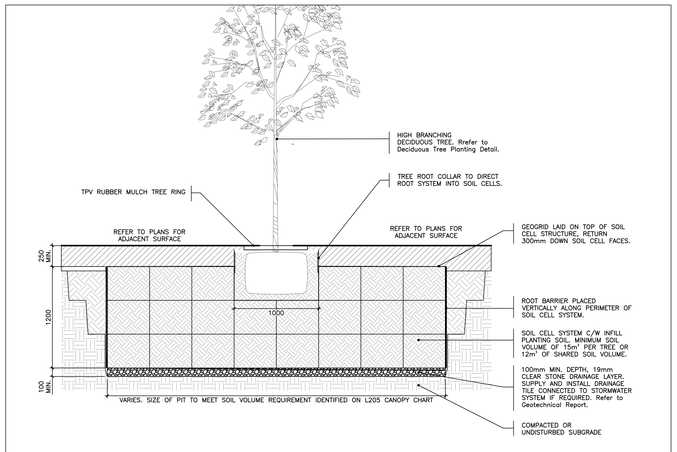
LANDSCAPE DETAILS

FRP inc. landscape architects
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Toronto, M6N 1B9
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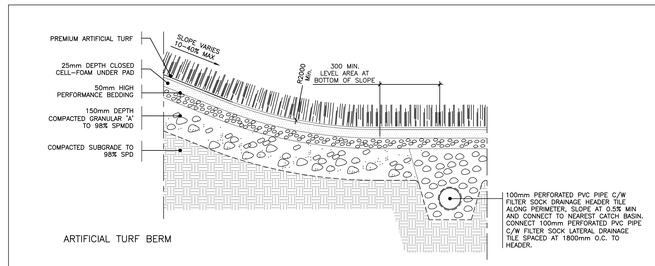
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DATE MAY 2026	
DRAWN KH	DRAWING L301
CHECKED KH	
PRINT DATE	



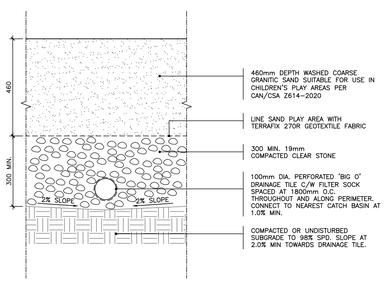
RUBBER PLAY SURFACING 1:10 (1)



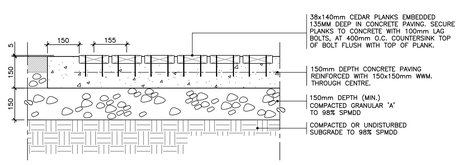
DECIDUOUS TREE WITH TPV COLLAR AND SOIL CELLS NTS (5)



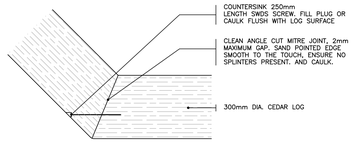
ARTIFICIAL TURF PLAY SURFACING 1:10 (2)



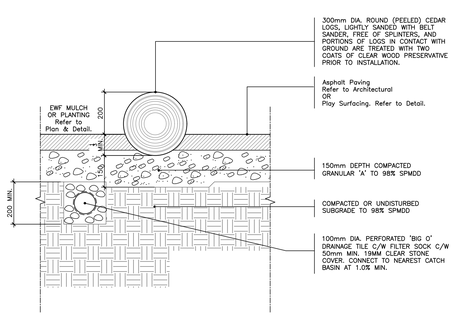
PLAY SAND 1:10 (3)



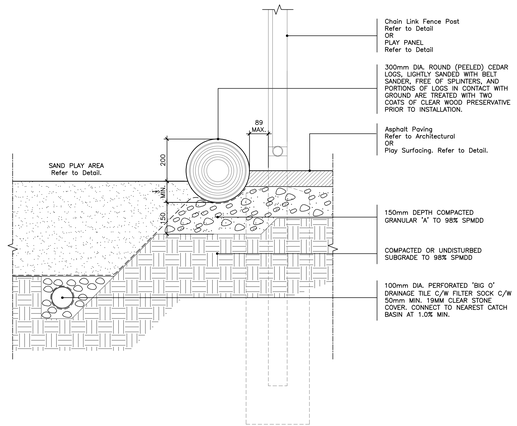
RUMBLE STRIP 1:10 (4)



PLAN VIEW

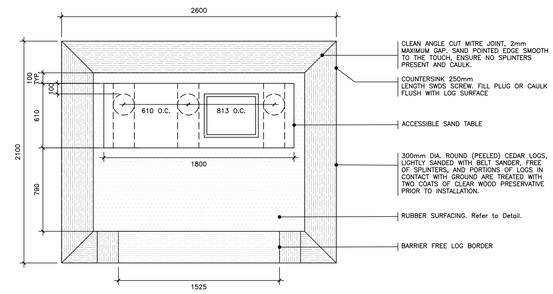


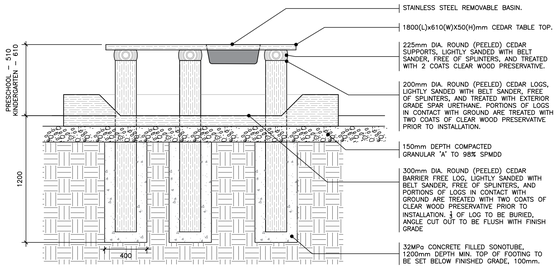
SECTION – LOG EDGING



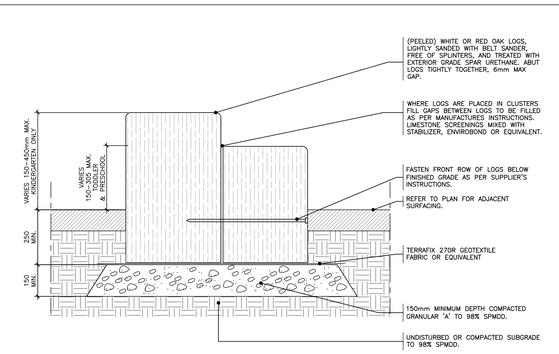
SECTION – SAND PLAY AREA

HORIZONTAL LOG BORDER NTS (6)

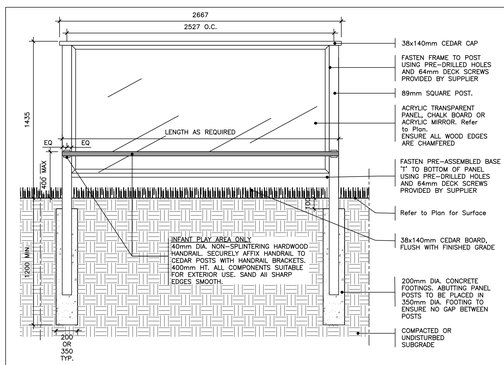




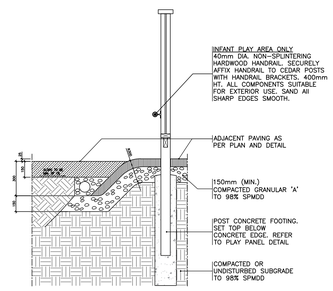
ACCESSIBLE SENSORY TABLE NTS (7)



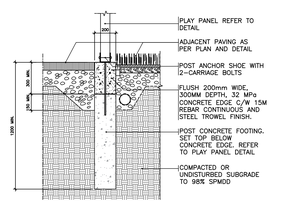
CLUSTER STEPPING LOGS NTS (8)



LONG SECTION VIEW



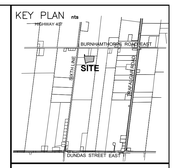
CROSS SECTION VIEW – TYPICAL

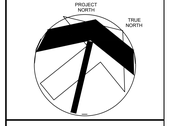


FLUSH CURB FOOTING

PLAY PANEL NTS (9)

KEY PLAN n.t.s





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
7	ISSUED FOR TENDER	26 06 05
5	ISSUED FOR COORDINATION	26 03 23
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SP

3500 POST ROAD
NORTH OAKVILLE, ON

LEGAL DESCRIPTION:
Block 7, Registered Plan 20M-1250 AND Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

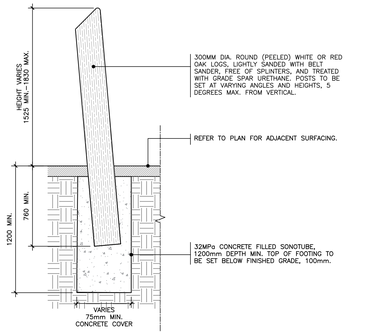
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HALTON CATHOLIC DISTRICT SCHOOL BOARD

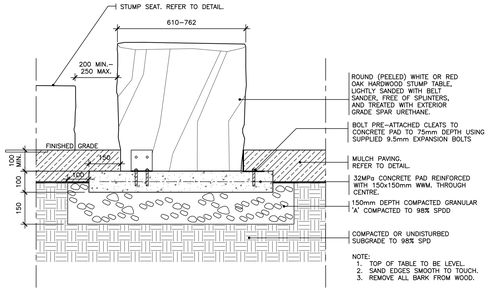
EARLY LEARNING PLAY AREA DETAILS

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landscape.architects
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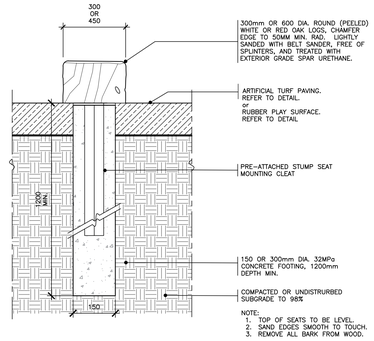
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DATE MAY 2026	
DRAWN KH	DRAWING L320
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PRINT DATE	



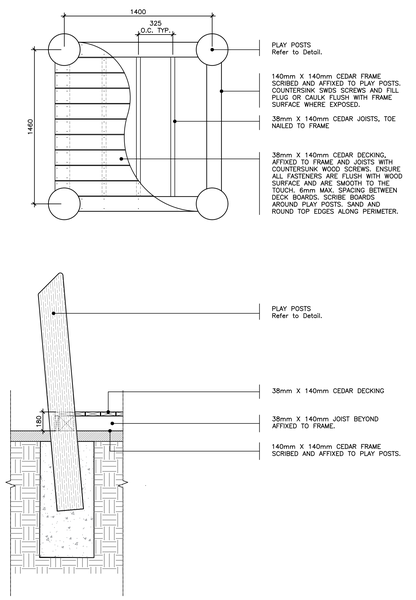
PLAY POST NTS 1



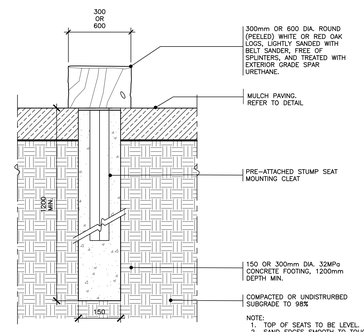
WOOD ACTIVITY TABLE NTS 4



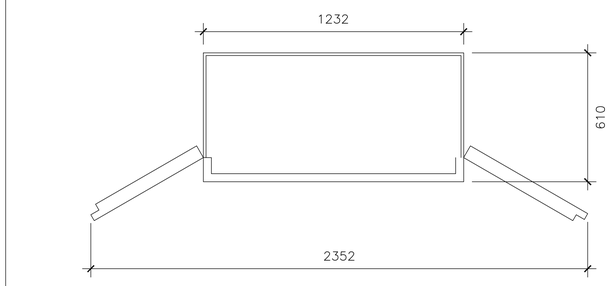
STEPPING LOGS NTS 8

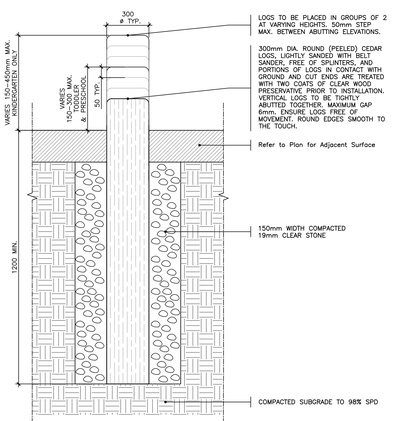


CEDAR DECK NTS 2

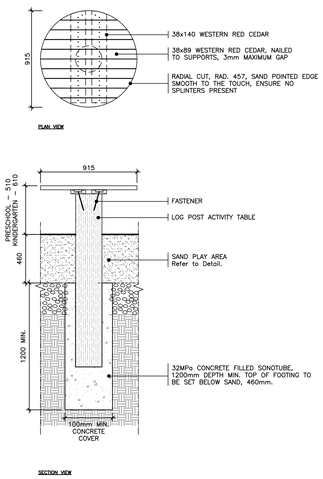


WOOD ACTIVITY SEAT NTS 5

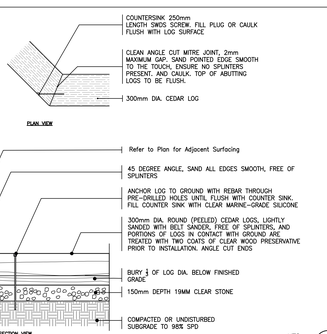




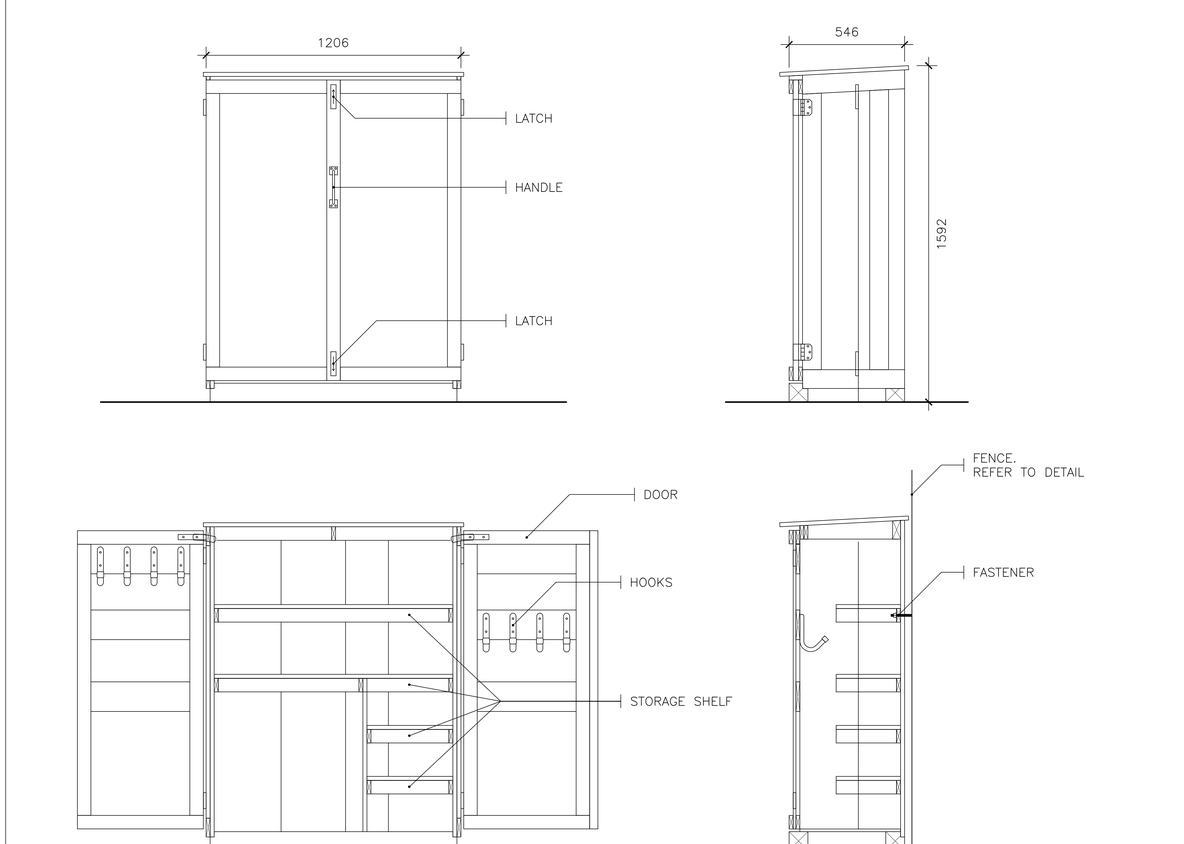
VERTICAL LOG BORDER NTS 3



ACTIVITY TABLE IN SAND NTS 6

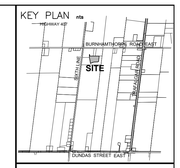


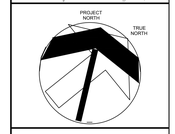
LOG SEATING NTS 7



OUTDOOR STORAGE CABINET NTS 9

KEY PLAN nts





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
7	ISSUED FOR TENDER	26 06 05
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2	ISSUED FOR SPA	26 02 12
1	ISSUED FOR SPA PRE-CONSULT	25 07 03

NO	ISSUED	DATE

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SP

3500 POST ROAD NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

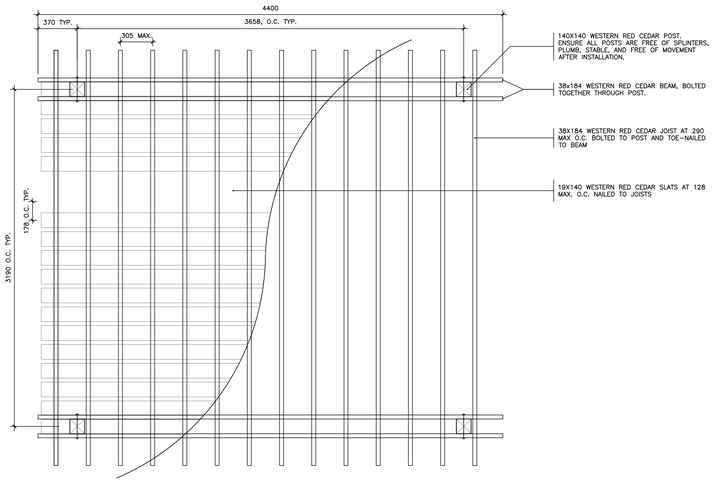
TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD — HCDSB

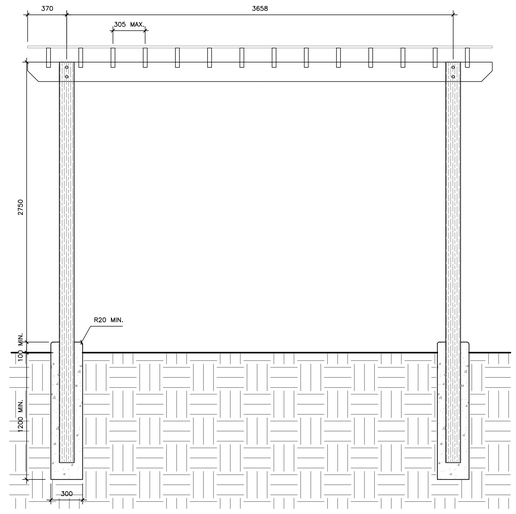
EARLY LEARNING PLAY AREA DETAILS

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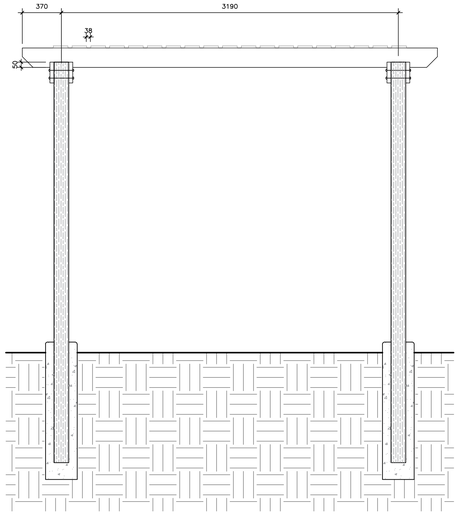
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PROJECT	251592
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CHECKED	KH
DRAWING	L321
PRINT DATE	



PLAN VIEW



LONG SECTION VIEW



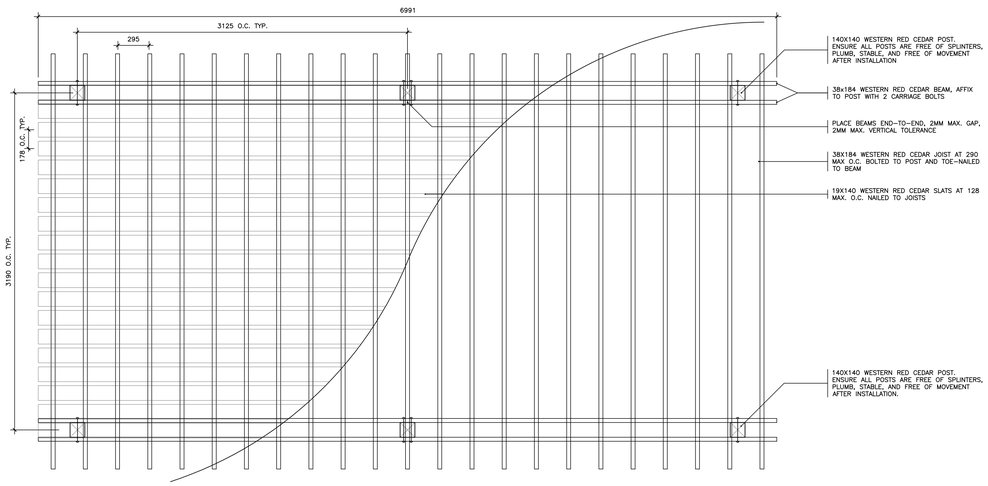
CROSS SECTION VIEW

NOTE:
1. ALL HARDWARE TO BE STAINLESS STEEL.
2. DETAIL DRAWINGS FOR LANDSCAPE STRUCTURES ARE SCHEMATIC IN NATURE TO INDICATE DESIGN INTENT. CONTRACTOR TO PROVIDE SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO TO INDICATE PROPER CONSTRUCTION IN COMPLIANCE WITH ALL LOCAL CODES INCLUDING, BUT NOT LIMITED TO WIND RATINGS, SNOW LOAD BEARING, FROST PROTECTED FOOTINGS, SPACING OF POSTS IN ACCORDANCE WITH ONTARIO BUILDING CODE.

10'x12' SHADE PERGOLA

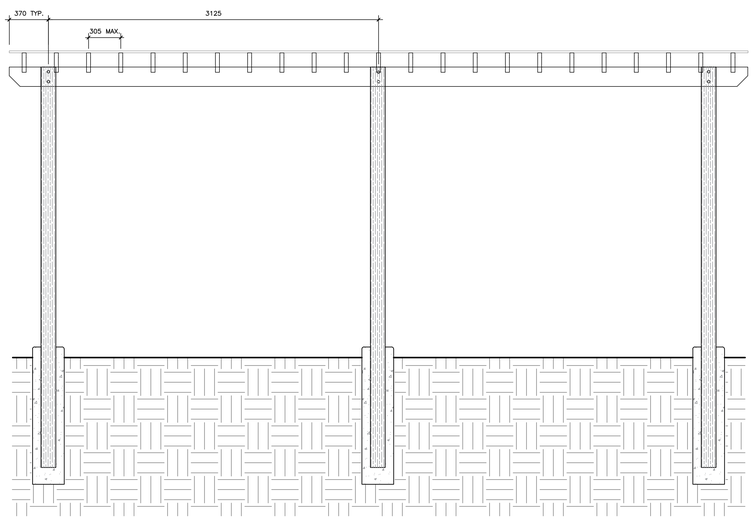
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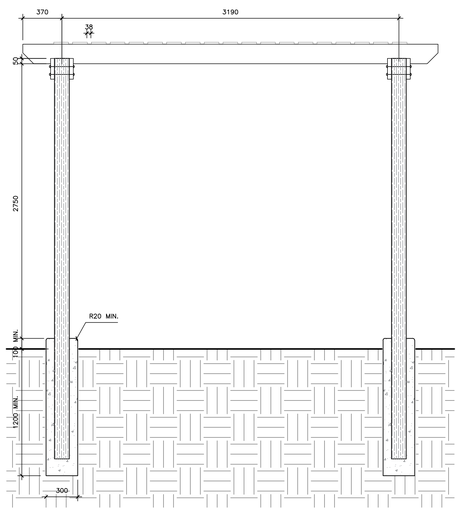


NOTE:
1. ALL HARDWARE TO BE STAINLESS STEEL.
2. DETAIL DRAWINGS FOR LANDSCAPE STRUCTURES ARE SCHEMATIC IN NATURE TO INDICATE DESIGN INTENT. CONTRACTOR TO PROVIDE SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO TO INDICATE PROPER CONSTRUCTION IN COMPLIANCE WITH ALL LOCAL CODES INCLUDING, BUT NOT LIMITED TO WIND RATINGS, SNOW LOAD BEARING, FROST PROTECTED FOOTINGS, SPACING OF POSTS IN ACCORDANCE WITH ONTARIO BUILDING CODE.

PLAN VIEW



LONG SECTION VIEW



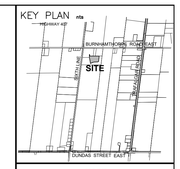
CROSS SECTION VIEW

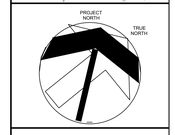
10'x20' SHADE PERGOLA

NTS

2

KEY PLAN





NO	REVISIONS	DATE
9	ISSUED FOR TENDER	26 11 04
8	ISSUED FOR SPA	26 07 21
7	ISSUED FOR TENDER	26 06 05
5	ISSUED FOR COORDINATION	26 03 23
4	ISSUED FOR BUILDING PERMIT	26 03 06
3	ISSUED FOR CLASS 'A' COSTING	26 03 06
2	ISSUED FOR SPA	26 02 12
1	ISSUED FOR SPA PRE-CONSULT	25 07 03
NO	ISSUED	DATE

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
RILEY V.V. HUNTER
MEMBER

NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL

SP

3500 POST ROAD
NORTH OAKVILLE, ON

LEGAL DESCRIPTION:

Block 7, Registered Plan 20M-1250 AND
Block 11, Registered Plan 20M-1302
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

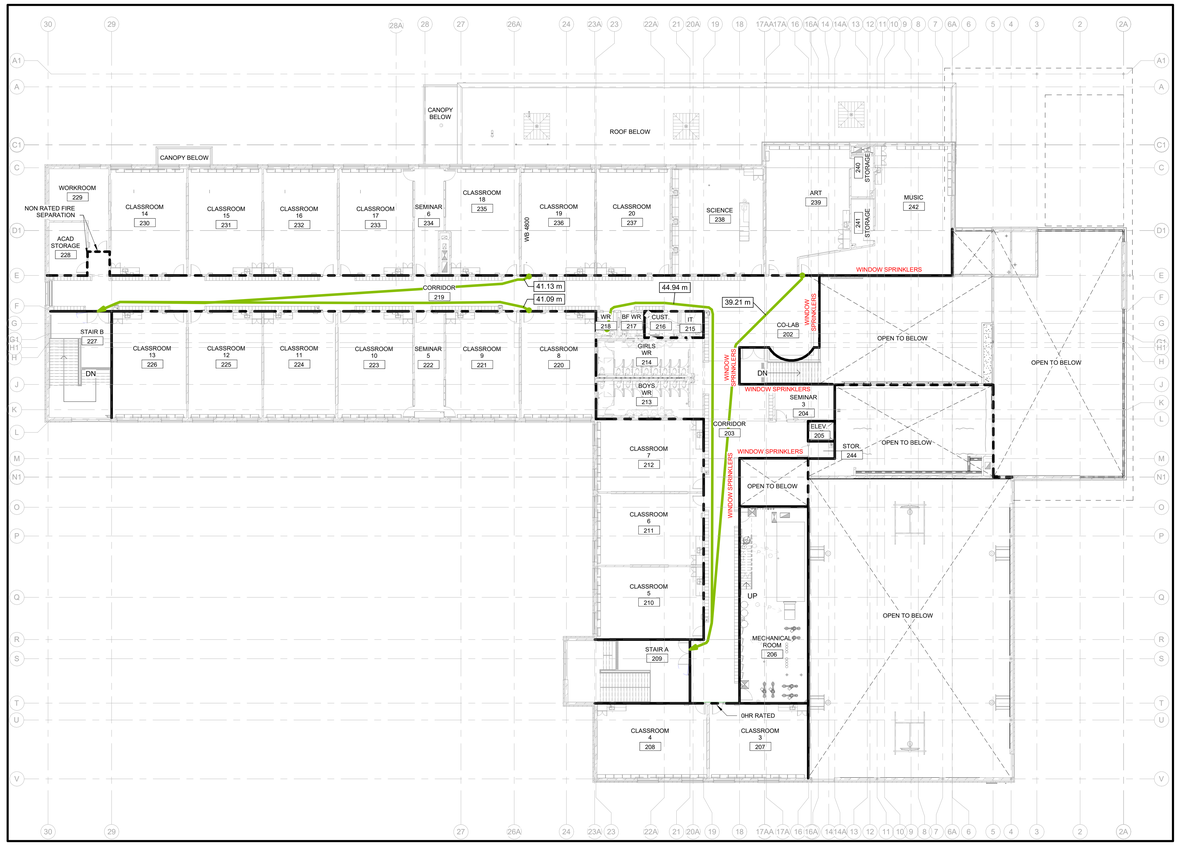
TENDER NO. RFT

HALTON CATHOLIC DISTRICT SCHOOL BOARD

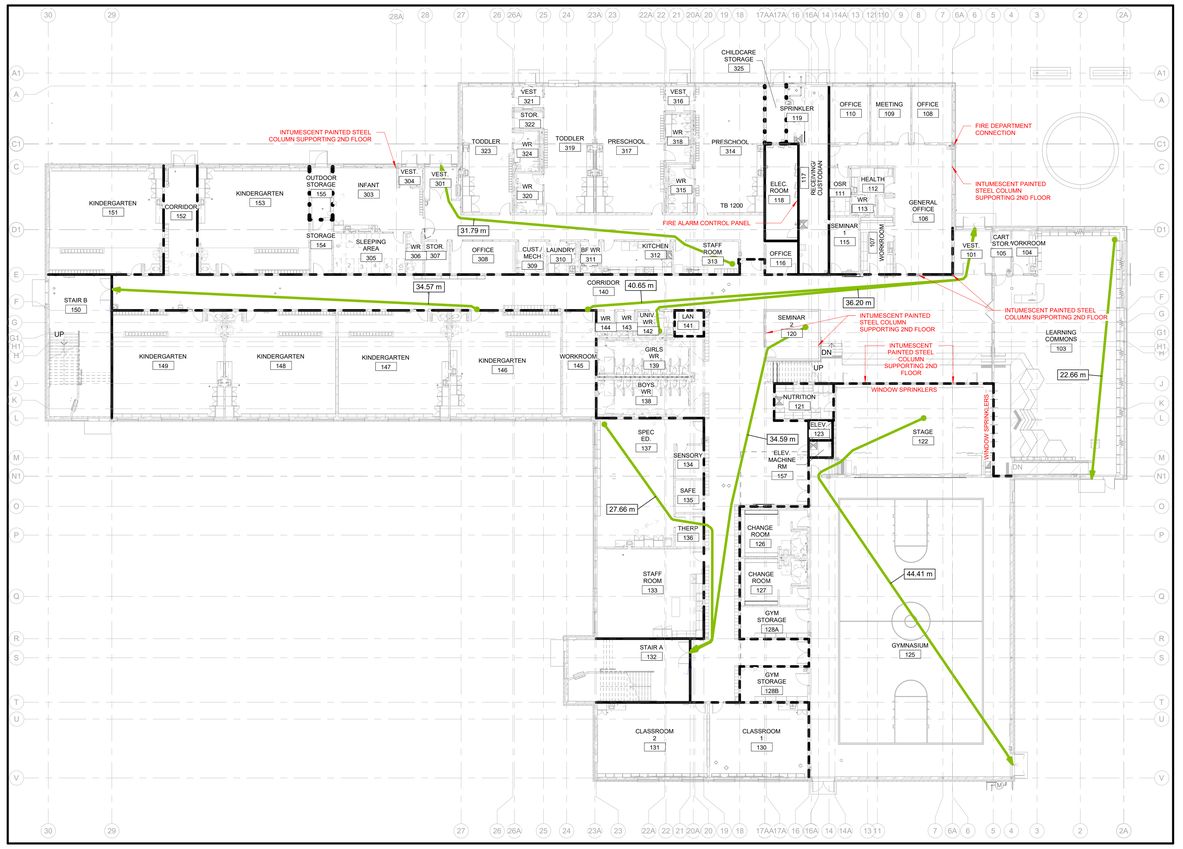
EARLY LEARNING PLAY AREA DETAILS

FRP inc.
landscape.architects
1877 Davenport Road
Toronto, M6N 1B9
www.frpinc.ca

SCALE: AS SHOWN	PROJECT: 251592
DATE: MAY 2026	
DRAWN: KH	DRAWING: L322
CHECKED: KH	
PRINT DATE:	



2 / A01 *FIRE SEPARATION - SECOND FLOOR*
SCALE: 1 : 200



1 / A01 *FIRE SEPARATIONS - GROUND FLOOR*
SCALE: 1 : 200

1	PROJECT DESCRIPTION:	2 STOREY PUBLIC SCHOOL	■ NEW	■ PART 3	
			□ ADDITION	□ PART 11	
		□ CHANGE OF USE	□ ALTERATION		
1a	PROJECT NAME & ADDRESS:	NORTH OAKVILLE #3 CATHOLIC ELEMENTARY SCHOOL NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON			
2	MAJOR OCCUPANCY(S):	GROUP A, DIVISION 2			
3	BUILDING AREA (SQ.M.):	EXIST. N/A	NEW 4,202	TOTAL 4,202	
4	GROSS AREA (SQ.M.):	EXIST. N/A	NEW 6,735	TOTAL 6,735	
5	NO. OF STOREYS ABOVE GRADE:	2	BELOW GRADE: 0		
6	NUMBER OF STREETS/ACCESS ROUTES:	1			
7	BUILDING CLASSIFICATION:	3.2.2.24 Group A, Division 2, up to 6 storeys, Any Area, Sprinklered			
8	SPRINKLER SYSTEM PROPOSED:	■ ENTIRE BUILDING □ BASEMENT ONLY □ IN LIEU OF ROOF RATING □ NOT REQUIRED			
9	STANDPIPE REQUIRED:	□ YES	■ NO		
10	FIRE ALARM REQUIRED:	■ YES	□ NO		
11	WATER SERVICE/SUPPLY IS ADEQUATE:	■ YES	□ NO		
12	HIGH BUILDING:	□ YES	■ NO		
13	PERMITTED CONSTRUCTION:	□ COMBUSTIBLE	■ NON COMBUSTIBLE	□ BOTH	
	ACTUAL CONSTRUCTION:	□ COMBUSTIBLE	■ NON COMBUSTIBLE	□ BOTH	
14	MEZZANINE(S) AREA (SQ.M.):	N/A			
15	OCCUPANT LOAD BASED ON	□ sq.m./PERSON	■ DESIGN OF BUILDING		
	BASEMENT	OCCUPANCY N/A	LOAD N/A PERSONS	SEE ATTACHED CHARTS FOR DETAILED CALCS.	
	1ST FLOOR	OCCUPANCY A2	LOAD 343 PERSONS		
	2ND FLOOR	OCCUPANCY A2	LOAD 546 PERSONS		
16	BARRIER-FREE DESIGN:	■ YES	□ NO		
17	HAZARDOUS SUBSTANCES:	□ YES	■ NO		
18	REQUIRED FIRE RESISTANCE RATING (FRR)	HORIZONTAL ASSEMBLIES FRR (HOURS)		LISTED DESIGN NO. OR DESCRIPTION (SG-2)	
		FLOOR(S) 1	HOURS	2ND FLOOR IS 250mm THICK PRECAST CONCRETE SLAB WITH 50mm OF CONCRETE TOPPING	
		ROOF 0	HOURS	OBC 3.2.2.17 SPRINKLERS IN LIEU OF ROOF RATING OBC 3.2.2.16 HEAVY TIMBER ROOF PERMITTED	
		MEZZANINE N/A	HOURS	N/A	
		FRR OF SUPPORTING MEMBERS		LISTED DESIGN NO. OR DESCRIPTION (SG-2)	
		FLOOR(S) 1	HOURS	UL DESIGN NO. J957: spray fireproofing to all exposed steel members supporting 2nd floor. All loadbearing walls are 140 or 190 non-combustible masonry block and have a fire-resistance rating of at least 1 hour. All steel columns supporting the second floor have a fire resistance rating per SB 2.6.1.F type 'X' gypsum board wrap or SB 2.6.6. concrete filled column.	
		ROOF 0	HOURS	N/A	
		MEZZANINE 1	HOURS	UL DESIGN NO. F818: spray fireproofing to all exposed steel members and deck at mezzanine.	
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS (NON-COMBUSTIBLE)				

WALL	AREA OF EBF (sq.m.)	L.D. (m)	L/H OR H/L	PERMITTED MAX. % OF OPENINGS	PROPOSED % OF OPENINGS
NORTH	N/A - this wall exceeds maximum limiting distance from the property line in a sprinklered building				
SOUTH	235	6		52	26
EAST	237	5		40	37
WEST	N/A - this wall exceeds maximum limiting distance from the property line in a sprinklered building				

STUDENT OCCUPANT LOAD (FOR W/C COUNT ONLY)

ROOM TYPE	NUMBER OF ROOMS	OCC. LOAD PER ROOM	TOTAL OCC. LOAD	NOTES
GROUND FLOOR				
STANDARD CLASSROOM	2	26	52	
KINDERGARTEN CLASSROOM	6	26	156	
SPECIAL EDUCATON CLASSROOM	1	26	26	
LEARNING COMMONS	1	59	0	(1)
GENERAL PURPOSE ROOM	1	370	0	(1)
CHILD CARE CLASSROOM				
PRESCHOOL	2	24	48	(2)
TODDLER	2	15	30	(2)
INFANT	1	10	10	(2)
SECOND FLOOR				
STANDARD CLASSROOM	18	26	468	
ART CLASSROOM	1	26	26	
SCIENCE CLASSROOM	1	26	26	
MUSIC ROOM	1	26	26	
TOTAL OCCUPANT LOAD			**780**	
FUTURE PORTABLES	**18**	**26**	**468**	
TOTAL OCCUPANT LOAD - WITH PORTABLES			**1248**	

NOTE (1) - OCCUPANT LOAD OF THIS ROOM IS ALREADY INCLUDED IN TEACHING AREA OCCUPANT LOAD.

NOTE (2) - OCCUPANT LOAD OF THIS ROOM NOT INCLUDED AS CHILD CARE IS SELFCONTAINED AREA FROM MAIN SCHOOL. CHILD CARE FIXTURES MEET O. REG. 137/15

1252 (OCC. LOAD) DIVIDED BY 2 = 616 GIRLS & 616 BOYS
616 DIV. BY 30 BOYS = 20.5 **(21) BOYS WASHROOMS REQUIRED**
616 DIV. BY 26 GIRLS = 23.7 **(24) GIRLS WASHROOMS REQUIRED**

STAFF OCCUPANT LOAD (FOR W/C COUNT ONLY)

ROOM TYPE (EXISTING)	NUMBER OF ROOMS	OCC. LOAD PER ROOM	TOTAL OCC. LOAD	NOTES
GROUND FLOOR				
STANDARD CLASSROOM	2	1	2	
KINDERGARTEN CLASSROOM	6	2	12	
SPECIAL EDUCATION CLASSROOM	1	1	1	
LEARNING COMMONS	1	1	1	
GENERAL PURPOSE ROOM	1	0	0	(1)
CHILD CARE CLASSROOM				
PRESCHOOL	2	3	6	(2)
TODDLER	2	3	6	(2)
INFANT	1	3	3	(2)
ADMINISTRATION AREAS:				
PRINCIPAL	1	1	1	
VICE PRINCIPAL	1	1	1	
COUNSELOR	1	1	1	
RECEPTIONIST	1	2	2	
CUSTODIAN	1	2	2	
SECOND FLOOR				
STANDARD CLASSROOM	18	1	18	
ART CLASSROOM	1	1	1	
SCIENCE CLASSROOM	1	1	1	
MUSIC ROOM	1	1	1	
TOTAL OCCUPANT LOAD			**44**	
FUTURE PORTABLES	**18**	**1**	**18**	
TOTAL OCCUPANT LOAD - WITH PORTABLES			**56**	

NOTE (1) - OCCUPANT LOAD OF THIS ROOM IS ALREADY INCLUDED IN TEACHING AREA OCCUPANT LOAD.

NOTE (2) - OCCUPANT LOAD OF THIS ROOM NOT INCLUDED AS CHILD CARE IS SELFCONTAINED AREA FROM MAIN SCHOOL. CHILD CARE FIXTURES MEET O. REG. 137/15

56 (OCC. LOAD) DIVIDED BY 2 = 36 WOMEN & 35 MEN
28 DIV. BY 30 BOYS = 0.93 (1) **MENS WASHROOM FIXTURE REQUIRED**
28 DIV. BY 26 GIRLS = 1.00 (1) **WOMENS WASHROOM FIXTURE REQUIRED**

LAVATORY COUNT

OBC 3.7.4.2.(5)

WASHROOM TYPE	NO. OF WATER CLOSETS PROVIDED	NO. OF LAVATORIES
BOY'S WASHROOM	18	(4) BRADLEY - 3-SPRAY
GIRL'S WASHROOM	18	(4) BRADLEY - 3-SPRAY
KINDERGARTEN	6	6
UNISEX (STAFF)	3	3
UNIVERSAL WASHROOM	1	1
BARRIER FREE WASHROOM	2	2
CHANGE ROOMS	2	2
CHILD CARE WASHROOMS	11	7 LAVS. - 2 BRADLEYS
CHILD CARE BARRIER-FREE WR (UNISEX STAFF)	1	1

WATER CLOSET COUNT

OBC 3.7.4.3.(14)

WASHROOM TYPE	NO. OF WATER CLOSETS
BOY'S WASHROOMS	18
GIRL'S WASHROOMS	18
KINDERGARTEN WASHROOM	6
CHANGE ROOM WASHROOMS	2
UNISEX WASHROOMS (STAFF)	3
UNIVERSAL WASHROOM	1
BARRIER-FREE WASHROOM	2
CHILD CARE WASHROOMS	11
CHILD CARE BARRIER-FREE WR (UNISEX STAFF)	1

PROJECT NORTH
TRUE NORTH

FIRE SEPARATION LEGEND

- NON RATED FIRE SEPARATION
- 30 MIN FIRE SEPARATION
- 1 HOUR FIRE SEPARATION
- 2 HOUR FIRE SEPARATION
- PATH OF TRAVEL

1. NEW STRUCTURAL STEEL SUPPORTING 1ST FLOOR AND MEZZANINE (COLUMNS AND BEAMS) TO BE SPRAY FIRE-PROOFED TO MEET A 1-HOUR FIRE-RESISTANCE RATING

2. THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE FIRE SEPARATION PLANS, GENERAL DRAWING NOTES AND APPLICABLE SPECIFICATION SECTION (IE. FIRE-PROOFING, GYPSUM BOARD ETC.)

3. EXTEND ALL INTERIOR PARTITIONS TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED OR INDICATED. REFER TO OBC DATA MATRIX, FIRE SEPARATION PLANS AND BUILDING SECTIONS FOR LOCATION OF FIRE RATED PARTITIONS, FLOORS AND FIRE SEPARATIONS.

4. COMPLY FULLY WITH REQUIREMENTS LISTED UNDER THE SPECIFIC DESIGN No. IN THE U.L.C. LIST OF EQUIPMENT AND MATERIALS, CURRENT VOLUME.

5. INDICATED FIRE RESISTANCE RATING IS STRICTLY OBTAINED FROM THE CONCRETE SLAB MIN. CONC. SLAB THICKNESS (REFER TO OBC SUPPLEMENTARY GUIDLINES-SG-2: FIRE PERFORMANCE RATINGS TABLE 2.2.1.A)

6. FOR CONCRETE SLABS REQUIRED TO HAVE FRR, MAINTAIN MIN CONC COVER OVER REINFORCEMENT ACCORDING TO OBC :SUPPLEMENTARY GUIDELINES SG-2 -FIRE-PERFORMANCE RATINGS, TABLE 2.2.1.B.

7. REFER TO SPECIFICATIONS FOR LOCATIONS OF WATERMOULD RESISTANT GYPSUM BOARD AND FOR ABUSE RESISTANT GYPSUM BOARD

TABLE B - FIRE RESISTANCE RATINGS FOR REINFORCED PRESTRESSED CONCRETE FLOORS AND ROOF SLABS
(PER OBC 2024 SB-2 -TABLE 2.2.1.A)

ACTUAL EQUIVALENT THICKNESS (mm)	SLAB DEPTH	REQ. EQ.T. (mm)	TYPE 'X' CONC	FIRE RESIST. RATING
136	250mm	87		1 HR

TABLE A - FIRE RESISTANCE RATINGS FOR CONCRETE BLOCK PARTITIONS
(PER OBC 2024 SB-2 -TABLE 2.1.1)

ACTUAL EQUIVALENT THICKNESS (mm)	CONCRETE BLOCK OPTIONS	REQ. EQ.T. (mm)	LWC	NWC	FIRE RESIST. RATING
106	190mm 75% SOLID NORM WEIGHT	88	73		1 HR
81	140mm HOLLOW NORM WEIGHT				
66	90mm HOLLOW LIGHT WEIGHT				
74	90mm 75% SOLID NORM WEIGHT				

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
02	ISSUED FOR BUILDING PERMIT	26/03/23
01	ISSUED FOR 85% COST ESTIMATE	26/03/09

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADOUCEUR
LICENCE
6053
CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

FIRE SEPARATION & OBC MATRIX

HOSSACK & ASSOCIATES ARCHITECTS
4-2750 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8284 Fax (905) 607-8285

SCALE	PROJECT
As indicated	24106
DATE	
NOV 2026	
DRAWN	DRAWING
RS	
CHECKED	A01
PL	
PRINT DATE	2026-11-05 10:05:22 AM
REVIT FILE	T:\2019\1512102\Revit\RVT

PROJECT NORTH

TRUE NORTH

ABBREVIATION LEGEND

A	ACTIVE DOOR LEAF
ACP	ALUMINUM COMPOSITE PANEL
AD	ARCHITECTURAL DETAILS
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
BB	BULLETIN BOARD - REFER TO SPECS
BD	BOARD
BF	BOTTLE FILLER
B/F	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFP-L	BARRIER FREE PUSH BUTTON LOCK
BH	BREAK-AWAY HOOK
BV	BRICK VENT
CJ	CONTROL JOINT
CH	CABINET HEATER (RECESSED)
CH/r	CABINET HEATER (SEMI-RECESSED)
CHT	CHANGE TABLE STATION REFER TO SPEC
CH+S	COAT RACK AND SHELF
CS	CONVENIENCE SHELF
CW	COMPLETE WITH
CWT	CERAMIC WALL TILE
DF	DRINKING FOUNTAIN
DW	DISHWASHER
EM	ELECTROMAGNETIC HOLD OPEN DEVICE
EP	ELECTRICAL PANEL. REF. ELEC. DWGS.
EPC	EMERGENCY PULL CORD
EW	EYE WASH STATION
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FRGB	FIRE RATED GYPSUM BOARD
FSS	FOLDING SHOWER SEAT
GALV	GALVANIZED
GYP	GYPSUM BOARD
GB	GRAB BAR
GBL	GRAB BAR "L" SHAPE
GBF	GRAB BAR "FOLDING"
GM	GAS METER
HP	HAND DRYER
HL	HANDICAP LOCKER
HM	HOLLOW METAL
HSS	HOLLOW STRUCTURAL STEEL
IPS	INTERIOR SIGNAGE PANEL
JS	JANITORIAL SHELF
LF	LIGHT FIXTURE
LKRS	LOCKERS
M	MIRROR
MC	MIRROR IN CHILD CARE ROOMS
ML	LONG MIRROR
MLH	LONG MIRROR - HORIZONTAL
MP	MODULAR CONTROL PANEL
MRS	MOTORIZED ROLLER SHADE
MS	MOP SINK
NIC	NOT IN CONTRACT
PAS	PUBLIC ANNOUNCEMENT SYSTEM
PREFIN	PREFINISHED
PCT	PRIVACY CURTAIN AND TRACK
PMP-1	PERFORATED METAL PANEL
PTD	PAPER TOWEL DISPENSER
PTW	PAPER TOWEL + WASTE RECEPTACLE
RD	ROOF DRAIN
REINF	REINFORCING
RF	REFRIGERATOR
RHM	REMOVABLE HARDWARE MULLION
RS	ROLLER SHADE REFER TO SPECS
RWL	RAIN WATER LEADER
SC	HOLLOW METAL WINDOW SCREEN
SD	SOAP DISPENSER
SFS	STRUCTURAL FROST SLAB
SIM	SIMILAR
SN	SANITARY NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
SR+C	SHOWER ROD + CURTAIN
STB	SLOPED TACKBOARD
SH	SHANDREL PANEL
TB	TACKBOARD
TD	TOILET PAPER DISPENSER
TM	TILT MIRROR
TWB	TOWEL BAR
VFS	VERTICAL FIRESTOP
WB	WHITEBOARD
WD	WASHER/ DRYER NIC
WM	WIREMOLD
WR	WASHROOM

NO.	DESCRIPTION	DATE
04	ISSUED FOR TENDER	26/11/04
03	ISSUED FOR BUILDING PERMIT	26/03/23
02	ISSUED FOR 85% COST ESTIMATE	26/03/06
01	ISSUED FOR SITE PLAN APLICATION	26/02/12

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ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADOUCEUR
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CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

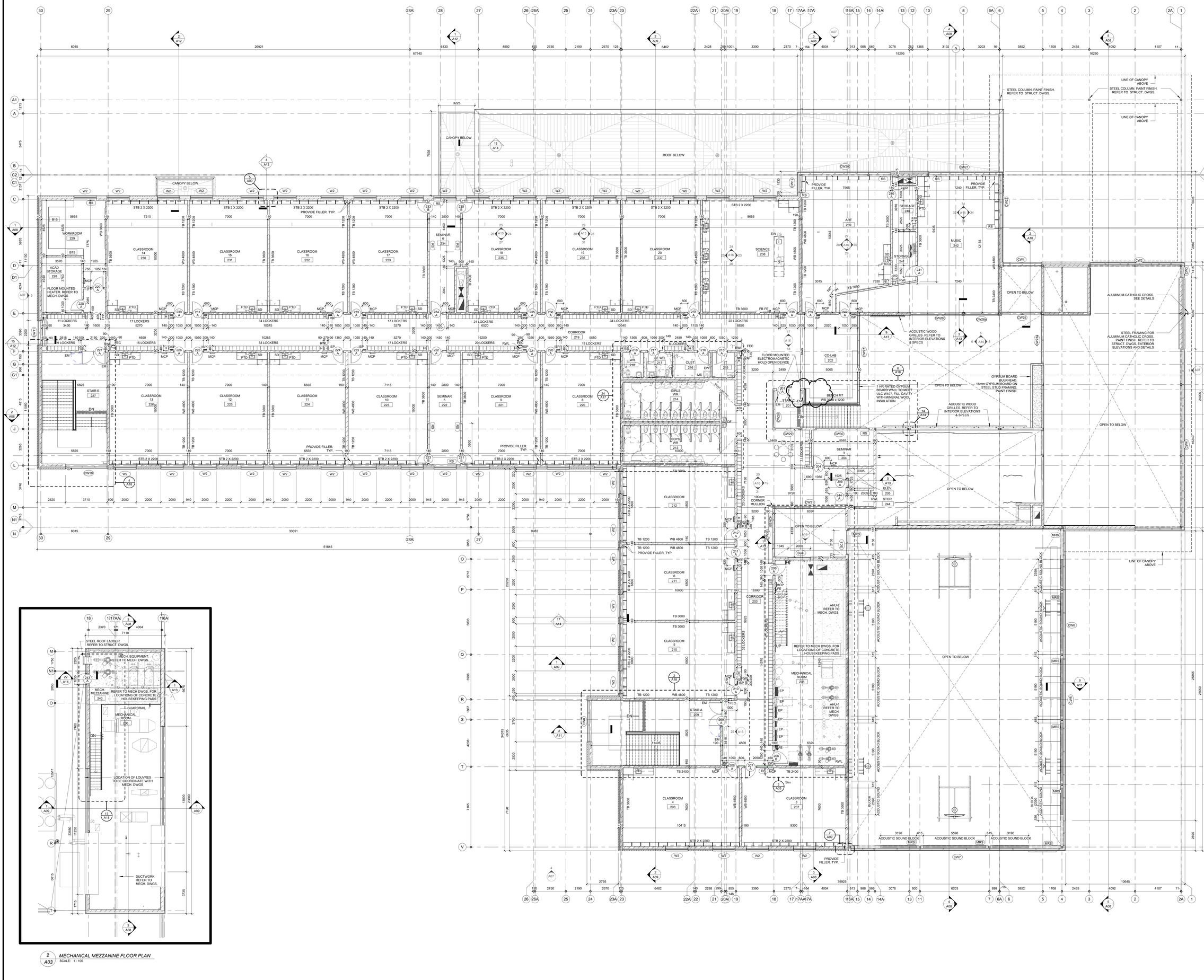
3500 POST RD.
OAKVILLE, ON

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GROUND FLOOR PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2750 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-8284 Fax: (905) 607-8285

SCALE 1 : 100	PROJECT 24106
DATE NOV 2026	
DRAWN RS	DRAWING A02
CHECKED PL	
PRINT DATE	2026-11-05 10:05:42 AM
REVIT FILE	T:\2019\1512102\Revit\.RVT



2 A03 MECHANICAL MEZZANINE FLOOR PLAN
SCALE: 1 : 100

PROJECT NORTH
TRUE NORTH

ABBREVIATION LEGEND

A	ACTIVE DOOR LEAF
ACP	ALUMINUM COMPOSITE PANEL
AD	ARCHITECTURAL DETAILS
AFF	ABOVE FINISHED FLOOR
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GYP	GYPSUM BOARD
GB	GRAB BAR
GBL	GRAB BAR "L" SHAPE
GBF	GRAB BAR "FOLDING"
GM	GAS METER
HD	HAND DRYER
HL	HANDICAP LOCKER
HM	HOLLOW METAL
HSS	HOLLOW STRUCTURAL STEEL
IPS	INTERIOR SIGNAGE PANEL
JS	JANITORIAL SHELF
LF	LIGHT FIXTURE
LKRS	LOCKERS
M	MIRROR
MC	MIRROR IN CHILD CARE ROOMS
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REINF	REINFORCING
RF	REFRIGERATOR
RHM	REMOVABLE HARDWARE MULLION
RS	ROLLER SHADE REFER TO SPECS
RWL	RAIN WATER LEADER
SC	HOLLOW METAL WINDOW SCREEN
SD	SOAP DISPENSER
SFS	STRUCTURAL FROST SLAB
SIM.	SIMILAR
SN	SANITARY NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
SR+C	SHOWER ROD + CURTAIN
STB	SLIDING TACKBOARD
SP	SPANDREL PANEL
TB	TACKBOARD
TD	TOILET PAPER DISPENSER
TM	TILT MIRROR
TWB	TOWEL BAR
VFS	VERTICAL FIRESTOP
WB	WHITEBOARD
W/D	WASHER/ DRYER NIC
WM	WIREMOLD
WR	WASHROOM

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NOV. 5/26
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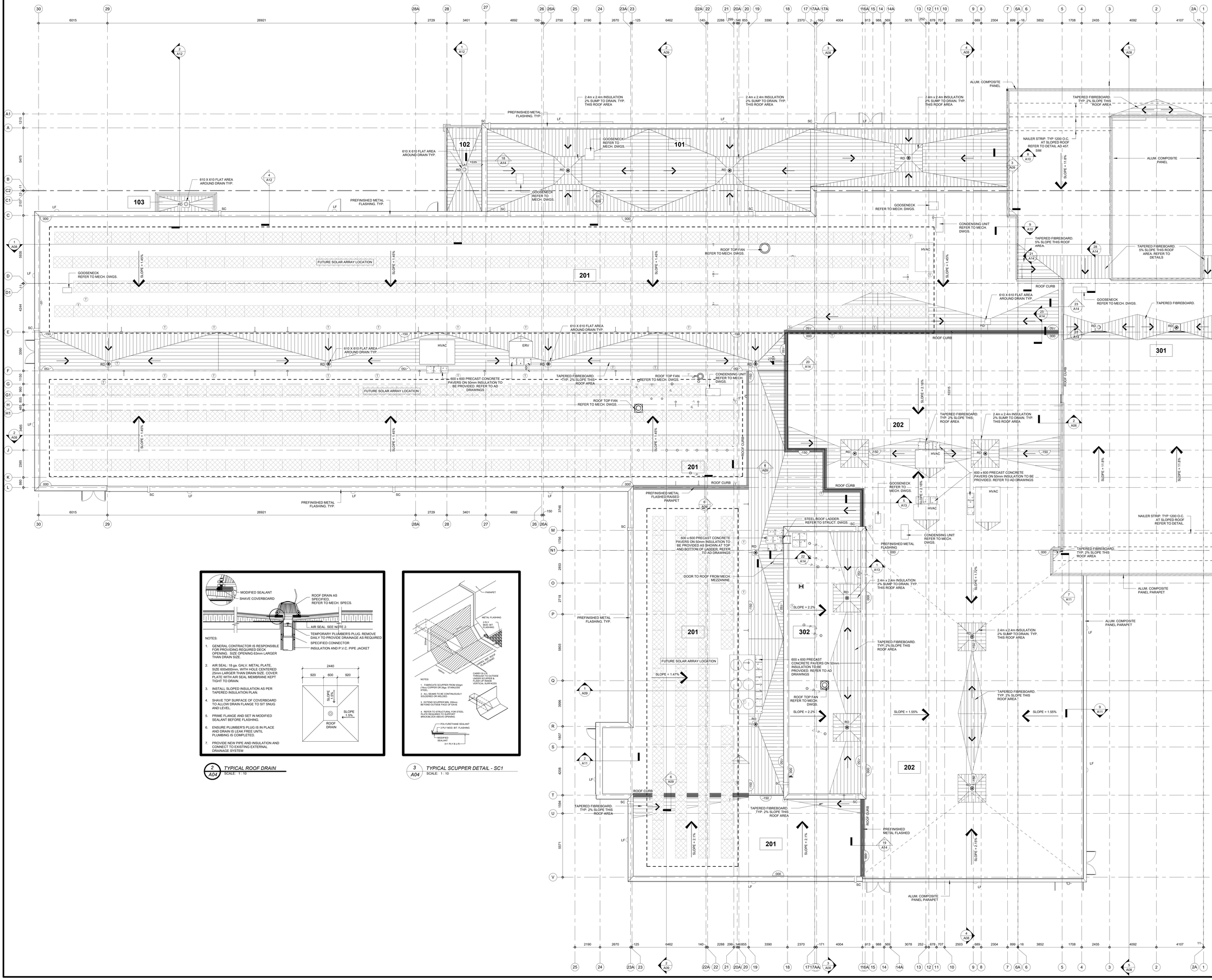
North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

SECOND FLOOR AND MECHANICAL MEZZANINE PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2145 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 1M8
Tel (905) 607-6284 Fax (905) 607-6090

SCALE	1 : 100
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PROJECT	24106
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2/A04 *TYPICAL ROOF DRAIN*
SCALE: 1 : 10

3/A04 *TYPICAL SCUPPER DETAIL - SC1*
SCALE: 1 : 10

PROJECT NORTH
TRUE NORTH

ROOF PLAN LEGEND

- INSULATION SUMP TAPERED TO DRAIN. REFER TO SPECIFICATIONS FOR MATERIALS. REFER TO A05 & A06 FOR SIZES AND LOCATIONS.
- TAPERED FIBER BOARD TO DRAIN
- ROOF DRAIN
- DIRECTION OF SLOPE
- 101 — ROOF INDICATOR
- SC — Scupper 220mm L x 100mm H REFER TO DETAIL IN AD BINDER
- 000 — ROOF SLOPE INDICATOR (mm)
- ROOF CURB
- FUTURE SOLAR ARRAY

NOTES:

ROOF SLOPES TO BE TYPICAL 1.5% MINIMUM. REFER TO STRUCTURAL DRAWINGS

REFER TO MECHANICAL DRAWINGS FOR DETAILS ON MECH. UNITS AND PENETRATIONS NOTED ON THIS PAGE. NOT ALL PENETRATIONS MAY BE SHOWN ON THIS DRAWINGS.

ENSURE SCUPPERS ARE NOT CONSTRUCTED DIRECTLY ABOVE WINDOWS TYP. REFER TO EXTERIOR ELEVATIONS

ALL TAPERED INSULATION CRICKETS AND BACKSLOPES TO HAVE MIN. 2% FINISHED SLOPE UNLESS OTHERWISE NOTED.

REFER TO STRUCTURAL DRAWINGS FOR EXTENT OF PRECAST ROOF STRUCTURE WHERE IT MEETS JOIST STRUCTURE.

ALL ROOF TOP UNITS TO BE MIN. 1830mm FROM ANY ROOF EDGE

PROVIDE TAPERED INSULATION CRICKETS AROUND MECHANICAL CURBS TO ENSURE POSITIVE SLOPE TO DRAIN

REFER TO SPECIFICATION SECTION 07 50 90 FOR ROOF ASSEMBLY CONSTRUCTION

NO.	DESCRIPTION	DATE
04	ISSUED FOR TENDER	26/11/04
03	ISSUED FOR BUILDING PERMIT	26/03/23
02	ISSUED FOR 85% COST ESTIMATE	26/03/09
01	ISSUED FOR SITE PLAN APLICATION	26/02/12

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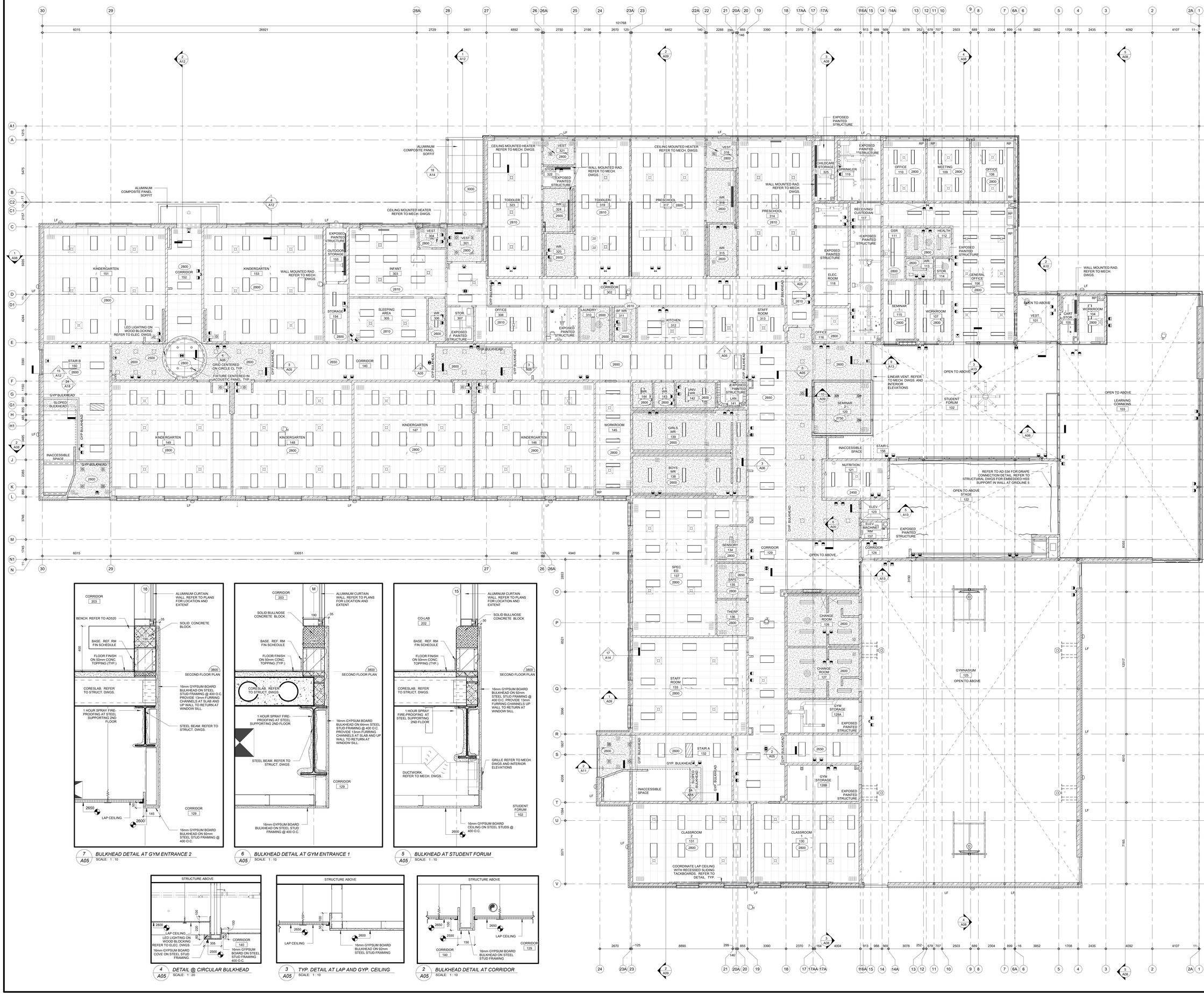
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ROOF PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-6364 Fax: (905) 607-6290

SCALE	1 : 100
PROJECT	24106
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7 A05 *BULKHEAD DETAIL AT GYM ENTRANCE 2*
SCALE: 1 : 10

6 A05 *BULKHEAD DETAIL AT GYM ENTRANCE 1*
SCALE: 1 : 10

5 A05 *BULKHEAD AT STUDENT FORUM*
SCALE: 1 : 10

4 A05 *DETAIL @ CIRCULAR BULKHEAD*
SCALE: 1 : 20

3 A05 *TYP. DETAIL AT LAP AND GYP. CEILING*
SCALE: 1 : 10

2 A05 *BULKHEAD DETAIL AT CORRIDOR*
SCALE: 1 : 10

PROJECT NORTH
TRUE NORTH

RCP LEGEND

- LIGHT FIXTURE REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE
- FLUSH MOUNTED LIGHT FIXTURE. REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE
- ACOUSTIC CEILING PANELS REFER TO SPECIFICATIONS FOR DESCRIPTION OF TYPES
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- RP RADIANT PANEL
- GYPSUM BOARD CEILING OF BULKHEAD
- LIGHT FIXTURE, FOR TYPE AND MOUNTING SEE ELEC. DWGS
- LIGHT FIXTURE, FOR TYPE AND MOUNTING SEE ELEC. DWGS
- #### CEILING HEIGHT FROM FINISHED FLOOR
- LF LIGHT FIXTURE
- GB GYPSUM BOARD

NOTES:

TYP. FOR ALL CLASSROOMS. INSTALLATION OF CEILINGS TO BE COORDINATE WITH INSTALLATION OF SLIDING TACKBOARDS. REFER TO AD 2001

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
02	ISSUED FOR BUILDING PERMIT	26/03/23
01	ISSUED FOR 85% COST ESTIMATE	26/03/09

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LICENCE 6053
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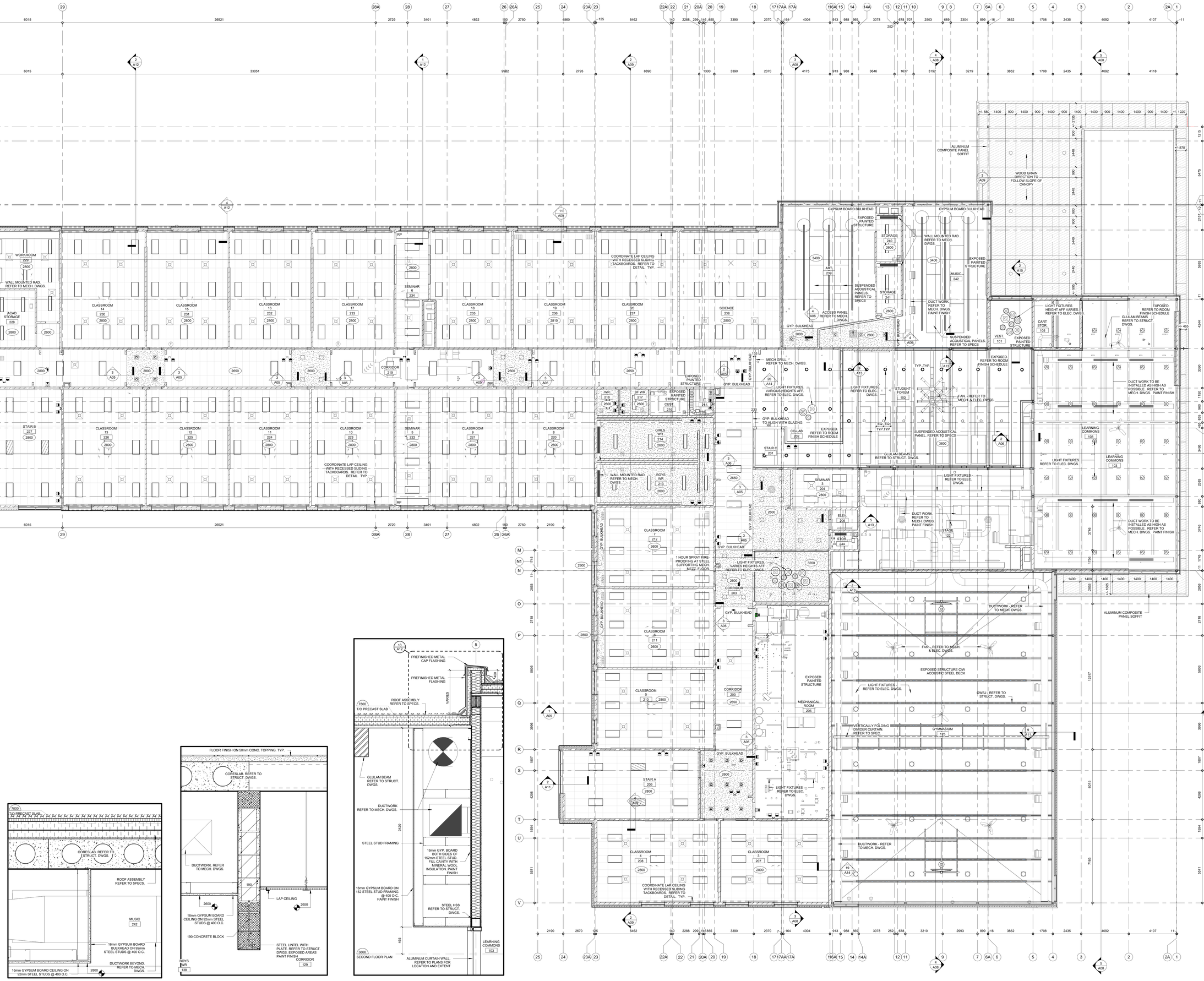
North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

REFLECTED CEILING PLAN - GROUND FLOOR

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 3M8
Tel: (905) 607-6284 Fax: (905) 607-6290

SCALE	1 : 100
PROJECT	24106
DATE	NOV 2026
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DRAWING	A05
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4 A06 BULKHEAD DETAIL @ MUSIC & ART ROOM
SCALE: 1 : 10

3 A06 TYP. BULKHEAD AT WASHROOMS
SCALE: 1 : 10

2 A06 SECTION DETAIL @ FORUM BULKHEAD
SCALE: 1 : 20

PROJECT NORTH
TRUE NORTH

RCP LEGEND

- LIGHT FIXTURE REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE
- FLUSH MOUNTED LIGHT FIXTURE. REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE
- ACOUSTIC CEILING PANELS REFER TO SPECIFICATIONS FOR DESCRIPTION OF TYPES
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- RP RADIANT PANEL
- GYPSUM BOARD CEILING OF BULKHEAD
- LIGHT FIXTURE, FOR TYPE AND MOUNTING SEE ELEC. DWGS
- LIGHT FIXTURE, FOR TYPE AND MOUNTING SEE ELEC. DWGS
- #### CEILING HEIGHT FROM FINISHED FLOOR
- LF LIGHT FIXTURE
- GB GYPSUM BOARD

NOTES:

TYP. FOR ALL CLASSROOMS: INSTALLATION OF CEILINGS TO BE COORDINATE WITH INSTALLATION OF SLIDING TACKBOARDS. REFER TO AD 2001

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
02	ISSUED FOR BUILDING PERMIT	26/03/23
01	ISSUED FOR 85% COST ESTIMATE	26/03/09

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6553
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North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
3500 POST RD.
OAKVILLE, ON

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REFLECTED CEILING PLAN - SECOND FLOOR

HOSSACK & ASSOCIATES ARCHITECTS
4150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L4W 3M6
Tel (905) 607-6264 Fax (905) 607-6290

SCALE 1 : 100	PROJECT 24106
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DRAWN RS	DRAWING A06
CHECKED PL	
PRINT DATE	2026-11-05 10:06:37 AM
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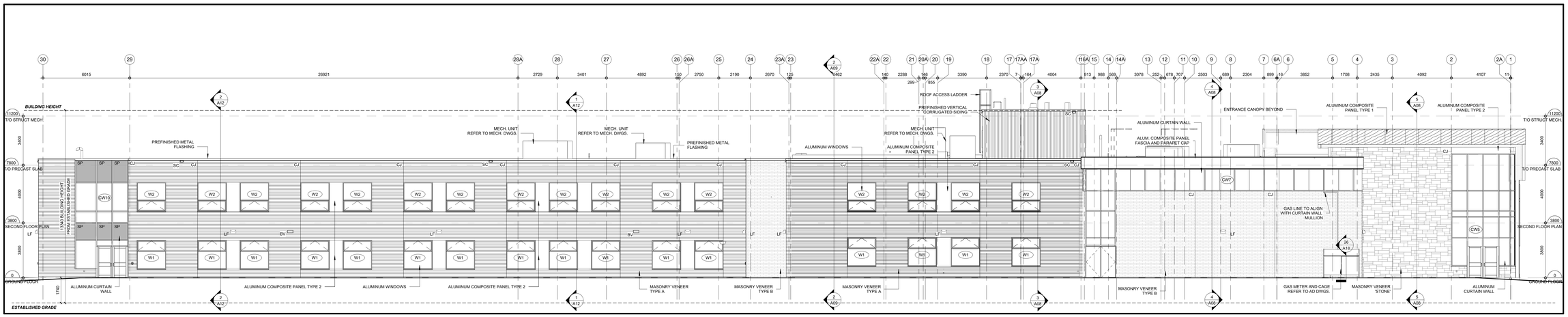
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TRUE NORTH

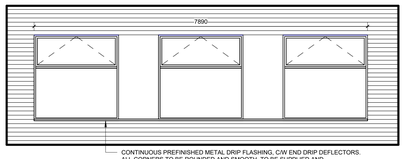
MATERIAL LEGEND

- MASONRY VENEER TYPE 'A' (FIELD; RED)
- MASONRY VENEER TYPE 'B' (ACCENT; DARK GREY COLOUR)
- MASONRY VENEER 'STONE'
- ALUMINUM COMPOSITE PANEL TYPE 1
- ALUMINUM COMPOSITE PANEL TYPE 2
- PREFINISHED VERTICAL CORRUGATED SIDING
- HORIZONTAL ALUMINUM SIDING
- SPANDREL PANEL (GREY)

NFHS NON FREEZE HOSE BIBB REFER TO MECH. DWGS
SP SPANDREL PANEL
CJ CONTROL JOINT
LF LIGHT FIXTURE. REFER TO ELEC. DWGS
SC SCUPPER
LV LOUVRE - REFER TO MECH. DWGS
BV BRICK VENT - REFER TO MECH. DWGS

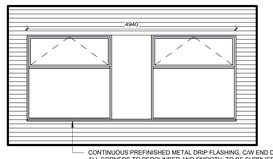


4 A07 *SOUTH ELEVATION*
SCALE: 1 : 100



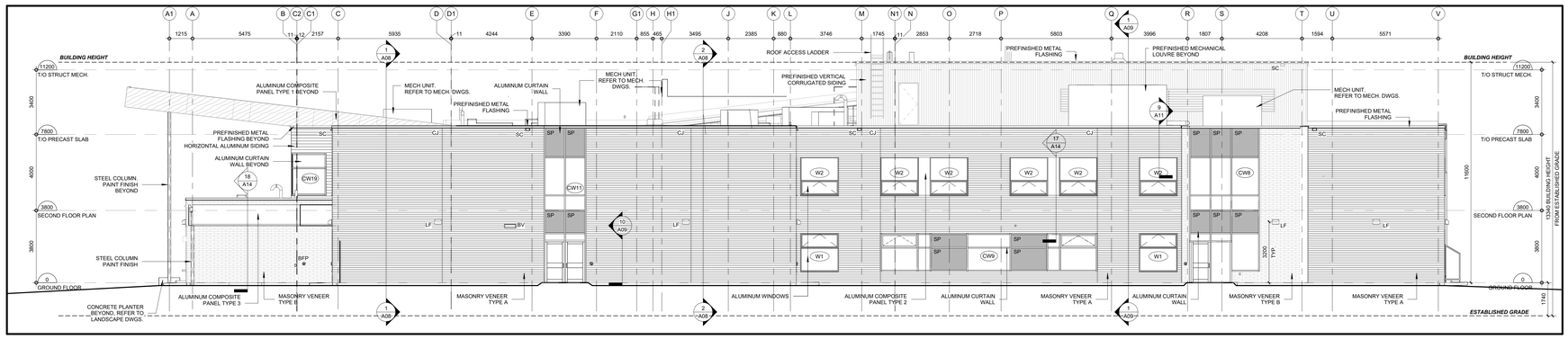
CONTINUOUS PREFINISHED METAL DRIP FLASHING, C/W END DRIP DEFLECTORS. ALL CORNERS TO BE ROUNDED AND SMOOTH. TO BE SUPPLIED AND INSTALLED BY WINDOW MANUFACTURER AND SUPPLIER. TYPICAL

6 A07 *TYPICAL CONT. DRIP EDGE - A*
SCALE: 1 : 50

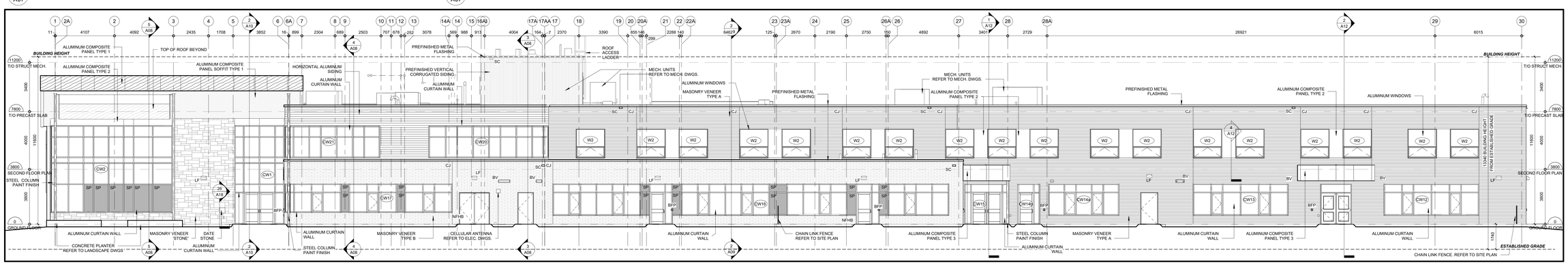


CONTINUOUS PREFINISHED METAL DRIP FLASHING, C/W END DRIP DEFLECTORS. ALL CORNERS TO BE ROUNDED AND SMOOTH. TO BE SUPPLIED AND INSTALLED BY WINDOW MANUFACTURER AND SUPPLIER. TYPICAL

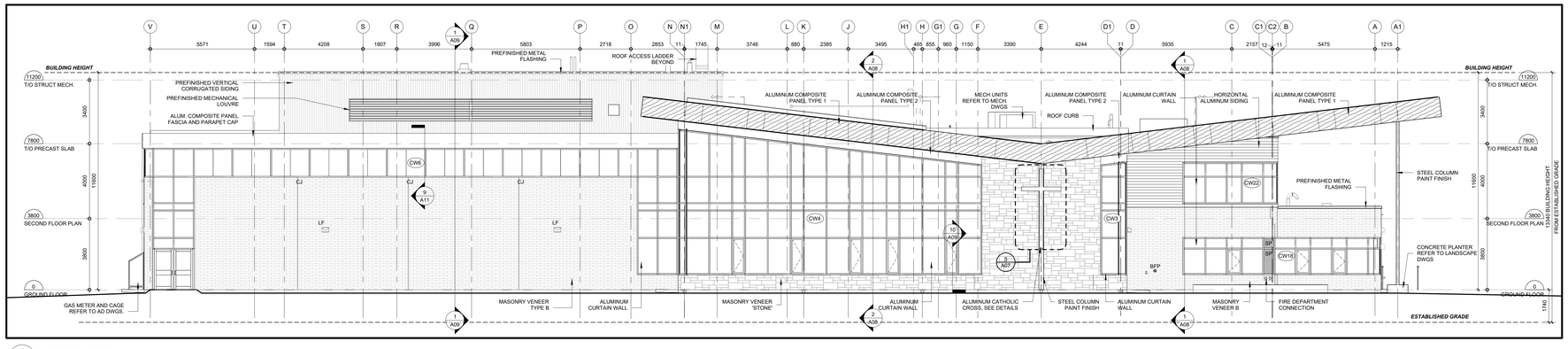
7 A07 *TYPICAL CONT. DRIP EDGE - B*
SCALE: 1 : 50



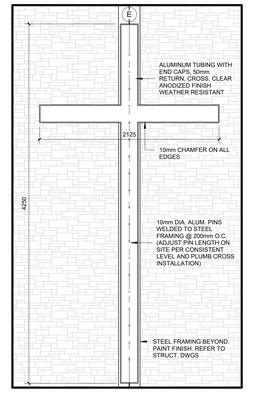
3 A07 *WEST ELEVATION*
SCALE: 1 : 100



2 A07 *NORTH ELEVATION*
SCALE: 1 : 100



1 A07 *EAST ELEVATION1*
SCALE: 1 : 100



5 A07 *ALUMINUM CROSS DETAIL*
SCALE: 1 : 25

06	ISSUED FOR TENDER	26/11/04
05	ISSUED FOR BP RESUBMISSION	26/10/09
04	ISSUED FOR TENDER	26/06/08
03	ISSUED FOR BUILDING PERMIT	26/03/23
02	ISSUED FOR 85% COST ESTIMATE	26/03/09
01	ISSUED FOR SITE PLAN APLICATION	26/02/12
NO.	DESCRIPTION	DATE

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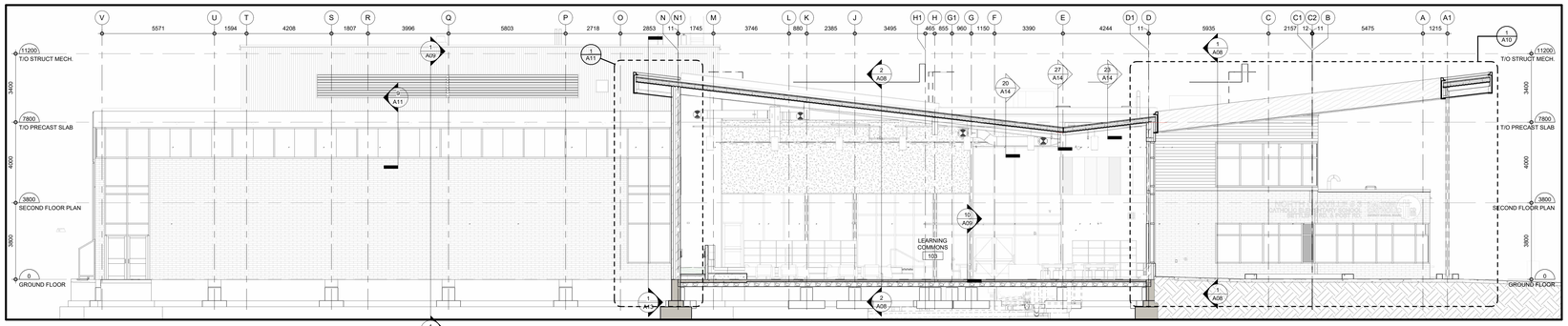
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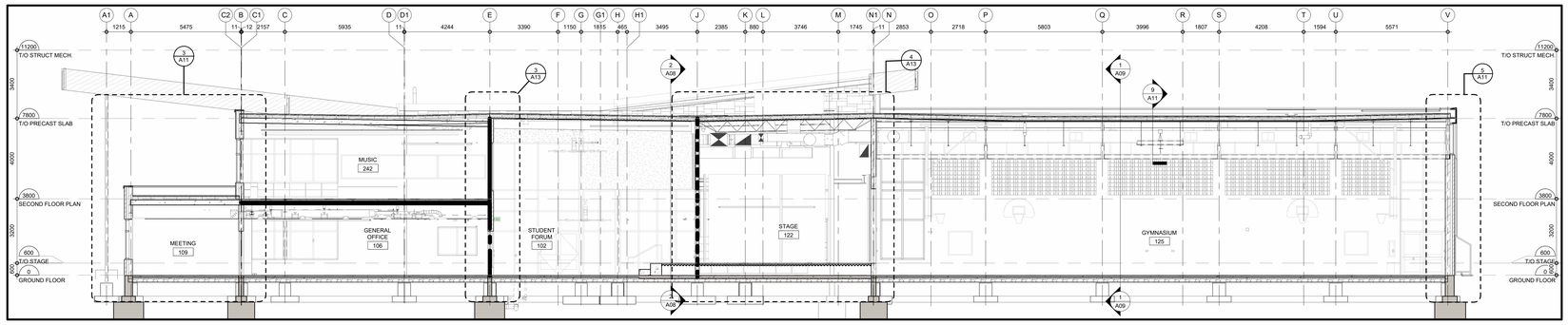
EXTERIOR ELEVATIONS

HOSSACK & ASSOCIATES ARCHITECTS
4 (100) DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
TH (905) 607-6284 Fax (905) 607-6290

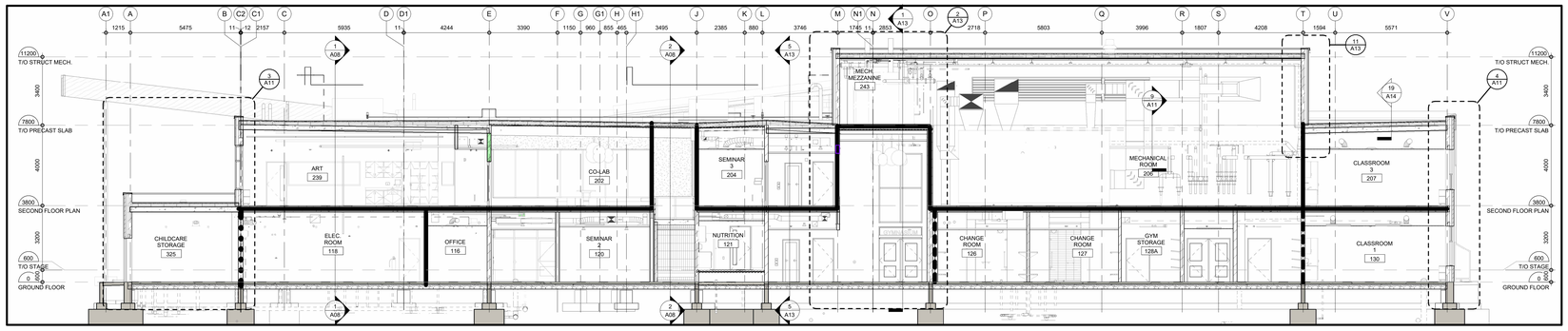
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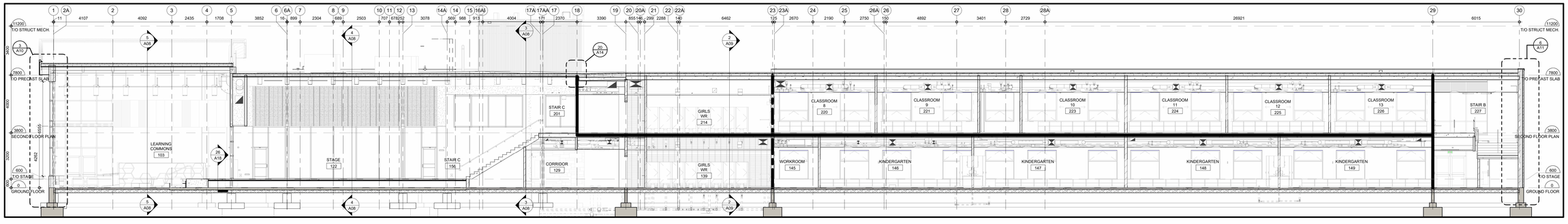
5 A08 *BUILDING SECTION 5*
SCALE: 1 : 100



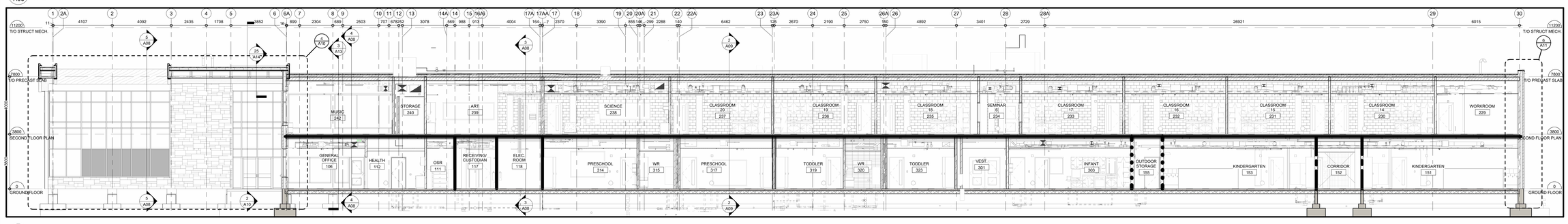
4 A08 *BUILDING SECTION 4*
SCALE: 1 : 100



3 A08 *BUILDING SECTION 3*
SCALE: 1 : 100



2 A08 *BUILDING SECTION 2*
SCALE: 1 : 100



1 A08 *BUILDING SECTION 1*
SCALE: 1 : 100

PROJECT NORTH

TRUE NORTH

FIRE SEPARATION LEGEND

NON RATED FIRE SEPARATION

30 MIN FIRE SEPARATION

1 HOUR FIRE SEPARATION

2 HOUR FIRE SEPARATION

PATH OF TRAVEL

1. NEW STRUCTURAL STEEL SUPPORTING 1ST FLOOR AND MEZZANINE (COLUMNS AND BEAMS) TO BE SPRAY FIRE-PROOFED TO MEET A 1-HOUR FIRE-RESISTANCE RATING

2. THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE FIRE SEPARATION PLANS, GENERAL DRAWING NOTES AND APPLICABLE SPECIFICATION SECTION (IE. FIRE-PROOFING, GYPSUM BOARD ETC.)

3. EXTEND ALL INTERIOR PARTITIONS TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED OR INDICATED. REFER TO OBC DATA MATRIX, FIRE SEPARATION PLANS AND BUILDING SECTIONS FOR LOCATION OF FIRE RATED PARTITIONS, FLOORS AND FIRE SEPARATIONS.

4. COMPLY FULLY WITH REQUIREMENTS LISTED UNDER THE SPECIFIC DESIGN No. IN THE U.L.C. LIST OF EQUIPMENT AND MATERIALS. CURRENT VOLUME.

5. INDICATED FIRE RESISTANCE RATING IS STRICTLY OBTAINED FROM THE CONCRETE SLAB MIN. CONC. SLAB THICKNESS (REFER TO OBC SUPPLEMENTARY GUIDLINES-SG-2: FIRE PERFORMANCE RATINGS TABLE 2.2.1.A)

6. FOR CONCRETE SLABS REQUIRED TO HAVE FRR, MAINTAIN MIN CONC COVER OVER REINFORCEMENT ACCORDING TO OBC :SUPPLEMENTARY GUIDELINES SG-2 :FIRE-PERFORMANCE RATINGS, TABLE 2.2.1.B.

7. REFER TO SPECIFICATIONS FOR LOCATIONS OF WATER/MOULD RESISTANT GYPSUM BOARD AND FOR ABUSE RESISTANT GYPSUM BOARD

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
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LICENCE
6003
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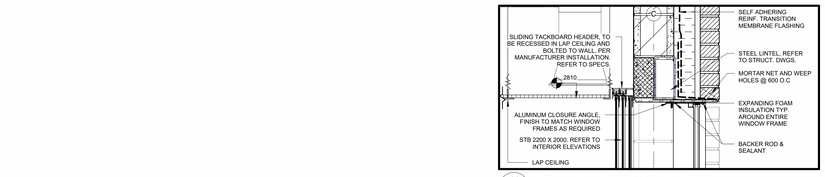
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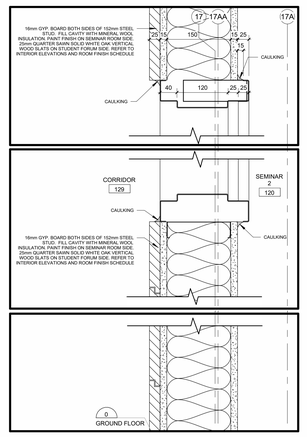
BUILDING SECTIONS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-8284 Fax: (905) 607-8290

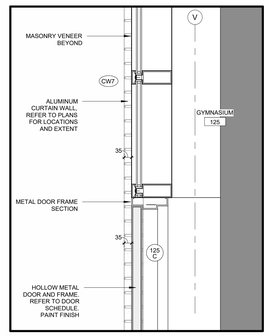
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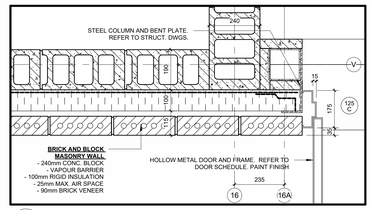
11 / A09 *DETAIL OF SLIDING BOARDS BULKHEAD*
SCALE: 1 : 10



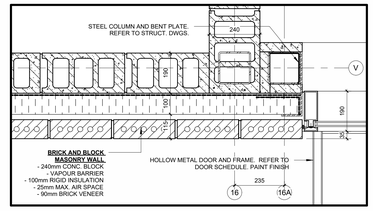
10 / A09 *WALL SECTION - SEMINAR 2 WINDOW*
SCALE: 1 : 5



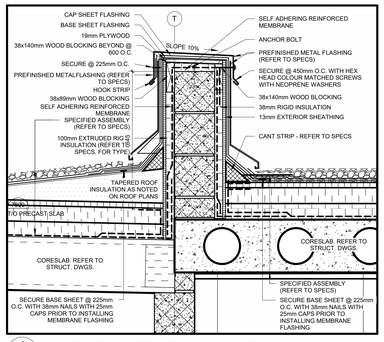
9 / A09 *SECTION DETAIL @ DOOR FRAME AND CURTAIN WALL MULLION*
SCALE: 1 : 10



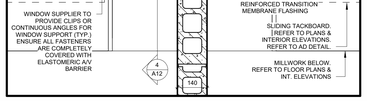
8 / A09 *PLAN DETAIL @ DOOR JAMB -GRID 16*
SCALE: 1 : 10



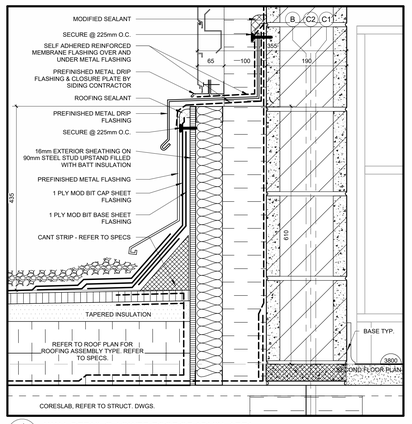
7 / A09 *PLAN DETAIL @ CURTAIN WALL MULLION-GRID 16 ABOVE DOOR*
SCALE: 1 : 10



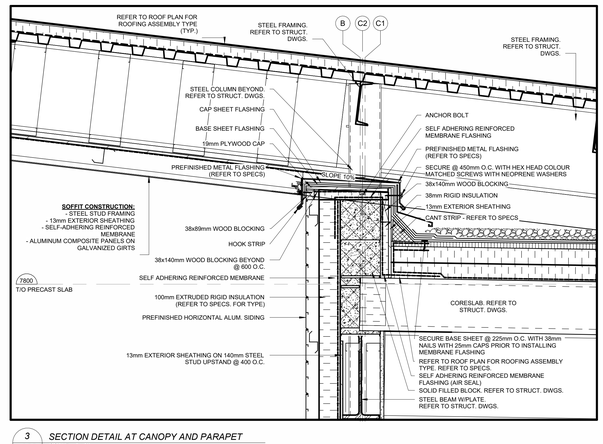
6 / A09 *PARAPET DETAIL @ PRECAST SLAB ROOF CURB*
SCALE: 1 : 10



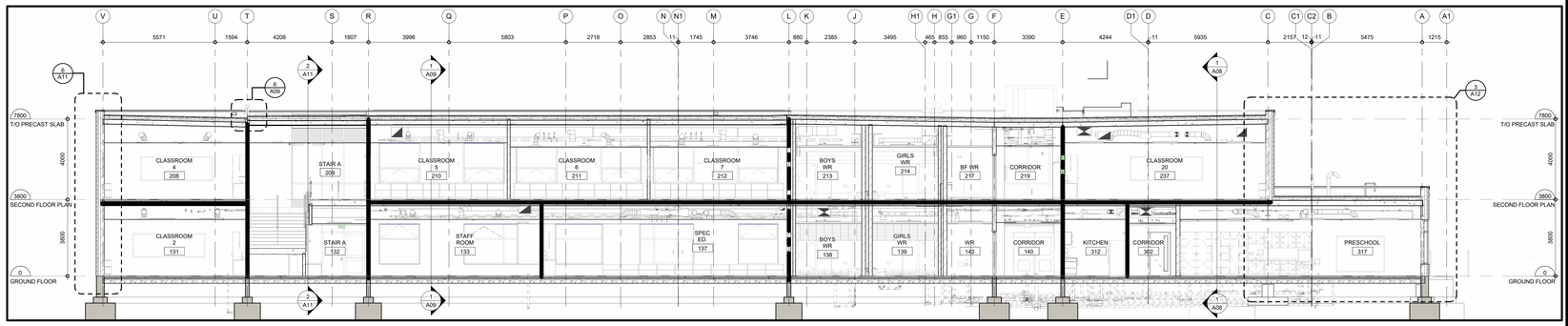
5 / A09 *PLAN DETAIL @ ALUM. PANEL BETWEEN WINDOWS*
SCALE: 1 : 10



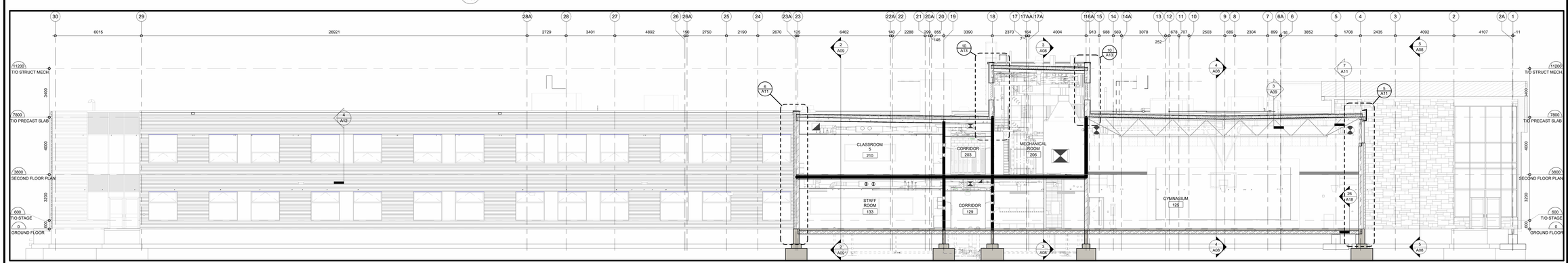
4 / A09 *WALL DETAIL @ LOWER ROOF OF ADMIN. AREA*
SCALE: 1 : 5



3 / A09 *SECTION DETAIL AT CANOPY AND PARAPET*
SCALE: 1 : 10



2 / A09 *BUILDING SECTION 7*
SCALE: 1 : 100



1 / A09 *BUILDING SECTION 6*
SCALE: 1 : 100

PROJECT NORTH

TRUE NORTH

FIRE SEPARATION LEGEND

NON RATED FIRE SEPARATION
30 MIN FIRE SEPARATION
1 HOUR FIRE SEPARATION
2 HOUR FIRE SEPARATION
PATH OF TRAVEL

1. NEW STRUCTURAL STEEL SUPPORTING 1ST FLOOR AND MEZZANINE (COLUMNS AND BEAMS) TO BE SPRAY FIRE-PROOFED TO MEET A 1-HOUR FIRE-RESISTANCE RATING
2. THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE FIRE SEPARATION PLANS, GENERAL DRAWING NOTES AND APPLICABLE SPECIFICATION SECTION (IE. FIRE-PROOFING, GYPSUM BOARD ETC.)
3. EXTEND ALL INTERIOR PARTITIONS TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED OR INDICATED. REFER TO OBC DATA MATRIX, FIRE SEPARATION PLANS AND BUILDING SECTIONS FOR LOCATION OF FIRE RATED PARTITIONS, FLOORS AND FIRE SEPARATIONS.
4. COMPLY FULLY WITH REQUIREMENTS LISTED UNDER THE SPECIFIC DESIGN No. IN THE U.L.C. LIST OF EQUIPMENT AND MATERIALS, CURRENT VOLUME.
5. INDICATED FIRE RESISTANCE RATING IS STRICTLY OBTAINED FROM THE CONCRETE SLAB MIN. CONC. SLAB THICKNESS (REFER TO OBC SUPPLEMENTARY GUIDLINES-SG-2: FIRE PERFORMANCE RATINGS TABLE 2.2.1.A)
6. FOR CONCRETE SLABS REQUIRED TO HAVE FRR, MAINTAIN MIN CONC COVER OVER REINFORCEMENT ACCORDING TO OBC :SUPPLEMENTARY GUIDELINES SG-2 :FIRE-PERFORMANCE RATINGS, TABLE 2.2.1.B.
7. REFER TO SPECIFICATIONS FOR LOCATIONS OF WATER/MOULD RESISTANT GYPSUM BOARD AND FOR ABUSE RESISTANT GYPSUM BOARD

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
02	ISSUED FOR BUILDING PERMIT	26/03/23
01	ISSUED FOR 85% COST ESTIMATE	26/03/05

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADOUCEUR
LICENCE
6553
CERTIFICATE OF PRACTICE #4292

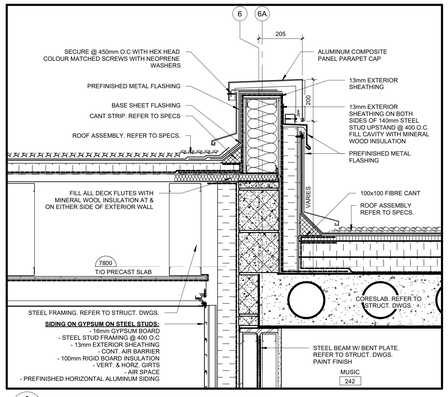
North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

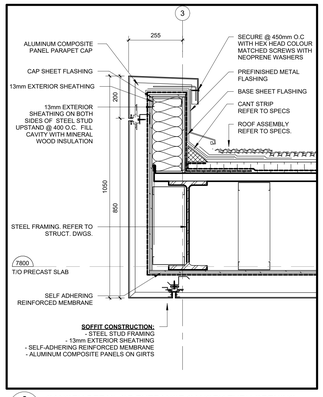
BUILDING SECTIONS & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L4W 3M8
Tel (905) 607-4294 Fax (905) 607-4295

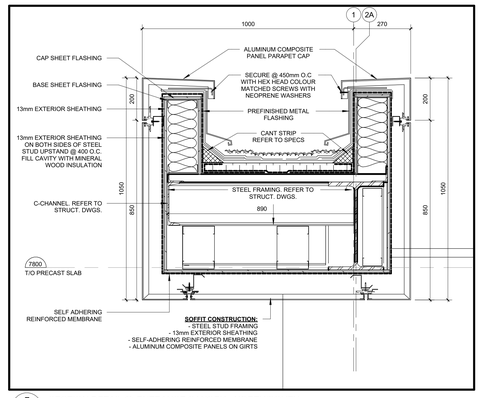
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PROJECT	24106
DATE	NOV 2026
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DRAWING	A09
CHECKED	PL
PRINT DATE	2026-11-05 10:09:53 AM
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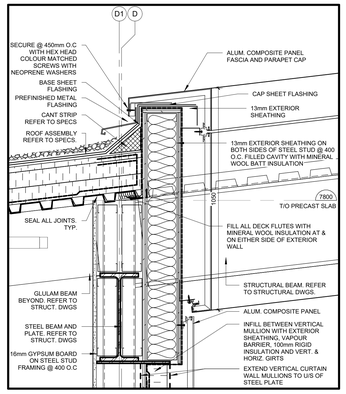
9 / A10 SECTION DETAIL @ ENTRACE CANOPY AND ROOF
SCALE: 1 : 10



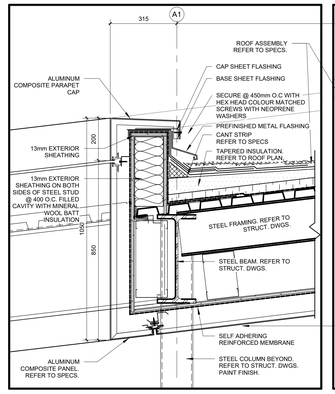
8 / A10 CANOPY DETAIL OF ENTRANCE CANOPY THRU OPENING
SCALE: 1 : 10



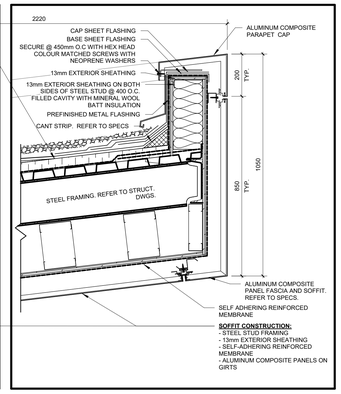
7 / A10 SECTION DETAIL @ ENTRANCE CANOPY - NORTH/SOUTH
SCALE: 1 : 10



6 / A10 SECTION DETAIL @ ENTRANCE CANOPY - EAST/WEST
SCALE: 1 : 10

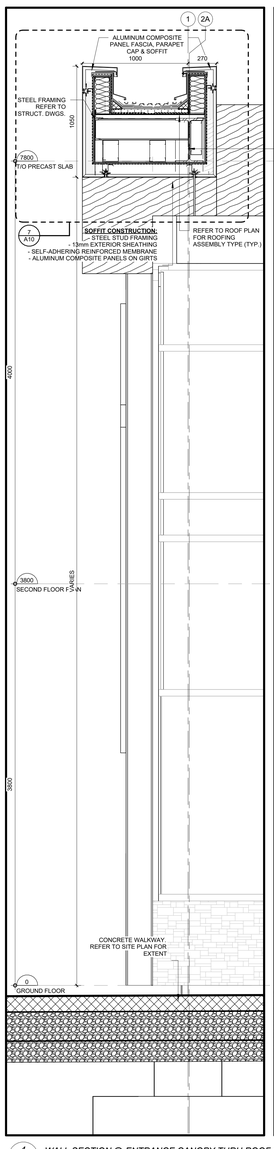


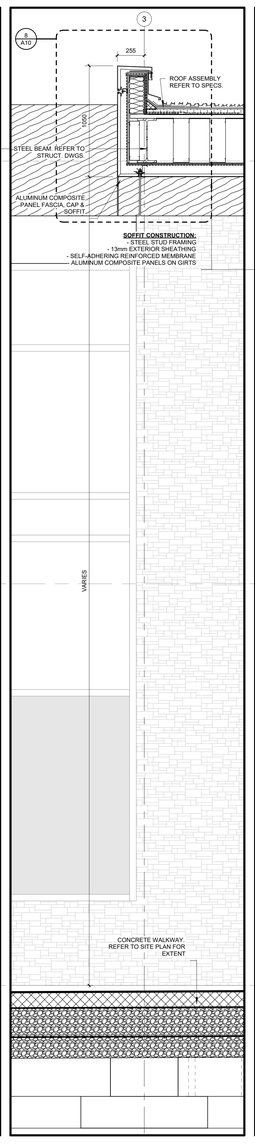
5 / A10 PARAPET DETAIL @ CANOPY OPENING
SCALE: 1 : 10

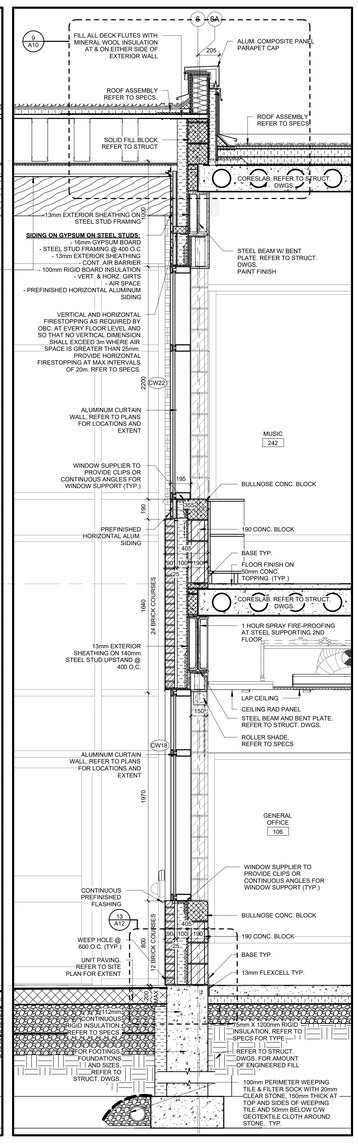


PROJECT NORTH

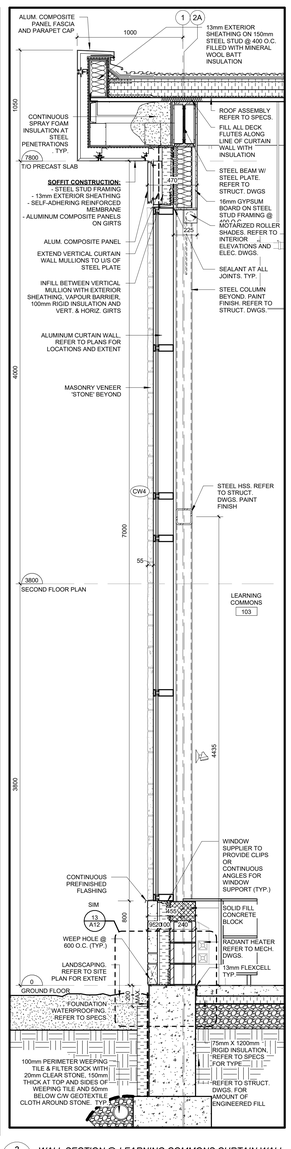
TRUE NORTH



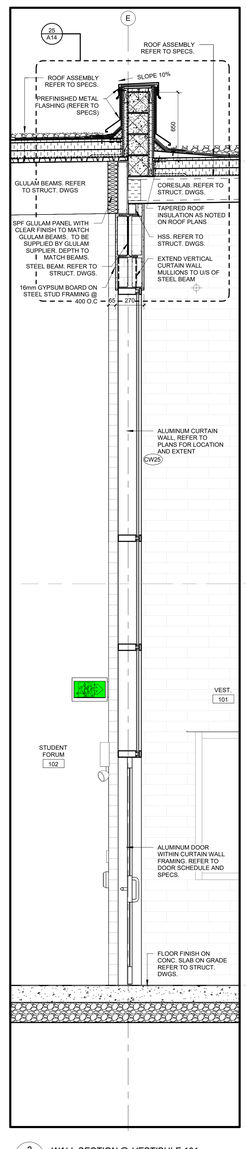




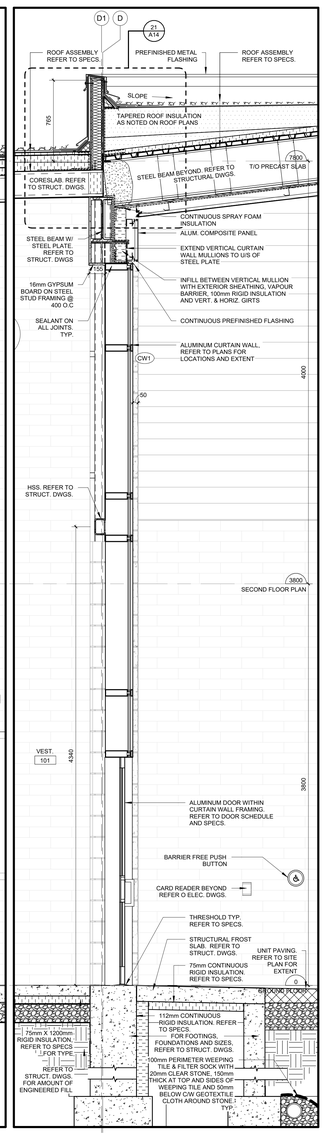
4 / A10 WALL SECTION @ ENTRANCE CANOPY THRU ROOF OPENING - NORTH/SOUTH
SCALE: 1 : 20

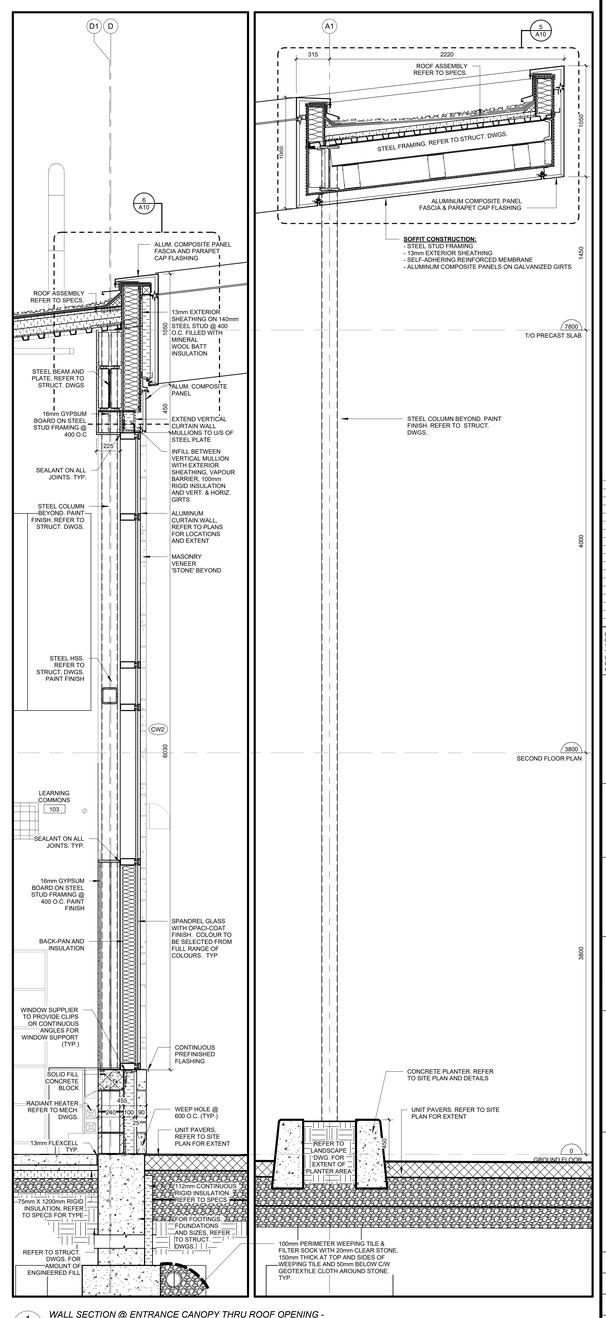


3 / A10 WALL SECTION @ LEARNING COMMONS CURTAIN WALL
SCALE: 1 : 20



2 / A10 WALL SECTION @ VESTIBULE 101
SCALE: 1 : 20





1 / A10 WALL SECTION @ ENTRANCE CANOPY THRU ROOF OPENING - NORTH/SOUTH
SCALE: 1 : 20

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ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADOUCEUR
LICENCE 6003
CERTIFICATE OF PRACTICE #4292

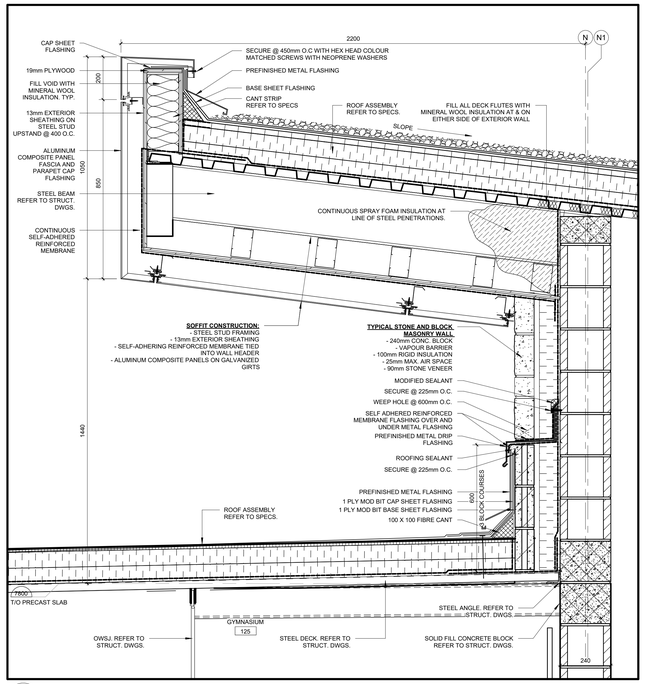
North Oakville #3
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CDSB

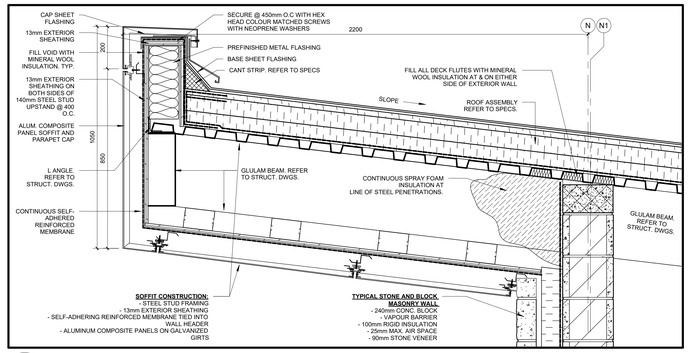
WALL SECTIONS & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8284 Fax (905) 607-8286

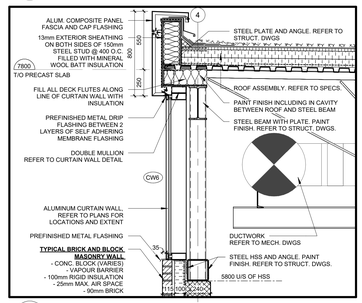
SCALE	PROJECT
As Indicated	24106
DATE	
NOV 2026	
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CHECKED PL	A10
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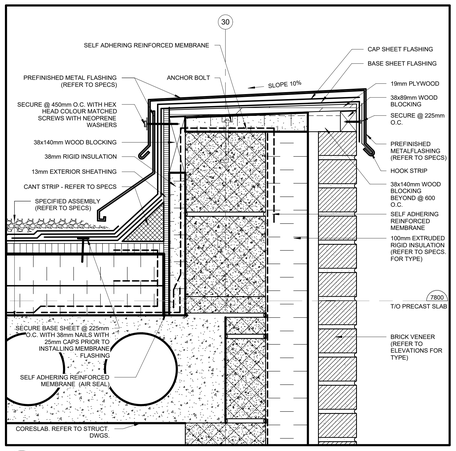
7 / A11 *WALL SECTION OF CANOPY ABOVE GYM ROOF*
SCALE: 1 : 10



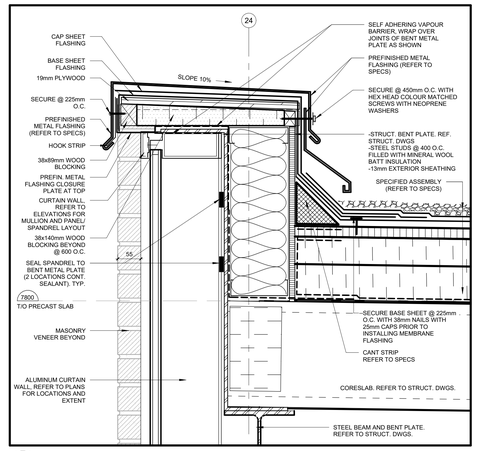
8 / A11 *SECTION DETAIL @ LEARNING COMMONS CANOPY*
SCALE: 1 : 10



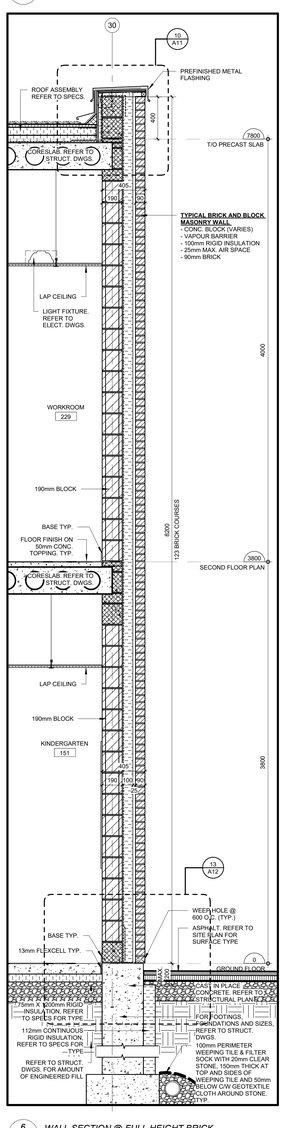
9 / A11 *WALL SECTION @ EXTERIOR GYM WALL AT GRIDLINE 4*
SCALE: 1 : 20



10 / A11 *SECTION DETAIL @ TYPICAL PARAPET*
SCALE: 1 : 5



11 / A11 *SECTION PARAPET AT CURTAIN WALL - STUD & BENT PLANTE BACKUP*
SCALE: 1 : 5


30
10 / A11
PREFINISHED METAL FLASHING
ROOF ASSEMBLY REFER TO SPECS.
CORESLAB. REFER TO STRUCT. DWGS.
7800
T/O PRECAST SLAB
600
425
100
100
80
TYPICAL BRICK AND BLOCK MASONRY WALL
- CONC. BLOCK (VARIES)
- VAPOUR BARRIER
- 100mm RIGID INSULATION
- 25mm MAX. AIR SPACE
- 90mm BRICK
LAP CEILING
LIGHT FIXTURE. REFER TO ELECT. DWGS
WORKROOM
229
190mm BLOCK
BASE TYP.
FLOOR FINISH ON 50mm CONC. TOPPING. TYP.
3800
SECOND FLOOR PLAN
CORESLAB. REFER TO STRUCT. DWGS.
LAP CEILING
190mm BLOCK
KINDERGARTEN
151
190
100
100
405
25
13 / A12
WEEP HOLE @ 600 O.C. (TYP.)
ASPHALT. REFER TO SITE PLAN FOR SURFACE TYPE
BASE TYP.
13mm FLEXCELL TYP.
0
GROUND FLOOR
MAX
200
CAST IN PLACE CONCRETE. REFER TO STRUCTURAL PLANS FOR TYPE
75mm X 1200mm RIGID INSULATION. REFER TO SPECS FOR TYPE
112mm CONTINUOUS RIGID INSULATION. REFER TO SPECS
FOOTINGS, FOUNDATIONS AND SIZES. REFER TO STRUCT. DWGS.
100mm PERIMETER WEEPING TILE & FILTER SOCK WITH 20mm CLEAR STONE, 150mm THICK AT TOP AND SIDES OF WEEPING TILE AND 50mm BELOW C/W GEOTEXTILE CLOTH AROUND STONE. TYP.
REFER TO STRUCT. DWGS. FOR AMOUNT OF ENGINEERED FILL
4000
8300
123 BRICK COURSES
3800
6000
2600
V
26 / A14
STEEL PLATE AND ANGLE. REFER TO STRUCT. DWGS
425
ALUM. COMPOSITE PANEL FASCIA AND CAP FLASHING
ROOF ASSEMBLY. REFER TO SPECS.
13mm EXTERIOR SHEATHING ON BOTH SIDES OF 150mm STEEL STUD @ 400 O.C. FILLED WITH MINERAL WOOL BATT INSULATION
550
7800
T/O PRECAST SLAB
FILL ALL DECK FLUTES ALONG LINE OF CURTAIN WALL WITH INSULATION
STEEL BEAM WITH PLATE. PAINT FINISH. REFER TO STRUCT. DWGS.
MOTARIZED ROLLER SHADES. REFER TO INTERIOR ELEVATIONS AND ELEC. DWGS.
1555
CW7
ALUMINUM CURTAIN WALL. REFER TO PLANS FOR LOCATIONS AND EXTENT
STEEL HSS. PAINT FINISH. REFER TO STRUCT. DWGS.
35
PREFINISHED METAL FLASHING
5800 U/S OF HSS
TYPICAL BRICK AND BLOCK MASONRY WALL
- CONC. BLOCK (VARIES)
- VAPOUR BARRIER
- 100mm RIGID INSULATION
- 25mm MAX. AIR SPACE
- 90mm BRICK
455
240
100
100
GYMNASIUM
125
LIGHT FIXTURE REFER TO ELEC. DWGS.
240mm BLOCK
LAP CEILING
KINDERGARTEN
151
CLASSROOM
130
BULLNOSE BLOCK BEYOND
MILLWORK. REFER TO FLOOR PLANS
SOLID FILL BULLNOSE BLOCK
BASE TYP.
13mm FLEXCELL TYP.
FLOOR FINISH ON CONC. SLAB ON GRADE REFER TO STRUCT. DWGS.
13 / A12
WEEP HOLE @ 600 O.C.
ASPHALT. REFER TO SITE PLAN FOR SURFACE TYPE
0
GROUND FLOOR
MAX
200
CAST IN PLACE CONCRETE. REFER TO STRUCTURAL PLANS FOR TYPE
75mm X 1200mm RIGID INSULATION. REFER TO SPECS FOR TYPE
112mm CONTINUOUS RIGID INSULATION. REFER TO SPECS
FOR FOOTINGS, FOUNDATIONS AND SIZES, REFER TO STRUCT. DWGS.
100mm PERIMETER WEEPING TILE & FILTER SOCK WITH 20mm CLEAR STONE, 150mm THICK AT TOP AND SIDES OF WEEPING TILE AND 50mm BELOW C/W GEOTEXTILE CLOTH AROUND STONE. TYP.
REFER TO STRUCT. DWGS. FOR AMOUNT OF ENGINEERED FILL
4000
2600
3800
V
10 / A11
SIM
PREFINISHED METAL FLASHING
ROOF ASSEMBLY REFER TO SPECS.
CORESLAB. REFER TO STRUCT. DWGS.
7800
T/O PRECAST SLAB
TYPICAL BRICK AND BLOCK MASONRY WALL
- CONC. BLOCK (VARIES)
- VAPOUR BARRIER
- 100mm RIGID INSULATION
- 25mm MAX. AIR SPACE
- 90mm BRICK
405
345
100
100
80
190mm BLOCK
COORD. LAP CEILING WITH RECESSED SLIDING TACKBOARDS. REFER TO DETAIL. TYP.
11 / A09
WEEP HOLE @ 600 O.C. (TYP.)
5 / A12
LAP CEILING
STEEL LINTEL. REFER TO STRUCT. DWGS. PAINT FINISH.
BULLNOSE BLOCK BEYOND
CLASSROOM
207
MILLWORK. REFER TO FLOOR PLANS
190mm BLOCK
BASE TYP.
FLOOR FINISH ON 50mm CONC. TOPPING. TYP
3800
SECOND FLOOR PLAN
SOLID SLAB. REFER TO STRUCT. DWGS.
190mm BLOCK
COORD. LAP CEILING WITH RECESSED SLIDING TACKBOARDS. REFER TO DETAIL. TYP
LAP CEILING
STEEL LINTEL. REFER TO STRUCT. DWGS. PAINT FINISH.
240mm BLOCK
BULLNOSE BLOCK BEYOND
MILLWORK. REFER TO FLOOR PLANS
SOLID FILL BULLNOSE BLOCK
BASE TYP.
13mm FLEXCELL TYP.
FLOOR FINISH ON CONC. SLAB ON GRADE REFER TO STRUCT. DWGS.
13 / A12
WEEP HOLE @ 600 O.C. (TYP.)
ASPHALT. REFER TO SITE PLAN FOR SURFACE TYPE
0
GROUND FLOOR
MAX
200
CAST IN PLACE CONCRETE. REFER TO STRUCTURAL PLANS FOR TYPE
75mm X 1200mm RIGID INSULATION. REFER TO SPECS FOR TYPE
112mm CONTINUOUS RIGID INSULATION. REFER TO SPECS
FOR FOOTINGS, FOUNDATIONS AND SIZES, REFER TO STRUCT. DWGS.
100mm PERIMETER WEEPING TILE & FILTER SOCK WITH 20mm CLEAR STONE, 150mm THICK AT TOP AND SIDES OF WEEPING TILE AND 50mm BELOW C/W GEOTEXTILE CLOTH AROUND STONE. TYP.
REFER TO STRUCT. DWGS. FOR AMOUNT OF ENGINEERED FILL
4000
3800
W2
W1
2000
65
TYP.
BRICK BEYOND
ALUMINUM WINDOW. REFER TO SCHEDULE AND SPECS.
WINDOW SUPPLIER TO PROVIDE CLIPS OR CONTINUOUS ANGLES FOR WINDOW SUPPORT (TYP.)
PREFINISHED METAL SILL FLASHING
WEEP HOLE @ 600 O.C. (TYP.)
ASPHALT. REFER TO SITE PLAN FOR EXTENT
12 BRICK COURSES
800
A1
A
7800
T/O PRECAST SLAB
SIDING ON BLOCK WALL:
-16mm GYPSUM BOARD ON STEEL STUD FRAMING @ 400 O.C
-13mm EXTERIOR SHEATHING
-CONT. AIR BARRIER
-100mm RIGID BOARD INSULATION
-VERT. & HORZ. GIRTS
-HORZ. & VERT. FIRESTOPPING AS REQUIRED BY OBC
-PREFINISHED HORIZONTAL ALUMINUM SIDING
ALUMINUM CURTAIN WALL. REFER TO PLANS FOR LOCATIONS AND EXTENT
SIDING ON GYPSUM ON STEEL STUDS:
- 16mm GYPSUM BOARD
- STEEL STUD FRAMING @ 400 O.C
- 13mm EXTERIOR SHEATHING
- 100mm RIGID BOARD INSULATION
- AIR SPACE
- PREFINISHED HORIZONTAL ALUMINUM SIDING
REFER TO ROOF PLAN FOR ROOFING SIM ASSEMBLY TYP (TYP)
10 / A11
600
24 BRICK COURSES
3800
SECOND FLOOR PLAN
13mm EXTERIOR SHEATHING ON STEEL STUD UPSTAND @ 400 O.C.
6 / A12
BRICK ON STEEL STUD WALL:
-16mm GYPSUM BOARD ON STEEL STUD @ 400mm O.C
-13mm EXTERIOR SHEATHING
-CONT. AIR BARRIER
-100mm RIGID BOARD INSULATION
-AIR SPACE
-HORZ. & VERT. FIRESTOPPING AS REQUIRED BY OBC
-90mm BRICK
WEEP HOLES @ 600 O.C.
ALUMINUM CURTAIN WALL. REFER TO PLANS FOR LOCATIONS AND EXTENT
CW17
2000
WINDOW SUPPLIER TO PROVIDE CLIPS OR CONTINUOUS ANGLES FOR WINDOW SUPPORT (TYP.)
PREFINISHED METAL SILL FLASHING
55
TYPICAL BRICK AND BLOCK MASONRY WALL
13 / A12
WEEP HOLES @ 600 O.C.
LANDSCAPE. REFER TO SITE PLAN AND LANDSCAPE DRAWINGS FOR EXTENT
0
GROUND FLOOR
FOUNDATION WATERPROOFING. REFER TO SPECS.
112mm CONTINUOUS RIGID INSULATION. REFER TO SPECS.
FOR FOOTINGS, FOUNDATIONS AND SIZES, REFER TO STRUCT. DWGS.
100mm PERIMETER WEEPING TILE & FILTER SOCK WITH 20mm CLEAR STONE, 150mm THICK AT TOP AND SIDES OF WEEPING TILE AND 50mm BELOW C/W GEOTEXTILE CLOTH AROUND STONE. TYP.
REFER TO STRUCT. DWGS. FOR AMOUNT OF ENGINEERED FILL
C1
8 / A13
PREFINISHED METAL FLASHING
VERTICAL AND HORIZONTAL FIRESTOPPING AS REQUIRED BY OBC. AT EVERY FLOOR LEVEL AND SO THAT NO VERTICAL DIMENSION SHALL EXCEED 3m WHERE AIR SPACE IS GREATER THAN 25mm. PROVIDE HORIZONTAL FIRESTOPPING AT MAX INTERVALS OF 20m. RFER TO SPECS.
ROOF ASSEMBLY REFER TO SPECS.
CORESLAB. REFER TO STRUCT. DWGS.
13mm EXTERIOR SHEATHING ON STEEL STUD FRAMING
SOLID FILLED BLOCK. REFER TO STRUCT. DWGS.
7 / A12
600
STEEL BEAM W/ BENT PLATE. REFER TO STRUCT. DWGS.
16mm GYPSUM BOARD BULKHEAD ON STEEL STUDS FRAMING . PAINT FINISH.
ROLLER SHADE. REFER TO SPECS
MUSIC
242
STEEL ANGLE. REFER TO STRUCTURAL DWGS.
4 / A09
PREFINISHED THROUGH WALL FLASHING
450
600
410
100
100
100
BASE TYP.
FLOOR FINISH ON 50mm CONC. TOPPING (TYP.)
3800
SECOND FLOOR PLAN
CORESLAB. REFER TO STRUCT. DWGS.
BOND BEAM REFER TO STRUCT. DWGS.
DUCTWORK. REFER TO MECH. DWGS.
LAP CEILING
CONC. BLOCK WALL
MEETING
109
GENERAL OFFICE
106
HOLLOW METAL DOOR & FRAME. REFER TO SCHEDULES AND SPECS.
FLOOR FINISH ON CONC. SLAB ON GRADE REFER TO STRUCT. DWGS
REFER TO STRUCT. DWGS. FOR AMOUNT OF ENGINEERED FILL
11 / A11
24
PREFINISHED METAL FLASHING
STEEL BENT PLATE. REFER TO STRUCTURAL DWGS.
ROOF ASSEMBLY. REFER TO SPECS.
SLOPE
400
7800
T/O PRECAST SLAB
55
CORESLAB. REFER TO STRUCT. DWGS.
200
175
STEEL BEAM AND BENT PLATE. REFER TO STRUCTURAL DWGS.
SPANDREL GLASS WITH OPACI-COAT FINISH - COLOUR TO BE SELECTED FROM FULL RANGE OF COLOURS
BACK-PAN AND INSULATION
TYPICAL BRICK AND BLOCK MASONRY WALL BEYOND
LAP CEILING
ALUMINUM CURTAIN WALL. REFER TO PLANS FOR LOCATIONS AND EXTENT
STEEL CLOSURE PLATE. PAINT FINISH. REF. STRUCT. DWGS. TYP. AT ALL STAIR MID-LANDINGS AT CURTAIN WALL
4000
3800
SECOND FLOOR PLAN
SPANDREL GLASS WITH OPACI-COAT FINISH - COLOUR TO BE SELECTED FROM FULL RANGE OF COLOURS
BACK-PAN AND INSULATION
PREFINISHED BACKER PANEL. REFER TO SPECS.
MASONRY VENEER BEYOND
STAIR A
209
FLOOR MOUNTED HEATER. REFER TO MECH. DWGS.
STAIR LANDING REFER TO STRUCT. DWGS
13mm GYPSUM BOARD ON STEEL STUD FRAMING
STEEL BEAM. REFER TO STRUCT DWGS
BULLNOSE BLOCK BEYOND
STAIR A
132
CW8
PREFINISHED METAL SILL FLASHING
55
13 / A12
WEEP HOLES @ 600 O.C.
ASPHALT. REFER TO SITE PLAN FOR EXTENT
0
GROUND FLOOR
MAX
200
SOLID FILL BULLNOSE BLOCK
BASE TYP.
13mm FLEXCELL TYP.
FLOOR FINISH ON CONC. SLAB ON GRADE REFER TO STRUCT. DWGS.
112mm CONTINUOUS RIGID INSULATION. REFER TO SPECS.
FOR FOOTINGS, FOUNDATIONS AND SIZES, REFER TO STRUCT. DWGS.
75mm X 1200mm RIGID INSULATION, REFER TO SPECS FOR TYPE
100mm PERIMETER WEEPING TILE & FILTER SOCK WITH 20mm CLEAR STONE, 150mm THICK AT TOP AND SIDES OF WEEPING TILE AND 50mm BELOW C/W GEOTEXTILE CLOTH AROUND STONE. TYP.
REFER TO STRUCT. DWGS. FOR AMOUNT OF ENGINEERED FILL
4000
3800
O
8 / A11
5200
ROOF ASSEMBLY. REFER TO SPECS.
SLOPE
ALUM. COMPOSITE PANEL SOFFIT AND CAP
200
1900
1441
850
GLULAM BEAM. REFER TO STRUCT. DWGS.
FILL ALL DECK FLUTES WITH MINERAL WOOL INSULATION AT & ON EITHER SIDE OF EXTERIOR WALL
SOFFIT CONSTRUCTION:
- STEEL STUD FRAMING
- 13mm EXTERIOR SHEATHING
- SELF-ADHERING REINFORCED MEMBRANE
- ALUMINUM COMPOSITE PANELS ON GIRTS
DUCTWORK. REFER TO MECH. DWGS
7800
T/O PRECAST SLAB
ACOUSTICAL WALL TREATMENT. REFER TO INTERIOR ELEVATIONS
LEARNING COMMONS
103
3800
SECOND FLOOR PLAN
TYPICAL STONE ON BLOCK MASONRY WALL
- 240mm CONC. BLOCK
- VAPOUR BARRIER
- 100mm RIGID INSULATION
- 25mm MAX. AIR SPACE
- 90mm STONE VENEER
455
90
100
240
BASE TYP.
13mm FLEXCELL TYP.
FLOOR FINISH ON CONC. SLAB ON GRADE REFER TO STRUCT. DWGS.
WEEP HOLES @ 600 O.C.
CONCRETE WALKWAY. REFER TO SITE PLAN AND LANDSCAPE PLAN FOR EXTENT
0
GROUND FLOOR
MAX
200
112mm CONTINUOUS RIGID INSULATION. REFER TO SPECS.
CAST IN PLACE CONCRETE. REFER TO STRUCTURAL PLANS FOR TYPE
75mm X 1200mm RIGID INSULATION, REFER TO SPECS FOR TYPE
FOR FOOTINGS, FOUNDATIONS AND SIZES, REFER TO STRUCT. DWGS.
100mm PERIMETER WEEPING TILE & FILTER SOCK WITH 20mm CLEAR STONE, 150mm THICK AT TOP AND SIDES OF WEEPING TILE AND 50mm BELOW C/W GEOTEXTILE CLOTH AROUND STONE. TYP.
REFER TO STRUCT. DWGS. FOR AMOUNT OF ENGINEERED FILL
4000
3800

6 / A11 *WALL SECTION @ FULL HEIGHT BRICK*
SCALE: 1 : 20

5 / A11 *WALL SECTION @ EXTERIOR GYM WALL AT GRIDLINE V*
SCALE: 1 : 20

4 / A11 *WALL SECTIONS @ WINDOWS*
SCALE: 1 : 20

3 / A11 *WALL SECTION @ LOWER ROOF OF ADMIN. AREA*
SCALE: 1 : 20

2 / A11 *WALL SECTION @ CURTAIN WALL*
SCALE: 1 : 20

1 / A11 *WALL SECTION @ LEARNING COMMONS CANOPY*
SCALE: 1 : 20

PROJECT NORTH

TRUE NORTH

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
02	ISSUED FOR BUILDING PERMIT	26/03/23
01	ISSUED FOR 85% COST ESTIMATE	26/03/09

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ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADOUCEUR
LICENCE 9053

CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

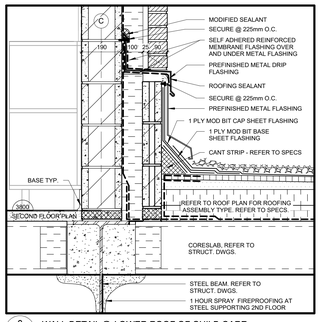
3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

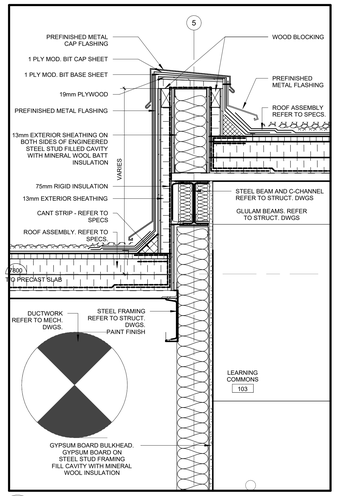
WALL SECTIONS & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-6264 Fax (905) 607-6090

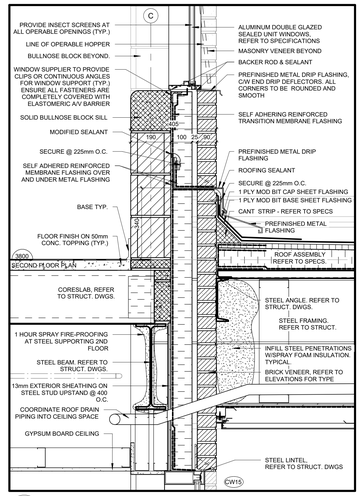
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NOV 2026	
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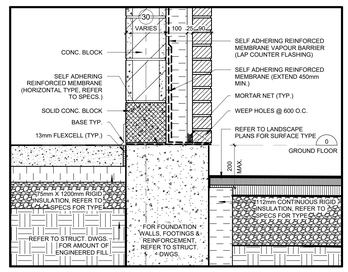
9 / A12 *WALL DETAIL @ LOWER ROOF OF CHILD CARE*
SCALE: 1 : 10



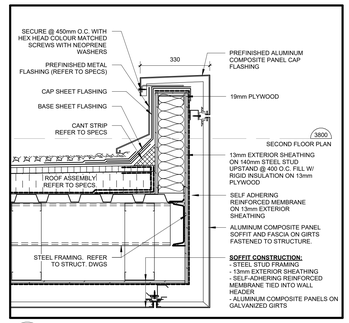
10 / A12 *SECTION DETAIL @ LEARNING COMMONS/FORUM ROOF CURB*
SCALE: 1 : 10



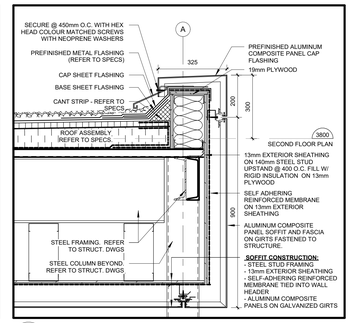
11 / A12 *SECTION DETAIL @ CHILD CARE CANOPY AT WALL*
SCALE: 1 : 10



13 / A12 *SECTION DETAIL - TYPICAL FOUNDATION*
SCALE: 1 : 10

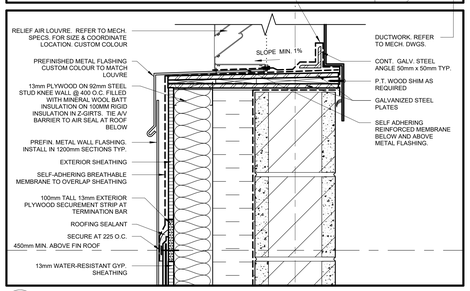


12 / A12 *SECTION DETAIL @ CHILD CARE CANOPY*
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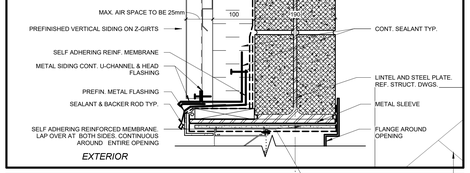


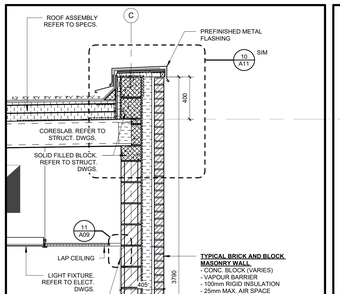
14 / A12 *SECTION DETAIL @ CHILD CARE CANOPY ENTRANCE*
SCALE: 1 : 10

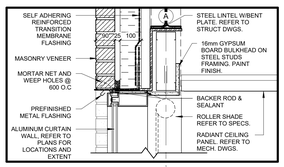
15 / A12 *SECTION DETAIL @ PRECAST SLAB AND CURTAIN WALL*
SCALE: 1 : 10

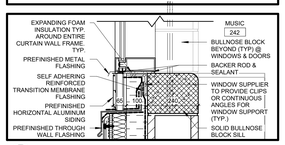


8 / A12 *SECTION DETAIL @ MECH. LOUVRE*
SCALE: 1 : 5

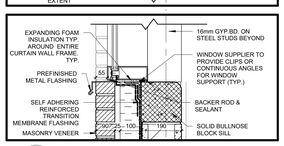




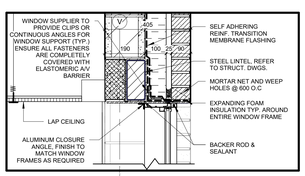


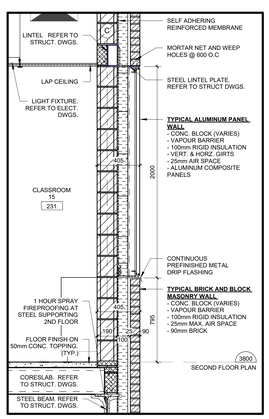


7 / A12 *CURTAIN WALL DETAIL @ HORIZ. SIDING*
SCALE: 1 : 10



6 / A12 *CURTAIN WALL DETAIL @ MASONRY VENEER*
SCALE: 1 : 10





5 / A12 *WINDOW SECTION DETAIL @ MANSONRY VENEER*
SCALE: 1 : 10

4 / A12 *WALL SECTION @ ALUMINUM COMPOSITE PANEL @ WINDOWS*
SCALE: 1 : 20

2 / A12 *WALL SECTION @ CHILD CARE CANOPY*
SCALE: 1 : 20

1 / A12 *WALL SECTION @ CHILD CARE CANOPY ENTRANCE*
SCALE: 1 : 20

PROJECT NORTH

TRUE NORTH

NO.	DESCRIPTION	DATE
.03	ISSUED FOR TENDER	26/11/04
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ONTARIO ASSOCIATION OF ARCHITECTS
PRISCILLA LADOUCEUR
LICENCE 6053
CERTIFICATE OF PRACTICE #4292

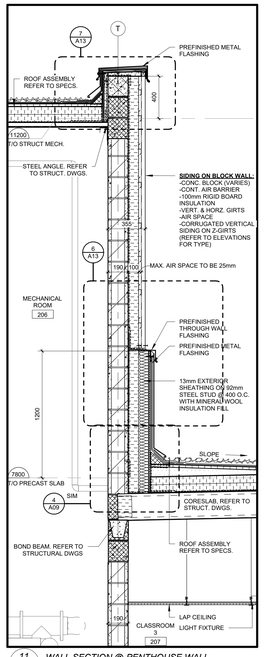
North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

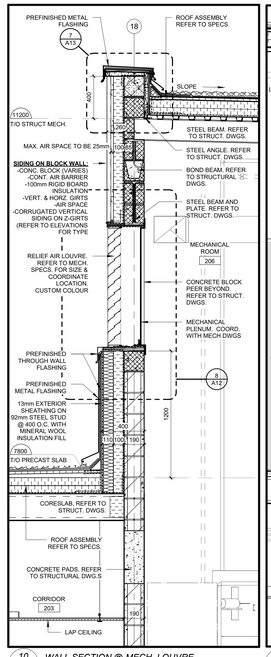
WALL SECTIONS & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2750 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-6060 Fax: (905) 607-6066

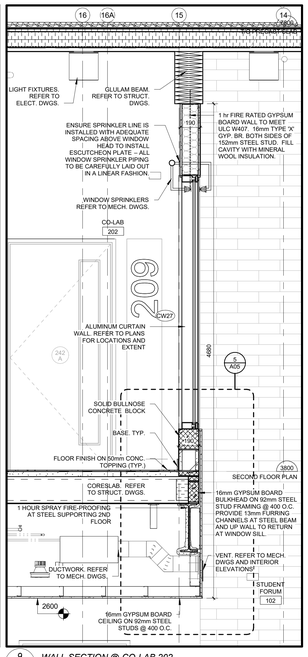
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PROJECT	24106
DATE	NOV 2026
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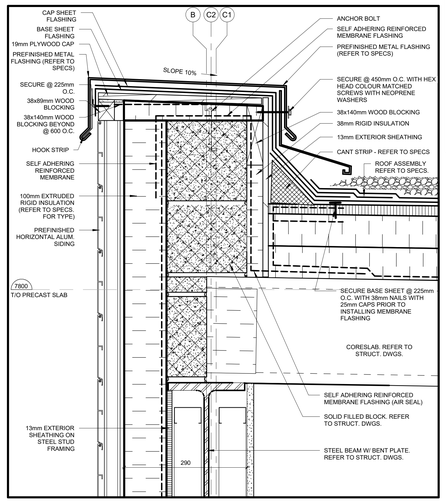
11 A13 WALL SECTION @ PENTHOUSE WALL
SCALE: 1 : 20



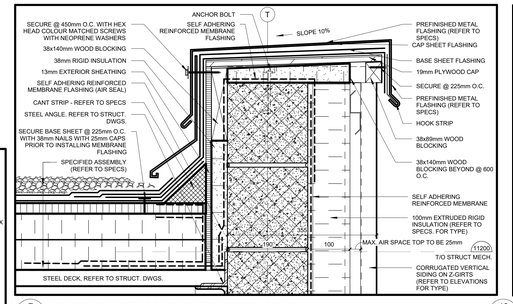
10 A13 WALL SECTION @ MECH. LOUVRE
SCALE: 1 : 20



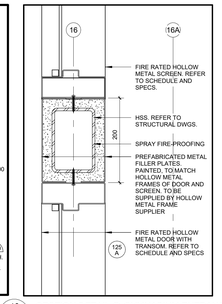
9 A13 WALL SECTION @ CO-LAB 202
SCALE: 1 : 20



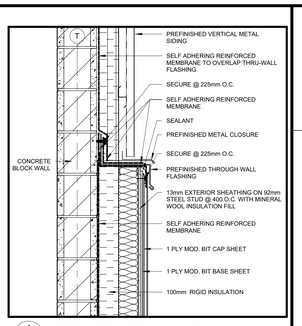
8 A13 SECTION PARAPET AT HORIZ. SIDING
SCALE: 1 : 5



7 A13 SECTION PARAPET AT CORRUGATED VERTICAL SIDING
SCALE: 1 : 5



12 A13 SECTION DETAIL @ GYMNASIUM ENTRANCE
SCALE: 1 : 5



6 A13 SECTION DETAIL @ THRU WALL FLASHING
SCALE: 1 : 10

5 A13 WALL SECTION THROUGH ELEVATOR SHAFT
SCALE: 1 : 20

4 A13 WALL SECTION THROUGH STAGE
SCALE: 1 : 20

3 A13 WALL SECTION @ 2 STOREY MASONRY VENEER
SCALE: 1 : 20

2 A13 WALL SECTION @ CORRIDOR 129
SCALE: 1 : 20

1 A13 WALL SECTION @ GYMNASIUM ENTRANCE
SCALE: 1 : 20

PROJECT NORTH

TRUE NORTH

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ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADOUCEUR
LICENCE
6053
CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

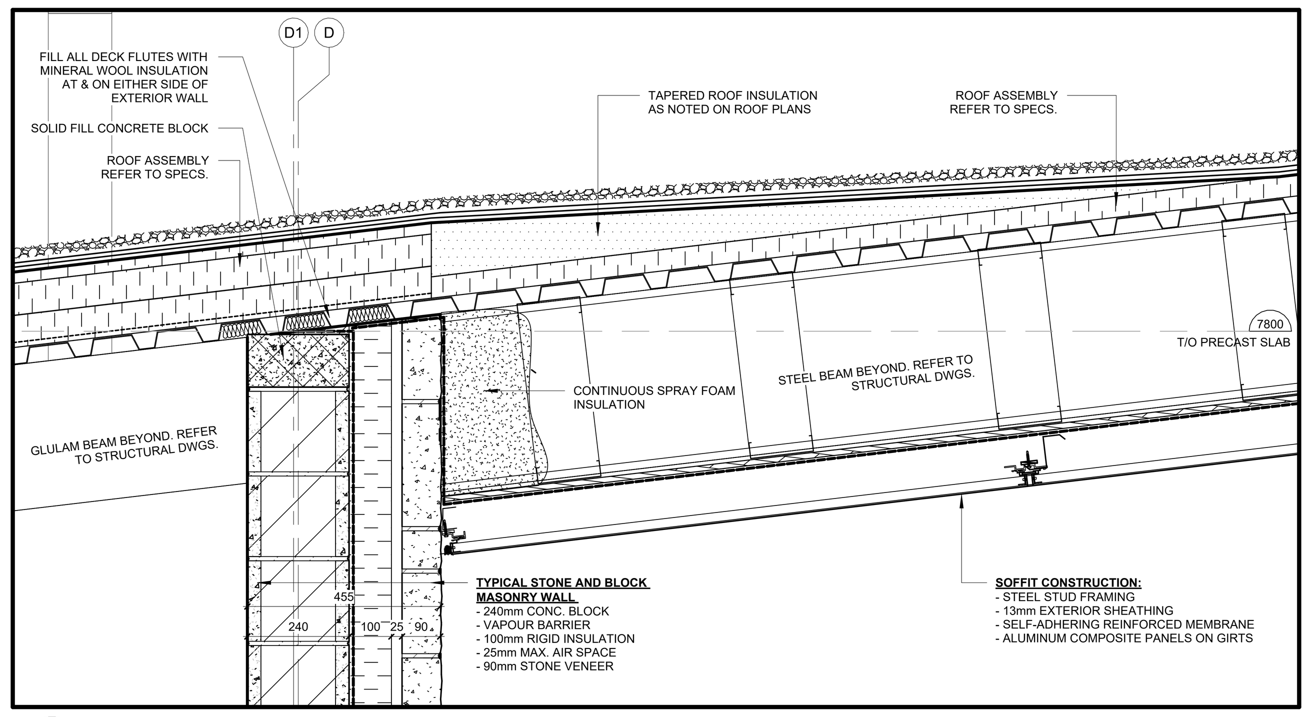
WALL SECTIONS & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUANN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8264 Fax (905) 607-8290

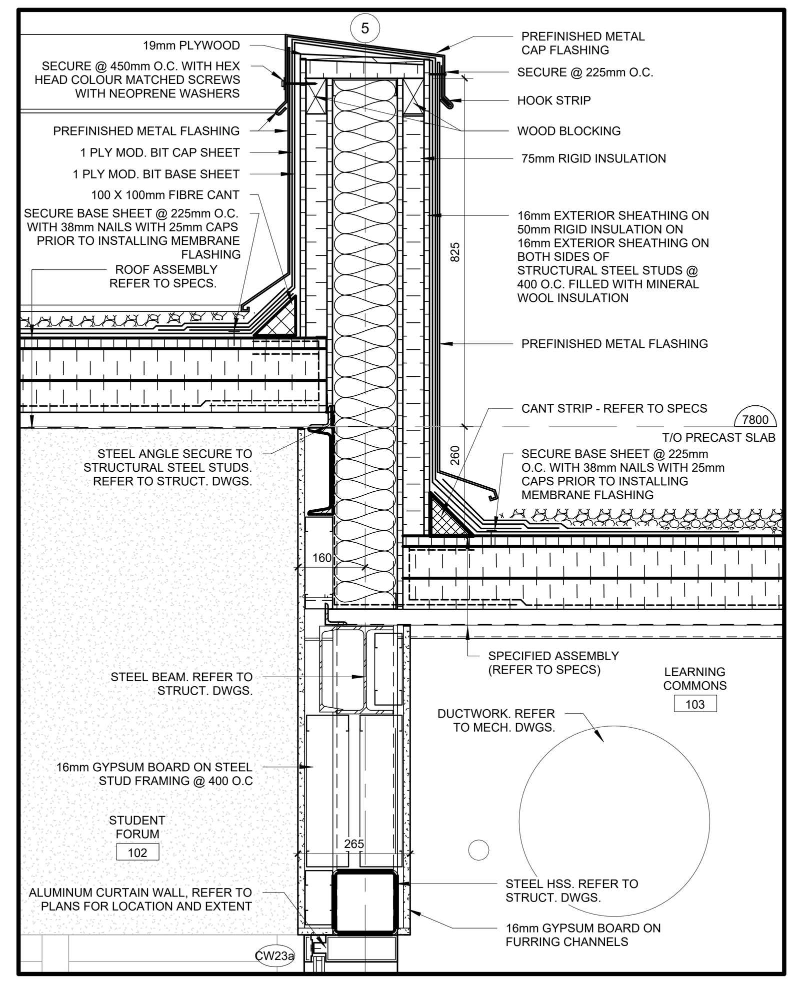
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PROJECT NORTH

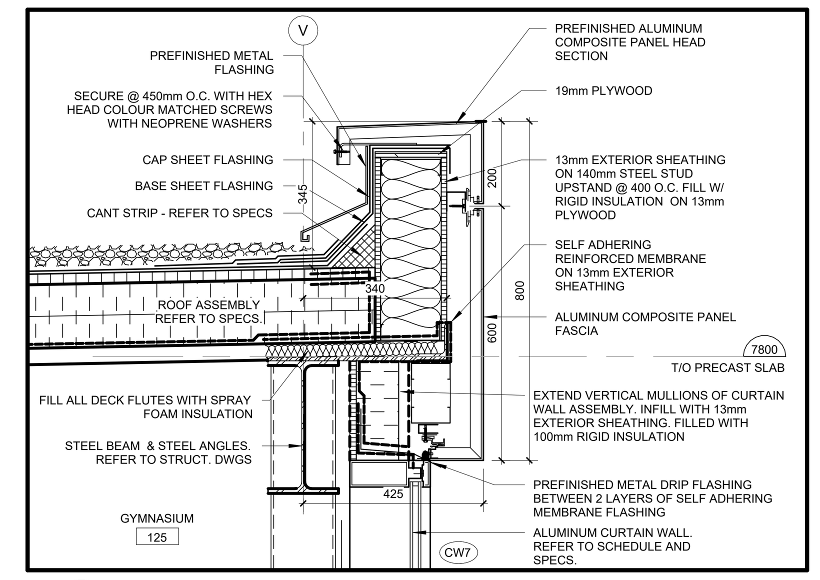
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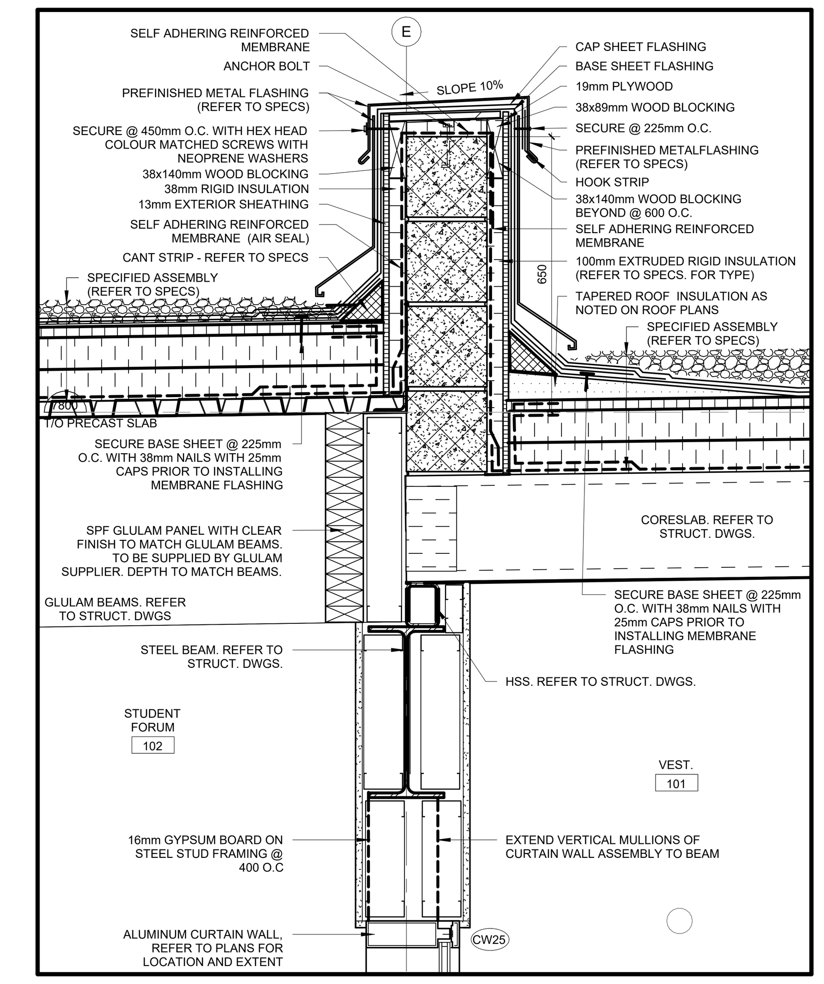
28 A14 ROOF TRANSITION AT ENTRANCE CANOPY AND LEARNING COMMON ROOF
SCALE: 1 : 10



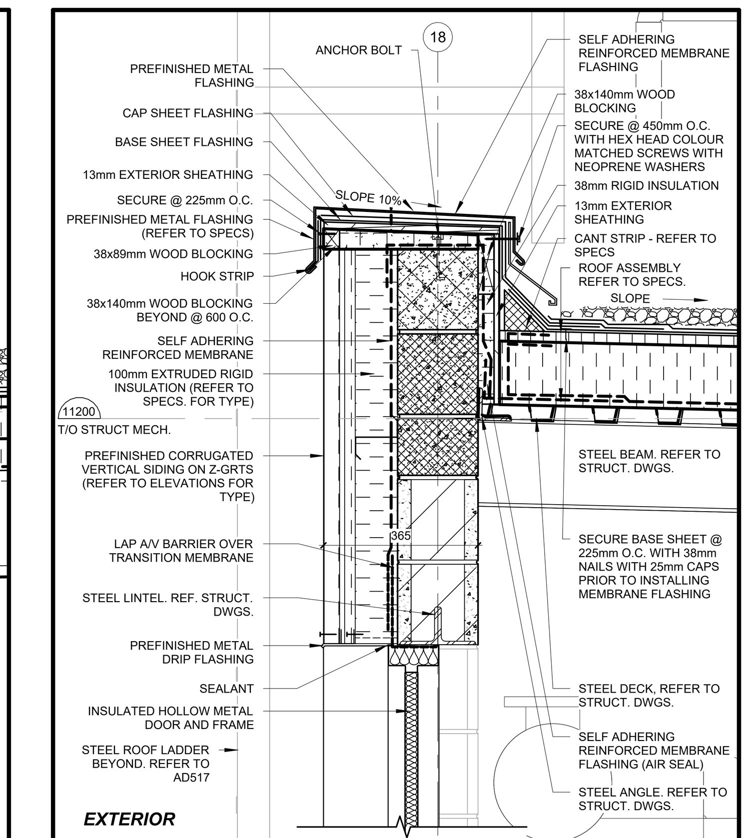
27 A14 SECTION DETAIL OF ROOF CURB AT GRIDLINE 5
SCALE: 1 : 10

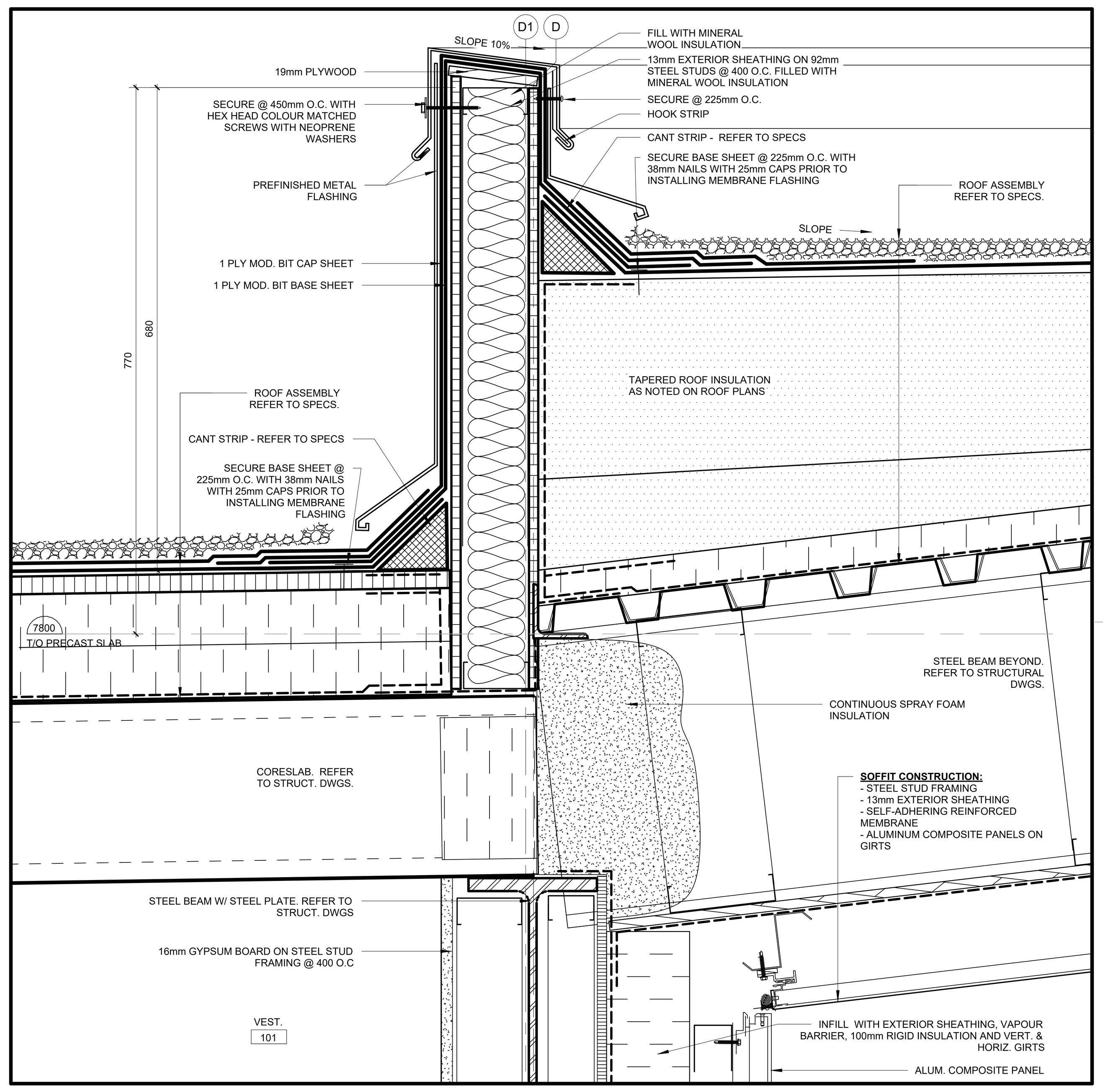


26 A14 SECTION DETAIL @ EXTERIOR GYM WALL PARAPET
SCALE: 1 : 10

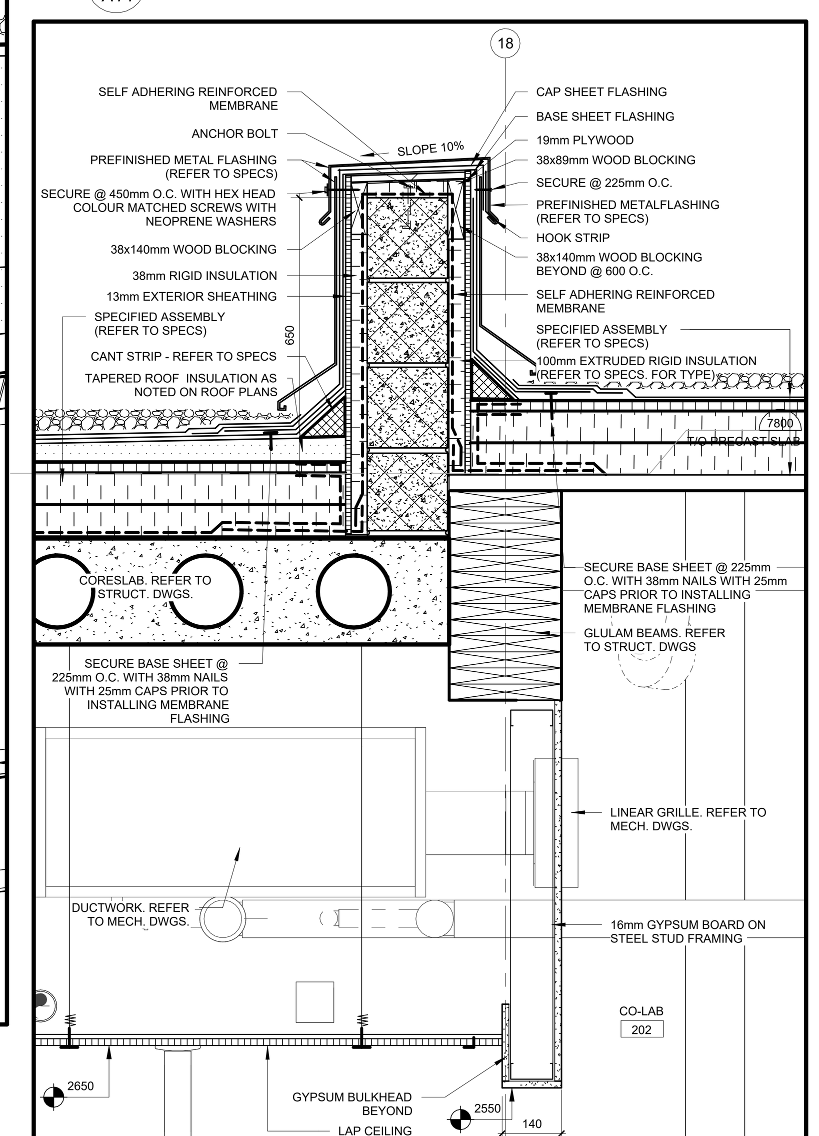


25 A14 ROOF CURB DETAIL AT PRECAST AND STEEL DECK ON GRIDLINE E - 2
SCALE: 1 : 10

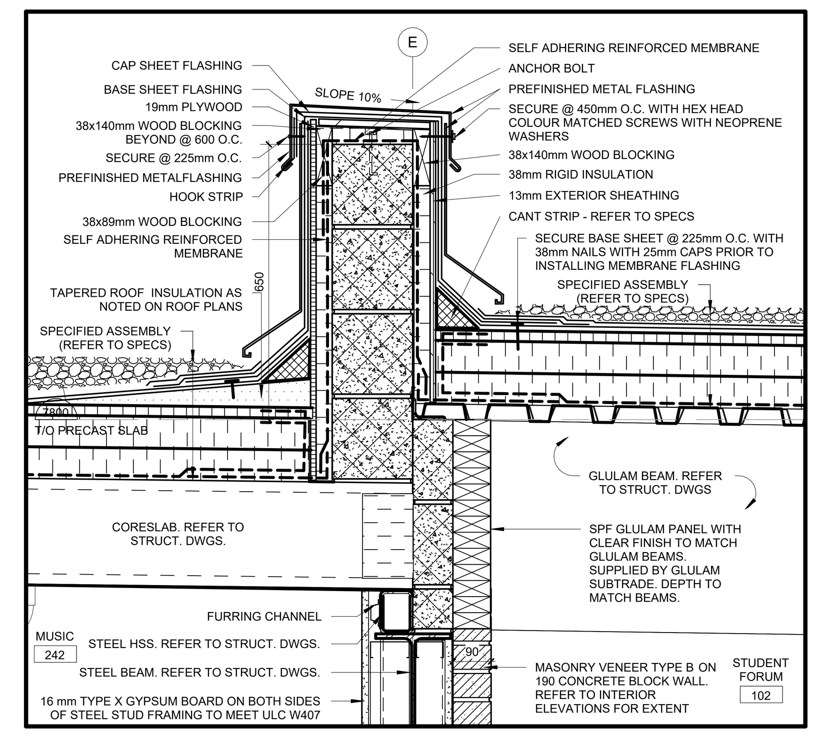




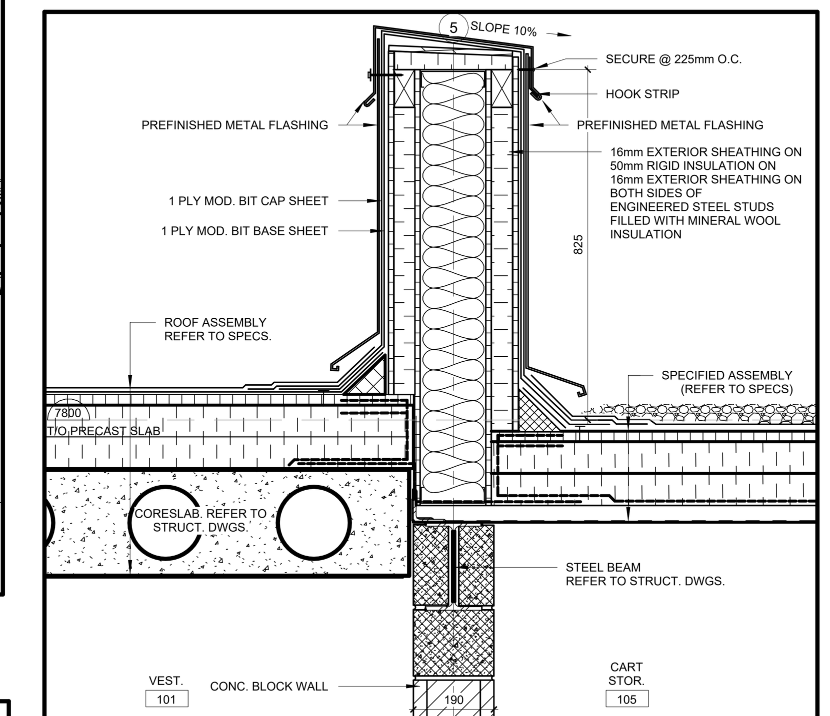
21 A14 ROOF CURB SECTION DETAIL AT ENTRANCE CANOPY AND VESTIBULE 101
SCALE: 1 : 5



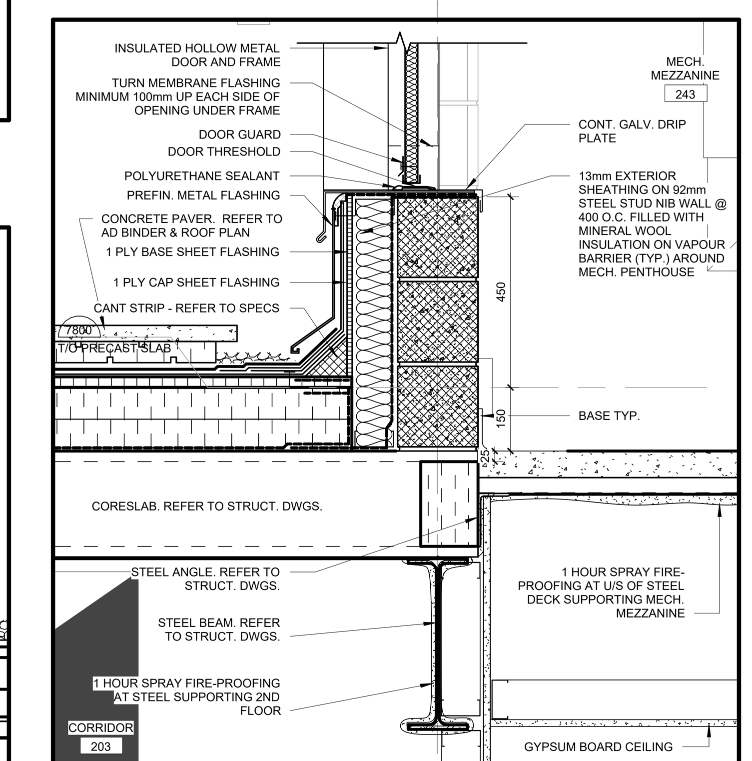
20 A14 SECTION DETAIL @ PRECAST SLAB AND STEEL DECK
SCALE: 1 : 10



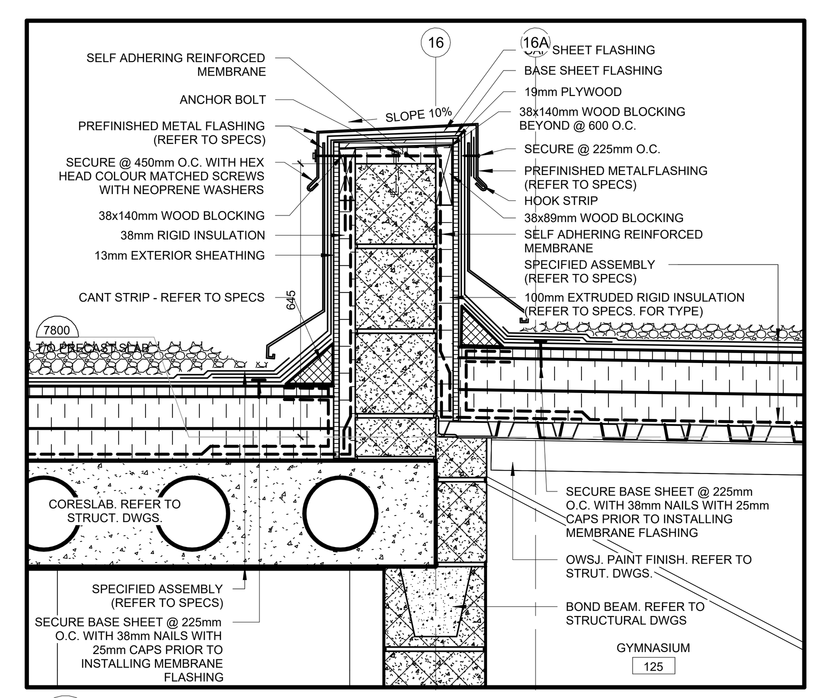
24 A14 ROOF CURB DETAIL AT PRECAST AND STEEL DECK ON GRIDLINE E
SCALE: 1 : 10



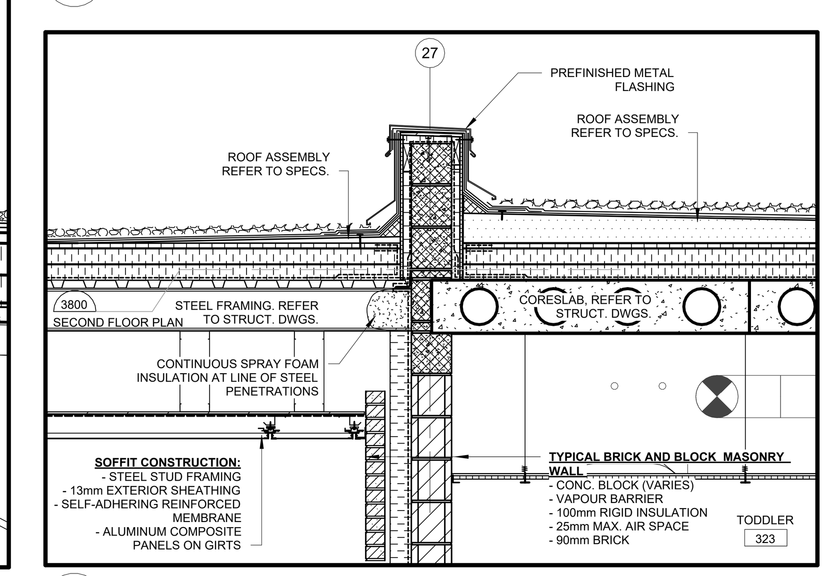
23 A14 ROOF CURB ALONG GRIDLINE 5
SCALE: 1 : 10



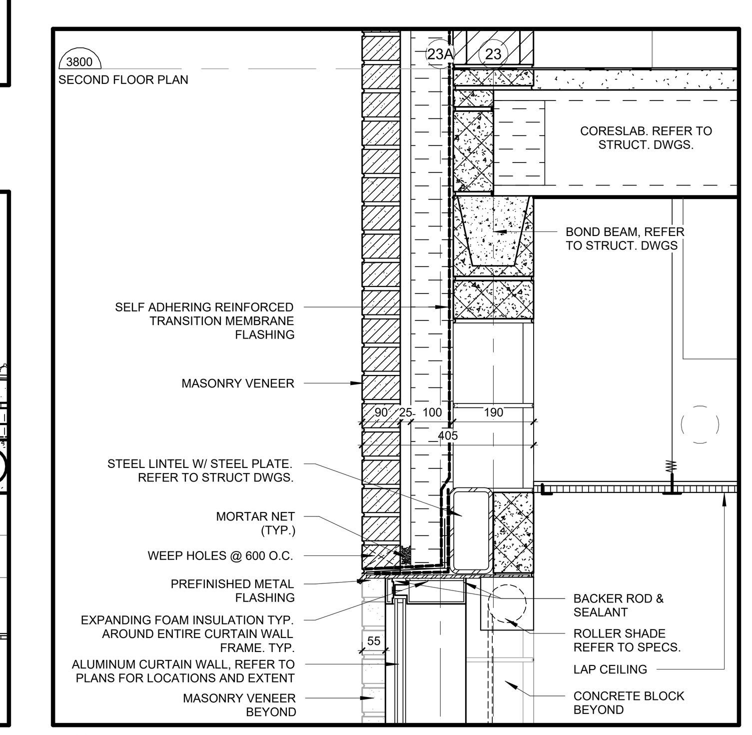
22 A14 SECTION DETAIL @ ROOF ACCESS DOOR FROM MECH. MEZZANINE
SCALE: 1 : 10



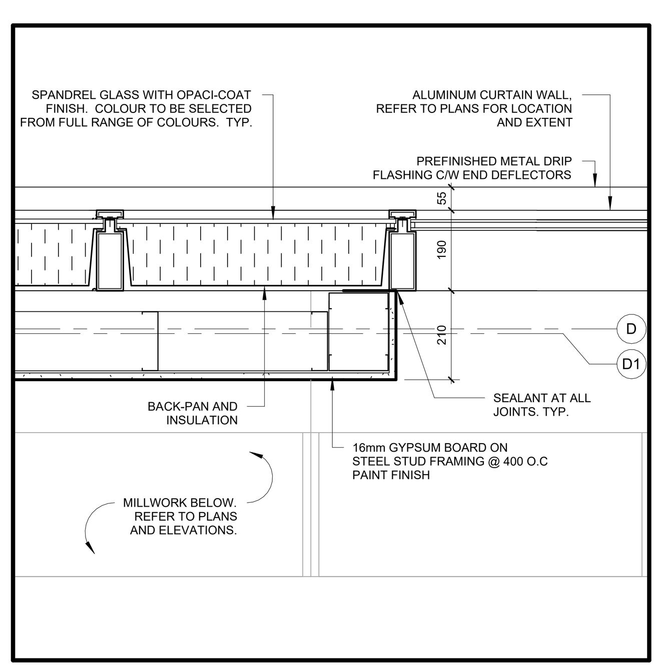
19 A14 PARAPET DETAIL @ STEEL DECK AND PRECAST SLAB
SCALE: 1 : 10



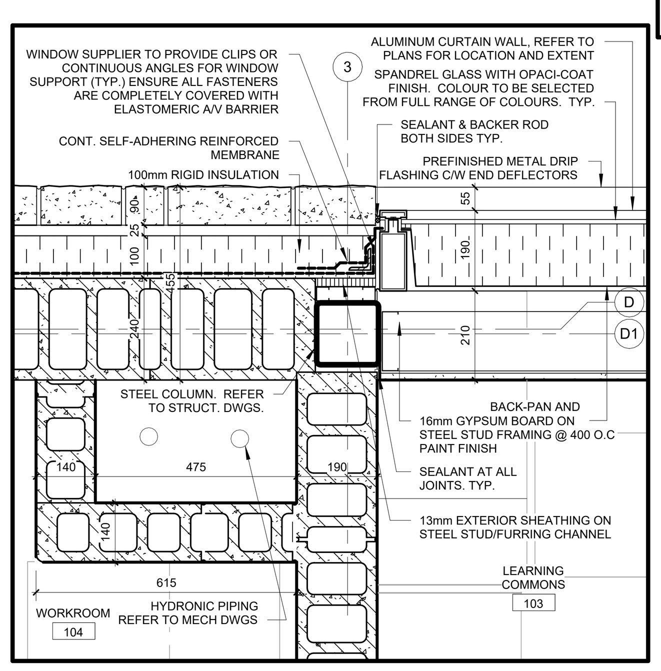
18 A14 SECTION DETAIL @ ROOF PARAPET AND CANOPY
SCALE: 1 : 20



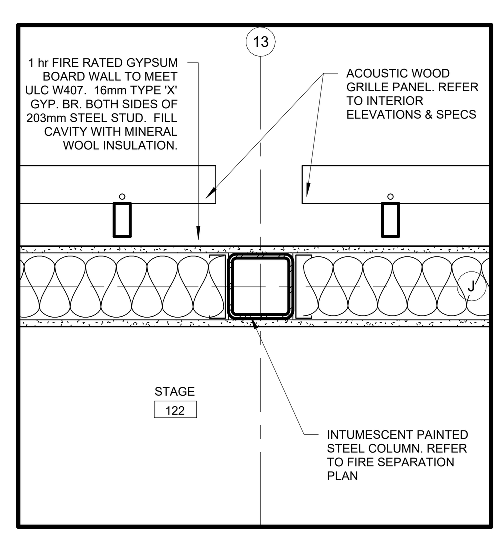
17 A14 SECTION DETAIL @ SPEC. ED CLASSROOM CURTAIN WALL HEADER
SCALE: 1 : 10



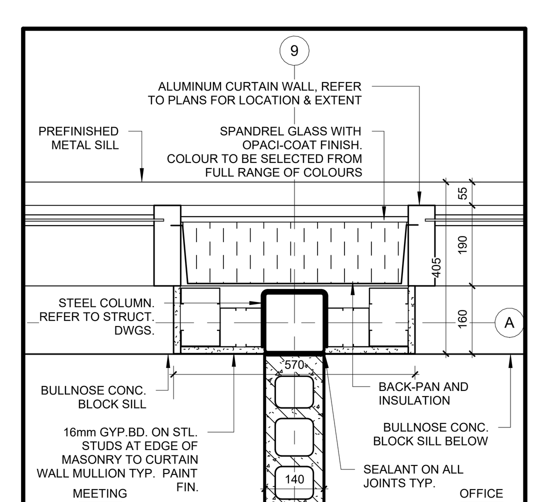
16 A14 PLAN DETAIL @ LEARNING COMMONS
SCALE: 1 : 10



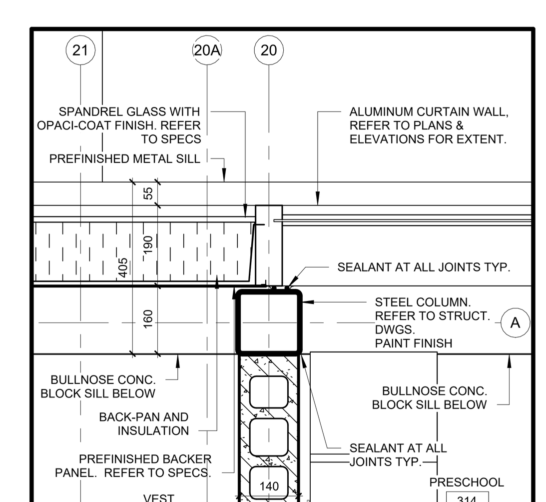
15 A14 PLAN DETAIL @ LEARNING COMMONS SPANDREL
SCALE: 1 : 10



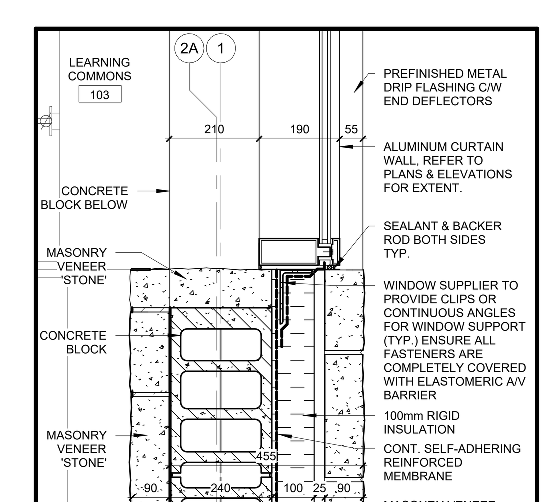
14 A14 TYP. DETAIL @ COLUMN ON STAGE & STUDENT FORUM
SCALE: 1 : 10



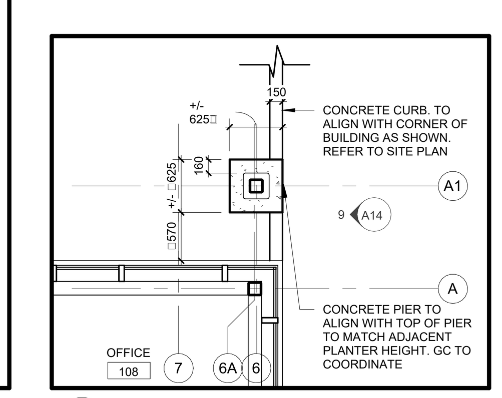
13 A14 BLOCK WALL AT SPANDREL PANEL
SCALE: 1 : 10



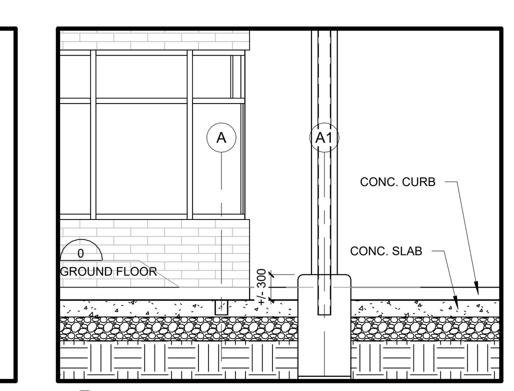
12 A14 COLUMN AT MULLION
SCALE: 1 : 10



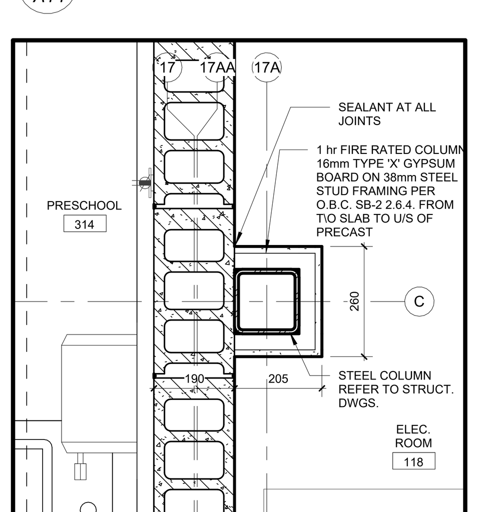
11 A14 PLAN DETAIL @ LEARNING COLUMN
SCALE: 1 : 10



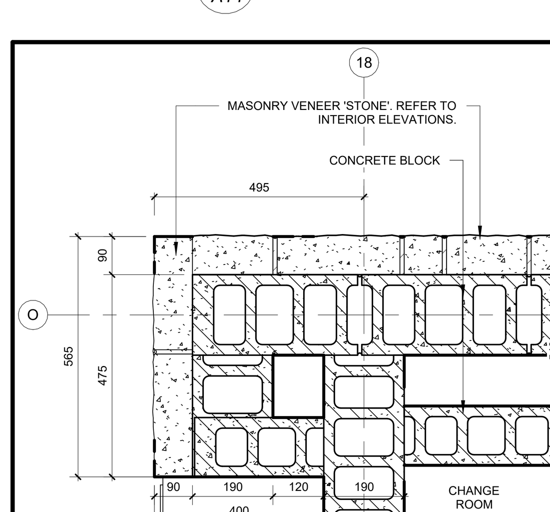
10 A14 PLAN DETAIL @ EXTERIOR COLUMN
SCALE: 1 : 50



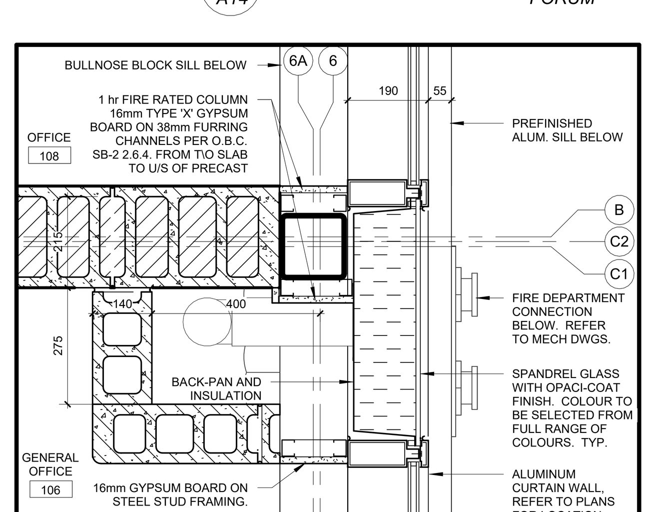
9 A14 ELEVATION - EXTERIOR COLUMN
SCALE: 1 : 50



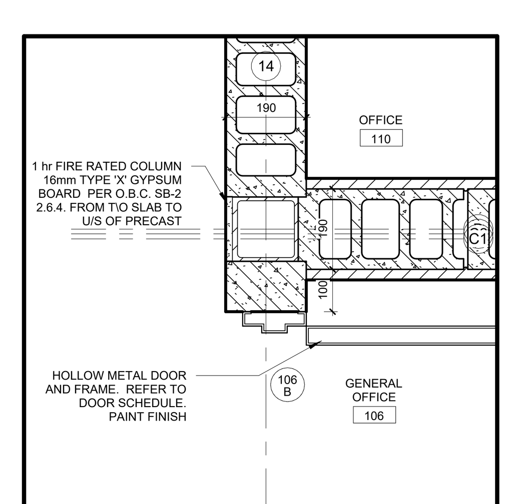
8 A14 PLAN DETAIL - FIRE RATED COLUMN
SCALE: 1 : 10



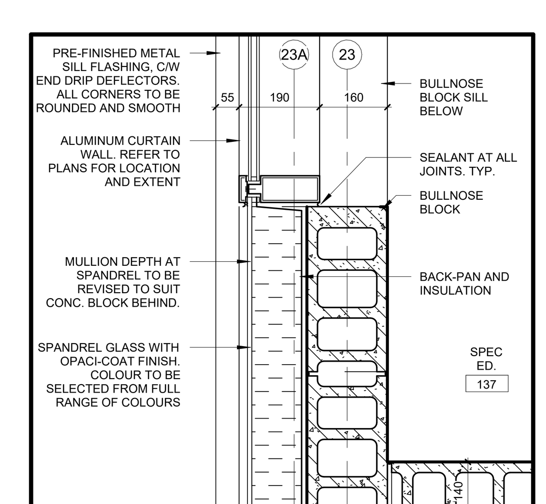
7 A14 PLAN DETAIL @ STONE VENEER CORNER
SCALE: 1 : 10



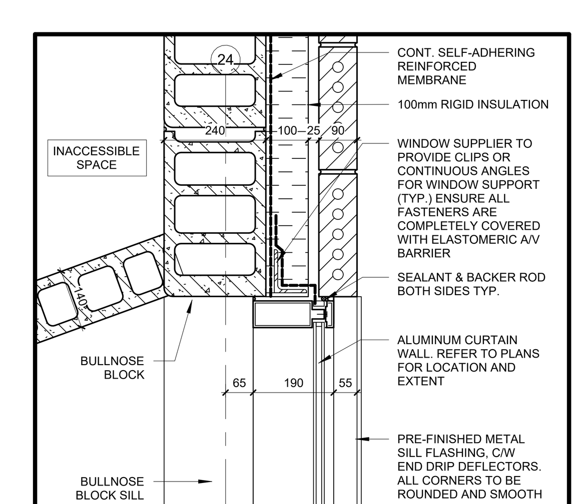
6 A14 DETAIL OF COLUMN AT CURTAIN WALL MULLION
SCALE: 1 : 10



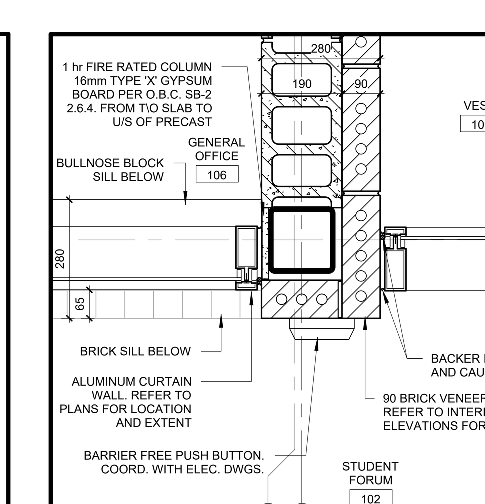
5 A14 FIRE RATING AT COLUMN
SCALE: 1 : 10



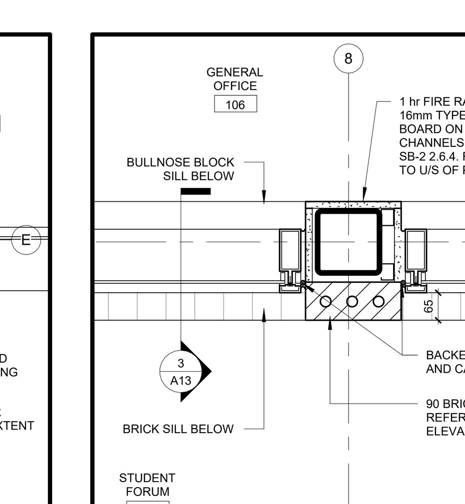
4 A14 BLOCK WALL AT MULLION
SCALE: 1 : 10



3 A14 PLAN DETAIL @ STAIR
SCALE: 1 : 10



2 A14 PLAN DETAIL @ OFFICE CORNER
SCALE: 1 : 10



1 A14 PLAN DETAIL @ RATED COLUMN
SCALE: 1 : 10

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
02	ISSUED FOR BUILDING PERMIT	26/03/23
01	ISSUED FOR 85% COST ESTIMATE	26/03/09

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

ONTARIO ASSOCIATION OF ARCHITECTS NOV. 5/26 PRISCILLA LADOUCEUR LICENCE 6053

CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

3500 POST RD.
OAKVILLE, ON

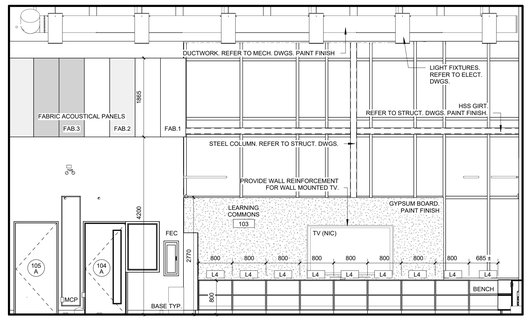
HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

PLAN & SECTION DETAILS

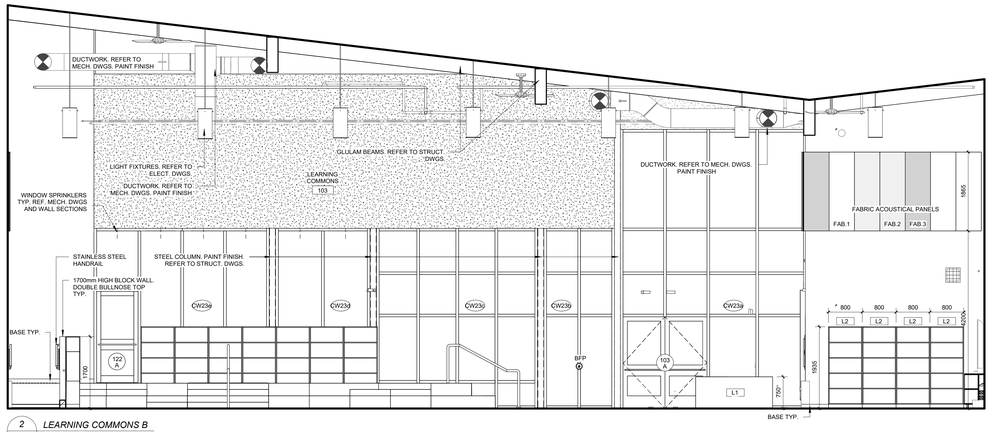
HOSSACK & ASSOCIATES ARCHITECTS

4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8284 Fax (905) 607-8290

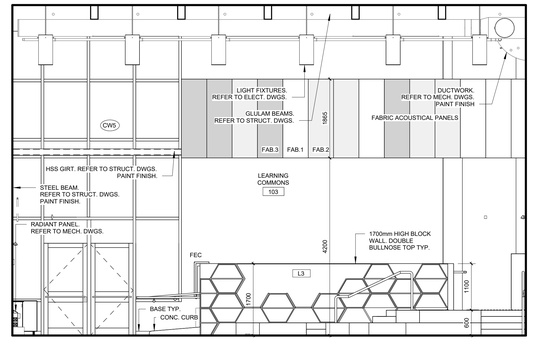
SCALE As indicated	PROJECT 24106
DATE NOV 2026	
DRAWN RS	DRAWING A14
CHECKED PL	
PRINT DATE	2026-11-05 10:10:31 AM
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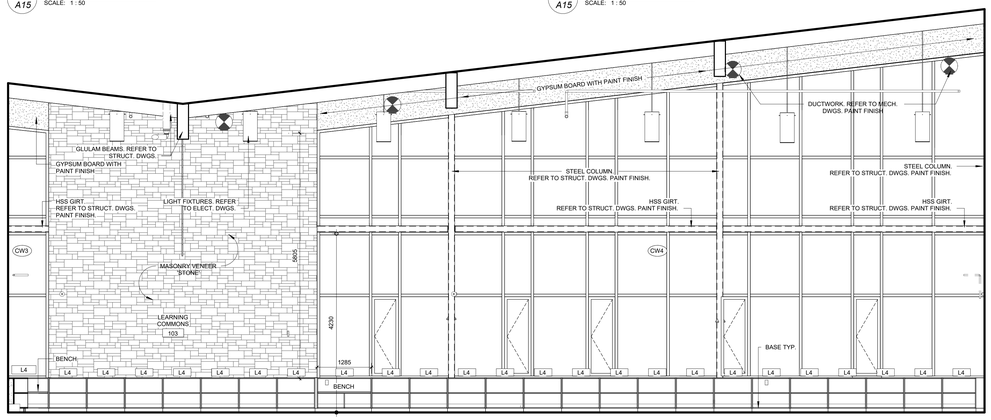
1 A15 *LEARNING COMMONS A*
SCALE: 1 : 50



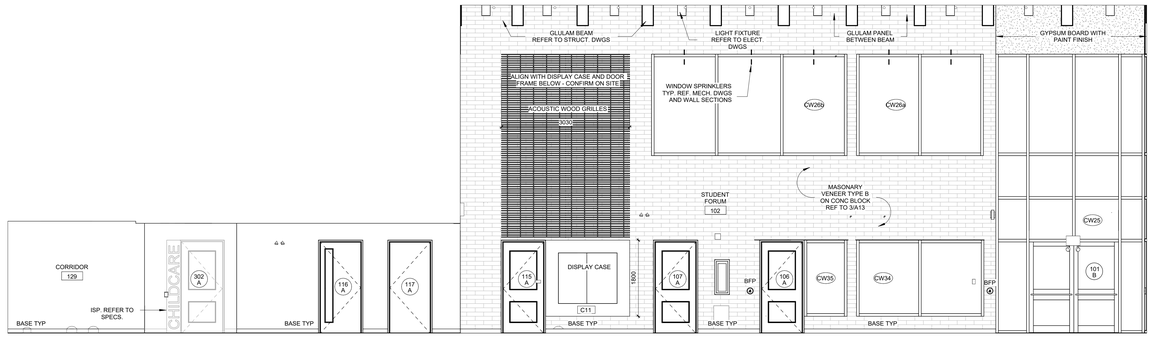
2 A15 *LEARNING COMMONS B*
SCALE: 1 : 50



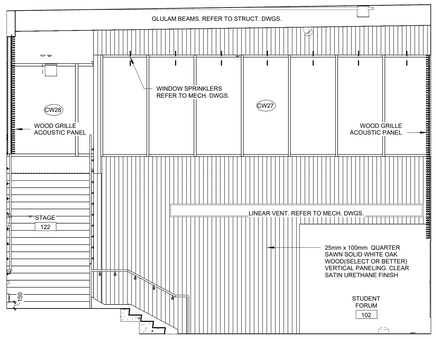
3 A15 *LEARNING COMMONS C*
SCALE: 1 : 50



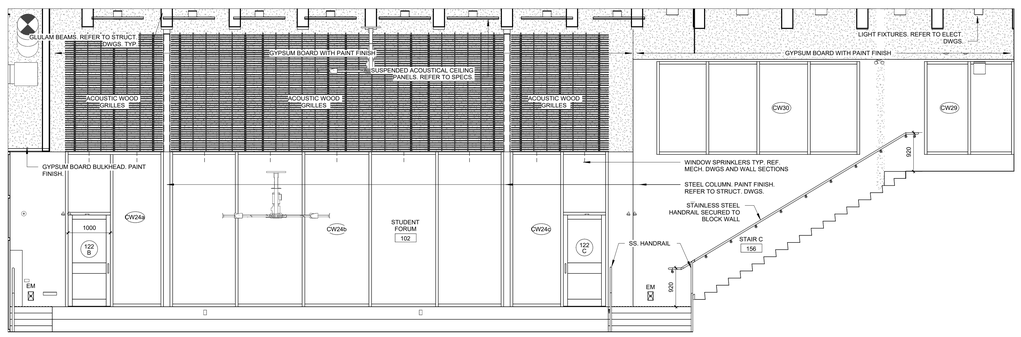
4 A15 *LEARNING COMMONS D*
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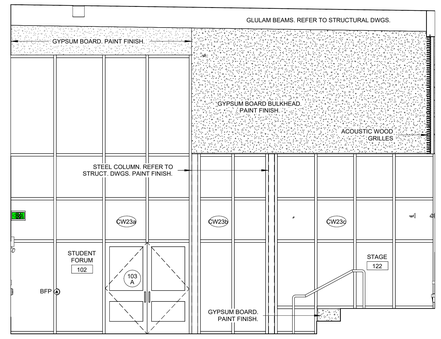
5 A15 *STUDENT FORUM 102 - A*
SCALE: 1 : 50



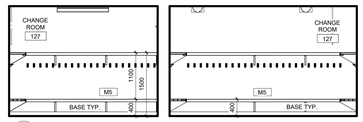
6 A15 *STUDENT FORUM 102 - B*
SCALE: 1 : 50



7 A15 *STUDENT FORUM 102 - C*
SCALE: 1 : 50

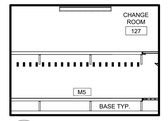


8 A15 *STUDENT FORUM 102 - D*
SCALE: 1 : 50

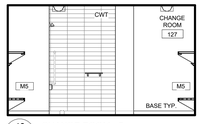


9 A15 *CHANGE ROOM - A*
SCALE: 1 : 50

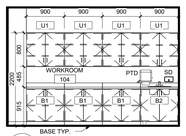
10 A15 *CHANGE ROOM - B*
SCALE: 1 : 50



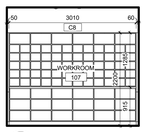
11 A15 *CHANGE ROOM - C*
SCALE: 1 : 50



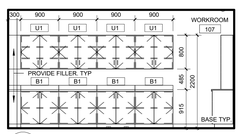
12 A15 *CHANGE ROOM - D*
SCALE: 1 : 50



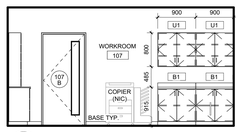
13 A15 *WORKROOM 104*
SCALE: 1 : 50



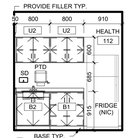
14 A15 *WORKROOM 107 - A*
SCALE: 1 : 50



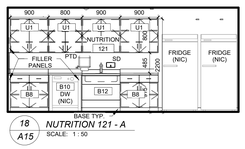
15 A15 *WORKROOM 107 - B*
SCALE: 1 : 50



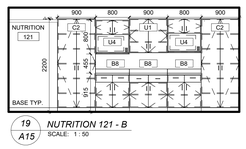
16 A15 *WORKROOM - C*
SCALE: 1 : 50



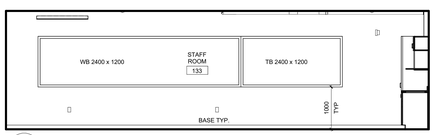
17 A15 *HEALTH 112*
SCALE: 1 : 50



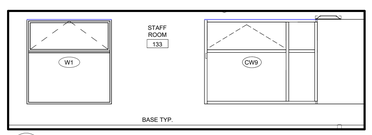
18 A15 *NUTRITION 121 - A*
SCALE: 1 : 50



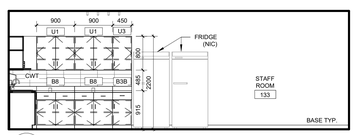
19 A15 *NUTRITION 121 - B*
SCALE: 1 : 50



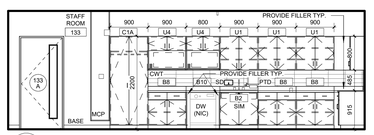
20 A15 *STAFF ROOM 133 - A*
SCALE: 1 : 50



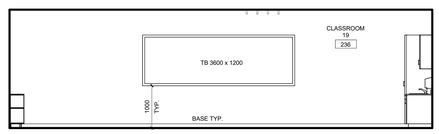
21 A15 *STAFF ROOM 133 - B*
SCALE: 1 : 50



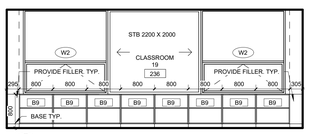
22 A15 *STAFF ROOM 133 - C*
SCALE: 1 : 50



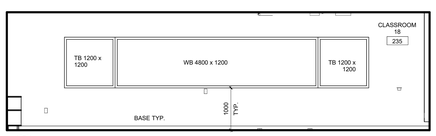
23 A15 *STAFF ROOM 133 - D*
SCALE: 1 : 50



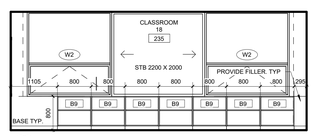
28 A15 *STANDARD CLASSROOM - A*
SCALE: 1 : 50



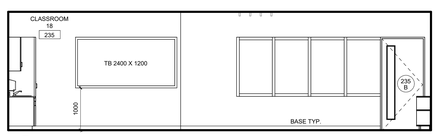
29 A15 *STANDARD CLASSROOM - B*
SCALE: 1 : 50



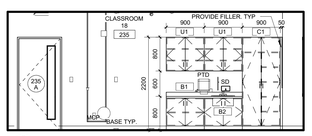
24 A15 *CLASSROOM - A*
SCALE: 1 : 50



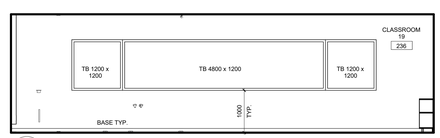
25 A15 *CLASSROOM - B*
SCALE: 1 : 50



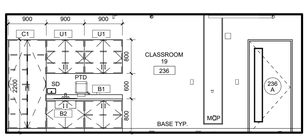
26 A15 *CLASSROOM - C*
SCALE: 1 : 50



27 A15 *CLASSROOM - D*
SCALE: 1 : 50



30 A15 *STANDARD CLASSROOM - C*
SCALE: 1 : 50



31 A15 *STANDARD CLASSROOM - D*
SCALE: 1 : 50

PROJECT NORTH

TRUE NORTH

ABBREVIATION LEGEND

A	ACTIVE DOOR LEAF
ACP	ALUMINUM COMPOSITE PANEL
AD	ARCHITECTURAL DETAILS
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
BB	BULLETIN BOARD - REFER TO SPECS
BD	BOARD
BF	BOTTLE FILLER
B/F	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFP-L	BARRIER FREE PUSH BUTTON LOCK
BH	BREAK-AWAY HOOK
BV	BRICK VENT
CJ	CONTROL JOINT
CH	CABINET HEATER (RECESSED)
CHsr	CABINET HEATER (SEMI-RECESSED)
CHT	CHANGE TABLE STATION REFER TO SPEC
CR+S	COAT RACK AND SHELF
CS	CONVENIENCE SHELF
CW	COMPLETE WITH
CWT	CERAMIC WALL TILE
DF	DRINKING FOUNTAIN
DW	DISHWASHER
EM	ELECTROMAGNETIC HOLD OPEN DEVICE
EP	ELECTRICAL PANEL. REF. ELEC. DWGS.
EPC	EMERGENCY PULL CORD
EW	EYE WASH STATION
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FB	FIRE BLANKET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FRGB	FIRE RATED GYPSUM BOARD
FSS	FOLDING SHOWER SEAT
GALV	GALVANIZED
GB	GYPSUM BOARD
GR	GRAB BAR
GBL	GRAB BAR "L" SHAPE
GBF	GRAB BAR "FOLDING"
GM	GAS METER
HD	HAND DRYER
HL	HANDICAP LOCKER
HM	HOLLOW METAL
HSS	HOLLOW STRUCTURAL STEEL
IPS	INTERIOR SIGNAGE PANEL
JS	JANITORIAL SHELF
LF	LIGHT FIXTURE
LKRS	LOCKERS
M	MIRROR
MC	MIRROR IN CHILD CARE ROOMS
ML	LONG MIRROR
MLH	LONG MIRROR - HORIZONTAL
MCP	MODULAR CONTROL PANEL
MRS	MOTORIZED ROLLER SHADE
MS	MOP SINK
NIC	NOT IN CONTRACT
PAS	PUBLIC ANNOUNCEMENT SYSTEM
PREFIN	PREFINISHED
PCT	PRIVACY CURTAIN AND TRACK
PMP-1	PERFORATED METAL PANEL
PTD	PAPER TOWEL DISPENSER
PTW	PAPER TOWEL + WASTE RECEPTACLE
RD	ROOF DRAIN
REINF	REINFORCING
RF	REFRIGERATOR
RHM	REMOVABLE HARDWARE MULLION
RS	ROLLER SHADE REFER TO SPECS
RWL	RAIN WATER LEADER
SC	SOLID METAL WINDOW SCREEN
SD	SOAP DISPENSER
SFS	STRUCTURAL FROST SLAB
SIM.	SIMILAR
SN	SANITARY NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
SR+C	SHOWER ROD + CURTAIN
STB	SLIDDING TACKBOARD
SP	SPANDREL PANEL
TB	TACKBOARD
TD	TOILET PAPER DISPENSER
TM	TILT MIRROR
TWB	TOWEL BAR
VS	VERTICAL SHEETOP
WB	WHITEBOARD
WD	WASHER/DRYER NIC
WM	WIREMOLD
WR	WASHROOM

WINDOW SPRINKLERS TYP. TO BE CENTERED BETWEEN MULLIONS

NO.	DESCRIPTION	DATE
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ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LAOUCUEUR
LICENCE
6053
CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

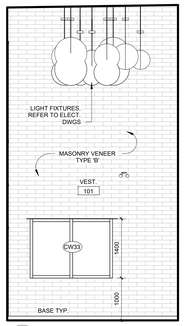
3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

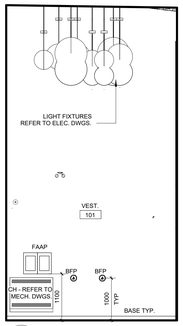
INTERIOR ELEVATIONS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 1M8
Tel (905) 607-6394 Fax (905) 607-6396

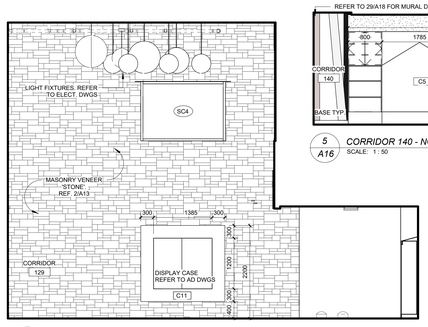
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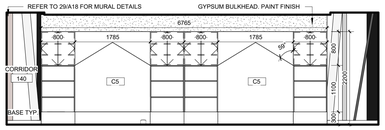
1 A16 VESTIBULE 101 - A
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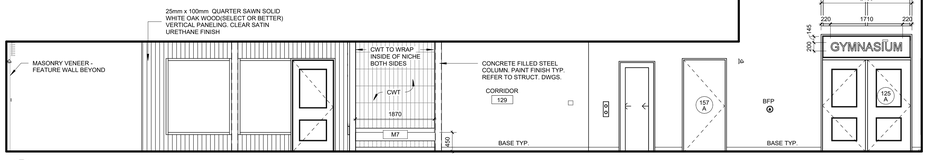
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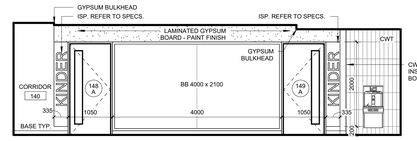
3 A16 CORRIDOR 129 - B
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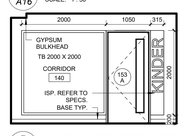
5 A16 CORRIDOR 140 - NOOKS
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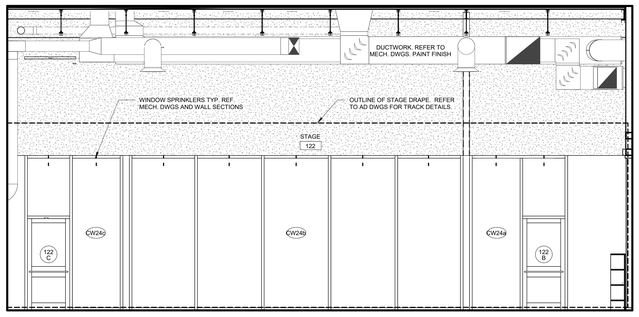
4 A16 CORRIDOR 129 - A
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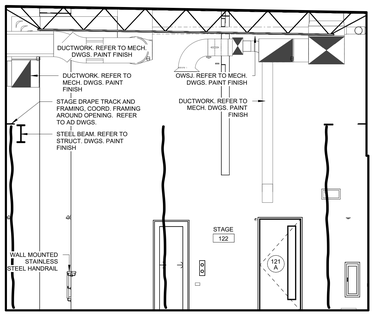
6 A16 KINDERGARTEN ENTRANCE TYPE A
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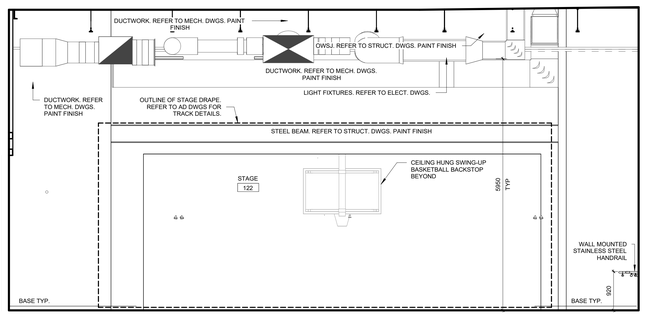
7 A16 KINDERGARTEN ENTRANCE TYPE B
SCALE: 1 : 50



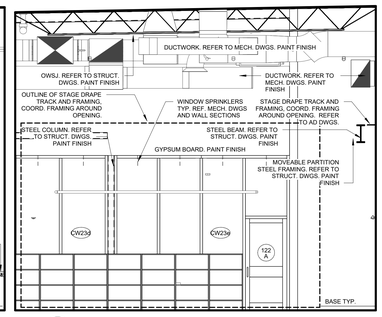
9 A16 STAGE - A
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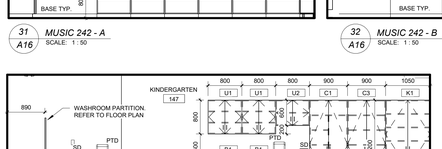
10 A16 STAGE - B
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11 A16 STAGE - C
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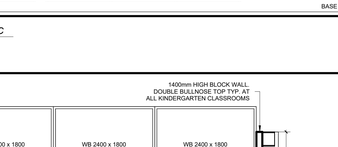
12 A16 STAGE - D
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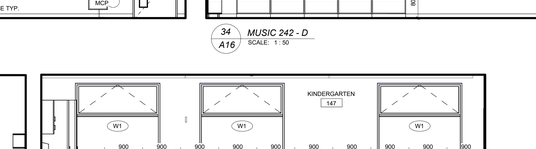
13 A16 SPECIAL ED 137 - A
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14 A16 SPECIAL ED 137 - B
SCALE: 1 : 50



15 A16 SPECIAL ED 137 - C
SCALE: 1 : 50



16 A16 SPECIAL ED 137 - D
SCALE: 1 : 50



17 A16 CO-LAB 202 - A
SCALE: 1 : 50

18 A16 CO-LAB 202 - B
SCALE: 1 : 50

19 A16 CO-LAB 202 & CORRIDOR 203 - A
SCALE: 1 : 50

20 A16 CORRIDOR 203 - A
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21 A16 CORRIDOR 203 - B
SCALE: 1 : 50

22 A16 CORRIDOR 203 - C
SCALE: 1 : 50

23 A16 SCIENCE 238 - A
SCALE: 1 : 50

24 A16 SCIENCE 238 - B
SCALE: 1 : 50

25 A16 SCIENCE 238 - C
SCALE: 1 : 50

26 A16 SCIENCE 238 - D
SCALE: 1 : 50

27 A16 ART 239 - A
SCALE: 1 : 50

28 A16 ART 239 - B
SCALE: 1 : 50

29 A16 ART 239 - C
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30 A16 ART 239 - D
SCALE: 1 : 50

31 A16 MUSIC 242 - A
SCALE: 1 : 50

32 A16 MUSIC 242 - B
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33 A16 MUSIC 242 - C
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34 A16 MUSIC 242 - D
SCALE: 1 : 50

35 A16 KINDERGARTEN CLASSROOM - A
SCALE: 1 : 50

36 A16 KINDERGARTEN CLASSROOM - B
SCALE: 1 : 50

37 A16 KINDERGARTEN CLASSROOM - C
SCALE: 1 : 50

38 A16 KINDERGARTEN CLASSROOM - D
SCALE: 1 : 50

PROJECT NORTH

TRUE NORTH

ABBREVIATION LEGEND

A	ACTIVE DOOR LEAF
ACP	ALUMINUM COMPOSITE PANEL
AD	ARCHITECTURAL DETAILS
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
BB	BULLETIN BOARD - REFER TO SPECS
BD	BOARD
BF	BOTTLE FILLER
B/F	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFP-L	BARRIER FREE PUSH BUTTON LOCK
BH	BREAK-AWAY HOOK
BV	BRICK VENT
CJ	CONTROL JOINT
CH	CABINET HEATER (RECESSED)
CHF	CABINET HEATER (SEMI-RECESSED)
CHWS	CHART RACK & STATION REFER TO SPEC
CS	CONVENIENCE SHELF
C/W	COMPLETE WITH
CWT	CERAMIC WALL TILE
DF	DRINKING FOUNTAIN
D/W	DISHWASHER
EM	ELECTROMAGNETIC HOLD OPEN DEVICE
EP	ELECTRICAL PANEL. REF. ELEC. DWGS.
EPC	EMERGENCY PULL CORD
EW	EYE WASH STATION
FAAP	FIRE ALARM ANNUCIATOR PANEL
FB	FIRE BLANKET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FRGB	FIRE RATED GYPSUM BOARD
FSS	FOLDING SHOWER SEAT
GALV	GALVANIZED
GYP	GYPSUM BOARD
GB	GRAB BAR
GBL	GRAB BAR "L" SHAPE
GBF	GRAB BAR "FOLDING"
GM	GAS METER
HD	HAND DRYER
HL	HANDICAP LOCKER
HM	HOLLOW METAL
HSS	HOLLOW STRUCTURAL STEEL
IPS	INTERIOR SIGNAGE PANEL
JS	JANITORIAL SHELF
LF	LIGHT FIXTURE
LKRS	LOCKERS
M	MIRROR
MC	MIRROR IN CHILD CARE ROOMS
ML	LONG MIRROR
MLH	LONG MIRROR - HORIZONTAL
MCP	MODULAR CONTROL PANEL
MRS	MOTORIZED ROLLER SHADE
MS	MOP SINK
NIC	NOT IN CONTRACT
PAS	PUBLIC ANNOUNCEMENT SYSTEM
PREFIN	PREFINISHED
PCT	PRIVACY CURTAIN AND TRACK
PMP-1	PERFORATED METAL PANEL
PTD	PAPER TOWEL DISPENSER
PTW	PAPER TOWEL + WASTE RECEPTACLE
RD	ROOF DRAIN
REINF	ROOF OPENING
REF	REFRIGERATOR
RHM	REMOVABLE HARDWARE MULLION
RS	ROLLER SHADE REFER TO SPECS
RWL	RAIN WATER LEADER
SC	HOLLOW METAL WINDOW SCREEN
SD	SOAP DISPENSER
SFS	STRUCTURAL FROST SLAB
SIM.	SIMILAR
SN	SANITARY NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
SR+C	SHOWER ROD + CURTAIN
STB	SLIDING TACKBOARD
SP	SPANDREL PANEL
TB	TACKBOARD
TD	TOILET PAPER DISPENSER
TM	TILT MIRROR
TWB	TOWEL BAR
VFS	VERTICAL FIRESTOP
WB	WHITEBOARD
WD	WASHER/ DRYER NIC
WM	WIREMOLD
WR	WASHROOM

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
02	ISSUED FOR BUILDING PERMIT	26/03/23
01	ISSUED FOR 85% COST ESTIMATE	26/03/09

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LAOUCOUEUR
LICENCE 6053

CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

INTERIOR ELEVATIONS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-8284 Fax: (905) 607-8290

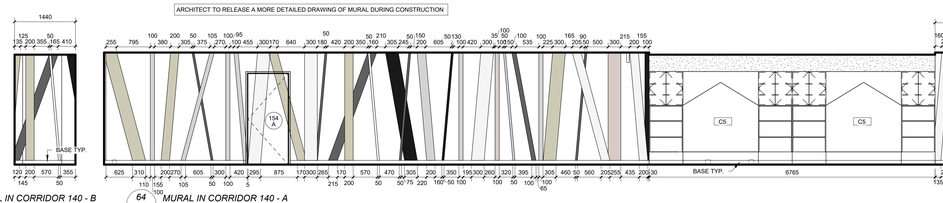
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MURAL PAINT LEGEND

- PAINT 1
- PAINT 2
- PAINT 3
- PAINT 4
- PAINT 5
- PAINT 6

CONTRACTOR TO ALLOW 6 PAINT COLOURS FOR THIS MURAL. COLOURS TO BE PICKED BY ARCHITECT DURING CONSTRUCTION

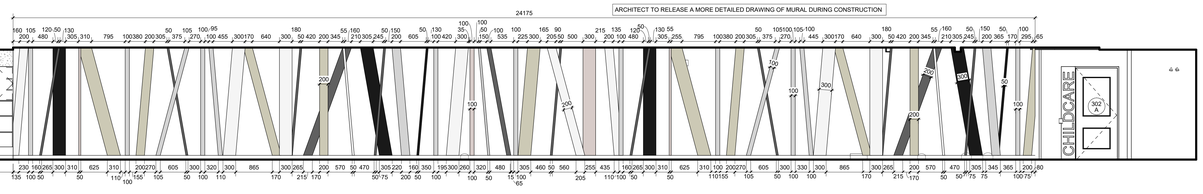
ARCHITECT TO RELEASE A MORE DETAILED DRAWING OF MURAL DURING CONSTRUCTION

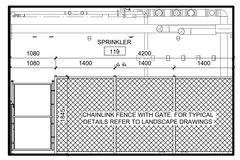


65 A17 *MURAL IN CORRIDOR 140 - B*
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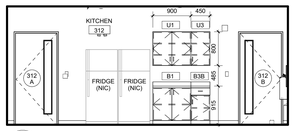
64 A17 *MURAL IN CORRIDOR 140 - A*
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ARCHITECT TO RELEASE A MORE DETAILED DRAWING OF MURAL DURING CONSTRUCTION

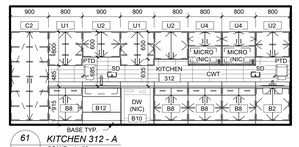




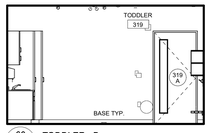
63 A17 *SPRINKLER ROOM 119*
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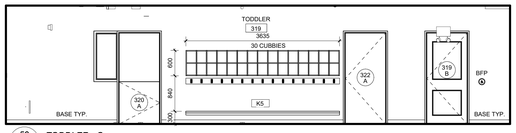
62 A17 *KITCHEN 312 - B*
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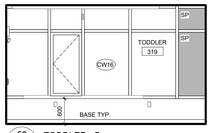
61 A17 *KITCHEN 312 - A*
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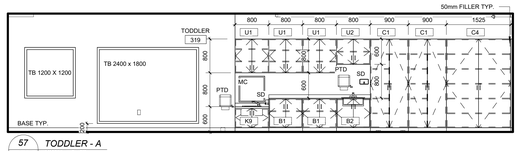
60 A17 *TODDLER - D*
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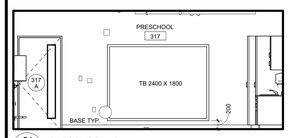
59 A17 *TODDLER - C*
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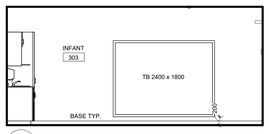
58 A17 *TODDLER - B*
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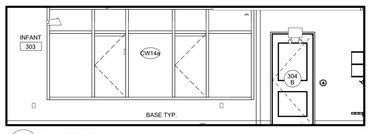
57 A17 *TODDLER - A*
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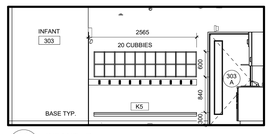
54 A17 *PRESCHOOL - D*
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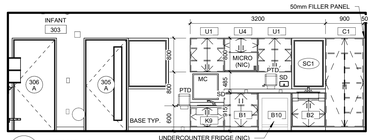
53 A17 *INFANT - D*
SCALE: 1 : 50



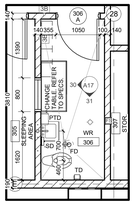
52 A17 *INFANT - C*
SCALE: 1 : 50



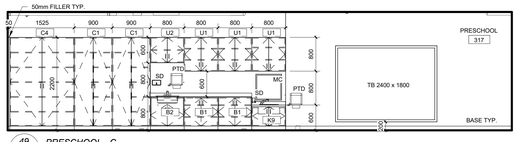
51 A17 *INFANT - B*
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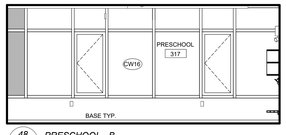
50 A17 *INFANT - A*
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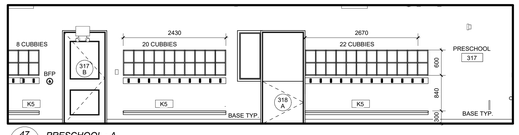
46 A17 *INFANT WR 306*
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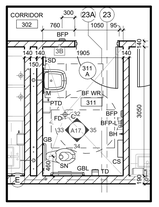
49 A17 *PRESCHOOL - C*
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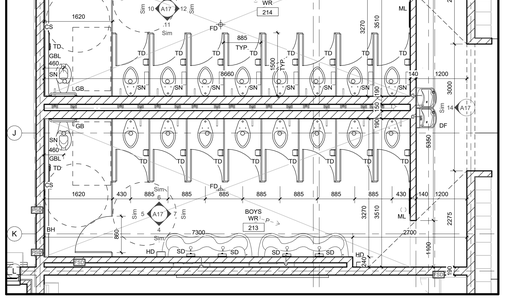
48 A17 *PRESCHOOL - B*
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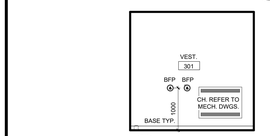
47 A17 *PRESCHOOL - A*
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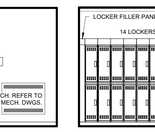
37 A17 *CHILDCARE BF WR 311*
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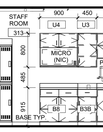
24 A17 *SECOND FLOOR - WASHROOMS*
SCALE: 1 : 50



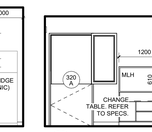
36 A17 *LAUNDRY 310 - A*
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35 A17 *CHILDCARE BF WR 311 - D*
SCALE: 1 : 50



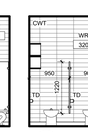
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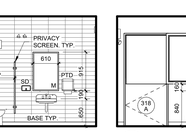
33 A17 *CHILDCARE BF WR 311 - B*
SCALE: 1 : 50



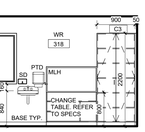
32 A17 *CHILDCARE BF WR 311 - A*
SCALE: 1 : 50



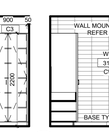
31 A17 *INFANT WR - B*
SCALE: 1 : 50



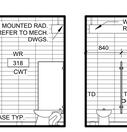
30 A17 *INFANT WR - A*
SCALE: 1 : 50



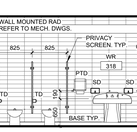
29 A17 *HEALTH WR - B*
SCALE: 1 : 50



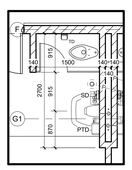
28 A17 *HEALTH WR - A*
SCALE: 1 : 50



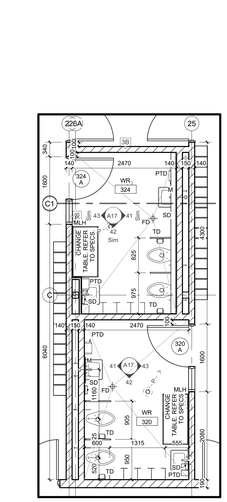
27 A17 *CHANGE ROOM WR - B*
SCALE: 1 : 50



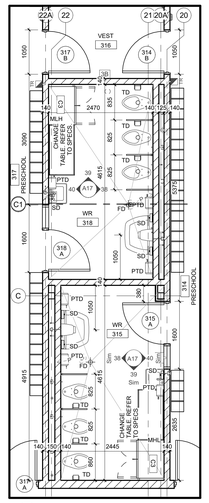
26 A17 *CHANGE ROOM WR - A*
SCALE: 1 : 50



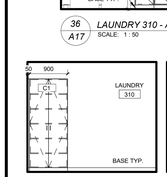
25 A17 *KINDER WASHROOM (TYP.)*
SCALE: 1 : 50



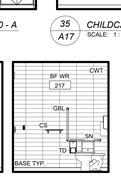
56 A17 *TODDLER'S WR*
SCALE: 1 : 50



55 A17 *PRE-SCHOOL WR*
SCALE: 1 : 50



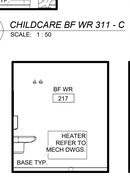
23 A17 *LAUNDRY 310 - B*
SCALE: 1 : 50



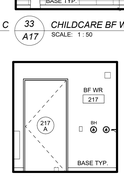
22 A17 *BF WR 217 - D*
SCALE: 1 : 50



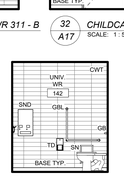
21 A17 *BF WR 217 - C*
SCALE: 1 : 50



20 A17 *BF WR 217 - B*
SCALE: 1 : 50



19 A17 *BF WR 217 - A*
SCALE: 1 : 50



18 A17 *UNIVERSAL WR 142 - D*
SCALE: 1 : 50

17 A17 *UNIVERSAL WR 142 - C*
SCALE: 1 : 50

16 A17 *UNIVERSAL WR 142 - B*
SCALE: 1 : 50

15 A17 *UNIVERSAL WR 142 - A*
SCALE: 1 : 50

14 A17 *DRINKING FOUNTAIN & CWT. ACCENT WALL*
SCALE: 1 : 50

*ALIGN ACCENT TILE OF ROW 6 WITH ROW 5 AT PATTERN BEGINNING

NOTE:
TYP. CERAMIC WALL TILE (CWT) PATTERN TO BE APPLIES ON ALL FOUR ELEVATION, STARTING AT THE WASHROOM ENTRANCE AND PROCEEDING CLOCKWISE AROUND THE ROOM. ENSURE THE PATTERN REMAINS CONTINUOUS ACROSS ALL WALLS. UTILIZING CUT PIECES AT CORNERS.

66 A17 *TYPICAL BOYS & GIRLS WR CWT. PATTERN*
SCALE: 1 : 50

13 A17 *WR - 143, 144 & 218 - B*
SCALE: 1 : 50

12 A17 *GIRLS WR - D*
SCALE: 1 : 50

11 A17 *GIRLS WR - C*
SCALE: 1 : 50

10 A17 *GIRLS WR - B*
SCALE: 1 : 50

9 A17 *GIRLS WR - A*
SCALE: 1 : 50

3 A17 *WASHROOMS AT CHANGE ROOMS*
SCALE: 1 : 50

2 A17 *HEALTH WASHROOM*
SCALE: 1 : 50

1 A17 *GROUND FLOOR - WASHROOMS*
SCALE: 1 : 50

45 A17 *VESTIBULE 301*
SCALE: 1 : 50

44 A17 *STAFF ROOM 313 - A*
SCALE: 1 : 50

43 A17 *TODDLER WR - C*
SCALE: 1 : 50

42 A17 *TODDLER WR - B*
SCALE: 1 : 50

41 A17 *TODDLER WR - A*
SCALE: 1 : 50

40 A17 *PRE-SCHOOL WR - C*
SCALE: 1 : 50

39 A17 *PRE-SCHOOL WR - B*
SCALE: 1 : 50

38 A17 *PRE-SCHOOL WR - A*
SCALE: 1 : 50

37 A17 *CHILDCARE BF WR 311*
SCALE: 1 : 50

24 A17 *SECOND FLOOR - WASHROOMS*
SCALE: 1 : 50

1 A17 *GROUND FLOOR - WASHROOMS*
SCALE: 1 : 50

PROJECT NORTH

TRUE NORTH

ABBREVIATION LEGEND

A	ACTIVE DOOR LEAF
ACP	ALUMINUM COMPOSITE PANEL
AD	ARCHITECTURAL DETAILS
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
BB	BULLETIN BOARD - REFER TO SPECS
BD	BOARD
BF	BOTTLE FILLER
B/F	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFP-L	BARRIER FREE PUSH BUTTON LOCK
BH	BREAK-AWAY HOOK
BV	BRICK VENT
CJ	CONTROL JOINT
CH	CABINET HEATER (RECESSED)
CHw	CABINET HEATER (SEMI-RECESSED)
CHT	CHANGE TABLE STATION REFER TO SPEC
CH-S	COAT RACK AND SHELF
CS	CONVENIENCE SHELF
CW	COMPLETE WITH
CWT	CERAMIC WALL TILE
DF	DRINKING FOUNTAIN
DW	DISHWASHER
EM	ELECTROMAGNETIC HOLD OPEN DEVICE
EP	ELECTRICAL PANEL. REF. ELEC. DWGS.
EPC	EMERGENCY PULL CORD
EW	EYE WASH STATION
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FB	FIRE BLANKET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FRGB	FIRE RATED GYPSUM BOARD
FSS	FOLDING SHOWER SEAT
GALV	GALVANIZED
GB	GYPSUM BOARD
GR	GRAB BAR
GBL	GRAB BAR "L" SHAPE
GBF	GRAB BAR "FOLDING"
GM	GAS METER
HD	HAND DRYER
HL	HANDICAP LOCKER
HM	HOLLOW METAL
HSS	HOLLOW STRUCTURAL STEEL
IPS	INTERIOR SIGNAGE PANEL
JS	JANITORIAL SHELF
LF	LIGHT FIXTURE
LKRS	LOCKERS
M	MIRROR
MC	MIRROR IN CHILD CARE ROOMS
ML	LONG MIRROR
MLH	LONG MIRROR - HORIZONTAL
MCP	MODULAR CONTROL PANEL
MRS	MOTORIZED ROLLER SHADE
MS	MOP SINK
N/C	NOT IN CONTRACT
PAS	PUBLIC ANNOUNCEMENT SYSTEM
PREFIN	PREFINISHED
PCT	PRIVACY CURTAIN AND TRACK
PMP-1	PERFORATED METAL PANEL
PTD	PAPER TOWEL DISPENSER
PTW	PAPER TOWEL + WASTE RECEPTACLE
RD	ROOF DRAIN
REINF	REINFORCING
RF	REFRIGERATOR
RHM	REMOVABLE HARDWARE MULLION
RS	ROLLER SHADE REFER TO SPECS
RWL	RAIN WATER LEADER
SC	HOLLOW METAL WINDOW SCREEN
SD	SOAP DISPENSER
SFS	STRUCTURAL FROST SLAB
SIM.	SIMILAR
SN	SANITARY NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
SR+C	SHOWER ROD + CURTAIN
STB	SLIDING TACKBOARD
SP	SPANDREL PANEL
TB	TACKBOARD
TD	TOILET PAPER DISPENSER
TM	TILT MIRROR
TWB	TOWEL BAR
VP	VERTICAL PRESTOP
WB	WHITEBOARD
WD	WASHER/DRYER NIC
WM	WIREMOLD
WR	WASHROOM

THIS DRAWINGS IS TO BE READ IN CONJUNCTION WITH AD1001 - MOUNTING HEIGHTS

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
02	ISSUED FOR BUILDING PERMIT	26/03/23
01	ISSUED FOR 85% COST ESTIMATE	26/03/09

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADOUCEUR
LICENCE
6653
CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

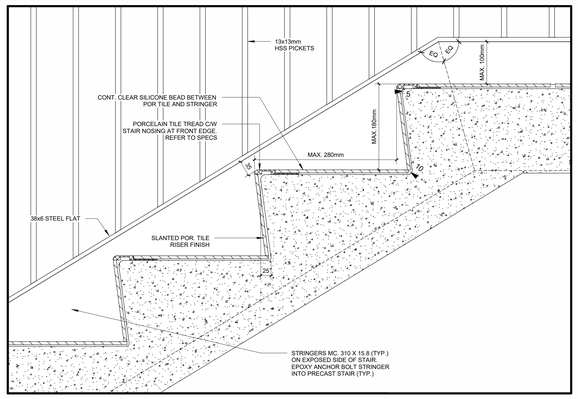
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OAKVILLE, ON

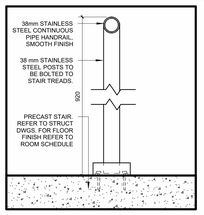
HALTON CATHOLIC DISTRICT SCHOOL BOARD

WASHROOM ENLARGEMENTS & INTERIOR ELEVATIONS

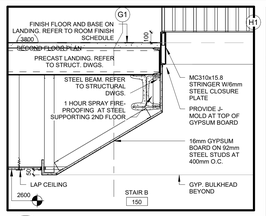
HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-8384 Fax: (905) 607-8280

SCALE	PROJECT
As indicated	24106
DATE	
NOV 2026	
DRAWN	DRAWING
RS	A17
CHECKED	
PL	
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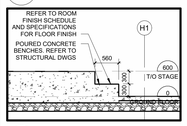




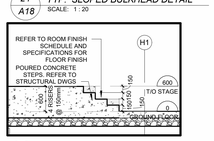
25 A18 *INTERMEDIATE HANDRAIL - SECTION* SCALE: 1 : 5



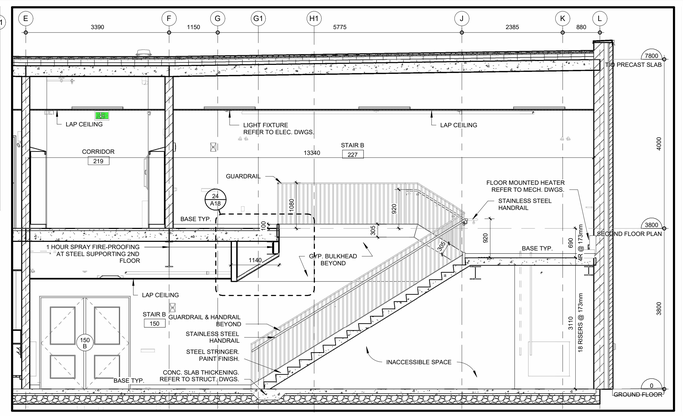
24 A18 *TYP. SLOPED BULKHEAD DETAIL* SCALE: 1 : 20



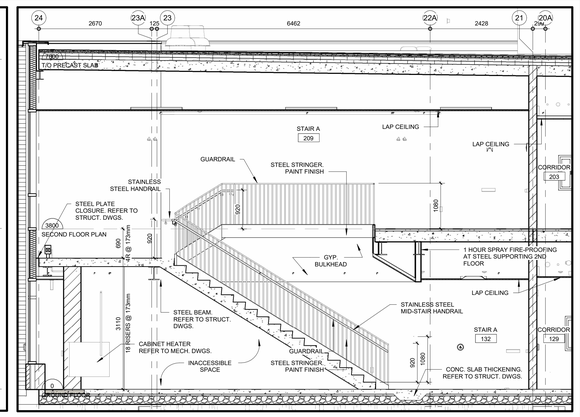
15 A18 *STAGE STAIR - SECTION 1* SCALE: 1 : 50



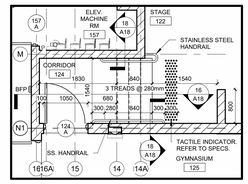
14 A18 *FORUM STAIR - SECTION 2* SCALE: 1 : 50



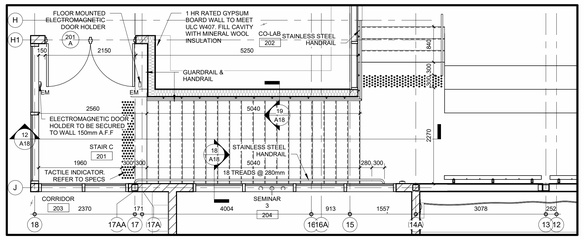
10 A18 *STAIR B - SECTION* SCALE: 1 : 50



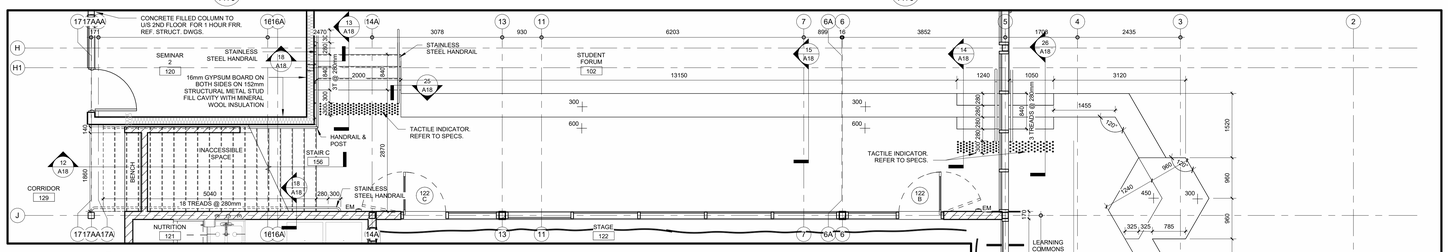
9 A18 *STAIR A - SECTION* SCALE: 1 : 50



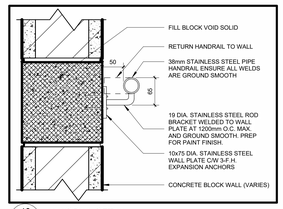
7 A18 *STAIR FROM STAGE TO CORRIDOR 124* SCALE: 1 : 50



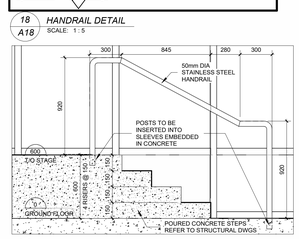
6 A18 *STAIR C - SECOND FLOOR PLAN* SCALE: 1 : 50



5 A18 *STAIR C - GROUND FLOOR PLAN* SCALE: 1 : 50

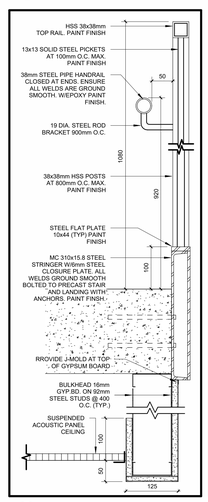


18 A18 *HANDRAIL DETAIL* SCALE: 1 : 5

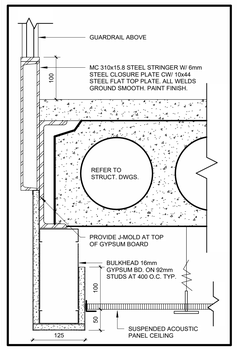


26 A18 *HANDRAIL DETAIL* SCALE: 1 : 20

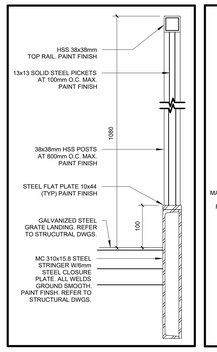
1 A18 *STAIR A - GROUND FLOOR PLAN* SCALE: 1 : 50



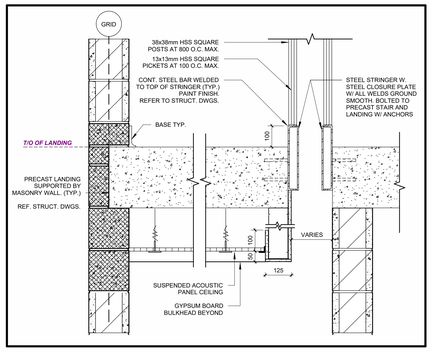
19 A18 *GUARDRAIL & HANDRAIL DETAIL* SCALE: 1 : 5



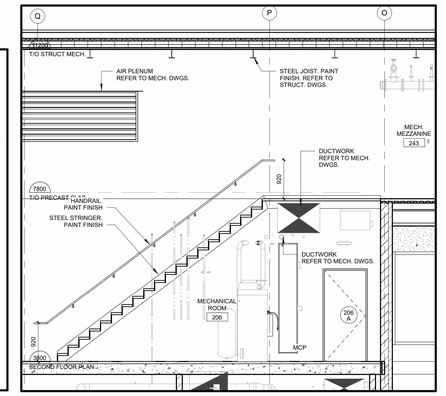
21 A18 *GUARDRAIL DETAIL AT CORESLAB* SCALE: 1 : 5



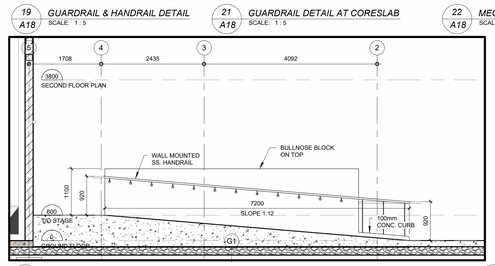
22 A18 *MECH. MEZZ GUARDRAIL DETAIL* SCALE: 1 : 5



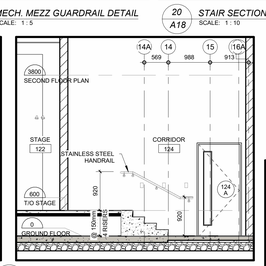
20 A18 *STAIR SECTION* SCALE: 1 : 50



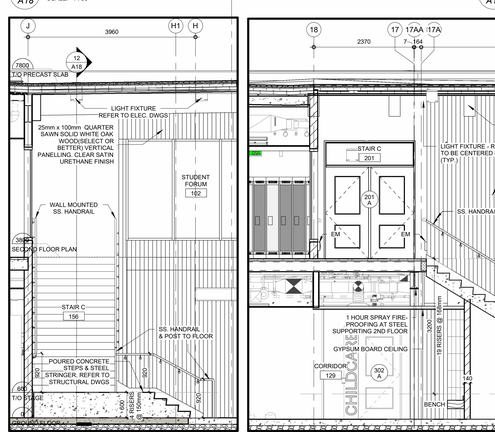
11 A18 *STAIR - ACCESS TO MECH. MEZZ. - SECTION* SCALE: 1 : 50



8 A18 *RAMP IN LEARNING COMMONS* SCALE: 1 : 50

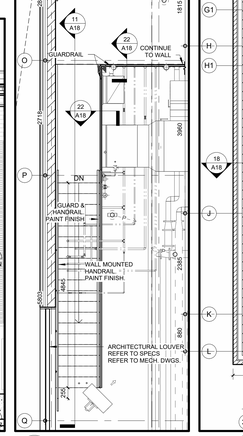


16 A18 *STAIR FROM STAGE TO CORRIDOR 124 - SECTION* SCALE: 1 : 50

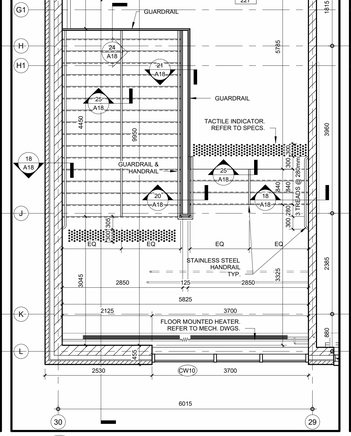


13 A18 *STAIR C - SECTION 1* SCALE: 1 : 50

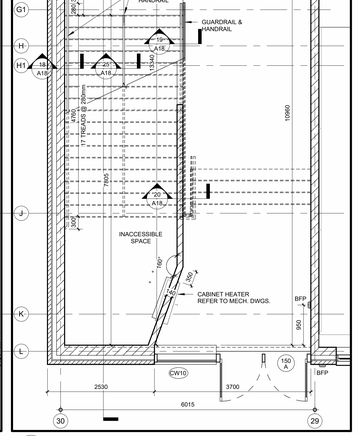
12 A18 *STAIR C - SECTION 2* SCALE: 1 : 50



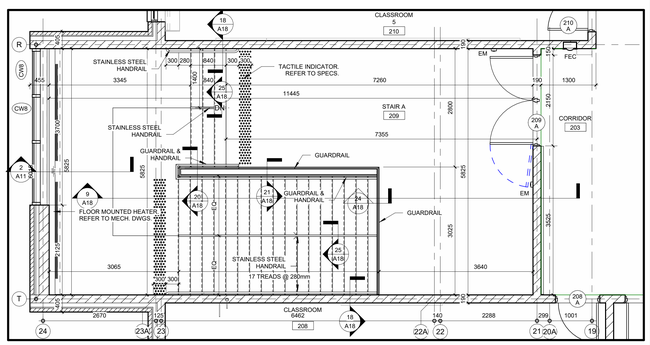
17 A18 *STAIR - ACCESS TO MECH. MEZZ.* SCALE: 1 : 50



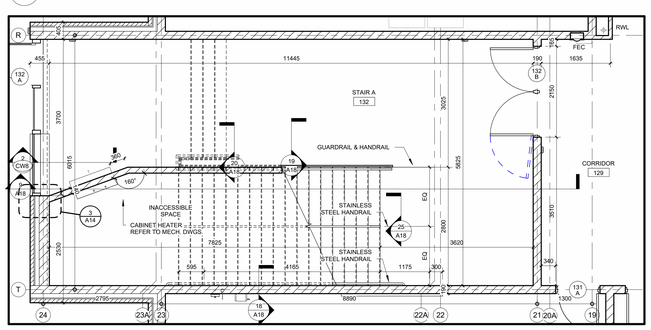
4 A18 *STAIR B - SECOND FLOOR PLAN* SCALE: 1 : 50



3 A18 *STAIR B - GROUND FLOOR PLAN* SCALE: 1 : 50



2 A18 *STAIR A - SECOND FLOOR PLAN* SCALE: 1 : 50



1 A18 *STAIR A - GROUND FLOOR PLAN* SCALE: 1 : 50

PROJECT NORTH
TRUE NORTH

NO.	DESCRIPTION	DATE
03	ISSUED FOR TENDER	26/11/04
02	ISSUED FOR BUILDING PERMIT	26/03/23
01	ISSUED FOR 85% COST ESTIMATE	26/03/09

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ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LAOUCOUR
LICENCE
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CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY
SCHOOL

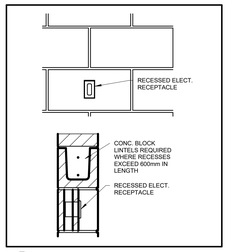
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OAKVILLE, ON

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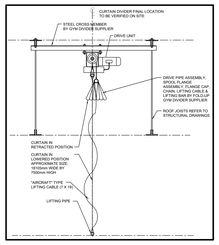
STAIR PLANS AND
DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-5284 Fax: (905) 607-6290

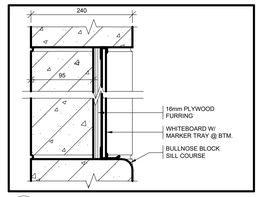
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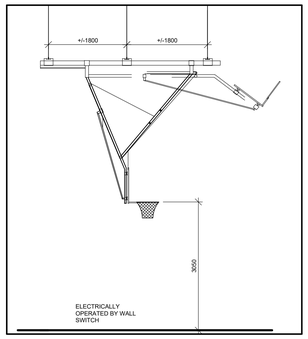
8 / A19 RECESS FOR ELECT. DEVICES IN GYMNASIUM
SCALE: 1 : 10



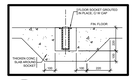
11 / A19 GYM DIVIDER CURTAIN
SCALE: 1 : 20



7 / A19 WHITEBOARD RECESS IN GYMNASIUM
SCALE: 1 : 5



6 / A19 JOIST SUSPENDED SWING-UP BACK STOP
SCALE: 1 : 50

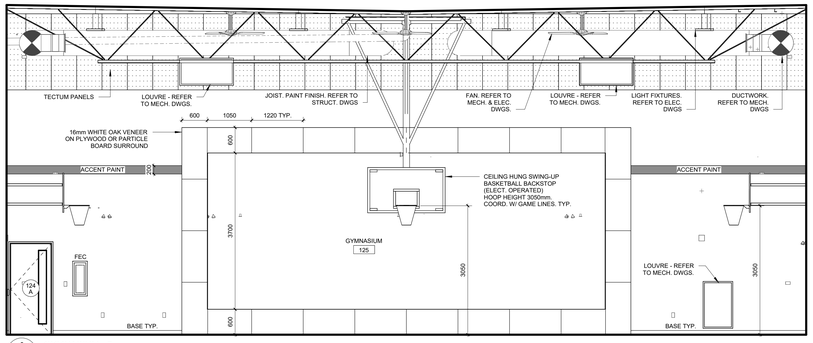


9 / A19 FLOOR SOCKET DETAIL
SCALE: 1 : 10

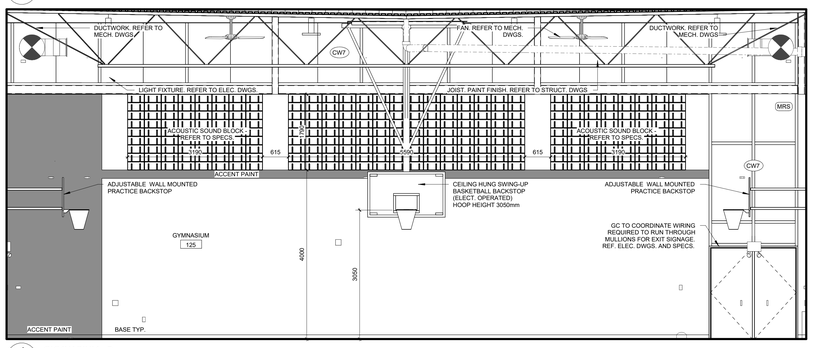
LEGEND		
LINE	COURT	COLOUR
	MAIN BASKETBALL (50mm,100mm border)	RED
	4 PRACT. BASKETBALL (50mm)	RED
	MAIN VOLLEYBALL (50mm)	GREEN
	2 PRACT. VOLLEYBALL (50mm)	GREEN
	4 BADMINTON (25mm)	BLACK
◇FS	FLOOR SOCKET	

NOTES:
1. CONFIRM LOCATION OF FLOOR SOCKETS WITH CONSULTANTS PRIOR TO SLAB THICKENING AND INSTALLATION

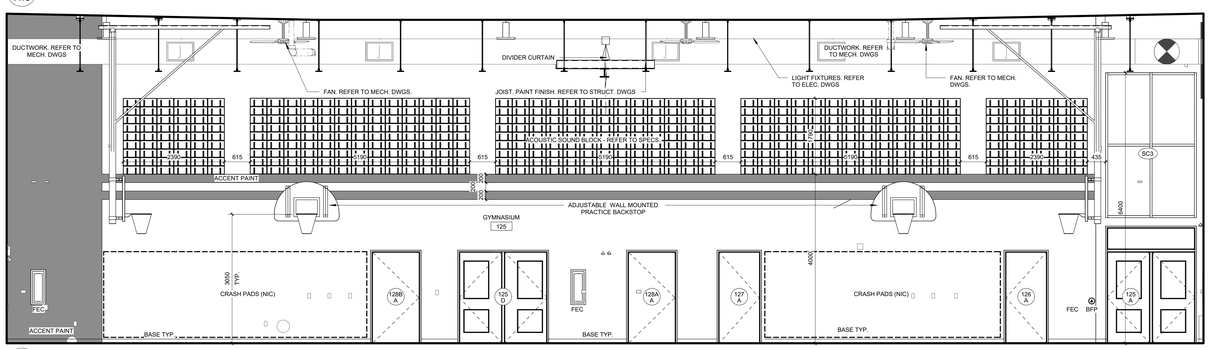
10 / A19 GYM GAMES LINE LEGEND AND NOTES
SCALE: 1 : 100



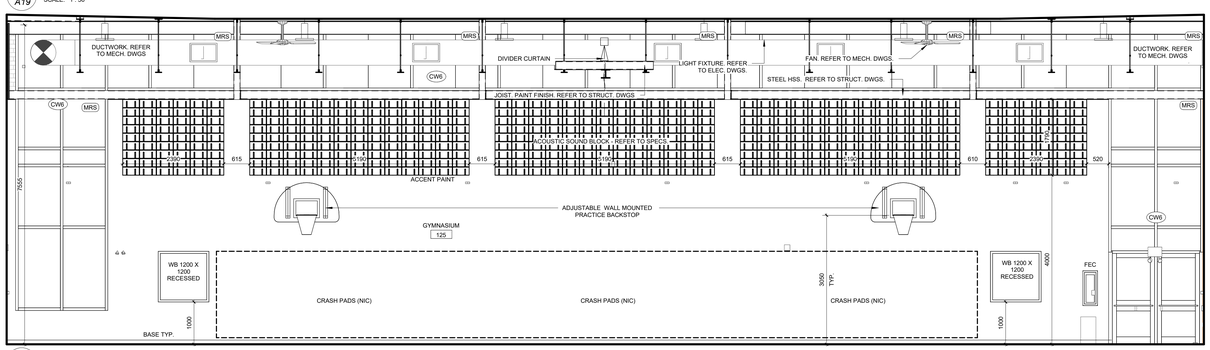
2 / A19 GYMNASIUM - B
SCALE: 1 : 50



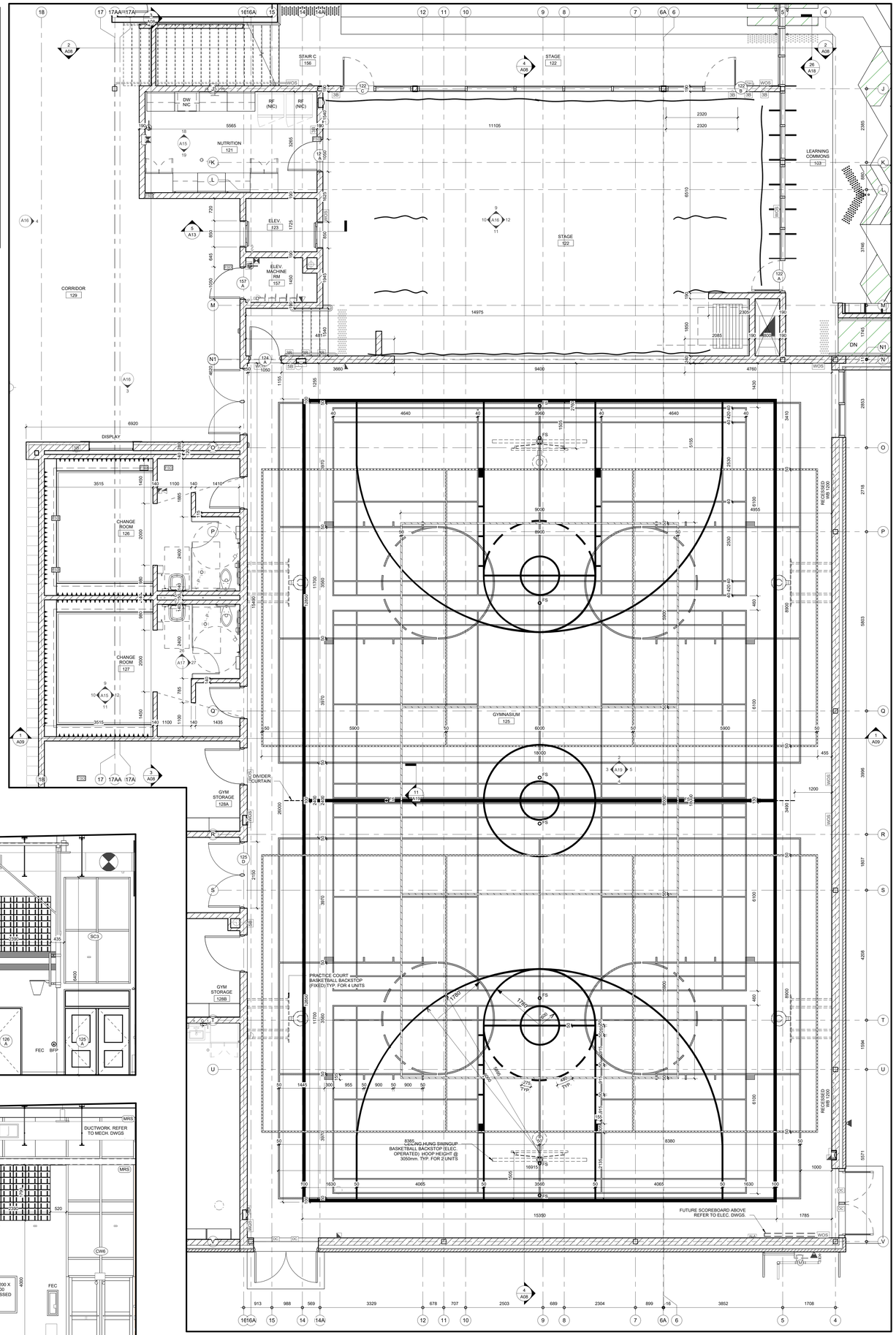
4 / A19 GYMNASIUM - D
SCALE: 1 : 50



3 / A19 GYMNASIUM - C
SCALE: 1 : 50



5 / A19 GYMNASIUM - A
SCALE: 1 : 50



1 / A19 GYMNASIUM
SCALE: 1 : 50

PROJECT NORTH
TRUE NORTH

ABBREVIATION LEGEND

A	ACTIVE DOOR LEAF
ACP	ALUMINUM COMPOSITE PANEL
AD	ARCHITECTURAL DETAILS
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
BB	BULLETIN BOARD - REFER TO SPECS
BID	BOARD
BF	BOTTLE FILLER
BF	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFP-L	BARRIER FREE PUSH BUTTON LOCK
BH	BREAK-AWAY HOOK
BV	BRICK VENT
CJ	CONTROL JOINT
CH	CABINET HEATER (RECESSED)
CHw	CABINET HEATER (SEMI-RECESSED)
CHT	CHANGE TABLE STATION REFER TO SPEC
CR+S	COAT RACK AND SHELF
CS	CONVENIENCE SHELF
CW	COMPLETE WITH
CWT	CERAMIC WALL TILE
DF	DRINKING FOUNTAIN
DW	DISHWASHER
EM	ELECTROMAGNETIC HOLD OPEN DEVICE
EP	ELECTRICAL PANEL, REF. ELEC. DWGS.
EPC	EMERGENCY PULL CORD
EW	EYE WASH STATION
FAAP	FIRE ALARM ANNUCIATOR PANEL
FB	FIRE BLANKET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FG	FIXED GLASS
FRGB	FIRE RATED GYPSUM BOARD
FSS	FOLDING SHOWER SEAT
GALV	GALVANIZED
GYP	GYPSUM BOARD
GB	GRAB BAR
GBL	GRAB BAR "L" SHAPE
GBF	GRAB BAR "FOLDING"
GM	GAS METER
HD	HAND DRYER
HL	HANDICAP LOCKER
HM	HOLLOW METAL
HSS	HOLLOW STRUCTURAL STEEL
IPS	INTERIOR SIGNAGE PANEL
JS	JANITORIAL SHELF
LF	LIGHT FIXTURE
LKRS	LOCKERS
M	MIRROR
MC	MIRROR IN CHILD CARE ROOMS
ML	LONG MIRROR
MLH	LONG MIRROR - HORIZONTAL
MCP	MODULAR CONTROL PANEL
MRS	MOTORIZED ROLLER SHADE
MS	MOP SINK
NIC	NOT IN CONTRACT
PAS	PUBLIC ANNOUNCEMENT SYSTEM
PREFIN	PREFINISHED
PCT	PRIVACY CURTAIN AND TRACK
PMP-1	PERFORATED METAL PANEL
PTD	PAPER TOWEL DISPENSER
PTW	PAPER TOWEL + WASTE RECEPTACLE
RD	ROOF DRAIN
REINF	REINFORCING
RF	REFRIGERATOR
RHM	REMOVABLE HARDWARE MULLION
RS	ROLLER SHADE REFER TO SPECS
RWL	RAIN WATER LEADER
SC	HOLLOW METAL WINDOW SCREEN
SD	SOAP DISPENSER
SFS	STRUCTURAL FROST SLAB
SIM.	SIMILAR
SN	SANITARY NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
SR+C	SHOWER ROD + CURTAIN
STB	SLIDDING TACKBOARD
SP	SPANDREL PANEL
TB	TACKBOARD
TD	TOILET PAPER DISPENSER
TM	TILT MIRROR
TWB	TOWEL BAR
VFS	VERTICAL FIRESTOP
WB	WHITEBOARD
WD	WASHER/ DRYER NIC
WM	WIREMOLD
WR	WASHROOM

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ONTARIO ASSOCIATION OF ARCHITECTS
NOV. 5/26
PRISCILLA LADUCEUR
LICENCE 6053
CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
3500 POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

GYMNASIUM PLAN, ELEVATIONS & DETAILS

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SCALE	As indicated
PROJECT	24106
DATE	NOV 2026
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DRAWING	A19
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PROJECT NORTH

TRUE NORTH

SP SPANDREL PANEL

SSG STRUCTURAL SILICONE GLAZING MULLION

WINDOW SPRINKLERS TYP. TO BE CENTERED BETWEEN MULLIONS

GENERAL NOTES:

REFER TO FIRE SEPARATION PLANS AND MECHANICAL DRAWINGS FOR GLAZING REQUIRING WINDOW SPRINKLER FIRE PROTECTION.

REFER TO FIRE SEPARATION PLANS FOR FIRE RATED WALLS WITH GLAZING REQUIRING FIRE RATED GLASS. REFER TO SPEC.

GC TO COORDINATE WIRING WITH ELECTRICAL DWGS FOR PROPER INSTALLATION OF EXIT SIGN ON CURTAIN WALLS ON ALL DOORS.

ALL CASEMENT WINDOWS TO OPEN OUT. REFER TO SPECIFICATIONS.

CW8 — PROVIDE STEEL CHANNEL REINFORCING WITHIN MULLIONS AROUND PERIMETER OPENING OF DOUBLE DOORS. DOOR HINGES TO EXTEND THROUGH TO STEEL SUPPORTS.

CW10 — PROVIDE STEEL CHANNEL REINFORCING WITHIN MULLIONS AROUND PERIMETER OPENING OF DOUBLE DOORS. DOOR HINGES TO EXTEND THROUGH TO STEEL SUPPORTS.

CW11 — GC TO COORDINATE WIRING REQUIRED TO RUN THROUGH MULLIONS FOR EXIT SIGNAGE. REF. ELEC. DWGS. AND SPECS.

CW5 — PROVIDE STEEL CHANNEL REINFORCING WITHIN MULLIONS AROUND PERIMETER OPENING OF DOUBLE DOORS. DOOR HINGES TO EXTEND THROUGH TO STEEL SUPPORTS.

CW4 — REFER TO WALL SECTIONS FOR EXTENT OF VERTICAL MULLION EXTENTION TO MEET STEEL STRUCTURE ABOVE

CW3 — REFER TO WALL SECTIONS FOR EXTENT OF VERTICAL MULLION EXTENTION TO MEET STEEL STRUCTURE ABOVE

CW2 — REFER TO WALL SECTIONS FOR EXTENT OF VERTICAL MULLION EXTENTION TO MEET STEEL STRUCTURE ABOVE

CW1 — REMOVABLE MULLION BEHIND

PROVIDE STEEL CHANNEL REINFORCING WITHIN MULLIONS AROUND PERIMETER OPENING OF DOUBLE DOORS. DOOR HINGES TO EXTEND THROUGH TO STEEL SUPPORTS.

CW7 — REFER TO WALL SECTIONS FOR EXTENT OF VERTICAL MULLION EXTENTION TO MEET STEEL STRUCTURE ABOVE

CW6 — DOUBLE MULLION REFER TO DETAIL 9/A11

GC TO COORDINATE WIRING REQUIRED TO RUN THROUGH MULLIONS FOR EXIT SIGNAGE. REF. ELEC. DWGS. AND SPECS.

PROVIDE STEEL CHANNEL REINFORCING WITHIN MULLIONS AROUND PERIMETER OPENING OF DOUBLE DOORS. DOOR HINGES TO EXTEND THROUGH TO STEEL SUPPORTS.

ALUMINUM WINDOWS

W1

W2

CW9 — GC TO COORDINATE WIRING REQUIRED TO RUN THROUGH MULLIONS FOR EXIT SIGNAGE. REF. ELEC. DWGS. AND SPECS.

CW13 CW12

CW14 — PROVIDE STEEL CHANNEL REINFORCING WITHIN MULLIONS AROUND PERIMETER OPENING OF DOUBLE DOORS. DOOR HINGES TO EXTEND THROUGH TO STEEL SUPPORTS.

CW15 — PROVIDE STEEL CHANNEL REINFORCING WITHIN MULLIONS AROUND PERIMETER OPENING OF DOUBLE DOORS. DOOR HINGES TO EXTEND THROUGH TO STEEL SUPPORTS.

CW16 — PROVIDE STEEL CHANNEL REINFORCING WITHIN MULLIONS AROUND PERIMETER OPENING OF DOUBLE DOORS. DOOR HINGES TO EXTEND THROUGH TO STEEL SUPPORTS.

CW17 — GC TO COORDINATE WIRING REQUIRED TO RUN THROUGH MULLIONS FOR EXIT SIGNAGE. REF. ELEC. DWGS. AND SPECS.

CW18

CW20

CW19

CW22

CW21

CW26 — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW26 — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW27 — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW28 — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW29 — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW30 — SECOND FLOOR PLAN WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW25 — GC TO COORDINATE WIRING REQUIRED TO RUN THROUGH MULLIONS FOR BARRIER-FREE PUSH BUTTON. REF. ELEC. DWGS. AND SPECS.

GC TO COORDINATE WIRING REQUIRED TO RUN THROUGH MULLIONS FOR EXIT SIGNAGE. REF. ELEC. DWGS. AND SPECS.

CW23a — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW23b — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW24a — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW24b — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

CW24c — WINDOW SPRINKLERS. REF. MECH. DWGS AND WALL SECTIONS

GC TO COORDINATE WIRING REQUIRED TO RUN THROUGH MULLIONS FOR EXIT SIGNAGE. REF. ELEC. DWGS. AND SPECS.

CW31 — WINDOW SPRINKLERS TYP. REF. MECH. DWGS AND WALL SECTIONS

CW32 — WINDOW SPRINKLERS TYP. REF. MECH. DWGS AND WALL

RATED HOLLOW METAL SCREEN. REFER TO A01

PREFABRICATED METAL FILLER PLATES, PAINTED TO MATCH HOLLOW METAL FRAMES OF DOOR AND SCREEN

REFER TO DOOR SCHEDULE AND AD'S FOR HM DOOR FRAME

RATED HOLLOW METAL SCREEN. REFER TO A01

SC1

SC2

SC4

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ONTARIO ASSOCIATION OF ARCHITECTS
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LICENCE
6053
CERTIFICATE OF PRACTICE #4292

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

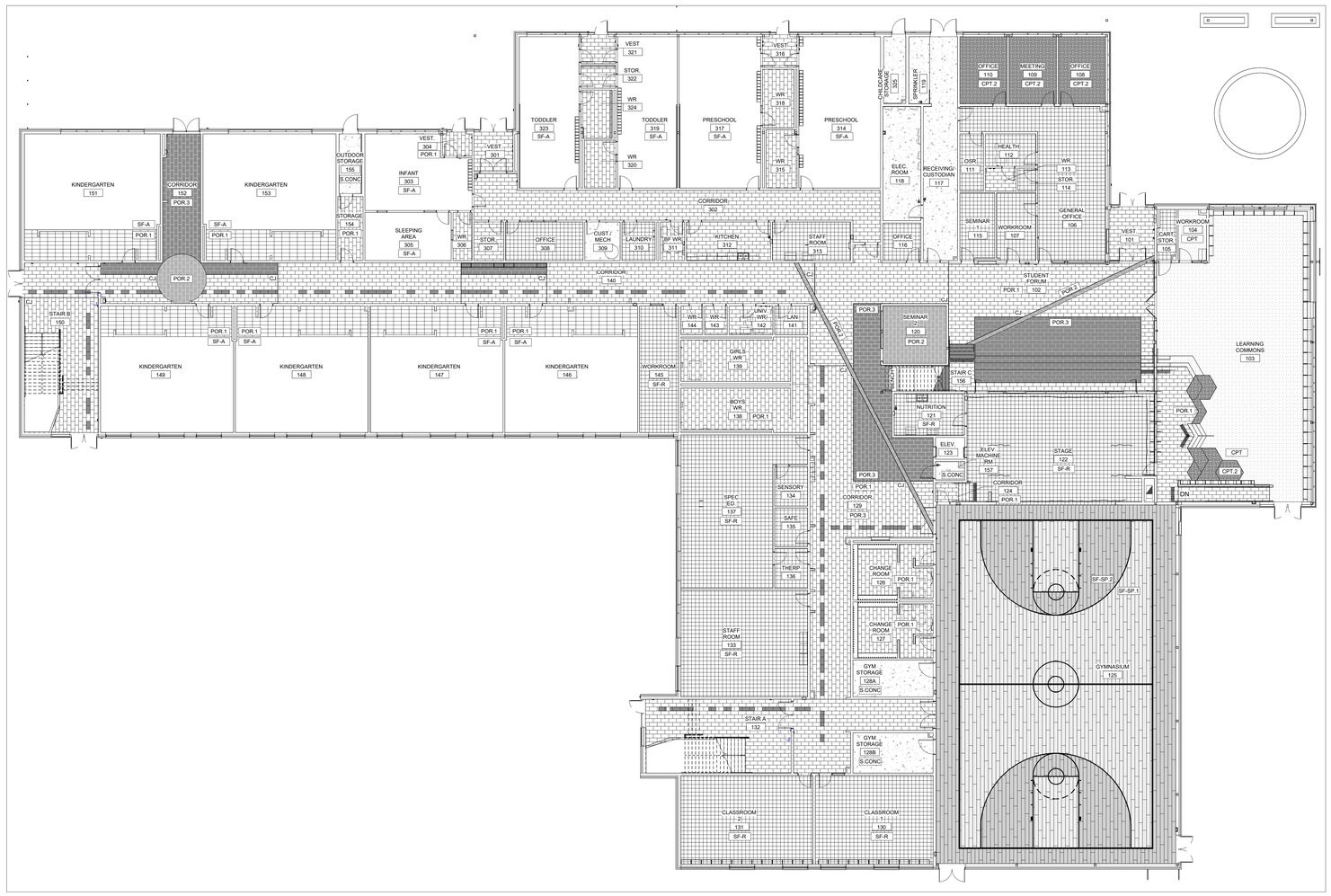
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OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

CURTAIN WALL, WINDOW & SCREEN SCHEDULE

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 1M8
Tel (905) 607-6364 Fax (905) 607-6296

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2 / A21 *SECOND FLOOR - FLOOR PATTERN LAYOUT*
SCALE: 1 : 150

1 / A21 *GROUND FLOOR - FLOOR PATTERN LAYOUT*
SCALE: 1 : 150

PROJECT NORTH
TRUE NORTH

LEGEND
REFER TO SPECIFICATIONS

SHEET FLOORING
SF-A | SF-SP.1 | SF-SP.2 | SF-R

PORCELAIN TILE
POR1 | POR2 | POR3

CARPET
CPT | CPT 2 | CPT 3

CONCRETE
SEAL CONCRETE - REFER TO SPECS

CJ - CONTROL JOINT

FLOOR PATTERN HATCHES ARE TO BE READ IN CONJUNCTION WITH ROOM FINISH SCHEDULE TO DIFFERENTIATE BETWEEN TYPE OF FLOOR REQUIRED.

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ONTARIO ASSOCIATION OF ARCHITECTS
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CERTIFICATE OF PRACTICE #4292

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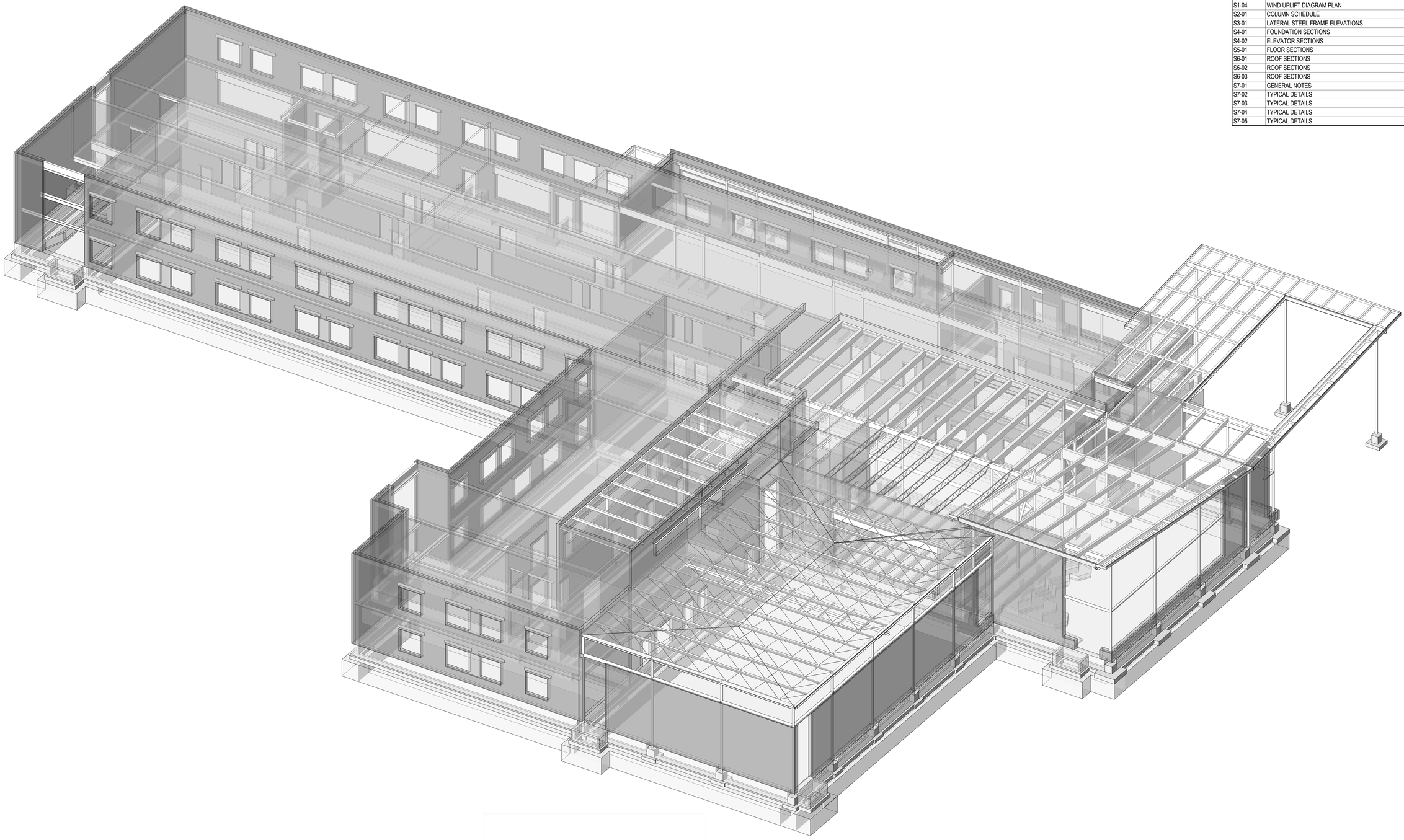
HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

FLOOR PATTERNS AND DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2750 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8284 Fax (905) 607-8285

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DRAWING LIST	
Sheet Number	Sheet Name
S0	COVER SHEET
S1-00	DESIGN CRITERIA NOTES, MISC SCHEDULES AND DETAILS
S1-01	FOUNDATION PLAN
S1-02	SECOND FLOOR FRAMING PLAN
S1-03	ROOF FRAMING PLAN
S1-04	WIND UPLIFT DIAGRAM PLAN
S2-01	COLUMN SCHEDULE
S3-01	LATERAL STEEL FRAME ELEVATIONS
S4-01	FOUNDATION SECTIONS
S4-02	ELEVATOR SECTIONS
S5-01	FLOOR SECTIONS
S6-01	ROOF SECTIONS
S6-02	ROOF SECTIONS
S6-03	ROOF SECTIONS
S7-01	GENERAL NOTES
S7-02	TYPICAL DETAILS
S7-03	TYPICAL DETAILS
S7-04	TYPICAL DETAILS
S7-05	TYPICAL DETAILS



HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

North Oakville #3 CATHOLIC ELEMENTARY SCHOOL

THIS COVER SHEET IS A DIAGRAMATIC 3D VIEW AND DOES NOT FORM PART OF THE DOCUMENTS

Salas O'Brien
2235 Sheppard Ave. E. Suite No. 1100
Toronto, ON M2J 5B5

DESIGN CRITERIA NOTES:

1. GENERAL

1.1. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2024 ONTARIO BUILDING CODE (OBC), ALL CODES, MANUALS, STANDARDS, AND SPECIFICATIONS REFERRED TO SHALL BE THE LATEST EDITIONS INCLUDING ALL REVISIONS AND ADDENDA AS REFERENCED IN THE OBC

1.2. BUILDING IMPORTANCE CATEGORY (TABLE 4.1.2.1 OF OBC) IS: HIGH

1.3. MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL:

1.3.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION; STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.

1.3.2. DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC CLAUSE 4.1.5.14.

1.3.3. DESIGN ALL HANDRAILS TO MEET LOADS DESCRIBED IN OBC CLAUSE 4.1.5.14(7).

1.3.4. DESIGN ALL STAIRS TO SUPPORT A MINIMUM LIVE LOAD OF 4.8kPa

1.4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO IS SUPPLYING AND INSTALLING NON-STRUCTURAL COMPONENTS AND EQUIPMENT, THAT ALL NON-STRUCTURAL ELEMENTS AND EQUIPMENT (AND THEIR CONNECTIONS TO THE STRUCTURE) LISTED IN TABLE 4.1.8.18 OF THE OBC ARE DESIGNED IN ACCORDANCE WITH CLAUSE 4.1.8.18.

2. FIRE SAFETY

2.1 REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE SAFETY RATING REQUIREMENTS FOR STRUCTURAL COMPONENTS.

2.1.1. HOLLOW CORE SLABS SHALL BE DESIGNED TO MEET THE FIRE RATING AS NOTED ON THE ARCHITECTURAL DRAWINGS.

3. LATERAL LOADS ON STRUCTURE

3.1 WIND LOADING

3.1.1 WIND PARAMETERS
THE WIND LOADING PARAMETERS INDICATED BELOW HAVE BEEN CALCULATED IN ACCORDANCE TO CLAUSE 4.1.7 OF NBC 2020 AND COMMENTARY I - 'WIND LOAD AND EFFECTS' OF USER'S GUIDE -NBC 2020 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B).
Ce and Cg HAVE BEEN COMPUTED ACCORDING TO THE [STATIC PROCEDURE FOR [OPEN TERRAIN].
IMPORTANCE FACTOR FOR WIND LOADING, Iw = 1.15
q(1/50) = 0.47 kPa
Cp VALUES PER CLAUSE 4.1.7.5 OR 4.1.7.6 OF NBC 2020 AND NBC 2020 USER'S GUIDE
CPi, VALUES PER CLAUSE 4.1.7.7 IN NBC 2020 AND NBC 2020 USER'S GUIDE.

3.1.2 BASE SHEARS
WIND BASE SHEAR = 684 kN (EAST-WEST DIRECTION)
WIND BASE SHEAR = 477 kN (NORTH-SOUTH DIRECTION)

3.1.3 IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR'S ENGINEER TO CALCULATE WIND PRESSURES ON NON-STRUCTURAL COMPONENTS (CLADDING, ROOFING, ETC.) BASED ON COMMENTARY I OF NBC 2020 USER'S GUIDE.

3.2 EARTHQUAKE LOADING

3.2.1 EARTHQUAKE PARAMETERS
IMPORTANCE FACTOR FOR EARTHQUAKE LOAD Iv = 1.3
SITE DESIGNATION FOR SITE RESPONSE = X760 (REFER TO GEOTECHNICAL REPORT)
THE EARTHQUAKE SEISMIC CATEGORY AS PER OBC TABLE 4.1.8.5.-B = SC3 (Sa(0.2) = 0.365)
Sa(0.2) = 0.281 Sa(0.5) = 0.0064
Sa(0.5) = 0.127 Sa(10.0) = 0.00248
Sa(1.0) = 0.061 PGA = 0.144
Sa(2.0) = 0.00271
SFRS CONSISTS OF: CONVENTINAL MASONRY SHEAR WALLS AND CORRESPONDING DUCTILITY-RELATED MODIFICATION FACTORS ARE:
Rd = 1.5 Ro = 1.5
METHOD OF LATERAL ANALYSIS: STATIC

3.2.2 BASE SHEARS
EARTHQUAKE BASE SHEAR = 2941 kN (EAST-WEST DIRECTION)
EARTHQUAKE BASE SHEAR = 2941 kN (NORTH-SOUTH DIRECTION)

3.2.3 STIFF ELEMENTS NOT PART OF SFRS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.3 (6a). EXAMPLES INCLUDE, BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A LICENSED PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE. PROVIDE MINIMUM 25mm SEPARATION UNLESS NOTED OTHERWISE.

3.3 LATERAL FORCES ON FOUNDATION / RETAINING WALLS

3.3.1 WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND HORIZONTAL EARTH PRESSURE (P IN kPa) AT A DEPTH (h IN m) GIVEN BY THE EQUATION BELOW.
P = K x (Wt.h+q)
Where K = 0.33 ACTIVE
Wt = 21 kN/m^3
q = 13 kPa (SURFACE PRESSURE SURCHARGE)
h = DEPTH (m)

3.3.2 THE WALLS HAVE BEEN DESIGNED ASSUMING FREE DRAINING BACKFILL OR THE USE OF A DRAINAGE CORE TO PREVENT THE BUILD-UP OF HYDROSTATIC PRESSURE. (SEE TYPICAL DETAILS)

4. SUPERIMPOSED DEAD AND LIVE LOADS

4.1 SEE FLOOR/ROOF PLANS, NOTES, AND/OR LOADING SCHEDULES FOR DESIGN SUPERIMPOSED DEAD AND LIVE LOADING ASSUMPTIONS.

4.2 THE STRUCTURE HAS BEEN DESIGNED TO RESIST THE FOLLOWING VERTICAL CLADDING DEAD LOADS:

CURTAIN WALL	0.38 kPa.
ARCHITECTURAL BLOCK	1.86 kPa.
BRICK VENEER	1.32 kPa.
METAL CLADDING	0.16 kPa.

5. OTHER LOADS ON ROOFS

5.1 SNOW LOADING

5.1.1 THE SPECIFIED SNOW LOADING HAS BEEN CALCULATED BASED ON THE FOLLOWING PARAMETERS, MODIFIED TAKING INTO ACCOUNT FACTORS SUCH AS ROOF SIZE, WIND EXPOSURE, SLOPE AND SNOW DRIFTS:
IMPORTANCE FACTOR FOR SNOW LOAD Is = 1.15
GROUND SNOW LOAD, Ss = 1.1 kPa
ASSOCIATED RAIN LOAD, Sr = 0.4 kPa

5.1.2 SEE ROOF PLANS AND ACCUMULATED SNOW LOADING PLANS FOR LOCALIZED INCREASES AND DRIFTS CALCULATED IN ACCORDANCE WITH PART 4.1.6 OF NBC 2020 AND NBC 2020 STRUCTURAL COMMENTARIES.

5.2 RAIN LOADING

5.2.2 THE BUILDING ROOF STRUCTURE HAS BEEN DESIGNED ON THE ASSUMPTION THAT FLOW CONTROL ROOF DRAINS SATISFY ALL REQUIREMENTS OF THE 2020 NATIONAL PLUMBING CODE OF CANADA.

5.2.2 THE TOTAL RAIN LOAD ASSOCIATED WITH THE ONE DAY (24 HR) RAINFALL, IN ACCORDANCE WITH CLAUSE 4.1.6.4.(1) OF NBC 2020 AND COMMENTARY H IN USER'S GUIDE - NBC 2020 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B IS: ONE DAY RAIN (1/50) = 87 mm

5.3 WIND UPLIFT

5.3.1 SEE ROOF PLANS, NOTES OR ROOF UPLIFT LOADING SCHEDULE FOR DESIGN LOAD VALUES FOR WIND UPLIFT. THE VALUES PRESENTED ON THESE DRAWINGS ARE UNFACTORED LOADS.

5.3.2 UPLIFT PRESSURES HAVE BEEN CALCULATED IN ACCORDANCE WITH CLAUSE 4.1.7.5 OR 4.1.7.6 OF NBC 2020.

5.3.3 FOR WIND PARAMETERS REFER TO SECTION 3.1 - WIND LOADING.

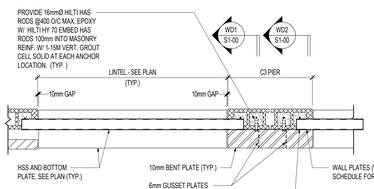
6. SERVICEABILITY

6.1 TYPICAL HORIZONTAL ELEMENTS (NOT SUPPORTING CLADDING) HAVE BEEN DESIGNED SO THAT THE CALCULATED DEFLECTIONS DO NOT EXCEED THE FOLLOWING LIMITS:

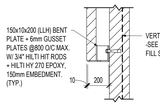
MEMBER TYPE	DEFLECTION COMPONENT	DEFLECTION LIMIT
STRUCTURAL STEEL MEMBERS		
FLOOR MEMBERS	LIVE	L/360
FLOOR MEMBERS	TOTAL + DEAD + LIVE (MINUS CAMBER)	L/300
ROOF MEMBERS SUPPORTING CONSTRUCTION AND FINISHES SUSCEPTIBLE TO CRACKING	LIVE OR SNOW LOAD	L/360
ROOF MEMBERS SUPPORTING CONSTRUCTION AND FINISHES NOT SUSCEPTIBLE TO CRACKING	LIVE OR SNOW LOAD	L/300
ROOF MEMBERS	TOTAL + DEAD + LIVE (MINUS CAMBER)	L/240
WOOD MEMBERS		
FLOOR AND ROOF MEMBERS	TOTAL LOAD	L/240
FLOOR MEMBERS	LIVE LOAD	L/360
ROOF MEMBERS	LIVE OR SNOW LOAD	L/360

6.2 THE BUILDING STRUCTURE HAS BEEN DESIGNED SUCH THAT THE TOTAL DRIFT PER STOREY UNDER SERVICE WIND AND GRAVITY LOADS DOES NOT EXCEED 1/500 OF THE STOREY HEIGHT.

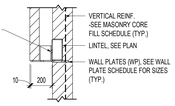
6.3 THE BUILDING STRUCTURE HAS BEEN DESIGNED SUCH THAT THE CALCULATED INTERSTOREY DEFLECTIONS DUE TO SEISMIC LOADS PER OBC 4.1.8.13 DO NOT EXCEED 0.02 OF THE STOREY HEIGHT.



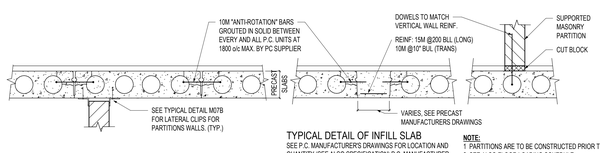
DP1 / S1-00 — PLAN DETAIL — 1 : 20



WD1 / S1-00 — DETAIL — 1 : 20



WD2 / S1-00 — DETAIL — 1 : 20



TYPICAL DETAIL OF INFILL SLAB
SEE P.C. MANUFACTURER'S DRAWINGS FOR LOCATION AND QUANTITY (SEE ALSO SPECIFICATION) P.C. MANUFACTURER TO SUPPLY REINFORCING BARS AND CONCRETE

DAB1 / S1-00 — NTS

NOTE:
1. PARTITIONS ARE TO BE CONSTRUCTED PRIOR TO INSTALLATION OF TOPPING.
2. SEE ALSO FLOOR LOADING SCHEDULE.
3. IF BLOCK PARTITIONS ARE INSTALLED AFTER TOPPING IS POURED, GENERAL CONTRACTOR TO NOTE AND COORDINATE THE AFFECT OF POST PARTITION ERECTION ON THE CAMBER OF THE CORESLABS. IN ADDITION, DOWELS MUST BE PROVIDED FROM CORESLAB INTO WALL ABOVE MIN. 10M@1200 U.N.O. IN NOTES SCHEDULES, TYPICAL DETAILS ETC.

MASONRY CORE FILL SCHEDULE — M20

MASONRY CORE FILL SCHEDULE

TYPE	SIZE	REINF	REMARKS
C1	t x 400	2-15 VERT. CONT.	
C2	t x 600	3-15 VERT. CONT.	
C3	t x 800	4-15 VERT. CONT.	
C4	t x 400 x 400	4-15 VERT. CONT.	

t DENOTES THE WALL THICKNESS

MASONRY CORE FILLS NOTES:

1. PROVIDE CORE FILLS AS NOTED ON PLAN AND PROVIDE REINFORCEMENT AS SHOWN IN SCHEDULE.
2. CORE FILLS EXTEND FULL HEIGHT OF WALL, FLOOR TO FLOOR UNLESS NOTED.
3. INSTALL ALL REINFORCEMENT FULL HEIGHT BETWEEN FLOORS AND GROUT CORE SOLID FULL HEIGHT BETWEEN FLOORS UNLESS NOTED.
4. WHERE CORE FILL CONTINUES TO NEXT FLOOR ABOVE, EXTEND INDICATED VERTICAL REINFORCEMENT TO PROVIDE SPECIFIED CLASS "B" TENSION LAP SPLICE WITH REINFORCEMENT OF CORE ABOVE. WHERE MASONRY WALLS START ON TOP OF STEEL BEAMS, PROVIDE WELDABLE REINFORING DOWELS TO MATCH REINFORCING NOTED IN THIS SCHEDULE, OR EQUIVALENT 02L DEFORMED BAR ANCHORS
5. PROVIDE 15M DOWELS IN FOUNDATION WALLS FOR ALL WALL REINFORCEMENT UNLESS NOTED OTHERWISE.
6. REFER TO MSH FOR LAP LENGTHS FOR VERTICAL BARS AND DOWELS.
7. REFER TO CORE FILLS SCHEDULE FOR DETAILS AND REINFORCEMENT.
8. PROVIDE CORE FILL C1 AT EACH SIDE OF OPENINGS U/N OTHERWISE NOTED ON PLANS AND/OR SECTIONS.
   a) PROVIDE C1 AT UNSUPPORTED ENDS OF WALLS U/N.
   b) PROVIDE C1 AT EACH SIDE OF MOVEMENT JOINTS U/N.
9. PROVIDE CORE FILL C4 AT ALL WALL CORNERS U/N OTHERWISE IN PLANS AND/OR SECTIONS.
10. PROVIDE RS OR VS SERIES MOVEMENT JOINT BY BLOK-LOK OR EQUIVALENT FOR ALL VERTICAL MOVEMENT JOINTS IN EXTERIOR MASONRY WALLS EXCEEDING 4m IN HEIGHT.
11. SEISMIC MINIMUM REINFORCEMENT FOR WALLS
12. REINFORCE ALL MASONRY SILLS, INTERIOR AND EXTERIOR, AS PER THE REINFORCING INDICATED IN THIS SCHEDULE. GROUT TOP TWO COURSES OF ALL SILLS SOLID. FULLY GROUT ALL EXTERIOR SILLS.

TYPICAL MASONRY WALL REINFORCING SCHEDULE

VERTICAL BLOCK WALL REINFORCING LOAD BEARING AND NON-LOAD BEARING WALLS SCHEDULE:(TYP. U/N NOTED)

140mm 10M @ 1200 o/c MAX.
190mm 15M @ 800 o/c MAX.
240mm 15M @ 600 o/c MAX.
290mm 2-15M @ 200 o/c MAX.

HORIZONTAL WALL REINFORCING FOR MASONRY BLOCK WALLS - EXTERIOR WALLS:

190mm - EXTRA HEAVY BLOK-LOK BL10 OR EQUIV. @ 200 o/c MAX.
240mm - EXTRA HEAVY BLOK-LOK BL10 OR EQUIV. @ 200 o/c MAX.
290mm - EXTRA HEAVY BLOK-LOK BL30 OR EQUIV. @ 200 o/c MAX.

-INTERIOR WALLS: (140, 190, 240, 290mm)
- STANDARD BLOK-LOK BL10 OR EQUIV. @ 400 o/c MAX.

CONCRETE MIX SCHEDULE

EXPOSURE	ELEMENT	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa) 1	EXPOSURE CLASSIFICATION	NOTES
GENERAL NON-EXPOSED CONCRETE (i.e., NOT EXPOSED TO CHLORIDES NOR FREEZE AND THAW)	FOOTINGS	25	N	
	FOUNDATION / RETAINING WALLS	25	N	
	SLAB ON GRADE 2	25	N	
	SLAB ON METAL DECK	25	N	
	LEAN MIX	10	N	
	HOUSEKEEPING PADS	25	N	
	TOPPINGS 4	25	N	
	UNSHRINKABLE FILL	0.4 MAX.	N	
EXTERIOR EXPOSED CONCRETE (i.e., EXPOSED TO FREEZE AND THAW BUT NOT CHLORIDES)	FOUNDATION/RETAINING WALLS	25	F-2	
	SLAB ON GRADE 2 , SIDEWALKS	32	C-2	
AREAS EXPOSED TO CHLORIDES	FOOTINGS	35	C-1	
	PIERS	35	C-1	
	FOUNDATION/RETAINING WALLS	35	C-1	
	FROST SLABS	35	C-1	
GROUT	MASONRY FILL/BOND BEAMS	10 (FINE GROUT)		CONFORM TO REQUIREMENTS OF CSA A179

1) STRENGTH SPECIFIED AT 28 DAYS U.N.O IN DRAWINGS AND SCHEDULES.
2) REINFORCED WITH SYNTHETIC FIBERS ADDED AT BATCHING PLANT - SEE SPECIFICATIONS
3) REFER TO CAST-IN-PLACE CONCRETE NOTES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO MASS CONCRETE CASTING FOR ALL ELEMENTS > 1.0m IN DEPTH.
4) 10mm MAX. AGGREGATE SIZE.

FLOOR LINTEL SCHEDULE

REFER TO LINTEL NOTES A07 ON TYPICAL DETAIL DRAWINGS SEE ALSO SPECIFICATION

MARK	MATERIAL	TYPE	REMARKS
2L1	(2)-L89x89x7.9		
2L2	(2)-L127x89x7.9 (LLV)		
2L3	(2)-L152x89x7.9 (LLV)		
2L4	HSS 203x102x9.5 + 385x8mm BOTTOM PLATE		WP1 E.E.** SEE DL1/S1-00
2L5	W200x27 + 270x8mm BOTTOM PLATE		WP1 E.E.** CENTRED BEAM ON WALL
2L6	W410x39 + 270x8mm BOTTOM PLATE		WP1 E.E.** CENTRED BEAM ON WALL
2L7	(2)-L89x89x7.9 + LOOSE L89x89x6.4		
2L8	W200x27 + 170x8mm BOTTOM PLATE		WP1 E.E.** CENTRED BEAM ON WALL
2L9	W410x39 + 170x8mm BOTTOM PLATE		WP3 E.E.** CENTRED BEAM ON WALL
2L10	(2)-L152x102x7.9 (LLV)		
2L11	W200x36 + 220x8mm BOTTOM PLATE		WP2 E.E.** CENTRED BEAM ON WALL

TI = 10kN.M TORSION CONNECTION
ALL EXTERIOR LINTELS SUPPORTING FACE BRICK TO BE GALVANIZED

** WELDED TO LINTEL EACH END.

LENGTHS MAY VARY

ROOF LINTEL SCHEDULE

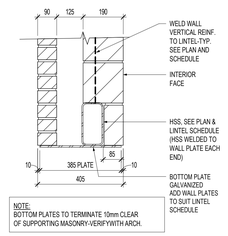
REFER TO LINTEL NOTES A07 ON TYPICAL DETAIL DRAWINGS SEE ALSO SPECIFICATION

MARK	MATERIAL	TYPE	REMARKS
RL1	(2)-L89x89x7.9		
RL2	(2)-L127x89x7.9 (LLV)		
RL3	(2)-L152x89x7.9 (LLV)		
RL4	HSS 203x102x6.4 + 385x8mm BOTTOM PLATE		WP1 E.E.** SEE DL1/S1-00
RL5	W200x27 + 270x8mm BOTTOM PLATE		WP1 E.E.** CENTRED BEAM ON WALL
RL6	W200x27 + 220x8mm BOTTOM PLATE		WP2 E.E.** CENTRED BEAM ON WALL
RL7	W200x27 + 170x8mm BOTTOM PLATE		WP1 E.E.** CENTRED BEAM ON WALL
RL8	W410x39 + 170x8mm BOTTOM PLATE		WP1 E.E.** CENTRED BEAM ON WALL
RL9	W410x54 + 8mm BOTTOM PLATE		WP1 E.E.** CENTRED BEAM ON WALL

TI = 10kN.M TORSION CONNECTION
ALL EXTERIOR LINTELS SUPPORTING FACE BRICK TO BE GALVANIZED

** WELDED TO LINTEL EACH END.

LENGTHS MAY VARY



NOTE:
BOTTOM PLATES TO TERMINATE 10mm CLEAR OF SUPPORTING MASONRY-VERIFY WITH ARCH.

DL1 / S1-00 — DETAIL — 1 : 10

MECHANICAL LINTEL SCHEDULE

LINTELS IN LOAD BEARING WALLS OVER MECHANICAL DUCTS ETC.

MARK	WALL THICKNESS	CLEAR SPAN	MATERIAL	TYPE	NOTES
ML	190	200-550	175x8 PLATE	——	
ML	190	550-1220	2-L90x90x6		
ML	240	200-550	225x8 PLATE	——	
ML	240	550-1220	2-L100x100x8		
ML	290	200-550	275x8 PLATE	——	
ML	290	550-1220	3-L90x90x6		
ML	190 + 90	200-550	175x8 PLATE + 80x8 PLATE	—— ——	CAVITY WALLS EXTERIOR ANGLES & PLATES GALVANIZED UNLESS NOTED
ML	190 + 90	550-1220	2-L90x90x6 + 1-L90x90x6		
ML	240 + 90	200-550	225x8 PLATE + 80x8 PLATE	—— ——	
ML	240 + 90	550-1220	2-L100x100x8 + 1-L90x90x6		
ML	290 + 90	200-550	275x8 PLATE + 80x8 PLATE	—— ——	
ML	290 + 90	550-1220	3-L90x90x6 + 1-L90x90x6		

1 FOR LINTELS MARKED ML ON DRAWINGS.
2 FOR SPANS LESS THAN 200mm - NO LINTEL REQUIRED.
3 FOR SPANS GREATER THAN 1200mm, SEE PLANS AND MAIN LINTEL SCHEDULE.

WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ALL LINTELS WHICH OCCUR IN LOAD BEARING MASONRY WALLS, IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE CORRECT SIZES AND QUANTITY OF LINTELS ARE PROVIDED

LINTELS IN NON-LOAD BEARING WALLS AND PARTITIONS ARE GENERALLY NOT SHOWN ON THE DRAWINGS. ALL SUCH LINTELS SHALL BE PROVIDED AS REQUIRED AND SHALL CONFORM TO THE NOTES & TYPICAL DETAILS ON THE STRUCTURAL DRAWINGS

PROVIDE MECHANICAL LINTELS IN ACCORDANCE WITH TYPICAL DETAILS AND NOTES FOR ALL DUCTS AND PIPES PASSING THROUGH MASONRY WALLS

WALL PLATE SCHEDULE
(LAST DIMENSION PARALLEL TO WEB)

MARK	MATERIAL	REMARKS
WP1	180x15x180	(2)13Ø A.BOLTS x 150 LG.
WP2	225x20x225	(2)13Ø A.BOLTS x 150 LG.
WP3	250x15x180	(2)13Ø A.BOLTS x 150 LG.
WP4	400x35x180 +25M ROCKER BAR	(2)13Ø A.BOLTS x 150 LG.

WP* DENOTES CONCRETE BEARING PAD, REFER TO TYPICAL DETAIL M05

NO.	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 09, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENSED PROFESSIONAL ENGINEER
25-06-08
J. C. GASDIA
100166574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

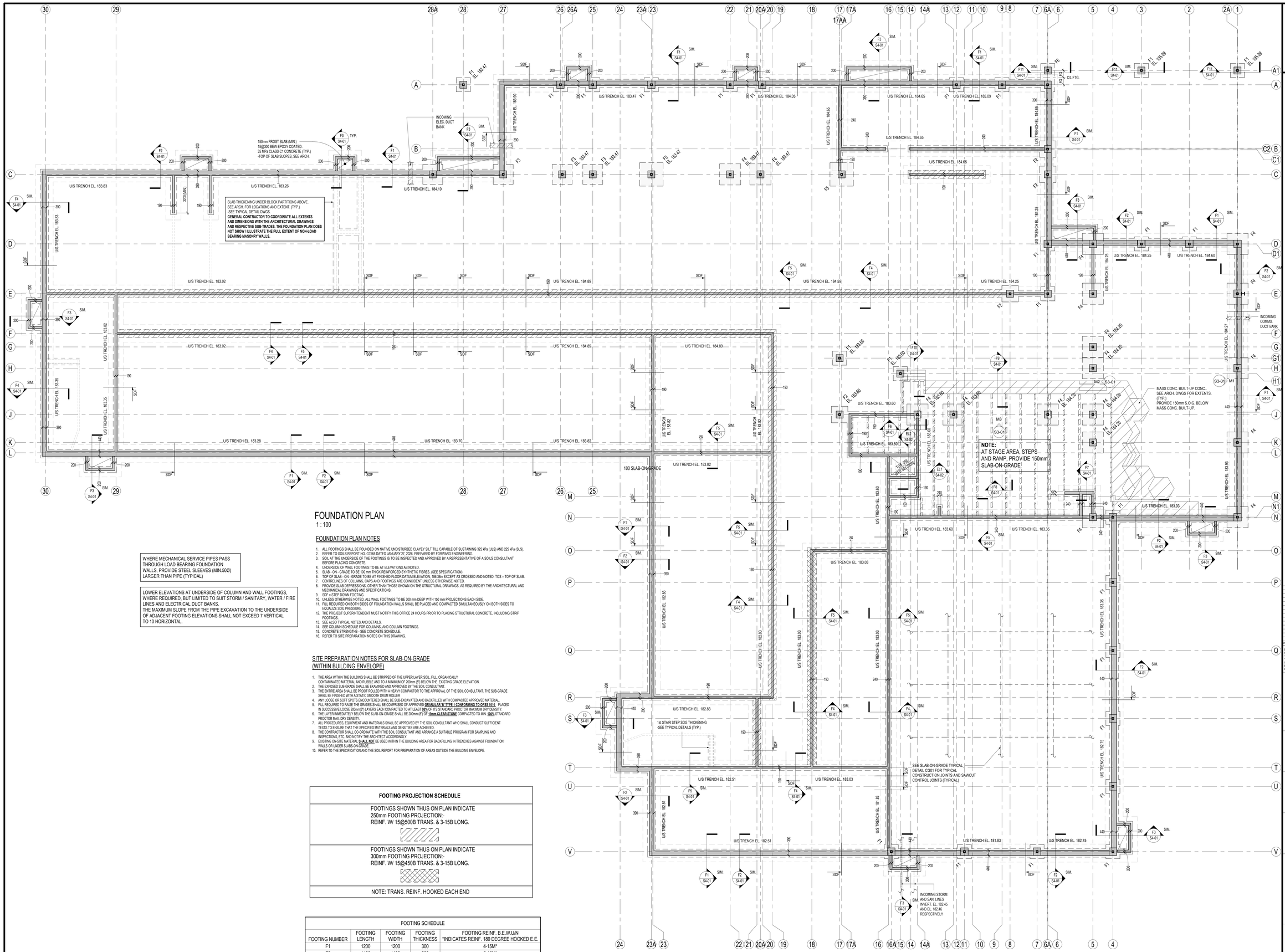
LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

DESIGN CRITERIA NOTES, MISC SCHEDULES AND DETAILS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE: As indicated	PROJECT: 2549-01176
DATE: JUNE 2026	
DRAWN: AE	DRAWING: S1-00
CHECKED: DG/JG	
PRINT DATE: 2026-06-05 10:12:36 AM	
REVIT FILE:	



FOUNDATION PLAN
1 : 100

FOUNDATION PLAN NOTES

1. ALL FOOTINGS SHALL BE FOUNDED ON NATIVE UNDISTURBED CLAYEY SILT TILL CAPABLE OF SUSTAINING 325 kPa (ULS) AND 225 kPa (SLS).
2. REFER TO SOILS REPORT NO. G7565 DATED JANUARY 27, 2026. PREPARED BY FORWARD ENGINEERING.
3. SOIL AT THE UNDERSIDE OF THE FOOTINGS IS TO BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF A SOILS CONSULTANT BEFORE PLACING CONCRETE.
4. UNDERSIDE OF WALL FOOTINGS TO BE AT ELEVATIONS AS NOTED.
5. SLAB - ON - GRADE TO BE 100 mm THICK REINFORCED SYNTHETIC FIBRES. (SEE SPECIFICATION)
6. TOP OF SLAB - ON - GRADE TO BE AT FINISHED FLOOR DATUM ELEVATION, 186.38m EXCEPT AS CROSSED AND NOTED. TOS = TOP OF SLAB.
7. CENTRELINES OF COLUMNS, CAPS AND FOOTINGS ARE CONCIDENT UNLESS OTHERWISE NOTED.
8. PROVIDE SLAB DEPRESSIONS, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, AS REQUIRED BY THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
9. SDF = STEP DOWN FOOTING.
10. UNLESS OTHERWISE NOTED, ALL WALL FOOTINGS TO BE 300 mm DEEP WITH 150 mm PROJECTIONS EACH SIDE.
11. FILL REQUIRED ON BOTH SIDES OF FOUNDATION WALLS SHALL BE PLACED AND COMPACTED SIMULTANEOUSLY ON BOTH SIDES TO EQUALIZE SOIL PRESSURE.
12. THE PROJECT SUPERINTENDENT MUST NOTIFY THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE, INCLUDING STRIP FOOTINGS.
13. SEE ALSO TYPICAL NOTES AND DETAILS.
14. SEE COLUMN SCHEDULE FOR COLUMNS, AND COLUMN FOOTINGS.
15. CONCRETE STRENGTHS - SEE CONCRETE SCHEDULE.
16. REFER TO SITE PREPARATION NOTES ON THIS DRAWING.

SITE PREPARATION NOTES FOR SLAB-ON-GRADE (WITHIN BUILDING ENVELOPE)

1. THE AREA WITHIN THE BUILDING SHALL BE STRIPPED OF THE UPPER LAYER SOIL, FILL, ORGANICALLY CONTAMINATED MATERIAL AND RUBBLE AND TO A MINIMUM OF 200mm (8") BELOW THE EXISTING GRADE ELEVATION.
2. THE EXPOSED SUB-GRADE SHALL BE EXAMINED AND APPROVED BY THE SOIL CONSULTANT.
3. THE ENTIRE AREA SHALL BE PROOF ROLLED WITH A HEAVY COMPACTOR TO THE APPROVAL OF THE SOIL CONSULTANT. THE SUB-GRADE SHALL BE FINISHED WITH A STATIC SMOOTH DRUM ROLLER
4. ANY LOOSE OR SOFT SPOTS ENCOUNTERED SHALL BE SUB-EXCAVATED AND BACKFILLED WITH COMPACTED APPROVED MATERIAL.
5. FILL REQUIRED TO RAISE THE GRADES SHALL BE COMPRISED OF APPROVED **GRANULAR 'B' TYPE I CONFORMING TO OPSS 1010**, PLACED IN SUCCESSIVE LOOSE 200mm(8") LAYERS EACH COMPACTED TO AT LEAST **98%** OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.
6. THE LAYER IMMEDIATELY BELOW THE SLAB-ON-GRADE SHALL BE 200mm (8") OF **19mm CLEAR STONE** COMPACTED TO MIN. **100%** STANDARD PROCTOR MAX. DRY DENSITY.
7. ALL PROCEDURES, EQUIPMENT AND MATERIALS SHALL BE APPROVED BY THE SOIL CONSULTANT WHO SHALL CONDUCT SUFFICIENT TESTS TO ENSURE THAT THE SPECIFIED MATERIALS AND DENSITIES ARE ACHIEVED.
8. THE CONTRACTOR SHALL CO-ORDINATE WITH THE SOIL CONSULTANT AND ARRANGE A SUITABLE PROGRAM FOR SAMPLING AND INSPECTIONS, ETC. AND NOTIFY THE ARCHITECT ACCORDINGLY.
9. EXISTING ON-SITE MATERIAL **SHALL NOT** BE USED WITHIN THE BUILDING AREA FOR BACKFILLING IN TRENCHES AGAINST FOUNDATION WALLS OR UNDER SLABS-ON-GRADE.
10. REFER TO THE SPECIFICATION AND THE SOIL REPORT FOR PREPARATION OF AREAS OUTSIDE THE BUILDING ENVELOPE.

WHERE MECHANICAL SERVICE PIPES PASS THROUGH LOAD BEARING FOUNDATION WALLS, PROVIDE STEEL SLEEVES (MIN.50Ø) LARGER THAN PIPE (TYPICAL)

LOWER ELEVATIONS AT UNDERSIDE OF COLUMN AND WALL FOOTINGS, WHERE REQUIRED, BUT LIMITED TO SUIT STORM / SANITARY, WATER / FIRE LINES AND ELECTRICAL DUCT BANKS.
THE MAXIMUM SLOPE FROM THE PIPE EXCAVATION TO THE UNDERSIDE OF ADJACENT FOOTING ELEVATIONS SHALL NOT EXCEED 7 VERTICAL TO 10 HORIZONTAL.

FOOTING PROJECTION SCHEDULE

FOOTINGS SHOWN THUS ON PLAN INDICATE 250mm FOOTING PROJECTION:- REINF. W/ 15@500B TRANS. & 3-15B LONG.
FOOTINGS SHOWN THUS ON PLAN INDICATE 300mm FOOTING PROJECTION:- REINF. W/ 15@450B TRANS. & 3-15B LONG.
NOTE: TRANS. REINF. HOOKED EACH END

FOOTING SCHEDULE

FOOTING NUMBER	FOOTING LENGTH	FOOTING WIDTH	FOOTING THICKNESS	FOOTING REINF. B.E.W.U/N *INDICATES REINF. 180 DEGREE HOOKED E.E.
F1	1200	1200	300	4-15M*
F2	1400	1400	300	5-15M*
F3	1700	1700	300	7-15M
F4	1800	1800	400	8-15M
F5	2000	2000	400	9-15M
F6	2400	1200	300	6-15M LONG., 8-15M TRANS.

NO	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 09, 2026
1	ISSUED FOR PERMIT AND COSTING	MAY. 06, 2026

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LICENSED PROFESSIONAL ENGINEER
05-06-26
J. C. GASDIA
100169574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD, OAKVILLE, ON

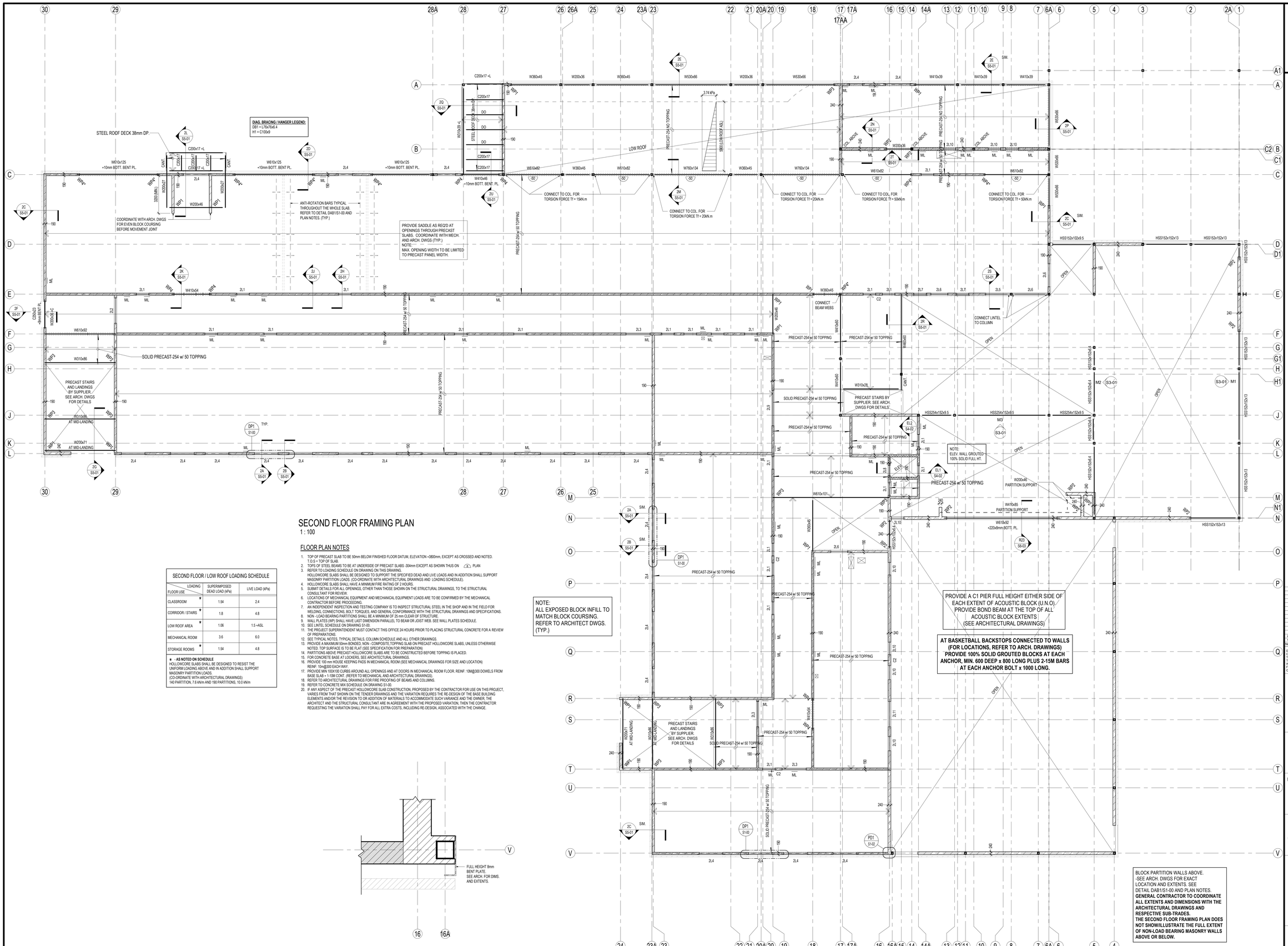
LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD

FOUNDATION PLAN

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE	As indicated
PROJECT	2549-01176
DATE	JUNE 2026
DRAWN	AE
CHECKED	CG/JG
DRAWING	S1-01
PRINT DATE	2026-06-05 10:12:36 AM
REVIT FILE	



SECOND FLOOR FRAMING PLAN
1 : 100

FLOOR PLAN NOTES

1. TOP OF PRECAST SLAB TO BE 50mm BELOW FINISHED FLOOR DATUM, ELEVATION +3800mm, EXCEPT AS CROSSED AND NOTED. T.O.S = TOP OF SLAB.
2. TOPS OF STEEL BEAMS TO BE AT UNDERSIDE OF PRECAST SLABS -304mm EXCEPT AS SHOWN THUS ON (A) PLAN
3. REFER TO LOADING SCHEDULE ON DRAWING ON THIS DRAWING. HOLLOWCORE SLABS SHALL BE DESIGNED TO SUPPORT THE SPECIFIED DEAD AND LIVE LOADS AND IN ADDITION SHALL SUPPORT MASONRY PARTITION LOADS. (CO-ORDINATE WITH ARCHITECTURAL DRAWINGS AND LOADING SCHEDULE).
4. HOLLOWCORE SLABS SHALL HAVE A MINIMUM FIRE RATING OF 2 HOURS.
5. SUBMIT DETAILS FOR ALL OPENINGS, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, TO THE STRUCTURAL CONSULTANT FOR REVIEW.
6. LOCATIONS OF MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT LOADS ARE TO BE CONFIRMED BY THE MECHANICAL CONTRACTOR BEFORE PROCEEDING.
7. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES, AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
8. NON - LOAD BEARING PARTITIONS SHALL BE A MINIMUM OF 25 mm CLEAR OF STRUCTURE.
9. WALL PLATES (WP) SHALL HAVE LAST DIMENSION PARALLEL TO BEAM OR JOIST WEB. SEE WALL PLATES SCHEDULE.
10. SEE LINTEL SCHEDULE ON DRAWING S1-00.
11. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW OF PREPARATIONS.
12. SEE TYPICAL NOTES, TYPICAL DETAILS, COLUMN SCHEDULE AND ALL OTHER DRAWINGS.
13. PROVIDE A MAXIMUM 50mm BONDED, NON - COMPOSITE TOPPING SLAB ON PRECAST HOLLOWCORE SLABS, UNLESS OTHERWISE NOTED. TOP SURFACE IS TO BE FLAT (SEE SPECIFICATION FOR PREPARATION)
14. PARTITIONS ABOVE PRECAST HOLLOWCORE SLABS ARE TO BE CONSTRUCTED BEFORE TOPPING IS PLACED.
15. FOR CONCRETE BASE AT LOCKERS, SEE ARCHITECTURAL DRAWINGS.
16. PROVIDE 100 mm HOUSE KEEPING PADS IN MECHANICAL ROOM (SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION) REINF - 15m@300 EACH WAY.
17. PROVIDE MIN 100X100 CURBS AROUND ALL OPENINGS AND AT DOORS IN MECHANICAL ROOM FLOOR. REINF: 10M@300 DOWELS FROM BASE SLAB + 1-10M CONT. (REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS).
18. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE PROOFING OF BEAMS AND COLUMNS.
19. REFER TO CONCRETE MIX SCHEDULE ON DRAWING S1-00.
20. IF ANY ASPECT OF THE PRECAST HOLLOWCORE SLAB CONSTRUCTION, PROPOSED BY THE CONTRACTOR FOR USE ON THIS PROJECT, VARIES FROM THAT SHOWN ON THE TENDER DRAWINGS AND THE VARIATION REQUIRES THE RE-DESIGN OF THE BASE BUILDING ELEMENTS AND/OR THE REVISION TO OR ADDITION OF MATERIALS TO ACCOMMODATE SUCH VARIANCE AND THE OWNER, THE ARCHITECT AND THE STRUCTURAL CONSULTANT ARE IN AGREEMENT WITH THE PROPOSED VARIATION, THEN THE CONTRACTOR REQUESTING THE VARIATION SHALL PAY FOR ALL EXTRA COSTS, INCLUDING RE-DESIGN, ASSOCIATED WITH THE CHANGE.

SECOND FLOOR / LOW ROOF LOADING SCHEDULE

FLOOR USE \ LOADING	SUPERIMPOSED DEAD LOAD (kPa)	LIVE LOAD (kPa)
CLASSROOM *	1.54	2.4
CORRIDOR / STAIRS *	1.8	4.8
LOW ROOF AREA *	1.06	1.5 +ASL
MECHANICAL ROOM	3.6	6.0
STORAGE ROOMS *	1.54	4.8

* - AS NOTED ON SCHEDULE
HOLLOWCORE SLABS SHALL BE DESIGNED TO RESIST THE UNIFORM LOADING ABOVE AND IN ADDITION SHALL SUPPORT MASONRY PARTITION LOADS. (CO-ORDINATE WITH ARCHITECTURAL DRAWINGS). 140 PARTITION, 7.6 kN/m AND 190 PARTITIONS, 10.0 kN/m

PD1 S1-02 PLAN DETAIL
1 : 10

NO.	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENSED PROFESSIONAL ENGINEER
25-06-08
J. C. GASDIA
100165674
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD

SECOND FLOOR FRAMING PLAN

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE: As indicated	PROJECT: 2549-01176
DATE: JUNE 2026	
DRAWN: AE	DRAWING: S1-02
CHECKED: CG/JG	
PRINT DATE: 2026-06-05 10:12:37 AM	
REVIT FILE:	

ROOF FRAMING PLAN
1 : 100

STEEL ROOF PLAN NOTES

1. UNDERSIDE OF ROOF DECK AT PERIMETER AND HIGH POINTS TO BE 0.0mm BELOW ROOF DATUM ELEVATION (SEE PLAN), EXCEPT AS NOTED ON PLAN U/O.D. = UNDERSIDE OF DECK.
2. ROOF DECK TO SLOPE TO DRAINS AS SHOWN ON PLAN ARCHITECTURAL DRAWINGS.
3. TOP OF STEEL BEAMS SUPPORTING STEEL DECK ARE 0.0mm BELOW U.O.D. TOP OF STEEL BEAM SUPPORTING JOISTS ARE 150mm BELOW U.O.D EXCEPT AS SHOWN THUS (X"), ON PLAN.
4. OWSJ SHOES TO BE 150mm DEEP UNLESS NOTED.
5. FOR LOADING SEE ROOF LOADING SCHEDULE ON THIS DRAWINGS.
6. OPEN WEB STEEL JOISTS SHALL BE DESIGNED TO SUPPORT TOTAL DEAD, SNOW AND SPACING AS SHOWN ON PLAN. LOADS. IN ADDITION, OWSJ SHALL BE DESIGNED FOR ADDITIONAL LOADS SHOWN ON PLAN, ACCUMULATED SNOW DRIFT LOADS (ASL) AND FOR POINT LOADS OF BRACING AND MECHANICAL EQUIPMENT, IN EXCESS OF 2 kN PER JOIST.
7. JOISTS AND BEARING ANCHORAGES SHALL BE DESIGNED TO RESIST UPLIFT DUE TO WIND AS REQUIRED BY THE ONTARIO BUILDING CODE AND IN NO CASE LESS THAN THE GREATER OF THOSE INDICATED ON THE WIND UPLIFT KEY PLAN.
8. OWSJ SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER, SHOP DRAWINGS AND CALCULATIONS BEARING THE STAMP AND SIGNATURE OF THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION.
9. PROVIDE CONTINUOUS TOP AND BOTTOM CHORD BRIDGING FOR OWSJ IN ACCORDANCE WITH CSA-S16.1 IN NO CASE LESS THAN AS SHOWN ON PLAN.
10. PROVIDE BOTTOM CHORD BRACING FOR ALL JOISTS NEAR THE FIRST BOTTOM CHORD PANEL POINT. BRIDGING CANNOT BE CONSIDERED AS BRACING.
11. "TJ" NOTED AGAINST JOIST DENOTES "TIE JOIST" I.E EXTEND BOTTOM CHORD AND CONNECT TO SUPPORT. TIE JOIST TO BE DESIGNED FOR 1% OF THE COLUMN AXIAL LOAD. SEE COLUMN SCHEDULE.
12. LIVE LOAD DEFLECTION OF ROOF JOISTS SHALL NOT EXCEED 1/240 OF SPAN UNLESS OTHERWISE NOTED.
13. STEEL ROOF DECK SHALL BE DESIGNED TO SUPPORT SPECIFIED TOTAL DEAD AND LIVE LOADS. MINIMUM BASE NOMINAL THICKNESS (BNT) OF STEEL DECK SHALL BE 0.76 MM.
14. NO HANGERS OR BRACKETS SUPPORTING MECHANICAL EQUIPMENT OR PIPING SHALL BE HUNG FROM ROOF DECK.
15. STEEL ROOF DECK SHALL BE INSTALLED FOR DIAPHRAGM ACTION IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE CANADIAN SHEET STEEL BUILDING INSTITUTE AND TYPICAL NOTES.
16. STEEL ROOF DECK SHALL BE INSTALLED FOR DIAPHRAGM ACTION IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE CANADIAN SHEET STEEL BUILDING INSTITUTE AND TYPICAL NOTES AS A MINIMUM, DESIGN ROOF DECK FOR A FACTORED DIAPHRAGM LOAD OF 10kN/m.
17. LOCATION OF MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT LOADS ARE TO BE CONFIRMED BY MECHANICAL CONTRACTOR BEFORE STRUCTURAL STEEL IS FABRICATED. REFER TO MECHANICAL DRAWINGS. UNLESS OTHERWISE APPROVED, MECHANICAL EQUIPMENT AND PIPING MUST BE HUNG FROM OWSJ PANEL POINTS AND HANGER SPACING SHALL NOT EXCEED 3.0 M.
18. FRAME ALL ROOF OPENINGS AND MECHANICAL UNITS AS SHOWN ON TYPICAL DETAILS UNLESS NOTED.
19. SUBMIT DETAILS TO STRUCTURAL CONSULTANT FOR REVIEW FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS.
20. "M" DENOTES MOMENT CONNECTION. FACTORED MOMENT AS SPECIFIED ON DRAWINGS IS IN kN METRES.
21. MOMENT CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. SHOP DRAWINGS AND CALCULATIONS BEARING THE STAMP AND SIGNATURE OF THE LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION.
22. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES, AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
23. NON-LOAD BEARING PARTITIONS SHALL BE A MINIMUM OF 25 mm CLEAR OF STRUCTURE.
24. WALL PLATES (WP) SHALL HAVE LAST DIMENSION PARALLEL TO BEAM OR JOIST WEB. SEE SCHEDULE ON DRAWINGS.
25. SEE ROOF LINTEL SCHEDULE ON DRAWING S1-00.
26. REFER TO GENERAL NOTES AND SPECIFICATION FOR GRADES OF STRUCTURAL STEEL AND STEEL DECK.
27. SEE TYPICAL NOTES, TYPICAL DETAILS, COLUMN AND FOOTING SCHEDULES AND ALL OTHER DRAWINGS.
28. FOR LOCATION OF ROOF ANCHORS AND DAVIT SUPPORTS, REFER TO ARCHITECTURAL DRAWINGS. REFER TO TYPICAL DETAILS FOR CONNECTION DETAILS. SUBMIT SHOP DRAWINGS FOR REVIEW AND COORDINATION.
29. REFER TO MANUFACTURER SPECIFICATIONS FOR GLULAM.
30. ALL GLULAM SHALL BE SPRUCE-PINE 20/E STRESS GRADE MINIMUM AND "QUALITY GRADE" IN APPEARANCE.

PRECAST ROOF PLAN NOTES

1. TOP OF CONCRETE SLABS AND STEEL DECK IS TO BE SLOPED TO DRAIN AS SHOWN ON ARCHITECTURAL DRAWINGS.
2. TOPS OF STEEL BEAMS TO BE AT UNDERSIDE OF PRECAST SLABS EXCEPT AS NOTED. (SLOPE AS REQUIRED)
3. DEAD LOAD - SEE LOAD SCHEDULE
4. SNOW LOAD IS 1.5 kPa IN ADDITION THE ROOF HAS BEEN DESIGNED FOR ACCUMULATED SNOW LOAD (ASL) AND LOADS DUE TO WATER RETENSION IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.
5. PRECAST SLABS TO BE DESIGNED TO SUPPORT SPECIFIED DEAD AND SNOW LOADS.
6. PRECAST SLABS SHALL HAVE A MINIMUM FIRE RATING OF 2 HOURS.
7. LOCATION OF MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT LOADS ARE TO BE CONFIRMED BY MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS. MECHANICAL EQUIPMENT AND PIPING MUST BE HUNG FROM OWSJ PANEL POINTS AND HANGER SPACING SHALL NOT EXCEED 3.0 m.
8. SUBMIT DETAILS FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS TO STRUCTURAL CONSULTANT FOR REVIEW.
9. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
10. NON-LOAD BEARING PARTITIONS SHALL BE A MINIMUM OF 25 mm CLEAR OF STRUCTURE.
11. WALL PLATES (WP) SHALL HAVE LAST DIMENSION PARALLEL TO BEAM OR JOIST WEB, SEE SCHEDULE ON DRAWINGS.
12. SEE LINTEL SCHEDULE ON THIS DRAWING AND WALL PLATE SCHEDULE ON S1-00.
13. SEE TYPICAL NOTES, TYPICAL DETAILS, COLUMN AND FOOTING SCHEDULE AND ALL OTHER DRAWINGS.
14. SEE SPECIFICATION FOR GRADE OF STRUCTURAL STEEL AND STEEL DECK.

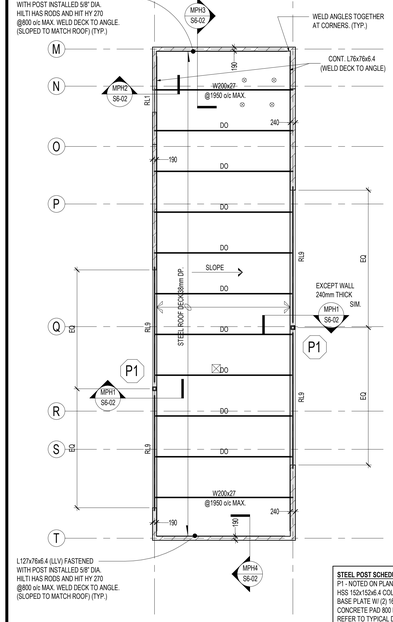
ROOF LOADING SCHEDULE		
ROOF USE / LOADING	SUPERIMPOSED DEAD LOAD (kPa)	SNOW LOAD (kPa)
STEEL DECK ROOF	0.91	1.5 +ASL
GENERAL ROOF	1.11	1.5 +ASL
CORRIDOR ROOF	1.26	1.5
MECHANICAL PENTHOUSE ROOF	1.76	1.5

IN ADDITION TO UNIFORM LOADING SHOWN, REFER TO ROOF PLAN FOR ADDITIONAL LOADING FOR ACCUMULATED SNOW LOADS (ASL) AS SHOWN, AND FOR POINT LOADS OF BRACING AND MECHANICAL EQUIPMENT.

IN ADDITION TO UNIFORM LOADING SHOWN, DESIGN JOISTS FOR ANY CONCENTRATED LOADS RESULTING FROM MECHANICAL PIPING OR AS A MINIMUM, DESIGN FOR POINT LOAD OF 3 kN AT ANY LOCATION.

NOTE: ROOFING SINGLE PLY = 0.72 kPa HAS BEEN INCLUDED IN THE ABOVE TABLE.

NOTE:
PAVER LOADING, IF APPLICABLE, SHALL BE COORDINATED WITH THE EXTENTS SHOWN IN THE ARCHITECTURAL DRAWINGS. WEIGHTS SHALL BE COORDINATED WITH THE SPECIFICATIONS AND FINAL PRODUCT SHOP DRAWINGS.

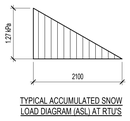


MPH ROOF FRAMING PLAN
1 : 100

MPH ROOF PLAN NOTES

1. U/S OF STEEL ROOF DECK AT HIGH POINT TO BE 0.0 BELOW ROOF DATUM ELEVATION +11200mm. EXCEPT AS NOTED. SLOPED AS SHOWN ON ARCHITECTURAL DRAWINGS.
2. TOP OF STEEL BEAMS TO BE 0.0mm BELOW U/S OF DECK, EXCEPT AS SHOWN THUS (X"), ON PLAN.
3. REFER ALSO TO STEEL ROOF FRAMING PLAN NOTES AND ROOF LOADING SCHEDULE.
4. REFER TO DRAWING S1-01 AND S1-00 FOR WALL PLATE SCHEDULES.

STEEL POST SCHEDULE:
P1 - NOTED ON PLAN
HSS 152x152x6.4 COLUMN + 300x16x180 BASE PLATE W/ (2) 16mma A.BOLTS.
CONCRETE PAD 800 LONG x 400 DEEP.
REFER TO TYPICAL DETAIL M11 / S7-03 FOR REINFORCING AND CONC. STRENGTH (TYP.)



TYPICAL ACCUMULATED SNOW LOAD DIAGRAM (ASL) AT RTUS

COORDINATE ALL MECHANICAL RTU'S OPENING LOCATIONS TO FIT BETWEEN FRAMING AND DUCTS / SERVICES TO FIT BETWEEN OWSJ WEBS AND BRIDGING.

REFER TO DRAWING S1-00 FOR MISC. MECHANICAL LINTELS FOR DUCT WORK.

NOTE:
DUCTS AND / OR ANY OTHER RECESSED MECHANICAL, ELECTRICAL OR ARCHITECTURAL ELEMENTS ARE NOT TO INTERFERE WITH VERTICAL WALL REINFORCING, WALL BEARING PLATES AND MASONRY CORE FILL PIERS.

NOTE:
ALL EXPOSED STEEL TO BE HOT-DIPPED GALVANIZED, INCLUDING NUTS, BOLTS AND WASHERS. (TYP.)

= FLAT ROOF

= CONT. LINTEL BLOCK BOND BEAM (SEE SECTIONS)

SUPPORTED PARTITION WALLS BELOW. PROVIDE LATERAL SUPPORT AT TOP OF MASONRY PARTITION WALLS. REFER TO TYPICAL DETAIL DWGS FOR SIZE AND SPACING. (TYP.)
NOTE:
GENERAL CONTRACTOR TO COORDINATE ALL EXTENTS AND DIMENSIONS OF NON-LOAD BEARING MASONRY WALLS WITH THE ARCHITECTURAL DRAWINGS AND RESPECTIVE SUB-TRADES. STRUCTURAL DRAWINGS DO NOT SHOW/ILLUSTRATE THE FULL EXTENT OF NON-LOAD BEARING MASONRY WALLS.

NOTE:
SEE ARCHITECTURAL DWGS FOR BASKETBALL BACK-STOPS SUSPENDED FROM JOISTS, ADD LOADS AS REQUIRED. (TYP.)

NOTE:
TRIM STEEL DECK ROOF OPENINGS AS PER TYPICAL DETAIL SR01 U/N. SUPPORT FRAMING FOR CEILING FANS AND ROOF TOP UNITS C150x12 (TYP U/N)
-SEE MECH. DWGS FOR LOCATIONS.

NOTE FOR GYMNASIUM OWSJ:
ALL DUCTWORK TO BE ABOVE BOTTOM CHORD OF JOISTS.
G.C. TO COORDINATE WITH ALL GYM EQUIPMENT, FINISHES AND MECHANICAL AND ARCHITECTURAL DRAWINGS.

NO	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

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LICENSED PROFESSIONAL ENGINEER
25-05-08
J. C. GASDIA
100169574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

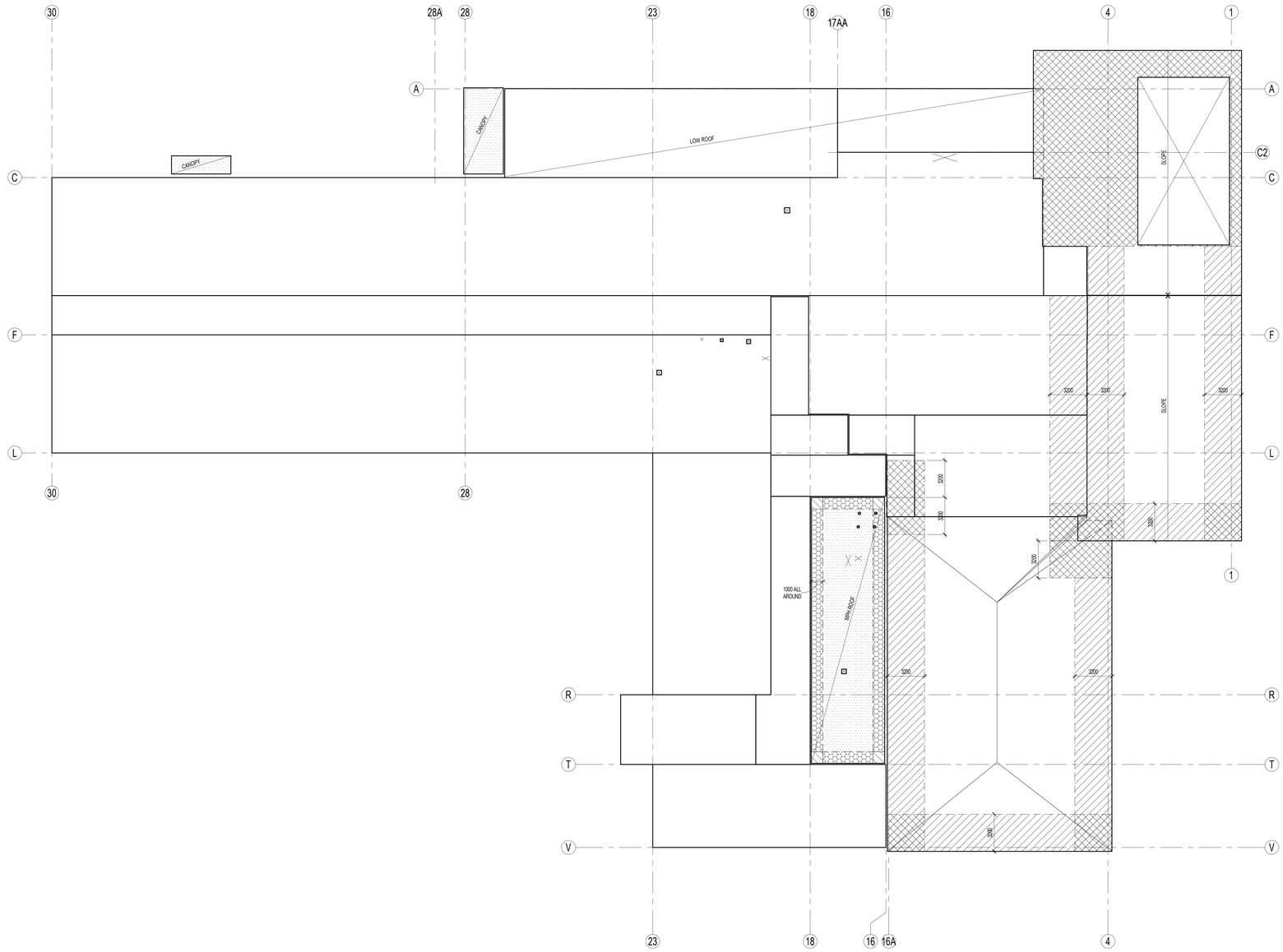
LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD

ROOF FRAMING PLAN

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE: As indicated	PROJECT: 2549-01176
DATE: JUNE 2026	
DRAWN: AE	DRAWING: S1-03
CHECKED: CG/JG	
PRINT DATE: 2026-06-05 10:12:40 AM	
REVIT FILE:	



WIND UPLIFT DIAGRAM PLAN
1 : 150

NOTES:

1. LOADS NOTED ARE WIND UPLIFT VALUES AND ARE NOT FACTORED.
2. ROOF JOISTS AND THEIR ANCHORAGE SHALL BE DESIGNED FOR THE MINIMUM NET UPLIFT VALUES AND NO LESS THAN THAT REQUIRED IN PART 4 OF THE ONTARIO BUILDING CODE.

LEGEND:

	1.25 kPa		3.08 kPa
	1.59 kPa		1.68 kPa
	1.34 kPa		3.28 kPa

NO.	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

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LICENSED PROFESSIONAL ENGINEER
25-05-22
J. C. GASPAR
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PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD

WIND UPLIFT DIAGRAM PLAN

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE: As indicated	PROJECT: 2549-01176
DATE: JUNE 2026	
DRAWN: AE	DRAWING: S1-04
CHECKED: CGJG	
PRINT DATE	2026-06-05 10:12:40 AM
REVIT FILE	

STEEL COLUMN SCHEDULE

Levels: U/S SLOPING HIGH ROOF DECK (HP) · T/O PRECAST ROOF (HP) · SECOND FLOOR · GROUND FLOOR · U/S B.PL. -350 (U.N.O.)

Column Locations	A-6A	A-9	A-12	A-20	A-22	A-23A	A-25	A-26	A-28	A1-2A
	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4
BASE PLATE	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325
ANCHOR RODS	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1
PIER SIZE	590x630	630x630	630x630	630x630	630x630	630x630	630x630	630x630	600x600	600x600
VERTICAL REINF.	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V
TIES	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T
FACTORED LOADING (kN)	200	125	125	200	225	250	175	175	75	75

Column Locations	A1-3	A1-6	C-6A	C-17A	C-20A	C-22	C-23A	C-25	C-26A	C-27
	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x9.5	HSS152x152x8.0	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4
BASE PLATE	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325
ANCHOR RODS	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1
PIER SIZE	600x600	600x600	590x590	600x600	600x600	600x600	600x600	600x600	600x600	600x600
VERTICAL REINF.	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V	10-15V
TIES	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T
FACTORED LOADING (kN)	175	150	500	1025	850	825	1000	675	675	725

Column Locations	C-28A	C1-6A	C2-10	C2-14	C2-17AA	D-5	D-6	D1-2	D1-2A	D1-3
	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4 (SEE DETAIL SC07/S7-04)	HSS152x152x6.4 (SEE DETAIL SC07/S7-04)	HSS152x152x6.4 (SEE DETAIL SC07/S7-04)	HSS152x152x9.5	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x9.5	HSS152x152x6.4
BASE PLATE	325x30x325	325x30x325				325x35x325	325x30x325	325x30x325	325x35x325	325x30x325
ANCHOR RODS	(4)-AR1	(4)-AR1				(4)-AR2	(4)-AR1	(4)-AR1	(4)-AR2	(4)-AR1
PIER SIZE	600x600	590x590				640x640	640x640	640x640	640x640	640x640
VERTICAL REINF.	10-15V	10-15V				12-15V	12-15V	12-15V	12-15V	12-15V
TIES	10@300T	10@300T				10@300T	10@300T	10@300T	10@300T	10@300T
FACTORED LOADING (kN)	450	450	225	375	200	100	100	50	50	50
						M			M	

Column Locations	E-2A	E-5	E-6	E-8	G-5	G1-17	H-2A	H-5	H1-15	J-5
	HSS152x152x9.5	HSS152x152x9.5	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x9.5	HSS152x152x9.5	HSS152x152x6.4	HSS152x152x9.5
BASE PLATE	325x35x325	325x35x325	325x30x325	325x30x325	325x30x325	325x30x325	325x35x325	325x35x325	325x30x325	325x35x325
ANCHOR RODS	(4)-AR2	(4)-AR2	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR2	(4)-AR2	(4)-AR1	(4)-AR2
PIER SIZE	640x640	600x600	600x600	600x600	600x600	600x600	640x640	600x600	600x600	600x600
VERTICAL REINF.	12-15V	10-15V	10-15V	10-15V	10-15V	10-15V	12-15V	10-15V	10-15V	10-15V
TIES	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T
FACTORED LOADING (kN)	150	200	275	450	50	400	175	175	200	100
	M	M					M	M		M

COLUMN SCHEDULE NOTES:

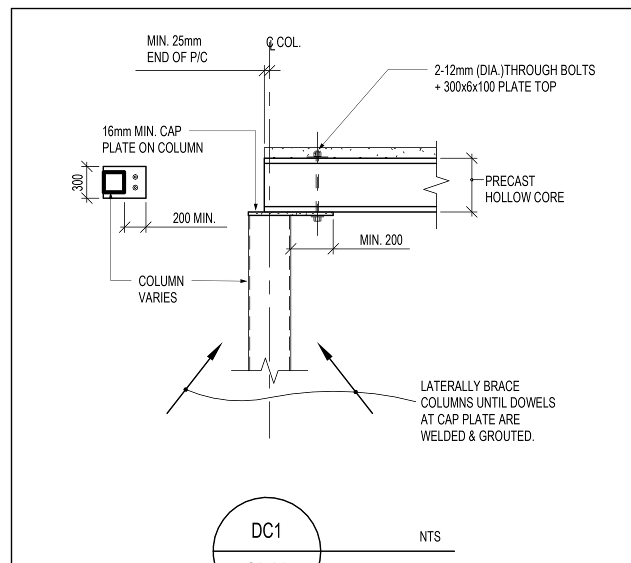
1. FOR GRADE OF STRUCTURAL STEEL SEE GENERAL NOTES AND SPECIFICATION.
2. LOADS FOR COLUMNS REPRESENT THE FACTORED LOAD IN KILONEWTONS APPLIED AT THE BASE OF THE COLUMN AND DO NOT INCLUDE THE WEIGHT OF THE FOUNDATION.
3. BASE PLATE AND / OR CAP PLATE DIMENSION GIVEN LAST TO BE PARALLEL WITH COLUMN WEB.
4. REFER ALSO TO TYPICAL NOTES AND DETAIL DRAWINGS.
5. REFER TO STEEL COLUMN SCHEDULE FOR ANCHOR RODS AND FOR COLUMN BASE PLATE SIZES
6. FOR ALL COLUMNS ABUTTING MASONRY, PROVIDE ADJUSTABLE MASONRY ANCHORS AS PER TYPICAL DETAIL. SEE TYPICAL DETAIL DRAWINGS.

STEEL COLUMN SCHEDULE

Levels: U/S SLOPING HIGH ROOF DECK (HP) · T/O PRECAST ROOF (HP) · SECOND FLOOR · GROUND FLOOR · U/S B.PL. -350 (U.N.O.)

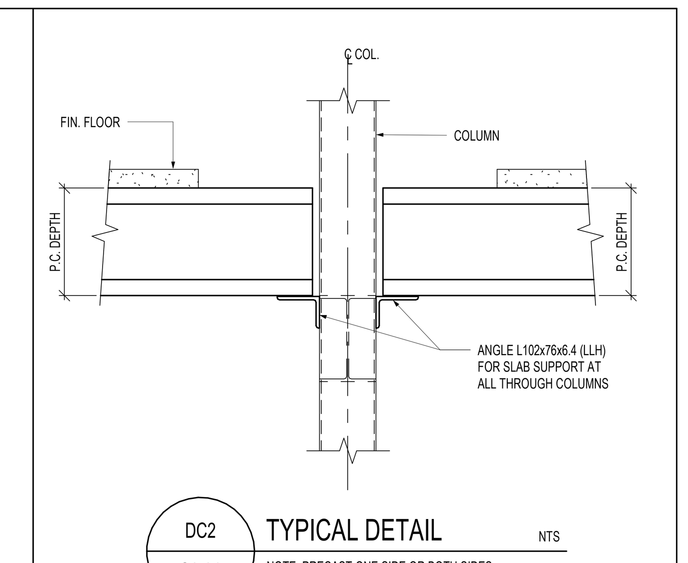
Column Locations	J-6	J-13	J-14A	J-17	K-2A	K-5	N-4	N-5	N1-2A
	HSS152x152x9.5	HSS152x152x9.5	HSS152x152x9.5	HSS152x152x6.4	HSS152x152x9.5	HSS152x152x9.5	HSS152x152x6.4	HSS152x152x9.5	HSS152x152x9.5
BASE PLATE	325x35x325	325x35x325	325x35x325	325x30x325	325x35x325	325x35x325	325x30x325	325x35x325	325x35x325
ANCHOR RODS	(4)-AR2	(4)-AR2	(4)-AR2	(4)-AR1	(4)-AR2	(4)-AR2	(4)-AR1	(4)-AR2	(4)-AR2
PIER SIZE	600x600	600x600	600x600	600x600	640x640	600x600	640x640	600x600	640x640
VERTICAL REINF.	10-15V	10-15V	10-15V	10-15V	12-15V	10-15V	12-15V	10-15V	12-15V
TIES	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T
FACTORED LOADING (kN)	300	275	250	500	175	175	100	275	275
	M	M	M		M	M		M	M

Column Locations	P-4	Q-4	S-4	U-4	V-4	V-7	V-11	V-16A
	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4
BASE PLATE	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325	325x30x325
ANCHOR RODS	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1	(4)-AR1
PIER SIZE	640x640	640x640	640x640	640x640	640x640	640x640	640x640	640x640
VERTICAL REINF.	12-15V	12-15V	12-15V	12-15V	12-15V	12-15V	12-15V	12-15V
TIES	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T	10@300T
FACTORED LOADING (kN)	200	200	200	200	125	75	75	50



DC1 / S2-01 NTS

TYPICAL AT TOPS OF ALL EXTERIOR COLUMNS SUPPORTING PRECAST



DC2 / S2-01 TYPICAL DETAIL NTS

NOTE: PRECAST ONE SIDE OR BOTH SIDES

FOR PRECAST SLAB SUPPORT AT ALL "THROUGH COLUMNS"

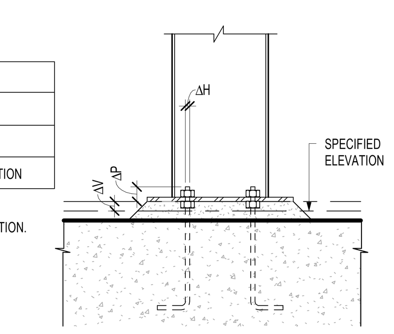
ERECTION TOLERANCES FOR STEEL COLUMNS — SC01A

(READ IN CONJUNCTION WITH SC01B, SAB02)

1. VERTICAL DEVIATION FROM SPECIFIED ELEVATION.

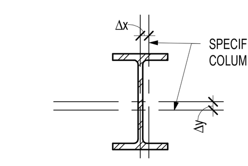
ANCHOR BOLTS:	ΔP = + 30mm (1-3/16") = - 5mm (3/16")
	ΔH = 3mm (1/8")
BASE PLATE:	ΔV = ± 5mm (3/16") 'SIMPLE CONSTRUCTION
	= ± 3mm (1/8") 'CONTINUOUS CONSTRUCTION

NOTE:
1. SEE TYPICAL DETAIL SAB02 FOR ADDITIONAL INFORMATION.



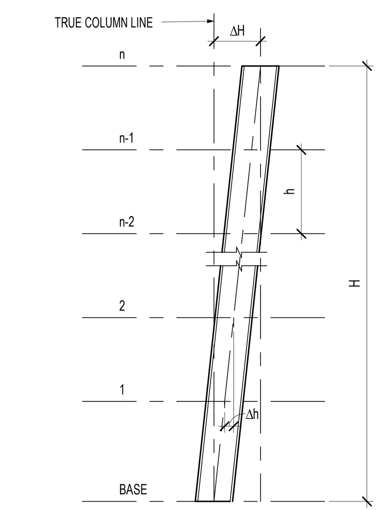
2. HORIZONTAL DEVIATION FROM SPECIFIED POSITION.

AT COLUMN BASE:	Δx/Δy = ± 5mm (3/16")



ABOVE COLUMN BASE:

EXTERIOR COLUMN/	ΔH < H/1000 TOTAL
COLUMN ADJACENT TO ELEVATOR SHAFTS:	ΔH < ± 25mm (1") TOTAL, Δh < 2mm (3/32") STOREY
ALL OTHER COLUMNS:	ΔH < H/500 AND, ΔH < ± 50mm (2") TOTAL, Δh < 4mm (3/16") STOREY

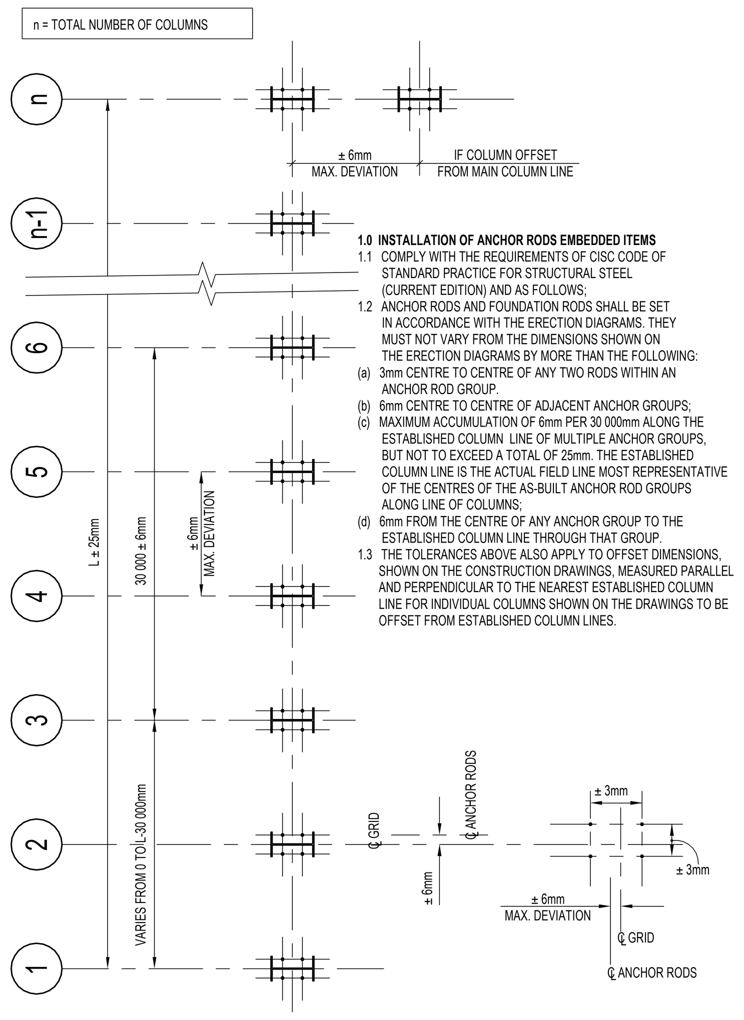


NOTES

1. TOLERANCES PROVIDED IN THE DETAIL ABOVE SHALL NOT SUPERSEDE THE VALUES INDICATED IN CSA S16 AND REFERENCED DOCUMENTS.

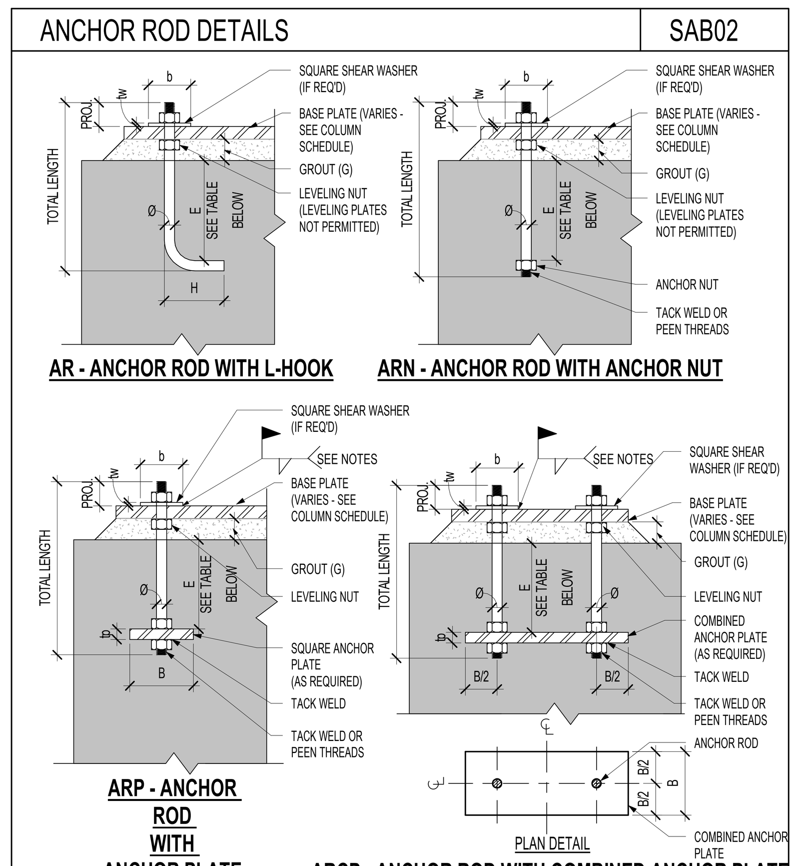
TOLERANCES ON ANCHOR ROD PLACEMENT — SAB01

n = TOTAL NUMBER OF COLUMNS



1.0 INSTALLATION OF ANCHOR RODS EMBEDDED ITEMS
1.1 COMPLY WITH THE REQUIREMENTS OF CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL (CURRENT EDITION) AND AS FOLLOWS;
1.2 ANCHOR RODS AND FOUNDATION RODS SHALL BE SET IN ACCORDANCE WITH THE ERECTION DIAGRAMS. THEY MUST NOT VARY FROM THE DIMENSIONS SHOWN ON THE ERECTION DIAGRAMS BY MORE THAN THE FOLLOWING:
(a) 3mm CENTRE TO CENTRE OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP.
(b) 6mm CENTRE TO CENTRE OF ADJACENT ANCHOR GROUPS;
(c) MAXIMUM ACCUMULATION OF 6mm PER 30 000mm ALONG THE ESTABLISHED COLUMN LINE OF MULTIPLE ANCHOR GROUPS, BUT NOT TO EXCEED A TOTAL OF 25mm. THE ESTABLISHED COLUMN LINE IS THE ACTUAL FIELD LINE MOST REPRESENTATIVE OF THE CENTRES OF THE AS-BUILT ANCHOR ROD GROUPS ALONG LINE OF COLUMNS;
(d) 6mm FROM THE CENTRE OF ANY ANCHOR GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
1.3 THE TOLERANCES ABOVE ALSO APPLY TO OFFSET DIMENSIONS, SHOWN ON THE CONSTRUCTION DRAWINGS, MEASURED PARALLEL AND PERPENDICULAR TO THE NEAREST ESTABLISHED COLUMN LINE FOR INDIVIDUAL COLUMNS SHOWN ON THE DRAWINGS TO BE OFFSET FROM ESTABLISHED COLUMN LINES.

ANCHOR ROD DETAILS — SAB02

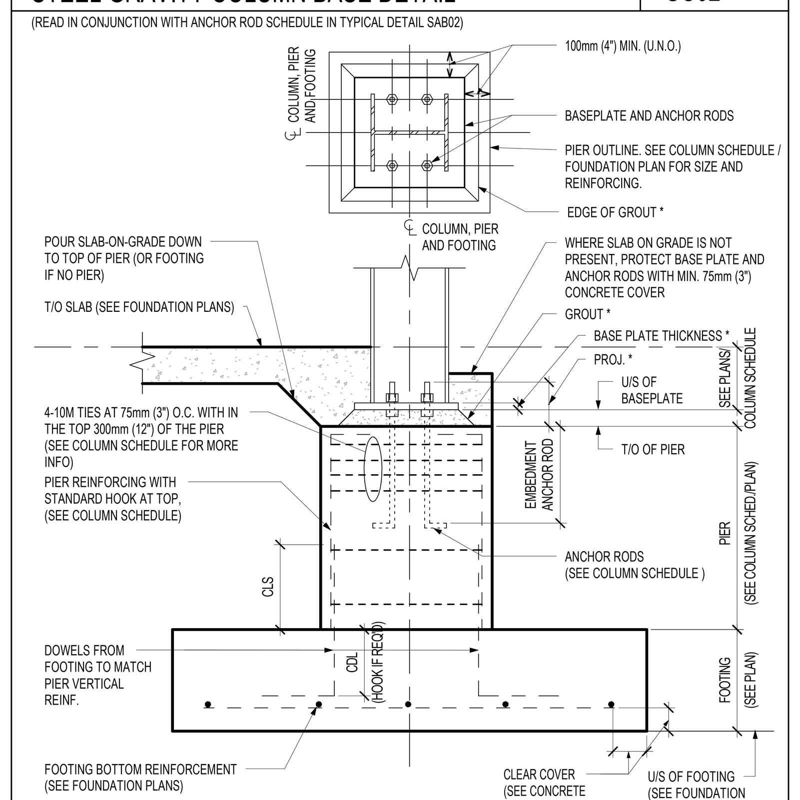


ANCHOR		ANCHOR ROD					GROUT	ANCHOR PLATE		PROJ.	SHEAR WASHER	
MARK	TYPE	DIA (Ø)	EMBED (E)	HOOK (H)	GRADE (KSI)	Hf (kN)	THICKNESS (G)	WIDTH (B)	THICK (tp)	(MIN)	WIDTH (b)	THICK (tw)
AR1	AR	3/4"	300	75	36	N/A	50	N/A	N/A	100	N/A	N/A
AR1	ARP	3/4"	300	N/A	36	20	50	60	14	100	N/A	N/A

NOTES:
1. DESIGN CONNECTION OF SHEAR WASHER TO BASE PLATE FOR Hf NOTED IN TABLE IN EACH PLAN DIRECTION. Hf NOTED IN TABLE IN EACH PLAN DIRECTION. IF NO FORCE NOTED, CONNECT FOR FULL SHEAR CAPACITY OF ANCHOR ROD.

STEEL GRAVITY COLUMN BASE DETAIL — SC02

(READ IN CONJUNCTION WITH ANCHOR ROD SCHEDULE IN TYPICAL DETAIL SAB02)

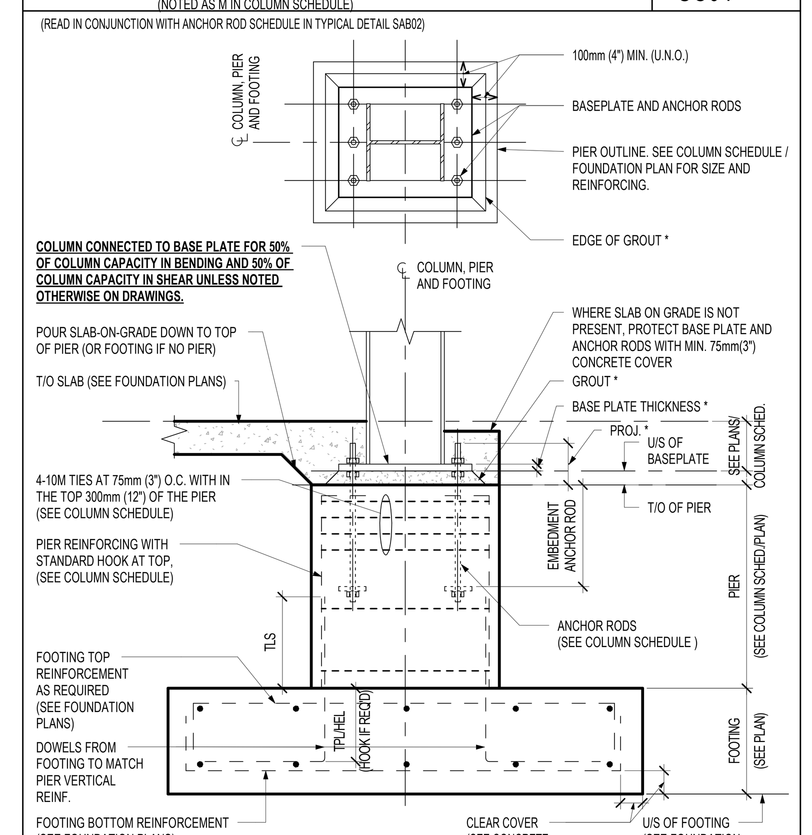


NOTES:
1. FOOTINGS SHALL BE PLACED ON UNDISTURBED SOIL WITH A MINIMUM BEARING CAPACITY AS NOTED ON THE DRAWINGS.
2. GROUT UNDER BASE PLATES SHALL BE AN APPROVED PROPRIETARY BRAND PRE-MIXED, NON-METALLIC, NON-SHRINK GROUT UNLESS OTHERWISE APPROVED.
3. LEVELING PLATES ARE NOT PERMITTED.
4. REFER TO COLUMN SCHEDULE/FOUNDATION PLAN FOR BASE PLATES, ANCHOR ROD, PIER, FOOTING DIMENSIONS AND REINFORCEMENT.
5. REFER TO A04, SAB02 FOR ANCHOR ROD GRADE
6. REFER ALSO TO GENERAL NOTES, STEEL NOTES AND CAST-IN-PLACE CONCRETE NOTES.
7. REFER TO SPLICE AND DEVELOPMENT TABLES IN C02A, C02B, C03A AND C03B.
8. REFER TO SAB02 FOR ALL ITEMS MARKED WITH *

STEEL MOMENT COLUMN BASE DETAIL — SC04

(NOTED AS M IN COLUMN SCHEDULE)

(READ IN CONJUNCTION WITH ANCHOR ROD SCHEDULE IN TYPICAL DETAIL SAB02)



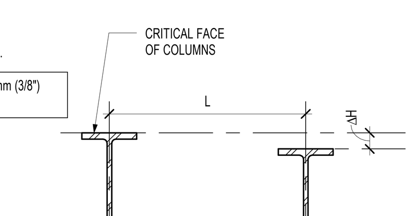
NOTES:
1. FOUNDATION DESIGN MOMENT Mf NOTED IN COLUMN SCHEDULE.
2. GROUT UNDER BASE PLATES SHALL BE AN APPROVED PROPRIETARY BRAND PRE-MIXED, NON-METALLIC, NON-SHRINK GROUT UNLESS OTHERWISE APPROVED.
3. LEVELING PLATES ARE NOT PERMITTED.
4. REFER TO COLUMN SCHEDULE/FOUNDATION PLAN FOR BASE PLATES, ANCHOR ROD, PIER, FOOTING DIMENSIONS AND REINFORCEMENT.
5. REFER TO A04, SAB02 FOR ANCHOR ROD GRADE.
6. REFER ALSO TO GENERAL NOTES, STEEL NOTES AND CAST-IN-PLACE CONCRETE NOTES.
7. REFER TO SPLICE AND DEVELOPMENT TABLES IN C02A, C02B, C03A AND C03B.
8. THIS DETAIL APPLIES FOR CONVENTIONAL CONSTRUCTION ONLY (Rd=1.5).
9. REFER TO SAB02 FOR ALL ITEMS MARKED WITH *.

ERECTION TOLERANCES FOR STEEL COLUMNS — SC01B

(READ IN CONJUNCTION WITH SC01A)

3. HORIZONTAL DEVIATION FROM ADJACENT COLUMNS.

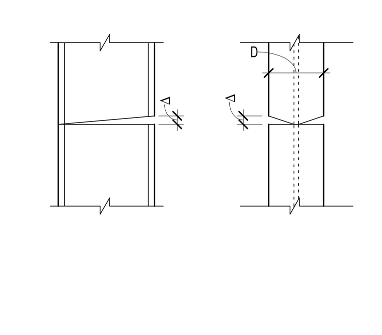
BASE LEVEL OR SPLICE LEVEL: OR = L/1000	ΔH = 10mm (3/8")



4. GAP BETWEEN BEARING SURFACES.

ΔMAX = 6mm (1/4)*

* PACK GAP WITH NON TAPERED STEEL SHIMS UNTIL AT LEAST 85% OF THE CROSS SECTIONAL AREA IS BEARING.



NOTES

1. TOLERANCES PROVIDED IN THE DETAIL ABOVE SHALL NOT SUPERSEDE THE VALUES INDICATED IN CSA S16 AND REFERENCED DOCUMENTS.
2. FOR ERECTION TOLERANCES OF SPECIAL MEMBERS SUCH AS CRANE GIRDERS, CRANE RAILS AND MONORAIL BEAMS, SEE THE APPROPRIATE CODE RECOMMENDATIONS.
3. DEVIATIONS SHOWN FOR W-SHAPES ALSO APPLY TO BUILT-UP SECTIONS, HOLLOW STRUCTURAL SECTIONS, CHANNEL AND ANGLE SHAPES.
4. ERECTION TOLERANCES ARE TO BE MEASURED IN CALM WEATHER. RECORD AMBIENT TEMPERATURE AT TIME TOLERANCES ARE VERIFIED.

NO	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENSED PROFESSIONAL ENGINEER 26-06-08 J. C. GASDIA 100169574 PROVINCE OF ONTARIO

North Oakville #3 CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

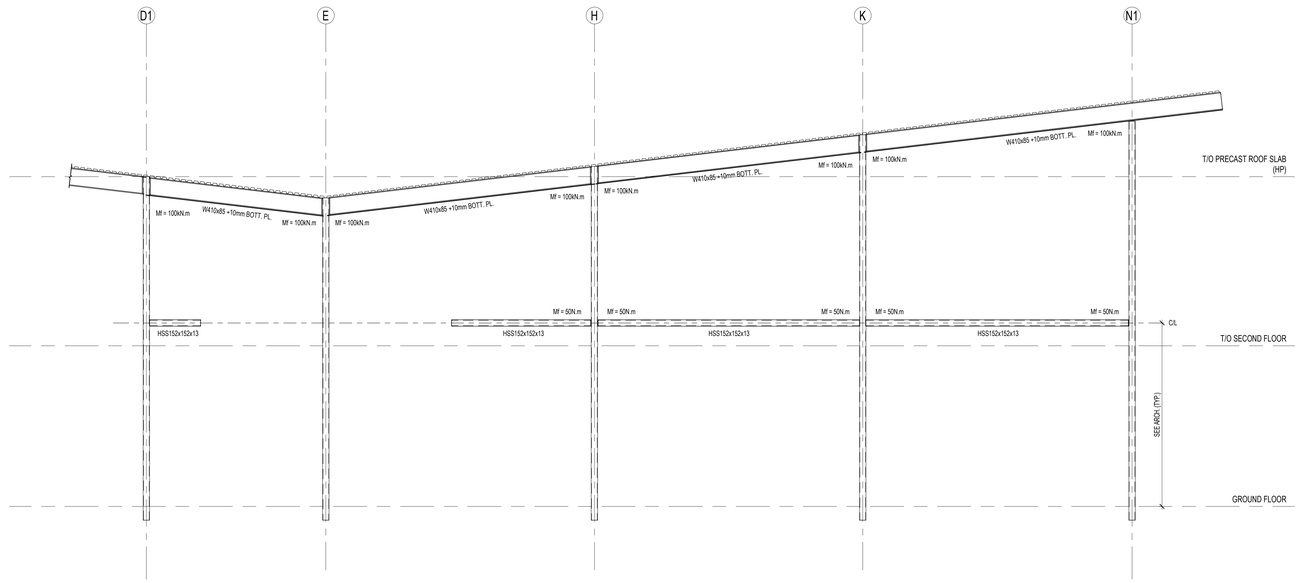
LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD HCDSB

COLUMN SCHEDULE

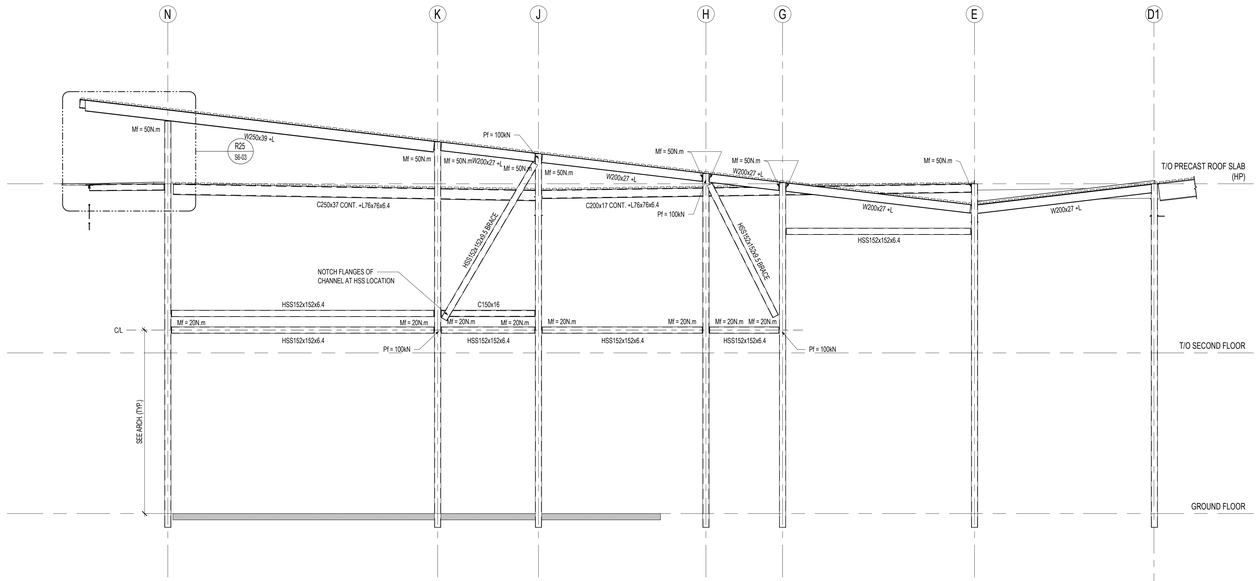
Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE	As indicated	PROJECT	2549-01176
DATE	JUNE 2026		
DRAWN	AE	DRAWING	S2-01
CHECKED	CG/JG		
PRINT DATE	2026-06-05 10:12:42 AM		
REVIT FILE			



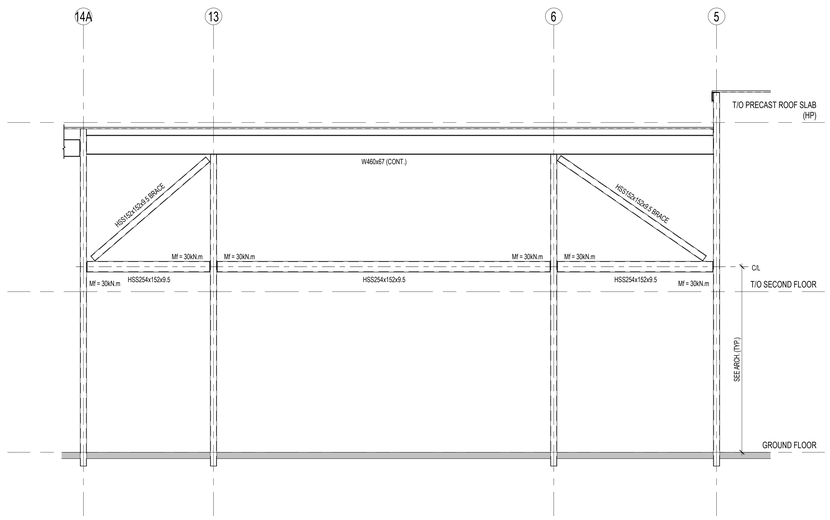
M1 FRAMING ELEVATION

S3-01 1 : 50



M2 FRAMING ELEVATION

S3-01 1 : 50



M3 FRAMING ELEVATION

S3-01 1 : 50

NO.	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENSED PROFESSIONAL ENGINEER
25-05-22
J. C. GASPAR
100169574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

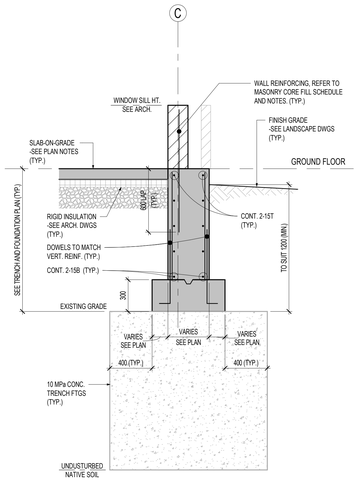
LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD

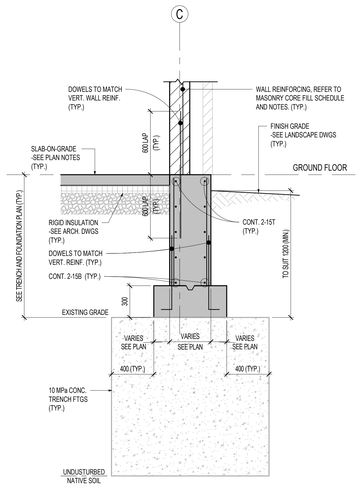
LATERAL STEEL FRAME ELEVATIONS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

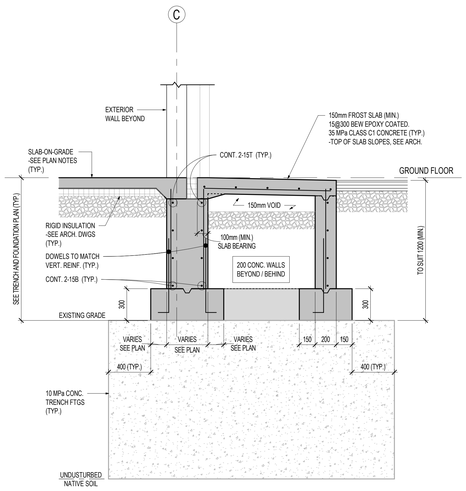
SCALE 1 : 50	PROJECT 2549-01176
DATE JUNE 2026	
DRAWN AE	DRAWING S3-01
CHECKED CG/JG	
PRINT DATE	2026-06-05 10:12:43 AM
REVIT FILE	



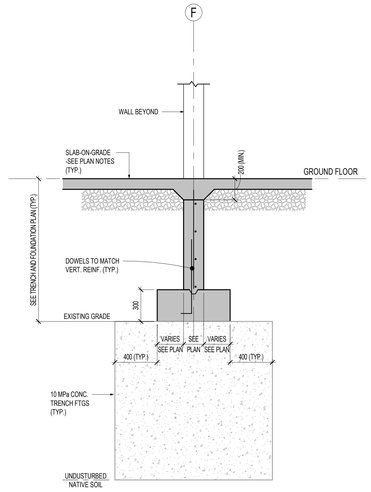
F1 SECTION
S4-01 1 : 20



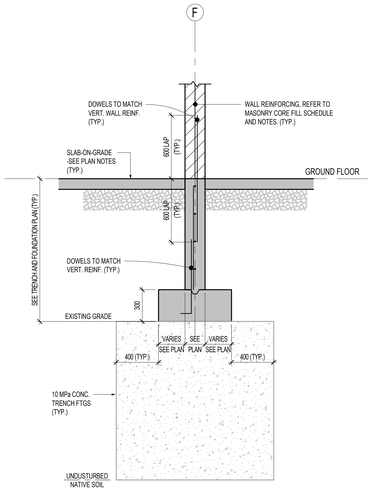
F2 SECTION
S4-01 1 : 20



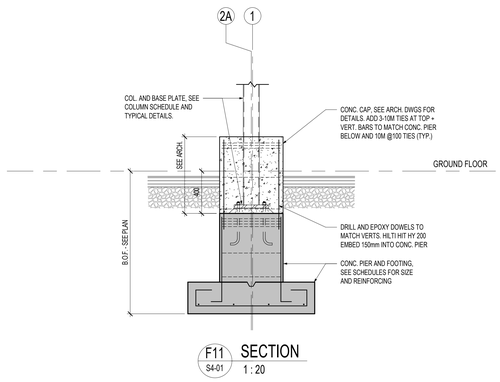
F3 SECTION
S4-01 1 : 20



F4 SECTION
S4-01 1 : 20



F5 SECTION
S4-01 1 : 20

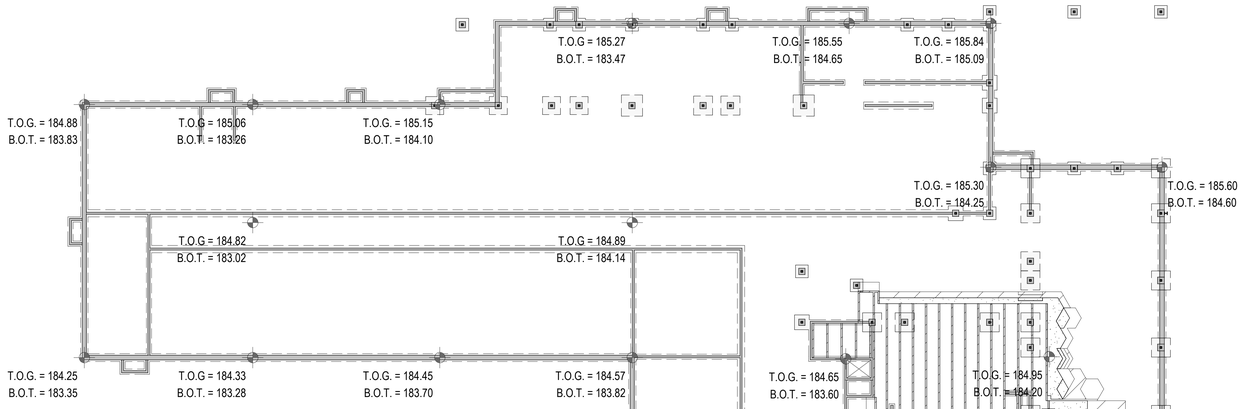


F11 SECTION
S4-01 1 : 20

TABLE 1: FOUNDATION WALL REINFORCING (UNO)

WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT	
	HORIZONTAL	VERTICAL
=< 190/200	10@330mm (CENTERED)	10@440mm (CENTERED)
=< 200	10@400 HEF	10@440 VEF
=< 300	10@200 HEF	10@440 VEF
=< 350	10@280 HEF	10@380 VEF
=< 400	10@240 HEF	10@325 VEF

WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT	
	HORIZONTAL	VERTICAL
=< 450	15@440 HEF	10@280 VEF
=< 500	15@400 HEF	15@440 VEF
=< 600	15@300 HEF	15@440 VEF



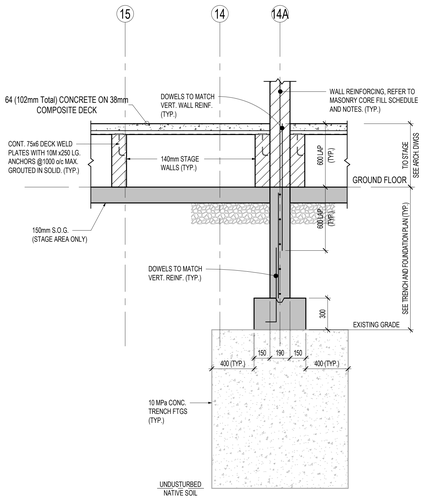
TRENCH AND POUR EXCAVATION PLAN
1 : 200

LEGEND:
T.O.G = TOP OF EXISTING GRADE, REFER TO GEOTECHNICAL REPORT BOREHOLES LOGS

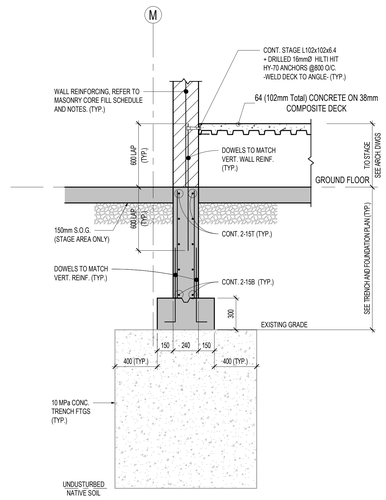
B.O.T. = EXPECTED BOTTOM OF TRENCH

F.F.E. = 186.38

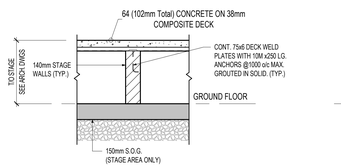
NOTE: CONTRACTOR TO CONSIDER FOUNDATION WALL HEIGHT BASED OFF T.O.G. TO F.F.E. FOR ESTIMATING PURPOSES.



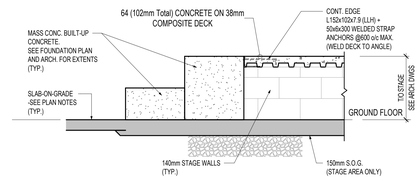
F6 SECTION
S4-01 1 : 20



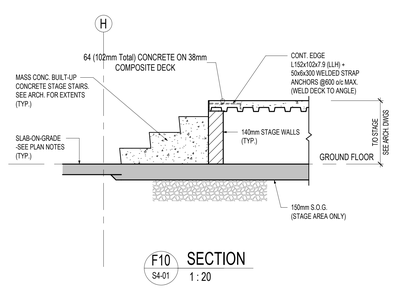
F7 SECTION
S4-01 1 : 20



F8 SECTION
S4-01 1 : 20



F9 SECTION
S4-01 1 : 20



F10 SECTION
S4-01 1 : 20

NO	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

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LICENSED PROFESSIONAL ENGINEER
25-05-08
J. C. GASDIA
100169574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD, OAKVILLE, ON

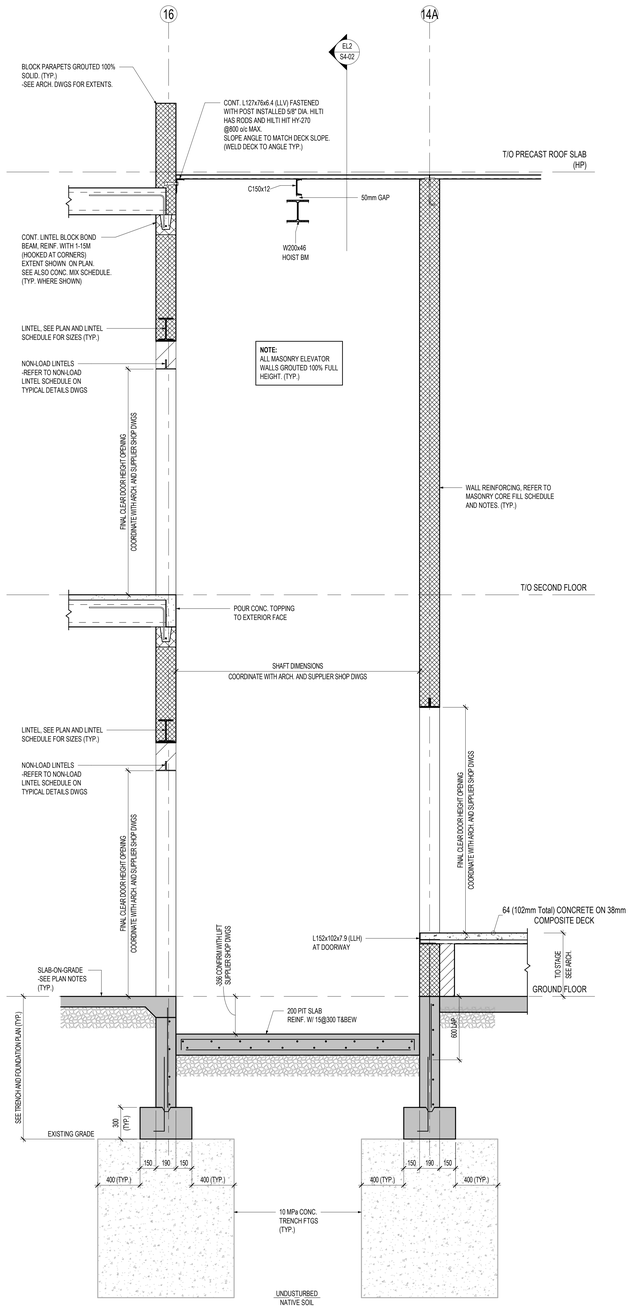
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HALTON CATHOLIC DISTRICT SCHOOL BOARD

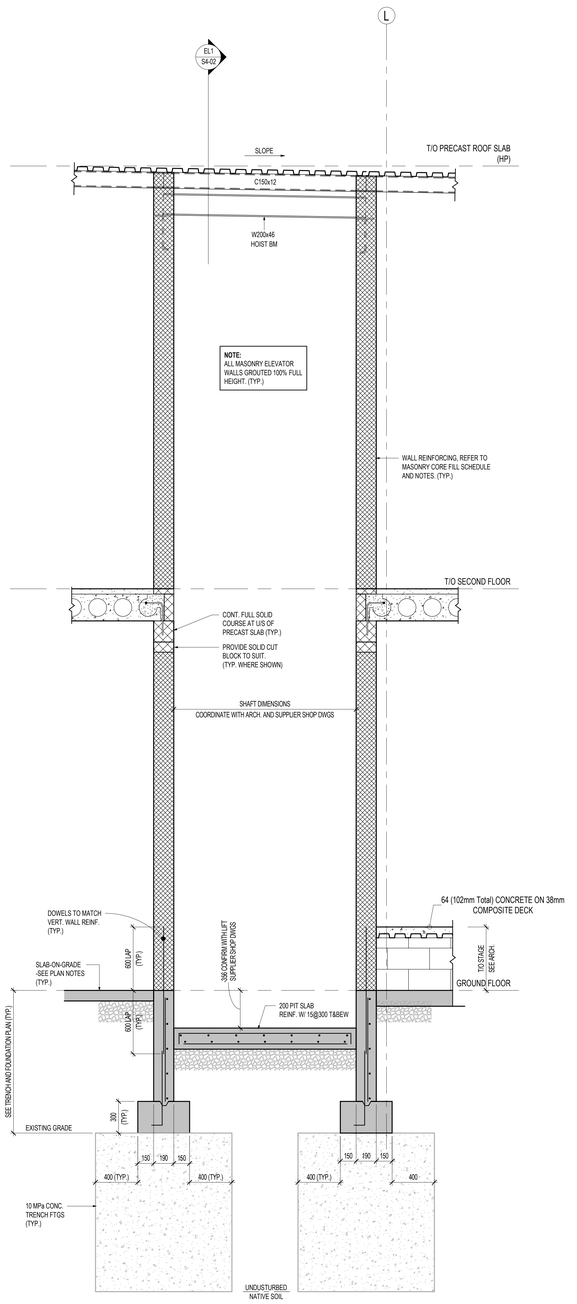
FOUNDATION SECTIONS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE: As indicated	PROJECT: 2549-01176
DATE: JUNE 2026	
DRAWN: AE	DRAWING: S4-01
CHECKED: CG/JG	
PRINT DATE: 2026-06-05 10:12:45 AM	
REVIT FILE:	



EL1 S4-02 SECTION
1 : 20



EL2 S4-02 SECTION
1 : 20

TABLE 1: FOUNDATION WALL REINFORCING (UNO)

WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT HORIZONTAL	VERTICAL
=< 190/200	10@120H (CENTERED)	10@440V (CENTERED)
=< 250	10@400 HEF	10@400 VEF
=< 300	10@320 HEF	15@440 VEF
=< 350	10@280 HEF	10@280 VEF
=< 400	10@240 HEF	10@200 VEF

WALL THICKNESS (mm)	NOMINAL WALL REINFORCEMENT HORIZONTAL	VERTICAL
=< 450	15@440 HEF	15@280 VEF
=< 500	15@400 HEF	15@400 VEF
=< 600	15@200 HEF	15@440 VEF

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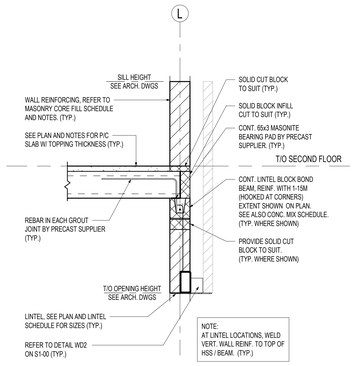
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HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

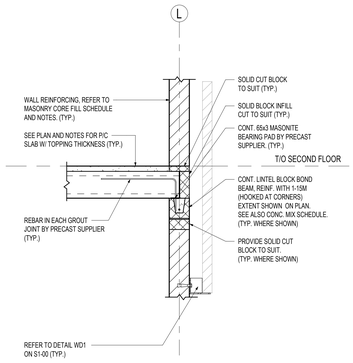
ELEVATOR SECTIONS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

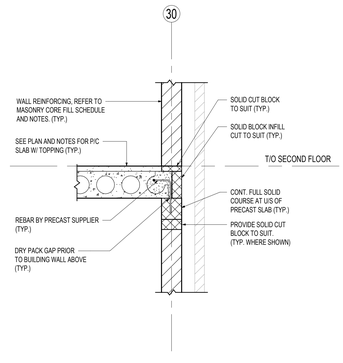
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PROJECT	2549-01176
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DRAWING	S4-02
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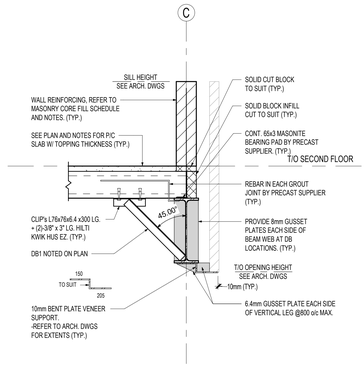
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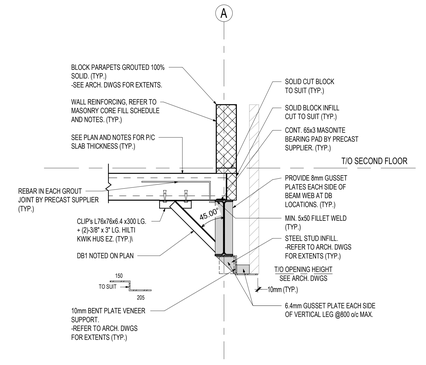
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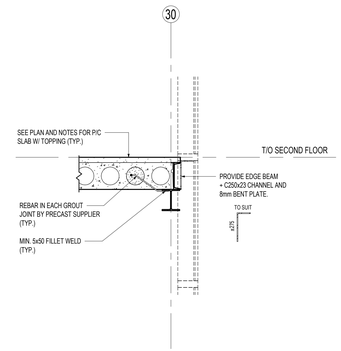
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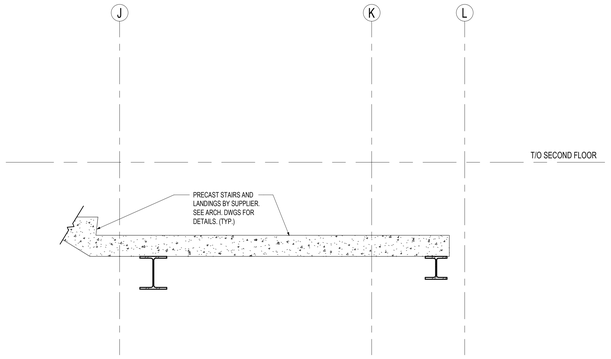
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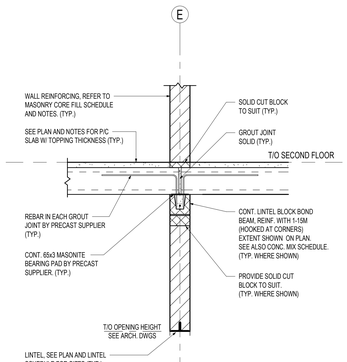
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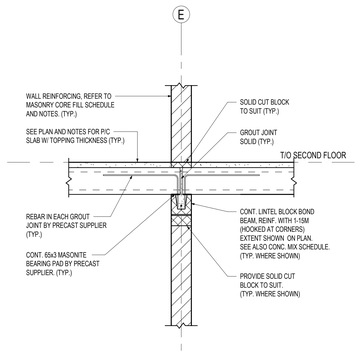
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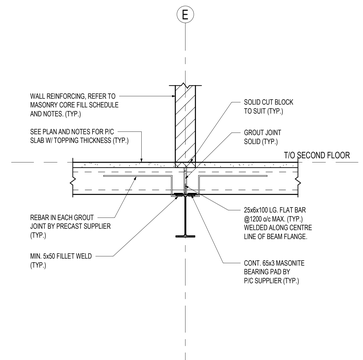
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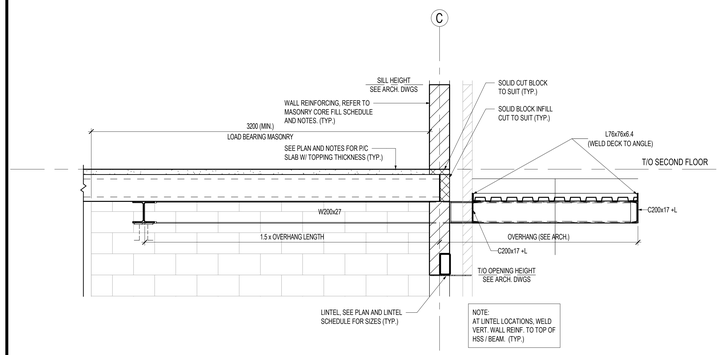
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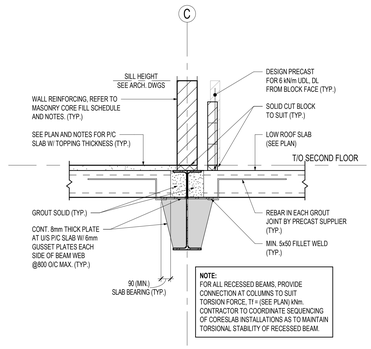
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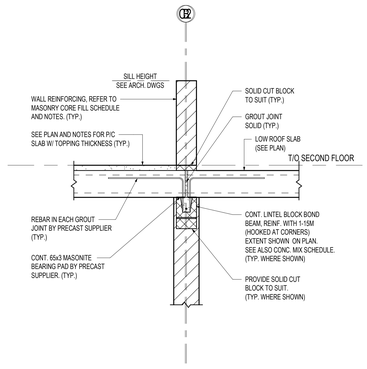
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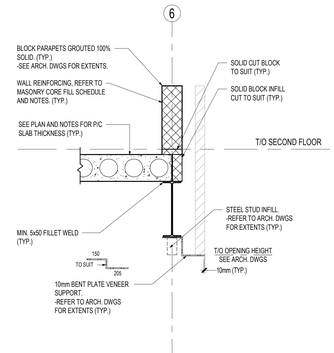
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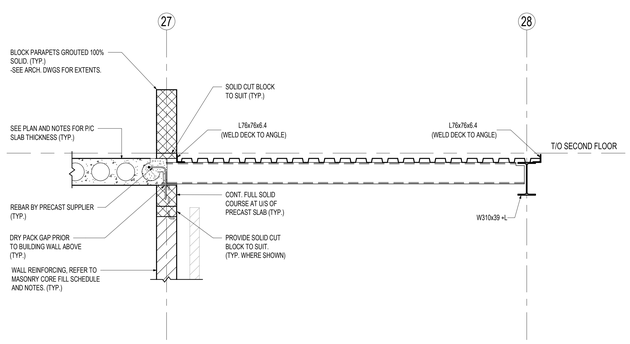
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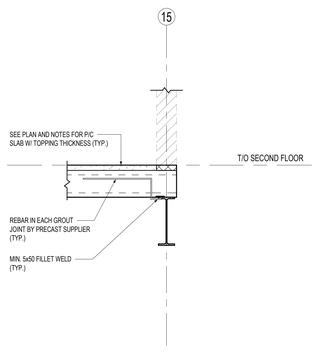
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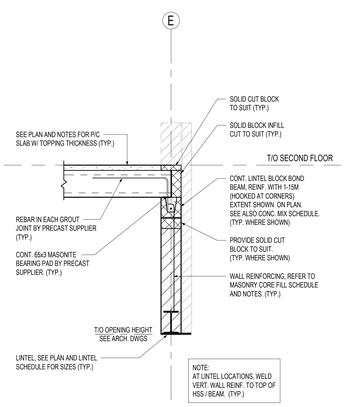
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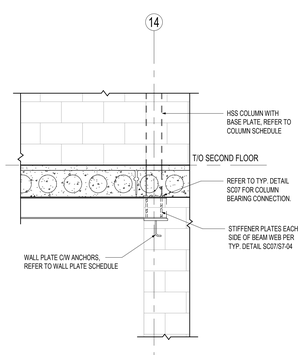
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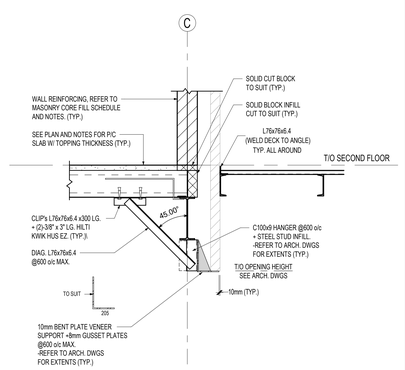
2R SECTION
S5-01 1 : 20



2S SECTION
S5-01 1 : 20



2T SECTION
S5-01 1 : 20



2U SECTION
S5-01 1 : 20

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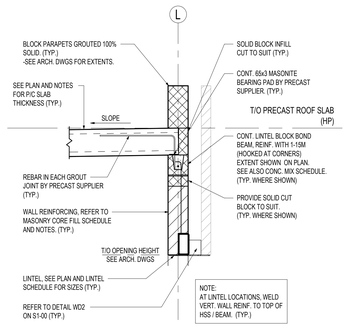
LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD

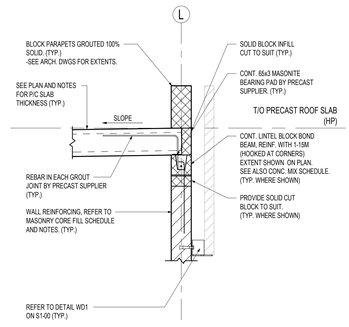
FLOOR SECTIONS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

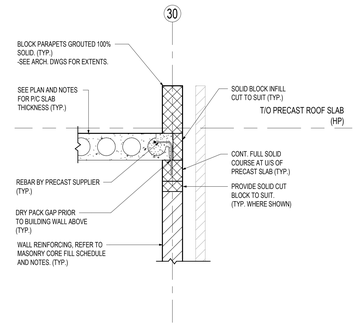
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DATE JUNE 2026	
DRAWN AE	DRAWING S5-01
CHECKED CG/JG	
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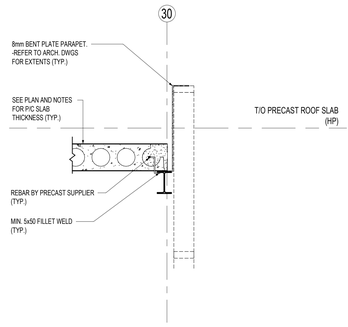
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R2 S6-01 SECTION 1 : 20

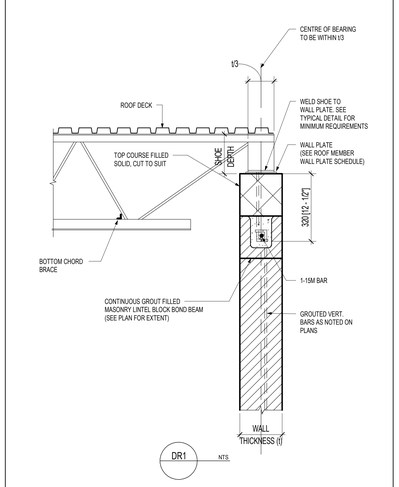


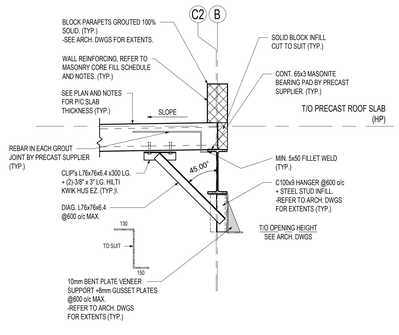
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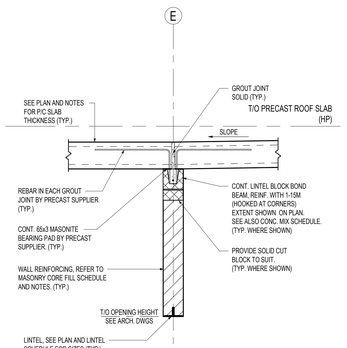
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STEEL JOIST 'UPLIFT' BEARING ON MASONRY WALL — M16

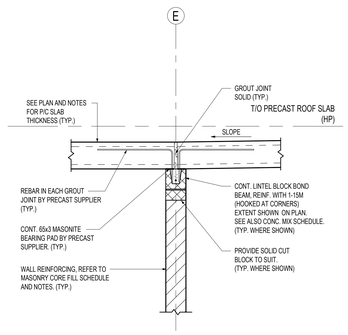




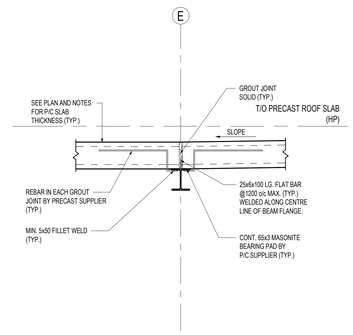
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R6 S6-01 SECTION 1 : 20

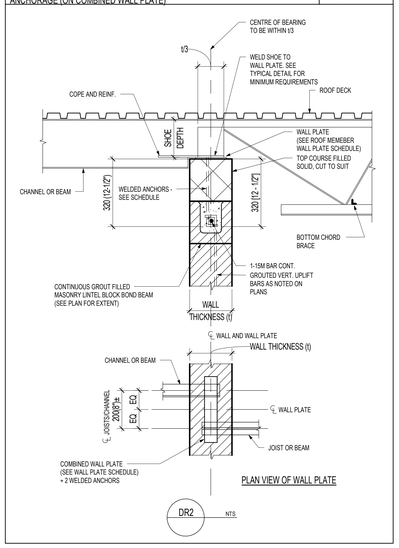


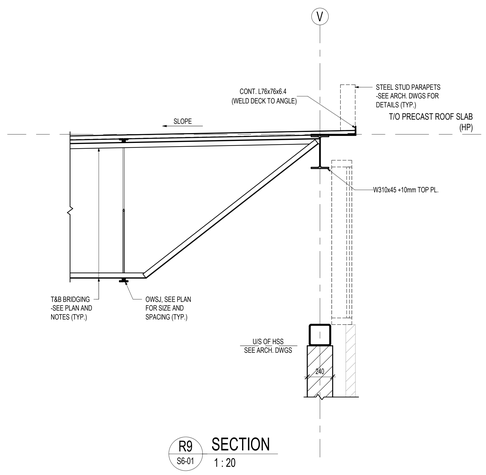
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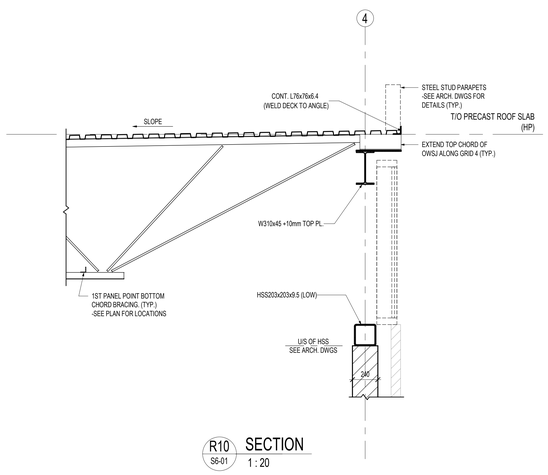
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JOIST BEARING ON MASONRY WALL FROM BOTH SIDES WITH UPLIFT ANCHORAGE (ON COMBINED WALL PLATE) — M17

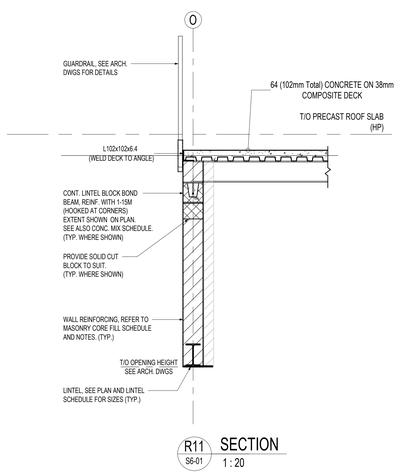




R9 S6-01 SECTION 1 : 20



R10 S6-01 SECTION 1 : 20



R11 S6-01 SECTION 1 : 20

TYPICAL ROOF MEMBER WALL PLATE SCHEDULE — M18

TYPICAL ROOF MEMBER WALL PLATE SCHEDULE (UNLESS OTHERWISE SHOWN)

LOCATION	TYPE	DESCRIPTION	SIZE	REMARKS
CORRIDOR AND OTHER INTERIOR WALLS	SINGLE	OWSJ CHANNEL BEAM	150x8x300 + 2-12 DIA. x 320+50 HOOK	SEE DR1/S7-01
	COMBINED	OWSJ/CHANNEL OWSJ/OWSJ OWSJ/BEAM BEAM/CHANNEL	150x10x460 + 2-20 DIA. x 320+50 HOOK	SEE DR2/S7-01
EXTERIOR WALL	SINGLE	OWSJ CHANNEL BEAM	150x8x300 + 2-12 DIA. x 320+50 HOOK	SEE DR1/S7-01
GP ROOM WALL	SINGLE	BEAM LSSJ	150x8x300 + 2-20 DIA. x 320+50 HOOK	SEE DR1/S7-01
	COMBINED	LSSJ/CHANNEL OR BEAM	150x10x460 + 2-20 DIA. x 320+50 HOOK U/N	SEE DR2/S7-01
ANGLED	SINGLE	OWSJ CHANNEL BEAM	150x8xVARIES + 2-12 DIA. x 320+50 HOOK	SEE DR3/S7-01

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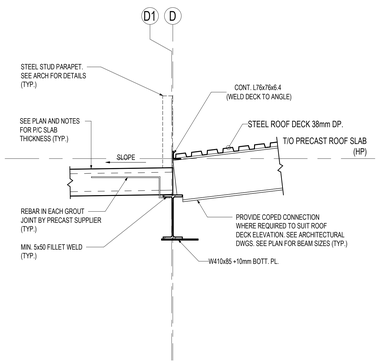
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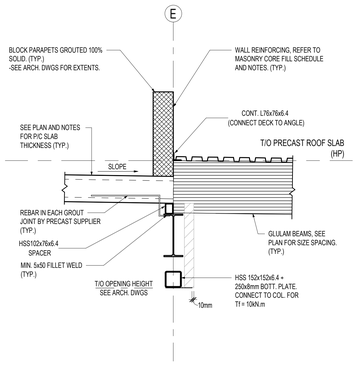
ROOF SECTIONS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

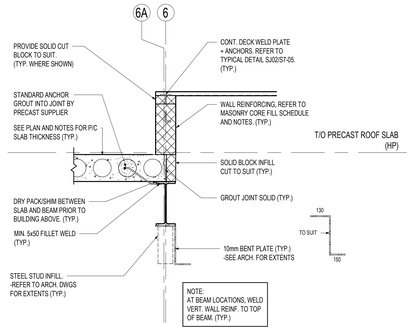
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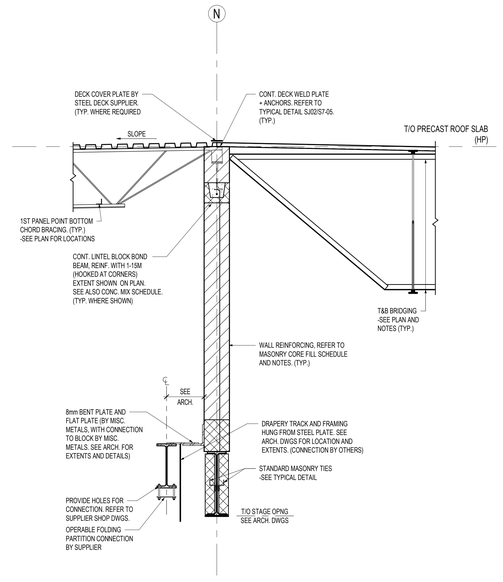
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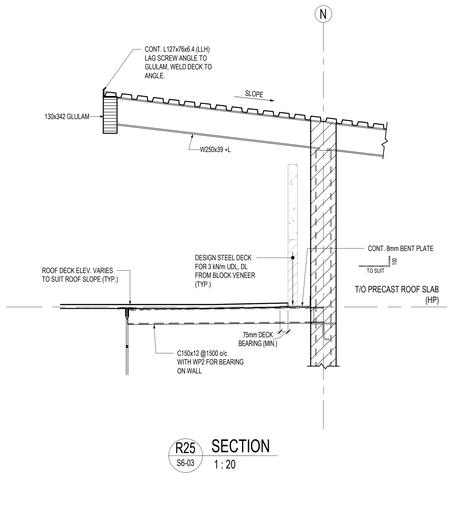
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R22 S6-03 SECTION 1 : 20



R23 S6-03 SECTION 1 : 20



R24 S6-03 SECTION 1 : 20

R25 S6-03 SECTION 1 : 20

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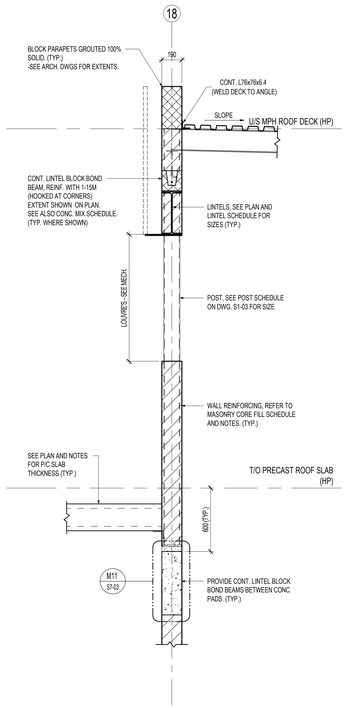
LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

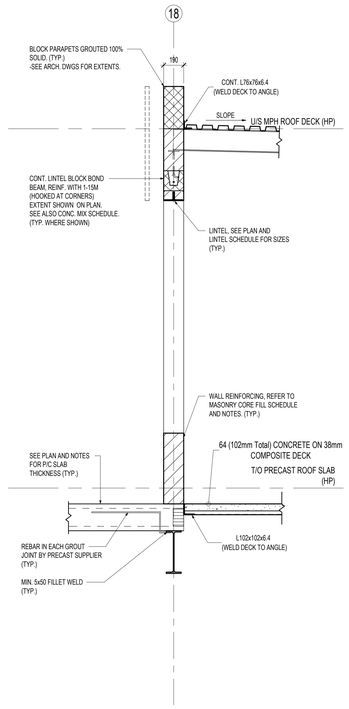
ROOF SECTIONS

Salas O'Brien
2235 Sheppard Ave. E.
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Toronto, ON M2J 5B5

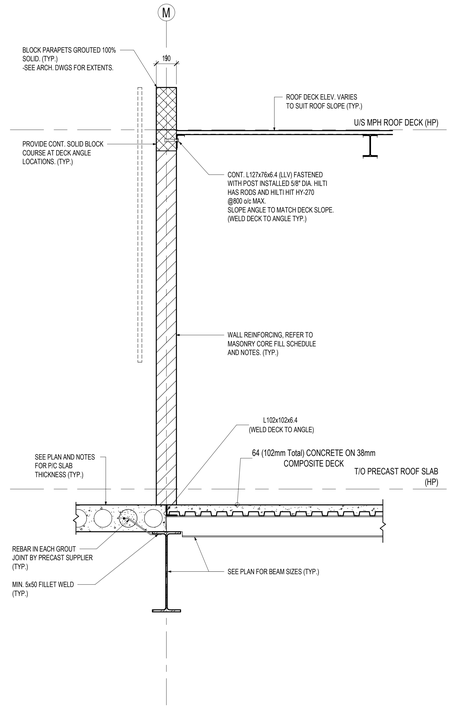
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DATE JUNE 2026	
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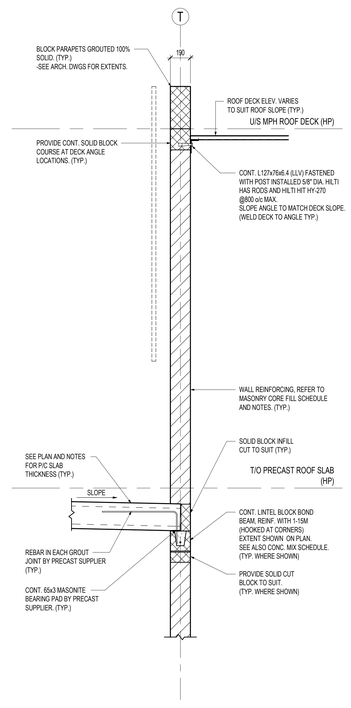
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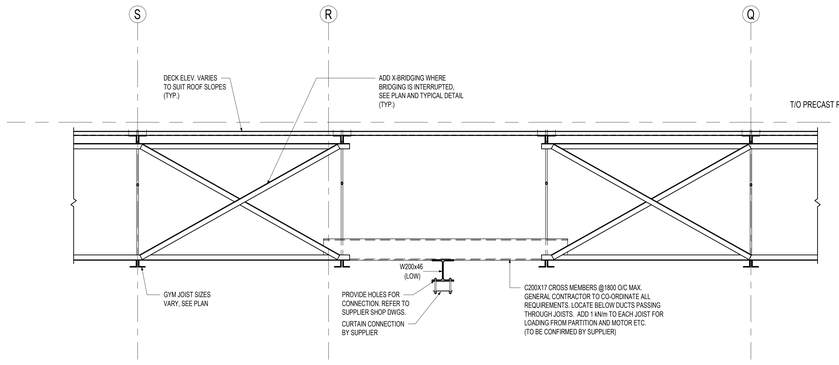
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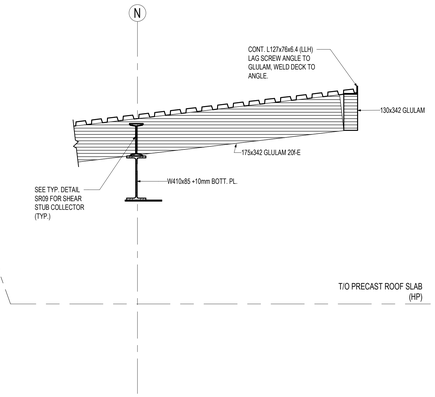
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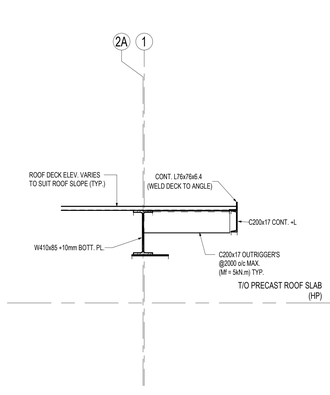
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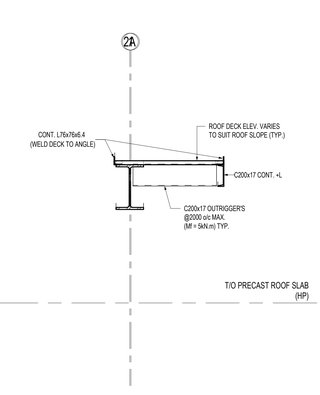
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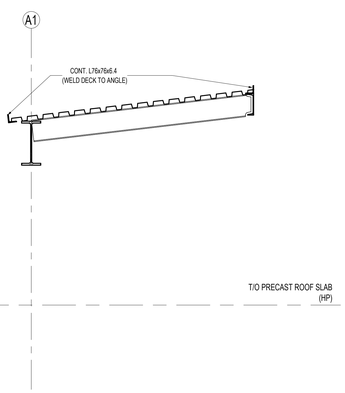
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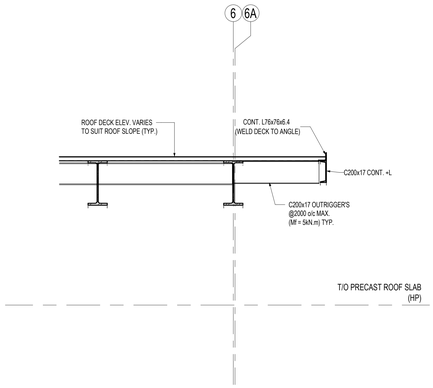
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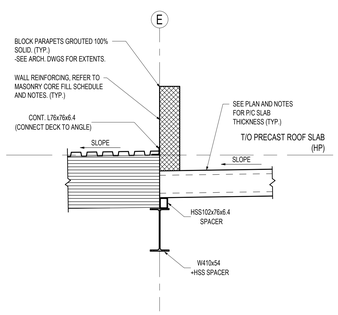
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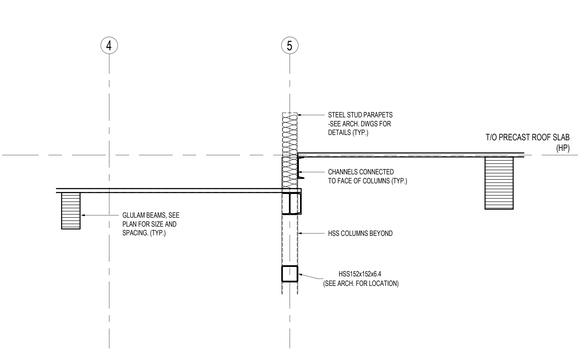
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R17 SECTION
S6-02 1 : 20



R18 SECTION
S6-02 1 : 20



R19 SECTION
S6-02 1 : 20

NO	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENSED PROFESSIONAL ENGINEER
25-06-08
J. C. GASDIA
100169574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD

ROOF SECTIONS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE 1 : 20	PROJECT 2549-01176
DATE JUNE 2026	
DRAWN AE	DRAWING S6-02
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STANDARD ABBREVIATIONS — A01

@ -At
ADJ -Adjustable
AIFB -Asphalt Impregnated Fibre Board
ALT -Alternate
ARCH -Architectural
A. ROD(A.R.) -Anchor Rod
ASL -Accumulated Snow Loading

B (BOT) -Bottom
BEW -Bottom Each Way
BLDG -Building
BLL -Bottom Lower Layer
BM -Beam
BML -Bottom Middle Layer
BNT -Base Nominal Thickness
B.O.F. -Bottom of Footing
BP -Baseplate
BSMT -Basement
BUL -Bottom Upper Layer

C -Standard Channel
CA -Column Above
CANT -Cantilever
C/C (o/c) -Centre to Centre
CJ -Control Joint
CL -Centreline
COL -Column
COMP -Compressible
CONC -Concrete
CONST -Construction
CONST JT (CJT) -Construction Joint
CONT (CONTIN) -Continuous
C/W -Complete With

D.FIR -Douglas Fir
DET -Detail
DIAG -Diagonal
Ø (DIA) -Diameter
DIM -Dimension
DJ -Double Joist
DL -Dead Load
DO -Ditto
DWG -Drawing
DWL -Dowel
DT -Double Tee

E-W -East-West
EA -Each
EE -Each End
EF -Each Face
ELECT -Electrical
ELEV (EL)-Elevation / Elevator
EQ -Equal
ES -Each Side
EW -Each Way
EXIST -Existing
EXP. JT. -Expansion Joint
EXT -Exterior

FDN -Foundation
FF -Far Face
FIN -Finished
FL -Floor
FMC -Full Moment Connection
FT -Foot / Feet
FTG -Footing

GA -Gauge
GALV -Galvanized
GEN -General

H (HOR) -Horizontal
HEF -Horizontal Each Face
HIF -Horizontal Inside Face
HOF -Horizontal Outside Face
HSC -Horizontally Slotted Connection
HSS -Hollow Structural Section

IF -Inside Face
INT -Interior
INV -Invert

JT -Joint

kg -Kilogram
kN.m -Kilo Newton Metres
kN/m² -Kilo Newton per Square Metre
kN/m -Kilo Newton per Metre
kPa -Kilo Pascals

L -Angle
LB. -Pounds
LG -Long
LL -Live Load / Lower Layer
LLH -Long Leg Horizontal
LLV -Long Leg Vertical
LSSJ -Long Span Steel Joists
LVL -Laminated Veneer Lumber

m -Metre
MAX -Maximum
MECH -Mechanical
MEZZ -Mezzanine
MIN -Minimum
MISC -Miscellaneous
ML -Middle Layer
MLL -Middle Lower Layer
mm -Millimetre
MOM, (M)-Moment
MPa -Mega Pascals
MUL -Middle Upper Layer

N -Newton
N-S -North-South
NF -Near Face
NIC -Not in Contract
No.(#) -Number
NTS -Not to Scale

OWSJ -Open Web Steel Joist

Pa -Pascal
PC -Precast
PL -Plate
PLF -Pounds per Lineal Foot
PREL -Preliminary
PROJ -Projection
PSF -Pounds per Square Foot
PSI -Pounds per Square Inch
PSL -Parallel Strand Lumber
PT -Pressure Treated

R -Reaction
RAD -Radius
REF -Reference
REINF -Reinforcing
REQ'D -Required
REV -Revision/Revised
Rf -Factored Vertical Reaction
R/W -Reinforced With

S -Standard Beam
SDF -Step Down Footing
SDL -Superimposed Dead Load
SECT -Section
SL -Slab
SQ -Square
SOG -Slab on Grade
S.P.F. -Spruce/Pine/Fir
SPEC -Specifications
ST -Steel
STD -Standard
STR -Straight
STRUCT -Structural

T -Top
TEMP -Temperature
Tf -Factored Tension Force
TJ -Tie Joist
TLL -Top Lower Layer
TMf -Factored Torsional Moment
TML -Top Middle Layer
TOD, T/D-Top of Deck
T.O.F. -Top of Footing
TOS, T/S-Top of Slab
TOST -Top of Steel
TSF -Tons per Square Foot
TUL -Top Upper Layer
TYP -Typical

UL -Upper Layer
U/N -Unless Noted
U.N.O. -Unless Noted Otherwise
U/S -Underside
USD -Underside of Deck

V (VERT)-Vertical
VBF -Vertically Braced Framing
VEF -Vertical Each Face
VIF -Vertical Inside Face
VOF -Vertical Outside Face
VSC -Vertically Slotted Connection

W -Wide Flange Beam
WP -Wall Plate
WWF -Welded WideFlange Beam
WWF (WWM) -Welded Wire Fabric/ Mesh

STANDARD LAP ABBREVIATIONS
CLS -Compression Lap Splice
CDL -Compression Development Length
HEL -Hook Embedment Length
TLS -Tension Lap Splice
TDL -Tension Development Length

GENERAL NOTES — A02

1. **GENERAL**
   1.1. DESIGN AND CONSTRUCTION IS TO CONFORM TO THE REQUIREMENTS OF THE 2024 ONTARIO BUILDING CODE, AND ANY APPLICABLE REQUIREMENTS OR BY-LAW OF THE AUTHORITY HAVING JURISDICTION. REFER ALSO TO TYPICAL DETAILS, NOTES UNDER PLANS AND SCHEDULES ON THE STRUCTURAL DRAWINGS, AND TO THE SPECIFICATION. ALL CODES, MANUALS, STANDARDS AND SPECIFICATIONS REFERRED TO SHALL BE THE SPECIFIC EDITION REFERENCED IN APPLICABLE BUILDING CODE INCLUDING ALL REVISIONS AND ADDENDA.
   ALL DIMENSIONS, OTHER THAN PURELY STRUCTURAL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE CHECKED AGAINST THE ARCHITECTURAL DRAWINGS AND ANY INCONSISTENCIES REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. STRUCTURAL DRAWINGS MUST NOT BE SCALED.
   1.2. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS, TRENCHES, PITS, SUMPS, EQUIPMENT, SLEEVES, DEPRESSIONS, GROOVES AND CHAMFERS NOT INDICATED ON THE STRUCTURAL DRAWINGS. UNLESS SPECIFICALLY NOTED OTHERWISE, THE ABOVE ITEMS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE INDICATED ONLY APPROXIMATELY AS TO SIZE AND LOCATION.
   1.3. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PROVISION HAS BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION. THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILTY FOR ALL SUCH MEASURES. IT SHALL ALSO BE THE RESPONSIBLITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET PILING OR OTHER TEMPORARY SUPPORTS OF SAFEGUARD ALL EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR CONSULTANTS REVIEW.
2. **SHOP DRAWINGS, PLACING DRAWINGS AND BAR LISTS**
   2.1. FOR ALL STRUCTURAL COMPONENTS SHOWN ON THE STRUCTURAL DRAWINGS, SUBMIT COPIES OF SHOP DRAWINGS AS DIRECTED FOR REVIEW BY THE STRUCTURAL CONSULTANT. SHOP DRAWINGS TO SHOW COMPLETE INFORMATION FOR THE FABRICATION AND ERECTION OF THE STRUCTURAL COMPONENTS.
   2.2. REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL CONSULTANT IS ONLY TO ASSESS THAT THE SUBMITTED SHOP DRAWINGS REFLECT THE INTENT OF THE STRUCTURAL DESIGN.
   2.3. REVIEW BY THE STRUCTURAL CONSULTANT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR SEEING THAT THE WORK IS COMPLETE, ACCURATE AND IN CONFORMITY WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
3. **INSPECTION AND TESTING**
   3.1. A SOILS CONSULTANT AND AN INDEPENDENT INSPECTION AND TESTING COMPANY ARE TO BE ENGAGED TO CARRY OUT THE FOLLOWING SERVICES
   3.1.1. BEARING SOIL - REFER TO NOTES ON STRUCTURAL DRAWINGS AND ALSO TO THE SOIL REPORT.
   3.1.2. FILL UNDER SLAB-ON-GRADE - CONFORM THAT FILL MATERIAL USED IS SATISFACTORY AND THAT THE REQUIRED DEGREE OF COMPACTION HAS BEEN ATTAINED.
   3.1.3. CAST-IN-PLACE AND PRECAST CONCRETE - ROUTINE INSPECTION OF MATERIALS, INCLUDING SLUMP, CYLINDER AND AIR ENTRAINMENT TESTS AND REINFORCING ROD TESTS WHEN REQUIRED OR DIRECTED IN ACCORDANCE WITH CSA STANDARD A23.2.
   3.1.4. THE PROJECT SUPERINTENDENT IS TO ADVISE THE STRUCTURAL CONSULTANT A MINIMUM OF 24 HOURS IN ADVANCE OF A CONCRETE POUR FOR A REVIEW OF PREPARATIONS.
   3.1.5. STRUCTURAL STEEL AND OWSJ - ROUTINE SHOP AND FIELD INSPECTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS CSA S16.
   3.1.6. STEEL DECK - SEE STEEL DECK NOTES.
   3.1.7. MASONRY - WHEN REQUIRED OR DIRECTED, CONCRETE BLOCKS SHALL BE TESTED IN ACCORDANCE WITH ASTM C140 BRICKS IN ACCORDANCE WITH CAN/CSA A82; AND MORTAR AND/OR GROUT IN ACCORDANCE WITH CSA A179.
   3.2. ALL INSPECTION AND TESTING SERVICES ARE TO BE PERFORMED BY COMPANIES CERTIFIED BY THE CANADIAN STANDARDS ASSOCIATION AND FOR WELDING, INSPECTORS ARE TO BE CERTIFIED BY THE CANADIAN WELDING BUREAU.
4. **FOUNDATIONS**
   4.1. REFER TO NOTES UNDER FOUNDATION PLANS. ALL EXTERIOR FOOTINGS OR OTHER FOOTINGS EXPOSED TO FREEZING IN THE FINISHED BUILDING SHALL BE FOUNDED AT A MINIMUM OF 1200mm (4'-0") BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. FOOTINGS EXPOSED TO FROST ACTION DURING CONSTRUCTION SHALL BE PROTECTED BY A MINIMUM OF 1200mm (4'-0") OF EARTH OR ITS EQUIVALENT SUFFICIENT TO PREVENT FREEZING.
   4.2. THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10, MAXIMUM STEP APPROX. 600mm (2'-0").
   4.3. PIER DEPTHS AND FOOTING ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THE STRUCTURAL DRAWINGS.
   4.4. IF ACTUAL JOB SITE OR SOIL CONDITIONS VARY FROM THOSE ASSUMED, THEN WRITTEN DIRECTIONS MUST BE OBTAINED FROM THE STRUCTURAL CONSULTANT BEFORE PROCEEDING WITH THE WORK.
   4.5. KEEP EXCAVATIONS CONTINUOUSLY DRY BEFORE CONCRETE IS PLACED. IF THE SOIL IS SOFTENED BY WATER, THE EXCAVATION SHALL BE EXTENDED BELOW THE SOFTENED MATERIAL AND THE BOTTOM OF THE FOOTINGS LOWERED TO SUIT.
5. **BACKFILLING AND COMPACTION**
   5.1. SLABS-ON-GRADE AND ALL STRUCTURAL ELEMENTS FRAMING INTO WALLS WHICH RETAIN EARTH MUST BE IN PLACE BEFORE BACKFILLING.
   5.2. AT FOUNDATION WALLS WITH GRADE BOTH SIDES, UNLESS ADEQUATELY SHORED, BACKFILL AND COMPACT EACH SIDE OF WALL SIMULTANEOUSLY.
   5.3. UNDER SLAB-ON-GRADE, REMOVE SOFT SPOTS, ORGANIC AND FOREIGN MATTER IN THE SUB-GRADE. (WHERE SUB-GRADE CONSISTS OF COMPACTED FILL, REFER TO SPECIFIC NOTES ON THE DRAWINGS).
   5.4. BACKFILL UNDER SLAB-ON-GRADE, IN FOOTING EXCAVATIONS AND IN TRENCHES ONLY WITH APPROVED MATERIAL. UNLESS SPECIFICALLY NOTED OTHERWISE, BACKFILLING SHALL BE CARRIED OUT IN MAXIMUM OF 200mm (8")THICK LIFTS OF LOOSE FILL EACH COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
   5.5. UNLESS OTHERWISE NOTED IN GEOTECHNICAL REPORT, PROVIDE IMMEDIATELY UNDER SLABS-ON-GRADE A MINIMUM OF 200mm (8") OF COMPACTED (MTC) GRANULAR 'B' MATERIAL. COMPACTION TO ACHIEVE A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.

CAST-IN-PLACE CONCRETE NOTES — A03.1

1. **GENERAL**
   1.1. PROVIDE ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO CARRY OUT THE WORK.
   1.2. REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND SCHEDULES, TYPICAL DETAILS AND SPECIFICATION.
2. **PRODUCTS**
   2.1. PORTLAND CEMENT, WATER AND AGGREGATES SHALL CONFORM TO CSA STANDARD A23.1.
   2.2. PROVIDE AN APPROVED WATER REDUCING ADDITIVE IN ALL CONCRETE. PROVIDE AN APPROVED AIR ENTRAINING ADDITIVE IN ALL CONCRETE WHICH WILL BE EXPOSED TO A FREEZE/THAW CYCLE AND/OR THE ACTION OF DE-ICING SALT. ADMIXTURES SHALL CONFORM TO CSA STANDARD A23.1.
   2.3. FORMWORK SHALL CONFORM TO CSA STANDARD A23.1 AND CSA STANDARD S269.1 AND FALSEWORK SHALL CONFORM TO CSA S269.1.
   2.4. IF SO INSTRUCTED, THE DESIGNS FOR THE FORMWORK SHALL BE SUBMITTED FOR REVIEW BEFORE CONSTRUCTION. FORMWORK DRAWINGS AND DESIGN SHALL BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER.
   2.5. PROVIDE SLAB AND BEAM FORMS WITH AN UPWARD CAMBER AS INDICATED ON PLANS THUS ⊕ mm: WHERE CAMBERS ARE NOT NOTED ON PLANS, CAMBER SLABS AND BEAMS FOR SPAN/500 AT INTERIOR BAYS, AND CANTILEVER LENGTH/250 AT CANTILEVER. CAMBER BOTH THE UNDERSIDE AND TOP OF CONCRETE IN A PARABOLIC PROFILE, WHILE MAINTAINING THE INDICATED STRUCTURAL THICKNESS OF MEMBERS.
   2.6. PROVIDE STANDARD ADJUSTABLE MASONRY ANCHOR SLOTS FOR ALL MASONRY FACING OR ABUTTING CONCRETE FACES.
   2.7. PROVIDE AND/OR INSTALL STANDARD ADJUSTABLE INSERTS AND ALL OTHER CAST-IN INSERTS AS REQUIRED BY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATION.
   2.8. REINFORCING STEEL UNLESS SPECIFICALLY NOTED, SHALL BE DEFORMED BARS CONFORMING TO CAN/CSA -G30.18-M GRADE 400 (58000 PSI).
   2.9. WELDED WIRE FABRIC TO BE SUPPLIED IN FLAT SHEETS ONLY, UNLESS APPROVED OTHERWISE.
   2.10. REINFORCING SHALL BE DETAILED, BENT, PLACED AND SUPPORTED TO CONFORM TO ACI DETAILING MANUAL AND THE MANUAL OF STANDARD PRACTICE PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF CANADA.
   2.11. DRY-PACK GROUT TO BE 1 PART PORTLAND CEMENT TO 1 1/2 PARTS SAND TO 2 PARTS OF 8 mm PEA GRAVEL WITH ONLY SUFFICIENT WATER TO DAMPEN MIXTURE. COMPRESSIVE STRENGTH 50MPa AT 28 DAYS.
   2.12. NON-SHRINK GROUT TO BE AN APPROVED PRE-MIXED PROPRIETARY PRODUCT.
   2.13. PROVIDE APPROVED EXTRUDED PVC WATERSTOPS OF SIZE AND STYLE INDICATED, WITH PRE-WELDED CORNERS AND INTERSECTIONS. SEE ALSO TYPICAL DETAILS.
   2.14. CURING AND SEALING COMPOUNDS WHERE APPROVED FOR USE TO CONFORM TO ASTM STANDARD C309. GENERALLY ALL CONCRETE SURFACES ARE TO BE SEALED UNLESS NOTED OTHERWISE. COMPOUNDS ARE TO BE COMPATIBLE WITH APPLIED FINISHES.
   2.15. SHEAR REINFORCEMENT AT SLAB CONNECTION AS SHOWN ON DRAWINGS AND DETAILS, SHALL BE STUDRAILS® AS MANUFACTURED BY DECON®. THE COMPLETE AND FINISHED STUDRAIL® SHALL BE ICC ES EVALUATED AND WELDING SHALL TAKE PLACE IN A ICC ES APPROVED AND AUDITED FACILITY. STUDRAILS® SHALL CONFORM TO THE LATEST UPDATE OF ASTM A1044.
3. **EXECUTION**
   3.1. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE @ 28 DAYS SHALL BE AS NOTED ON THE DRAWINGS (20MPa MINIMUM).
   3.2. SLUMP AT THE POINT OF DISCHARGE SHALL BE CONSISTENT AT 80 mm ±30mm (3" ±1 1/8") UNLESS NOTED OTHERWISE. GREATER SLUMPS ARE NOT ACCEPTABLE.
   3.3. CONCRETE MIXING, TRANSPORTATION, HANDLING AND PLACING SHALL CONFORM TO CSA STANDARD A23.1.
   3.4. CONSTRUCTION JOINTS FOR WALLS ARE BASED UPON VERTICAL JOINTS AT A MAXIMUM SPACING OF 9000mm (30'-0"). UNLESS CONTROL JOINTS ARE PROVIDED AS PER DETAIL CFW02. TOTAL LENGTH OF POUR TO BE DISCUSSED WITH ENGINEER PRIOR TO PROCEEDING.
   3.5. CONSTRUCTION JOINTS FOR WALLS, SLABS, AND BEAMS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE CONSTRUCTION. GENERALLY JOINTS IN SLABS SHALL BE AT RIGHT ANGLES TO THE SPANS, AT MID-SPAN IF POSSIBLE AND CLEAR OF SUPPORTS AND POINT LOADS.
   3.6. INSERTS, FRAME-OUTS, SLEEVES, BRACKETS, CONDUITS AND FASTENING DEVICES, SHALL BE INSTALLED AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS IN A MANNER THAT SHALL NOT IMPAIR THE STRUCTURAL STRENGTH OF THE SYSTEM, BE SO INSTALLED THAT THEY SHALL NOT REQUIRE THE CUTTING, BENDING, OR DISPLACEMENT OF THE REINFORCING OTHER THAN AS SHOWN ON THE TYPICAL DETAILS.
   3.7. ELECTRICAL CONDUIT SHALL NOT PASS THROUGH A COLUMN, SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 SLAB THICKNESS OR WALL OR BEAM IN WHICH IT IS EMBEDDED, SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTRE UNLESS APPROVED AND HAVE A MINIMUM CONCRETE COVER OF 25 mm (1") AND UNLESS SPECIFICALLY PERMITTED OTHERWISE, SHALL NOT RUN HORIZONTALLY IN A CONCRETE WALL.
   3.8. OPENINGS AND DRIVEN FASTENERS REQUIRED IN THE CONCRETE AFTER THE CONCRETE IS PLACED SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE PROCEEDING.
   3.9. FINISHING, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FINISH TO EXPOSED CONCRETE. ALL HONEYCOMBING SHALL BE CUT OUT AND FILLED. FLOOR FINISHES SHALL BE AS REQUIRED BY THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND SHALL CONFORM TO CSA STANDARD A23.1.
   3.10. TOLERANCES FOR PLACING STRUCTURAL CONCRETE, REINFORCING STEEL, CAST-IN HARDWARE AND FOR FLOOR AND ROOF FINISHES SHALL BE AS SPECIFIED IN CSA STANDARD A23.1.
   3.11. MINIMUM REINFORCING FOR ANY CONCRETE WALL TO BE AS SHOWN ON TYPICAL DETAIL FOR CONCRETE WALLS.
   3.12. MINIMUM REINFORCING FOR ANY SUSPENDED SLAB SHALL BE TEMPERATURE BARS BOTTOM EACH WAY PLUS 10M @ 400 (16") DOWELS 600x600 (2'-0" x 2'-0") TOP AROUND PERIMETER. REFER TO TYPICAL DETAIL OF ONE WAY SLABS.
   3.13. PERFORM SURVEYS OF SLABS AS INDICATED IN SPECIFICATIONS.

CAST-IN-PLACE CONCRETE NOTES — A03.2

3.14. MASS CONCRETE
(A) UNLESS EXPLICITLY CONFIRMED OTHERWISE BY THE CONSULTANT IN WRITING, THE CONTRACTOR SHALL PREPARE A PLAN TO MONITOR AND CONTROL THE HEAT OF HYDRATION FOR ALL MASS CONCRETE POURS IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1 ARTICLES 7.5.3, 8.5.5 AND TABLES 14 AND 20. REFER ALSO TO SPECIFICATION SECTIONS 03 30 00 AND 01 45 23.07. EACH PLAN SHALL ADDRESS AT A MINIMUM THE FOLLOWING:
(B) ENSURE MAXIMUM HEAT OF HYDRATION DOES NOT EXCEED 70°C.
(C) ENSURE MAXIMUM THERMAL GRADIENT WITHIN THE POUR DOES NOT EXCEED THE REQUIREMENTS OF TABLE 20, OR 20°C, WHICHEVER IS LESS.
(D) DEVELOP A TEMPERATURE MONITORING PLAN IN ACCORDANCE WITH SPECIFICATION SECTION 01 45 23.07 TO TRACK HEAT OF HYDRATION WITHIN THE MASS CONCRETE POUR TO PROVE COMPLIANCE WITH THE FOREGOING.
(E) IDENTIFY MODIFICATIONS TO STANDARD MIX DESIGNS SUITABLE TO REDUCE AND/OR LIMIT ANTICIPATED HEAT OF HYDRATION OF CONCRETE, INCLUDING MAXIMUM DELIVERY TEMPERATURE OUTLINED IN A23.1 TABLE 14.
(F) THE CONCRETE SUPPLIER SHALL PROVIDE ANTICIPATED HEAT OF HYDRATION CURVES FOR EACH PROPOSED MIX DEMONSTRATING COMPLIANCE WITH THE ABOVE.
(G) IF NO HEAT OF HYDRATION CURVES ARE AVAILABLE, A TEST CUBE SHALL BE CAST TO COLLECT SAMPLE DATA OF SUFFICIENT QUALITY TO PREDICT MAXIMUM ANTICIPATED HEAT OF HYDRATION.
(H) IF REQUIRED BY THE PLAN OUTLINED ABOVE, DEVELOP A SUPPLEMENTARY COOLING SYSTEM CAPBALE OF REJECTING HEAT FROM THE CENTRE OF THE MASS CONCRETE POUR. SPECIFICS OF THE HEAT REJECTION SYSTEM TO BE ESTABLISHED BY A LICENSED PROFESSIONAL ENGINEER BASED UPON ANTICIPATED HEAT OF HYDRATION VALUES PROVIDED BY THE CONCRETE SUPPLIER OR TEST DATA. ALL COSTS OF SUCH A SYSTEM, INCLUDING DESIGN PROFESSIONALS, SHALL BE CARRIED BY THE SUBTRADE.

3.15. GENERAL REQUIREMENTS FOR CUTTING AND DRILLING INTO CONCRETE
(A) DO NOT DRILL INTO, CORE THROUGH, SAW-CUT OR CHIP THE CONCRETE STRUCTURE WITHOUT WRITTEN AUTHORIZATION BY THE STRUCTURAL CONSULTANT.
(B) UNLESS NOTED OTHERWISE, PRIOR TO CUTTING, CORING OR DRILLING INTO THE CONCRETE STRUCTURE, LOCATE EXISTING CONCRETE REINFORCEMENT AND EMBEDDED SERVICES AT THAT LOCATION USING SUITABLE SCANNING DEVICE (I.E. X-RAYS, GROUND PENETRATION RADAR (GPR), LOCAL CHIPPING OF SLAB - ONLY WHERE APPROVED BY THE STRUCTURAL CONSULTANT, ETC), AS AUTHORIZED BY PROPERTY MANAGER IF APPLICABLE
(C) GPR SCANNING MUST BE DONE BY TRAINED TECHNICIANS WITH AT LEAST 5 YEARS OF EXPERIENCE AS SUCH.
(D) GPR SCANNING DEVICES MUST BE CAPABLE OF ACCURATELY LOCATING REBAR IN A CONCRETE SLAB TO A MINIMUM DEPTH OF 300 mm, THIN A HORIZONTAL TOLERANCE OF +- 25 mm AND A VERTICAL (DEPTH) TOLERANCE OF THE LARGER OF +-25 mm OR +- 15% OF THE REBAR DEPTH.
(E) AFTER ALL THE EXISTING REINFORCEMENT AND SERVICES HAVE BEEN LOCATED, NOTIFY THE STRUCTURAL CONSULTANT, WHO WILL REVIEW AND APPROVE THE PROPOSED LOCATION OF OPENINGS, CORES OR DRILLED HOLES. MAKE ANY NECESSARY ADJUSTMENTS TO THE HOLE LOCATIONS AS DIRECTED BY THE STRUCTURAL CONSULTANT.
(F) THE REVIEW BY THE STRUCTURAL CONSULTANT IS LIMITED ONLY TO THE LOCATION OF THE PROPOSED CORES OR DRILLED HOLES THROUGH THE EXISTING STRUCTURE AND IT IS BASED ON THE ASSUMPTION THAT THE X-RAY OR SCAN RESULTS LOCATING SLAB REINFORCEMENT AND EMBEDDED SERVICES ARE COMPLETE AND ACCURATE. STEPHENSON ENGINEERING LTD. TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE X-RAY OR SCAN RESULTS.
(G) CORE DRILL NEW HOLES FOR PIPES TO A DIAMETER NOT LARGER THAN THE OUTSIDE PIPE DIAMETER PLUS 25MM. DO NOT CUT EXISTING REINFORCEMENT OR SERVICES WITHOUT PRIOR APPROVAL OF THE CONSULTANT.
(H) WHERE RECTANGULAR OPENINGS ARE TO BE CUT, PRE-DRILL THE CORNERS USING A 100 MM DIAMETER CORE DRILL OR DRILL A SERIES OF HOLES TO PREVENT OVER CUTTING OF THE CORNERS.

4. QUALITY CONTROL
4.1 FOR INSPECTION AND TESTING, SEE GENERAL NOTES AND/OR SPECIFICATION.

STRUCTURAL STEEL AND STEEL JOIST NOTES — A04

1. GENERAL
   1.1. STRUCTURAL STEEL AND JOIST DESIGN DETAILS AND CONNECTIONS SHALL CONFORM TO CSA STANDARD S16 AND SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER EXPERIENCED IN THIS TYPE OF WORK.
   1.2. REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND TO THE SPECIFICATION.
   1.3. WELDING SHALL CONFORM TO CSA STANDARD W59 AND BE PERFORMED BY A FABRICATOR CERTIFIED TO CSA W47.1.
   1.4. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF FACTORED VERTICAL SHEAR FORCE OF 50% OF THE BEAM SHEAR CAPACITY. UNLESS OTHERWISE NOTED, AND IN NO CASE BE LESS THAN THE LOADS SHOWN ON OR IMPLIED BY THE DRAWINGS. WHERE BOLTED CONNECTIONS ARE UTILIZED, A MINIMUM OF TWO BOLTS PER CONNECTION SHALL BE USED.
   1.5. MEMBER CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER FOR FORCES AND MOMENTS INDICATED. SHOP DRAWINGS AND CALCULATIONS BEARING THE STAMP AND SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION.
2. PRODUCTS
   2.1. STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA-G40.20/G40.21 (UNLESS NOTED OTHERWISE ON PLANS OR SECTIONS).
   2.1.1. S SHAPES, PLATES AND RODS: - GRADE 300 W
   2.1.2. HSS SECTIONS: - GRADE 350W (CLASS C U/N)
   2.1.3. WWF SHAPES, W SHAPES, WT SHAPES, CHANNELS, ANGLES: - GRADE 350W
   2.2. JOIST CHORDS AND WEBS SHALL CONFORM TO CSA - S16.
   2.3. BOLTS FOR CONNECTIONS TO CONFORM TO ASTM F3125/3125M, GRADE A325 UNLESS NOTED.
   2.4. ANCHOR RODS FOR BASE PLATES, BEARING PLATES AND WELD PLATES TO CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED.
   2.5. NUTS AND WASHERS TO CONFORM TO ASTM A563 AND ASTM F436.
   2.6. SHEAR STUDS WHERE REQUIRED TO CONFORM TO ASTM A108, WELDING TO CONFORM TO CSA W59.
   2.7. WELDING MATERIALS TO CONFORM TO CSA W48.
   2.8. SURFACE PREPARATION AND PRIMER PAINT FOR STRUCTURAL STEEL MEMBERS AND JOISTS INSIDE VAPOUR BARRIER TO CONFORM TO CISC/CPMA 1.73a OR CISC/CPMA 2.75 (IF EXPOSED TO VIEW), UNLESS NOTED ON DRAWINGS OR SPECIFICATIONS.
   2.9. HOT DIP GALVANIZING SHALL PROVIDE A MINIMUM ZINC COATING OF 600g/sq.m UNLESS OTHERWISE SPECIFIED.
   2.11. BRIDGING AND BRACING FOR JOISTS BY JOIST DESIGNER: - SEE DRAWINGS AND TYPICAL DETAILS FOR MINIMUM REQUIREMENTS.
3. EXECUTION
   3.1. FABRICATION, HANDLING AND ERECTION SHALL CONFORM TO CAN/ CSA - S16.
   3.2. TOLERANCES: VARIATION FROM PLUMB AND LEVELNESS OF STRUCTURAL FRAMING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND TYPICAL DETAILS.
   3.5. FIELD " TOUCH-UP " BOLTS, WELDS, BURNED OR SCRAPED SURFACES AFTER ERECTION.
   3.6. NO HOLES OTHER THAN THOSE SHOWN ON REVIEWED SHOP DRAWINGS SHALL BE MADE IN ANY STEEL MEMBER WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL CONSULTANT.
   3.7. CO-ORDINATE WITH MECHANICAL AND ELECTRICAL CONSULTANTS AND SUB-TRADES WHOSE WORK MAY EFFECT DETAILING, FABRICATION AND ERECTION OF THE STEEL STRUCTURE.
   3.8. WHEREVER ITEMS ARE TO BE HUNG FROM JOISTS, CONNECT TO THE TOP CHORDS AT PANEL POINTS, UNLESS OTHERWISE PERMITTED.
   3.9. PROVIDE L76X76X6.4(MIN) ANGLE SEATS FOR ALL STEEL DECK AT LOCATIONS WHERE THE CONNECTION TO SUPPORTING FRAMING IS INTERRUPTED. (EG. AT COLUMNS)
   3.10. PROVIDE ALL NECESSARY TEMPORARY BRACING TO KEEP STRUCTURE SAFE AND PLUMB. BRACING SHOWN ON STRUCTURAL DRAWINGS IS PERMANENT FOR FINISHED BUILDING ONLY.
   3.11. PROVIDE A MINIMUM OF 2-12 mm (1/2") DIAMETER BY 250 (10") LONG WALL ANCHORS FOR ALL BEAM AND JOIST BEARING PLATES ON MASONRY, OR AN APPROVED EQUAL, UNLESS OTHERWISE NOTED. BEAMS AND JOIST SHOES TO BE WELDED TO BEARING PLATES.
   3.12. PROVIDE ADJUSTABLE ANCHORS TO ALL STEEL TO BE BUILT INTO, ABUTTED BY, OR FACED WITH MASONRY (REFER ALSO TO TYPICAL DETAILS
   FOR VERTICAL SPACING .... 600 (24") MAX. CENTRES.
   FOR HORIZONTAL SPACING .... 10 TIMES WALL THICKNESS* (MAX. 2000 (6'-8") CENTRES)
   (* NOTE, USE BACK-UP WYTHE THICKNESS ONLY, FOR CAVITY WALLS.)
   3.13. WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY (I.E. DOES NOT SUPPORT MASONRY) ANCHORS SHALL PERMIT DIFFERENTIAL VERTICAL MOVEMENT BETWEEN STRUCTURAL MEMBERS AND MASONRY.
4. QUALITY CONTROL
   4.1. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES, AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
   4.2 SEE SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS.

STEEL DECK NOTES — A05

1. GENERAL
   1.1. DESIGN, FABRICATION, HANDLING AND ERECTION SHALL CONFORM TO THE FOLLOWING STANDARDS:
   1.1.a. CSA-S136
   1.1.b. CSSBI 10M .... STANDARD FOR STEEL ROOF DECK.
   1.1.c. CSSBI 12M .... STANDARD FOR COMPOSITE STEEL DECK.
   1.1.d. ASTM A653 .... SPECIFICATIONS FOR STEEL SHEET, ZINC COATED (GALVANIZED) OR ZINC-IRON ALLOY COATED (GALVANNEALED) BY THE HOT DIP PROCESS.
   1.1.e. WELDING SHALL CONFORM TO CSA STANDARD W59 AND BE PERFORMED BY A FABRICATOR CERTIFIED TO CSA STANDARD W47.1.
   1.2. THE STEEL DECK SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. SHOP DRAWINGS AND CALCULATIONS BEARING THE STAMP AND SIGNATURE OF THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND ERECTION.
   1.3. NO HANGERS OR BRACKETS SHALL BE HUNG DIRECTLY FROM THE FLOOR OR ROOF DECK. ALL POINT LOADS MUST BE APPLIED DIRECTLY TO STRUCTURAL STEEL FRAMING UNLESS OTHERWISE SHOWN OR APPROVED BY THE STRUCTURAL CONSULTANT.
   1.4 WHEREVER STRUCTURAL FRAMING PERMITS, STEEL DECK SHALL BE DESIGNED AND FABRICATED TO SPAN CONTINUOUSLY OVER AT LEAST 4 SUPPORTS (3 SPANS). PROVIDE AN ADEQUATE INCREASE IN THICKNESS OF METAL TO COMPENSATE FOR CONTINUITY WHEREVER FEWER SUPPORTS MAY OCCUR. END LAPS TO BE 50mm (2") MIN. AND BE LOCATED OVER SUPPORTS.
   1.5. ROOF DECK SHALL BE FORMED WITH INTEGRAL RIBS IN ORDER TO SAFELY SUPPORT THE LOADS GIVEN ON THE DRAWINGS OVER THE SPANS REQUIRED. DECK THICKNESS GIVEN ON DRAWINGS IS MINIMUM ASSUMED ALLOWABLE THICKNESS AND MUST BE DESIGNED BY THE DECK SUPPLIER.
   1.5.a. DEFLECTION OF ROOF DECK UNDER LIVE OR SNOW LOAD ONLY SHALL NOT EXCEED 1/300TH OF SPAN.
   1.6. FLOOR DECK SHALL BE FORMED WITH INTEGRAL RIBS AND EMBOSSMENTS FOR COMPOSITE ACTION WITH CONCRETE SLAB IN ORDER TO SAFELY SUPPORT THE LOADS GIVEN ON THE DRAWINGS OVER THE SPANS REQUIRED. IN ADDITION, THE DECK SHALL SAFELY SUPPORT ALL CONSTRUCTION LOADS WITH NO SHORING UNTIL CONCRETE IS SET. DECK THICKNESS GIVEN ON DRAWINGS IS MINIMUM ALLOWED.
   1.6.a. DEFLECTION OF COMPOSITE FLOOR UNDER LIVE LOAD ONLY SHALL NOT EXCEED 1/360TH OF SPAN.
   1.7. DESIGN AND DETAIL ON SHOP DRAWINGS ALL CONNECTIONS TO SUPPORTING MEMBERS FOR ALL COMBINATIONS OF DIAPHRAGM SHEAR AND UPLIFT FORCES ACTING ON THE ROOF DECK.
2. PRODUCTS
   2.1. UNLESS OTHERWISE NOTED ROOF DECK AND / OR COMPOSITE DECK SHALL BE FORMED OF METALLIC COATED SHEET STEEL CONFORMING TO ASTM A653/ A653M, STRUCTURAL QUALITY GRADE ' 275' WITH A ZF75 ZINC COATING, (GALVANNEAL).
   2.2. UNLESS OTHERWISE NOTED DECK SHALL BE SINGLE FLUTED ELEMENT WITH INTEGRAL RIBS OF DEPTH AND MIN. BASE NOMINAL THICKNESS (BNT) AS NOTED ON THE DRAWINGS. DECK SHALL HAVE INTERLOCKING SIDE JOINTS BETWEEN PANELS. (MIN.. BNT. 0.76mm (0.30")).
   2.3. COVER PLATES, CELL CLOSURES, FLASHINGS AND REINFORCING STIFFENERS FOR UNSUPPORTED EDGES TO BE SUPPLIED OF SIMILAR MATERIAL AND ZINC COATING TO THAT FOR DECK, UNLESS NOTED.
   2.4. PRIMER PAINT TO BE ZINC RICH, READY MIX TO CAN/ CGSB-1.181 FOR FIELD "TOUCH-UP" OF WELD BURNS AFTER DECK IS INSTALLED.
   2.5. UNLESS OTHERWISE SHOWN FOR OPENINGS THROUGH ROOF DECK FROM 150mm TO 450mm (6" TO 18") ACROSS THE FLUTES THE DECK SUPPLIER SHALL PROVIDE NOT LESS THAN A 51x51X6.4 ANGLE (2"x2"x 1/4 L). REINFORCEMENT TO FRAME ACROSS EACH SIDE OF THE OPENING PERPENDICULAR TO THE FLUTES, WELDED TO AT LEAST TWO FLUTES EACH SIDE OF THE OPENING.
   2.6. FOR ROOF OPENINGS OVER 450mm (18") ACROSS THE FLUTES AND FOR AREAS OF CONCENTRATED LOAD, REINFORCE IN ACCORDANCE WITH STRUCTURAL FRAMING DETAILS SHOWN ON PLANS OR TYPICAL DETAILS.
3. EXECUTION
   3.1. SUPPLY AND PLACE STEEL PACKING AS REQUIRED TO PRODUCE AN EVEN BEARING PRESSURE AT SUPPORTS.
   3.2. FOR STEEL ROOF DECK, UNLESS OTHERWISE DETERMINED DURING THE DIAPHRAGM AND UPLIFT CONNECTION DESIGN OR SPECIFIED OTHERWISE IN THE SPECIFICATIONS OR ENGINEERING DRAWINGS, THE MINIMUM ATTACHMENT OF THE DECK TO THE BEARING SURFACES AND THE MINIMUM SIDE LAP CONNECTIONS BETWEEN DECK UNITS SHALL BE:
   3.2.A. FOR 38mm DEEP DECK PROFILES, CONNECT THE FIRST, THIRD, FIFTH AND SEVENTH LOW CORRUGATIONS (36/4 CONFIGURATION), AND EACH SUPPORT PARALLEL TO FLUTE DIRECTION AT 300mm [12"] MAXIMUM CENTERS. CONNECTIONS SHALL BE MADE USING EITHER AN ARC SPOT WELD WITH 20mm [3/4"] NOMINAL TOP DIAMETER, OR MECHANICALLY FASTENED USING HILTI POWDER ACTUATED FASTENERS (X-HSN24, HILTI X-ENP19, OR EQUIVALENT).
   3.2.B. FOR 76mm DEEP DECK PROFILES, CONNECT THE FIRST, THIRD AND FIFTH LOW CORRUGATIONS (24/3 CONFIGURATION), AND EACH SUPPORT PARALLEL TO FLUTE DIRECTION AT 300mm [12"] MAXIMUM CENTERS. CONNECTIONS SHALL BE MADE USING EITHER AN ARC SPOT WELD WITH 20mm [3/4"] NOMINAL TOP DIAMETER, OR MECHANICALLY FASTENED USING HILTI POWDER ACTUATED FASTENERS (X-HSN24, HILTI X-ENP19, OR EQUIVALENT).
   3.2.C. FOR ROOF DECKS, SIDE LAPS OF ADJACENT NESTABLE UNITS SHALL BE CRIMPED TOGETHER AT 900mm [36"] CENTRES, OR FASTENED WITH HILTI M HWH SCREWS (SLC01, SLC02, OR EQUIVALENT).
   3.3. FOR STEEL FLOOR DECK, UNLESS OTHERWISE DETERMINED DURING THE DIAPHRAGM CONNECTION DESIGN OR SPECIFIED OTHERWISE IN THE SPECIFICATIONS OR ENGINEERING DRAWINGS, THE MINIMUM ATTACHMENT OF THE DECK TO THE BEARING SURFACES AND THE MINIMUM SIDE LAP CONNECTIONS BETWEEN DECK UNITS SHALL BE:
   3.3.A. SIDE LAPS OF ADJACENT FLOOR UNITS SHALL BE CRIMPED TOGETHER AT 600mm [24"] MAXIMUM ON CENTRE, BUT NOT EXCEEDING THE SPACING REQUIRED FOR THE APPLICABLE ULC FIRE RATED ASSEMBLY.
   3.3.B. DECK SUPPORTS PARALLEL AND PERPENDICULAR TO FLUTES SHALL BE WELDED WITH 20mm [3/4"] WELDS AT 300mm [12"] MAXIMUM SPACING, BUT NOT EXCEEDING THE SPACING REQUIRED FOR THE APPLICABLE ULC FIRE RATED ASSEMBLY.
   3.3.C. THE REQUIRED PUDDLE WELDS AT SUPPORTS MAY BE SUBSTITUTED WITH POWDER ACTUATED FASTENERS THAT PROVIDE EQUIVALENT DIAPHRAGM SHEAR CAPACITY PER METRE.
   3.4. INSTALL ALL POWDER ACTUATED AND SCREW FASTENERS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
   3.5. WELD STUD SHEAR CONNECTORS THROUGH DECK WHERE REQUIRED BY DRAWINGS.
   3.6. "TOUCH-UP" GALVANIZED OR GALVANNEALED SURFACES WITH SPECIFIED PRIMER AT WELDS AND SCRAPES, ETC., BOTH UPPER AND LOWER SURFACES.
   3.7. DO NOT SUSPEND CEILING OR MECHANICAL/ELECTRICAL SERVICES FROM U/S OF STEEL DECK.
4. QUALITY CONTROL
   4.1. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO BE ENGAGED TO CARRY OUT AND REPORT ON THE FOLLOWING INSPECTION SERVICES:
   4.1.a. SECTION PROFILE, GAUGE AND STEEL GRADE.
   4.1.b. ZINC COATING.
   4.1.c. WELDED JOINTS.
   4.1.d. BEARINGS.
   4.1.e. SIDE LAP CONNECTIONS.
   4.1.f. TOUCH-UP PRIMER.
   4.1.g. FIELD CUTTING AND/OR ALTERATIONS.
   4.2. REFER ALSO TO THE GENERAL NOTES, SPECIFICATIONS, AND TERMS OF REFERENCE FOR ADDITIONAL INFORMATION.

LOAD BEARING MASONRY NOTES — A06

1. **GENERAL**
   1.1. UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS, THE FOLLOWING INDICATES THE MINIMUM REQUIREMENTS APPLICABLE TO STRUCTURAL LOAD BEARING MASONRY.
   1.2. REFER ALSO TO ARCHITECTURAL DRAWINGS AND / OR THE SPECIFICATION FOR REQUIREMENTS OTHER THAN STRUCTURAL, AND FOR NON-LOAD BEARING WALLS AND PARTITIONS.
   1.3. MASONRY CONSTRUCTION TO CONFORM TO CSA STANDARD A371 AND S304.
2. **PRODUCTS**
   2.1. CONCRETE BLOCKS TO BE MODULAR UNITS AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND /OR SPECIFICATION, AND UNLESS ` OTHERWISE NOTED SHALL BE:
   2.1.1. FOR BELOW GRADE AND EXTERIOR EXPOSED WALLS USE NORMAL WEIGHT LOAD BEARING UNITS:
   STANDARD HOLLOW: ....TYPE H / 15 / A / M.
   75% SOLID: ....TYPE S / 15 / A / M.
   100% SOLID: ....TYPE S / 15 / A / M.
   2.1.2. FOR INTERIOR ABOVE GRADE WALLS USE EITHER:
   2.1.2.1. LIGHTWEIGHT LOAD BEARING BLOCKS:
   STANDARD HOLLOW: ......TYPE H / 15 / C / M.
   75% AND 100% SOLID: ......TYPE S / 15 / C / M.
   2.1.2.2. ULTRA LIGHT (OR EQUIVELANT) BLOCKS:
   STANDARD HOLLOW: ....TYPE H / 15 / D / M.
   (REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR LOCATIONS AND TYPES).
   2.1.3. F'm SHALL BE AS DEFINED ABOVE AND SHALL CONFORM TO CSA S304 TABLE 4. Ft SHALL CONFORM TO CSA S304 TABLE 5
   2.2. CLAY BRICKS:
   TO CONFORM TO OCSA STANDARD A82 SEE ARCHITECTURAL DRAWINGS AND / OR SPECIFICATIONS FOR TYPES AND STYLES OF BRICKS REQUIRED. UNLESS OTHERWISE NOTED, THE MINIMUM COMPRESSIVE STRENGTH (BRICK FLATWISE) GROSS AREA SHALL BE 20 MPa.
   2.3. MORTAR:
   TO CONFORM TO CSA A179
   FOR LAYING ALL LOAD BEARING CONCRETE BLOCKS ....USE TYPE "S" MORTAR UNLESS NOTED. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 8.5 MPa.
   FOR LAYING ALL CLAY BRICKS ....USE TYPE "N" MORTAR UNLESS NOTED. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3.5 MPa.
   2.4. MASONRY GROUT:
   TO CONFORM TO CSA A179. THE SLUMP SHALL CONFORM TO THE NOTES ON TABLE 7 OF THE STANDARD AND THE MINIMUM 28 DAY COMPRESSIVE STRENGTH FOR "FINE" GROUT SHALL BE 10MPa.
   2.5. MASONRY CONNECTORS (ANCHORS, FASTENERS AND TIES):
   SHALL CONFORM TO CSA A370, AND BE INSTALLED TO COMPLY WITH CSA A371.
   SPACING, STRENGTH AND GALVANIZING OF STRIP TIES, DOVETAIL ANCHORS, BAR ANCHORS, ROD ANCHORS, STRAP ANCHORS, WALL AND PARTITION ANCHORS SHALL COMPLY WITH CSA A370.
   2.6. HORIZONTAL JOINT REINFORCEMENT FOR ALL MASONRY WALLS:
   THE FOLLOWING ARE MINIMUM REQUIREMENTS:
   2.6.1. CONFORM TO CSA STANDARDS A370 AND A371.
   2.6.2. REINFORCEMENT SHALL BE AN APPROVED CONTINUOUS "LADDER" TYPE, PREFABRICATED WITH 3.66mm DIAMETER (9 GAUGE) LONGITUDINAL AND CROSS WIRES.
   2.6.3. SPACING:- PROVIDE REINFORCING IN THE TOP COURSE IMMEDIATELY BELOW FLOOR AND ROOF BEARING LEVELS AND THE FIRST TWO COURSES ABOVE AND BELOW EVERY WALL OPENING.THE REINFORCING SHALL EXTEND 600mm (24") BEYOND SUCH OPENINGS. FOR THE REMAINDER OF WALLS, THE VERTICAL SPACING SHALL NOT EXCEED 400mm (16").
   2.6.4. OVERLAP SPLICES:
   SHALL BE A MIN. OF 150mm (6") FOR KNURLED WIRE AND 300mm (12") FOR PLAIN WIRE.
   LAPS SHALL BE STAGGERED A MINIMUM OF 750mm (30") FROM COURSE TO COURSE.
   REINFORCING SHALL NOT PASS THROUGH A VERTICAL CONTROL JOINT UNLESS OTHERWISE SHOWN.
   2.6.5. CORROSION RESISTANCE:
   JOINT REINFORCING FOR ALL WALLS IN CONTACT WITH SOIL, EXTERIOR WALLS AND WALLS IN A MOIST ENVIRONMENT SHALL HAVE AT LEAST LEVEL 2 CORROSION PROTECTION AS DEFINED IN CSA STANDARD A370.
   2.6.6. COMPOSITE AND CAVITY WALLS:
   WHERE COURSING OF WYTHES DO NOT ALIGN OF WHERE IT IS DESIRABLE AND PERMITTED TO BUILD ONE WYTHE BEFORE THE OTHER, REINFORCING SHALL BE AN APPROVED ADJUSTABLE TYPE WITH A BOX OR EYE SECTION WHICH EXTENDS INTO THE COLLAR JOINT OR CAVITY AND RESTRAINS THE TRANSVERSE MOVEMENT OF THE TWO WYTHES. FOR CAVITY WALLS WITH RIGID INSULATION, EXTENSION SHALL BE DESIGNED TO HOLD THE INSULATION IN PLACE BY USE OF PLASTIC WEDGES OR APPROVED EQUAL. GALVANIZED HOOK STYLE "BOX TIES" OR "PIN-TIES" SHALL EXTEND INTO THE FACE WYTHE TO COMPLETE THE ASSEMBLY.
   2.6.7. PROVIDE ALL PREFABRICATED CORNER AND TEE SECTIONS.

LOAD BEARING MASONRY NOTES — A06

2.7. COMPOSITE WALLS:- SHALL HAVE THE VERTICAL COLLAR JOINTS BETWEEN WYTHES COMPLETELY FILLED WITH MORTAR OR GROUT.
2.8. BOND BEAMS:- MADE FROM LINTEL BLOCKS, OR HALF WEB BLOCKS, WHERE SHOWN ON STRUCTURAL DRAWING SHALL CONFORM TO CSA A371.
2.9. GROUTING:- BY FILLING VOIDS OF HOLLOW UNITS AND REINFORCED HOLLOW UNITS SHALL CONFORM TO CSA A179 (MORTAR IS NOT ACCEPTABLE).
2.10. MOVEMENT JOINTS:
SHALL BE PROVIDED. SEE ARCHITECTURAL DRAWINGS AND/ OR SPECIFICATION FOR DETAILS.
3. **EXECUTION**
   3.1. BEARING ON MASONRY:
   3.1.1. MINIMUM BEARING ON MASONRY UNLESS OTHERWISE NOTED:-
   BEAMS (STEEL, CONC., WOOD)...................... 200mm (8") NOMINAL
   LINTELS (STEEL, CONC., WOOD) .... 150mm (6") NOMINAL
   JOISTS (STEEL, WOOD) .... 100mm (4") NOMINAL
   SLABS (CAST-IN-PLACE, PRECAST) .... 100mm (4") NOMINAL
   STEEL DECKING (ON WELD PLATE) .... 100mm (4") NOMINAL
   3.1.2. MASONRY BEARINGS SHALL BE OF SOLID BLOCKS (OR GROUTED SOLID) OR BRICKS LAID IN MORTAR. ALL JOINTS ARE TO BE FULLY FILLED WITH TYPE 'S' MORTAR.
   3.1.3. MIN. SIZE OF SOLID BEARINGS AT BEAMS AND LINTELS UNLESS NOTED SHALL BE EQUAL TO TWICE THE BEARING / WALL PLATE (WP) LENGTH AND FOR A DEPTH EQUAL TO THE BEARING / WALL PLATE (WP) LENGTH, AND IN NO CASE LESS THAN 400 LONG x 200 DEEP (16" x 8"), SYMMETRICAL UNDER BEARING POINT.
   3.1.4. PROVIDE A MINIMUM OF ONE CONTINUOUS COURSE 200mm (8") OF SOLID OR GROUTED VOID BLOCKS OR BRICKS LAID IN MORTAR AT THE TOP COURSE IMMEDIATELY BELOW ALL FLOOR AND ROOF BEARING LEVELS.
   3.2. TOLERANCES:
   UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS AND / OR SPECIFICATION, SHALL CONFORM TO CSA A371.
   3.3. HOT AND COLD WEATHER CONSTRUCTION:- REQUIREMENTS AND PROTECTION SHALL CONFORM TO CSA A371 AND UNDER NO CIRCUMSTANCES SHALL MASONRY CONSTRUCTION BE PERMITTED WHEN THE AIR TEMPERATURE FALLS BELOW -12°C.
   3.4 RAKED JOINTS AND TOOTH JOINTS SHALL NOT BE USED. CONCAVE TOOLING OF MORTAR JOINTS SHALL NOT EXCEED 3MM.
   3.5 FIFTY PERCENT RUNNING BOND TO BE USED UNO.
4. **QUALITY CONTROL**
   4.1. WHEN REQUESTED SAMPLING AND TESTING SHALL CONFORM TO CSA STANDARD S304 AND ASTM C140. REFER ALSO TO GENERAL NOTES.

LINTEL NOTES — A07

UNLESS OTHERWISE SHOWN OR NOTED ON THE STRUCTURAL DRAWINGS, PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS, AS FOLLOWS:
1. FOR OPENINGS UP TO 1200 mm (4'-0") CLEAR;
   1.1. ONE ANGLE 90 x 90 x 6 (3 1/2" x 3 1/2" x 1/4") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
   OR
   1.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-10M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
2. FOR OPENINGS FROM 1200mm (4'-0") CLEAR TO 1800mm (6'-0") CLEAR;
   2.1. ONE ANGLE 125 x 90 x 8 LONG LEG VERTICAL (5"x 3 1/2" x 5/16") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
   OR
   2.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-15M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
3. ALL LINTELS TO BEAR 150mm (6") MINIMUM AT EACH END ON SOLID MASONRY, UNLESS SHOWN OTHERWISE.
4. PAIRS OF LINTEL ANGLES ARE TO BE BOLTED OR WELDED TOGETHER, PRIOR TO SHIPMENT, AT MAXIMUM 450mm (18") CENTRES.
5. MASONRY LINTEL BLOCKS MAY ONLY BE USED IN LOAD-BEARING WALLS WITH PERMISSION AND MUST BE FILLED WITH 20 MPa CONCRETE. MORTAR IS NOT ACCEPTABLE AND WILL BE REJECTED.
6. STEEL LINTELS ARE TO BE SUPPLIED BY STEEL CONTRACTOR BUT PLACED BY GENERAL CONTRACTOR OR MASONRY SUB- CONTRACTOR.
7. STEEL CONTRACTOR TO SUPPLY ALL NECESSARY DIRECTIONS REQUIRED FOR PLACING STEEL LINTELS.
8. WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ON THE STRUCTURAL DRAWINGS EACH AND EVERY LINTEL OVER DOORS, MECHANICAL AND ELECTRICAL SERVICES, RECESSES AND POCKETS ETC., THROUGH LOAD-BEARING MASONRY WALLS, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE AND SUPPLY ALL LINTELS REQUIRED THROUGH ALL WALLS (INCLUDING NON-LOAD BEARING WALLS) THROUGHOUT THE PROJECT. UNLESS OTHERWISE DIRECTED, LINTELS SHALL CONFORM TO THE ABOVE REQUIREMENTS.
9. REFER ALSO TO TYPICAL DETAILS.

WOOD FRAMING NOTES — A08

1. **GENERAL**
   1.1. THE FOLLOWING NOTES INDICATE ONLY THE MINIMUM REQUIREMENTS APPLICABLE TO STRUCTURAL WOOD CONSTRUCTION. SEE ALSO ARCHITECTURAL DRAWINGS AND THE SPECIFICATION (IF APPLICABLE) FOR REQUIREMENTS FOR NON-STRUCTURAL WOOD FRAMING.
   1.2. WOOD CONSTRUCTION SHALL CONFORM TO CSA-086 & AND TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.
   1.3. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS OF AIR SPACES, INSULATION, ROOFING, FLOOR AND WALL FINISHES.
   1.4. DUE TO THE CUSTOMIZED DETAILING AND ENGINEERING CHARACTERISTICS OF THE FRAMING ASSEMBLY, MICROLAM **LVL**, PARALLAM **PSL** AND WOOD **I** JOISTS BY TRUSS JOIST MacMILLAN HAVE BEEN USED AS A BASE AND ARE SHOWN ON THE DRAWINGS. ALTERNATIVE PRODUCTS MAY BE PROPOSED WHEN ACCOMPANIED BY PERTINENT DESIGN CRITERIA AND NO ALTERNATIVE MAY IMPEDE THE BASE BUILDING STRUCTURE. ACCEPTANCE OF ALTERNATIVE PRODUCT SHALL ONLY BE IN WRITING ISSUED SOLELY BY THE ARCHITECT.
2. **MATERIALS**
   2.1. LUMBER:- UNLESS OTHERWISE NOTED TO BE SPRUCE-PINE-FIR (SPF) SPECIES, GRADE NO. 2, CONFORMING TO CSA-0141 WITH A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION. LUMBER SHALL BEAR THE GRADING STAMP OF AN AGENCY APPROVED BY THE CANADIAN LUMBER STANDARDS ADMINISTRATION BOARD.
   2.2. NAILS, SPIKES, AND STAPLES:
   TO CSA STANDARD B111; GALVANIZED FOR EXTERIOR WORK, OR HIGHLY HUMID AREAS AND FOR TREATED LUMBER; PLAIN ELSEWHERE. NAILING OF FRAMING UNLESS OTHERWISE NOTED, SHALL CONFORM TO ARTICLE 9.23.3 IN THE ONTARIO BUILDING CODE.
   2.3. ROUGH HARDWARE:
   BOLTS, NUTS, WASHERS, LAGS, PINS, SCREWS, ALL TO BE HOT DIP GALVANIZED.
   2.4. WOOD PRESERVATIVES (PRESSURE TREATED):
   WHERE REQUIRED TO CONFORM TO CSA-080 SERIES
   2.5. FRAMING ANCHORS:
   FRAMING ANCHORS, BEAM HANGERS, AND ANGLES, UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DRAWINGS, ARE ALL TO BE AS MANUFACTURED BY AN APPROVED EQUAL, SIZED TO THE JOB AT HAND. ALL ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS UTILIZING "SPECIAL" NAILS WHERE REQUIRED.
3. **EXECUTION**
   3.1. NOTCHING AND DRILLING:
   ONLY ALLOWED WITHIN THE LIMITATIONS SET OUT IN THE ONTARIO BUILDING CODE.
   3.2. BRICK VENEER:
   .1 UNLESS OTHERWISE NOTED, BRICK VENEER IS TO BE TIED TO WOOD STUDS WITH A MIN. 0.76x22 mm (22 GAUGE x 7/8") GALVANIZED CORRUGATED STRIP TIES SPACED AT MAX. 400X600 (16"X24") CENTRES, ON EVERY STUD. STRIP TIES TO CONFORM TO CSA-A370.
   .2 IF BRICK VENEER EXCEEDS 11000mm (36'-0") HIGH, CORRUGATED STRIP TIES ARE NOT TO BE USED, OBTAIN DIRECTIONS BEFORE PROCEEDING.
4. **GLUED-LAMINATED TIMBER (GLULAM)**
   4.1. SEE NOTE #1.4 ABOVE. ACCEPTANCE OF ALTERNATIVE PRODUCTS SHALL ONLY BE IN WRITING ISSUED SOLELY BY THE ARCHITECT.
   4.2. BEAMS, LINTELS AND JOISTS SHALL BE AS SUPPLIED BY AN APPROVED MANUFACTURER.
   4.3. WOOD VENEERS & ADHESIVES:
   SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S STANDARDS AND APPLICABLE CSA STANDARDS.
   4.4. ALL MEMBERS SHALL BEAR IDENTIFICATION MARKS OF THE MANUFACTURER.
   4.5. EXECUTION:
   .1 MINIMUM END BEARING SHALL BE 75mm (3") UNLESS NOTED.
   .2 WHERE INDIVIDUAL MEMBERS ARE BUTTED TOGETHER, JOINTS SHALL OCCUR OVER SUPPORTS, EXCEPT THAT WHERE BEAMS ARE CONTINUOUS OVER MORE THAN ONE SUPPORT, JOINTS MAY BE LOCATED WITHIN 150mm (6") OF THE QUARTER POINTS OF THE CLEAR SPANS. SUCH JOINTS SHALL BE STAGGERED END FOR END.
   .3 NAILING AND/OR BOLTING:
   OF MULTI-PLYS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND IN NO CASE LESS THAN 2 ROWS OF 16d (3 1/2") NAILS AT 300mm (12") CENTRES, EACH ROW.
   .4 NOTCHING & DRILLING:
   PERMITTED ONLY WITH APPROVAL AND WITHIN THE LIMITATIONS SPECIFIED IN THE ONTARIO BUILDING CODE.
   4.6. GLULAM TIMBER PRODUCTS SHALL CONFORM TO CSA-086, CSA-0122 AND BE MANUFACTURED IN ACCORDANCE WITH CSA-0177.
   4.7. CONNECTIONS TO CONFORM TO CSA-G40.20/G40.21, PRIMED OR GALVANIZED AS NOTED TO CGSB-1.40 OR CSA-G164. WELDING TO CSA-W59 AND W47.1.
   4.8. SUBMIT SHOP DRAWINGS AS DIRECTED.

COMPRESSION-TENSION DEVELOPMENT AND LAP LENGTHS Fy = 400 MPa — C02A

NOTES
1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOWS
CLS - COMPRESSION LAP SPLICE
CDL - COMPRESSION DEVELOPMENT LENGTH
HEL - HOOK EMBEDMENT LENGTH

COMPRESSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 400 MPa)

CLS: COMPRESSION LAP SPLICE LENGTH (mm)

UNCOATED BLACK BAR							
10M	15M	20M	25M	30M	35M	45M	55M
300	440	590	730	880	1030	NOT PERMITTED	

CDL: COMPRESSION DEVELOPMENT LENGTH (mm)

f'c	UNCOATED BLACK BAR							
	10M	15M	20M	25M	30M	35M	45M	55M
20MPa	250	340	420	540	640	770	940	1210
25MPa	220	310	370	600	570	690	840	1080
30MPa	200	280	340	440	530	630	770	990
35MPa	200	280	340	440	530	630	770	990
40MPa	200	280	340	440	530	630	770	990
> 40 MPa	SEE MINIMUM VALUES FOR f'c = 40 MPa							

NOTES:
1. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:
a. MULTIPLY BY 1.1 (TWO BAR BUNDLES) b. MULTIPLY BY 1.2 (THREE BAR BUNDLES) c. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)

2. FOR EMBEDMENTS ENCLOSED IN SPIRALS, MULTIPLY BY 0.75, BUT NOT LESS THAN 200mm.

HEL: MINIMUM TENSION EMBEDMENT LENGTH WITH STANDARD HOOK (mm)

f'c	UNCOATED BLACK BAR							
	10M	15M	20M	25M	30M	35M	45M	55M
20MPa	220	340	450	560	670	780	1010	1230
25MPa	200	300	400	500	600	700	900	1100
30MPa	180	270	370	460	550	640	830	1010
35MPa	170	250	340	420	510	590	770	930
40MPa	160	240	320	400	470	550	720	870
45MPa	150	220	300	370	450	520	680	820
50MPa	150	210	280	350	420	490	640	780
55MPa	150	200	270	340	400	470	610	750

NOTES:
1. VALUES PROVIDED ARE BASED ON NORMAL WEIGHT CONCRETE AND MUST BE INCREASED FOR LIGHTWEIGHT CONCRETES:
a. MULTIPLY BY 1.2 (FOR SEMI-LOW DENSITY CONCRETE)
b. MULTIPLY BY 1.3 (FOR LOW-DENSITY CONCRETE)
2. FOR 35M AND SMALLER BARS MULTIPLY THE VALUES IN THE TABLE BY 0.7 (BUT NOT LESS THAN 150mm) WHERE THE SIDE COVER (NORMAL TO THE PLANE OF THE HOOK) IS AT LEAST 60mm, AND FOR 90° HOOKS WHERE COVER ON THE BAR EXTENSION BEYOND THE HOOK IS AT LEAST 50mm.
3. FOR 35M AND SMALLER BARS MULTIPLY THE VALUES IN THE TABLE BY 0.8 (BUT NOT LESS THAN 150mm) WHERE THE HOOK IS ENCLOSED WITHIN AT LEAST THREE(3) TIES OR STIRRUPS SPACED ALONG A LENGTH EQUAL TO THE INSIDE DIAMETER OF THE HOOK AT A SPACING NOT MORE THAN 3 TIMES THE BAR DIAMETER.

TENSION DEVELOPMENT AND LAP SPLICE LENGTHS Fy = 400 MPa — C02B

NOTES
1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOW
TLS - TENSION LAP SPLICE
TDL - TENSION DEVELOPMENT LENGTH

TENSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 400 MPa)

TLS: TENSION LAP SPLICE LENGTH (CLASS B) (mm)

f'c	UNCOATED BLACK BAR											
	10M		15M		20M		25M		30M		35M	
	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
20MPa	550	420	820	630	1090	840	1710	1310	2050	1570	2390	1840
25MPa	490	380	740	570	980	750	1530	1170	1830	1410	2130	1640
30MPa	450	350	670	520	890	690	1390	1070	1670	1290	1950	1500
35MPa	420	320	620	480	830	640	1290	990	1550	1190	1800	1390
40MPa	390	300	580	450	770	600	1210	930	1450	1110	1690	1300
45MPa	370	300	550	420	730	560	1140	880	1370	1050	1590	1230
50MPa	350	300	520	400	690	530	1080	830	1300	1000	1510	1160
55MPa	330	300	500	380	660	510	1030	790	1240	950	1440	1110
60MPa	320	300	480	370	630	490	990	760	1180	910	1380	1060
64MPa	310	300	460	360	610	470	960	740	1150	880	1340	1030

TDL: TENSION DEVELOPMENT LENGTH (mm) CLASS "A" LAP SPLICE

f'c	UNCOATED BLACK BAR											
	10M		15M		20M		25M		30M		35M	
	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
20MPa	420	330	630	490	840	650	1310	1010	1570	1210	1840	1410
25MPa	380	300	570	440	750	580	1170	900	1410	1080	1640	1260
30MPa	350	300	520	400	690	530	1070	830	1290	990	1500	1160
35MPa	320	300	480	370	640	490	990	770	1190	920	1390	1070
40MPa	300	300	450	350	600	460	930	720	1110	860	1300	1000
45MPa	300	300	420	330	560	430	880	680	1050	810	1230	940
50MPa	300	300	400	310	530	410	830	640	1000	770	1160	900
55MPa	300	300	380	300	510	390	790	610	950	730	1110	850
60MPa	300	300	370	300	490	380	760	590	910	700	1060	820
64MPa	300	300	360	300	470	360	740	570	880	680	1030	790

NOTES:
1. VALUES PROVIDED ARE BASED ON NORMAL WEIGHT CONCRETE AND MUST BE INCREASED FOR LIGHTWEIGHT CONCRETES:
a. MULTIPLY BY 1.2 (FOR SEMI-LOW DENSITY CONCRETE)
b. MULTIPLY BY 1.3 (FOR LOW-DENSITY CONCRETE)
2. IF BUNDLED BARS ARE USED THE VAULES IN THE TABLES MUST BE INCREASED:
a. MULTIPLY BY 1.1 (TWO BAR BUNDLES)
b. MULTIPLY BY 1.2 (THREE BAR BUNDLES)
c. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)

TYPICAL CONCRETE COVER TABLE — C01

			CONCRETE EXPOSURE (1,2,3)			
			CHLORIDES WITH OR WITHOUT FREEZE / THAW		NO CHLORIDES WITH FREEZE / THAW	NO CHLORIDES OR FREEZE / THAW
			PROTECTED AREA (7,8,9)	UNPROTECTED AREA (10)	EXTERIOR EXPOSED CONCRETE	GENERAL NON-EXPOSED CONCRETE
ELEMENTS EXPOSED TO EARTH	PROJECT SPECIFIC COMMENTS	BAR SIZE	COVER (mm)			
PERMANENTLY EXPOSED TO SOIL		ALL SIZES	GREATER OF 60mm OR 2.0Ø	GREATER OF 40mm OR 1.5Ø		
CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL (U/S OF FOOTINGS)		ALL SIZES	75			

TABLE NOTES
1. REFER TO CONCRETE MIX DESIGN TABLE FOR EXPOSURE CLASSIFICATION OF STRUCTURAL ELEMENTS.
2. CONCRETE COVER VALUES NOTED IN THE TABLE ARE BASED ON THE GREATER OF CONCRETE EXPOSURE (CSA A23.1-19, CSA S413-21) AND FIRE RATING (NBCC 2020) REQUIREMENTS.
3. CONCRETE COVER SHALL BE MEASURED FOR THE DEEPEST POINT OF TEXTURED CONCRETE SURFACE TO THE NEAREST DEFORMATION OF REINFORCEMENT. REINFORCEMENT INCLUDES TIES, STIRRUPS AND MAIN BARS.
4. THE REQUIRED CONCRETE COVER FOR FIRE RATING OF MAIN BAR IS ACHIEVED BY PROVIDING THE COVER VALUE NOTED FROM THE DEEPEST POINT OF TEXTURED CONCRETE SURFACE TO THE NEAREST DEFORMATION OF 10mm TIE OR STIRRUP REINFORCEMENT.
5. FOR FIRE RATING REFER TO ARCHITECTURAL DRAWINGS. FIRE RATING FOR STRUCTURAL ELEMENTS SHALL BE ASSUMED TO BE 2 HOURS UNLESS NOTED OTHERWISE. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCY IN FIRE RATING BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS.
6. FOR COLUMNS THAT ARE FIRE RATED MORE THAN 3HRS AND WITH CONCRETE COVER EXCEEDING 63mm TO VERTICALS, PROVIDE WIRE MESH REINFORCEMENT WITH MINIMUM 1.57mm DIAMETER WIRE WITH 100mm OPENINGS AT MIDWAY IN THE CONCRETE COVER TO RETAIN THE CONCRETE IN POSITION.
7. ALL CONCRETE BEAMS AND SLABS IN PARKING GARAGE SHALL BE PROTECTED BY MEMBRANE ("M" PROTECTION SYSTEM PER CSA S413). CONCRETE COVER SHALL BE BASED ON PROTECTED AREAS.
8. ALL WALLS AND COLUMNS IN PARKING GARAGE AREA SHALL BE PROTECTED BY 100mm EXTENSION OF MEMBRANE ABOVE THE FLOOR OR APPROVED SEALER. CONCRETE COVER SHALL BE BASED ON PROTECTED AREAS.
9. STAIRS IN PARKING AREAS ARE TO INCLUDE DCI AT DOSAGE OF 10L/m³.
10. STRUCTURAL ELEMENTS NOT SATISFYING NOTE 7,8,9 SHALL BE ASSUMED UNPROTECTED. CONCRETE COVER PROVIDED SHALL BE BASED ON UNPROTECTED AREA.
11. CONCRETE EXPOSURE PF ROOF SLABS PROTECTED BY WATERPROOFING MEMBRANE AND INSULATION SHALL BE CONSIDERED AS EXTERIOR EXPOSED CONCRETE FOR TOP BARS AND GENERAL NON-EXPOSED FOR BOTTOM BARS.
12. FOR CONCRETE COVER FOR BUNDLED BARS, REFER TO THE DESIGN DRAWINGS.
13. ALL LOAD BEARING ELEMENTS (WALLS AND COLUMNS) IMMEDIATELY BELOW FLOOR ASSEMBLY MUST HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT FOR THE SUPPORTED ASSEMBLY.
14. FOR FOUNDATION WALLS CAST AGAINST MIRADRAIN WATERPROOFING, EXPOSURE CATEGORY ON EXTERIOR FACE SHALL BE CONSIDERED AS NO CHLORIDES OR FREEZE / THAW.

TYPICAL DETAIL LIST

DETAIL NAME	SHEET NUMBER
A03.1-CAST-IN-PLACE CONCRETE NOTES	S7-01
A01-STANDARD ABBREVIATIONS	S7-01
A04-STRUCTURAL STEEL AND OWSJ / LSSJ NOTES	S7-01
A03.2-CAST-IN-PLACE CONCRETE NOTES	S7-01
A02-GENERAL NOTES 2024	S7-01
A07-LINTEL NOTES	S7-01
A06-LOAD BEARING MASONRY NOTES	S7-01
A05-STEEL DECK NOTES	S7-01
C02A COMPRESSION-TENSION LAP LENGTHS PART 1 OF 2	S7-01
C02B TENSION LAP LENGTHS PART 2 OF 2	S7-01
C01 TYPICAL CONCRETE COVER TABLE	S7-01
CC01 TYPICAL DETAIL OF CONCRETE COLUMN	S7-02
CFW02B TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS	S7-02
CFW01 CONCRETE WALLS AND FOUNDATION WALLS (NOT SPECIFIED AS SHEAR WALLS)	S7-02
CFW02A TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS	S7-02
CG02 THICKENING OF SLAB ON GRADE	S7-02
CG03 TYPICAL SLAB-ON-GRADE DETAILS	S7-02
CG01A SLAB ON GRADE DETAILS	S7-02
CG01B SLAB ON GRADE DETAILS	S7-02
CG01C SLAB ON GRADE DETAILS	S7-02
CW01 TYPICAL JOINTS IN CONCRETE SHEAR WALLS	S7-02
CW02 TYPICAL DETAIL OF OPENINGS IN CONCRETE WALL	S7-03
F09 TYPICAL STEPPED FOOTING DETAILS	S7-03
M04-TYPICAL ELEVATION REINFORCED MASONRY WALLS AND PIERS	S7-03
M03-TYPICAL PLAN DETAIL REINFORCED EXTERIOR MASONRY WALLS AND PIERS PLAN DETAIL	S7-03
M06-TYPICAL DETAIL OF CONSTRUCTED CORNERS IN SINGLE WYTHE MASONRY WALLS (NO CONTROL JOINT)	S7-03
M01A-NON-LOAD BEARING BLOCK WALL LINTELS	S7-03
M02-TYPICAL "DOUBLE COURSE" DEPTH REINFORCED MASONRY LINTEL BEAM	S7-03
M07-TYPICAL MASONRY WALL REINFORCING SCHEDULE NOTES	S7-03
M01B-TYPICAL LINTEL DETAILS	S7-03
M08-TYPICAL STEEL BEAM BEARING ON MASONRY WALL (PERPENDICULAR)	S7-03
M09-TYPICAL STEEL BEAM BEARING ON END OR CORNER OF MASONRY WALL (MINIMUM REQUIREMENTS)	S7-03
M10-TYPICAL DETAIL AT CONTROL JOINT IN REINFORCED MASONRY WALL	S7-03
M14B-TYPICAL BRACE SUPPORTING PARTITIONS	S7-04
M15-TYPICAL ADJUSTABLE ANCHORS STEEL / MASONRY	S7-04
M14A-TYPICAL LATERAL SUPPORT AT PARTITIONS_2024	S7-03
SB04-STEEL BEAM BEARING ON STEEL COLUMN	S7-04
SB03-STEEL BEAM AND GIRDER MOMENT CONNECTIONS	S7-04
SB01-STEEL BEAM AND GIRDER DESIGNATIONS	S7-04
SB06-UNREINFORCED OPENINGS IN BEAM WEBS	S7-04
SB02A-ERECTION TOLERANCES FOR STRUCTURAL STEEL BEAMS	S7-04
SB02B-ERECTION TOLERANCES FOR STRUCTURAL STEEL BEAMS	S7-04
SC07-STEEL COLUMN BEARING ON STEEL BEAM	S7-04
SJ02-OWSJ BRIDGING DETAILS	S7-05
SJ03-FREE OPENINGS IN STEEL JOISTS	S7-05
SJ01B-OWSJ ROOF FRAMING DETAILS	S7-04
SJ01C-OWSJ SUPPORTING DECKING	S7-04
SJ01D-OWSJ SUPPORTING DECKING	S7-04
SJ01E-TIE JOISTS	S7-04
SJ01A-OWSJ SUPPORTING DECKING	S7-04
SMS01-DECK SUPPORT PLATES/ANGLES	S7-05
SR01-ROOF / SKYLIGHT OPENING FRAMING DETAILS	S7-05
SR03-CHANGE OF DECK DIRECTION	S7-05
SR07A-ROOF ANCHOR SUPPORT ASSEMBLY (STEEL BEAM)	S7-05
SR06A-ROOF ANCHOR SUPPORT ASSEMBLY (STEEL JOIST) (FRENCH)	S7-05
M11-TYPICAL CONCRETE PAD UNDER STEEL COLUMN BEARING ON MASONRY WALL	S7-03
M07B-DETAILS OF MASONRY PARTITION AT CONCRETE SLAB AND WALL	S7-05
A08-WOOD FRAMING NOTES 2024	S7-01
M07A.2 NON LOAD-BEARING MASONRY PARTITION REINFORCING SCHEDULE_2024	S7-03
M05-TYPICAL CONCRETE PAD UNDER STEEL BEAM BEARING ON MASONRY WALL	S7-05
SR09-SHEAR STUB COLLECTOR DETAIL	S7-05

NO	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENSED PROFESSIONAL ENGINEER
26-06-08
J. C. GASDIA
100169574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

LEGAL DESCRIPTION:

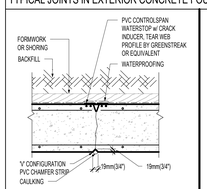
HALTON CATHOLIC DISTRICT SCHOOL BOARD — HCDSB

GENERAL NOTES

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

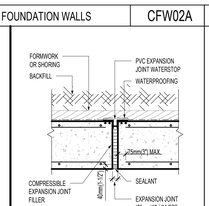
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PROJECT 2549-01176
DATE JUNE 2026
DRAWN AE
DRAWING S7-01
CHECKED CG/JG
PRINT DATE 2026-06-05 10:12:52 AM
REVIT FILE

TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS — CFW02A

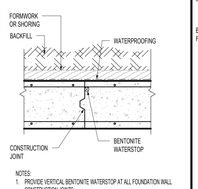


NOTES:
1. EVERY OTHER HORIZONTAL BAR TO BE CUT ACROSS CONTROL JOINT ON BOTH INSIDE AND OUTSIDE FACES.
2. CONTROL JOINTS ARE NOT TO BE PLACED IN AIR SHAFTS.

VERTICAL CONTROL JOINT
AT EXTERIOR CONCRETE WALL
JOINTS @ 4500mm (15'-0") CENTERS MAX.

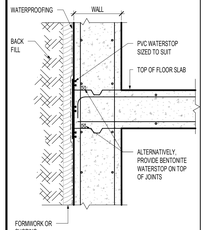


VERTICAL EXPANSION JOINT
AT EXTERIOR CONCRETE WALL
FOR LOCATIONS SEE PLAN

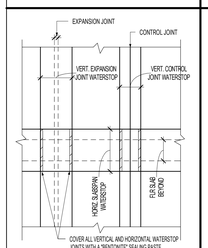


NOTES:
1. PROVIDE VERTICAL BENTONITE WATERSTOP AT ALL FOUNDATION WALL CONSTRUCTION JOINTS.
2. CONSTRUCTION JOINTS SHALL NOT BE WITHIN 10 SPAN OR MINIMUM 2000 FROM PERPENDICULAR WALLS OR COLUMNS CONNECTED TO FOUNDATION WALL.

VERTICAL CONSTRUCTION JOINT
AT EXTERIOR CONCRETE WALL

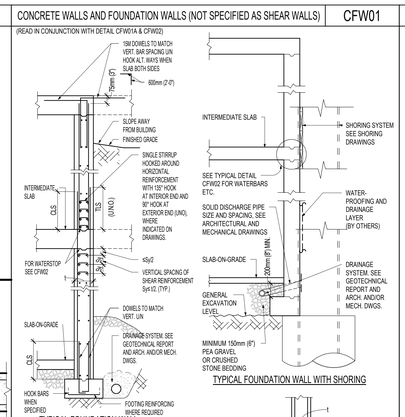


HORIZONTAL CONSTRUCTION JOINT AT
EXTERIOR CONCRETE WALL AND SLAB



ELEVATION OF EXTERIOR CONCRETE WALL
AT WATERSTOP LAP JOINTS

CONCRETE WALLS AND FOUNDATION WALLS (NOT SPECIFIED AS SHEAR WALLS) — CFW01

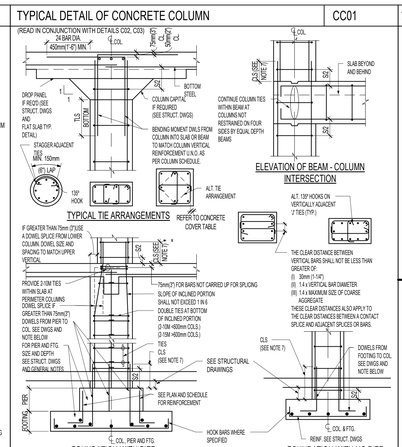


1. LAP HORIZ. WALL REINF WITH TLS (TOP)
2. WALLS AND FOOTINGS ARE DESIGNED ASSUMING BOTH FACES ARE FORMED. IF WALL AND/OR FOOTINGS ARE TO BE PLACED DIRECTLY AGAINST SOIL (i.e., NO FORM USED), PERMISSION AND INSTRUCTIONS MUST BE OBTAINED FROM THE STRUCTURAL CONSULTANT.
3. SEE CFW01A FOR ALTERNATE ARRANGEMENT OF SHEAR STIRRUPS FOR FOUNDATION WALLS.

MINIMUM REINFORCEMENT FOR CONCRETE WALLS TO BE AS FOLLOWS UNLESS NOTED †						
f	150	200	250	300	350	
VERT.	10@400E	10@400SF	10@400EF	10@440 EF	10@380EF	
HORIZ.	10@300E	10@400SF	10@400EF	10@320 EF	10@280EF	
	32	37	42	47	52	
VERT.	10@315 E	10@180 EF	10@180 EF	10@172 EF	10@140 EF	
HORIZ.	10@215 E	10@180 EF	10@180 EF	10@172 EF	10@116EF	

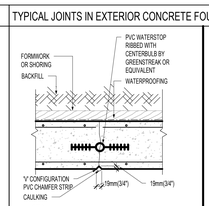
† REDUCE SPACING OF HORIZ. BARS BY 20% FOR UNHEATED AREAS

TYPICAL DETAIL OF CONCRETE COLUMN — CC01



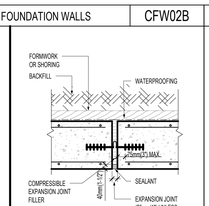
1. TIE SPACING SHALL NOT EXCEED THE LEAST OF (i) 16 DIAMETERS (ii) 48 TIE DIAMETERS (iii) THE LEAST COLUMN DIMENSION, OR (iv) THE SPACING GIVEN ON THE COLUMN SCHEDULE. (FOR COLUMN COMPRESSIVE STRENGTH NOT GREATER THAN 50MPa, OTHERWISE 75% SPACING)
2. TIES SHALL BE SO ARRANGED THAT CORNER AND ALTERNATE LONGITUDINAL BARS SHALL HAVE LATERAL SUPPORT PROVIDED BY THE CORNER OF A TIE HAVING AN INCLUDED ANGLE OF NOT MORE THAN 135 DEGREES. NO BAR SHALL BE MORE THAN 150mm (6") FROM A LATERALLY SUPPORTED BAR.
3. PLAIN BARS SHALL ONLY BE USED WITH PERMISSION FROM THE ENGINEER AND ACCORDING TO THEIR SPECIAL INSTRUCTIONS.
4. LAPPED SPLICES MAY BE REPLACED BY WELDING OR MECHANICAL DEVICES WITH APPROVAL FROM ENGINEER.
5. DOWELS FROM FOOTING OR PIER TO COLUMNS TO PROJECT EQUALLY ABOVE AND BELOW THE CONSTRUCTION JOINT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. NUMBER AND SIZE OF DOWELS TO MATCH COLUMN VERTICALS UNLESS OTHERWISE NOTED ON DRAWINGS.
6. WHEN COLUMN IS MARKED AS TENSION LAP IN COLUMN SCHEDULE USE TLS (BOTTOM) INSTEAD OF CLS.
7. SPLICE LENGTH FOR BARS WITH DIFFERENT DIAMETERS WILL BE BASED ON BAR WITH LARGER DIAMETER
8. FOR BUNDLED BARS LAP LENGTH, SEE C02 AND C03.

TYPICAL JOINTS IN EXTERIOR CONCRETE FOUNDATION WALLS — CFW02B

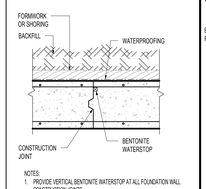


NOTES:
1. EVERY OTHER HORIZONTAL BAR TO BE CUT ACROSS CONTROL JOINT ON BOTH INSIDE AND OUTSIDE FACES.
2. CONTROL JOINTS ARE NOT TO BE PLACED IN AIR SHAFTS.

VERTICAL CONTROL JOINT
AT EXTERIOR CONCRETE WALL
JOINTS @ 4500mm (15'-0") CENTERS MAX.

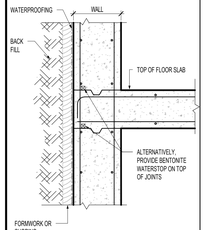


VERTICAL EXPANSION JOINT
AT EXTERIOR CONCRETE WALL
FOR LOCATIONS SEE PLAN



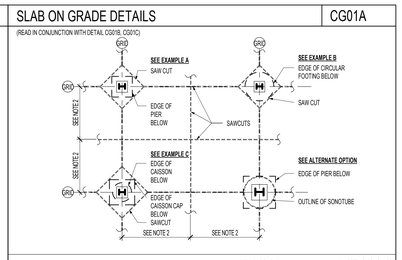
NOTES:
1. PROVIDE VERTICAL BENTONITE WATERSTOP AT ALL FOUNDATION WALL CONSTRUCTION JOINTS.
2. CONSTRUCTION JOINTS SHALL NOT BE WITHIN 10 SPAN OR MINIMUM 2000 FROM PERPENDICULAR WALLS OR COLUMNS CONNECTED TO FOUNDATION WALL.

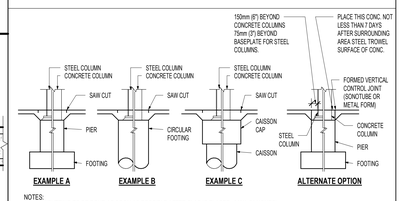
VERTICAL CONSTRUCTION JOINT
AT EXTERIOR CONCRETE WALL



HORIZONTAL CONSTRUCTION JOINT AT
EXTERIOR CONCRETE WALL AND SLAB

SLAB ON GRADE DETAILS — CG01A

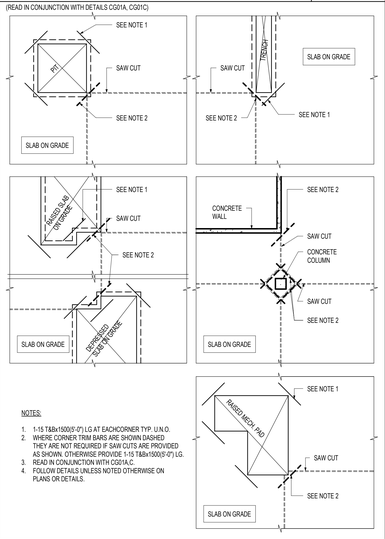




NOTES:
1. SAWCUTTING TO BE DONE AS SOON AS POSSIBLE AFTER SLAB IS PLACED. (MAX. 24 HOURS).
2. JOINTS TO BE AT MAX. 24x SLAB THICKNESS FOR MAXIMUM AGGREGATE SIZE SMALLER THAN 19mm(¾") AND 30 TIMES SLAB THICKNESS FOR AGGREGATE SIZE LARGER THAN 19mm (¾"), BUT NOT MORE THAN 4500mm (14'-9").
3. MAXIMUM RATIO BETWEEN LENGTH AND WIDTH OF ANY PANEL (CREATED BY SAWCUT) SHOULD NOT EXCEED 1.5.
4. COORDINATE EXACT LOCATIONS OF SAWCUTS IN SLAB ON GRADE WITH ARCHITECTURAL REQUIREMENTS.
5. SAWCUT SLAB ON GRADE AT LOCATIONS SHOWN ON PLAN OR AS NOTED BELOW. ALTERNATE LOCATIONS SHALL BE SUBMITTED TO CONSULTANT FOR REVIEW, WELL IN ADVANCE OF POURING SLAB ON GRADE.
6. AFTER THE SLAB IS A MINIMUM 60 DAYS OLD, REMOVE ALL DEBRIS FROM THE SAW CUTS AND FILL WITH MORTAR CONTAINING CEMENT, SAND AND LATEX BONDING AGENT, OR AS NOTED IN SPECIFICATIONS.
7. PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT ROUT ALL CRACKS IN THE SLAB ON GRADE AND FILL WITH MORTAR CONTAINING CEMENT, SAND AND LATEX BONDING AGENT OR AS NOTED IN SPECIFICATIONS.
8. REFER TO TYPICAL DETAIL CG01B, CG01C FOR SAW CUT DETAILS.

SLAB ON GRADE DETAILS — CG01B

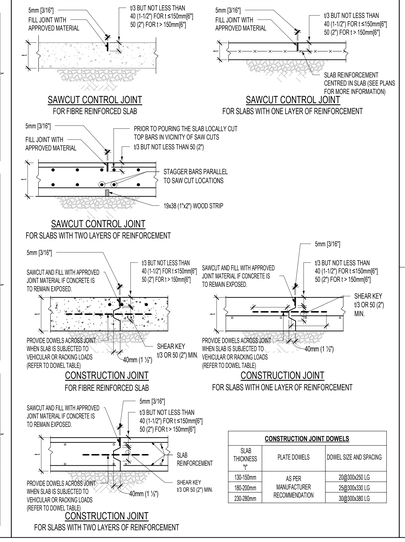
(READ IN CONJUNCTION WITH DETAILS CG01A, CG01C)



NOTES:

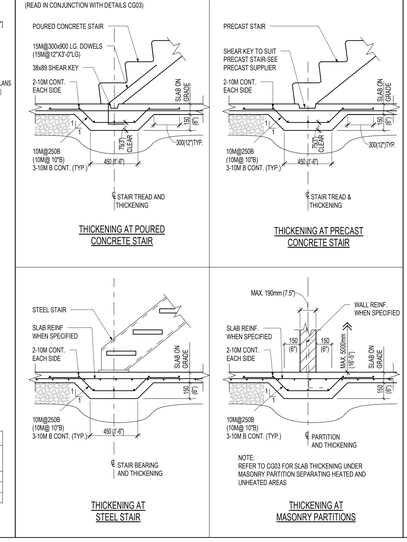
1. 1-15 T&Bx1500(5'-0") LG AT EACHCORNER TYP. U.N.O.
2. WHERE CORNER TRIM BARS ARE SHOWN DASHED THEY ARE NOT REQUIRED IF SAW CUTS ARE PROVIDED AS SHOWN. OTHERWISE PROVIDE 1-15 T&Bx1500(5'-0") LG.
3. READ IN CONJUNCTION WITH CG01A,C.
4. FOLLOW DETAILS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

SLAB ON GRADE DETAILS — CG01C

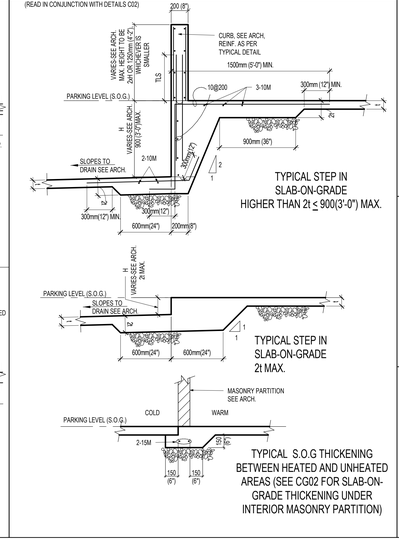


CONSTRUCTION JOINT DOWELS		
SLAB THICKNESS 'h'	PLATE DOWELS	DOWEL SIZE AND SPACING
130-150mm	AS PER MANUFACTURER RECOMMENDATION	20@300x250 LG
160-200mm		25@300x300 LG
210-260mm		30@300x380 LG

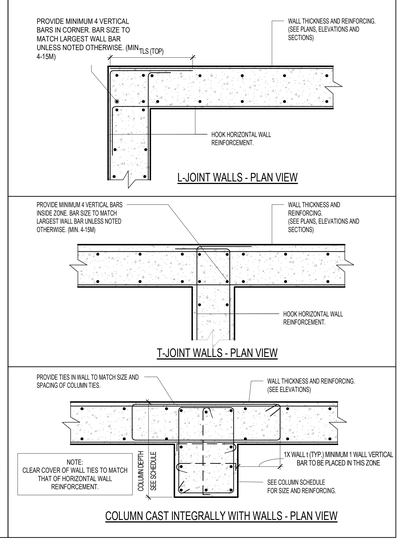
THICKENING OF SLAB ON GRADE — CG02



TYPICAL SLAB-ON-GRADE DETAILS — CG03



TYPICAL JOINTS IN CONCRETE WALLS (NOT SPECIFIED AS SHEARWALLS) — CW01



NO	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 09, 2026
1	ISSUED FOR PERMIT AND COSTING	MAY. 06, 2026

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENSED PROFESSIONAL ENGINEER
25-05-08
J. C. GASDIA
100169574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD

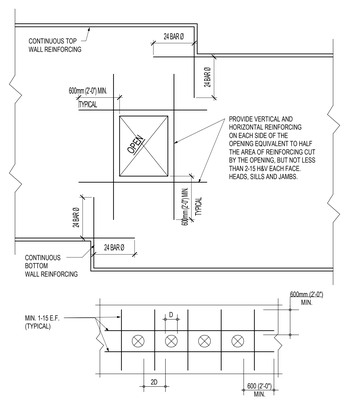
TYPICAL DETAILS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE	1 : 1
PROJECT	2549-01176
DATE	JUNE 2026
DRAWN	AE
CHECKED	CG/JG
DRAWING	S7-02
PRINT DATE	2026-06-05 10:12:53 AM
REVIT FILE	

TYPICAL DETAIL OF OPENINGS IN CONCRETE WALL — CW02

(NOT SPECIFIED AS SHEARWALLS)

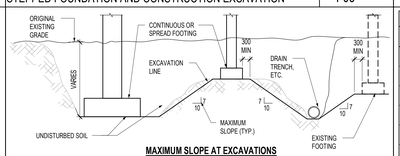


D = DIAMETER OF OPENING

TYPICAL DETAIL OF ADDITIONAL REINFORCEMENT AT WALL OPENINGS

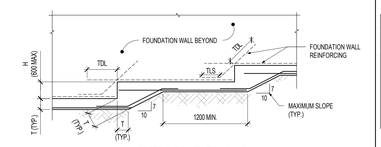
(TYPICAL UNLESS OTHERWISE SHOWN ON DRAWINGS)

STEPPED FOUNDATION AND CONSTRUCTION EXCAVATION — F09



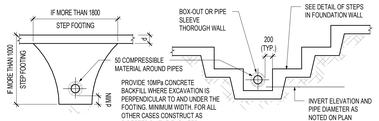
MAXIMUM SLOPE AT EXCAVATIONS

NOTES:
1. WHERE TRENCHING OR EXCAVATING AT ADJACENT FOOTING SATISFY THE MAXIMUM SLOPE REQUIREMENT SHOWN ABOVE.
2. IF EXCAVATION REQUIREMENTS VIOLATE SLOPE REQUIREMENTS PROVIDE PLANS FOR REMEDIAL MEASURES (BRACING OR UNDERPINNING) TO THE CONSULTANT PRIOR TO PROCEEDING



STEPS IN FOUNDATION WALL

NOTES:
1. STEPS IN FOUNDATION WALLS TO FOLLOW THE GEOMETRY SHOWN ABOVE UNLESS NOTED OTHERWISE ON PLANS



PIPES UNDER CONTINUOUS WALL FOOTINGS — **PIPES REQUIRING STEPPED FOOTINGS**

NON-LOAD BEARING BLOCK WALL LINTELS — M01A

STRUCTURAL STEEL LINTELS

WALL OPENING CLEAR SPAN	MASONRY BLOCK THICKNESS 90 (4")	140 (6")	190 (8")	240 (10")	290 (12")
300mm TO 500mm (12" TO 22")	75mm X 8mm PL (3"x5/16" PL)	125mm X 8mm PL (5"x5/16" PL)	175mm X 8mm PL (7"x5/16" PL)	225mm X 8mm PL (9"x5/16" PL)	275mm X 8mm PL (11"x5/16" PL)
550mm TO 1200mm (22" TO 4'-0")	1-L89x89x6.4 OR 2-L44x44x4.8	1-L127x89x6.4 (LLH) OR 2-L64x44x5.4	2-L89x89x6.4	2-L89x89x6.4	3-L89x89x6.4
1200mm TO 1830mm (4'-0" TO 6'-0")	1-L127x89x7.9 (LLV) OR 2-L51x38x5.4(LLV)	1-L127x127x7.9 OR 2-L89x64x6.4 (LLV)	2-L89x89x6.4	L102x89x6.4 (LLH) + L127x89x6.4 (LLH)	3-L89x89x6.4
1830mm TO 2440mm (6'-0" TO 8'-0")	1-L127x89x7.9 (LLV)	1-L127x127x7.9 OR 2-L89x64x7.9 (LLV)	2-L127x89x6.4 (LLV)	L152x102x7.9 + L127x102x7.9 (LLH)	3-L127x89x6.4 (LLV)
2440mm TO 3080mm (8'-0" TO 10'-0")	1-L127x89x9.5 (LLV)	1-L127x127x7.9	2-L127x89x7.9 (LLV)	L152x102x7.9 (LLV)+ L127x127x7.9	3-L127x89x7.9 (LLV)
3080mm TO 3660mm (10'-0" TO 12'-0")	N/A	N/A	W200x27 + 175x6.4 PL. BOTTOM	W200x27 + 225x6.4 PL. BOTTOM	N/A

STRUCTURAL STEEL LINTEL NOTES:
1. WHEN PROVIDING MULTIPLE ANGLES SEE DIAGRAMS FOR ORIENTATION. BOLT DOUBLE ANGLES BACK TO BACK USING 16mmØ BOLTS OR PROVIDE 6mm/450mm (1/4"x2") LONG WELDS @450mm (18") O/C STARTING AT 100mm (4") MAX FROM THE EACH END OF THE LINTEL.
2. SAWCUT WEBS OF BLOCK IN COURSE OF BLOCK OVER OPENING AS NECESSARY TO INSTALL ANGLES.
3. ALTERNATIVES PROVIDED FOR CASES WHERE EXPOSED FACE OF SINGLE ANGLE IS NOT ACCEPTABLE.

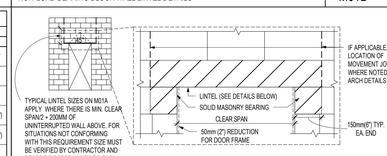
MASONRY BEAM LINTELS

WALL OPENING CLEAR SPAN	MASONRY BLOCK THICKNESS 90 (4")	140 (6")	190 (8")	240 (10")	290 (12")
0mm TO 1200mm (0" TO 4'-0")		390 (16") DEEP 1-10M B	390 (16") DEEP 1-10M B	190 (8") DEEP 1-10M B	190 (8") DEEP 1-10M B
1200mm TO 1830mm (4'-0" TO 6'-0")		390 (16") DEEP 1-10M B	390 (16") DEEP 1-10M B	390 (16") DEEP 1-10M B	390 (16") DEEP 1-15M B
1830mm TO 2440mm (6'-0" TO 8'-0")		390 (16") DEEP 1-10M B	390 (16") DEEP 1-15M B	390 (16") DEEP 1-15M B	390 (16") DEEP 1-15M B
2440mm TO 3080mm (8'-0" TO 10'-0")		390 (16") DEEP 1-10M B	390 (16") DEEP 1-15M B	390 (16") DEEP 1-15M B	390 (16") DEEP 3-10M B

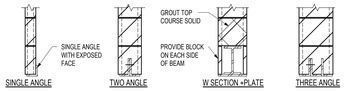
MASONRY BEAM LINTEL NOTES:
1. BEAM MUST BE FILLED WITH MASONRY GROUT (MORTAR IS NOT ACCEPTABLE). REFER TO M03 FOR DETAILS.
2. TEMPORARILY SHORE LINTEL UNTIL GROUT HAS REACHED FULL DESIGN STRENGTH.

GENERAL LINTEL NOTES:
1. REFER TO PLANS AND LINTEL SCHEDULE FOR LOCATION.
2. MINIMUM BEARING AT EACH END OF LINTEL TO BE 150mm (6").
3. REFER TO DETAIL M01B.

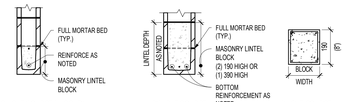
NON-LOAD BEARING BLOCK WALL LINTEL DETAILS — M01B



LINTEL DETAILS

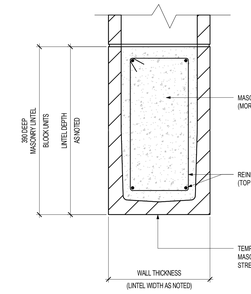


STRUCTURAL STEEL LINTEL DETAILS



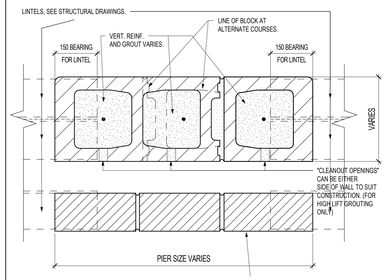
MASONRY AND PRECAST BEAM LINTEL DETAILS

TYPICAL "DOUBLE COURSE" DEPTH REINFORCED MASONRY LINTEL BEAM — M02



NOTE:
1. REFER TO PLANS AND LINTEL SCHEDULE FOR LOCATION.
2. MINIMUM BEARING AT EACH END OF LINTEL BEAM TO BE 150mm (6").
3. MAY USE (2) 190 LINTEL BLOCKS IN LIEU OF 390 WHERE STIRRUPS ARE NOT REQUIRED.

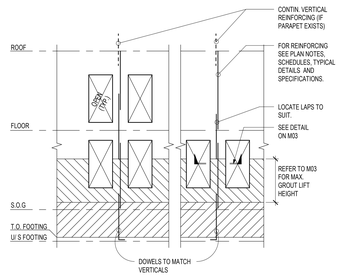
TYPICAL REINFORCED MASONRY WALLS AND PIERS PLAN DETAIL — M03



NOTE:

1. GROUT TO CONFORM TO REQUIREMENTS OF CSA STANDARD A179 CLAUSE 7.2 AND TABLE 7 "FINE GROUT". SLUMP SHALL CONFORM TO THE NOTES ON TABLE 7 AND COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 10 MPa @ 28 DAYS U.N.O.
2. COMPRESSIVE TESTING OF GROUT SHALL BE CARRIED OUT BY THE APPROVED INSPECTION AND TESTING COMPANY IN ACCORDANCE WITH CSA STANDARD A179. PREPARE A MINIMUM 3 TESTS FOR EACH STOREY OF CONSTRUCTION. 1 TEST SHALL COMPRISE OF 3 CYLINDERS. FOR TESTING, 1 AT 7 DAYS AND 2 AT 28 DAYS.
   NOTE: - MORTAR IS NOT ACCEPTABLE FOR USE AS GROUT, AND IF USED PIERS SHALL BE REJECTED AND RE-CONSTRUCTED.
3. ALL CELLS CONTAINING VERTICAL REINFORCING SHALL BE COMPLETELY FILLED WITH GROUT IN LIFTS NOT EXCEEDING 1500mm. IF THE FOLLOWING REQUIREMENTS ARE MET, LIFTS OF UP TO 3000mm MAY BE USED (ALSO KNOWN AS 'HIGH LIFT GROUTING'):
   a. GROUT SHALL BE CONSOLIDATED BY PUDDLING OR VIBRATING DURING POURING. WHERE THE TOTAL GROUT POUR IS GREATER THAN 3000mm, THE GROUT SHALL BE PLACED IN LIFTS NOT EXCEEDING 2000mm.
   b. AT EACH LIFT, "CLEANOUT OPENINGS" SHALL BE PROVIDED AT THE BOTTOMS OF ALL CELLS CONTAINING REINFORCEMENT, BUT NOT SPACED MORE THAN 800mm o/c FOR FULLY GROUTED MASONRY. THE CLEANOUTS SHALL BE INSPECTED BY THE ENGINEER BEFORE BEING SEALED.
4. SEE TYPICAL DETAIL ELEVATION M04.

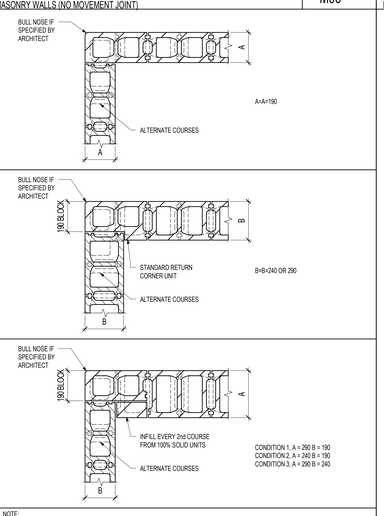
TYPICAL ELEVATION REINFORCED MASONRY WALLS AND PIERS — M04



NOTE:
- PROVIDE MINIMUM CLASS "B" TENSION LAP SPLICES FOR VERTICAL REINFORCING AND HORIZONTAL BOND BEAM REINFORCING:
  - 10M - 450mm (18")
  - 15M - 650mm (2'-2")
  - 20M - 850mm (2'-9")

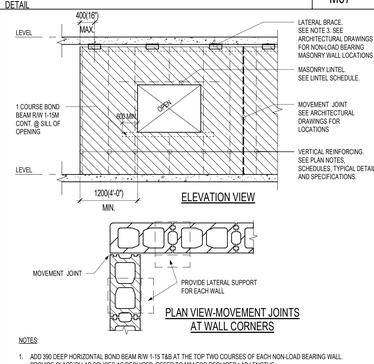
  NOTE: WHERE MORE THAN 1 BAR PER CELL INCREASE LAP LENGTH BY 33%
- LAP ALL HORIZONTAL LADDER TYPE REINFORCING 500mm.
  - ANY CROSSWIRES WITHIN LAP LENGTH SHALL BE REMOVED.
  - LAPS SHALL BE STAGGERED A MINIMUM OF 750mm FROM COURSE TO COURSE.

TYPICAL DETAIL OF CONSTRUCTED CORNERS IN SINGLE WYTHE MASONRY WALLS (NO MOVEMENT JOINT) — M06

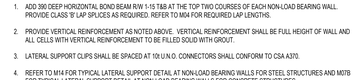


NOTE:
1. PROVIDE PREFABRICATED CORNERS FOR HORIZONTAL JOINT REINFORCING (TYPICAL).
2. REFER TO TYPICAL LOAD BEARING MASONRY NOTES AND TO THE SPECIFICATION FOR MASONRY MATERIALS AND FOR HORIZONTAL JOINT REINFORCING

TYPICAL NON-LOAD BEARING MASONRY WALL REINFORCING SCHEDULE NOTES AND DETAIL — M07



ELEVATION VIEW



PLAN VIEW-MOVEMENT JOINTS AT WALL CORNERS

NOTES:

1. ADD 390 DEEP HORIZONTAL BOND BEAM R/W 1-15 T&B AT THE TOP TWO COURSES OF EACH NON-LOAD BEARING WALL. PROVIDE CLASS 'B' LAP SPLICES AS REQUIRED. REFER TO M04 FOR REQUIRED LAP LENGTHS.
2. PROVIDE VERTICAL REINFORCEMENT AS NOTED ABOVE. VERTICAL REINFORCEMENT SHALL BE FULL HEIGHT OF WALL AND ALL CELLS WITH VERTICAL REINFORCEMENT TO BE FILLED SOLID WITH GROUT.
3. LATERAL SUPPORT CLIPS SHALL BE SPACED AT 10t U/N.O. CONNECTORS SHALL CONFORM TO CSA A370.
4. REFER TO M14 FOR TYPICAL LATERAL SUPPORT DETAIL AT NON-LOAD BEARING WALLS FOR STEEL STRUCTURES AND M07B FOR TYPICAL LATERAL SUPPORT DETAIL AT NON-LOAD BEARING WALLS FOR CONCRETE STRUCTURES.
5. REFER TO TYPICAL DETAIL M07B FOR CONNECTION OF MASONRY WALL ABUTTING CONCRETE OR MASONRY WALL FACING CONCRETE.
6. PROVIDE DOWELS. SIZE AND SPACING TO MATCH VERTICAL WALL REINFORCEMENT. REFER TO M04 FOR REQUIRED LAP LENGTHS.
7. COMPLETELY FILL REINFORCED CELLS WITH GROUT.

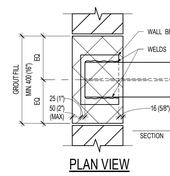
NON LOAD-BEARING MASONRY WALL REINFORCING SCHEDULE — M07A

INTERIOR WALLS

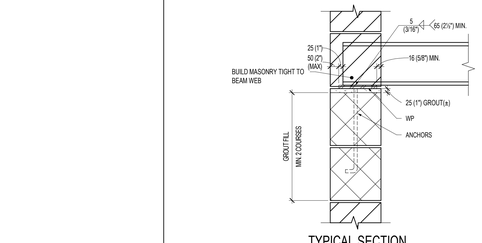
BLOCK	HEIGHT	VERTICAL REINFORCING	HORIZONTAL REINFORCEMENT
140	4200 [15'-9"]	15 @ 800 [2'-8"] o/c	9 GA @ 400mm (1'-4") o/c MAX. "LADDER" TYPE
190	4800 [16'-9"]	15 @ 1000 [3'-3"] o/c	
240	5400 [17'-8"]	20 @ 1000 [3'-3"] o/c	

NOTES:
-ALLOWABLE NON LOAD-BEARING HEIGHTS ARE BASED ON 15MPa NORMAL DENSITY BLOCK w/ TYPE 'S' MORTAR.
-MINIMUM 600MM WIDE PIER BETWEEN ADJACENT OPENINGS. PIER MUST BE CONTINUOUS FROM BASE TO LATERAL SUPPORT POINT AT TOP.
- MAXIMUM AVERAGE OPENING SIZE ON EITHER SIDE OF PIER LIMITED TO 1400mm.
-REINFORCING SCHEDULE APPLIES FOR PARTITIONS WALLS UP TO 100m ABOVE GRADE
-NON LOAD-BEARING WALL REINFORCING DOES NOT APPLY FOR SHAFTS WHERE PRESSURES EXCEED NOTED DIFFERENTIAL PRESSURES NOTED ABOVE.
-IF ANY OF THESE CONDITIONS ARE NOT MET, CONTRACTOR TO PROVIDE ENGINEER STAMPED SHOP DRAWINGS OF REINFORCING FOR CONSULTANT REVIEW
-REFER TO TO M07B FOR LATERAL SUPPORT DETAILS FOR CONCRETE CONSTRUCTION. M14 FOR STEEL CONSTRUCTION. LATERAL SUPPORTS TO BE SPACED AT 10t UNLESS NOTED OTHERWISE

TYPICAL STEEL BEAM BEARING ON MASONRY WALL (PERPENDICULAR) — M08



PLAN VIEW



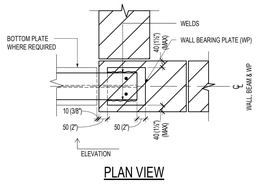
TYPICAL SECTION

NOTE:

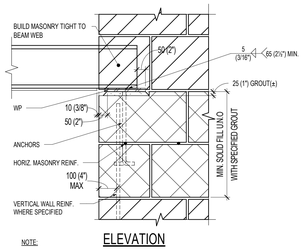
REFER TO TYPICAL DETAILS, TYPICAL NOTES, SPECIFICATION PLANS AND SCHEDULES FOR:

- WP SIZE AND SIZE/NUMBER OF ANCHORS
- VERTICAL WALL REINFORCING
- GROUT MIX AND EXTENT OF GROUT

TYPICAL STEEL BEAM BEARING ON END OR CORNER OF MASONRY WALL (MINIMUM REQUIREMENTS) — M09



PLAN VIEW



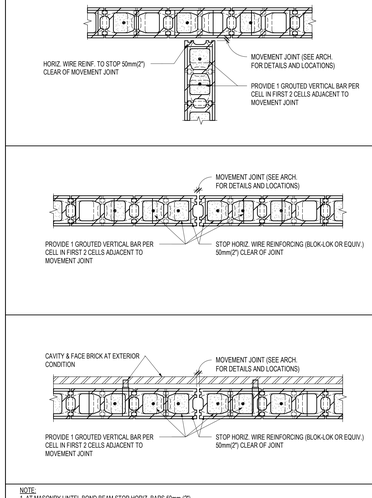
ELEVATION

NOTE:

REFER TO TYPICAL DETAILS, TYPICAL NOTES, SPECIFICATION PLANS AND SCHEDULES FOR:

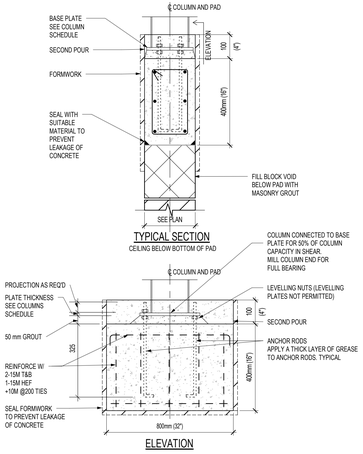
- WP SIZE AND SIZE/NUMBER OF ANCHORS
- VERTICAL WALL REINFORCING
- GROUT MIX AND EXTENT OF GROUT

TYPICAL DETAIL AT MOVEMENT JOINT IN REINFORCED MASONRY WALL — M10



NOTE:
1. AT MASONRY LINTEL BOND BEAM STOP HORIZ. BARS 50mm (2") CLEAR OF MOVEMENT JOINT, UNLESS OTHERWISE NOTED.
2. SEE PLANS AND TYPICAL NOTES FOR VERTICAL REINFORCING AND GROUT

TYPICAL CONCRETE PAD UNDER STEEL COLUMN BEARING ON MASONRY WALL — M11



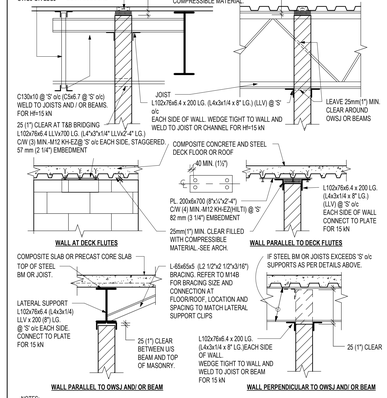
TYPICAL SECTION

ELEVATION

TYPICAL CONCRETE PAD AT COLUMN BEARING ON MASONRY WALL

NOTE:
1. REFER TO PLANS FOR LOCATION OF PADS.
2. CONCRETE STRENGTH 25 MPa (CLASS N) UNLESS NOTED.

TYPICAL LATERAL SUPPORT AT NON-LOAD BEARING MASONRY WALLS — M14A



NOTES:
1. PROVIDE 25mm MIN COMPRESSIBLE MATERIAL BETWEEN TOP OF NON-LOAD BEARING WALL AND UNDERSIDE OF STRUCTURE. TYPICAL UNLESS NOTED OTHERWISE
2. REINFORCED NON-LOAD BEARING MASONRY WALL
   2.1 PROVIDE LATERAL SUPPORT FOR ALL MASONRY WALLS.
   2.2 SPACING OF LATERAL SUPPORTS AS NOTED ON DETAIL M07

NO	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENCED PROFESSIONAL ENGINEER
26-06-02
J. C. GASDIA
100169574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

LEGAL DESCRIPTION:

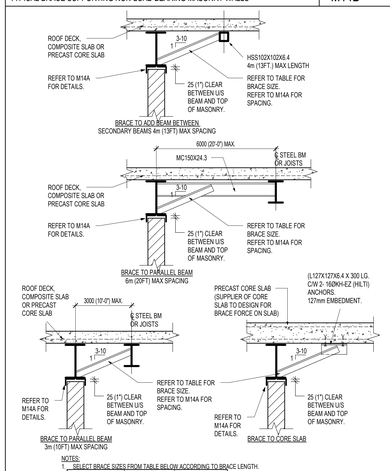
HALTON CATHOLIC DISTRICT SCHOOL BOARD — CDSB

TYPICAL DETAILS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE	1 : 1
PROJECT	2549-01176
DATE	JUNE 2026
DRAWN	AE
DRAWING	S7-03
CHECKED	CG/JG
PRINT DATE	2026-06-05 10:12:54 AM
REVIT FILE	

TYPICAL BRACE SUPPORTING NON-LOAD BEARING MASONRY WALLS — M14B



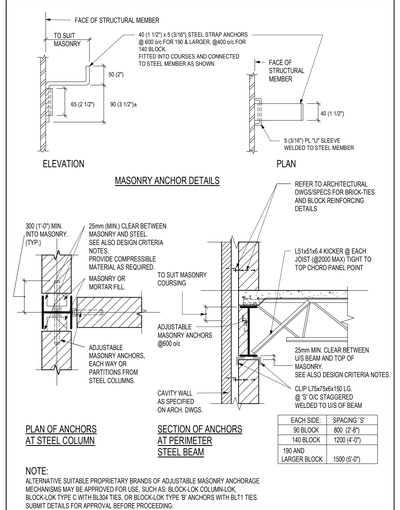
NOTES:

1. SELECT BRACE SIZES FROM TABLE BELOW ACCORDING TO BRACE LENGTH:

BRACING SECTION	MAXIMUM LENGTH	FORCE (T, TF) (kN)
L44x44x4.8	1150 (3'-9")	15
L51x51x4.8	1600 (5'-3")	15
L64x64x4.8	2000 (6'-6")	15
L76x76x4.8	2700 (8'-10")	15
L76x76x4.8	3250 (10'-8")	15

2. MAINTAIN BRACE SLOPE AS PER SKETCH.

ADJUSTABLE MASONRY ANCHORS TO STRUCTURAL STEEL — M15



MASONRY ANCHOR DETAILS

PLAN OF ANCHORS AT STEEL COLUMN

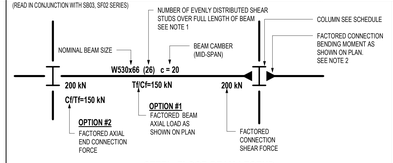
SECTION OF ANCHORS AT PERIMETER STEEL BEAM

EACH SIDE	SPACING 'S'
90 BLOCK	800 (2'-6")
140 BLOCK	1200 (4'-0")
190 AND LARGER BLOCK	1500 (5'-0")

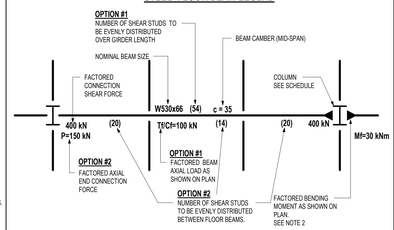
NOTE:
ALTERNATIVE SUITABLE PROPRIETARY BRANDS OF ADJUSTABLE MASONRY ANCHORAGE MECHANISMS MAY BE APPROVED FOR USE, SUCH AS: BLOCK-LOK COLUMN-LOK, BLOCK-LOK TYPE C WITH BLI34 TIES, OR BLOCK-LOK TYPE 'B' ANCHORS WITH BLT1 TIES. SUBMIT DETAILS FOR APPROVAL BEFORE PROCEEDING.

STEEL BEAM AND GIRDER DESIGNATIONS — SB01

(READ IN CONJUNCTION WITH S803, SF02 SERIES)



STEEL FLOOR BEAM LEGEND



STEEL GIRDER BEAM LEGEND

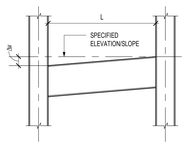
NOTE:
1. REFER TO DETAIL SF02 FOR PLACEMENT OF STUD SHEAR CONNECTORS ON BEAM/GIRDER TOP FLANGES.
2. REFER TO DETAIL SB01 FOR MOMENT CONNECTION REQUIREMENTS.
3. OPTION #2 FOR AXIAL LOAD USED WHERE REACTIONS AT EACH END OF BEAM ARE NOT EQUAL. OPTION #1 USED WHERE AXIAL LOADS ARE EQUAL AT EACH END.

ERECTION TOLERANCES FOR STEEL BEAMS — SB02A

(READ IN CONJUNCTION WITH S802B)

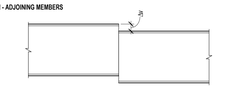
1. **VERTICAL DEVIATION FROM SPECIFIED ELEVATION/SLOPE.**

FLOOR BEAMS:	Δx = ± 10mm (3/8") OR = L/500
MEMBERS WITH ADJUSTABLE CONNECTIONS:	Δx = ± 6mm (1/4") OR = L/1000



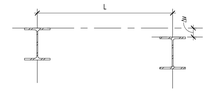
2. **VERTICAL DEVIATION FROM SPECIFIED ELEVATION - ADJOINING MEMBERS**

FLOOR BEAMS:	Δx = ±6mm (1/4")
MEMBERS WITH ADJUSTABLE CONNECTIONS:	Δx = ±2mm (3/32")



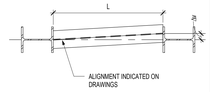
3. **VERTICAL DEVIATION FROM ADJACENT BEAMS**

FLOOR BEAMS:	Δv = L/1000



4. **HORIZONTAL DEVIATION FROM INDICATED POSITION**

FLOOR BEAMS:	ΔH = ±12mm (1/2") OR L/500
SPANDREL BEAMS:	ΔH = ±6mm (1/4") OR L/1000



NOTES

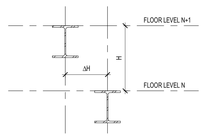
1. TOLERANCES PROVIDED IN THE DETAIL ABOVE SHALL NOT SUPERSEDE THE VALUES INDICATED IN CSA S16 AND REFERENCED DOCUMENTS.

ERECTION TOLERANCES FOR STEEL BEAMS — SB02B

(READ IN CONJUNCTION WITH S802A)

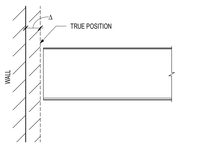
5. HORIZONTAL DEVIATION FROM ADJACENT BEAMS

FOR H < 3000mm (10'-0"):	ΔH = ±5mm (3/16")
FOR H > 3000mm (10'-0"):	ΔH = H/600



6. HORIZONTAL DEVIATION FROM SUPPORT POINT AT VERTICAL WALL

Δ = ±25mm (1")



NOTES

1. TOLERANCES PROVIDED IN THE DETAIL ABOVE SHALL NOT SUPERSEDE THE VALUES INDICATED IN CSA S16 AND REFERENCED DOCUMENTS.
2. FOR ERECTION TOLERANCES OF SPECIAL MEMBERS SUCH AS CRANE GIRDERS, CRANE RAILS AND MONORAIL BEAMS, SEE THE APPROPRIATE CODE RECOMMENDATIONS.
3. DEVIATIONS SHOWN FOR W-SHAPES ALSO APPLY TO BUILT-UP SECTIONS, HOLLOW STRUCTURAL SECTIONS, CHANNEL AND ANGLE SHAPES.
4. ERECTION TOLERANCES ARE TO BE MEASURED IN CALM WEATHER. RECORD AMBIENT TEMPERATURE AT TIME TOLERANCES ARE VERIFIED.

STEEL BEAM AND GIRDER MOMENT CONNECTIONS — SB03

AT GIRDER SUPPORT

AT COLUMN SUPPORT

CANTILEVER OVER GIRDER SUPPORT

NOTE:
1. THE STRUCTURAL STEEL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE FINAL CONNECTION CONFIGURATION, DESIGN AND DETAILING OF THE CONNECTION DETAILED DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW WITH THE SUBMISSION OF THE SHOP DRAWINGS.
2. PROVIDE DECK SUPPORT IN AREA OF MOMENT CONNECTION AS REQUIRED
3. PRE-TENSIONED BOLTS IN SLIP CRITIAL CONNECTION TO DEVELOP FULL MOMENT CAPACITY OF BEAM, UNLESS NOTED OTHERWISE

STEEL BEAM BEARING ON STEEL COLUMN — SB04

COLUMN WEB PERPENDICULAR TO BEAM WEB

COLUMN WEB PARALLEL TO BEAM WEB

COLUMN WEB PERPENDICULAR TO BEAM WEB

NOTES:
1. THE DESIGN OF THE STRUCTURAL STEEL CONNECTIONS ARE THE RESPONSIBILITY OF THE STEEL CONTRACTOR. DESIGN CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE SHOP DRAWINGS FOR REVIEW. ANY ALTERATIONS TO THE BASIC CONFIGURATIONS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL CONSULTANT.
2. PROVIDE SQUARED MILL END OF COLUMNS MEETING CODE REQUIREMENTS FOR TOLERANCE LIMIT.

UNREINFORCED OPENINGS IN STEEL BEAM WEBS — SB06

NOTES:

1. UNREINFORCED CIRCULAR OPENINGS MAY BE PLACED WITHIN HATCHED ZONE WITHOUT AFFECTING THE STRENGTH OF THE BEAM FOR DESIGN PURPOSES PROVIDED:
   A. BEAM SUPPORTS UNIFORMLY DISTRIBUTED LOAD ONLY.
   B. MAX. OPENING SIZE NOT TO EXCEED d/3.
   C. SPACING MUST BE > 2 ½ TIMES THE DIAMETER OF THE LARGER OF ANY TWO ADJACENT OPENINGS, AS SHOWN IN DIAGRAM ABOVE. (D1, D2, D3, D4, D5)
   D. MUST BE CLASS 1 OR CLASS 2 W SECTION BEAMS
2. ALL OPENINGS TO BE SHOWN ON SHOP DRAWINGS SUBMITTED FOR REVIEW.

STEEL COLUMN BEARING ON STEEL BEAM — SC07

COLUMN WEB PARALLEL TO BEAM WEB

COLUMN WEB PERPENDICULAR TO BEAM WEB

NOTES:
1. DETAILS ARE REPRESENTATIVE ONLY. THE DESIGN OF THE STRUCTURAL STEEL CONNECTIONS ARE THE RESPONSIBILITY OF THE STEEL CONTRACTOR. DESIGN CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE SHOP DRAWINGS FOR REVIEW. ANY ALTERATIONS TO THE BASIC CONFIGURATIONS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL CONSULTANT.

OWSJ DESIGNATIONS AND DESIGN INFORMATION — SJ01A

(READ IN CONJUNCTION WITH SF AND SJ SERIES DETAILS)

OWSJ ROOF FRAMING DETAILS — SJ01B

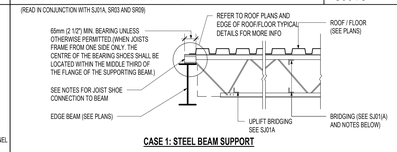
(READ IN CONJUNCTION WITH SJ02)

NOTES

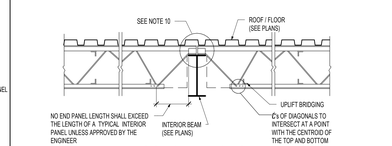
1. THE REPRESENTATIVE BRIDGING SHOWN DOES NOT INCLUDE ERECTION OR CONSTRUCTION BRIDGING WHICH MAY BE REQUIRED BASED ON PROJECT SPECIFIC CONDITIONS.
2. EACH LINE OF BRIDGING SHALL BE ADEQUATELY ANCHORED AT EACH END TO BRACED WALLS OR TO MAIN COMPONENTS OF THE STRUCTURAL FRAME. IF PRACTICABLE, IF NOT PRACTICABLE, DIAGONAL AND HORIZONTAL BRIDGING SHALL BE PROVIDED IN COMBINATION BETWEEN ADJACENT JOISTS NEAR THE ENDS OF BRIDGING LINES.
3. SIZE AND SPACING OF BRIDGING SHALL BE AS REQUIRED BY THE ONTARIO BUILDING CODE (LATEST EDITION). BRIDGING INDICATED ON THE STRUCTURAL DRAWINGS TO BE CONSIDERED AS A REPRESENTATIVE MINIMUM ONLY.
4. BRIDGING SHALL BE COMPLETELY INSTALLED BEFORE ANY CONSTRUCTION LOADS ARE PLACED ON THE JOINTS.
5. ALL BRIDGING SHALL BE ADEQUATELY CONNECTED TO THE JOIST CHORDS BY WELD OR BY APPROVED MECHANICAL MEANS, CAPABLE OF RESISTING AN AXIAL FORCE OF AT LEAST 500 lbs. (2.22 kN), OR AS NOTED IN SECTIONS OR TYPICAL DETAILS.

OWSJ SUPPORTING DECKING — SJ01C

(READ IN CONJUNCTION WITH SJ01A, SR03 AND SR09)



CASE 1: STEEL BEAM SUPPORT

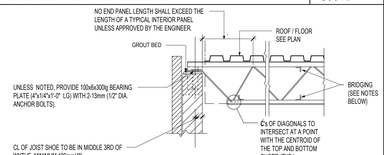


CASE 2: STEEL BEAM SUPPORT

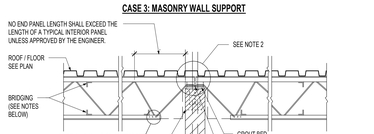
NOTES:
1. FABRICATION AND ERECTION OF O.W.S.J. SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE (LATEST EDITION)
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS WHEN PLACING DECKING OVER O.W.S.J. TO AVOID LATERAL DEFLECTION AND TWISTING OF JOISTS. THIS APPLIES PARTICULARLY TO FREE ENDS OF JOINT RUNS.
3. METAL DECK SHALL BE INSTALLED DIRECTLY ON TOP OF JOISTS WITH FLAT TOP CHORDS ONLY.
4. EACH LINE OF BRIDGING SHALL BE ADEQUATELY ANCHORED AT EACH END TO STURDY WALLS OR TO MAIN COMPONENTS OF THE STRUCTURAL FRAME. IF PRACTICABLE, IF NOT PRACTICABLE, DIAGONAL AND HORIZONTAL BRIDGING SHALL BE PROVIDED IN COMBINATION BETWEEN ADJACENT JOISTS NEAR THE ENDS OF BRIDGING LINES.
5. SIZE AND SPACING OF BRIDGING SHALL BE AS REQUIRED BY THE ONTARIO BUILDING CODE (LATEST EDITION). BRIDGING INDICATED ON THE STRUCTURAL DRAWINGS TO BE CONSIDERED AS A REPRESENTATIVE MINIMUM ONLY.
6. BRIDGING SHALL BE COMPLETELY INSTALLED BEFORE ANY CONSTRUCTION LOADS ARE PLACED ON THE JOINTS.
7. ALL BRIDGING SHALL BE ADEQUATELY CONNECTED TO THE JOIST CHORDS BY WELD OR BY APPROVED MECHANICAL MEANS, CAPABLE OF RESISTING AN AXIAL FORCE OF AT LEAST 500 lbs. (2.22 kN), OR AS NOTED IN SECTIONS OR TYPICAL DETAILS.
8. WHEN BRIDGING IS INTERRUPTED BY OPENINGS THROUGH DECKING OR BY DUCTWORK, PROVIDE A COMBINATION OF HORIZONTAL AND DIAGONAL BRIDGING . (AS NOTE No.5) IN FIRST BAYS BETWEEN JOINTS EACH SIDE OF INTERRUPTION.
9. ALTERNATIVE DETAILS ARE TO BE SUBMITTED FOR COMMENT BEFORE PROCEEDING
10. IN CASE OF UNBALANCED JOIST REACTIONS ON SUPPORTING STRUCTURE (BEAMS, TRUSSES, WALLS) THE JOISTS ARE TO BE DESIGNED AND/OR STAGGERED SO THAT THEIR RESULTANT REACTIONS ARE LOCATED AT THE CENTRELINE OF SUPPORTING STRUCTURE.
11. REFER TO PLANS AND SR09 FOR SHEAR CONNECTION DETAILS WHERE APPLICABLE. ALSO SEE PLANS AND SR03 FOR CHANGE OF DECK DIRECTIONS DETAILS.
12. JOIST SHOES TO BE CONNECTED TO SUPPORTING BEAMS WITH THE FOLLOWING FILLET WELDS:

SUPPORTED AREA	FILLET WELDS
A < 10m² (100ft²)	2-3mm x 25
A > 10m² (100ft²)	2-5mm x 40

OWSJ SUPPORTING DECKING — SJ01D



CASE 3: MASONRY WALL SUPPORT

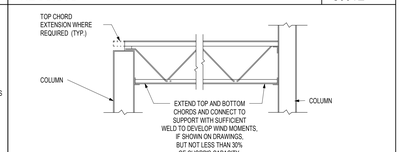


CASE 4: MASONRY WALL SUPPORT

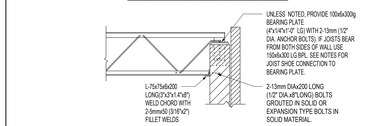
NOTES:
1. AS A MINIMUM AND UNLESS OTHERWISE NOTED, CENTERED UNDER EACH OWSJ BEARING PROVIDE ONE OF:-
   i) 3 COURSES OF BRICKS x 400mm (16") LONG MIN.
   ii) 1 COURSE OF SOLID BLOCK x 400mm (16") LONG MIN.
   iii) 1 COURSE OF GROUT FILLED BLOCK x 400mm (16") LONG MIN.
   iv) 1 COURSE OF GROUT FILLED MASONRY LINTEL BLOCK x 400mm (16") LONG MIN.
   GROUT TO HAVE MIN. 28 DAY COMPRESSIVE STRENGTH OF 20MPa.
2. IN CASE OF UNBALANCED JOIST REACTIONS ON SUPPORTING STRUCTURE (BEAMS, TRUSSES, WALLS) THE JOISTS ARE TO BE DESIGNED AND/OR STAGGERED SO THAT THEIR RESULTANT REACTIONS ARE LOCATED AT THE CENTRELINE OF SUPPORTING STRUCTURE.
3. JOIST SHOES TO BE CONNECTED TO SUPPORTING BEAMS WITH THE FOLLOWING FILLET WELDS:

SUPPORTED AREA	FILLET WELDS
A < 10m² (100ft²)	2-3mm x 25
A > 10m² (100ft²)	2-5mm x 40

TIE JOISTS — SJ01E



TIE JOISTS FOR STEEL STRUCTURES



TIE JOISTS FOR MASONRY STRUCTURES

2 ISSUED FOR TENDER — JUN. 08, 2026
1 ISSUED FOR PERMIT AND COSTING — MAR. 06, 2026
NO. ISSUED / REVISION — DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL BUILDING AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENSED PROFESSIONAL ENGINEER — J. C. GASPLN — 100169574 — PROVINCE OF ONTARIO — 05-05-02

North Oakville #3 CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

LEGAL DESCRIPTION:

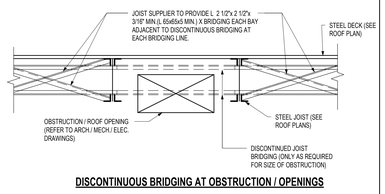
HALTON CATHOLIC DISTRICT SCHOOL BOARD — CDSB

TYPICAL DETAILS

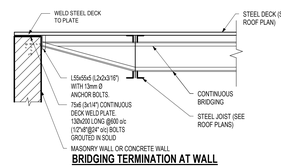
Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

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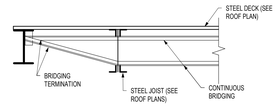
OWSJ BRIDGING DETAILS — SJ02



DISCONTINUOUS BRIDGING AT OBSTRUCTION / OPENINGS



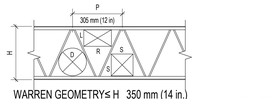
BRIDGING TERMINATION AT WALL



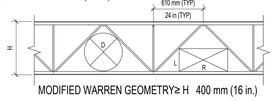
BRIDGING TERMINATION AT BEAM (NOT SUBJECT TO TORSION)

FREE OPENINGS IN STEEL JOISTS (SEE NOTE 1) — SJ03

CONFIGURATION (mm)		OPENING (mm)			
H	P	D	S	L	R
JOIST					
WARREN GEOMETRY					
200	250	110	95	70	150
250	250	150	120	90	182
300	305	190	150	110	232
350	305	220	175	120	258
MODIFIED WARREN GEOMETRY					
400	610	240	220	140	410
450	610	320	265	200	420
500	610	360	290	220	454
550	610	390	315	240	484
600	610	420	340	250	512
650	610	440	350	260	526
700	610	460	375	270	550
750	610	490	395	280	572
800	610	510	410	290	592
900	610	550	440	310	622
1,000	610	580	465	320	646
1,100	650	630	505	340	694
1,200	700	690	555	380	762
1,300	800	750	605	410	838
1,500	900	880	705	480	972
JOIST GIRDER					
750	600	430	345	240	500
900	600	500	400	280	564
1,050	600	560	450	300	616
1,200	600	610	490	330	658
1,350	600	650	530	340	694
1,500	600	680	560	360	726



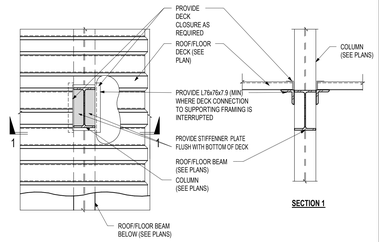
WARREN GEOMETRY≤ H 350 mm (14 in.)

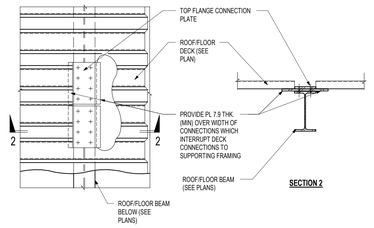


MODIFIED WARREN GEOMETRY≥ H 400 mm (16 in.)

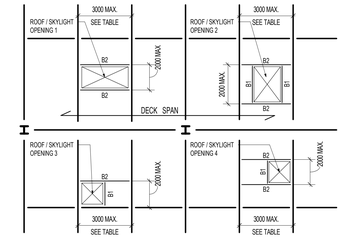
NOTES:
1. THE TABLES ABOVE IS PROVIDED AS **PRELIMINARY** GUIDANCE FOR CONSULTANTS RUNNING SERVICES THROUGH TRUSSES. IF SERVICES ARE TO BE LOCATED WITHIN THE DEPTH OF THE JOISTS THIS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEERING DURING THE DESIGN PHASE AND THE JOIST SUPPLIER DURING SHOP DRAWING REVIEW.

DECK SUPPORT PLATES/ANGLES — SMS01





ROOF FRAMING AT OPENINGS IN ROOF DECK — SR01



TYPICAL ROOF OPENINGS IN DECK

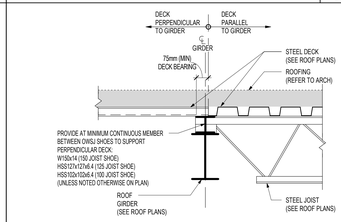
ROOF OPENING				
	BEAM 1 (B1)		BEAM 2 (B2)	
SPAN (mm)	SIZE	SHEAR CONNECTION	SIZE	SHEAR CONNECTION
0-3000	C150x12	20 kN	C150x12	25 kN

TYPICAL SKYLIGHT OPENINGS IN DECK

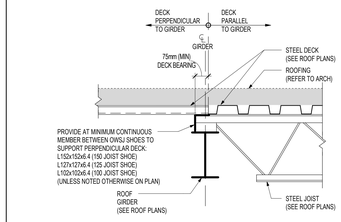
SKYLIGHT OPENING 2				
	BEAM 1 (B1)		BEAM 2 (B2)	
SPAN (mm)	SIZE	SHEAR CONNECTION	SIZE	SHEAR CONNECTION
0-1500	C150x12	10 kN	C150x12	15 kN
1500-3000	C150x12	20 kN	C200x17	25 kN

NOTES:
1. TOP OF ALL TRIMMING STEEL AT UNDERSIDE OF STEEL DECK UNLESS OTHERWISE NOTED.
2. OPENINGS FRAMES ARE DESIGNED FOR THE FOLLOWING LOADS (MAX.)
   DL = 0.50 kPa
   SDL = 0.50 kPa
   SNOW = 2.76 kPa
3. LOCATION OF ALL MECHANICAL UNITS AND OPENINGS THROUGH ROOF IS BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS. THE STRUCTURAL STEEL SUB-CONTRACTOR MUST CONFIRM ALL THESE DIMENSIONS AND SIZES WITH THE MECHANICAL CONTRACTOR.
4. O.W.S.J MUST BE DESIGNED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS.
5. IF ACTUAL LOCATIONS OR DETAILS VARY FROM THOSE SHOWN, THE STRUCTURAL CONSULTANT MUST BE INFORMED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING WITH THE WORK.
6. THE STRUCTURAL STEEL SUB-CONTRACTOR IS TO SUBMIT ERECTION DRAWINGS TO THE MECHANICAL ENGINEER AND/ OR CONTRACTOR FOR APPROVAL OF SIZE AND LOCATION OF OPENINGS FOR MECHANICAL UNITS.

CHANGE OF DECK DIRECTION DETAILS — SR03

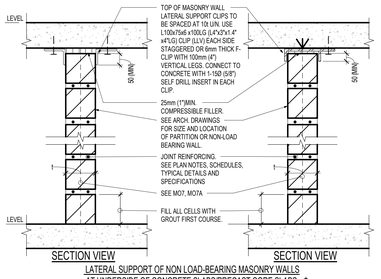


OPTION 1

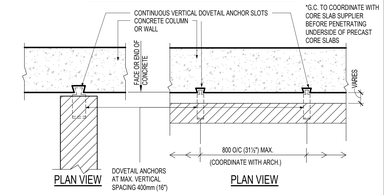


OPTION 2
(NOT TO BE USED WHERE DETAIL SR09 APPLIES OR WHERE SHEAR COLLECTORS ARE SHOWN ON PLAN)

DETAILS OF NON LOAD-BEARING MASONRY WALLS AT CONCRETE SLAB AND WALL — M07B

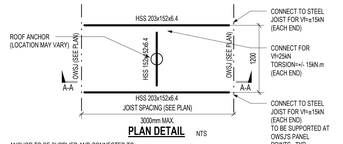


LATERAL SUPPORT OF NON LOAD-BEARING MASONRY WALLS AT UNDERSIDE OF CONCRETE SLABS/PRECAST CORE SLABS *

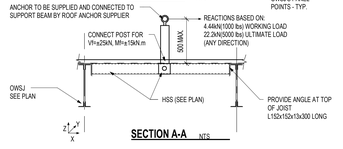


*G.C. TO COORDINATE WITH CORE SLAB SUPPLIER BEFORE PENETRATING UNDERSIDE OF PRECAST CORE SLABS

ANCHOR ASSEMBLY (STEEL JOIST) — SR06A

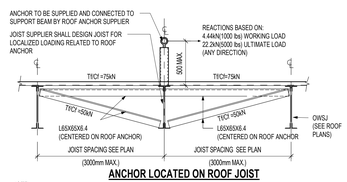


PLAN DETAIL NTS



SECTION A-A NTS

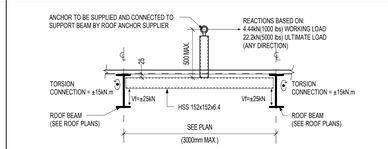
ANCHOR LOCATED BETWEEN ROOF JOIST



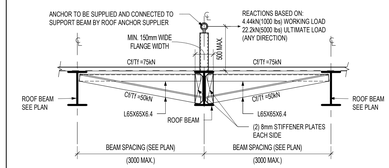
ANCHOR LOCATED ON ROOF JOIST

NOTE:
1. SAFETY ANCHOR LOAD NEED NOT TO BE CONSIDERED TO ACT SIMULTANEOUSLY WITH SNOW LOAD.
2. SEE ARCHITECTURAL AND SUPPLIER SHOP DRAWINGS FOR LOCATIONS.

ANCHOR ASSEMBLY (STEEL BEAM) — SR07A



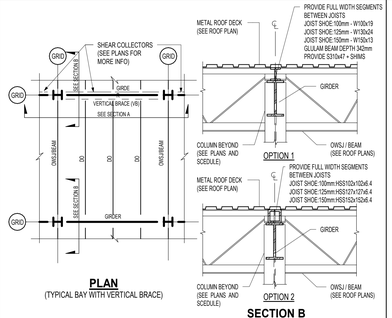
ANCHOR LOCATED BETWEEN ROOF BEAMS NTS



ANCHOR LOCATED ON ROOF BEAM NTS

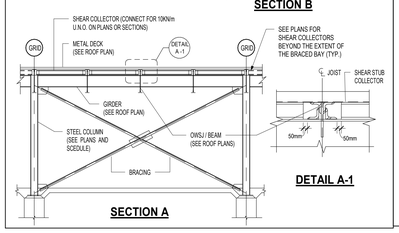
NOTE:
1. SAFETY ANCHOR LOAD NEED NOT TO BE CONSIDERED TO ACT SIMULTANEOUSLY WITH SNOW LOAD.
2. SEE ARCHITECTURAL AND SUPPLIER SHOP DRAWINGS FOR LOCATIONS.

SHEAR STUB COLLECTOR DETAIL — SR09



PLAN
(TYPICAL BAY WITH VERTICAL BRACE)

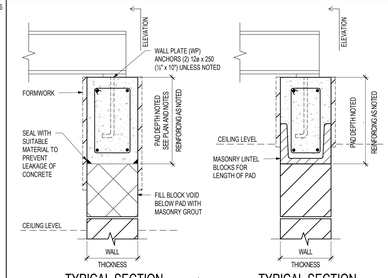
SECTION B

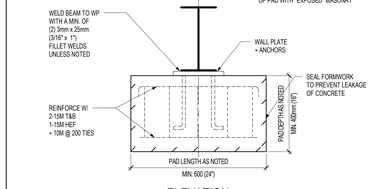


SECTION A

DETAIL A-1

TYPICAL CONCRETE PAD UNDER STEEL BEAM BEARING ON MASONRY WALL — M05





ELEVATION

NOTE:
1. REFER TO PLANS FOR LOCATION OF PADS.
2. CONCRETE STRENGTH 25 MPa (CLASS N) UNLESS NOTED.

NO.	ISSUED / REVISION	DATE
2	ISSUED FOR TENDER	JUN. 08, 2026
1	ISSUED FOR PERMIT AND COSTING	MAR. 06, 2026

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

LICENSED PROFESSIONAL ENGINEER
05-06-26
J. C. GASPAR
100169574
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

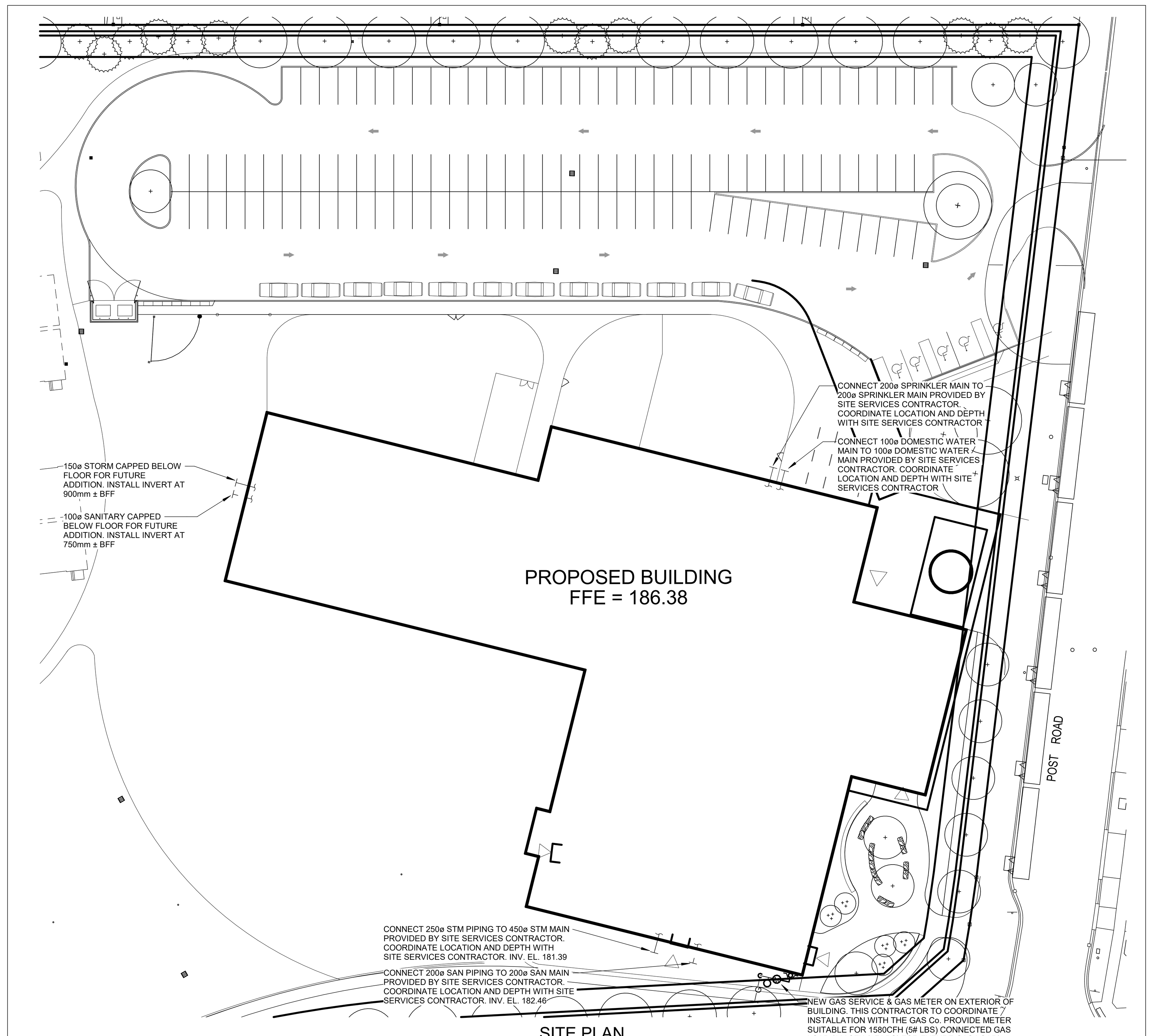
LEGAL DESCRIPTION:

HALTON CATHOLIC DISTRICT SCHOOL BOARD

TYPICAL DETAILS

Salas O'Brien
2235 Sheppard Ave. E.
Suite No. 1100
Toronto, ON M2J 5B5

SCALE 1 : 1	PROJECT 2549-01176
DATE JUNE 2026	
DRAWN AE	DRAWING S7-05
CHECKED CG/JG	
PRINT DATE	2026-06-05 10:12:56 AM
REVIT FILE	



SITE PLAN
SCALE: 1 : 400

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

VAV CONTROL DAMPER SCHEDULE

Item	Type	Airflow Capacity						Size		Heating Data				Acceptable Manufacturer & Model	Remarks
		Design (cfm)	Min. Vent (cfm)	Heating Min. (cfm)	Heating Max. (cfm)	Cooling Min. (cfm)	Cooling Max. (cfm)	Neck (in)	Box (in)	Water Temp. T in (°F)	Water Temp. T out (°F)	Capacity (MBH)	Flow (Usgpm)		
VAV-1.1	SINGLE TERMINAL CONTROL BOX	200	80	120	160	60	260	6	8	150	120	6.5	0.43	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-2.1	SINGLE TERMINAL CONTROL BOX	200	80	120	160	60	260	6	8	150	120	6.5	0.43	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.1	SINGLE TERMINAL CONTROL BOX	260	104	156	208	78	338	6	8	150	120	8.4	0.56	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.2	SINGLE TERMINAL CONTROL BOX	100	40	60	80	30	130	6	6	150	120	3.2	0.22	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.3	SINGLE TERMINAL CONTROL BOX	300	120	180	240	90	390	6	8	150	120	9.7	0.65	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.4	SINGLE TERMINAL CONTROL BOX	400	160	240	320	120	520	8	10	150	120	13.0	0.86	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.5	SINGLE TERMINAL CONTROL BOX	750	300	450	600	225	975	10	12	150	120	24.3	1.62	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.6	SINGLE TERMINAL CONTROL BOX	200	80	120	160	60	260	6	8	150	120	6.5	0.43	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.7	SINGLE TERMINAL CONTROL BOX	300	120	180	240	90	390	6	8	150	120	9.7	0.65	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.8	SINGLE TERMINAL CONTROL BOX	300	120	180	240	90	390	6	8	150	120	9.7	0.65	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.9	SINGLE TERMINAL CONTROL BOX	200	80	120	160	60	260	6	8	150	120	6.5	0.43	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-4.10	SINGLE TERMINAL CONTROL BOX	150	60	90	120	45	195	6	8	150	120	4.9	0.32	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.1	SINGLE TERMINAL CONTROL BOX	460	184	276	368	138	598	8	10	150	120	14.9	0.99	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.2	SINGLE TERMINAL CONTROL BOX	900	360	540	720	270	1170	10	12	150	120	29.2	1.94	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.3	SINGLE TERMINAL CONTROL BOX	150	60	90	120	45	195	6	8	150	120	4.9	0.32	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.4	SINGLE TERMINAL CONTROL BOX	950	380	570	760	285	1235	10	12	150	120	30.8	2.05	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.5	SINGLE TERMINAL CONTROL BOX	200	80	120	160	60	260	6	8	150	120	6.5	0.43	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.6	SINGLE TERMINAL CONTROL BOX	50	20	30	40	15	65	6	6	150	120	1.6	0.11	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.7	SINGLE TERMINAL CONTROL BOX	900	360	540	720	270	1170	10	12	150	120	29.2	1.94	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.8	SINGLE TERMINAL CONTROL BOX	1100	440	660	880	330	1430	12	14	150	120	35.6	2.38	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 60" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.9	SINGLE TERMINAL CONTROL BOX	200	80	120	160	60	260	6	8	150	120	6.5	0.43	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.10	SINGLE TERMINAL CONTROL BOX	230	92	138	184	69	299	6	8	150	120	7.5	0.50	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.11	SINGLE TERMINAL CONTROL BOX	1100	440	660	880	330	1430	12	14	150	120	35.6	2.38	KRUGER: LMHS-LC EH PRICE: SDV-0S	C/W 60" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.
VAV-5.12	SINGLE TERMINAL CONTROL BOX	150	60	90	120	45	195	6	8	150	120	4.9	0.32	KRUGER: LMHS-LC EH PRICE: SDV	C/W 36" ATTENUATOR, 2 ROW COIL, & 2 ACCESS DOORS C/W CAM LATCHES.

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

CHILLER SCHEDULE

Item	Type	Cooling Capacity (tons)	Refrigerant Type	Evaporator Flow (gpm)	Evaporator EWT (°F)	Evaporator LWT (°F)	Evaporator Pressure Drop (ft)	Condensor Type	Condensor EAT (°F)	Electrical Voltage	Electrical MCA	Electrical MOCP	Acceptable Manufacturer & Model	Remarks
CH-1	OUTDOOR CHILLER	126.7	R410A	333	54	44	26.1	AIR COOLED DX	95	575/3/60	244	250	DAIKIN AGZ130E	C/W FACTORY MTD STRAINER. UNIT TO BE SUITABLE FOR 40% PROPYLENE GLYCOL

AIR HANDLING UNIT SCHEDULE

*ESP IS EXTERNAL TO THE CABINET

REVISED: mmm/dd/yyyy

SENT TO ENG AIR: mmm dd/yyyy

INCREASE WEIGHT INDOOR 1.25 OUTDOOR 1.5

Item	Type	Supply Air Fan Data Service	Supply Capacity cfm	Supply Size hp	Supply Drive	Supply ESP in wc	Return Air Fan Data Capacity cfm	Return Size hp	Return Drive	Return ESP in wc	Outdoor Air cfm	Electrical Data Voltage	MCA	MOCP
MUA-1	BUILT-UP INDOOR AIR HANDLING UNIT	CLASSROOMS	15,925	20	VFD	2.0	11,010	10	VFD	2.0	15,925	575/3/60	42	50

Item	COOLING Medium	Coil Type	Sens.Cap MBH	Total Cap. MBH	EWT °F	LWT °F	Rows Fins/in.	Fluid gpm	Fluid PD. in.	Ent Air db/wb	LVG Air db/wb	Face Vel. fpm	PD. Air in.
MUA-1	40% GLYCOL	CHILLED WATER	449.42	676.06	42	52	8/10x2	147.86	141.6	80/68	55/55	399	0.96

Item	HEATING COIL DATA Medium	Coil Type	Sens Cap. MBH	EWT °F	LWT °F	Rows Fins/in.	Fluid gpm	Fluid PD. in.	Ent Air °F db	LVG Air °F db	Face Vel. fpm	Air PD. in.
MUA-1	40% GLYCOL	HOT WATER	1812.69	140	120	4/8x2	194.68	90.36	-10	95	399	0.19

Item	HEAT RECOVERY Type	Model	Heating Capacity (MBH) @ -10° db	Cooling Capacity (MBH) @ 86° db/74° wb	PD. Air in.	Velocity	Manufacturer	Weight (lbs) (approx.)	Remarks
MUA-1	WHEEL	HPC-2000-T20	945	349	1.14	958	HAAKON	19,000±	C/W MOTORS RATED FOR VFD, 8" HIGH BASE. MERV 13 FILTERS

4-PIPE FAN COIL SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)

Item	Type	Capacity cfm	SP in. wc	Heating Medium	Coil Rows	EWT °F	LWT °F	EAT °F	LAT °F	Capacity MBH	GPM	Cooling Medium	Coil Rows	EWT °F	LWT °F	EAT °F	LAT °F	Capacity MBH	GPM	Electrical Voltage	Size hp	MCA	MOCP	Manufacturer & Model	Remarks
FC-A	FAN COIL	200	0.5	WATER	1	150	130	75	96.2	12.2	1.2	WATER	4	45	55	75	53.7	13.4	2.7	208/1/60	1/4	2.9	15	DAIKIN FCHH206	C/W ECM MOTOR & MERV8 FILTER
FC-B	FAN COIL	450	0.5	WATER	1	150	130	75	96.2	12.2	1.2	WATER	3	45	55	75	53.7	11.4	2.3	208/1/60	1/4	2.9	15	DAIKIN FCHH206	C/W ECM MOTOR & MERV8 FILTER
FC-C	FAN COIL	500	0.5	WATER	1	150	130	75	105.1	27.3	2.7	WATER	3	45	55	75	62.5	19.8	4.0	208/1/60	(2) 1/4	5.8	15	DAIKIN FCHH210	C/W ECM MOTOR & MERV8 FILTER
FC-D	FAN COIL	600	0.5	WATER	1	150	130	75	104.4	34.7	3.5	WATER	3	45	55	75	54.6	26.3	5.3	208/1/60	(2) 1/4	5.8	15	DAIKIN FCHH212	C/W ECM MOTOR & MERV8 FILTER
FC-E	FAN COIL	1000	0.5	WATER	2	150	130	75	104.4	34.7	3.5	WATER	3	45	55	75	62.5	26.3	5.3	208/1/60	(2) 1/4	5.8	15	DAIKIN FCHH212	C/W ECM MOTOR & MERV8 FILTER

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

FAN SCHEDULE

Item	Type	Capacity (cfm)	ESP (in wc)	Fan Speed (rpm)	Motor hp	Motor Voltage	Acceptable Manufacturer	Remarks
BF-1	CIRCULATING FAN	-	-	-	FHP	208/1/60	BIG ASS FANS POWERFOIL D	C/W REMOTE CONTROL PANEL, OPTIONAL COLOUR SELECTED BY ARCHITECT (PROVIDE FOUR DIFFERENT COLOUR OPTIONS). FOR SUPPORT ROD HEIGHT REFER TO PLANS. TURN OVER REMOTE FAN SPEED CONTROLLER TO ELECTRICAL CONTRACTOR TO WIRE
EF-1	CEILING MOUNTED EXHAUST	100	0.125	940	FHP	120/1/60	BROAN L100	C/W VIBRATION ISOLATION HANGERS & SPEED CONTROLLER. FOR NUMBER & LOCATION OF FANS, REFER TO PLAN
EF-2	ROOF MOUNTED EXHAUST	600	0.375	1550	FHP	120/1/60	GREENHECK GB091	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, SPEED CONTROLLER, DOWN DISCHARGE, CENTRIFUGAL BACKWARD INCLINED FAN, GALV, BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, BACKDRAFT DAMPER, DVR BY BAS CONTRACTOR
EF-3	CEILING MOUNTED EXHAUST	700	0.25	1550	FHP	120/1/60	BROAN L700	C/W VIBRATION ISOLATION HANGERS & SPEED CONTROLLER. REVERSE ACTING THERMOSTAT, DVR BY BAS CONTRACTOR
EF-4	CEILING MOUNTED EXHAUST	400	0.25	1050	FHP	120/1/60	BROAN L400	C/W VIBRATION ISOLATION HANGERS & SPEED CONTROLLER. REVERSE ACTING THERMOSTAT, DVR BY BAS CONTRACTOR. REFER TO PLAN FOR NUMBER & LOCATIONS
EF-5	INLINE DUCT MTD. DRYER BOOSER FAN	150	0.2	2500	FHP	120/1/60	REVERSOMATIC TLD200	C/W DRYER AMP SENSOR FAN CONTROL (MODEL DAS200). INSTALLED BY DIVISION 26. REFER TO PLAN FOR NUMBER & LOCATIONS
EF-6	ROOF MOUNTED EXHAUST	400	0.5	1550	FHP	120/1/60	GREENHECK GB091	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, SPEED CONTROLLER, DOWN DISCHARGE, CENTRIFUGAL BACKWARD INCLINED FAN, GALV, BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, BACKDRAFT DAMPER, DVR BY BAS CONTRACTOR
EF-7	ROOF MOUNTED EXHAUST	500	0.375	1550	FHP	120/1/60	GREENHECK GB091	C/W 24" HIGH ROOF CURB, DVR BY BAS CONTRACTOR
EF-8	SIDEWALL EXHAUST FAN	1000	0.15	1050	1/4	120/1/60	GREENHECK SE1-12	STEEL PANEL FRAME/HOUSING, STEEL FABRICATED PROPLELER BLADES, SPEED CONTROLLER, DIRECT DRIVE AXIAL FAN, C/W BACKDRAFT DAMPER, WALL COLLAR, MOTOR SIDE GUARD, DVR BY BAS CONTRACTOR
EF-9	ROOF MOUNTED EXHAUST	3150	0.5	1050	3/4HP	208/3/60	GREENHECK GB180	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, SPEED CONTROLLER, DOWN DISCHARGE, CENTRIFUGAL BACKWARD INCLINED FAN, GALV, BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, BACKDRAFT DAMPER
SF-1	SIDEWALL EXHAUST FAN	1000	0.15	1050	1/4	120/1/60	GREENHECK SS1-12	STEEL PANEL FRAME/HOUSING, STEEL FABRICATED PROPLELER BLADES, SPEED CONTROLLER, DIRECT DRIVE AXIAL FAN, C/W BACKDRAFT DAMPER, WALL COLLAR, MOTOR SIDE GUARD, DVR BY BAS CONTRACTOR

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

HEATING COMPONENT SCHEDULE

Item	Type	Size	Capacity (MBH)	EWT (°F)	LWT (°F)	EAT (°F)	Acceptable Manufacturer & Model	Remarks
H-1	RADIATION	AS NOTED	AS NOTED	150	130	70	ENG AIR WF-2A-FS	2 ROW, FREE STANDING 8x5.5" CABINET, TOP AT 12" AFF
H-2	RADIATION	AS NOTED	AS NOTED	150	130	70	ENG AIR WF-1B	18" HIGH, SLOPED TOP & BOTTOM FOR MOUNTING HIGH ON WALL
H-3	RADIATION	AS NOTED	AS NOTED	150	130	70	ENG AIR ELEMENT ONLY	EXPOSED FIN WITHOUT ENCLOSURE MOUNTED IN MILLWORK CHASE COMPLETE WITH GRILLE IN TOE SPACE AND TOP OF MILLWORK
H-4	CONVECTOR	AS NOTED	AS NOTED	150	130	70	ENG AIR C-3W	16 ga. STEEL CABINET WITH ALL MOUNTING HARDWARE. ELEMENT TO BE 4x4 ALUMINUM FINS ON 1/2ø COPPER TUBE WITH 50 FINS/FT. PROVIDE STAMPED GRILLES ON FRONT INLET & OUTLET. SURVACE MOUNTED ON WALL WITH TOP OF UNIT AT42" AFF. C/W MANUAL DAMPER
H-5	CABINET UNIT HEATER	AS NOTED	AS NOTED	150	130	70	ENG AIR CUH SERIES	16 ga. STEEL CABINET WITH ROUNDED CORNERS, REMOVABLE PANELS, ALUMINUM FIN COIL, 3-SPEED DIRECT DRIVE DOUBLE WIDTH CENTRIFUGAL FANS, AND WASHABLE FILTER. STAMPED GRILLES ON FRONT INLET & OUTLET. SEMI RECESSEDIN CEILING WITH TRIM COLLAR
H-6	CABINET UNIT HEATER	AS NOTED	AS NOTED	150	130	70	ENG AIR CUH SERIES	16 ga. STEEL CABINET WITH ROUNDED CORNERS, REMOVABLE PANELS, ALUMINUM FIN COIL, 3-SPEED DIRECT DRIVE DOUBLE WIDTH CENTRIFUGAL FANS, AND WASHABLE FILTER. STAMPED GRILLES ON FRONT INLET & OUTLET. SEMI RECESSEDIN CEILING WITH TRIM COLLAR
H-7	HORIZONTAL UNIT HEATER	AS NOTED	AS NOTED	150	130	70	ENG AIR H HERIES	HORIZONTAL, HUNG, 16 ga. STEEL CABINET WITH ROUNDED CORNERS, AND ALUMINUM FIN COIL, DIRECT DRIVE PROPELLER TYPE FAN WITH FAN GUARD, AND ADJUSTABLE DIRECTIONAL DISCHARGE LOUVRE BLADES
H-8	RADIANT CEILING PANEL	AS NOTED	AS NOTED	150	130	70	ENG AIR AIRTEX HEF-2	EXTRUDED ALUMINUM PANEL WITH EXPOSED TEXTURED FACE AND CONTINOUS ALUMINU SADDLES ON BACK TO HOLD 1/2"ø COPPER TUBING BONDED TO SADDLE. PANEL FINISH COMPLETED IN FACTORY (NO FIELD APPLIED PAINT). PANEL SUITABLE FOR T-BAR INSTALLATION. C/W 2" INSULATION ABOVE. PROVIDE MINIMUM 8 ROWS

BOILER SCHEDULE

Item	Type	Input (MBH)	Output (MBH)	Flue Vent Dia. (in.)	Voltage	Acceptable Manufacturer & Model	Remarks
B-1	HEATING WATER BOILER	1,750,000	1,683,500	200	120/1/60	LOCHINVAR CREST FBN1751	C/W CONDENSATE NEUTRALIZER KIT, MINIMUM 25:1 TURNDOWN RATIO, 96% THERMAL EFFICIENCY, COMBUSTION AIR KIT, FLOW SWITCH, LOW WATER CUT-OFF, AND PRESSURE RELIEF VALVE
B-2	HEATING WATER BOILER	1,750,000	1,683,500	200	120/1/60	LOCHINVAR CREST FBN1751	C/W CONDENSATE NEUTRALIZER KIT, MINIMUM 25:1 TURNDOWN RATIO, 96% THERMAL EFFICIENCY, COMBUSTION AIR KIT, FLOW SWITCH, LOW WATER CUT-OFF, AND PRESSURE RELIEF VALVE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

PUMP SCHEDULE

Item	Type	Capacity (Usgpm)	Head (ft)	Size (hp)	Speed (rpm)	Acceptable Manufacturer	Voltage	Remarks
BP-1	BOILER PUMP #1	168	30	2	1800	BELL & GOSSETT e80 3x3x7C	575/3/60	BAS TO WIRE PUMP CONTROL THROUGH BOILER
BP-2	BOILER PUMP #2	168	30	2	1800	BELL & GOSSETT e80 3x3x7C	575/3/60	BAS TO WIRE PUMP CONTROL THROUGH BOILER
C-1	MAIN HEATING CIRCULATION PUMP	370	75	15	1800	BELL & GOSSETT e80-SC 4x4x9.5B	575/3/60	C/W VIBRATION ISOLATION BASE & MOTOR SUITABLE FOR REMOTE VFD
C-2	MAIN HEATING CIRCULATION PUMP	370	75	15	1800	BELL & GOSSETT e80-SC 4x4x9.5B	575/3/60	C/W VIBRATION ISOLATION BASE & MOTOR SUITABLE FOR REMOTE VFD
C-3	GLYCOL HEATING PUMP	145	40	3	1800	BELL & GOSSETT e80-SC 3x3x7C	575/3/60	C/W VIBRATION ISOLATION BASE & MOTOR SUITABLE FOR REMOTE VFD. SUITABLE FOR 50% GLYCOL
C-4	GLYCOL HEATING PUMP	145	40	3	1800	BELL & GOSSETT e80-SC 3x3x7C	575/3/60	C/W VIBRATION ISOLATION BASE & MOTOR SUITABLE FOR REMOTE VFD. SUITABLE FOR 50% GLYCOL
C-5	MAIN CHILLED WATER PUMPS	353	75	15	1800	BELL & GOSSETT e80-SC 4x4x9.5B	575/3/60	C/W VIBRATION ISOLATION BASE & MOTOR SUITABLE FOR REMOTE VFD
C-6	MAIN CHILLED WATER PUMPS	353	75	15	1800	BELL & GOSSETT e80-SC 4x4x9.5B	575/3/60	C/W VIBRATION ISOLATION BASE & MOTOR SUITABLE FOR REMOTE VFD
C-7	CHILLED GLYCOL PUMP	333	60	10	1760	BELL & GOSSETT e80-SC 4x4x9.5B	575/3/60	C/W VIBRATION ISOLATION BASE & MOTOR SUITABLE FOR REMOTE VFD. SUITABLE FOR 50% GLYCOL
C-8	CHILLED GLYCOL PUMP	333	60	10	1760	BELL & GOSSETT e80-SC 4x4x9.5B	575/3/60	C/W VIBRATION ISOLATION BASE & MOTOR SUITABLE FOR REMOTE VFD. SUITABLE FOR 50% GLYCOL

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

PACKAGED HVAC UNIT SCHEDULE

Item	Type	Nominal Capacity tons	cfm	Heat (MBH)	Cool (MBH)	ESP (in wc)	Motor (hp)	Electrical Data Voltage	MCA	MOCP	Acceptable Manufacturer & Model	Remarks
HVAC-1	PACKAGED ROOFTOP HVAC UNIT	12.5	5,000	250	140.2	1.8	4.60	575/3/60	28.0	35	TRANE YSK150AWSAH	C/W 600mm HIGH ROOF CURB, VIBRATION ISOLATION, S.S. VENT EXTENSION, MULTI SPEED SUPPLY FAN, DOWN DISCHARGE & RETURN
HVAC-2	PACKAGED ROOFTOP HVAC UNIT	12.5	5,000	250	140.2	1.8	4.60	575/3/60	28.0	35	TRANE YSK150AWSAH	C/W 600mm HIGH ROOF CURB, VIBRATION ISOLATION, S.S. VENT EXTENSION, 2 SPEED SUPPLY FAN, DOWN DISCHARGE & RETURN
HVAC-3	PACKAGED ROOFTOP HVAC UNIT	10.0	4,000	240	119.5	1.5	3.00	575/3/60	26.0	35	TRANE YSK120AWSAH	C/W 600mm HIGH ROOF CURB, VIBRATION ISOLATION, S.S. VENT EXTENSION, 2 SPEED SUPPLY FAN, DOWN DISCHARGE & RETURN
HVAC-4	PACKAGED ROOFTOP HVAC UNIT	6.0	2,690	150	80.7	1.4	3.00	575/3/60	20.0	25	TRANE YSK072AWSAH	C/W 600mm HIGH ROOF CURB, VIBRATION ISOLATION, S.S. VENT EXTENSION, VAV VARIABLE SPEED SUPPLY FAN, DOWN DISCHARGE & RETURN
HVAC-5	PACKAGED ROOFTOP HVAC UNIT	15.0	6,390	400	180	1.7	3.00	575/3/60	34.0	45	TRANE YSK180AWSBH	C/W 600mm HIGH ROOF CURB, VIBRATION ISOLATION, S.S. VENT EXTENSION, VAV VARIABLE SPEED SUPPLY FAN, DOWN DISCHARGE & RETURN

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

GRILLE SCHEDULE

Item	Type	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
D1	SQUARE CEILING DIFFUSER	YES	NO	KRUEGER 1400A	4 CONE, STEEL, SLIDING ADJUSTMENT NOT ACCEPTABLE
D2	ROUND CEILING DIFFUSER	YES	NO	KRUEGER RA2	4 CONE, STEEL, C/W SAFETY CHAINS, SLIDING ADJUSTMENT NOT ACCEPTABLE
D3	ROUND DIFFUSER (EXPOSED)	YES	NO	KRUEGER RA2	4 CONE, STEEL, C/W SAFETY CHAINS & DIFFUSER WIRE GUARD, SLIDING ADJUSTMENT NOT ACCEPTABLE
D4	LINEAR DIFFUSER	NO	NO	KRUEGER 1900	C/W 4 SLOT, AND INSULATED PLENUM SUITABLE FOR DRYWALL. PROVIDE CONTINUOUS GRILLE WHERE NOTED
D5	DIRECTIONAL CEILING DIFFUSER (3 WAY)	YES	NO	KRUEGER SHPC	STEEL, 3-WAY AS INDICATED. SUITABLE FOR T-BAR AND DRYWALL INSTALLATIONS
D6	LINEAR BAR	NO	NO	KRUEGER 1900	ALUMINUM LINEAR SUPPLY, 25mm SLOTS, SUITABLE FOR DUCT MOUNTING
R1	CEILING RETURN GRILLE (NON-DUCTED)	NO	NO	KRUEGER EG5	C/W CHANNEL FRAME
R2	CEILING RETURN GRILLE (DUCTED)	NO	NO	KRUEGER EGC5	C/W SCREWED FASTENING
R3	SIDEWALL RETURN GRILLE	NO	NO	KRUEGER S85	C/W SCREWED FASTENING
R4	HEAVY DUTY SIDEWALL RETURN GRILLE	NO	NO	KRUEGER S480	C/W SCREWED FASTENING
R5	TOE SPACE GRILLE	NO	NO	KRUEGER1380	PUNCHED STEEL AT 25mm x 25mm (1" x 1") SPACING WITH 15mm x 15mm (1/2" x 1/2") HOLE. SCREW FASTENING AND FINISH...
R6	CEILING RETURN GRILLE (NON-DUCTED)	NO	NO	KRUEGER EG5	C/W CHANNEL FRAME
S1	LINEAR BAR	NO	NO	KRUEGER 1850	FIXED BLADE 15º PATTERN, 15mm (1/2") SPACING, NARROW BORDER & SCREWED FASTENING
S2	SIDEWALL SUPPLY	NO	NO	KRUEGER AF880	C/W SCREWED FASTENING, DOUBLE DEFLECTION, STEEL, 1/2" BLADE SPACING C/W AIR EXTRACTOR
S3	BAR GRILLE	NO	NO	KRUEGER 1850	FIXED BLADE 0º PATTERN, 15mm (1/2") SPACING, NARROW BORDER & SCREWED FASTENING

ERV SCHEDULE

Item	Type	Service	Supply Air CFM	Supply ESP w.g.	Supply Fan hp	Exhaust Air CFM	Exhaust ESP w.g.	Exhaust Fan hp	Exhaust Summer DB	Exhaust Summer WB	Exhaust Winter DB	Exhaust Winter WB	Air Temp Off Heat Exchanger Summer DB	Summer WB	Winter DB	Winter WB	EATR	OACF	Electrical MCA	MOCP	Voltage	Manufacturer	Model	Unit Weight lbs	Remarks
ERV-1	EXTERIOR ENERGY RECOVERY VENTILATOR	HVAC-5	2400	0.35	1.5	2400	1.5	3.0	75	63	70	58	77.5	65.6	56.4	49	3.40	1.10	21.4	25	575/3/60	ALDES	PW40e	1600±	C/W 600mm HIGH INSULATED ROOF CURB. ERV SUITABLE FOR 2-SPEED OPERATION. MIN. FLOW = 1050cfm

WATER HEATER SCHEDULE

Item	Type	Input Capacity	Input Medium	Water Side Storage Litres	Water Side Recovery l/h	Manufacturer & Model	Remarks
WH-1	DOMESTIC WATER HEATER	199 MBH	N. Gas	379	1112 @ 80°F RISE	A.O. SMITH CYCLONE Mxi-199MBH	HIGH EFFICIENCY, 120/1/60, fhp
WH-2	DOMESTIC WATER HEATER	120 MBH	N. Gas	227	654 @ 80°F RISE	A.O. SMITH CYCLONE Mxi-120MBH	HIGH EFFICIENCY, 120/1/60, fhp

SPLIT AIR CONDITIONING UNIT SCHEDULE

Item	Type	Supply Air Data Capacity Tons	Size bhp	Refrig.	Unit Weight lbs	MCA	MOCP	Voltage	Manufacturer & Model	Item	Type	Unit Weight lbs	MCA	MOCP	Voltage	Manufacturer & Model
AC-1	WALL MOUNTED AC UNIT	1	Fhp	R410A	31±	1	15	208/1/60	LG LS120HSV4	CU-1	CONDENSING UNIT	430±	10	15	208/1/60	LG LS120HSV4
AC-2	WALL MOUNTED AC UNIT	1	Fhp	R410A	31±	1	15	208/1/60	LG LS120HSV4	CU-2	CONDENSING UNIT	430±	10	15	208/1/60	LG LS120HSV4
AC-3	WALL MOUNTED AC UNIT	1	Fhp	R410A	31±	1	15	208/1/60	LG LS120HSV4	CU-3	CONDENSING UNIT	430±	10	15	208/1/60	LG LS120HSV4

GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- ALL PIPING, DUCTWORK, AND EQUIPMENT IS TO BE RESTRAINED TO MEET SEISMIC CODE REQUIREMENTS. SUPPLY AND INSTALL ALL SEISMIC RESTRAINT MATERIALS TO MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO SPECIFICATION.
- CONTRACTOR TO INCLUDE COST FOR CONSULTANT TO COMPLETE ELECTRONIC CAD AS-BUILT DWGS (ALL PAGES). REFER TO SPEC SECTION 20 02 51 - RECORD DWGS.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. COORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MIN 14'-0" FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWSJ.
- COORDINATE WITH THE GENERAL CONTRACTOR ANY OWSJ BRIDGING/CROSS BRACING RELOCATION OR REMOVAL/REPLACEMENT REQUIRED FOR INSTALLATION OF DUCTWORK.
- UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:
  - POTABLE WATER TEST (SEE SPEC 22 11 16 PART 3)
  - BACKFLOW TEST CERTIFICATE(S) FOR ALL TESTABLE DEVICES
  - COPY OF MANDATORY TSSA/CSA-B149 GAS PRESSURE TEST TAG
  - NFPA-13 SPRINKLER CONTRACTOR'S MATERIAL & TEST CERTIFICATE
  - FIRE PROTECTION ENGINEER'S INSPECTION/CONFORMANCE LETTER
  - TSSA CERTIFICATE OF AUTHORIZATION FOR SPLIT REFRIGERATION SYSTEMS (EXCEEDING 3 OR 5 TONS)
  - TSSA REPORT FOR NEW BOILER/PRESSURE VESSEL INSTALLATION

  ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

MECHANICAL LEGEND

Item	Description	Item	Description
	FLOW DIRECTION	BV	BALANCING VALVE
	DOMESTIC COLD WATER PIPING	S	SUPERVISING VALVE
	DOMESTIC HOT WATER PIPING		INLINE PUMP
	DOMESTIC HOT WATER RECIRC. PIPING	I	INDICATING VALVE
T	DOMESTIC TEMPERED WATER PIPING	TCV	TEMPERATURE CONTROL VALVE
SAN	SANITARY PIPING	M	WATER METER
STM	STORM PIPING	CO	FLOOR CLEANOUT
CD	CONDENSATE DRAIN	GCO	GROUND CLEANOUT
SP	SPRINKLER PIPING		LINE CLEANOUT
HWS	HOT WATER SUPPLY PIPING	TP	TEMPERATURE & PRESSURE RELIEF VALVE
HWR	HOT WATER RETURN PIPING	P	PRESSURE GAUGE
G	NATURAL GAS PIPING	T	TEMPERATURE GAUGE
HPG	HIGH PRESSURE NATURAL GAS PIPING		THERMOMETER
RL	REFRIGERANT LIQUID PIPING	FS	FLOW SWITCH
RS	REFRIGERANT SUCTION PIPING	FM	FLOW METER
HG	HOT GAS PIPING	PRV	PRESSURE REDUCING VALVE
FD	FLOOR DRAIN	G T	THERMOSTAT (WITH GUARD WHERE INDICATED)
FD BWV	FLOOR DRAIN WITH BACKWATER VALVE	G S	TEMPERATURE SENSOR (WITH GUARD WHERE INDICATED)
P	TRAP PRIMER		TURNING VANES
BWV	BACKWATER VALVE		SUPPLY AIR DUCT
	PIPE DOWN		RETURN AIR DUCT
	PIPE UP		EXHAUST AIR DUCT
	FLEXIBLE CONNECTION		ACOUSTIC DUCT LINING
	REDUCER / INCREASER		THERMAL INSULATION
	CHECK VALVE		BRANCH LINE SPIN-IN COLLAR C/W BALANCING DAMPER
	DOUBLE CHECK VALVE ASSEMBLY		TRUNK MAIN BRANCH COLLAR C/W BALANCING DAMPER
	REDUCED PRESSURE BACKFLOW PREVENTOR	BD	BALANCING DAMPER
	UNION	OBD	OPPOSED BLADE DAMPER
	STRAINER	M	MOTORIZED DAMPER
	DRAIN (SCHEMATICS)	FSD	FIRE SMOKE DAMPER
	SCREWED OR WELDED PIPE CAP	FD	DYNAMIC FIRE DAMPER
	PLUG VALVE	SD	SMOKE DAMPER
	BALL VALVE		FLEXIBLE ROUND DUCT
	BUTTERFLY VALVE	Type Size Capacity	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
	GATE VALVE	Type Size 1 Size 2 Capacity	HYDRONIC HEATING SIZE, TYPE & CAPACITY
AV	AIR VENT	AD	ACCESS DOOR
LWCO	LOW WATER CUT OFF		EXPANSION COMPENSATOR/JOINT
	GLOBE VALVE	RIC	RETURN IN CABINET
NC COMM NO	3-WAY MIXING VALVE	AFF	ABOVE FINISHED FLOOR
NO COMM NC	3-WAY DIVERTING VALVE	AFR	ABOVE FINISHED ROOF
	VALVE ON RISER		TRANSFER DUCT (SIZE AS NOTED)
	FIRE DEPT CONNECTION	PG	PIPE GUIDE

BYPASS BOX SCHEDULE

No.	Room	Size	Manufacturer	Design cfm	Bypass Duct Size
1	WORKROOM 104	8"	EH PRICE	200	250x200

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON, N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 25387

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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Do not scale this drawing.
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NO.	DESCRIPTION	DATE
5	ISSUED FOR TENDER	26.11.04
4	REISSUED FOR BUILDING PERMIT	26.09.08
3	ISSUED FOR TENDER	26.06.08
2	ISSUED FOR PERMIT	26.03.06
1	ISSUED FOR 85% COST ESTIMATE	26.03.06

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LICENSED PROFESSIONAL ENGINEER
Nov 4 26
M.B. WHITE
100149074
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

SITE PLAN, LEGEND & SCHEDULES

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
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SCALE: As indicated	PROJECT: 20287
DATE: NOV 2021	
DRAWN: MB	DRAWING: M01
CHECKED: MW	
PRINT DATE	2026-11-04 4:39:29 PM
REVIT FILE	T:\2015\15121\02\Revit.RVT

PLUMBING FIXTURE SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Connection Sizes					Fixture		Trim		Accessories	
		HW	CW	TW	Drain	Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
WC-1	FLOOR MOUNTED FLUSH VALVE WATERCLOSET		25		80	40	AMERICAN STANDARD MADERA	VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED,, 10" OR 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gpf) PER FLUSH.	DELTA 81T201-5 ZURN Z6000AV-WS1 SLOAN 111	EXPOSED, POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHRAGM TYPE FLUSH VALVE WITH 25 mm (1") SCREWDRIVER ANGLE STOP, OSCILLATING HANDLE, FLUSH CONNECTION AND COUPLING FOR 40 mm (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEONS, SEAT BUMPER AND VACUUM BREAKER, FLUSH CYCLE SET FOR 6 litres (1.5 gal) PER FLUSH	SEAT: BEMIS 2155SSCT CENTOCO AM500STSCCSS	SEAT: WHITE, ELONGATED, OPEN FRONT., LESS COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
WC-2	BARRIER-FREE FLOOR MOUNTED FLUSH VALVE		25		80	40	AMERICAN STANDARD MADERA	VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 10" OR 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH, TOP OF SEAT TO BE BETWEEN 400mm (16") & 450mm (18") FROM FINISHED FLOOR	DELTA 81T201-5 ZURN Z6000AV-WS1 SLOAN 111	EXPOSED, POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHRAGM TYPE FLUSH VALVE WITH 25 mm (1") SCREWDRIVER ANGLE STOP, OSCILLATING HANDLE, FLUSH CONNECTION AND COUPLING FOR 40 mm (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEONS, SEAT BUMPER AND VACUUM BREAKER, FLUSH CYCLE SET FOR 6 litres (1.5 gal) PER FLUSH. SPECIAL ORDER LEFT/RIGHT HANDED SO THAT HANDLE IS ON TRANSFER SIDE OF FIXTURE.	SEAT: BEMIS 7550TDG CENTOCO AM820STS	SEAT: WHITE, ELONGATED, OPEN FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
WC-3	WATER CLOSET FLUSH TANK ROUND FRONT FOR KINDERGARTENS		15		80	40	AMERICAN STANDARD CADET PRO 215A004.020 KOHLER WELLWORTH ZURN	VITREOUS CHINA, TANK WITH LINER & FLAPPER TYPE VALVE ASSY, SIPHON JET, ROUND RIM, TWO PIECE (TANK & BOWL) CLOSE COUPLED, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.			SEAT: BEMIS 7750TDG CENTOCO 460TM	SEAT: WHITE, ROUND, CLOSED FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
WC-4	WATER CLOSET FLUSH TANK ROUND FRONT FOR KINDERGARENS (BABY BOWL)		15		80	40	AMERICAN STANDARD BABY DEVORO 2315228 CRANE BABY BOWL 3811 ZURN Z5560	VITREOUS CHINA, TANK WITH LINER & FLAPPER TYPE VALVE ASSY, SIPHON JET, ROUND RIM, TWO PIECE (TANK & BOWL) CLOSE COUPLED, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.			SEAT: BEMIS BB955CT CENTOCO AM2300STSCC	SEAT: WHITE, ROUND, CLOSED FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
L-1	WALL MOUNTED LAV C/W CONCEALED FLOOR MOUNTED WALL CARRIER (HARDWIRE SENSOR)		15	15	32	32	AMERICAN STANDARD MURRO KOHLER ZURN	VITREOUS CHINA, LOW SHELF, WITH INTEGRAL BACK, CONTOURED FRONT, SHALLOW FRONT BASIN, FRONT OVERFLOW, SOAP DEPRESSIONS, SUPPLY OPENINGS ON 102mm (4") CENTRES, CONCEALED SUPPORTS. SIZES: 635mm x 540mm (25" x 21 1/2"). SUITABLE FOR WALL MOUNTED, COMPLETE WITH KNEE GUARD. COMPLETE WITH FLOOR MTD CONCEALED WALL CARRIER.	DELTA 591T0230 MOEN COMMERCIAL 8301-AC ZURN Z6915-HW6-XL	HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 76mm TO 381mm (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5gpm (5.7 LMIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER STAINLESS STEEL RECESSED HOUSING SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W HARDWIRED TRANSFORMER.	TRAP: DELTA 33T311 ZURN MCGUIRE CARRIER: ZURN WATTS	WASTE FITTING: NPS 32 mm (1 1/4") OFFSET WASTE WITH GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER. THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL
L-2	BARRIER-FREE WALL MOUNTED LAV C/W CONCEALED FLOOR MOUNTED WALL CARRIER (HARDWIRE SENSOR)		15	15	32	32	AMERICAN STANDARD MURRO KOHLER ZURN	VITREOUS CHINA, LOW SHELF, WITH INTEGRAL BACK, CONTOURED FRONT, SHALLOW FRONT BASIN, FRONT OVERFLOW, SOAP DEPRESSIONS, SUPPLY OPENINGS ON 102mm (4") CENTRES, CONCEALED SUPPORTS.	DELTA 591T0230 MOEN COMMERCIAL 8301-AC ZURN Z6915-HW6-XL	HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 76mm TO 381mm (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5gpm (5.7 LMIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER STAINLESS STEEL RECESSED HOUSING SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W HARDWIRED TRANSFORMER.	INSULATION: MCGUIRE PROWRAP PWV8902 TRUEBRO LAV GUARD	INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1¼") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
L-3	WALL MOUNTED LAV C/W CONCEALED FLOOR MOUNTED WALL CARRIER (HARDWIRE SENSOR) MTD AT ±600AFF (COORDINATE INSTALL HEIGHT WITH ARCH DWG ELEVATION)		15	15	32	32	AMERICAN STANDARD PENLYN 0373.050 KOHLER CHESAPEAKE K-1728 ZURN Z5354	WALL-HUNG SINK, VITREOUS CHINA, LOW SHELF, WITH INTEGRAL BACK, CONTOURED FRONT, SHALLOW FRONT BASIN, OVERFLOW, SOAP DEPRESSIONS, SUPPLY OPENINGS ON 100 MM (4") CENTRES, CONCEALED SUPPORTS. SIZES: 86 mm x 500 mm (27" x 20").	DELTA 591T0230 MOEN COMMERCIAL 8301-AC ZURN Z6915-HW6-XL	HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 76mm TO 381mm (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5gpm (5.7 LMIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER STAINLESS STEEL RECESSED HOUSING SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W HARDWIRED TRANSFORMER.	INSULATION: MCGUIRE PROWRAP PWV8902 TRUEBRO LAV GUARD	INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1¼") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
MS-1	MOP SINK	15	15		80	40	FIAT MSB 2424 ZURN 1996-24 STERN WILLIAMS MTB-2424	SINK: MOLDED HIGH DENSITY COMPOSITE BASIN WITH 80 mm (3") CHROME PLATED CAST BRASS DOME STRAINER AND GASKETED OUTLET CONNECTION. OVERALL SIZE: 600 mm x 600 mm x 250 mm HIGH (24" x 24" x 10").	FIAT 830-AA ZURN Z842M1-SH DELTA 2879	CHROME PLATED CAST BRASS WALL MOUNTED FAUCET WITH WALL BRACE, 20 mm (3/4") THREADED OUTLET SPOUT WITH PAIL HOOK, 200 mm (8") CENTRESET LEVER HANDLES, VACUUM BREAKER, ESCUTCHEONS, UNION INLETS, AERATOR, & INTEGRAL STOP VALVES. PROVIDE ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPA (60 psi).	FIAT ZURN STERN WILLIAMS DELTA	HOSE AND HOSE BRACKET: 1200 mm (48") LONG RUBBER HOSE MOP HANGER WALL GUARD: STAINLESS STEEL 600 mm (24") HIGH CONTINUOUS ON ADJACENT WALLS.
S-1	SINGLE COMPARTMENT STAINLESS STEEL SINK (CW ONLY)		15		40	32	KINDRED LBS6808 NOVANNI 1017I	SINK: SINGLE COMPARTMENT, LEDGE-BACK, FROM 1.0 MM (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 500 mm x 500 mm x 200 mm (20" x 20" x 8").	CHICAGO FAUCET 350-E3V-XKABCP	FAUCET: CHROME PLATED BRASS, WITH GOOSENECK SPOUT, AERATOR, (0-1/4" REACH) LEVER HANDLES, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi). 120° MAXIMUM SPOUT SWIVEL.		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
S-2	SINGLE COMPARTMENT STAINLESS STEEL SINK		15	15	40	32	KINDRED LBS6808 NOVANNI 1017I	SINK: SINGLE COMPARTMENT, LEDGE-BACK, FROM 1.0 MM (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 500 mm x 500 mm x 200 mm (20" x 20" x 8").	DELTA 100-DST	FAUCET: CHROME PLATED BRASS, WITH SWING SPOUT, AERATOR, SINGLE OPENING, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
S-3	SINGLE COMPARTMENT STAINLESS STEEL SINK (COORDINATE ELEVATION & ORIENTATION WITH ARCHITECTURAL/GC)		15	15	40	32	KINDRED LBS6808 NOVANNI 1017I	SINK: SINGLE COMPARTMENT, LEDGE-BACK, FROM 1.0 MM (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 500 mm x 500 mm x 200 mm (20" x 20" x 8").	DELTA 100-DST	FAUCET: CHROME PLATED BRASS, WITH SWING SPOUT, AERATOR, SINGLE OPENING, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
S-4	SINGLE COMPARTMENT STAINLESS STEEL SCIENCE SINK (CW ONLY)		15		40	32	KINDRED LBS4607/316 NOVANNI	SINK: FROM 1.0mm (18 GAUGE) THICK TYPE 316 STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 480mm x 460mm x 180mm (18 13/16" x 18 1/8" x 7").	DELTA W6600-9-C	FAUCET: CHROME PLATED BRASS, WITH GOOSENECK SPOUT, VACUUM BREAKER, AERATOR, LEVER HANDLES, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi). 120° MAXIMUM SPOUT SWIVEL.		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
S-5	INSTRUCTOR SINGLE COMPLARTMENT STAINLESS STEEL SCIENCE SINK		15	15	40	32	KINDRED LBS4607/316 NOVANNI	SINK: FROM 1.0mm (18 GAUGE) THICK TYPE 316 STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES:480mm x 460mm x 180mm (18 13/16" x 18 1/8" x 7").	DELTA W6720-9-C	FAUCET: CHROME PLATED BRASS, WITH GOOSENECK SPOUT, VACUUM BREAKER, AERATOR, LEVER HANDLES, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi). 120° MAXIMUM SPOUT SWIVEL.		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
S-6	STAINLESS STEEL SINGLE SINK C/W SOLIDS INTERCEPTOR	15	15		40	32	KINDRED LBS6808 NOVANNI 1017I	SINK: SINGLE COMPARTMENT, LEDGE-BACK, FROM 1.0 MM (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 500 mm x 500 mm x 200 mm (20" x 20" x 8").	DELTA 26T3944-LS	FAUCET: CHROME PLATED BRASS, WITH GOOSENECK SPOUT, AERATOR, LEVER HANDLES, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi). 120° MAXIMUM SPOUT SWIVEL.		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT. PROVIDE ZURN Z-1180 OR EQUAL ANCON SOLIDS INTERCEPTOR UNDER COUNTER.
S-7	DOUBLE COMPARTMENT STAINLESS STEEL SINK	15	15		40	32	KINDRED LBD6408-1/3 NOVANNI 2007I	SINK: DOUBLE COMPARTMENT, LEDGE-BACK, FROM 1.0 mm (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 790 mm x 520 mm x 200 mm (31½" x 20 3/4" x 8").	DELTA 100 ZURN Z82300-CP8 MOEN COMMERCIAL 8701	FAUCET: CHROME PLATED BRASS, WITH SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
S-8	SINGLE COMPLARTMENT STAINLESS STEEL HAND SINK		15	15	40	32	KINDRED QSL1515/6 NOVANNI	SINK: SINGLE COMPARTMENT, LEDGE-BACK, FROM 1.0 MM (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 500 mm x 500 mm x 200 mm (20" x 20" x 8").	DELTA 27C4843	FAUCET: CHROME PLATED BRASS, WITH GOOSENECK SPOUT, AERATOR, LEVER HANDLES, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi). 120° MAXIMUM SPOUT SWIVEL.		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
DF-1	BI-LEVEL REFRIGERATED DRINKING FOUNTAIN C/W BOTTLE FILLER AND CONCEALED FLOOR MOUNTED CARRIER		15		32	32	ELKAY EZSTL8WSSK	WALL HUNG REFRIGERATED UNIT SHALL PROVIDE 8.0 GPH OF WATER, SHALL PROVIDE 1-1.5 GPM FLOW RATE WITH LAMINAR FLOW TO MINIMIZE SPLASHING. SHALL INCLUDE ANTIMICROBIAL PROTECTED PLASTIC COMPONENTS TO PREVENT MOLD AND MILDEW. UNIT SHALL INCLUDE PUSHBAR-ACTIVATION AND WATER-EFFICIENT BUBBLER. BOTTLE FILLING UNIT SHALL MEET ADA GUIDELINES FOR PARALLEL APPROACH. UNIT SHALL MEET ADA GUIDELINES FOR FRONTAL OR PARALLEL APPROACH. UNIT SHALL BE LEAD-FREE DESIGN WHICH MEETS SAFE DRINKING WATER ACT AND IS CERTIFIED TO NSF/ANSI 61 AND CALIFORNIA AB1953. UNIT SHALL BE CERTIFIED TO UL399 AND CAN/CSA 22.2 NO. 120 WITH WALL PLATE, AND WALL HANGER. UNIT COMPLETE WITH ELECTRONIC BOTTLER SENSOR (SUITABLE FOR 120/1/60) WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSH BUTTON ACTIVATION, AND STAINLESS STEEL FINISH.		VANDAL RESISTANT, ANGLE STREAM ANTI-SQUIRT BUBBLER WITH AUTOMATIC STREAM REGULATOR, SELF-CLOSING PUSH BUTTON VALVE, SCREWDRIVER STOP, WASTE TAILPIECE, TRAP AND ACCESS COVER.		

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Waterloo, ON, N2V 1Y8
Phone: 519-772-2222
Website: deiassociates.ca
Project Number: 25287

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

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Do not scale this drawing.
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NO.	DESCRIPTION	DATE
5	ISSUED FOR TENDER	26.11.04
3	ISSUED FOR TENDER	26.06.08
2	ISSUED FOR PERMIT	26.03.06
1	ISSUED FOR 65% COST ESTIMATE	26.03.06

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North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

SCHEDULES

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SCALE	PROJECT 20287
DATE NOV 2021	
DRAWN MB	DRAWING
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PRINT DATE	2026-11-04 4:39:30 PM
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PLUMBING FIXTURE SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Connection Sizes					Fixture		Trim		Accessories	
		HW	CW	TW	Drain	Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
DF-2	REFRIGERATED DRINKING FOUNTAIN C/W BOTTLE FILLER AND CONCEALED FLOOR MOUNTED CARRIER		15		32	32	ELKAY EZSBWSVRSK	WALL HUNG REFRIGERATED UNIT SHALL PROVIDE 8.0 GPH OF WATER. SHALL PROVIDE 1-1.5 GPM FLOW RATE WITH LAMINAR FLOW TO MINIMIZE SPLASHING. SHALL INCLUDE ANTIMICROBIAL PROTECTED PLASTIC COMPONENTS TO PREVENT MOLD AND MILDEW. UNIT SHALL INCLUDE PUSHBAR-ACTIVATION AND WATER-EFFICIENT BUBBLER. BOTTLE FILLING UNIT SHALL MEET ADA GUIDELINES FOR PARALLEL APPROACH. UNIT SHALL MEET ADA GUIDELINES FOR FRONTAL OR PARALLEL APPROACH. UNIT SHALL BE LEAD-FREE DESIGN WHICH MEETS SAFE DRINKING WATER ACT AND IS CERTIFIED TO NSF/ANSI 61 AND CALIFORNIA AB1953. UNIT SHALL BE CERTIFIED TO UL399 AND CAN/CSA 22.2 NO. 120 WITH WALL PLATE, AND WALL HANGER. UNIT COMPLETE WITH ELECTRONIC BOTTLER SENSOR (SUITABLE FOR 120/1/60) WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSH BUTTON ACTIVATION, AND STAINLESS STEEL FINISH.		VANDAL RESISTANT, ANGLE STREAM ANTI-SQUIRT BUBBLER WITH AUTOMATIC STREAM REGULATOR, SELF-CLOSING PUSH BUTTON VALVE, SCREWDRIVER STOP, WASTE TAILPIECE, TRAP AND ACCESS COVER.		
WF-1	WALL MOUNTED WASH FOUNTAIN C/W CONCEALED FLOOR MOUNTED WALL CARRIER (3 USER)		15	15	50	32	BRADLEY MG-3	WALL MOUNTED TERREON BOWL GROUP LAVATORY SYSTEM, COMPLETE WITH STAINLESS STEEL PANEL, SUITABLE FOR Three (3) USERS. COLOUR: COLOUR BY ARCHITECT. ALLOW FOR TWO(2) PREMIUM CLOURS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS		ADAPTIVE INFRA-RED CONTROLLED, MOLDED SPRAYHEAD, STOP VALVES, TRANSFORMER, HORIZONTAL SWING CHECK VALVES, THERMOSTATIC MIXING VALVE PRESET AT 40°C. PROVIDE CONTROL TO LIMIT FLOW TO 2L/MINUTE. SUITABLE FOR 120/1/60.		
WF-2	WALL MOUNTED WASH FOUNTAIN (KINDERGARTEN) C/W CONCEALED FLOOR MOUNTED WALL CARRIER (3 USER)		15	15	50	32	BRADLEY TRI FOUNT MF2939	WALL MOUNTED TERREON BOWL, STAINLESS STEEL PANEL SUITABLE FOR THREE (3) USERS. COLOUR: COLOUR BY ARCHITECT. ALLOW FOR TWO (2) PREMIUM COLOURS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS		ADAPTIVE INFRA-RED CONTROLLED, MOLDED SPRAYHEAD, STOP VALVES, TRANSFORMER, HORIZONTAL SWING CHECK VALVES, THERMOSTATIC MIXING VALVE PRESET AT 40°C. PROVIDE CONTROL TO LIMIT FLOW TO 2L/MINUTE. SUITABLE FOR 120/1/60.		
WS-1	WASHER SUPPLY VALVE	15	15		40	32	WATTS ZURN WM2961 DELTA	ENCASED WASHING MACHINE VALVE WITH SINGLE LEVER HANDLE VALVE, HEAVY-DUTY MOUNTING STRAPS, KNOCKOUTS FOR A RIGHT OR LEFT MOUNTING, AND A TAIL PIECE THAT ADAPTS EASILY TO EITHER ABS OR PRC STANDPIPE.				
EW-1	EYE WASH		15	15	32		HAWS 7260BT-7270BT	250 mm (10") DIAMETER IMPACT RESISTANT BOWL CHROME PLATED BRASS SPRAY HEADS COMPLETE WITH COVERS, AND WALL MOUNTING BRACKET. TEPID WATER MIXING VALVE MEETING REQUIREMENTS OF ANSI STANDARD Z358.1-2004. MIXING VALVE IS TO PROVIDE WATER TEMPERATURE BETWEEN 15.5°C (60°) AND 38°C (100°F). 15 mm (1/2") CHROME PLATED BRASS STAY OPEN BALL VALVE COMPLETE WITH PUSH HANDLE. CONTRACTOR TO PAINT EXPOSED TW PIPING SILVER			HAWS TWBS.EWE	TEMPERING VALVE TO BLEND HOT AND COLD WATER TO DELIVER TEPID WATER. AS REQUIRED BY ANSI Z358.1
HB-1	WALL HYDRANT		20				ZURN Z-1300 WATTS DELTA WALTEC WILKINS	RECESSED, ENCASED, ALL BRONZE CONSTRUCTION, ANTI-SYPHON, NON-FREEZE WALL HYDRANT WITH NON-TURNING OPERATING ROD, FREE FLOATING COMPRESSION VALVE, INTEGRAL VACUUM BREAKER, SELF DRAINING, REPLACEABLE SEAT AND SEAT WASHER. NICKL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK. NPS 20mm(3/4") HOSE OUTLET				
FD-1	FLOOR DRAIN				NOTED	40	ZURN ZN415B MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A	GENERAL DUTY CAST IRON BODY, ADJUSABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER				
FD-2	FUNNEL FLOOR DRAIN				NOTED	40	ZURN ZN-415-BF MIFAB F1100-C-EG CONTOUR C2000-RSHNB WATTS FD-100-C-EG-1	COMBINATION FUNNEL FLOOR DRAIN CAST IRON BODY WITH INTEGRAL SEEPAGE PAN, CLAMPING COLLAR, NICKEL-BRONZE ADJUSTABLE HEAD STRAINER WITH INTEGRAL FUNNEL, C/W TRAP PRIMER.				
FD-3	FLOOR DRAIN (HEAVY DUTY)				NOTED	40	ZURN Z645 MIFAB CONTOUR WATTS	HEAVY DUTY CAST IRON BODY WITH SEDIMENT BUCKET AND INTEGRAL TRAP, MEMBRANE CLAMP, VENT CONNECTION, 300 x 300 (12" x 12") CAST IRON HINGED GATE WITH BRONZE PLUG				
HD-1	HUB DRAIN				NOTED	40	ZURN Z415.C/W Z-400-S MIFAB F1100-C-DD CONTOUR C2000-F WATTS FD-100-C-DD	GENERAL DUTY HUB DRAIN CAST IRON BODY, CLAMPING COLLAR, NICKEL-BRONZE ADJUSTABLE HEAD HUB. C/W TRAP PRIMER.				
RD-1	ROOF DRAIN (CONTROL FLOW)				NOTED		ZURN ZACF121-CR MIFAB R1200-FBU CONTOUR C1000DMPX WATTS RD-100-ABDK SMITH 1016-C-R-AD	CONTROLLED FLOW, CAST IRON BODY, UNDER DECK CLAMP AND SUMP RECEIVER TO SUIT ROOF CONSTRUCTION, FLASHING CLAMP RING WITH INTEGRAL GRAVEL STOP, BEARING PAN, FLOW CONTROL WEIR ASSEMBLY, ALUMINUM DOME.				
RD-2	ROOF DRAIN				NOTED		ZURN ZA121-CR MIFAB R1200-BU CONTOUR C1000DMP WATTS RD-100-BED-K SMITH 1015-C-R-AD	STANDARD ROOF DRAIN WITH CAST IRON BODY WITH ALUMINUM DOME, UNDER-DECK CLAMP TO SUIT ROOF CONSTRUCTION, ROOF SUMP RECIEVER, FLASHING CLAMP WITH INTEGRAL GRAVEL STOP				

HEAT EXCHANGER SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Number of Plates	Source Fluid						Process Side						Acceptable Manufacturer	Remarks
			Entering Temp. (°F)	Leaving Temp. (°F)	Flow (gpm)	Capacity (MBH)	Pressure Drop (in wc)	Medium	Entering Temp. (°F)	Leaving Temp. (°F)	Flow (gpm)	Capacity (MBH)	Pressure Drop (in wc)	Medium		
HE-1	PLATE & FRAME HEAT EXCHANGER	-	42	53	333	-	7.5	40% PROPYLENE GLYCOL	55	45	300	-	5.3	WATER	BELL & GOSSETT GPX AP47	GLYCOL CHILLED WATER LOOP. MINIMUM 15% EXCESS SURFACE AREA, MINIMUM 15% ADDITIONAL PLATE CAPACITY, AHRI CERTIFIED PERFORMANCE
HE-2	PLATE & FRAME HEAT EXCHANGER	-	150	130	198	-	8.7	WATER	120	140	194.67	-	10.8	40% PROPYLENE GLYCOL	BELL & GOSSETT GPX AP45	GLYCOL CHILLED WATER LOOP. MINIMUM 15% EXCESS SURFACE AREA, MINIMUM 15% ADDITIONAL PLATE CAPACITY, AHRI CERTIFIED PERFORMANCE

SILENCER SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	System Serving	Face Dimensions W x H x D (in)	Length (in)	Flow (cfm)	Face Velocity (fpm)	Silencer Max. Pressure Drop (in wg)	Free Field Noise Reduction (dB)								Acceptable Manufacturer & Model	Remarks
							63	125	250	500	1000	2000	4000	8000		
SL-1.1	MUA-1 SUPPLY	1000x700	2,100	10,550	1378	0.17	5	10	21	24	28	15	9	7	KINETICS	STRAIGHT SILENCER, FILM LINED. MAX. NC 30 IN CLASSROOMS
SL-1.2	MUA-1 SUPPLY	950x450	2,100	5,400	1181	0.17	5	11	23	26	31	19	10	8	KINETICS	STRAIGHT SILENCER, FILM LINED. MAX. NC 30 IN CLASSROOMS
SL-1.3	MUA-1 RETURN	900x450	1,500	3,310	-787	0.08	3	9	19	21	23	17	8	5	KINETICS	STRAIGHT SILENCER, FILM LINED. MAX. NC 30 IN CLASSROOMS
SL-1.4	MUA-1 RETURN	650x450	1,500	3800	-1378	0.17	3	6	15	21	30	23	9	5	KINETICS	STRAIGHT SILENCER, FILM LINED. MAX. NC 30 IN CLASSROOMS
SL-1.5	MUA-1 RETURN	600x500	2,100	3900	-1575	0.2	8	13	22	22	21	12	10	7	KINETICS	STRAIGHT SILENCER, FILM LINED. MAX. NC 30 IN CLASSROOMS

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Phone: 519-772-3232
Website: deiassociates.ca
Project Number: 25287
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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5	ISSUED FOR TENDER	26.11.04
3	ISSUED FOR TENDER	26.06.08
2	ISSUED FOR PERMIT	26.03.06
1	ISSUED FOR 65% COST ESTIMATE	26.03.06

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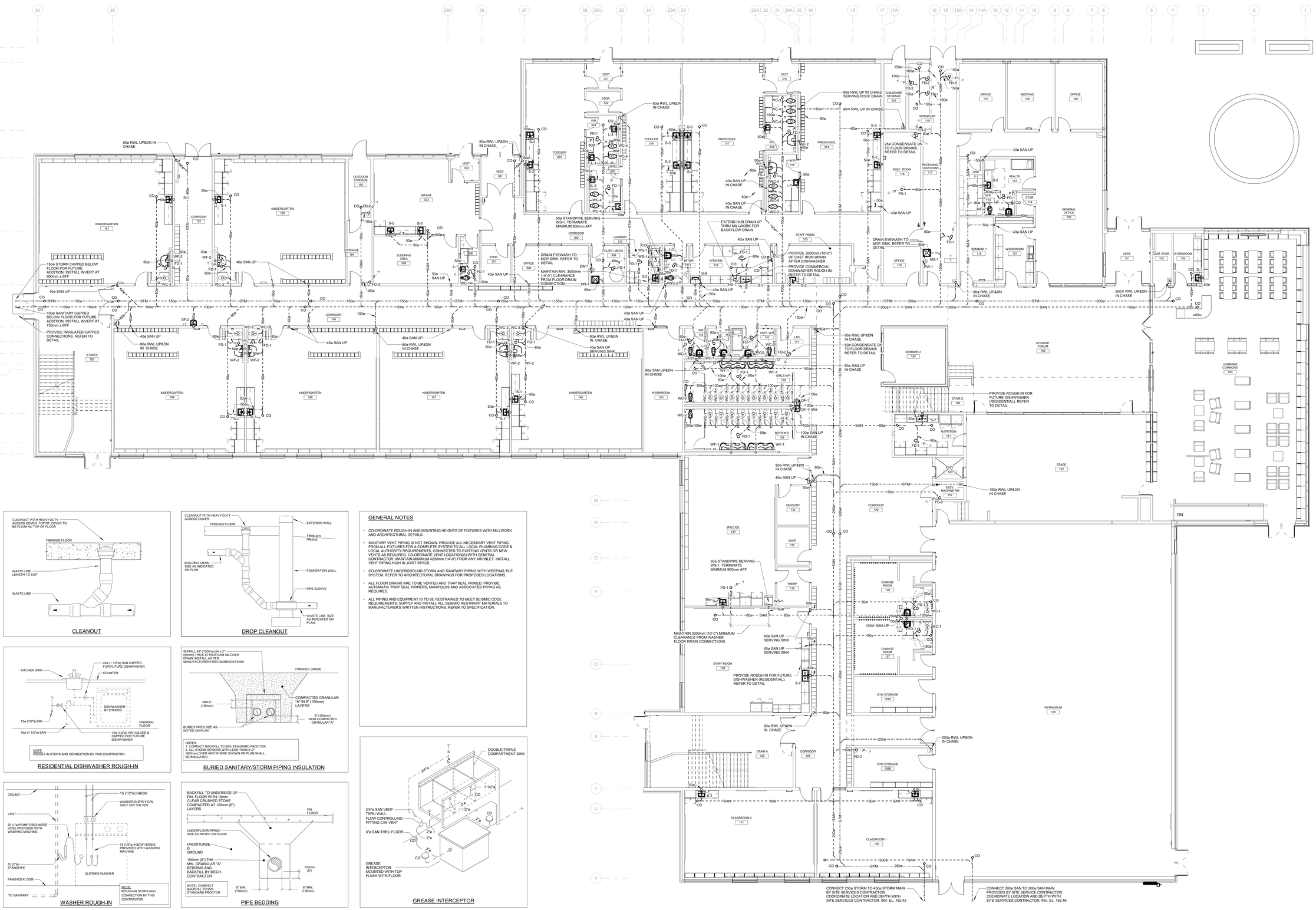
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OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

SCHEDULES

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
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GROUND FLOOR BELOW GRADE DRAINAGE PLAN

SCALE: 1 : 100

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CLEANOUT

DROP CLEANOUT

RESIDENTIAL DISHWASHER ROUGH-IN

BURIED SANITARY/STORM PIPING INSULATION

WASHER ROUGH-IN

PIPE BEDDING

GENERAL NOTES

- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
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GREASE INTERCEPTOR

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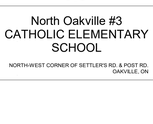
Consulting Engineers

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1	ISSUED FOR 85% COST ESTIMATE	26.03.06

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North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

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OAKVILLE, ON

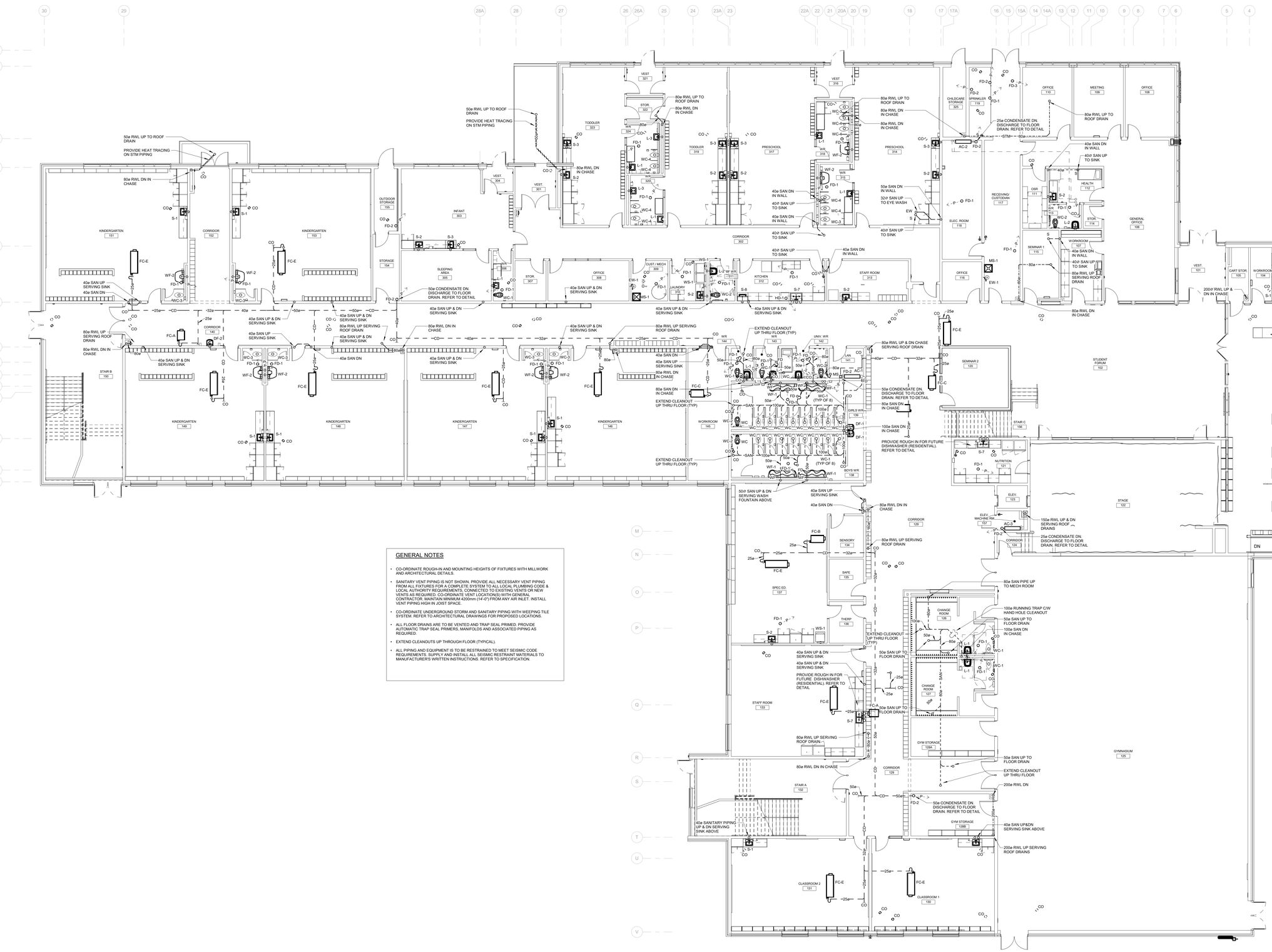
HALTON CATHOLIC DISTRICT SCHOOL BOARD

GROUND FLOOR - BELOW GRADE DRAINAGE PLAN

HOSSACK & ASSOCIATES ARCHITECTS

4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-6264 Fax (905) 607-8280

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GENERAL NOTES

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- EXTEND CLEANOUTS UP THROUGH FLOOR (TYPICAL).
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GROUND FLOOR DRAINAGE PLAN

SCALE: 1 : 100

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Project Number: 20287

Consulting Engineers

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PROFESSIONAL ENGINEER PROVINCE OF ONTARIO
Nov 4 26
M.B. WHITE
100149074

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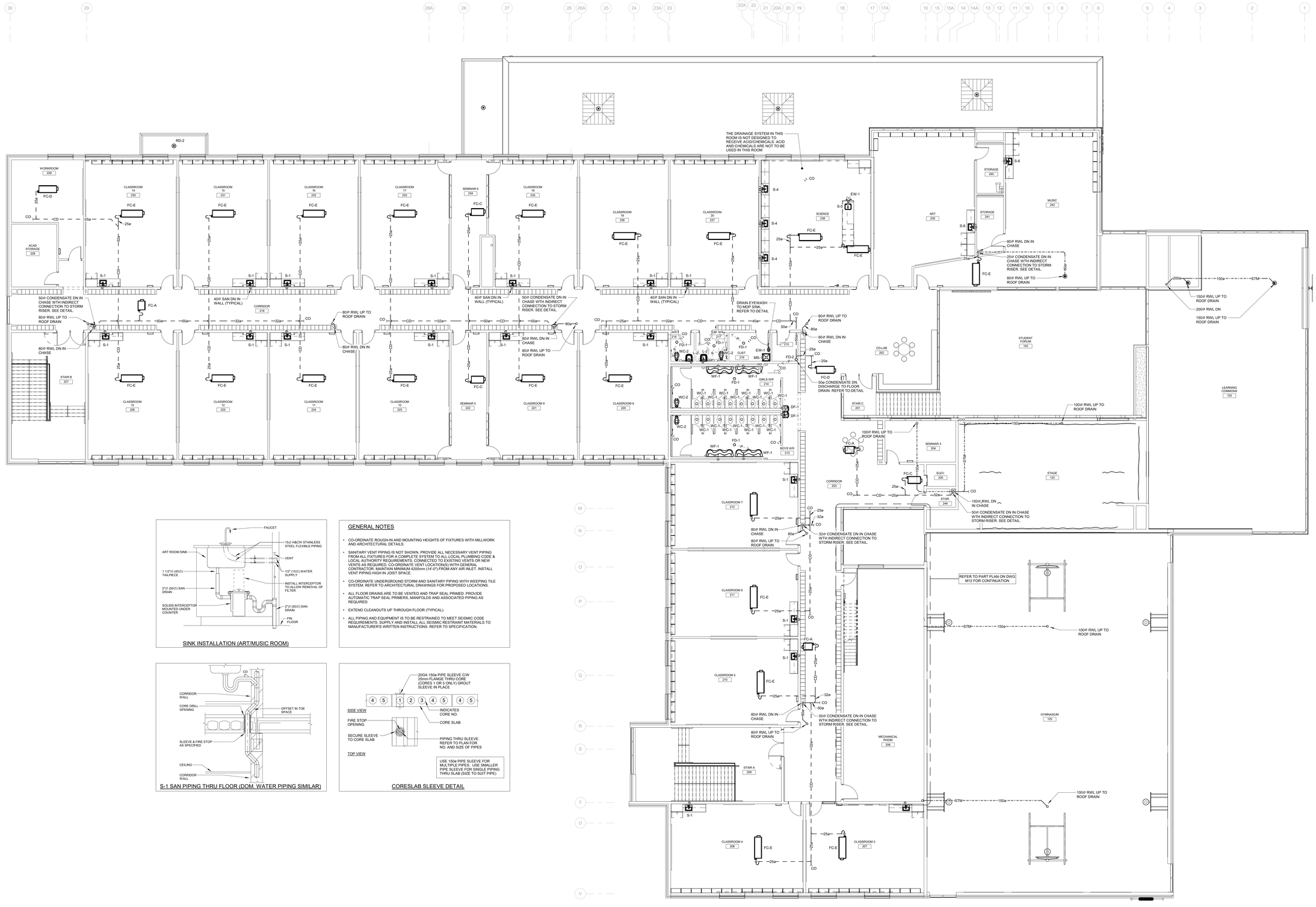
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

GROUND FLOOR - DRAINAGE PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4210 Dundas Street
MISSISSAUGA, ONTARIO, L5L 5M8
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SECOND FLOOR DRAINAGE PLAN
SCALE: 1 : 100

SINK INSTALLATION (ART/MUSIC ROOM)

S-1 SAN PIPING THRU FLOOR (DOM. WATER PIPING SIMILAR)

GENERAL NOTES

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CORESLAB SLEEVE DETAIL

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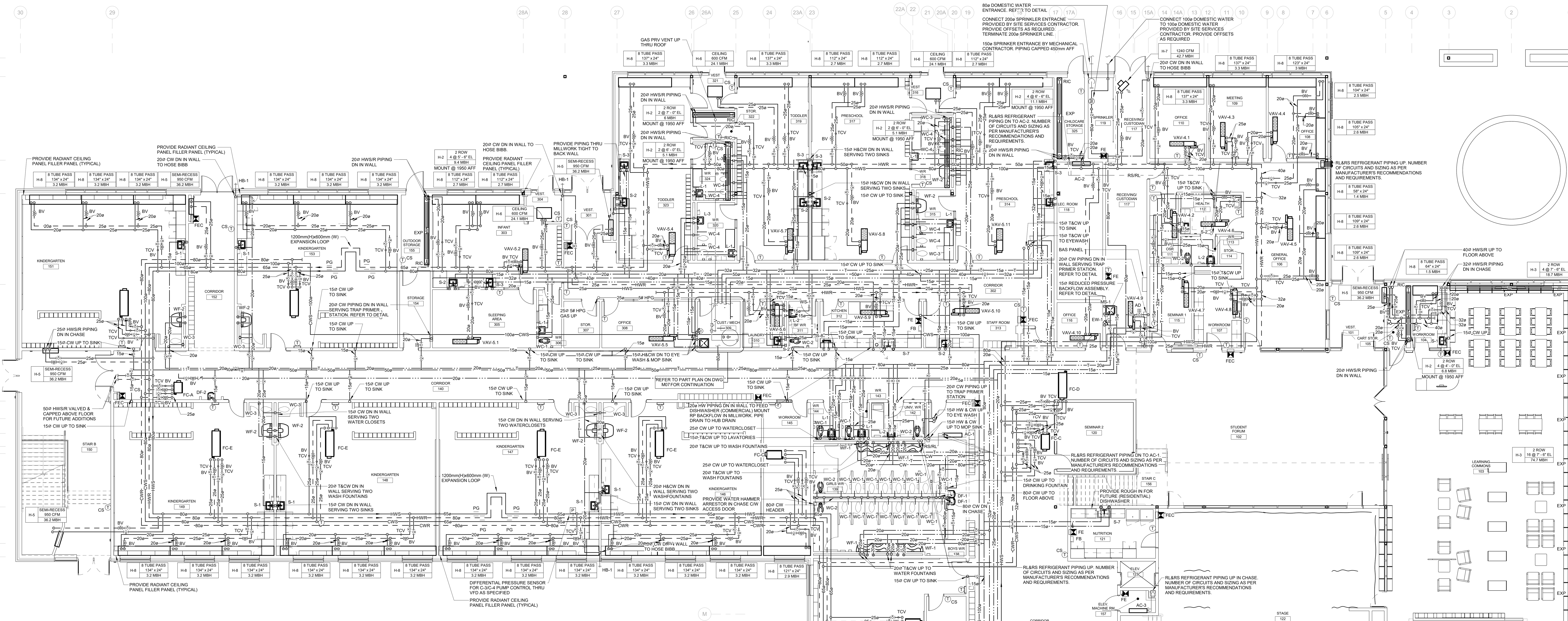
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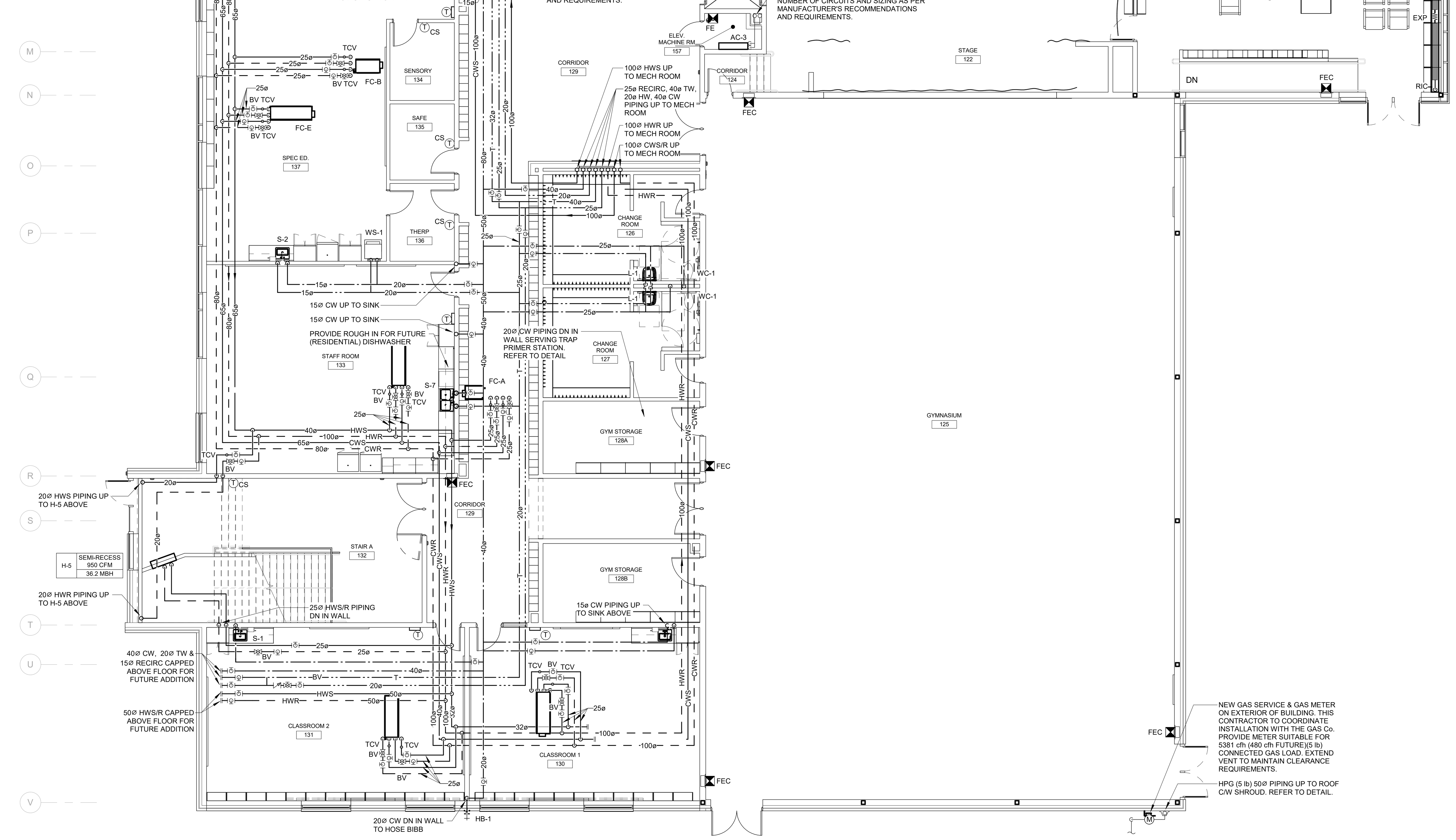
HALTON CATHOLIC DISTRICT SCHOOL BOARD

SECOND FLOOR - DRAINAGE PLAN

HOSSACK & ASSOCIATES ARCHITECTS
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MISSISSAUGA, ONTARIO L5L 5M8
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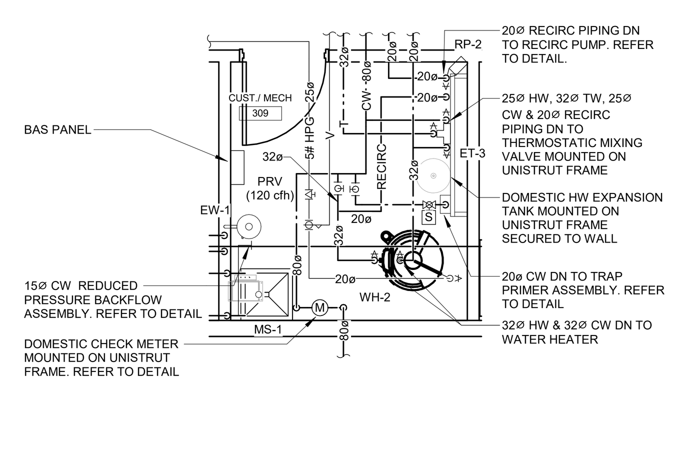
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GROUND FLOOR PIPING PLAN

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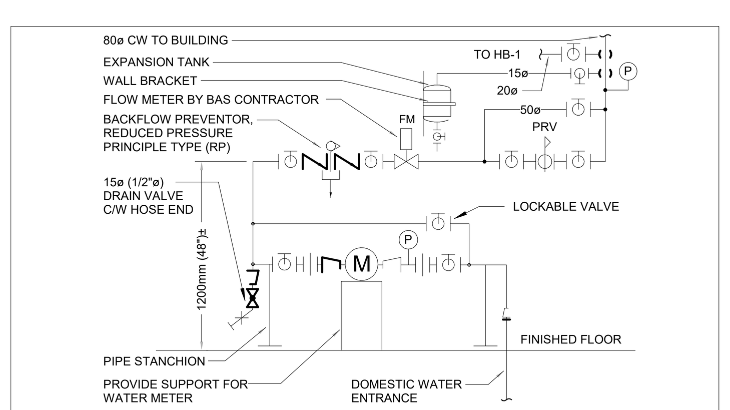


DAYCARE MECH ROOM PART PLAN - PIPING

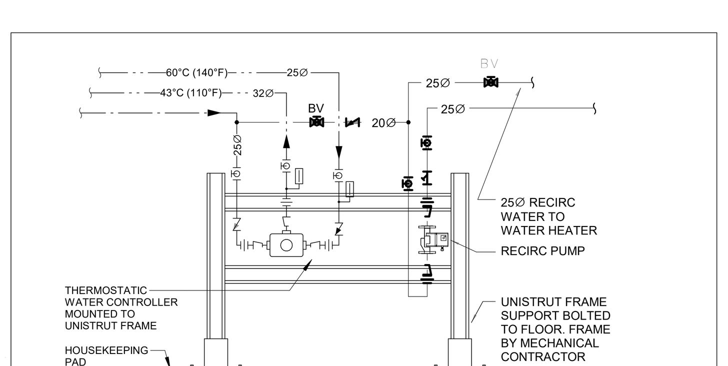
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GENERAL NOTES

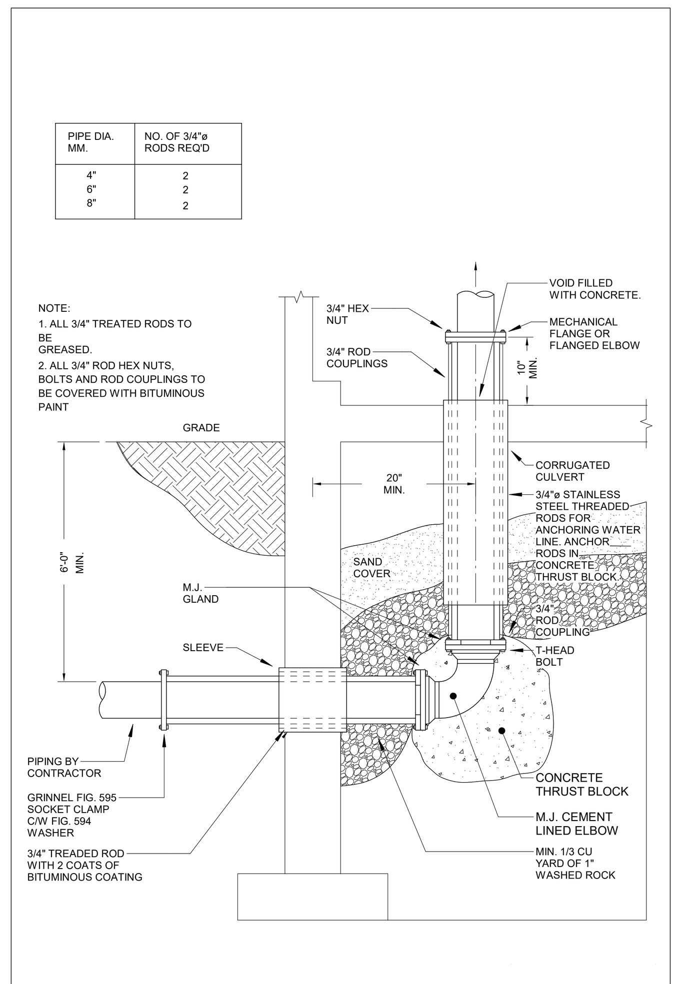
- REFER TO M09 AND M10 SERIES DRAWINGS FOR THERMOSTAT/SENSORS NOT INDICATED ON THIS DRAWING.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- THIS PROJECT REQUIRES SEISMIC EQUIPMENT & PIPING SUPPORTS.



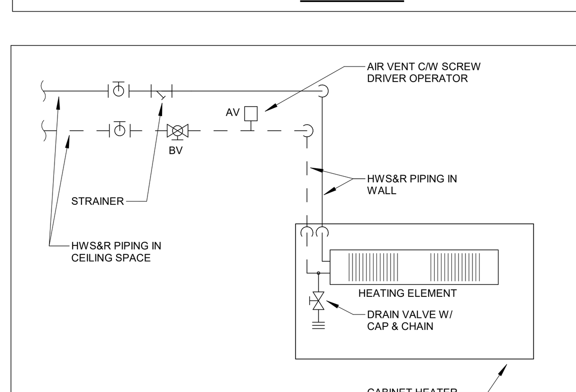
WATER ENTRANCE W/ PRESSURE REDUCING VALVE



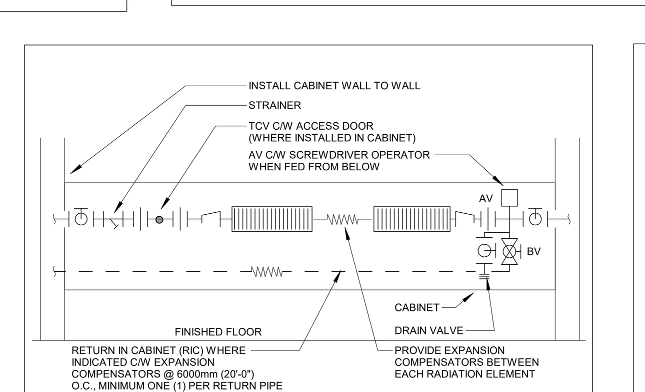
DOMESTIC WATER THERMOSTATIC WATER CONTROLLER CHILDCARE



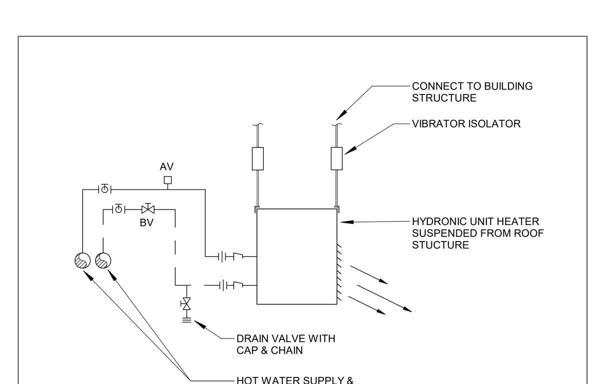
UNDERGROUND CONNECTIONS TO WATERMAIN



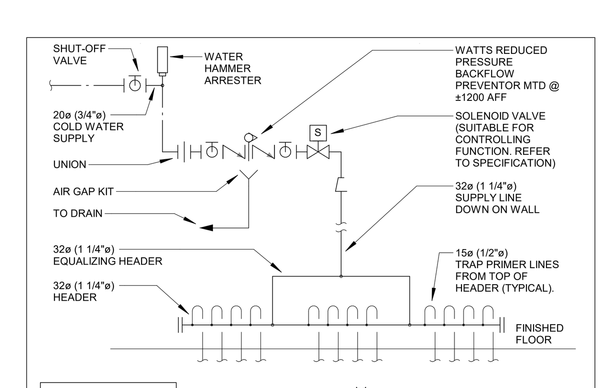
CABINET HEATER (CONVECTOR SIMILAR)



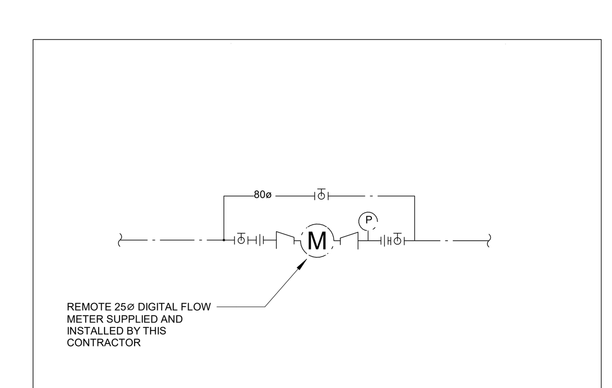
HEATING RADIATION PIPING



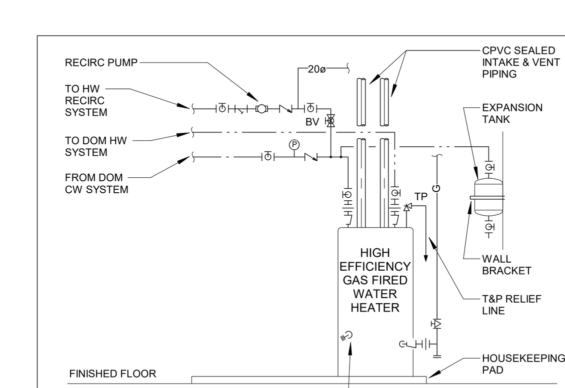
HYDRONIC UNIT HEATER



TRAP PRIMER



CHILD CARE REMOTE WATER METER



HOT WATER HEATER (DAYCARE)

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON, N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 25387

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NO.	DESCRIPTION	DATE
5	ISSUED FOR TENDER	26.11.04
3	ISSUED FOR TENDER	26.06.08
2	ISSUED FOR PERMIT	26.03.06
1	ISSUED FOR 85% COST ESTIMATE	26.03.06

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LICENSED PROFESSIONAL ENGINEER
Nov 4 26
M.B. WHITE
100149074
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

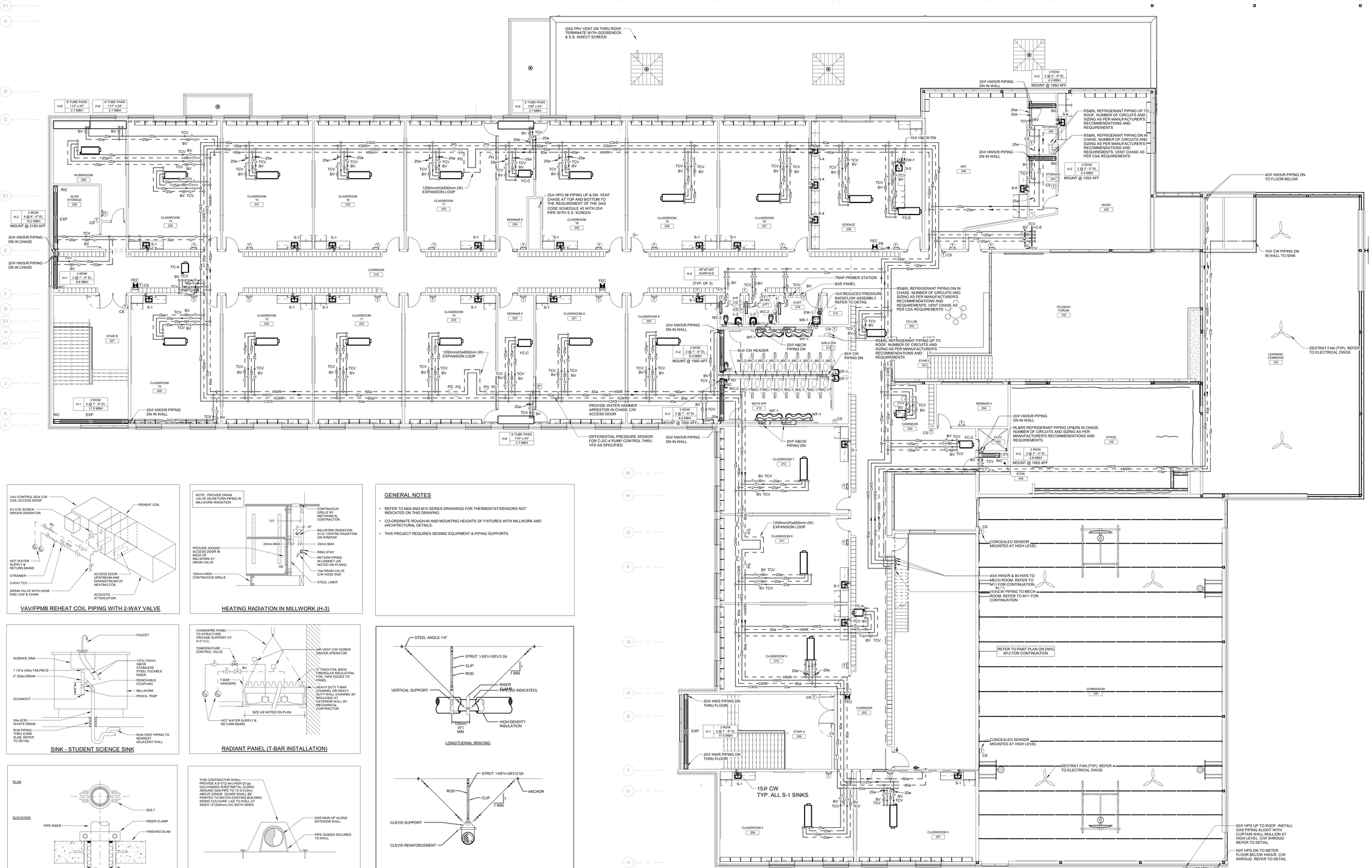
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD
HCDSB

GROUND FLOOR - PIPING PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8284 Fax (905) 607-8290

SCALE: As indicated	PROJECT: 20287
DATE: NOV 2021	
DRAWN: MB	DRAWING: M07
CHECKED: MW	
PRINT DATE	2026-11-04 4:46:37 PM
REVIT FILE	T:\2015\15121\02\Revit.RVT



SECOND FLOOR PIPING PLAN

SCALE: 1 : 100

VAV/FPMB REHEAT COIL PIPING WITH 2-WAY VALVE

HEATING RADIATION IN MILLWORK (H-3)

GENERAL NOTES

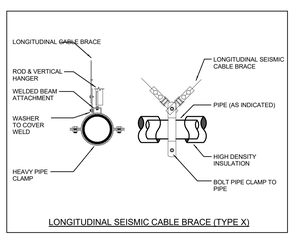
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SINK - STUDENT SCIENCE SINK

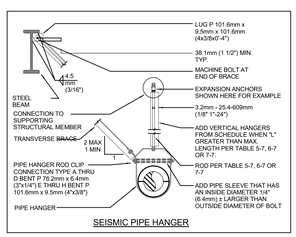
RADIANT PANEL (T-BAR INSTALLATION)

RISER CLAMP

GAS PIPE ENCLOSURE



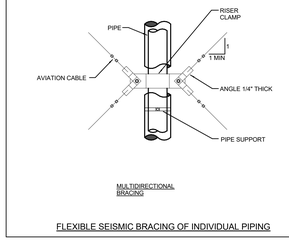
LONGITUDINAL SEISMIC CABLE BRACE (TYPE X)



SEISMIC PIPE HANGER

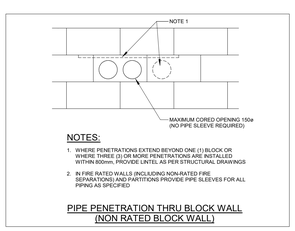
LONGITUDINAL BRACING

TRANSVERSE (LATERAL) BRACING



MULTIDIRECTIONAL BRACING

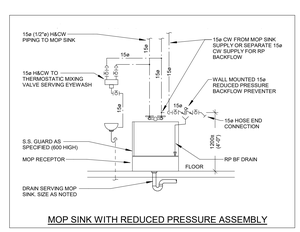
FLEXIBLE SEISMIC BRACING OF INDIVIDUAL PIPING



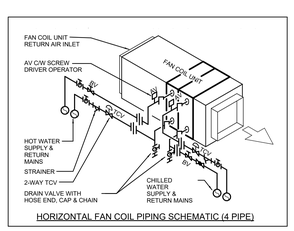
NOTES:

1. WHERE PENETRATIONS EXTEND BEYOND ONE (1) BLOCK OR TWO (2) THREE (3) OR MORE PENETRATIONS ARE INSTALLED WITHIN 600mm, PROVIDE LINTEL AS PER STRUCTURAL DRAWINGS
2. IN FIRE RATED WALLS (INCLUDING NON-RATED FIRE SEPARATIONS) AND PARTITIONS PROVIDE PIPE SLEEVES FOR ALL PIPING AS SPECIFIED

PIPE PENETRATION THRU BLOCK WALL (NON RATED BLOCK WALL)



MOP SINK WITH REDUCED PRESSURE ASSEMBLY



HORIZONTAL FAN COIL PIPING SCHEMATIC (4 PIPE)

55 Northland Road, Waterloo, ON, N2V 1Y8
Phone: 519-772-2222
Website: deiassociates.ca
Project Number: 20287

DEI Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC

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PROFESSIONAL ENGINEERS ONTARIO — Nov 4 26 — M.B. WHITE — 100149074 — PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

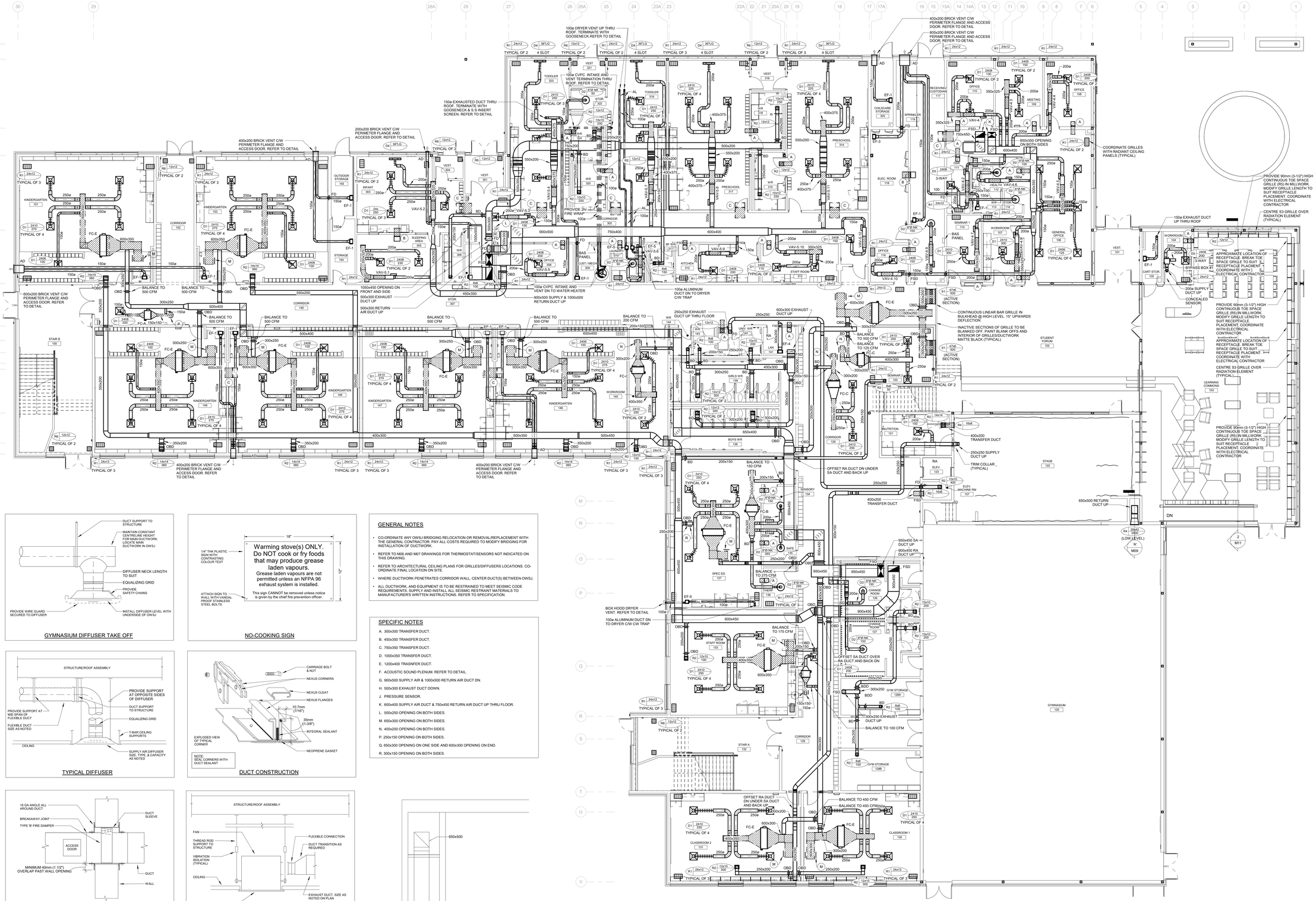
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

SECOND FLOOR - PIPING PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-8384 Fax: (905) 607-8280

SCALE	1 : 100
PROJECT	20287
DATE	NOV 2021
DRAWN	MB
CHECKED	MW
DRAWING	M08
PRINT DATE	2026-11-04 4:40:05 PM
REVIT FILE	T:\2015\15121\02\Revit.RVT



GYMNASIUM DIFFUSER TAKE OFF

NO-COOKING SIGN

GENERAL NOTES

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SPECIFIC NOTES

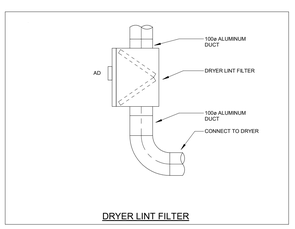
A. 300x300 TRANSFER DUCT.
B. 450x350 TRANSFER DUCT.
C. 750x350 TRANSFER DUCT.
D. 1000x350 TRANSFER DUCT.
E. 1200x400 TRANSFER DUCT.
F. ACOUSTIC SOUND PLENUM. REFER TO DETAIL.
G. 900x500 SUPPLY AIR & 1000x500 RETURN AIR DUCT DN.
H. 500x300 EXHAUST DUCT DOWN.
J. PRESSURE SENSOR.
K. 600x400 SUPPLY AIR DUCT & 750x450 RETURN AIR DUCT UP THRU FLOOR.
L. 500x250 OPENING ON BOTH SIDES.
M. 650x300 OPENING ON BOTH SIDES.
N. 400x200 OPENING ON BOTH SIDES.
P. 250x150 OPENING ON BOTH SIDES.
Q. 650x300 OPENING ON ONE SIDE AND 600x300 OPENING ON END.
R. 300x150 OPENING ON BOTH SIDES.

TYPICAL DIFFUSER

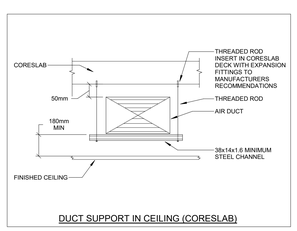
DUCT CONSTRUCTION

FIRE DAMPER INSTALLATION (TYPE 'B')

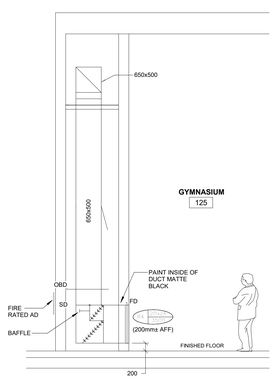
CEILING EXHAUST FAN



DRYER LINT FILTER



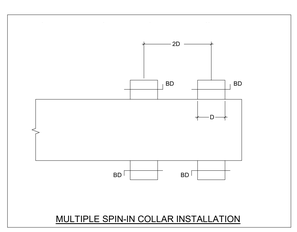
DUCT SUPPORT IN CEILING (CORESLAB)



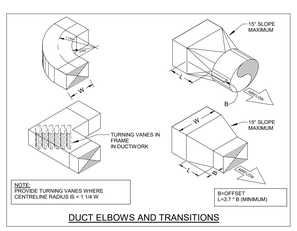
SECTION 'A'

GROUND FLOOR VENTILATION PLAN

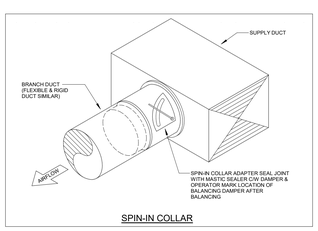
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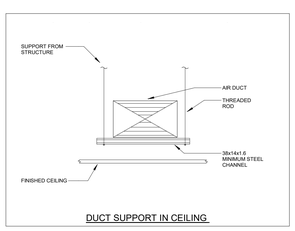
MULTIPLE SPIN-IN COLLAR INSTALLATION



DUCT ELBOWS AND TRANSITIONS



SPIN-IN COLLAR



DUCT SUPPORT IN CEILING

55 Northland Road, Waterloo, ON, N2V 1Y8
Phone: 519-772-2032
Website: deiassociates.ca
Project Number: 25287

Consulting Engineers

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5	ISSUED FOR TENDER	26.11.04
4	REISSUED FOR BUILDING PERMIT	26.09.08
3	ISSUED FOR TENDER	26.06.08
2	ISSUED FOR PERMIT	26.03.06
1	ISSUED FOR 85% COST ESTIMATE	26.03.06

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PROFESSIONAL ENGINEER
Nov 4 26
M. E. WHITE
100145074
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

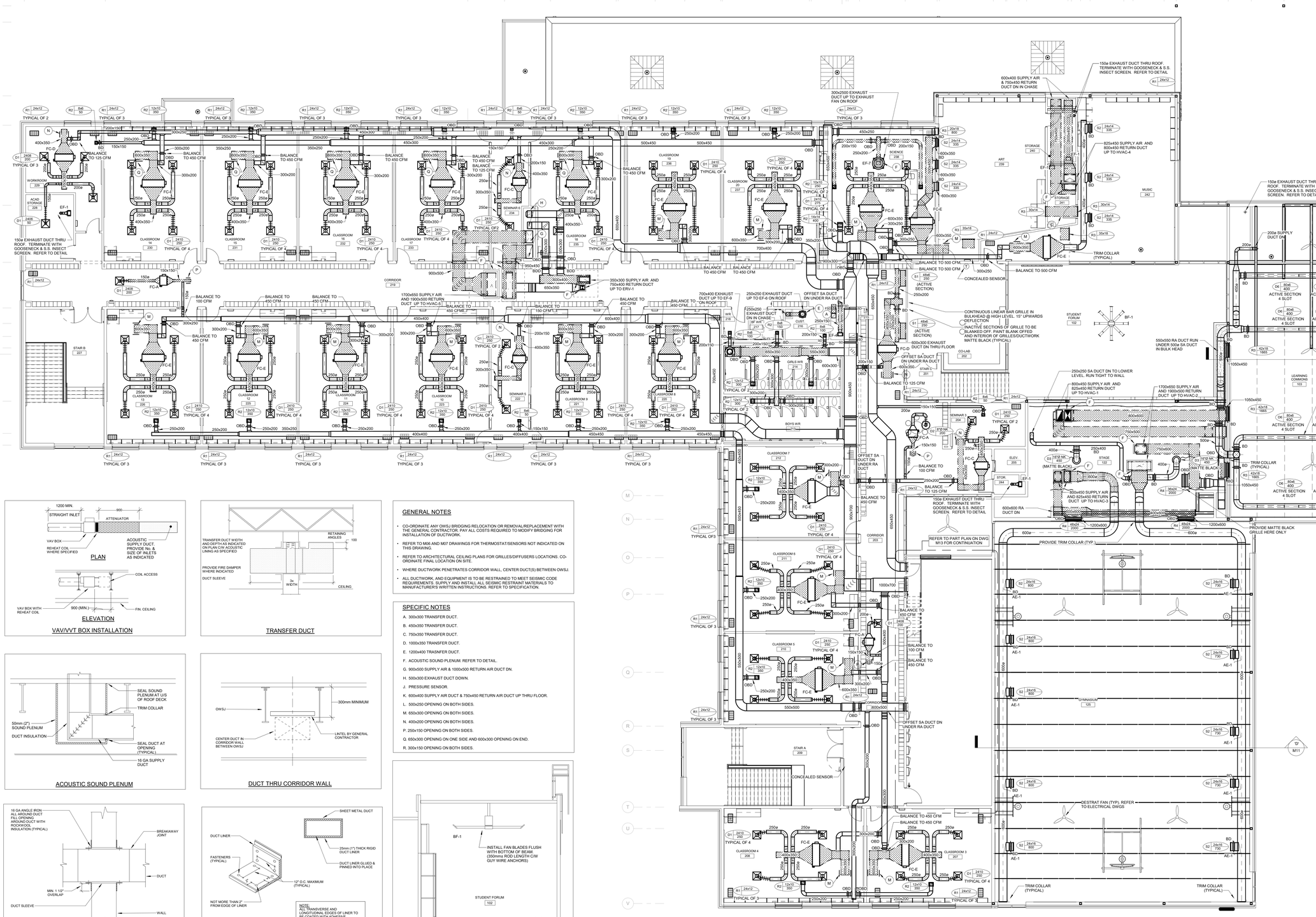
HALTON CATHOLIC DISTRICT SCHOOL BOARD

GROUND FLOOR - VENTILATION PLAN

HOSSACK & ASSOCIATES ARCHITECTS

4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-6264 Fax (905) 607-6266

SCALE	1 : 100
PROJECT	20287
DATE	NOV 2021
DRAWN	MB
CHECKED	MW
DRAWING	M09
PRINT DATE	2026-11-04 4:40:13 PM
REVIT FILE	T:\2015\1512102\Revit.RVT



SECOND FLOOR VENTILATION PLAN

SCALE: 1 : 100

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B. 450x350 TRANSFER DUCT.

C. 750x350 TRANSFER DUCT.

D. 1000x350 TRANSFER DUCT.

E. 1200x400 TRANSFER DUCT.

F. ACOUSTIC SOUND PLENUM. REFER TO DETAIL.

G. 900x500 SUPPLY AIR & 1000x500 RETURN AIR DUCT DN.

H. 500x300 EXHAUST DUCT DOWN.

J. PRESSURE SENSOR.

K. 600x400 SUPPLY AIR DUCT & 750x450 RETURN AIR DUCT UP THRU FLOOR.

L. 500x250 OPENING ON BOTH SIDES.

M. 650x300 OPENING ON BOTH SIDES.

N. 400x200 OPENING ON BOTH SIDES.

P. 250x150 OPENING ON BOTH SIDES.

Q. 650x300 OPENING ON ONE SIDE AND 600x300 OPENING ON END.

R. 300x150 OPENING ON BOTH SIDES.

VAV/VVT BOX INSTALLATION

TRANSFER DUCT

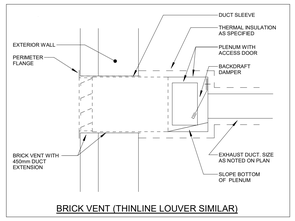
ACOUSTIC SOUND PLENUM

DUCT THRU CORRIDOR WALL

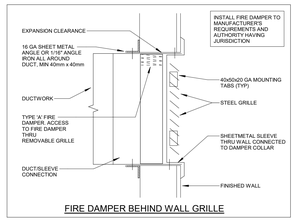
DUCT THRU NON RATED FIRE SEPARATION

ACOUSTIC LINING

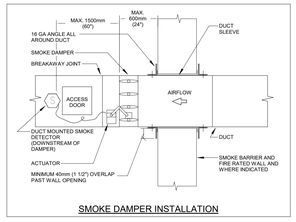
BF-1 MOUNTING DETAIL



BRICK VENT (THINLINE LOUVER SIMILAR)



FIRE DAMPER BEHIND WALL GRILLE



SMOKE DAMPER INSTALLATION

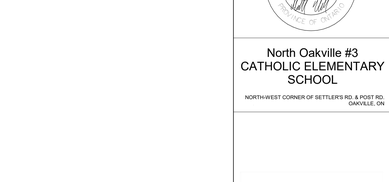
DEI
55 Northland Road, Waterloo, ON, N2V 1Y8
Phone: 519-772-3310
Website: deiassociates.ca
Project Number: 20287

Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

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North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

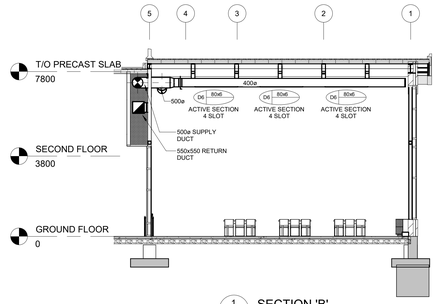
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

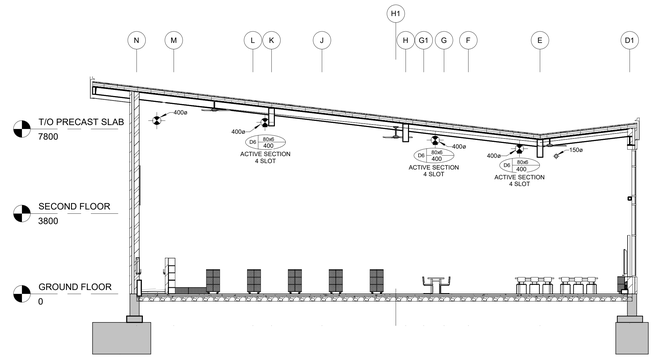
SECOND FLOOR - VENTILATION PLAN

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4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-6264 Fax (905) 607-6266

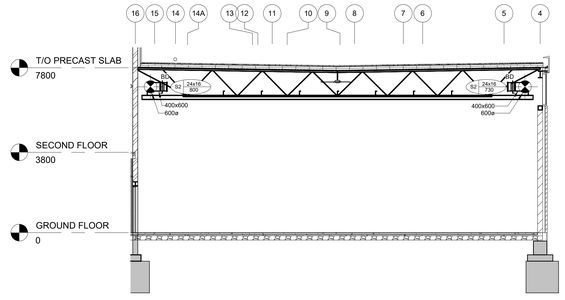
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DATE	NOV 2021
DRAWN	MB
CHECKED	MW
DRAWING	M10
PRINT DATE	2026-11-04 4:40:21 PM
REVIT FILE	T:\2015\15121\02\Revit.RVT



1 M11 SECTION 'B'
SCALE: 1 : 100



2 M11 Section 'C'
SCALE: 1 : 100



3 M11 Section 'D'
SCALE: 1 : 100

55 Northland Road,
Waterloo, ON, N2V 1Y8
Phone: 519-772-2222
Website: deiassociates.ca
Project Number: 22287

DEI Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC

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NO.	DESCRIPTION	DATE
5	ISSUED FOR TENDER	26.11.04
3	ISSUED FOR TENDER	26.06.08

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LICENSED PROFESSIONAL ENGINEER
Nov 4 26
M.B. WHITE
100149736
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

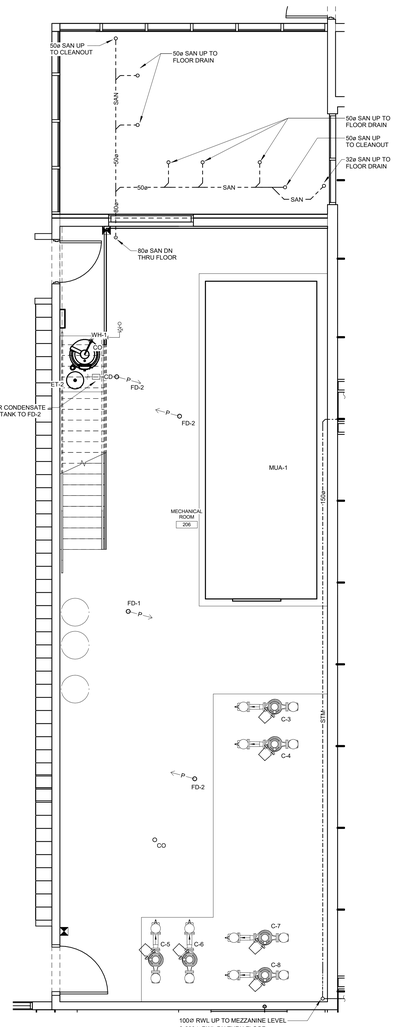
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

VENTILATION SECTIONS

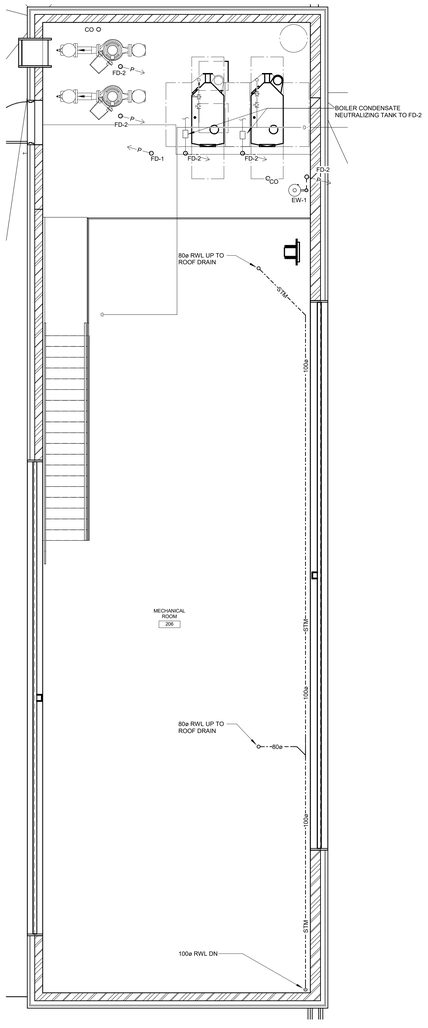
HOSSACK & ASSOCIATES ARCHITECTS
A.2150, DUNDAS DRIVE,
MISSISSAUGA, ONTARIO L5L 5M8
TEL (905) 607-8254 FAX (905) 607-8296

SCALE 1 : 100	PROJECT 20287
DATE NOV 2021	
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PRINT DATE	2026-11-04 4:40:22 PM
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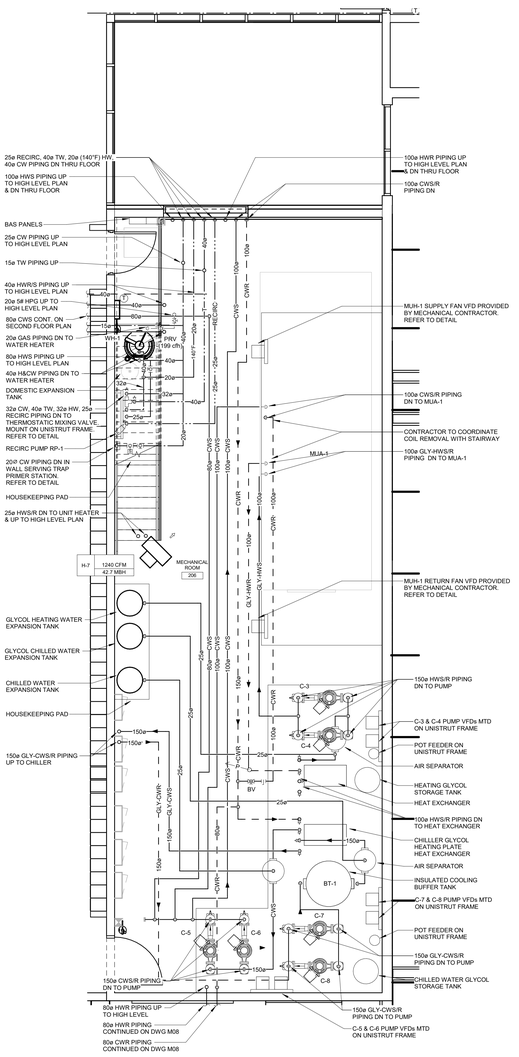
SECOND FLOOR MECHANICAL PARTIAL PLAN - SANITARY

SCALE: 1 : 50



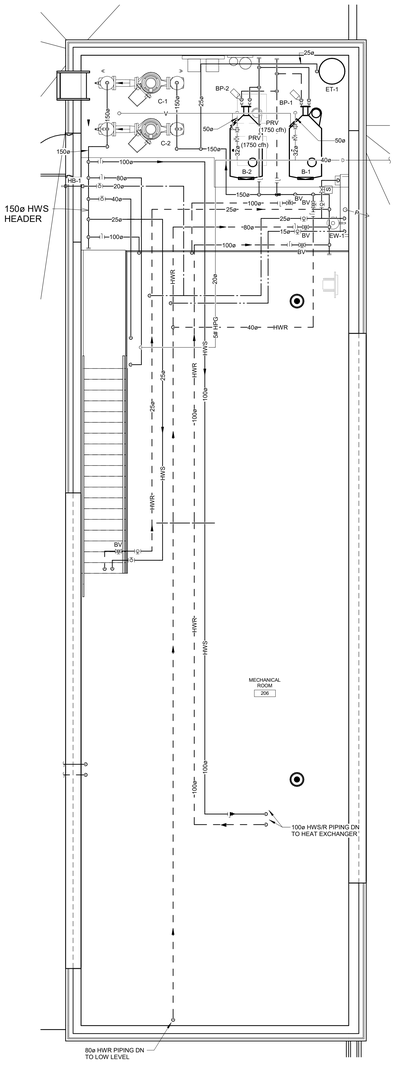
MECHANICAL MEZZANINE PART PLAN - (2ND LEVEL) ABOVE FLOOR SANITARY

SCALE: 1 : 50



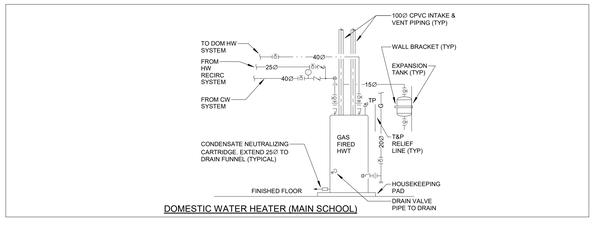
SECOND FLOOR MECHANICAL PARTIAL PLAN - PIPING

SCALE: 1 : 50

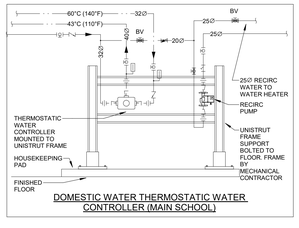


MECHANICAL MEZZANINE PART PLAN - (2ND LEVEL) PIPING

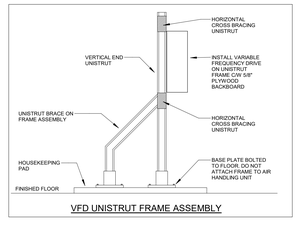
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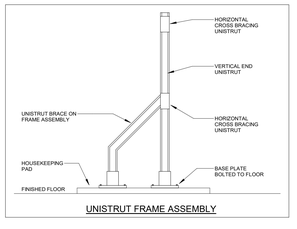
DOMESTIC WATER HEATER (MAIN SCHOOL)



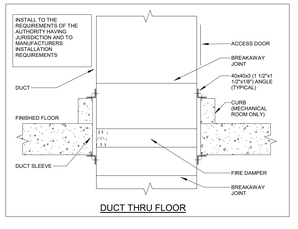
DOMESTIC WATER THERMOSTATIC WATER CONTROLLER (MAIN SCHOOL)



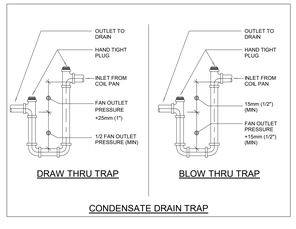
VFD UNISTRUT FRAME ASSEMBLY



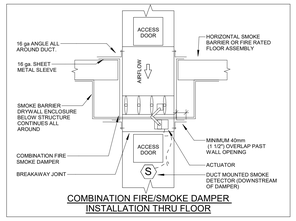
UNISTRUT FRAME ASSEMBLY



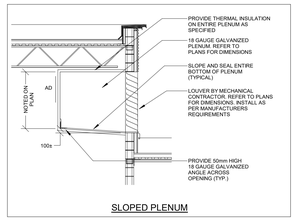
DUCT THRU FLOOR



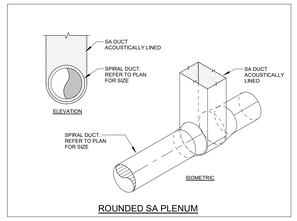
CONDENSATE DRAIN TRAP



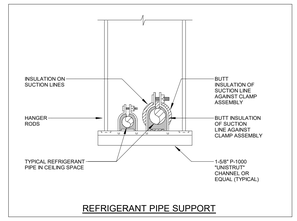
COMBINATION FIRE/SMOKE DAMPER INSTALLATION THRU FLOOR



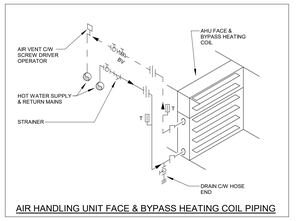
SLOPED PLENUM



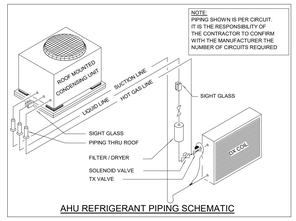
ROUNDED SA PLENUM



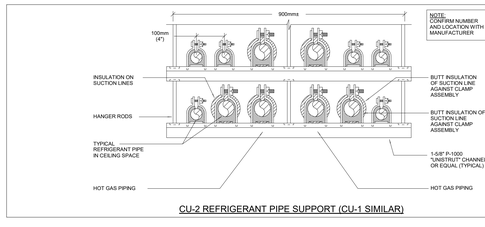
REFRIGERANT PIPE SUPPORT



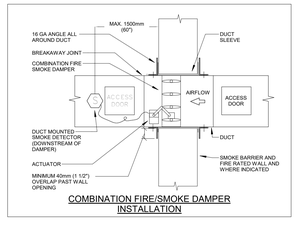
AIR HANDLING UNIT FACE & BYPASS HEATING COIL PIPING



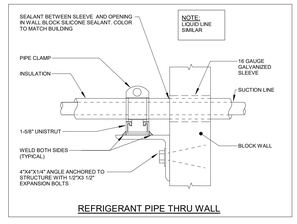
AHU REFRIGERANT PIPING SCHEMATIC



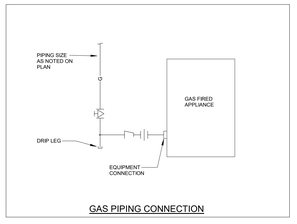
CU-2 REFRIGERANT PIPE SUPPORT (CU-1 SIMILAR)



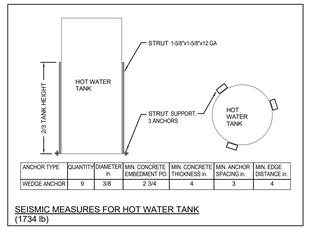
COMBINATION FIRE/SMOKE DAMPER INSTALLATION



REFRIGERANT PIPE THRU WALL



GAS PIPING CONNECTION



ANCHOR TYPE	QUANTITY	DIAMETER in.	MIN. CONCRETE EMBEDMENT PO.	MIN. CONCRETE THICKNESS in.	MIN. ANCHOR SPACING in.	MIN. EDGE DISTANCE in.
WEDGE ANCHOR	9	3/8	2 3/4	4	3	4

SEISMIC MEASURES FOR HOT WATER TANK (1734 lb)

DEI
Consulting Engineers
55 Northland Road, Waterloo, ON, N2V 1Y8
Phone: 519-772-3310
Website: deiassociates.ca
Project Number: 20287

MECHANICAL | ELECTRICAL | AQUATIC

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NO.	DESCRIPTION	DATE
5	ISSUED FOR TENDER	26.11.04
3	ISSUED FOR TENDER	26.06.08
2	ISSUED FOR PERMIT	26.03.06
1	ISSUED FOR 85% COST ESTIMATE	26.03.06

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LICENSED PROFESSIONAL ENGINEER
Nov 4 26
M.B. WHITE
100149978
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

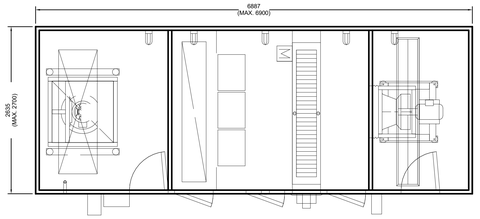
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

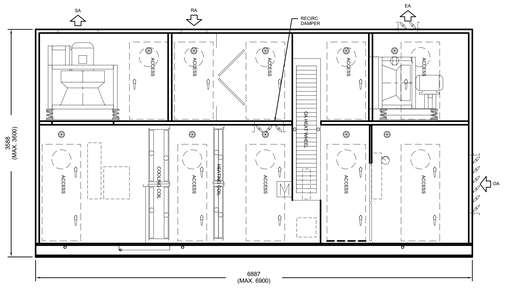
MECHANICAL ROOM PARTIAL PLANS

HOSSACK & ASSOCIATES ARCHITECTS
4 2100 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8284 Fax (905) 607-8290

SCALE	As indicated
PROJECT	20287
DATE	NOV 2021
DRAWN	MB
CHECKED	MW
DRAWING	M12
PRINT DATE	2026-11-04 4:40:26 PM
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MUA-1 PLAN



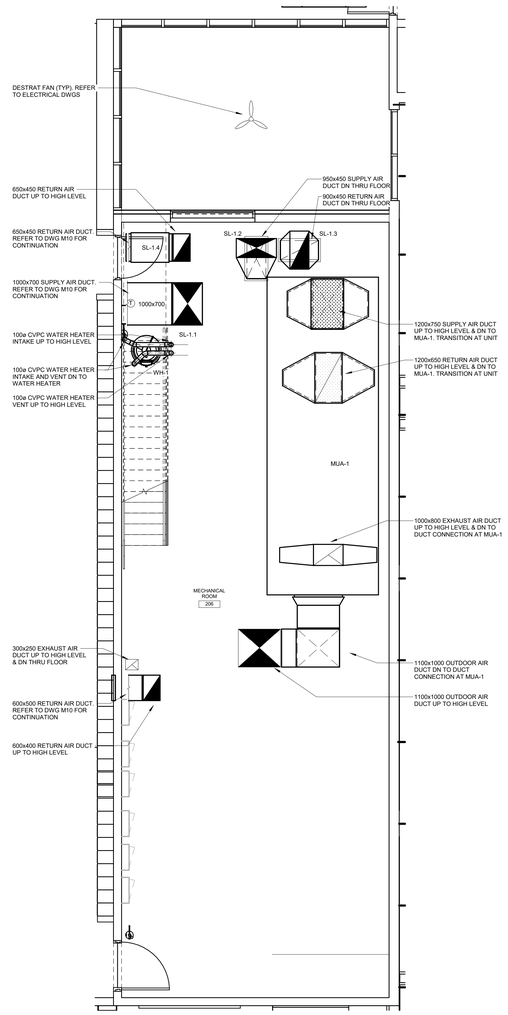
MUA-1 ELEVATION

MUA DETAIL

SCALE: N.T.S.

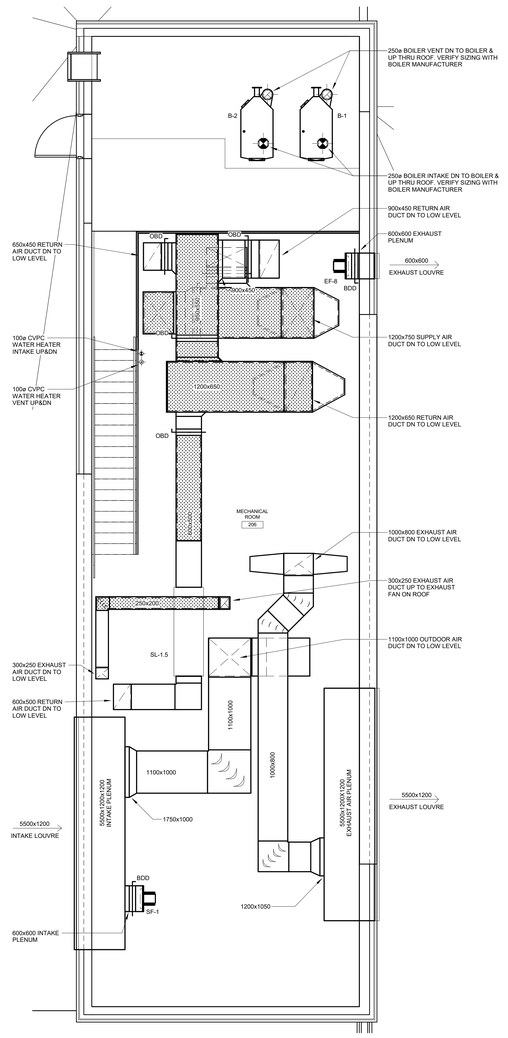
UNIT DETAIL NOTES:

1. NOTED 'MAX' DIMENSIONS ARE THE APPROXIMATE LARGEST DIMENSION PERMITTED TO ALLOW FOR SUITABLE CLEARANCE/SERVICE SPACE AROUND THE UNIT. IF AN 'ALTERNATE' UNIT IS SELECTED IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THAT THE UNIT FITS IN THE ALLOCATED SPACE & WORKS WITH THE DESIGN AS SHOWN. THE PROPOSED LAYOUT ABIDES BY THE SPECIFIC SERVICE/REQUIRED CLEARANCES OF THAT ALTERNATE UNIT AND THAT THE ALTERNATE UNIT DOES NOT EXCEED THE NOTED 'MAX' DIMENSION.
2. DAMPERS ARE SUPPLIED & INSTALLED BY THE AHU MANUFACTURER. DAMPER OPERATORS ARE SUPPLIED & INSTALLED BY THE BAS CONTRACTOR.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE AIR HANDLING UNIT MANUFACTURER TO DETERMINE WHICH UNITS SHALL BE DELIVERED IN SECTIONS AND ASSEMBLED ON SITE IN PLACE. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL THE UNIT IN PLACE TO THE STANDARDS OF THE MANUFACTURER.



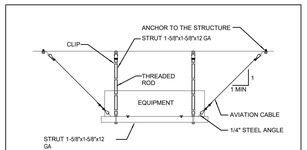
SECOND FLOOR MECHANICAL PARTIAL PLAN - HVAC

SCALE: 1 : 50

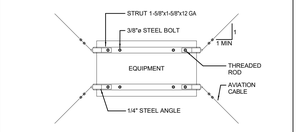


MECHANICAL MEZZANINE PART PLAN - HVAC

SCALE: 1 : 50



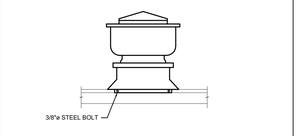
ELEVATION



PLAN

1. REINFORCE THE RODS WITH A 1-5/8in. x 1-5/8in. x 12 GA METAL STRUT IF THE LENGTH OF THE ROD IS MORE THAN 16in.
2. CABLES MUST BE ORIENTED FROM 45°.
3. INSTALL 45° STEEL ANGLES, 1/4in. THICK FOR ANCHORING THE AVIATION CABLES.
4. BRACING CABLES MUST BE PRE-STRETCHED 7x 19 AVIATION CABLES.
5. FOR CABLE ANCHORING AROUND JOISTS, WIND THE CABLE AT THE JOIST.

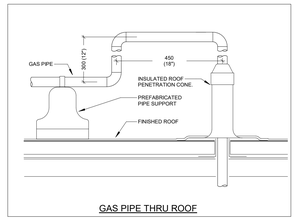
BRACING METHODS FOR SUSPENDED FANS



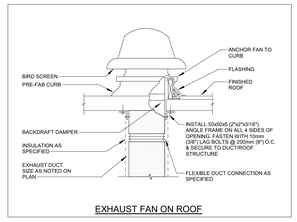
INSTALL ON EACH SIDE OF THE EQUIPMENT:

2 x 3/8" DIAMETER LAG BOLTS ON EACH SIDE FOR A TOTAL OF 8 LAG BOLTS

SEISMIC MEASURES FOR EXHAUST FAN
(187lb AND LESS)



GAS PIPE THRU ROOF



EXHAUST FAN ON ROOF

DEI
55 Northland Road, Waterloo, ON, N2V 1Y8
Phone: 519-772-2232
Website: deiassociates.ca
Project Number: 20287

Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

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3	ISSUED FOR TENDER	26.06.08
2	ISSUED FOR PERMIT	26.03.06
1	ISSUED FOR 85% COST ESTIMATE	26.03.06

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North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

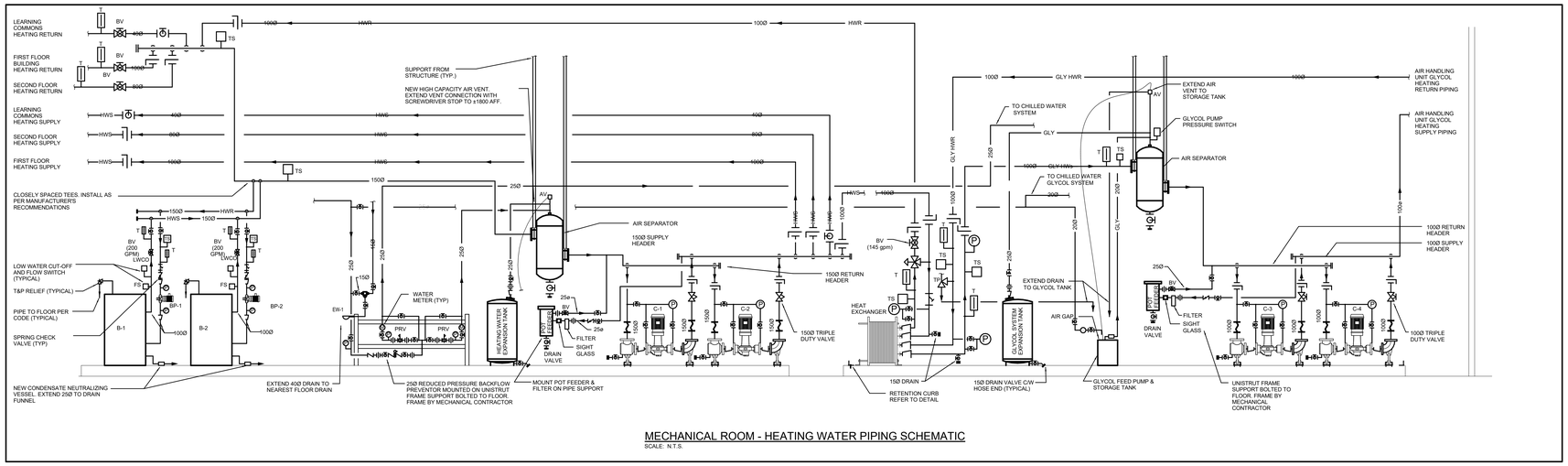
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

MECH ROOM PART PLANS, DETAILS & UNIT DETAIL

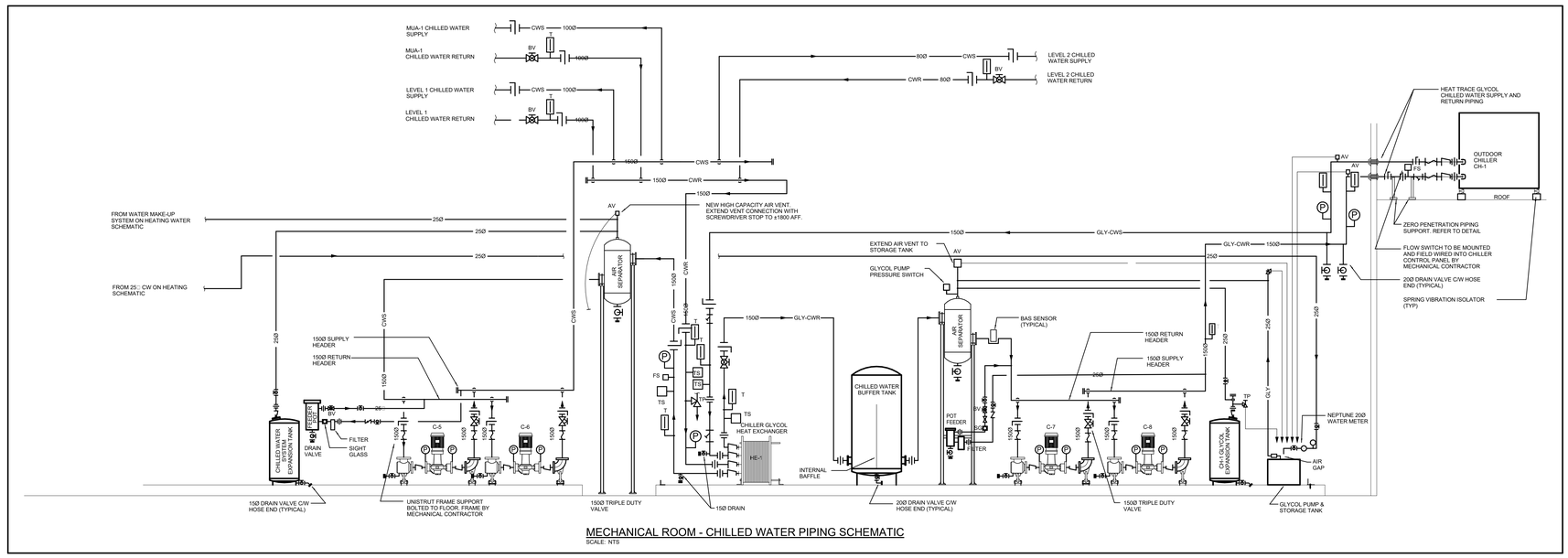
HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-8294 Fax (905) 607-8295

SCALE: As indicated	PROJECT: 20287
DATE: NOV 2021	
DRAWN: MB	DRAWING: M13
CHECKED: MW	
PRINT DATE	2026-11-04 4:40:27 PM
REVIT FILE	T:\2015\15121\02\Revit.RVT



MECHANICAL ROOM - HEATING WATER PIPING SCHEMATIC

SCALE: N.T.S.



MECHANICAL ROOM - CHILLED WATER PIPING SCHEMATIC

SCALE: NTS

55 Northland Road,
Waterloo, ON, N2V 1Y8
Phone: 519 772 2222
Website: deiassociates.ca
Project Number: 22287

DEI Consulting Engineers

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North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

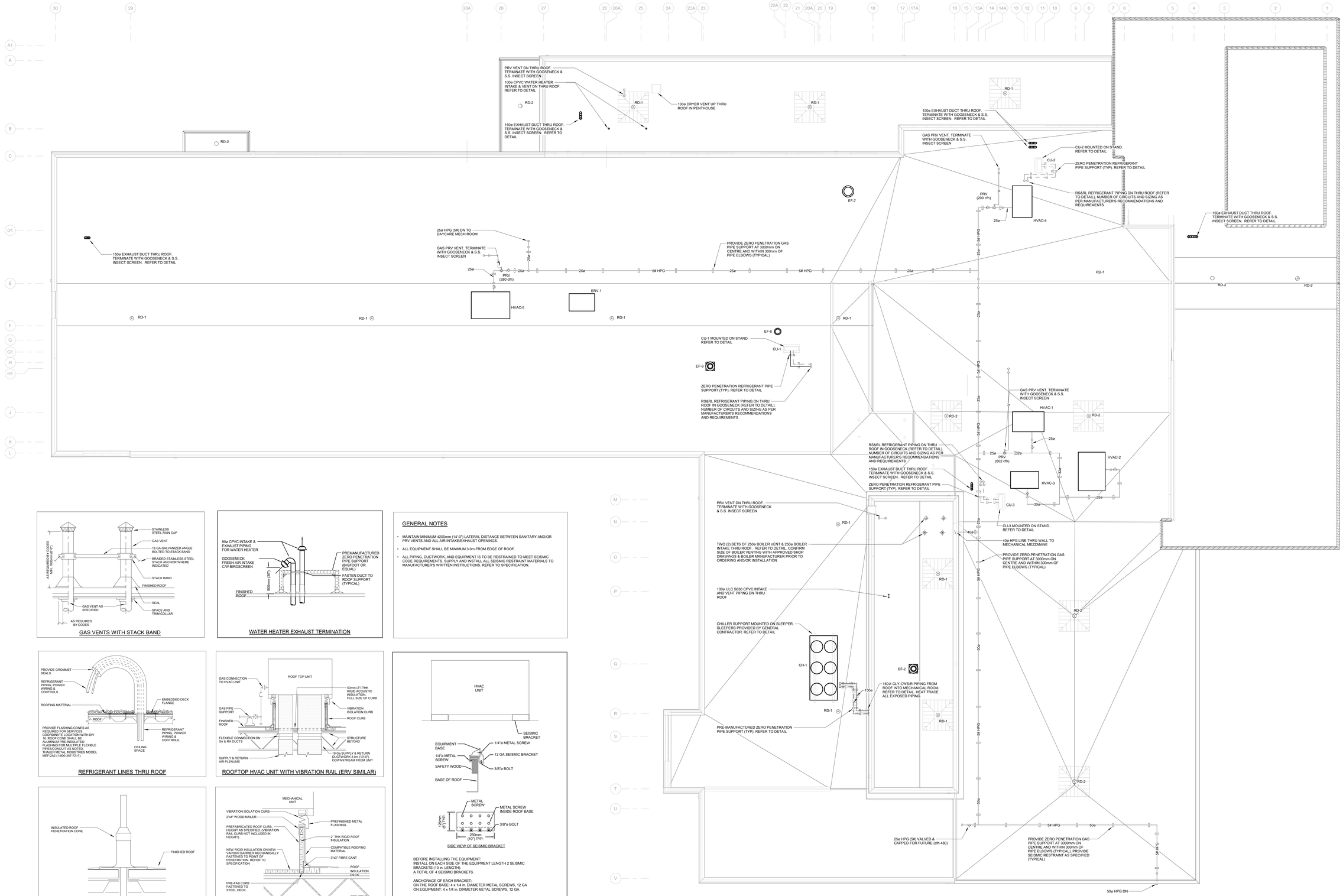
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

SCHEMATICS

HOSSACK & ASSOCIATES ARCHITECTS
4-2100 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-6264 Fax (905) 607-8290

SCALE	PROJECT 20287
DATE NOV 2021	
DRAWN MB	DRAWING
CHECKED MW	M14
PRINT DATE	2026-11-04 4:40:27 PM
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ROOF PLAN
SCALE: 1 : 100

GAS VENTS WITH STACK BAND

WATER HEATER EXHAUST TERMINATION

GENERAL NOTES

- MAINTAIN MINIMUM 4200mm (14'-0") LATERAL DISTANCE BETWEEN SANITARY AND/OR PRV VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0m FROM EDGE OF ROOF.
- ALL PIPING, DUCTWORK, AND EQUIPMENT IS TO BE RESTRAINED TO MEET SEISMIC CODE REQUIREMENTS. SUPPLY AND INSTALL ALL SEISMIC RESTRAINT MATERIALS TO MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO SPECIFICATION.

REFRIGERANT LINES THRU ROOF

ROOFTOP HVAC UNIT WITH VIBRATION RAIL (ERV SIMILAR)

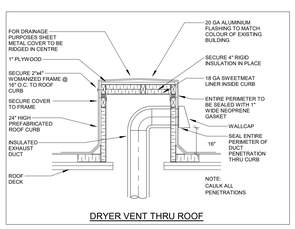
BEFORE INSTALLING THE EQUIPMENT:
INSTALL ON EACH SIDE OF THE EQUIPMENT LENGTH 2 SEISMIC BRACKETS (10 in. LENGTH).
A TOTAL OF 4 SEISMIC BRACKETS.

ANCHORAGE OF EACH BRACKET:
ON THE ROOF BASE: 4 x 1/4 in. DIAMETER METAL SCREWS, 12 GA
ON EQUIPMENT: 4 x 1/4 in. DIAMETER METAL SCREWS, 12 GA

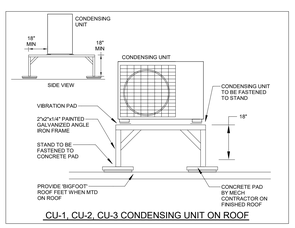
HVAC UNIT SEISMIC BRACKETS

SANITARY VENT THRU ROOF

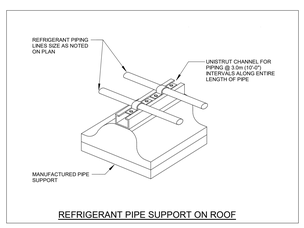
MECHANICAL UNIT ROOF CURB W/ISOLATION CURB



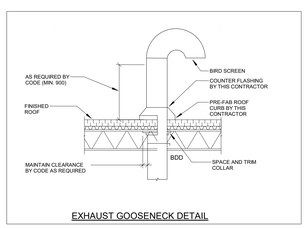
DRYER VENT THRU ROOF



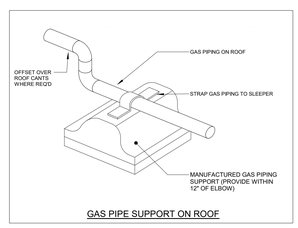
CU-1, CU-2, CU-3 CONDENSING UNIT ON ROOF



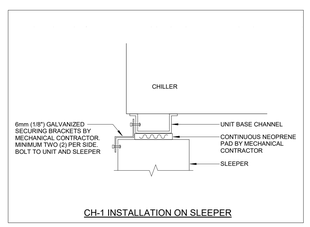
REFRIGERANT PIPE SUPPORT ON ROOF



EXHAUST GOOSENECK DETAIL



GAS PIPE SUPPORT ON ROOF



CH-1 INSTALLATION ON SLEEPER

55 Northland Road, Waterloo, ON, N2V 1Y8
Phone: 519-772-2222
Website: deiassociates.ca
Project Number: 20287

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project.
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NO	DESCRIPTION	DATE
5	ISSUED FOR TENDER	26.11.04
3	ISSUED FOR TENDER	26.06.08
2	ISSUED FOR PERMIT	26.03.06
1	ISSUED FOR 85% COST ESTIMATE	26.03.06

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LICENSED PROFESSIONAL ENGINEER
Nov 4 26
M.B. WHITE
100149078
PROVINCE OF ONTARIO

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD.
OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

ROOF PLAN & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-6284 Fax: (905) 607-6080

SCALE	1 : 100
PROJECT	20287
DATE	NOV 2021
DRAWN	MB
CHECKED	MW
DRAWING	M15
PRINT DATE	2026-11-04 4:40:31 PM
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ELECTRICAL SERVICE SCOPE OF WORK - UTILITY	
OAKVILLE HYDRO (UTILITY) WILL PROVIDE THE FOLLOWING WORK.	
H1	SUPPLY AND INSTALLATION OF PRIMARY CONDUCTORS FROM UTILITY POLE TO PAD MOUNT TRANSFORMER.
H2	SUPPLY AND INSTALLATION OF PRIMARY FUSING AND PRIMARY CONDUCTORS AT POINT OF SUPPLY.
H3	SUPPLY AND INSTALLATION OF PAD MOUNT TRANSFORMER.
H4	CONNECTION OF PRIMARY CONDUCTORS AT PAD MOUNT TRANSFORMER.
H5	SUPPLY AND INSTALLATION OF METERING INSTRUMENTATION.
H6	CONNECTION OF SECONDARY CONDUCTORS AT PAD MOUNT TRANSFORMER.

ELECTRICAL SERVICE SCOPE OF WORK - CONTRACTOR	
THE ELECTRICAL CONTRACTOR FOR THE BUILDING OWNER (CUSTOMER) SHALL BE RESPONSIBLE FOR THE FOLLOWING:	
C1	SUPPLY AND INSTALLATION OF SECONDARY DUCTBANK AND CONDUCTORS FROM PAD MOUNT TRANSFORMER TO MAIN ELECTRICAL ROOM.
C2	SUPPLY AND INSTALLATION OF 600V MAIN SWITCHBOARD IN MAIN ELECTRICAL ROOM.
C3	SUPPLY OF SECONDARY CABLES FROM PAD MOUNT TRANSFORMER TO MAIN SWITCHBOARD. PROVIDE 8.0M OF SLACK FOR CONDUCTORS TERMINATING AT PADMOUNT TRANSFORMER FOR CONNECTION BY UTILITY.
C4	SUPPLY AND INSTALLATION OF METER CABINET, METERING ANTENNA VOICE LINE AND OUTLET PER PLANS AND TO SUIT UTILITY REQUIREMENTS.
C5	ALL INSTALLATIONS MUST BE IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND INSPECTED BY THE ELECTRICAL SAFETY AUTHORITY PRIOR TO SERVICE CONNECTION.
C6	ALL WORK SHALL MEET UTILITY REQUIREMENTS AND INSPECTION. ELECTRICAL CONTRACTOR TO COORDINATE WITH UTILITY PRIOR TO PROCEEDING.
C7	SUPPLY AND INSTALLATION OF TRANSFORMER CONCRETE PAD.
C8	SUPPLY AND INSTALLATION OF GROUND LOOP CONDUCTORS AND GROUND RODS AT PAD MOUNT TRANSFORMER.
C9	SUPPLY AND INSTALLATION OF PROTECTIVE BOLLARDS FOR PAD MOUNT TRANSFORMER.
C10	PROVIDE TRANSFORMER LUGS AS DETAILED
C11	SUPPLY AND INSTALLATION OF PRIMARY DUCTBANK UP TO PROPERTY LINE

GENERAL SITE NOTES

- ALL DUCTBANK AND TRANSFORMER PAD INSTALLATIONS MUST CONFORM TO OAKVILLE HYDRO STANDARDS. CONFIRM ALL REQUIREMENTS PRIOR TO INSTALLATION.
- ALL UNDERGROUND ELECTRICAL DUCTS AND SERVICES SHALL BE COORDINATED WITH CIVIL, SITE LANDSCAPING AND OTHER SITE SERVICES.
- CO-ORDINATE ALL DUCT CROSSINGS. PROVIDE ADDITIONAL EXCAVATION DEPTH TO SUIT.

SPECIFIC SITE NOTES

1	INDICATES APPROXIMATE LOCATION OF MAIN ELECTRICAL/METER ROOM. REFER TO FLOOR PLANS FOR EXACT LOCATION.
2	INDICATES THE APPROXIMATE LOCATION OF GROUND FLOOR MAIN I.T. ROOM. REFER TO FLOOR PLANS FOR EXACT LOCATION.
3	INDICATES LOCATION OF NEW PAD MOUNTED TRANSFORMER ON NEW CONCRETE BASE. REFER TO DETAILS AS NOTED
4	INDICATES APPROXIMATE LOCATION OF NEW PRIMARY DUCTS. ELECTRICAL CONTRACTOR TO PROVIDE PRIMARY DUCT UP TO PROPERTY LINE AS DETAILED. CONFIRM EXACT LOCATION WITH UTILITY.
5	INDICATES PROPOSED ROUTING OF SECONDARY DUCT BANK C/W FEEDERS FROM PAD MOUNT TRANSFORMER TO MAIN SWITCHBOARD IN MAIN ELECTRICAL ROOM.
6	INDICATES WALL MOUNTED FIXTURE TO BE MOUNTED AT 3353mm (11') A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.
7	TERMINATE ALL INCOMING COMMUNICATIONS DUCTS (TELEPHONE/FIBRE/SPARE) DUCTS AT PROPERTY LINE FOR FUTURE EXTENSION BY LOCAL AUTHORITIES. REFER TO FLOOR PLANS FOR TERMINATION OF DUCTS WITHIN BUILDING.
8	INDICATES PARKING LOT FIXTURE MOUNTED ON CONCRETE POLE BASE AND SET BACK MIN. 1000mm FROM CURB OR SIDEWALK (WHERE APPLICABLE). AS DETAILED.
9	INDICATES LOCATION OF PYLON SIGN. PROVIDE DUCTS FROM INTERNAL SERVICE POINT IN ELECTRICAL AND LAN ROOM FOR POWER AND DATA. CONFIRM EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. PROVIDE SEALED PULL BOXES AS REQUIRED.
10	INDICATES TWO UNDERGROUND PRECAST ELECTRICAL JUNCTION BOXES FOR TERMINATION OF DUCTS TO PORTABLES AS NOTED. TERMINATE POWER AND AUXILIARY SERVICE IN SEPARATE BOXES AT EACH GROUPING OF PORTABLES. TERMINATE IN BELL ENDS. JUNCTION BOX SHALL BE EQUAL TO ACTON PRECAST 810MM (24") SQUARE HANDWELL C/W 2–100MM OPENINGS PER SIDE AND SQUARE CAST IRON WITH CIRCULAR CLOSE COVER EQUAL TO ONTARIO PROVINCIAL STANDARD DRAWING #OPSD 401.010. INSTALL BOXES ON 150MM GRANULAR 'B' BASE. ENSURE COVER OF JUNCTION BOX IS INSTALLED FLUSH WITH ASPHALT SURFACE. CONFIRM EXACT LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. AS DETAILED.
11	INDICATES PROPOSED ROUTING OF POWER DUCTS FOR PORTABLES FROM ELECTRICAL ROOM. AS DETAILED.
12	INDICATES PROPOSED ROUTING OF AUXILIARY DUCTS FOR PORTABLES FROM DEMARCATION ROOM AS DETAILED.
13	INDICATES CANOPY MOUNTED DOWNLIGHT. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
14	INDICATES SPOTLIGHTS MOUNTED TO EDGE OF CANOPY. FIXTURE SHALL BE AIMED IN A WAY THAT NO LIGHTING SHALL BE EMITTED ABOVE THE HORIZONTAL. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
15	INDICATES PROTECTIVE BOLLARDS.

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Project Numberunder
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

Professional Engineer Province of Ontario
Limited Engineering Licensee
Name: O.G. MCCONKEY
Number: 100170766
Limitations: Related design, reporting and specification for the electrical systems in the project identified above and conformity to these systems in new and renovation construction.
Association of Professional Engineers of Ontario
2026-11-04

NO.	DESCRIPTION	DATE
2	ISSUED FOR TENDER	26.11.04
1	ISSUED FOR PERMIT	26.03.06

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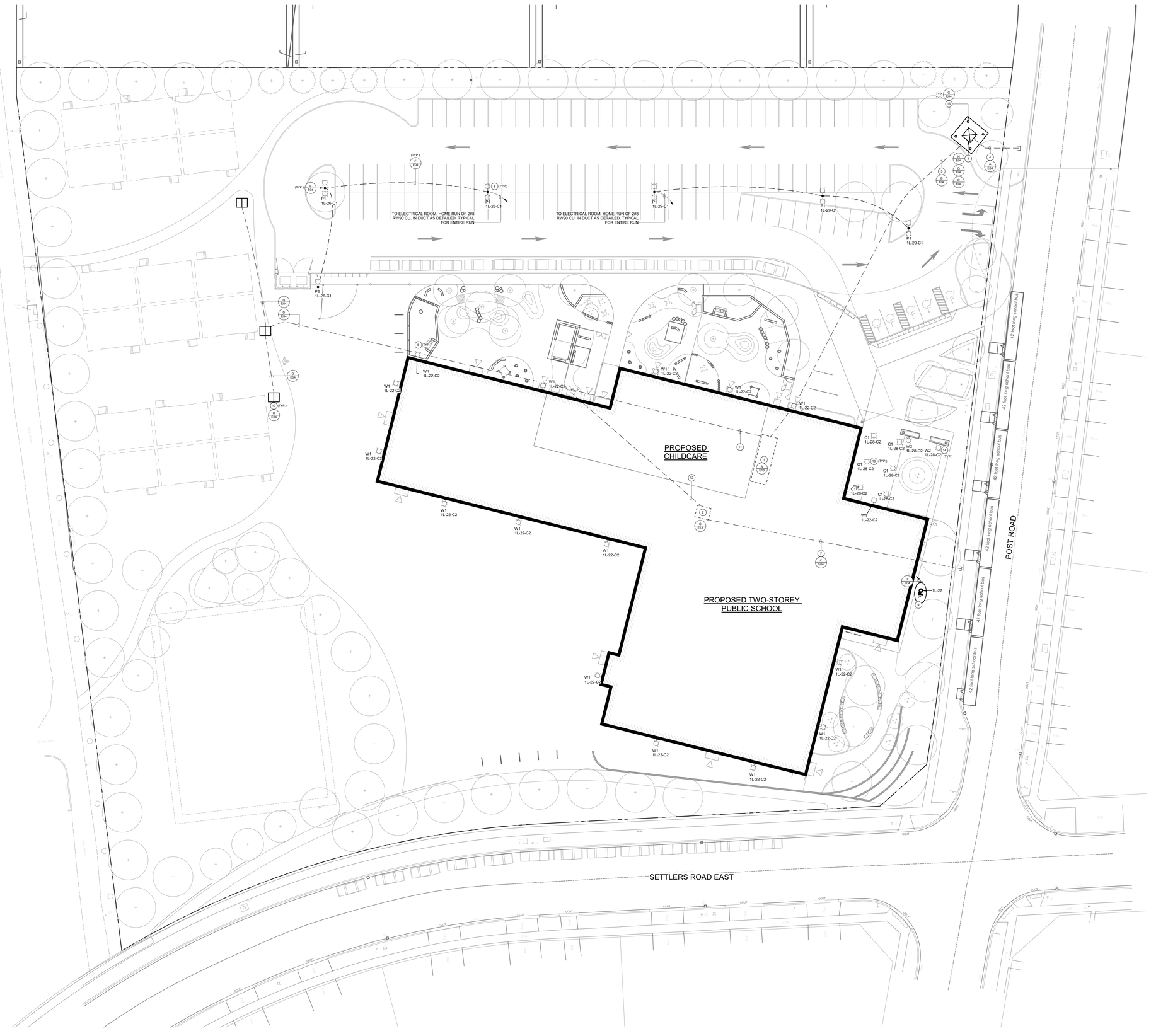
North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

SITE PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4 (110) DUNDAS DRIVE
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SCALE 1 : 250	PROJECT 16220
DATE 2026.04.17	
DRAWN D.V	DRAWING E01
CHECKED R.L.	
PRINT DATE	2026-11-04 10:23:54 AM
REVIT FILE	T:\2015\15121\02\Revit.RVT



SITE PLAN
SCALE: 1 : 250

LIGHT FIXTURE SCHEDULE (INTERIOR)

Item	Manufacturer/Catalog Number	Voltage	Lamp: Type	Lamp: Lumens	Lamp: Colour Temperature	Lamp: Wattage	Lamp: CRI	Mounting	Required Listings	Description
A1	COOPER CAT. #24CZ2-LD5-40-UNV-L840-CD-1 LITHONIA CAT. #2BLT4 40L ADSM MVOLT GZ1 LP840 GENLYTE CFI CAT. #2FGXG43L840-4-R-UNV-DIM	120V	LED	4257	4000K	30.4W	80	RECESSED	N/A	2'X4' (610mmX1220mm) VOLUMETRIC LED TROFFER C/W SMOOTH FROSTED ACRYLIC CENTRE LENS, 1% 0-10V DIMMING DRIVER, AND WHITE FINISH.
A2	COOPER CAT. #14CZ2-LD5-44-UNV-L840-CD-1 LITHONIA CAT. #BLT4 48L ADSM MVOLT GZ1 LP840 GENLYTE CFI CAT. #1FGXG48L840-4-R-UNV-DIM	120V	LED	4608	4000K	34.6W	80	RECESSED	N/A	1'X4' (305mmX1220mm) VOLUMETRIC LED TROFFER C/W SMOOTH FROSTED ACRYLIC CENTRE LENS, 1% 0-10V DIMMING DRIVER, AND WHITE FINISH.
A3	COOPER CAT. #14CZ2-LD5-44-UNV-L840-CD-1-DF-14W LITHONIA CAT. #BLT4 48L ADSM MVOLT GZ1 LP840/DGA14 GENLYTE CFI CAT. #1FGXG48L840-4-R-UNV-DIM FMA14	120V	LED	4608	4000K	34.6W	80	RECESSED (DRYWALL)	N/A	1'X4' (305mmX1220mm) VOLUMETRIC LED TROFFER C/W SMOOTH FROSTED ACRYLIC CENTRE LENS, 1% 0-10V DIMMING DRIVER, WHITE FINISH, AND DRYWALL TRIM KIT.
C	COOPER CAT. #HC830D010-HM612840-61MDHWF VANTAGE CAT# AIC8VOFLED U 3040K L8060 SGC ZDM LITELINE CAT. #GEN08-IM-40-L-HW-S-N-X-N-1	120V	LED	3000	4000K	27.6W	80	RECESSED	N/A	RECESSED 8" (200mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 60 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, AND 1% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.
D1	COOPER CAT. #HC620D010-HM612840-61MDHWF VANTAGE CAT# AIC6VOFLED U 20 40K M6060 SGC ZDM LITELINE CAT. #GEN06-IS-40-L-HW-S-N-X-N-1	120V	LED	1895	4000K	20.9W	80	RECESSED	N/A	RECESSED 6" (150mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 60 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, AND 1% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.
F1	3G LIGHTING CAT. #3G-4PLI-D-D750-S80-40K-UNV-DIM-FL-XX-120-8 MARK CAT. #S4PD LLP 8FT MSL8 80CRI 40K 800LMF SCT MIN1 FLL MVOLT XXX ZT F2/72A RDCY XXXCY XCRD AXIS CAT. #TB4DLED-750-80-40-SO-8-X-UNV-DP-1- CTS(48)	120V	LED	6000	4000K	6.33W/FT	80	SUSPENDED	N/A	8' (2440mm) LONG X 4" (102mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W AIRCRAFT CABLE SUSPENSION (CHORD LENGTH TBD ON SITE), STRUCTURE MOUNTING, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.
F2	3G LIGHTING CAT. #3G-4PLI-D-D750-S80-40K-UNV-DIM-FL-XX-120-8 MARK CAT. #S4PD LLP 8FT MSL8 80CRI 40K 800LMF SCT MIN1 FLL MVOLT XXX ZT F2/72A RDCY XXXCY XCRD AXIS CAT. #TB4DLED-750-80-40-SO-8-X-UNV-DP-1- CTS(48)	120V	LED	6000	4000K	6.33W/FT	80	SUSPENDED	N/A	8' (2440mm) LONG X 4" (102mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W AIRCRAFT CABLE SUSPENSION (CHORD LENGTH TBD ON SITE), STRUCTURE MOUNTING, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.
G1	G LIGHTING CAT. #GL-2802-K-1 CAMMAN CAT. #P7105-24 5500LU 40K CLV MV WP STBD AC OAH TBD VISO CAT.# Globo.	120V	LED	6321	4000K	56W	80	SUSPENDED	N/A	30" (762mm) DIAMETER SATIN WHITE ACRYLIC GLOBE PENDANT FIXTURE. CABLE HANG LENGTH SHALL BE PROVIDED TO SUIT FIXTURE MOUNTING HEIGHT.
G2	G LIGHTING CAT. #GL-2802-G-1 CAMMAN CAT.#P7105-18 4800LU 40K CLV MV WP STBD AC OAH TBD VISO CAT.# Globo.	120V	LED	4912	4000K	42W	80	SUSPENDED	N/A	24" (610mm) DIAMETER SATIN WHITE ACRYLIC GLOBE PENDANT FIXTURE. CABLE HANG LENGTH SHALL BE PROVIDED TO SUIT FIXTURE MOUNTING HEIGHT.
G3	G LIGHTING CAT. #GL-2800-C-1 CAMMAN CAT. #P7105-16 2700LU 40K CLV MV WP STBD AC OAH TBD VISO CAT.# Globo.	120V	LED	2844	4000K	28W	80	SUSPENDED	N/A	18" (457mm) DIAMETER SATIN WHITE ACRYLIC GLOBE PENDANT FIXTURE. CABLE HANG LENGTH SHALL BE PROVIDED TO SUIT FIXTURE MOUNTING HEIGHT.
H	METALUX CAT. #SSLED-LD5-18-UNV-L840-CD-1-X-SHK-SSLED-WG1Y-U LITHONIA CAT. # REBL-AL013-MD-UVOLT-SWW9-80CRI-DWH METEOR CAT. #DSM12-150-408-UNV-STV-90-?-BRK-WG	120V	LED	18000	4000K	117	80	SUSPENDED	DLC	LED HIGHBAY FIXTURE C/W WIDE DISTRIBUTION OPTICS, SEMI-DIFFUSE ACRYLIC LENS, WIRE GUARD, AND TWO 0-10V. DIMMING DRIVERS. NOTE FIXTURE TO BE FASTENED TO UNISTRUT CHANNELS SPANNING ACROSS THE TOP OF THE BOTTOM CHORD OF THE JOISTS. SUSPEND FIXTURE EVEN WITH THE BOTTOM OF JOISTS. ENTIRE FIXTURE ASSEMBLY IS TO HAVE A WHITE FINISH.
J	DALS CAT. #6001-WH C/W #6000-JB STANPRO CAT# 67100 UCP/2WIRES/120V/4W/30K/FR/WH/STD + 67787 HARDWIREBOX ELITE CAT. #LED-HU-41-240L-30K/40K/50K-90-WH	120V	LED	250	3000K	4.5W	90	SURFACE	N/A	2.75" (70mm) DIAMETER LED UNDERCABINET PUCK FIXTURE C/W ALUMINUM HOUSING, FROSTED LENS, AND WHITE FINISH. PROVIDE C/W ONE JUNCTION BOX (C/W ONE 12" (305mm) EXTENSION CORD) PER RUN AND ALL CONNECTORS, MOUNTING ACCESSORIES, ETC. REQUIRED TO PROVIDE A COMPLETE INSTALLATION. ARCHITECT TO CONFIRM FINISH.
K	COOPER CAT. #HU1148D9SP C/W #HU109 LITHONIA CAT# 2x UPLD 22IN SWW4 90CRI WH + UCD JB M12 LEVITON CAT. #2X LPU2241-P	120V	LED	1540	4000K	21W	80	SURFACE	N/A	4' (1220mm) LONG LOW PROFILE LED UNDERCABINET FIXTURE C/W EXTRUDED ALUMINUM HOUSING, OPTICAL LENS, 5% ELV/TRIAC DIMMING DRIVER, WHITE FINISH, AND INTEGRAL ROCKER SWITCH. PROVIDE C/W ONE SPLICE BOX PER RUN (450W MAX) AND ALL CONNECTORS, MOUNTING ACCESSORIES, ETC. REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
L	COOPER CAT. #4SNX LW UNV CC83 CD1 C/W WG-SNX/SN-4FT-B LITHONIA CAT. #ZL1N L48 5000LM FST MVOLT 40K 80CRI C/W WGZ48 GENLYTE CFI CAT. #FSS440L840-UNV-CIM C/W FKR-126 & FSSWG4	120V	LED	4100	4000K	33W	80	SUSPENDED	N/A	4' (1220mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, CHAIN SUSPENSION KIT, 10% 0-10V DIMMING DRIVER, AND WIRE GUARD. NOTE: SUSPEND TO MAINTAIN MAXIMUM HEADROOM.
M	VISA CAT. #CP4351-L40K-L-L40K-H-MVOLT-WIDE-XXX LUMINIS CAT. #CL826 L4L50 40K 120V XX STM K35 FT8 VISO CAT. #PQ00619-01.PENDANT	120V	LED	5600	4000K	50W	80	SUSPENDED	N/A	12" (300mm) SUSPENDED CAN LIGHT. ARCHITECT TO CONFIRM FINISH.
N	LITHONIA CAT. #LDN8CYL 40/50 LOA8AR LS MVOLT EZ10 FCM XXXX JUNO CAT. #LC8S 50LM 40K MVOLT X G4 80CRI EZ10 X HM XX ELITE CAT. #SCH8-LED-5000L-MVOLT-WD-40K-90-XX-CM-HH8-8501-CL-WH	120V	LED	5000	4000K	61W	80	SUSPENDED	N/A	8" (200mm) CEILING MOUNTED CAN LIGHT C/W 0-10V DIMMING DRIVER, SEMI-SPECULAR CLEAR REFLECTOR.
S	SGI LIGHTING CAT. #FLEX-P-ULTRA-24VDC-WHT-3500K-85 DRIVER #POWER-21-24VDC-XXD WAC LIGHTING. #T24-CS4-20-2750WT DRIVER #PS-24DC-U96R-CS-SM PRISM LIGHTING CAT. #6030-FL-4.5W24V-3500K-IP67 DRIVER#5040-PSU-2x96W(192W)24V-JB-CL2	120V	LED	5000	4000K	4.4	80	SUSPENDED	N/A	FLAT TAPE LED COVE UPLIGHT FIXTURE (3/4" x 3/4"). NOTE: THIS CONTRACTOR SHALL BE RESPONSIBLE TO: 1)CUT LED TAPE LIGHTING TO SUITE SITE CONDITIONS. 2)PROVIDE DRIVERS TO SUIT LIGHTING CONTROL ZONES AND SIZE ACCORDINGLY. 3)PROVIDE ADDITIONAL DEVICES AS REQUIRED FOR LENGTH
EXIT LIGHTS	AIMLITE CAT. #RPALWUMWHTUNVDC STANPRO CAT. #RMXL0WH-UDC LUMACELL CAT. #LA3WU	12V/120V	LED	N/A	N/A	2.5 WATT (MAX.)AC 2 WATT (MAX.)DC	N/A	SURFACE	N/A	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, AND MAXIMUM 2.5" (63mm) THICKNESS. FACES AND CHEVRONS TO SUIT DRAWINGS.
EMERG. BATT.	AMILITE #EBST12 SERIES: EM-3 #EBST12036-2SM4WLRWHT-ATD EM-4 #EBST12100-2SM4WLRWHT-ATD EM-5 #EBST12200-2SM4WLRWHT-ATD EM-6 #EBST12360-2SM4WLRWHT-ATD STANPRO CAT. #SLX12 SERIES EM-3 #SLA12036-2N4LJ/AT EM-4 #SLB12100-2N4LJ/AT EM-5 #SLC12200-2N4LJ/AT EM-6 #SLC12360-2N4LJ/AT LUMACELL CAT. #RGS SERIES EM-3 #RG12S361LD7ATN EM-4 #RG12S1002LD7ATN EM-5 #RG12S2002LD7ATN EM-6 #RG12S3602LD7ATN	12V/120V	LED	N/A	N/A	2-4W MR16	N/A	SURFACE	N/A	LONG LIFE, SEALED RECHARGABLE BATTERY PROVIDING MINIMUM EMERGENCY WATAGE AS NOTED BY THE CATALOGUE NUMBER C/W MICRO SIZE 12V 4W (MINIMUM) LED HEADS AND AUTOTEST FEATURE.
COMBO UNIT	AIMLITE CAT. #CARPW SERIES EM-1 #CARPW12036X2SM4WLJATD EM-2 #CARPW12072X2SM4WLJATD STANPRO CAT. #PRMXL SERIES EM-1 #PRMXL10361-2N4LJ-AT EM-2 #PRMXL10721-2N4LJ-AT LUMACELL CAT. #LAC SERIES EM-1 #LACXW12502LD7ATN EM-2 #LACXW12722LD7ATN	12V/120V	LED	N/A	N/A	2-4W PAR18	N/A	SURFACE	N/A	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, MAXIMUM 2.5" (63mm) THICKNESS, 12V INTERNAL SEALED RECHARGABLE BATTERY PROVIDING MINIMUM EMERGENCY WATTAGE AS NOTED BY THE CATALOGUE NUMBER AND AUTOTEST FEATURE. INTEGRAL 12V LED HEADS TO HAVE COMPACT DESIGN WITH WHITE COLOUR, FULL AIMING ADJUSTMENT, AND 360° ROTATION. WHERE NOTED UNIT SHALL BE C/W WIREGUARD. FACES AND CHEVRONS TO SUIT DRAWINGS.
EMERG. LIGHTS	AIMLITE CAT. #RMSM212V4WLJWHT STANPRO CAT. #N2-06-12V4WLJWH LUMACELL CAT. #MQM2LD7	12V	LED	N/A	N/A	2-4W PAR18	N/A	SURFACE	N/A	TWIN HEAD LED REMOTE MR16 FIXTURE C/W COMPACT DESIGN, THERMOPLASTIC CONSTRUCTION, WHITE COLOUR, FULL AIMING ADJUSTMENT, AND 360° ROTATION.
EMERG. LIGHTS (VANDAL RESIST.)	AIMLITE CAT. #RMQV212V4WLRWHT STANPRO CAT. #SMC2-06-24V4WLRWH LUMACELL CAT. #RSQB2LD7	12V	LED	N/A	N/A	2-4W MR16	N/A	SURFACE	N/A	TWIN HEAD (1 CUBE 2 LAMPS) LED REMOTE MR16 FIXTURE C/W COMPACT VANDAL RESISTANT DESIGN, WHITE COLOUR, FULL AIMING ADJUSTMENT, 360° ROTATION, AND LEXAN COVER.

Notes:

1. LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
2. TENDER PRICE TO INCLUDE ONLY APPROVED MANUFACTURERS LISTED ON SCHEDULE. EQUAL MANUFACTURERS ARE NOT BEING CONSIDERED FOR THIS TENDER UNLESS SPECIFICALLY IDENTIFIED ON SCHEDULE FOR NOTED FIXTURE TYPES. FOR NOTED APPROVED EQUALS TO BE CONSIDERED APPROVED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED EQUAL BY EMAIL WITH CONSULTANTS OFFICE PRIOR TO PROJECT ADDENDUM PERIOD CLOSE.
3. WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURER'S AVAILABLE STANDARD FINISHES.

LIGHT FIXTURE SCHEDULE (EXTERIOR)

Item	Manufacturer/Catalog Number	Voltage	Lamp: Type	Lamp: Lumens	Lamp: Colour Temperature	Lamp: Wattage	Lamp: CRI	Mounting	Required Listings	Description
C1	COOPER CAT. #LD6C10D010TR-EU6C10208030- 6LBMN1H-LGSKT6IP66 ACUITY CAT#LBR6 ALO1 + WL - WET LOCATION LISTED FOR UNDER CANOPY LITELINE CAT. #GEN06-IA-30-W-HC-B-N-X-N-1	120V	LED	1000	3000K	11W	80	RECESSED	IP66	RECESSED 6" (150mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 50 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, IP66 GASKET KIT, AND 5% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.
W1	COOPER CAT. #IST-SA1B-730-9-SL2-XX ACUITY CAT# WDGE2 LED 30K 70CRI T2M MVOLT GENLYTE GARDCO CAT. #GWM-A07-830-T2M-UNV-XX	120V	LED	3434	3000K	25.4W	80	WALL	IP66, IDA	COMPLETE CUT OFF TRAPEZOIDAL LED WALLPACK FIXTURE C/W TYPE '2' WITH SPILL CONTROL DISTRIBUTION, FULL CUT-OFF DARK SKY COMPLIANCE (IDA), AND FINISH TO SUIT ARCHITECT. MOUNT FIXTURE AT HEIGHT AS INDICATED ON ARCHITECTURAL ELEVATIONS.
W2	COOPER CAT. #IST-SA1D-730-9-T4W-XX ACUITY CAT# WDGE3 LED 30K 70CRI R4 MVOLT XX GENLYTE GARDCO CAT. #GWM-A09-830-T4M-UNV-XX	120V	LED	5665	3000K	45.2W	80	WALL	IP66, IDA	COMPLETE CUT OFF TRAPEZOIDAL LED WALLPACK FIXTURE C/W TYPE '4' WIDE DISTRIBUTION, FULL CUT-OFF DARK SKY COMPLIANCE (IDA), AND FINISH TO SUIT ARCHITECT. MOUNT FIXTURE AT HEIGHT AS INDICATED ON ARCHITECTURAL ELEVATIONS.
P1	McGRAW-EDISON CAT. #GALN-SA2B-730-U-T4FT-FADC-XX POLE: VALMONT CAT. #DS330-400Q160-D1-FPGV-XX- FBC-AB OR EQUAL ACUITY CAT# DSX1 LED P3 30K 70CRI TFTM MVOLT XPA FAO XX GENLYTE GARDCO CAT. #OPF-S-A04-730-TFTM-AR1-UNV-FAWS-XX	120V	LED	2-13496	3000K	2-102W	80	POLE	IDA	TWIN HEAD POLE MOUNTED DECORATIVE LED FIXTURE C/W EXTRUDED ALUMINUM ENCLOSURE, LOW PROFILE DESIGN, TYPE '4 FORWARD THROW' DISTRIBUTION OPTICS, FULL CUT-OFF DARK SKY COMPLIANCE (IDA), 600mA DRIVER, AND 17' (5.2m) X 4" (100mm) SQUARE STRAIGHT STEEL POLE. ENTIRE ASSEMBLY SHALL HAVE FINISH TO SUIT ARCHITECT. NOTES: POLES MUST BE PROVIDED WITH ROUND BOLT/BASE COVERS.
P2	McGRAW-EDISON CAT. #GALN-SA2B-730-U-T4FT-FADC-XX POLE: VALMONT CAT. #DS330-400Q160-D1-FPGV-XX- FBC-AB OR EQUAL ACUITY CAT# DSX1 LED P3 30K 70CRI TFTM MVOLT XPA FAO XX GENLYTE GARDCO CAT. #OPF-S-A04-730-TFTM-AR1-UNV-FAWS-XX	120V	LED	13496	3000K	102W	80	POLE	IDA	POLE MOUNTED DECORATIVE LED FIXTURE C/W EXTRUDED ALUMINUM ENCLOSURE, LOW PROFILE DESIGN, TYPE '4 FORWARD THROW' DISTRIBUTION OPTICS, FULL CUT-OFF DARK SKY COMPLIANCE (IDA), AND 17' (5.2m) X 4" (100mm) SQUARE STRAIGHT STEEL POLE. ENTIRE ASSEMBLY SHALL HAVE FINISH TO SUIT ARCHITECT. NOTES: POLES MUST BE PROVIDED WITH ROUND BOLT/BASE COVERS.

Notes:

1. LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
2. TENDER PRICE TO INCLUDE ONLY APPROVED MANUFACTURERS LISTED ON SCHEDULE. EQUAL MANUFACTURERS ARE NOT BEING CONSIDERED FOR THIS TENDER UNLESS SPECIFICALLY IDENTIFIED ON SCHEDULE FOR NOTED FIXTURE TYPES. FOR NOTED APPROVED EQUALS TO BE CONSIDERED APPROVED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED EQUAL BY EMAIL WITH CONSULTANTS OFFICE PRIOR TO PROJECT ADDENDUM PERIOD CLOSE. THEY MUST THEN PROVIDE PHOTOMETRIC ANALYSIS FOR THE EXTERIOR FIXTURE LAYOUT INDICATED USING THEIR PROPOSED FIXTURE.
3. WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURER'S AVAILABLE STANDARD FINISHES.
4. IT IS THE RESPONSIBILITY OF THIS ELECTRICAL CONTRACTOR TO IDENTIFY TO THE ELECTRICAL CONSULTANT'S ATTENTION ANY DISCREPANCIES BETWEEN THE FIXTURE CATALOG NUMBER AND FIXTURE DESCRIPTION, AND OR VOLTAGE, OUTPUT, OR MOUNTING, PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT THE TIME OF SHOP DRAWING REVIEW. FOR THE PURPOSES OF BIDDING, INCLUDE FOR A FIXTURE MATCHING THE VOLTAGE, MOUNTING, LOCATION AND NOTATIONS SHOWN ON LIGHTING DESIGN DRAWINGS.
5. EXTERIOR FIXTURES WHERE NOTED ARE TO BE C/W FIELD ADJUSTABLE LUMENS/WATTAGE FEATURE. FIXTURES TO BE SET TO FULL OUTPUT AT TIME OF STARTUP AND COMMISSIONING.

ELECTRICAL SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED

COMMUNICATIONS

Symbol	Description
	SINGLE WALL MOUNTED TELEPHONE OUTLET C/W 1/2" (13mm) C TO CABLE MANAGEMENT SYSTEM.
	SINGLE COMPUTER OUTLET C/W 3/4" (21mm) C TO CABLE MANAGEMENT SYSTEM.
	COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO CABLE MANAGEMENT SYSTEM.
WAP	WIRELESS ACCESS POINT. PROVIDE 3/4" (21mm) C TO CABLE MANAGEMENT SYSTEM
	CLOCK AS PER SPECIFICATIONS
TV	TELEVISION OUTLET C/W 1"C (27mm) TO CABLE MANAGEMENT SYSTEM.
	HANGER SYSTEM (REFER TO DETAILS)
	ADMINISTRATIVE CONTROL CONSOLE
	HANDSET (ND = NON-DIAL STYLE)
CS	P.A. CALL SWITCH
	WALL MOUNTED SPEAKER (CS=COLUMN SPEAKER)
	WALL MOUNTED SPEAKER C/W CALL-IN SWITCH
	CEILING MOUNTED SPEAKER
	PROGRAM BELL
	HORN SPEAKER
M	MICROPHONE OUTLET
	DOOR BELL
A	AUXILIARY ROUGH-IN FOR USE AS NOTED
M	MICROPHONE OUTLET

ELECTRIC HEAT

Symbol	Description
X	BASEBOARD ELECTRIC HEATER (TYPE AS INDICATED)
X	FAN FORCED ELECTRIC HEATER (TYPE AS INDICATED)
X	UNIT HEATER (TYPE AS INDICATED)

STANDARD CIRCUIT LABELING

A - 1 - 1: POWER PANEL LABEL / CIRCUIT INDICATION / SWITCH LEG (IF APPLICABLE)

A - 1 - C1: POWER PANEL LABEL / CIRCUIT INDICATION / CONTACTOR LABLE

ACCESS CONTROL

Symbol	Description
ML	MAG LOCK
ES	ELECTRIC STRIKE. CONFIRM ROUGHIN WITH DOOR HARDWARE.
PTL	"PUSH-TO-LOCK" BUTTON
EM	EMERGENCY PUSH BUTTON STATION
DL	"ASSISTANCE REQUIRED" DOME LIGHT WITH SOUNDER
A	"ASSISTANCE REQUIRED" INDICATOR LIGHT WITH SOUNDER
CR	CARD/FOB READER ROUGH-IN AS A SINGLE GANG BOX AT 1100mm AFF C/W 13mmC TO ELECTRIC STRIKE IN ADJACENT DOOR FRAME. CONFIRM ROUGH-IN WITH DOOR HARDWARE.

GENERAL

Symbol	Description
ER	INDICATED EXISTING ITEM TO REMAIN
D	INDICATES EXISTING ITEM TO BE DELETED
R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION
WG	WIREGUARD
GF	GROUND FAULT
WP	WEATHERPROOF
IG	ISOLATED GROUND
SR	SURGE PROTECTED
TR	TAMPER RESISTANT
CLG	CEILING MOUNTED
X	NOTE INDICATOR
X	MECHANICAL ITEM NO.
A	OWNERS EQUIPMENT ITEM NO.

SAFE WELCOME DEVICES

Symbol	Description
M	MONITOR
PS	POWER SUPPLY
CSS	CALL SWITCH STATION

LIGHTING

Symbol	Description
X	LIGHT FIXTURE TYPE AS INDICATED
X	LIGHT FIXTURE (HATCHING DENOTES TIME OF DAY CONTROL)
EM-X DC-X X-X	COMBINATION EMERGENCY/EXIT TYPE AS INDICATED (EM-X INDICATES BATTERY UNIT TYPE, DC-X INDICATES DC CIRCUIT, AND X-X INDICATES AC SOURCE CIRCUIT)
	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED
	POLE MOUNTED LIGHT FIXTURE
	WALL MOUNTED EXIT LIGHT SHADING INDICATES FACE
	CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION SHADING INDICATES FACE
	SINGLE OR TWIN EMERGENCY LIGHTING FIXTURE
	RECESSED REMOTE EMERGENCY FIXTURES
BU EM-X DC-X X-X	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE (EM-X INDICATES BATTERY UNIT TYPE, DC-X INDICATES DC CIRCUIT, AND X-X INDICATES AC SOURCE CIRCUIT)
	SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED)
OS	OCCUPANCY SENSOR (PASSIVE)
OSD/OSR	OCCUPANCY SENSOR: OSD=DUAL TECHNOLOGY OSR=DUAL CIRCUIT/DUAL TECHNOLOGY
OS	CEILING MOUNTED MOTION SENSOR
WOS	WALL MOUNTED MOTION SENSOR
DR	DIGITAL RELAY
PC	PHOTOCELL
DM	DIGITAL WALL DIMMER STATION
NB	LIGHTING NETWORK BRIDGE
EM	EMERGENCY LIGHTING RELAY
IO	LIGHTING INPUT/OUTPUT RELAY
PK	ANALOG POWER PACK
TC	TOUCH SCREEN CONTROLLER

FIRE ALARM

Symbol	Description
	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)
	HEAT DETECTOR (135 DEGREE FIXED TEMPERATURE)
	HEAT DETECTOR (194 DEGREE FIXED TEMPERATURE)
	HEAT DETECTOR (195 DEGREE RATE OF RISE AND FIXED TEMPERATURE)
S	DUCT TYPE SMOKE DETECTOR
S	SMOKE DETECTOR (RL=RELAY BASE)
SA CO	SMOKE ALARM C/W BATTERY BACK UP AND INTEGRAL STROBE LIGHT (CO INDICATES 3 IN 1 CARBON MONOXIDE/STROBE/SMOKE ALARM)
CO	CARBON MONOXIDE DETECTOR C/W BATTERY BACK UP
	PULLSTATION
AV	ALARM VALVE
PS	PRESSURE SWITCH
SV	SUPERVISED VALVE
FS	FLOW SWITCH
	ALARM HORN
	ALARM STROBE
	COMBINATION HORN/STROBE
EOL	END-OF-LINE RESISTOR
DH	DOOR HOLD OPEN DEVICE
FSD	FIRE SMOKE DAMPER

POWER

Symbol	Description
	WALL MOUNTED RECEPTACLE (15A-120V)
	WALL MOUNTED T-SLOT RECEPTACLE (20A-120V)
	T-SLOT RECEPTACLE MTD. ABOVE COUNTER (20A-120V)
S	RECEPTACLE MTD. ABOVE COUNTER S=SPLIT (15A-120V)
ST	STOVE RECEPTACLE
DR	DRYER RECEPTACLE
	SPECIAL RECEPTACLE
	QUAD RECEPTACLE
	WALL MOUNTED DUPLEX RECEPTACLE C/W TOP HALF SWITCHED (15A-120 VOLT)
	DIRECT CONNECTION
FB	FLOOR BOX C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)
JB	JUNCTION BOX
PB	PULLBOX
	PANEL AS INDICATED
	FUSED DISCONNECT
	UNFUSED DISCONNECT
VFD	VARIABLE FREQUENCY DRIVE
SPD	SURGE PROTECTION DEVICE. REFER TO SPECIFICATIONS.
DVR	DUAL VOLTAGE RELAY
T C	TIME CLOCK
T	0-15 MINUTE INTERVAL TIMER
S	SPEED CONTROLLER
	MANUAL STARTER
	MAGNETIC STARTER
	COMBINATION MAGNETIC STARTER
	DESTRATIFICATION FAN
	SURFACE RACEWAY C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)
HD	HAND DRYER
	PUSH-BUTTON STATION (QUANTITY OF BUTTONS AS PER PLANS)
C	CONTACTOR
	MOTOR CONNECTION
PP	POWER POLE
T RA	THERMOSTAT (RA=REVERSE ACTING) HONEYWELL CAT. #T6051 SERIES
	SOLENOID VALVE
CS	CURRENT SENSOR
	TRANSFORMER

SECURITY

Symbol	Description
	SECURITY DETECTOR (SURFACE MOUNTED)
S	SECURITY SIREN (INSTALL 2400mm AFF) C/W 19mmC TO NEAREST SECURITY JUNCTION BOX
KP	SECURITY KEYPAD (INSTALL 1100mm AFF) C/W 19mmC TO NEAREST SECURITY JUNCTION BOX
DC	DOOR CONTACT C/W 19mmC TO NEAREST SECURITY JUNCTION BOX (REFER TO DETAIL)
TSEN	LOW TEMPERATURE SENSOR. ROUGHIN AS A SINGLE GANG BOX MOUNTED HORIZONTALLY AT 150mm BELOW FINISHED CEILING LEVEL.
SJB	SECURITY JUNCTION BOX 150mm (6") SQUARE C/W COVER
C	CEILING MOUNTED CAMERA
CPS	CAMERA POWER SUPPLY
MSCP	MAIN SECURITY CONTROL PANEL
ZEP	ZONE EXPANSION PANEL. REFER TO INSTALLATION DETAIL.
HO	HOLD-UP/PANIC PUSHBUTTON C/W 13mmC TO NEAREST SECURITY JUNCTION BOX.
GB	GLASS BREAK SENSOR ROUGH-IN

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale this drawing.

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Project Number:25397

Professional Engineers Ontario
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction.
Association of Professional Engineers of Ontario
2026-11-04

NO.	DESCRIPTION	DATE
2	ISSUED FOR TENDER	26.11.04
1	ISSUED FOR PERMIT	26.03.06

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

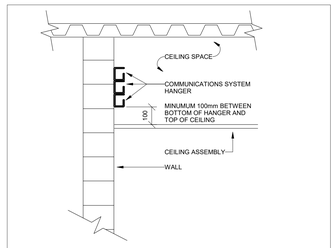
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

LEGEND & SCHEDULES

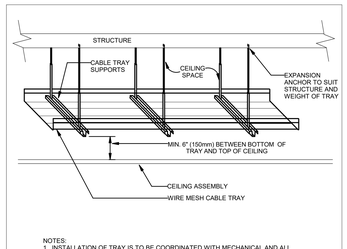
HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8284 Fax (905) 607-8290

SCALE 1 : 10	PROJECT 16220
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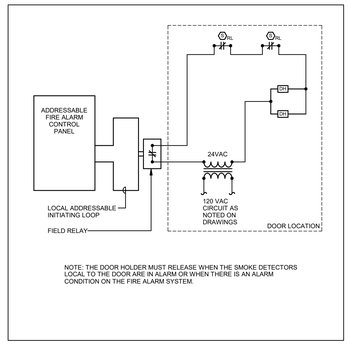
1. INSTALLATION OF HANGERS IS TO BE COORDINATED WITH OTHER ASSOCIATED TRADES.
2. HANGERS ARE TO BE INSTALLED IN LINE ALONG LENGTH OF CORRIDOR AT MAXIMUM 4'-0" (1200mm) INTERVALS.
3. REFER TO SPECIFICATION FOR ALTERNATE TO USE WIRE MESH CABLE TRAY.

A - CABLE HANGER WALL
SCALE: NTS



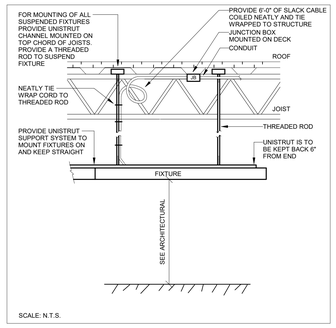
NOTES:
1. INSTALLATION OF TRAY IS TO BE COORDINATED WITH MECHANICAL AND ALL OTHER TRADES.
2. REFER TO SPECIFICATION FOR DIMENSIONAL INFORMATION.

B - CABLE TRAY SUSPENSION DETAIL
SCALE: NTS



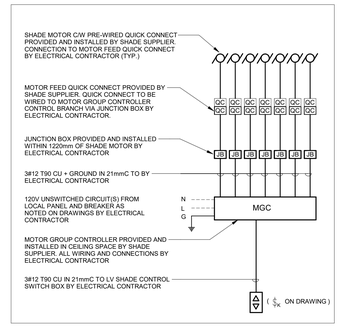
NOTE: THE DOOR HOLDER MUST RELEASE WHEN THE SMOKE DETECTORS LOCAL TO THE DOOR ARE IN ALARM OR WHEN THERE IS AN ALARM CONDITION ON THE FIRE ALARM SYSTEM.

C - DOOR HOLDER WIRING SCHEMATIC
SCALE: NTS

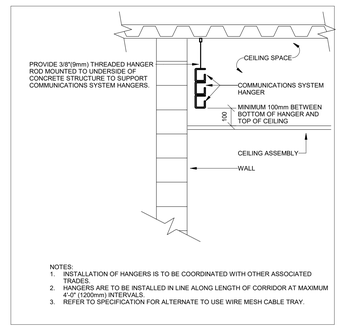


SCALE: N.T.S.

D - SUSPENDED LIGHT MOUNTING DETAIL
SCALE: NTS

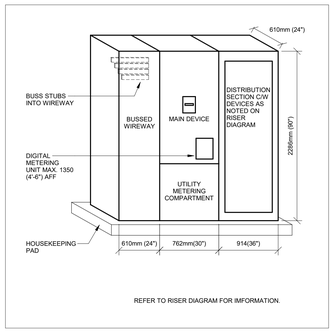


F - SHADE MOTOR CONTROLLER WIRING DETAIL
SCALE: NTS



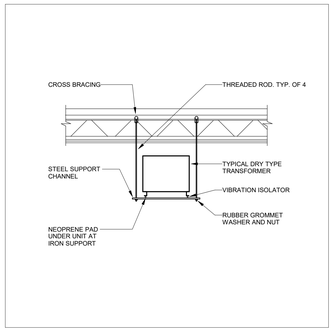
NOTES:
1. INSTALLATION OF HANGERS IS TO BE COORDINATED WITH OTHER ASSOCIATED TRADES.
2. HANGERS ARE TO BE INSTALLED IN LINE ALONG LENGTH OF CORRIDOR AT MAXIMUM 4'-0" (1200mm) INTERVALS.
3. REFER TO SPECIFICATION FOR ALTERNATE TO USE WIRE MESH CABLE TRAY.

G - CABLE HANGER CEILING DETAIL
SCALE: NTS

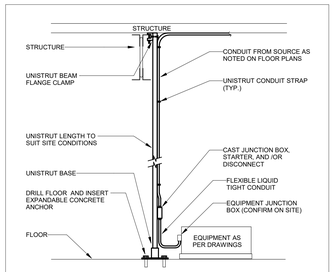


REFER TO RISER DIAGRAM FOR IMFORMATION.

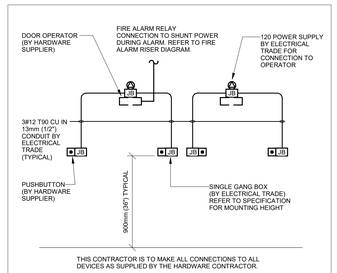
H - MAIN SWITCHBOARD ELEVATION
SCALE: NTS



J - TRANSFORMER MOUNTING DETAIL (STRUCTURE)
SCALE: NTS

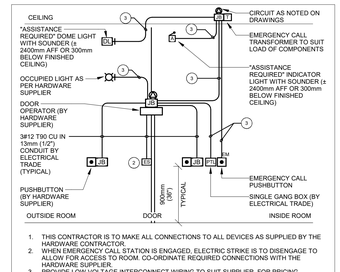


K - UNISTRUT UPSTAND DETAIL
SCALE: NTS



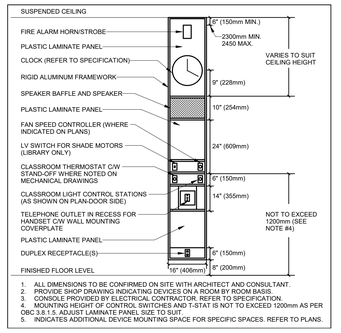
THIS CONTRACTOR IS TO MAKE ALL CONNECTIONS TO ALL DEVICES AS SUPPLIED BY THE HARDWARE CONTRACTOR.

L - DOOR OPERATOR DETAIL
SCALE: NTS



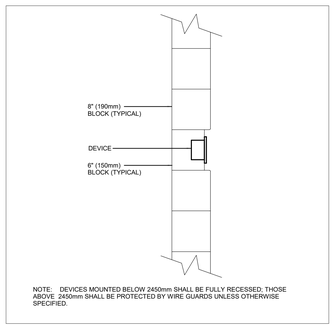
1. THIS CONTRACTOR IS TO MAKE ALL CONNECTIONS TO ALL DEVICES AS SUPPLIED BY THE HARDWARE CONTRACTOR.
2. WHEN EMERGENCY CALL STATION IS ENGAGED, ELECTRIC STRIKE IS TO DISENGAGE TO ALLOW FOR ACCESS TO ROOM. CO-ORDINATE REQUIRED CONNECTIONS WITH THE HARDWARE SUPPLIER.
3. PROVIDE LOW VOLTAGE INTERCONNECT WIRING TO SUIT SUPPLIER. FOR PRICING PURPOSES ALLOW 4c#18 IN 13mmC.

M - EMERGENCY CALL / DOOR OPERATOR DETAIL
SCALE: NTS



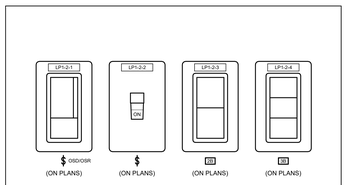
1. ALL DIMENSIONS TO BE CONFIRMED ON SITE WITH ARCHITECT AND CONSULTANT.
2. PROVIDE SHOP DRAWING INDICATING DEVICES ON A ROOM BY ROOM BASIS.
3. CONSOLE PROVIDED BY ELECTRICAL CONTRACTOR. REFER TO SPECIFICATION.
4. MOUNTING HEIGHT OF CONTROL SWITCHES AND T-STAT IS NOT TO EXCEED 1200mm AS PER OBC 3.8.1.5. ADJUST LAMINATE PANEL SIZE TO SUIT.
5. INDICATES ADDITIONAL DEVICE MOUNTING SPACE FOR SPECIFIC SPACES. REFER TO PLANS.

N - CONSOLE DETAIL
SCALE: NTS



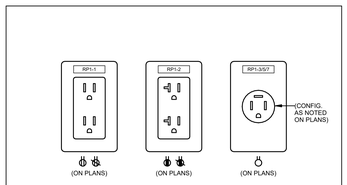
NOTE: DEVICES MOUNTED BELOW 2450mm SHALL BE FULLY RECESSED: THOSE ABOVE 2450mm SHALL BE PROTECTED BY WIRE GUARDS UNLESS OTHERWISE SPECIFIED.

P - GYM DEVICE MOUNTING DETAIL
SCALE: NTS



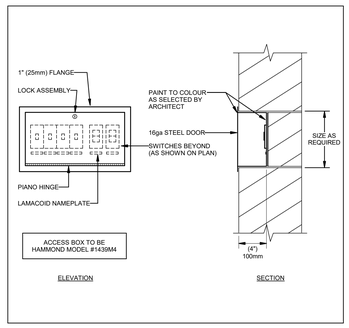
NOTES:
1. LIGHT SWITCHES ARE TO BE C/W P-TOUCH LABEL.
2. LABEL IS TO BE WHITE WITH TYPE-WRITTEN BLACK LETTERING AND PLACED CENTERLINE OF SWITCH AS SHOWN.
3. CIRCUIT DESCRIPTOR IS TO BE C/W POWER PANEL, CIRCUIT INDICATION, AND SWITCH LEG.

Q - LIGHT SWITCH LABELLING DETAIL
SCALE: NTS

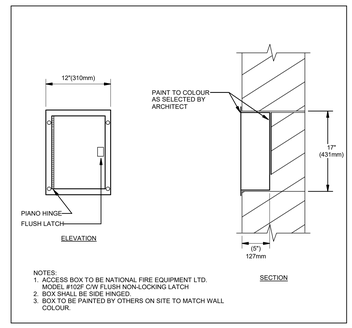


NOTES:
1. RECEPTACLES ARE TO BE C/W P-TOUCH LABEL.
2. LABEL IS TO BE WHITE WITH TYPE-WRITTEN BLACK LETTERING AND PLACED CENTERLINE OF RECEPTACLE AS SHOWN.
3. CIRCUIT DESCRIPTOR IS TO BE C/W POWER PANEL AND CIRCUIT INDICATION.

R - RECEPTACLE LABELLING DETAIL
SCALE: NTS

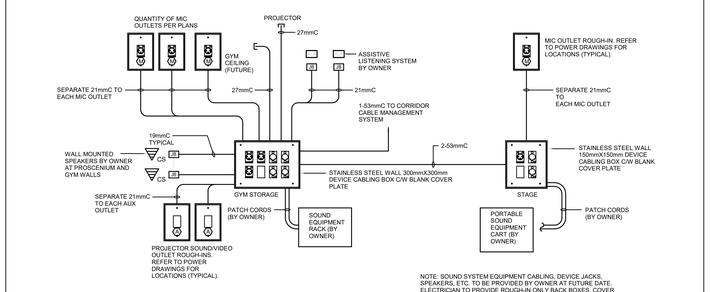


S - CONCEALED SWITCH HOUSING DETAIL
SCALE: NTS



NOTES:
1. ACCESS BOX TO BE NATIONAL FIRE EQUIPMENT LTD. MODEL #102F C/W FLUSH NON-LOCKING LATCH
2. BOX SHALL BE SIDE HINGED.
3. BOX TO BE PAINTED BY OTHERS ON SITE TO MATCH WALL COLOUR.

T - GYM HANDSET ENCLOSURE DETAIL
SCALE: NTS



NOTE: SOUND SYSTEM EQUIPMENT CABLING, DEVICE JACKS, SPEAKERS, ETC. TO BE PROVIDED BY OWNER AT FUTURE DATE. ELECTRICIAN TO PROVIDE ROUGH-IN ONLY BACK BOXES, COVER PLATES AND CONDUITS AS INDICATED.

V - GYM/STAGE SOUND SYSTEM RISER DIAGRAM
SCALE: NTS

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale this drawing.
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(c) Northland Road, Waterloo, ON, N2V 2Y8
Phone: 519-710 1025
Website: deiconsultants.ca
Project Number:
DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

Professional Engineer Province of Ontario
Limited Engineering Licensee
Name: D.G. McCONKEY
Date: 2026-Feb-04
Limitations: Stated only: reporting and specification for electrical systems as noted on drawings. Not applicable to confirming to those systems in new and renovation construction.
Association of Professional Engineers of Ontario

NO.	DESCRIPTION	DATE
2	ISSUED FOR TENDER	26.11.04
1	ISSUED FOR PERMIT	26.03.06

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE COMMENCING THE WORK. THE USE OF THIS DRAWING ON PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

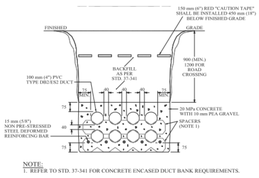
DETAILS PAGE 1 OF 2

HOSSACK & ASSOCIATES ARCHITECTS
6-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-6264 Fax (905) 607-6266

SCALE As indicated	PROJECT 16220
DATE 2026.04.17	
DRAWN D.V.	DRAWING E03
CHECKED R.L.	
PRINT DATE	2026-11-04 10:23:55 AM
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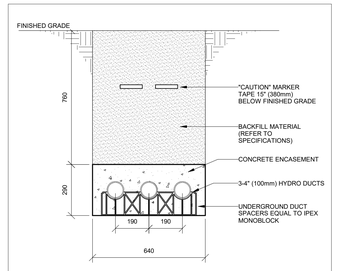
METRIC
DIMENSIONS ARE SHOWN IN MILLIMETRES

37-344
R4 (JUNE 2013)



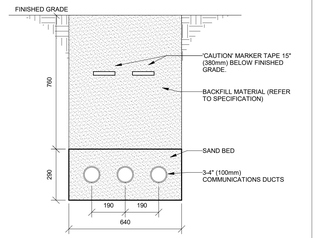
NOTE:
1. REFER TO STD. 37-341 FOR CONCRETE ENCASED DUCT BANK REQUIREMENTS.

A - PRIMARY DUCTBANK DETAIL
SCALE: NTS



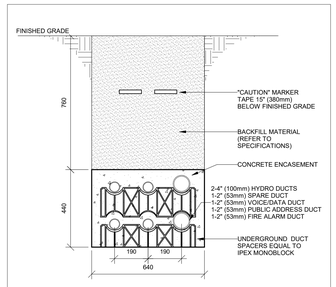
1. ENCASE DUCT IN 20 MPa CONCRETE ON 1/2" (13mm) PEA GRAVEL.
2. SLOPE DUCT BANK A MIN. OF 3" (75mm) PER 100' (30.5m) (AWAY FROM BUILDING).
3. CONCRETE ENCASED DUCTS SHALL BE CSA APPROVED PVC TYPE II.
4. DUCTS NOT ENCASED IN CONCRETE SHALL BE CSA APPROVED RIGID PVC TYPE.
5. PROVIDE 1-3/16" (4.75mm) MIN. POLYPROPYLENE FISH ROPE IN EACH CONCRETE ENCASE OR DIRECT BURIED DUCT. DUCT ENDS MUST BE SEALED WITH AN APPROVED DUCT PLUG.

B - 3-4" SECONDARY DUCTBANK
SCALE: NTS



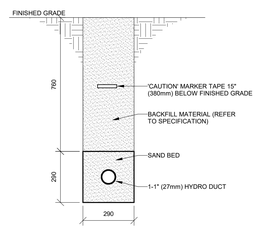
1. SLOPE DUCT BANK A MIN. OF 3" (75mm) PER 100' (30.5M) (AWAY FROM BUILDING).
2. DUCTS NOT ENCASED IN CONCRETE SHALL BE CSA APPROVED RIGID PVC TYPE.
3. PROVIDE 1-3/16" (4.75) MIN. POLYPROPYLENE FISH ROPE IN EACH CONCRETE ENCASED OR DIRECT BURIED DUCT. DUCT ENDS MUST BE SEALED WITH AN APPROVED DUCT PLUG.

C - 3-4" COMMUNICATIONS DUCTBANK
SCALE: NTS



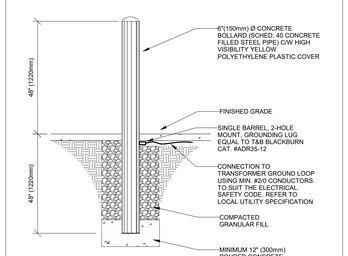
1. ENCASE DUCT IN 20 MPa CONCRETE ON 1/2" (13mm) PEA GRAVEL.
2. SLOPE DUCT BANK A MIN. OF 3" (75mm) PER 100' (30.5M) (AWAY FROM BUILDING).
3. CONCRETE ENCASED DUCTS SHALL BE CSA APPROVED PVC TYPE II.
4. DUCTS NOT ENCASED IN CONCRETE SHALL BE CSA APPROVED RIGID PVC TYPE.
5. PROVIDE 1-3/16" (4.75mm) MIN. POLYPROPYLENE FISH ROPE IN EACH CONCRETE ENCASE OR DIRECT BURIED DUCT. DUCT ENDS MUST BE SEALED WITH AN APPROVED DUCT PLUG.

D - PORTABLE DUCTBANK DETAIL
SCALE: NTS

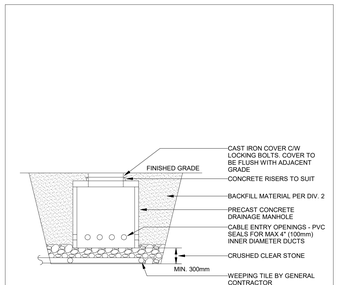


1. SLOPE DUCT BANK A MIN. OF 3" (75mm) PER 100' (30.5M) (AWAY FROM BUILDING).
2. DUCTS NOT ENCASED IN CONCRETE SHALL BE CSA APPROVED RIGID PVC TYPE.
3. PROVIDE 1-3/16" (4.75) MIN. POLYPROPYLENE FISH ROPE IN EACH CONCRETE ENCASED OR DIRECT BURIED DUCT. DUCT ENDS MUST BE SEALED WITH AN APPROVED DUCT PLUG.

F - SITE LIGHTING DUCTBANK DETAIL
SCALE: NTS

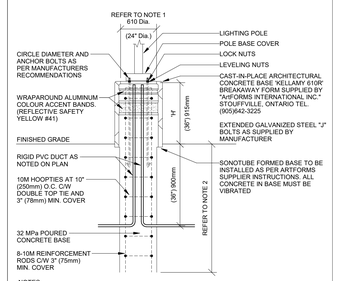


G - BOLLARD MOUNTING DETAIL
SCALE: NTS



NOTE: SUITABLE CONCRETE DRAINAGE MANHOLE EQUAL TO BROOKLIN CONCRETE BCP300P C/W CAST IRON COVER

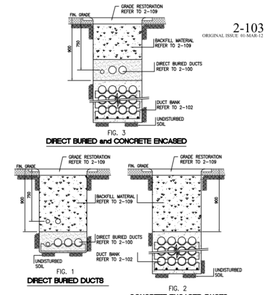
H - DRAINAGE MANHOLE/PULLBOX DETAIL
SCALE: NTS



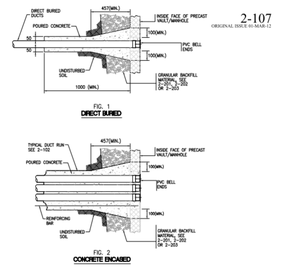
NOTES:
1. BASE DIAMETER MUST BE A MINIMUM OF 1.5 TIMES THE SIZE OF THE MANUFACTURER'S RECOMMENDED BOLT CIRCLE DIAMETER. BOLT COVER MUST NOT OVERHANG BASE. CONTRACTOR IS TO CONFIRM BASE DIAMETER ON FIXTURE SHOP DRAWINGS.
2. REFER TO CHART INDICATING BASE BURIAL DEPTH.

POLE LENGTH (M)	BASE BURIAL DEPTH (M)	REFIN. ROD LENGTH (M)
3.0	1.00	H+1.35
5.0	2.15	H+2.00
7.0	2.15	H+2.00
8.0	2.40	H+2.30
8.7	2.40	H+2.30
9.0	2.40	H+2.30
10.0	2.70	H+2.60
12.0	2.70	H+2.60
13.0	2.90	H+2.75
15.1	3.05	H+2.90

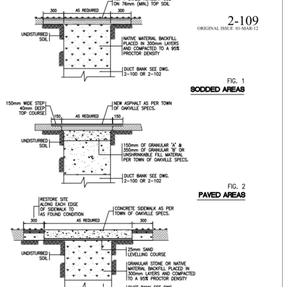
J - KELLAMY 610R POLE BASE
SCALE: NTS



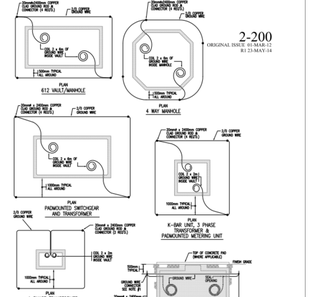
K - TYPICAL HYDRO DUCTBANK DETAIL
SCALE: NTS



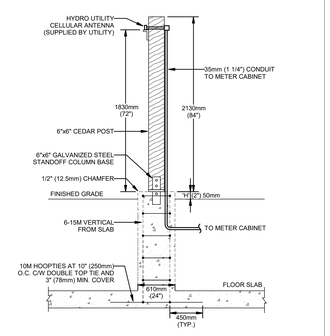
L - DUCT ENTRANCE DETAIL
SCALE: NTS



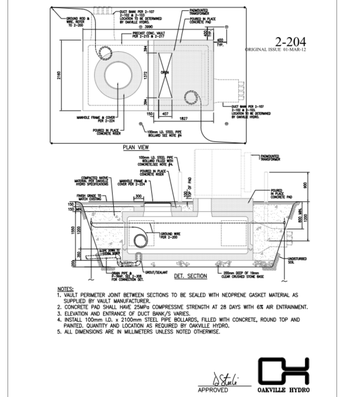
M - TYPICAL TRENCH RESTORATION DETAIL
SCALE: NTS



N - GROUNDING DETAIL
SCALE: NTS
APPROVED
OAKVILLE HYDRO



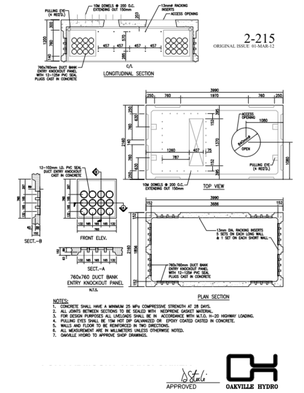
P - METERING ANTENNA
SCALE: NTS



NOTES:
1. VAULT PERIMETER JOINT BETWEEN SECTIONS TO BE SEALED WITH NEOPRENE GASKET MATERIAL AS SUPPLIED BY VAULT MANUFACTURER.
2. CONCRETE PAD SHALL HAVE 25MPa COMPRESSIVE STRENGTH AT 28 DAYS WITH 6% AIR ENTRAINMENT.
3. ELEVATION AND ENTRANCE OF DUCT BANK(?) VARIES.
4. INSTALL 100mm I.D. x 2100mm STEEL PIPE BOLLARDS, FILLED WITH CONCRETE, ROUND TOP AND PAINTED. QUANTITY AND LOCATION AS REQUIRED BY OAKVILLE HYDRO.
5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

APPROVED
OAKVILLE HYDRO

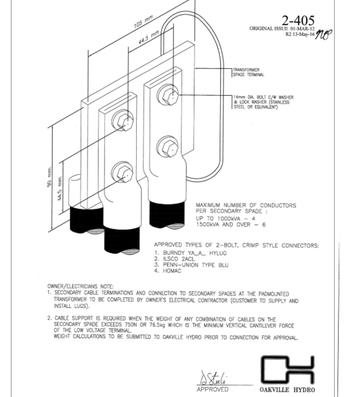
Q - PADMOUNT TRANSFORMER INSTALLATION DETAIL
SCALE: NTS



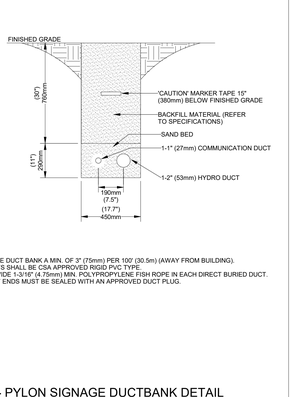
NOTES:
1. CONCRETE SHALL HAVE A MINIMUM 25 MPa COMPRESSIVE STRENGTH AT 28 DAYS.
2. ALL JOINTS BETWEEN SECTIONS TO BE SEALED WITH NEOPRENE GASKET MATERIAL.
3. ALL CONCRETE SHALL BE REINFORCED WITH 10M BARS @ 300 c/c EACH WAY TO BE DESIGNED FOR H-20 HIGHWAY LOADING.
4. PULLING EYES SHALL BE 19M HOT DIP GALVANIZED OR EPOXY COATED EMBEDDED IN CONCRETE.
5. WALLS AND FLOOR TO BE REINFORCED IN TWO DIRECTIONS.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
7. OAKVILLE HYDRO TO APPROVE SHOP DRAWINGS.

APPROVED
OAKVILLE HYDRO

R - PRECAST BASE DETAIL
SCALE: NTS



S - SECONDARY CONNECTIONS DETAIL
SCALE: NTS



NOTE:
1. SLOPE DUCT BANK A MIN. OF 3" (75mm) PER 100' (30.5m) (AWAY FROM BUILDING).
2. DUCTS SHALL BE CSA APPROVED RIGID PVC TYPE.
3. PROVIDE 1-3/16" (4.75mm) MIN. POLYPROPYLENE FISH ROPE IN EACH DIRECT BURIED DUCT. DUCT ENDS MUST BE SEALED WITH AN APPROVED DUCT PLUG.

T - PYLON SIGNAGE DUCTBANK DETAIL
SCALE: NTS

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
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Do not scale this drawing.
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DEI Consulting Engineers
(c) Northland Road, Waterloo, ON, N2V 2Y8
Phone: 519-710-1025
Website: www.deiengineers.ca
Project Number:
MECHANICAL | ELECTRICAL | AQUATIC

Professional Engineer Province of Ontario
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100176356
Limitations: Limited design, reports and specifications for the mechanical and electrical systems of this project conforming to these systems in new and renovation construction.
Association of Professional Engineers of Ontario

NO.	DESCRIPTION	DATE
2	ISSUED FOR TENDER	26.11.04
1	ISSUED FOR PERMIT	26.03.06

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES IN WRITING TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD CDSB

DETAILS PAGE 2 OF 2

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
TEL (905) 607-6394 FAX (905) 607-6090

SCALE	PROJECT
As indicated	16220
DATE	
2026.04.17	
DRAWN	DRAWING
D.V.	
CHECKED	E04
R.L.	
PRINT DATE	2026-11-04 10:23:56 AM
REVIT FILE	T:\2015\15121\02\Revit\R.RVT

GENERAL NOTES

-	PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL LIGHT SWITCH, LIGHTING CONTROL STATION AND RECEPTACLE DEVICE FACEPLATES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES. REFER TO SPECIFICATIONS AND DETAILS.
-	SEISMIC BRACING IS REQUIRED FOR THIS PROJECT REFER TO SPECIFICATIONS.

SPECIFIC NOTES

1	INDICATES DIGITAL RELAY PACK AND ASSOCIATED NETWORK BRIDGE INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED MOTION SENSOR(S). REFER TO LIGHTING CONROL DETAILS.
2	INDICATED LUMINAIRE AT ENTRY TO STUDENT WASHROOM TO BE CONNECTED AND CONTROLLED WITH CORRIDOR ZONE OCCUPANCY CONTROL.
3	INDICATED DEVICES TO BE MOUNTED IN ELEVATOR PIT. REFER TO ELEVATOR SHOP DRAWINGS.
4	INDICATED DEVICES TO BE MOUNTED TO COLUMN. ROUTE CABLING THROUGH COLUMN.
5	NOTED FIXTURE IS TO BE INSTALLED IN DISPLAY CASE MILLWORK. DISPLAY CASES TO SHARE DIGITAL RELAY AND NETWORK BRIDGE. COORDINATE EXACT REQUIREMENTS WITH MILLWORK TRADE PRIOR TO ROUGH-IN.
6	INDICATES FIXTURE TYPE 'S' IN CEILING COVE DESIGN. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
7	INDICATES ADDITIONAL LIGHTING CONTROL RELAY PACK CONNECTED TO LOCAL NETWORK BRIDGE INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR SEPARATE CONTROL OF STAIRWELL TIME OF DAY CONTROLLED FIXTURES (HATCHED). HATCHING INDICATES STAIRWELL FIXTURE ON TIME OF DAY CONTROLS ONLY AND NOT VIA LOCAL OCCUPANCY SENSORS. REFER TO LIGHTING CONTROLS DETAILS AND SEQUENCE OF OPERATION.
8	INDICATES DEVICES MOUNTING ON CURTAIN WALL. WIRES TO BE FISHED IN MULLIONS.
9	INDICATES DOME LIGHT TO ACT AS INDICATING LIGHT SIGNALING ASSOCIATED ROOM (SENSORY ROOM) IS CURRENTLY OCCUPIED FIXTURE IS TO BE CONNECTED TO SWITCH LEG ONLY OF ASSOCIATED LIGHTING RELAY (CONTROLLED WITH 0-10V DIMMER SWITCH).
10	INDICATES DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL.
11	INDICATES 0-10V DIMMER SWITCH FOR SENSORY ROOM LIGHTING MOUNTED OUTSIDE OF SPACE. WALL SWITCH TO PROVIDE ON/OFF CONTROL TO ASSOCIATED RELAY AND 0-10V DIMMING CONTROL OF FIXTURE(S) LOCATED WITHIN SENSORY ROOM. PROVIDE CLASS II 0-10V CONTROL WIRING FROM WALL DIMMER TO EACH ASSOCIATED FIXTURE DRIVER. COORDINATE INSTALLATION WITH MANUFACTURER'S RECOMMENDATION.
12	INDICATES MASTER LIGHTING CONTROL TOUCH SCREEN STATION. REFER TO DETAIL G/E07 FOR DETAILS.
13	HATCHING INDICATES STAIRWELL FIXTURE ON TIME OF DAY CONTROLS ONLY AND NOT VIA LOCAL OCCUPANCY SENSORS. REFER TO LIGHTING CONTROLS DETAILS AND SEQUENCE OF OPERATION.
14	INDICATES WALL MOUNTED OCCUPANCY/PHOTO SENSOR IN AREA OF OPEN CEILING. COORDINATE MOUNTING HEIGHT WITH STRUCTURE AND DUCTWORK. MOUNTED SENSOR WITH A HEIGHT OF 3658mm (12-0"). PROVIDE WALL MOUNTING BRACKET AS REQUIRED.
15	INDICATED DEVICE IS TO BE CEILING MOUNTED. PROVIDE ADEQUATE SUPPORT.
16	INDICATES POWER PACK AND 2 BUTTON SWITCH FOR GYM FANS. CONNECT TO NETWORK BRIDGE FOR GYMNASIUM LIGHTING.

GROUND FLOOR - LIGHTING PLAN
SCALE: 1 : 100

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Phone: 519-710-1025
Website: deiengineers.ca
Project Number:xxxx

Professional Engineers Ontario
Limited Engineering Licensee
Name: O.G. MCCONKEY
Date: 2026-11-04
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1	ISSUED FOR PERMIT	26.03.06

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CATHOLIC ELEMENTARY SCHOOL
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

GROUND FLOOR LIGHTING PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4 (110) DUNDAS DRIVE
MISSISSAUGA, ONTARIO L5A 3W8
Tel (905) 897-8284 Fax (905) 897-8290

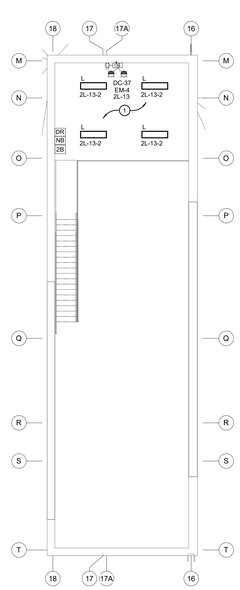
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GENERAL NOTES

-	PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL LIGHT SWITCH, LIGHTING CONTROL STATION AND RECEPTACLE DEVICE FACEPLATES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES. REFER TO SPECIFICATIONS AND DETAILS.
-	SEISMIC BRACING IS REQUIRED FOR THIS PROJECT REFER TO SPECIFICATIONS.

SPECIFIC NOTES

1	EXACT LOCATION OF FIXTURES IN THIS ROOM ARE TO BE CO-ORDINATED WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION. SUSPEND FIXTURE AT HEIGHT TO MAINTAIN MAXIMUM HEAD ROOM.
2	SECOND FLOOR STAIRWELL FIXTURES CONTROLLED BY DIGITAL RELAY PACK AND ASSOCIATED NETWORK BRIDGE ON GROUND FLOOR.
3	INDICATED DEVICES TO BE MOUNTED AT HIGH LEVEL IN ELEVATOR SHAFT. COORDINATE INSTALLATION WITH ELEVATOR SUPPLIER AND REFER TO ELEVATOR SHOP DRAWINGS.
4	INDICATES CONTRACTOR TO PROVIDE UNISTRUT SUPPORT TO FIXTURES SUCH THAT FIXTURES ARE MOUNTED WITH BOTTOM OF FIXTURE FLUSH WITH BOTTOM CHORD OF JOIST.
5	LEARNING COMMONS LIGHTING HORIZONTAL CONDUITS TO RUN IN CEILING DECK FLUTES BACK TO ADJACENT BULKHEAD. COORDINATE ROUTING ON SITE WITH ARCHITECT. SUSPEND LIGHTS LEVEL WITH FINISH FLOOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
6	INDICATES BOTTOM OF SUSPENDED FIXTURES TO BE MOUNTED AT 11'-0" AFF.
7	HATCHING INDICATES STAIRWELL FIXTURE ON TIME OF DAY CONTROLS ONLY AND NOT VIA LOCAL OCCUPANCY SENSORS. REFER TO LIGHTING CONTROLS DETAILS AND SEQUENCE OF OPERATION.
8	INDICATES SWITCH AND DIGITAL RELAY FOR CONTROL OF UNDERCABINET LIGHTS. RELAY TO BE INSTALLED WITHIN ACCESSIBLE CEILING SPACE.
9	INDICATES DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL.
10	INDICATED LUMINAIRE AT ENTRY TO STUDENT WASHROOM TO BE CONNECTED AND CONTROLLED WITH CORRIDOR ZONE OCCUPANCY CONTROL.



MECH. PENTHOUSE - LIGHTING PLAN
SCALE: 1 : 100

SECOND FLOOR - LIGHTING PLAN
SCALE: 1 : 100

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Professional Engineers Ontario
Limited Engineering Licensee
Name: O.G. MCCONKEY
Signature:
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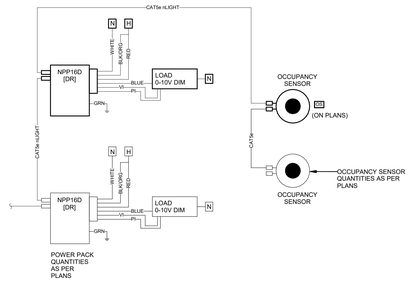
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NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

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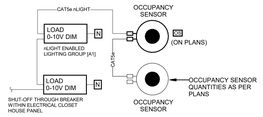
SECOND FLOOR LIGHTING PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2750 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-9394 Fax (905) 607-9395

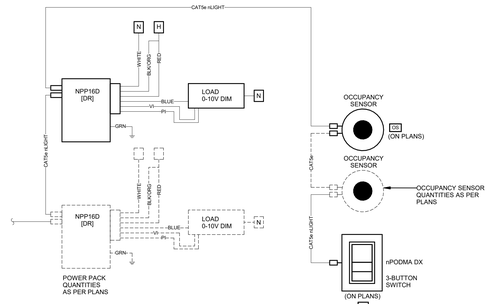
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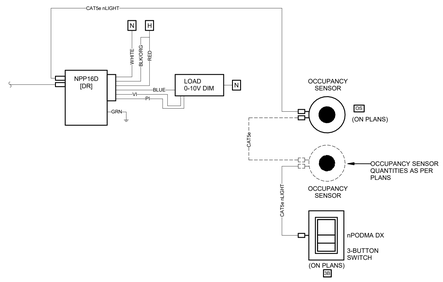
A - LIGHTING SEQUENCE (LZ-16)
SCALE: NTS



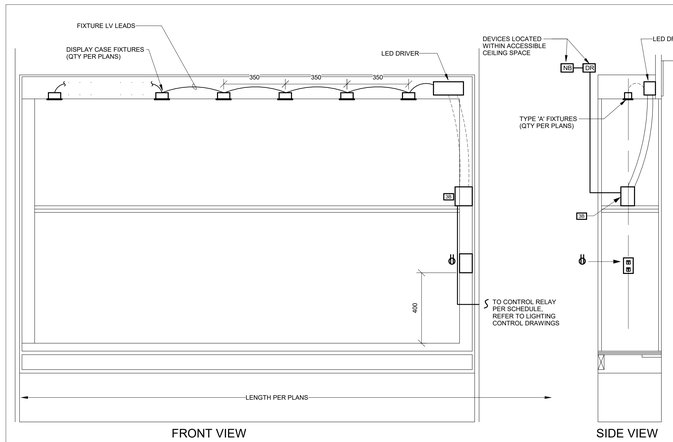
B - WASHROOM/CHANGEROOM OCCUPANCY CONTROL
SCALE: NTS



C - TYPICAL CLASSROOM MULTI-LEVEL OCCUPANCY CONTROL
SCALE: NTS



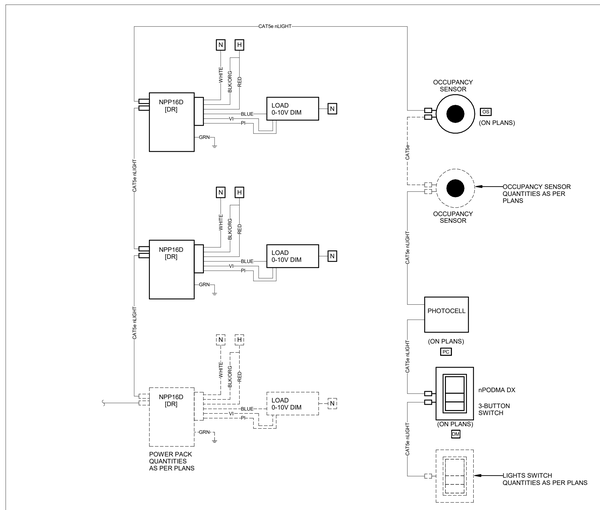
D - LIGHTING SEQUENCE (LZ-1)
SCALE: NTS



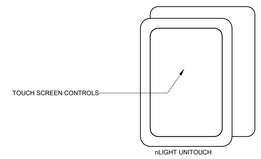
NOTES:

1. 0-10V DIMMER SWITCH (DS) FLUSH MOUNTED TO SIDE OF DISPLAY CASE STRUCTURE. INCLUDE LV 0-10V WIRING TO REMOTE FIXTURE DRIVER MOUNTED IN TOP CAVITY OF DISPLAY CASE.
2. REFER TO ARCHITECTURAL DETAILS FOR EXACT STRUCTURE/CONSTRUCTION OF DISPLAY CASE.
3. COORDINATE PLACEMENT OF RECEPTACLES WITH INTERIOR SHELVING, QUANTITIES PER PLANS.

G - TYPICAL DISPLAY CASE LIGHTING DETAIL
SCALE: NTS



E - LIGHTING SEQUENCE (LZ-9)
SCALE: NTS

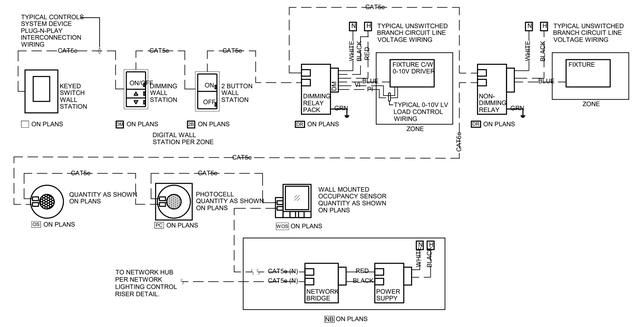


F - TOUCH SCREEN MASTER CONTROL STATION
SCALE: NTS

SB
ON PLANS

WIRING LEGEND

CAT5e	PLUG-N-PLAY UTP LOCAL CONTROLS DEVICE INTERCONNECTION WIRING
BLACK	LINE VOLTAGE WIRING IN CONDUIT (BLACK, WHITE, RED, BLUE)
VI PI	0-10V RELAY TO LOAD LOW VOLTAGE CONTROL WIRING (VI, PI)
CAT5e (N)	UTP BUILDING CONTROLS NETWORK INTERCONNECTION WIRING (DEVICE TO NETWORK BRIDGE/NETWORK BRIDGE TO NETWORK HUB)



NOTES:

1 TYPICAL LIGHTING CONTROLS SYSTEM WIRING & DEVICE INSTALLATION DETAIL IS DIAGRAMMATIC AND INDICATES BASIC CONNECTION REQUIREMENTS FOR LIGHTING CONTROLS SYSTEMS COMPONENT AND CONTROLLED LOAD WIRING. REFER TO SPECIFIC LIGHTING CONTROL SEQUENCE DETAIL AND SEQUENCE OF OPERATION FOR EACH SPACE TYPE.

2 PLUG-N-PLAY CONTROL WIRING AS INDICATED TO SUIT MANUFACTURER IS TO BE FIELD INSTALLED PLENUM RATED CAT5E CABLE C/W RJ45 CONNECTORS PROVIDED, INSTALLED, AND TESTED BY ELECTRICAL TRADE.

3 DIGITAL RELAYS ARE TO BE MOUNTED ON A JUNCTION BOX IN ACCESSIBLE LOCATION (CEILING SPACE, HIGH LEVEL ON WALL, ETC.) AS SHOWN AND NOTED ON PLANS.

4 LOCAL AND BUILDING NETWORK CONTROLS SYSTEM DEVICE INTERCONNECTION WIRING IS TO BE PER MANUFACTURER REQUIREMENTS AND CONSIST OF UTP CABLE IN CONDUIT OR PLENUM RATED UTP CABLE INSTALLED NEATLY IN CEILING SPACE WITH CABLE SUPPORTS. ALL CONTROLS SYSTEM UTP CABLING TO BE C/W FIELD INSTALLED CONNECTORS. REFER TO SPECIFICATIONS.

5 0-10V LV LOAD CONTROLS WIRING SHALL BE PER STANDARD 0-10V CONFIGURATION CONSISTING OF 2#18 MINIMUM.

6 CEILING MOUNTED OCCUPANCY SENSORS SHALL BE INSTALLED ONTO SUITABLE BACKBOX PER MANUFACTURER REQUIREMENTS AND LOCATED A MINIMUM OF 605mm (24") FROM CEILING DIFFUSERS AND 300mm (12") FROM ADJACENT LIGHT FIXTURES. COORDINATE FINAL SENSOR LOCATIONS ON SITE TO ENSURE ADEQUATE COVERAGE.

7 WALL MOUNTED OCCUPANCY SENSORS SHALL BE INSTALLED ONTO SUITABLE BACKBOX PER MANUFACTURER REQUIREMENTS AND LOCATED AT A MAXIMUM HEIGHT AS NOTED ON PLANS (APPROX. 3.0m A.F.F.) OR PER MANUFACTURER RECOMMENDATIONS TO PROVIDE SUITABLE SENSOR COVERAGE. PROVIDE WIRE GUARDS AS INDICATED ON PLANS.

8 WALL STATIONS SHALL BE GANGED TOGETHER IN COMMON BACKBOX WITH COMMON FACEPLATE IN GROUPINGS AS INDICATED ON PLANS.

9 REFER TO FLOOR PLANS FOR LIGHTING AND LOAD CONTROLLED BRANCH CIRCUIT DESIGNATIONS AND LOAD ZONING CONFIGURATIONS.

10 REFER TO PROJECT SPECIFICATIONS FOR LIGHTING CONTROLS SYSTEM PRODUCT CATALOG NUMBERS AND ACCEPTABLE MANUFACTURERS.

11 REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF INDICATED DEVICES.

12 INCLUDE EXTENSION OF UNSWITCHED NORMAL LIGHTING CIRCUIT FROM ADJACENT SPACE FOR EMERGENCY RELAY LINE SENSE CONNECTIONS PER CONTROLS MANUFACTURER RECOMMENDATIONS.

13 NETWORK BRIDGES INDICATED ON PLANS AND SEQUENCE DETAILS REPRESENT QUANTITIES AND CONNECTIONS TO NETWORK HUBS / NETWORK MANAGER SHALL BASED ON QUANTITY OF NETWORKED SPACE CONTROLS SEQUENCES PER SEQUENCE DETAILS AND SEQUENCE OF OPERATION SCHEDULE.

H - TYPICAL LIGHTING CONTROLS SYSTEM & WIRING DEVICE INSTALLATION
SCALE: NTS

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Project Number

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Limited Engineering Licensee
Name: O.G. MCCONKEY
Number: 100176
Limitations: limited design, reports, and specifications for the mechanical systems described herein and only conformity to those systems in new and renovation construction.
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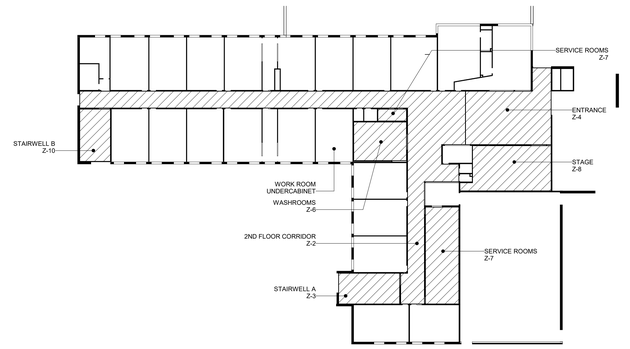
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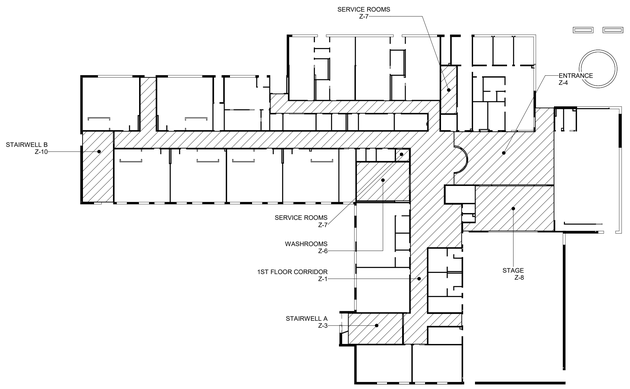
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LIGHTING CONTROLS PAGE 1 OF 3

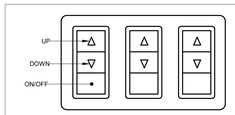
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4-2150 DUNWIN DRIVE
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Tel (905) 607-8284 Fax (905) 607-8290

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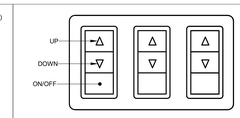




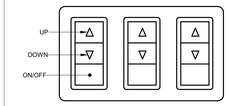
A - LIGHTING CONTROL NETWORK ZONES
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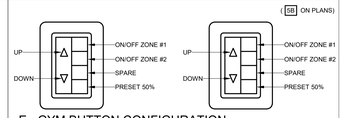
B - CLASSROOM BUTTON CONFIGURATION
SCALE: NTS



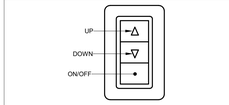
C - KINDERGARTEN BUTTON CONFIGURATION
SCALE: NTS



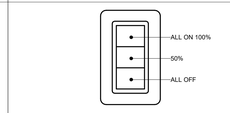
D - LEARNING COMMONS BUTTON CONFIGURATION
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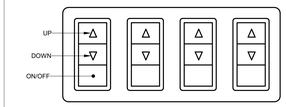
E - GYM BUTTON CONFIGURATION
SCALE: NTS



F - DECORATIVE FAN BUTTON CONFIGURATION
SCALE: NTS



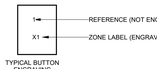
G - OFFICE BUTTON CONFIGURATION
SCALE: NTS



H - SCIENCE CLASSROOM BUTTON CONFIGURATION
SCALE: NTS

NOTES:

1. REFER TO LIGHTING PLANS FOR GROUPINGS.
2. WALL STATION BUTTONS TO BE ENGRAVED WITH LABELS ACCORDING TO LEVEL AS NOTED. COORDINATE LABELS WITH OWNER. PROVIDE BUTTON ENGRAVING WORKSHEET WITH SHOP DRAWING SUBMISSION FOR REVIEW. WORKSHEETS TO BE COMPLETED FOR EACH CONTROL STATION GROUP. USE SINGLE MULTI-GANG FACEPLATE, FINISH PER SPECIFICATIONS.
3. REFER TO SPECIFICATIONS FOR INFORMATION REGARDING PROGRAMING OF INPUT DEVICES AND DIGITAL WALL STATIONS PER ROOM TYPE.



TYPICAL BUTTON ENGRAVING

LIGHTING CONTROL SYSTEMS SEQUENCE OF OPERATION

Space Type	Room Names	Control Sequence / Control Device(s):	Control System
Public Corridors/Vestibules	TYPICAL FOR SCHOOL CORRIDORS AND VESTIBULES	Sequence: AUTO ON: ECLYPSE system controller signal corridor zones after school opening to allow occupancy sensors to adjust fixture brightness. ON FULL: Lights turned to 100% output via occupancy in each corridor zone. NORMAL HOURS AUTO ADJUST: 20 minutes after corridor zone is vacated, lights dim to 40% output. AUTO OFF: ECLYPSE system controller signal corridor zones after school closing to restrict occupancy sensors to switch fixtures on/off only. AUTO ADJUST: Lights in daylight zones automatically turn off via daylight sensor if sufficient daylight is detected. (Where applicable). AFTER HOURS AUTO OFF: 20 minutes after corridor zone is vacated, lights turn off. FIRE ALARM: Upon signal from fire alarm system, bypass all timing inputs, scenes, and other programming such that lights are at 100% output.	DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM CONTROLLER & GRAPHIC TOUCH SCREEN
Enclosed Offices, Admin Area, Workrooms, Resource Rooms	TYPICAL	Sequence: ON: Lights turned on manually via wall station(s) (vacancy mode). ADJUST: The occupant manually adjusts lighting within the room to desired level via wall dimmer. OFF: 5 minutes after the room has been vacated, the lights will automatically turn off.	DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM CONTROLLER, GRAPHIC TOUCH SCREEN AND PLUG LOAD CONTROL
Public Washrooms/Change Rooms	TYPICAL	Sequence: ON: Lights turned on automatically via occupancy sensor (where applicable). OFF: 5 minutes after the room has been vacated, the lights will automatically turn off. AUTO PLUGS: 50% of receptacles within room automatically shutoff after hours via time signal through ECLYPSE system controller.	DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM CONTROLLER & GRAPHIC TOUCH SCREEN
Storage/Private Washrooms	TYPICAL	Sequence: ON: Lights turned on manually via wall sensor switch (vacancy mode). OFF: 5 minutes after the room has been vacated, the lights will automatically turn off.	DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM
Classrooms	TYPICAL	Sequence: ON: Lights turned on manually via wall station(s) (vacancy mode). ADJUST: The occupant manually adjusts lighting groups within the room to desired level or preset via wall dimmer(s). OFF: 5 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume. AUTO PLUGS: 50% of receptacles within room automatically shutoff after hours via time signal through ECLYPSE system controller.	DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM CONTROLLER, GRAPHIC TOUCH SCREEN AND PLUG LOAD CONTROL
Learning Commons	LIBRARY	Sequence: ON: Lights turned on manually via wall station(s) (vacancy mode). ADJUST: The occupant manually adjusts lighting groups within the room to desired level via wall dimmer station(s). AUTO ADJUST: Lights in daylight zones automatically off via daylight sensor if sufficient daylight is detected. (Where Applicable). OFF: 5 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume. AUTO PLUGS: 50% of receptacles within room automatically shutoff after hours via time signal through ECLYPSE system controller.	DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM CONTROLLER, GRAPHIC TOUCH SCREEN AND PLUG LOAD CONTROL
Display Cases	TYPICAL	Sequence: ON AM: Lights turn on automatically 1 hour before opening via time clock. OFF AM: Lights automatically off after owner preferred time via time clock. ADJUST: The occupant manually adjusts lighting within the display case via local dimmer switch. Admin or custodial staff may manually adjust lighting circuit on/off via master station. after school hours normal AM/PM operation to resume. ON: Receptacles turned on automatically at school opening via time signal (BAS). OFF: Receptacles turned off automatically after school closing via time signal (BAS).	DIGITAL LIGHTING RELAY C/W ECLYPSE SYSTEM AND PLUG LOAD CONTROLS
Gymnasium	GYM	Sequence: ON: Lights turned on automatically to low setting via occupancy sensor. ADJUST: The occupant manually adjusts lighting groups within the room to desired level or preset via wall dimmer stations. OFF: 5 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture group lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume.	DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM CONTROLLER & GRAPHIC TOUCH SCREEN
Exterior	POLE FIXTURES WALL PACKS CANOPY FIXTURES	Sequence: ON PM: Lights turn on automatically at sunset via nlight ECLYPSE controller. OFF PM: Lights off automatically via nlight ECLYPSE controller. ON AM: Lights turn on automatically 1 hour before opening via nlight ECLYPSE controller. OFF AM: Lights automatically off after owner preferred time after sunrise via nlight ECLYPSE controller.	DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM CONTROLLER & GRAPHIC TOUCH SCREEN
Stairwells	TYPICAL FOR SCHOOL STAIRWELLS	Sequence: NIGHTLIGHT AUTO ON: Eclypse system signal stair zones turn on upon school opening. NIGHTLIGHT AUTO OFF: Eclypse system signal stair zones turn off upon school closing. AUTO ON: Eclypse system signal stairwell zones after school opening to allow occupancy sensors to adjust fixture brightness. ON FULL: Lights turned to 100% output via occupancy in each stairwell zone. NORMAL HOURS AUTO ADJUST: 20 minutes after stairwell zone is vacated, lights dim to 40% output. AUTO OFF: Eclypse system signal stairwell zones after school closing to restrict occupancy sensors to switch fixtures on/off only. AFTER HOURS AUTO OFF: 20 minutes after stairwell zone is vacated, lights turn off. FIRE ALARM: Upon signal from fire alarm system, bypass all timing inputs, scenes, and other programming such that lights are at 100% output.	DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM CONTROLLER & GRAPHIC TOUCH SCREEN

SYSTEM DESCRIPTIONS:

DIGITAL LIGHTING RELAY C/W NLIGHT ECLYPSE SYSTEM CONTROLLER, GRAPHIC TOUCH SCREEN FOR COMMON SPACES AND PLUG LOAD CONTROL.	

NOTES:

1. ALL INDICATED TIMES, INCLUDING 'SCHOOL OPENING' AND 'SCHOOL CLOSING', SHALL BE COORDINATED WITH SCHOOL BOARD REPRESENTATIVE AND SHALL ACTIVATE VIA BAS POINT FOR SCHOOL SECURITY SYSTEM 'ARMED' AND 'DISARMED'. ALL NETWORKED LIGHTING SYSTEMS SHALL GO TO FULL BRIGHTNESS UPON RECEIVING BAS SIGNAL FOR SECURITY SYSTEM 'ALARM'. REPORT ANY DISCREPANCIES BETWEEN SEQUENCE AND CONTROL DEVICES TO ENGINEER PRIOR TO PROGRAMMING. COORDINATE PROGRAMMING OF ANY SPACES NOT LISTED WITH BOARD REPRESENTATIVE.
2. ALL DIGITAL LIGHTING RELAY SHALL BE INTERCONNECTED VIA NETWORK BRIDGES AND NLIGHT ECLYPSE SYSTEM CONTROLLER W/ GRAPHIC TOUCH SCREEN. HOWEVER ALL ROOMS ARE TO BE PROGRAMMED TO FUNCTION INDEPENDENTLY. CONFIRM THE TOUCH SCREEN ALLOWS ALL ROOMS TO BE OVERRIDEN TO ON/OFF OR OTHERWISE.
3. ALL PLUG LOAD ROOM CONTROL SYSTEMS SHALL BE INTERCONNECTED VIA NETWORK BRIDGES AND NLIGHT ECLYPSE SYSTEM CONTROLLER W/ GRAPHIC TOUCH SCREEN.

ALL LIGHTING CONTROL SYSTEM PARTS/EQUIPMENT AND COMMISSIONING IS PART OF CASH ALLOWANCE

ALL LIGHTING CONTROL SYSTEM CONDUIT/WIRING, FULL SYSTEM INSTALLATION AND COORDINATION WITH SELECTED LIGHTING CONTROL VENDOR WILL BE PART OF BASE BID.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
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Project Number:

Professional Engineers Ontario
Limited Engineering Licensee
Name: D.G. MCCONKEY
Signature:
Limitations: limited design, reports and specifications for the mechanical systems only. Design and drawings conforming to these systems in new and renovation construction.
Date: 2026-11-04
Association of Professional Engineers of Ontario

NO.	DESCRIPTION	DATE
2	ISSUED FOR TENDER	26.11.04
1	ISSUED FOR PERMIT	26.03.06

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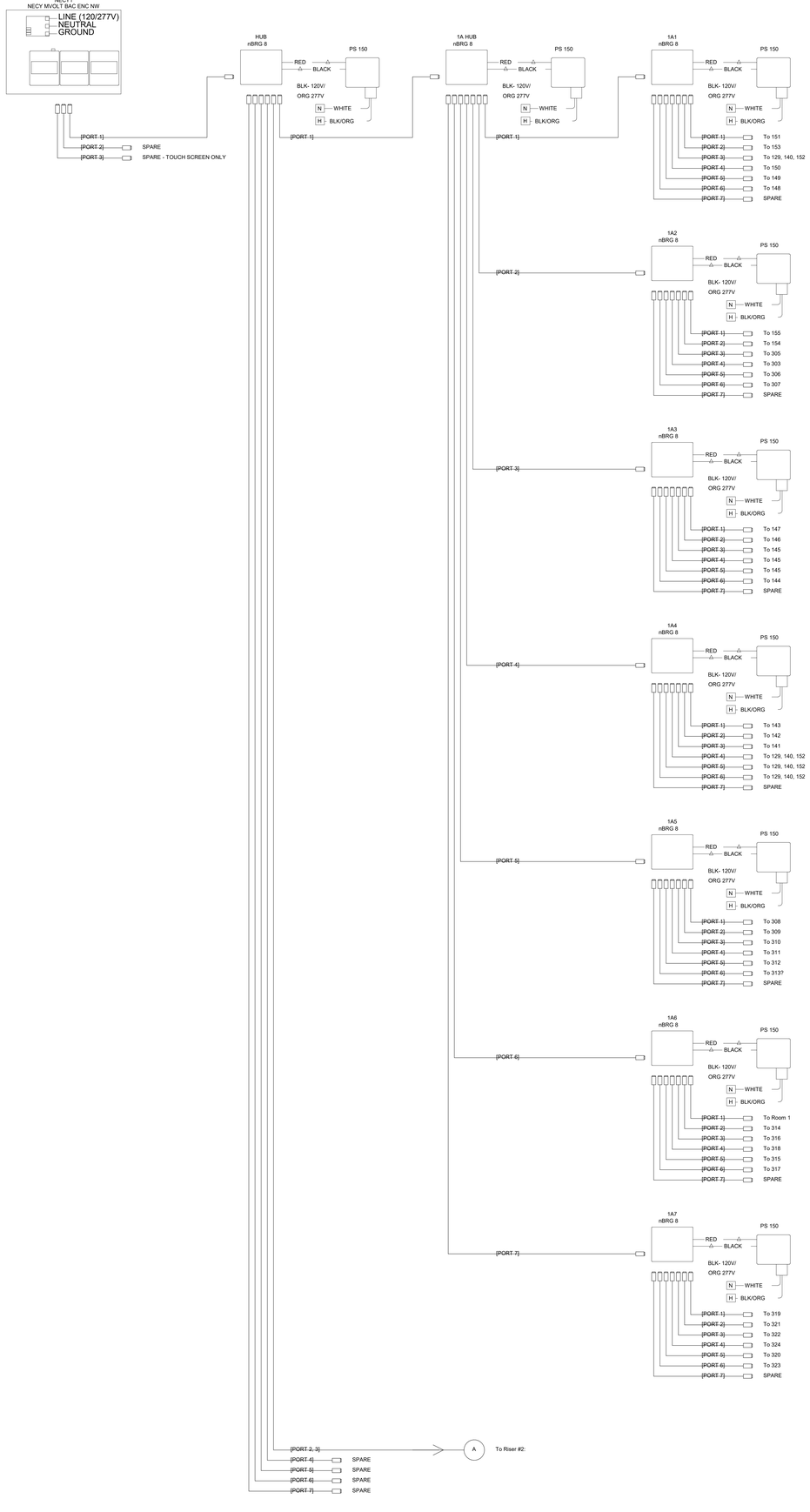
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LIGHTING CONTROLS PAGE 2 OF 3

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SCALE	As indicated
DATE	2026.04.17
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A - CENTRAL LIGHTING CONTROL
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Limitations: limited design, reports and specifications for all electrical systems in new and renovated construction conforming to these systems in new and renovated construction.
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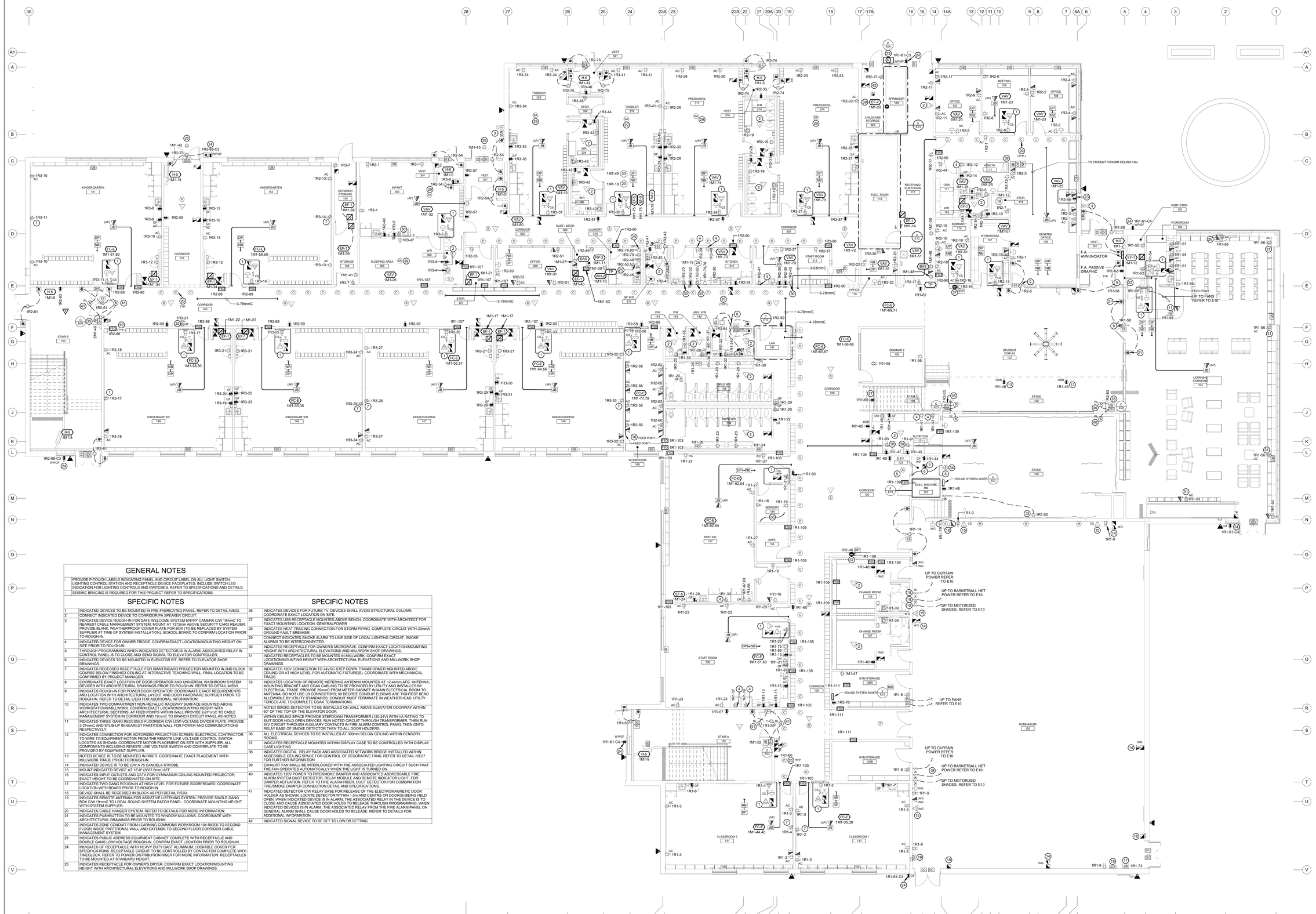
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LIGHTING CONTROLS PAGE 3 OF 3

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GENERAL NOTES

- PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL LIGHT SWITCH, LIGHTING CONTROL STATION AND RECEPTACLE DEVICE FACEPLATES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES. REFER TO SPECIFICATIONS AND DETAILS.
- SEISMIC BRACING IS REQUIRED FOR THIS PROJECT REFER TO SPECIFICATIONS.

SPECIFIC NOTES

1	INDICATED DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL. REFER TO DETAIL N/E03.
2	CONNECT INDICATED DEVICE TO CORRIDOR PA SPEAKER CIRCUIT.
3	INDICATES DEVICE ROUGH-IN FOR SAFE WELCOME SYSTEM ENTRY CAMERA C/W 19mmC TO NEAREST CABLE MANAGEMENT SYSTEM. MOUNT AT 1372mm ABOVE SECURITY CARD READER. PROVIDE BLANK, WEATHERPROOF COVER PLATE FOR BOX (TO BE REPLACED BY SYSTEM SUPPLIER AT TIME OF SYSTEM INSTALLATION). SCHOOL BOARD TO CONFIRM LOCATION PRIOR TO ROUGH-IN.
4	INDICATED DEVICE FOR OWNER FRIDGE. CONFIRM EXACT LOCATION/MOUNTING HEIGHT ON SITE PRIOR TO ROUGH-IN.
5	THROUGH PROGRAMMING WHEN INDICATED DETECTOR IS IN ALARM, ASSOCIATED RELAY IN CONTROL PANEL IS TO CLOSE AND SEND SIGNAL TO ELEVATOR CONTROLLER.
6	INDICATED DEVICES TO BE MOUNTED IN ELEVATOR PIT. REFER TO ELEVATOR SHOP DRAWINGS.
7	INDICATES RECESSED RECEPTACLE FOR SMARTBOARD PROJECTOR MOUNTED IN 2ND BLOCK COURSE BELOW FINISHED CEILING AT INTERACTIVE TEACHING WALL. FINAL LOCATION TO BE CONFIRMED BY PROJECT MANAGER.
8	COORDINATE EXACT LOCATION OF DOOR OPERATOR AND UNIVERSAL WASHROOM SYSTEM DEVICES WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO DETAIL N/E03.
9	INDICATES ROUGH-IN FOR POWER DOOR OPERATOR. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH ARCHITECTURAL LAYOUT AND DOOR HARDWARE SUPPLIER PRIOR TO ROUGH-IN. REFER TO DETAIL L/E03 FOR ADDITIONAL INFORMATION.
10	INDICATES TWO COMPARTMENT NON-METALLIC RACEWAY SURFACE MOUNTED ABOVE WORKSTATION/MILLWORK. CONFIRM EXACT LOCATION/MOUNTING HEIGHT WITH ARCHITECTURAL SECTIONS. AT FEED POINTS WITHIN WALL PROVIDE 2-27mmC TO CABLE MANAGEMENT SYSTEM IN CORRIDOR AND 19mmC TO BRANCH CIRCUIT PANEL AS NOTED.
11	INDICATES THREE GANG RECESSED FLOORBOX C/W LOW-VOLTAGE DIVIDER PLATE. PROVIDE 2-27mmC AND STUB-UP IN NEAREST PARTITION WALL FOR POWER AND COMMUNICATIONS RESPECTIVELY.
12	INDICATES CONNECTION FOR MOTORIZED PROJECTION SCREEN. ELECTRICAL CONTRACTOR TO WIRE TO EQUIPMENT MOTOR FROM THE REMOTE LINE VOLTAGE CONTROL SWITCH LOCATED AS SHOWN. COORDINATE MOTOR PLACEMENT ON SITE WITH SUPPLIER. ALL COMPONENTS INCLUDING REMOTE LINE VOLTAGE SWITCH AND COVERPLATE TO BE PROVIDED BY EQUIPMENT SUPPLIER.
13	NOTED DEVICE IS TO BE MOUNTED IN RISER. COORDINATE EXACT PLACEMENT WITH MILLWORK TRADE PRIOR TO ROUGH-IN.
14	INDICATED DEVICE IS TO BE C/W A 75 CANDELA STROBE.
15	MOUNT INDICATED DEVICE AT 12'-0" (3657.6mm) AFF.
16	INDICATES INPUT OUTLETS AND DATA FOR GYMNASIUM CEILING MOUNTED PROJECTOR, EXACT HEIGHT TO BE COORDINATED ON SITE.
17	INDICATES TWO GANG ROUGH-IN AT HIGH LEVEL FOR FUTURE SCOREBOARD. COORDINATE LOCATION WITH BOARD PRIOR TO ROUGH IN
18	DEVICE SHALL BE RECESSED IN BLOCK AS PER DETAIL P/E03.
19	INDICATES REMOTE ANTENNA FOR ASSISTIVE LISTENING SYSTEM. PROVIDE SINGLE GANG BOX C/W 19mmC TO LOCAL SOUND SYSTEM PATCH PANEL. COORDINATE MOUNTING HEIGHT WITH SYSTEM SUPPLIER.
20	INDICATES CABLE HANGER SYSTEM. REFER TO DETAILS FOR MORE INFORMATION.
21	INDICATES PUSH-BUTTON TO BE MOUNTED TO WINDOW MULLIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHIN.
22	INDICATES ZONE CONDUIT FROM LEARNING COMMONS WORKROOM 104 RISES TO SECOND FLOOR INSIDE PARTITIONAL WALL AND EXTENDS TO SECOND FLOOR CORRIDOR CABLE MANAGEMENT SYSTEM.
23	INDICATES PUBLIC ADDRESS EQUIPMENT CABINET COMPLETE WITH RECEPTACLE AND DOUBLE GANG LOW-VOLTAGE ROUGH-IN. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN.
24	INDICATES GF RECEPTACLE WITH HEAVY DUTY CAST ALUMINUM, LOCKABLE COVER PER SPECIFICATIONS. RECEPTACLE CIRCUIT TO BE CONTROLLED BY CONTACTOR COMPLETE WITH TIME/CLOCK. REFER TO POWER DISTRIBUTION RISER FOR MORE INFORMATION. RECEPTACLES TO BE MOUNTED AT STANDARD HEIGHT.
25	INDICATES RECEPTACLE FOR OWNER'S DRYER. CONFIRM EXACT LOCATION/MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND MILLWORK SHOP DRAWINGS.

SPECIFIC NOTES

26	INDICATES DEVICES FOR FUTURE TV. DEVICES SHALL AVOID STRUCTURAL COLUMN. COORDINATE EXACT LOCATION ON SITE.
27	INDICATES USB RECEPTACLE MOUNTED ABOVE BENCH. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING LOCATION. GENERALPOWER
28	INDICATES HEAT TRACING CONNECTION FOR STORM PIPING. COMPLETE CIRCUIT WITH 33mmA GROUND FAULT BREAKER.
29	CONNECT INDICATED SMOKE ALARM TO LINE SIDE OF LOCAL LIGHTING CIRCUIT. SMOKE ALARMS TO BE INTERCONNECTED.
30	INDICATES RECEPTACLE FOR OWNER'S MICROWAVE. CONFIRM EXACT LOCATION/MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND MILLWORK SHOP DRAWINGS.
31	INDICATED RECEPTACLES TO BE MOUNTED IN MILLWORK. CONFIRM EXACT LOCATION/MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND MILLWORK SHOP DRAWINGS.
32	INDICATES 120V CONNECTION TO 24VDC STEP DOWN TRANSFORMER MOUNTED ABOVE CEILING OR AT HIGH LEVEL FOR AUTOMATIC FIXTURE(S). COORDINATE WITH MECHANICAL TRADE.
33	INDICATES LOCATION OF REMOTE METERING ANTENNA MOUNTED AT ~2.44mm AFG. ANTENNA, MOUNTING BRACKET AND COAX CABLING TO BE PROVIDED BY UTILITY AND INSTALLED BY ELECTRICAL TRADE. PROVIDE 35mmC FROM METER CABINET IN MAIN ELECTRICAL ROOM TO ANTENNA. DO NOT USE LB CONNECTORS. 90 DEGREE CONDUIT ELBOWS ARE TIGHTEST BEND ALLOWABLE BY UTILITY STANDARDS. CONDUIT MUST TERMINATE IN WEATHERHEAD. UTILTY FORCES ARE TO COMPLETE COAX TERMINATIONS.
34	NOTED SMOKE DETECTOR TO BE INSTALLED ON WALL ABOVE ELEVATOR DOORWAY WITHIN 60" OF THE TOP OF THE ELEVATOR DOOR.
35	WITHIN CEILING SPACE PROVIDE STEPDOWN TRANSFORMER (120-24V) WITH VA RATING TO SUIT DOOR HOLD OPEN DEVICES. RUN NOTED CIRCUIT THROUGH TRANSFORMER. THEN RUN 24V CIRCUIT THROUGH AUXILIARY CONTACTS IN FIRE ALARM CONTROL PANEL THEN ONTO RELAY BASE OF SMOKE DETECTOR THEN TO ALL DOOR HOLDERS.
36	ALL ELECTRICAL DEVICES TO BE INSTALLED AT 300mm BELOW CEILING WITHIN SENSORY ROOMS.
37	INDICATES RECEPTACLE MOUNTED WITHIN DISPLAY CASE TO BE CONTROLLED WITH DISPLAY CASE LIGHTING.
38	INDICATES DIGITAL RELAY PACK AND ASSOCIATED NETWORK BRIDGE INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF DECORATIVE FANS. REFER TO DETAIL K/E07 FOR FURTHER INFORMATION.
39	EXHAUST FAN SHALL BE INTERLOCKED WITH THE ASSOCIATED LIGHTING CIRCUIT SUCH THAT THE FAN OPERATES AUTOMATICALLY WHEN THE LIGHT IS TURNED ON.
40	INDICATES 120V POWER TO FIRE/SMOKE DAMPER AND ASSOCIATED ADDRESSABLE FIRE ALARM SYSTEM DUCT DETECTOR. RELAY MODULE AND REMOTE INDICATOR LIGHT. FOR DAMPER ACTUATION. REFER TO FIRE ALARM RISER, DUCT DETECTOR FOR COMBINATION FIRE/SMOKE DAMPER CONNECTION DETAIL AND SPECIFICATIONS.
41	INDICATED DETECTOR C/W RELAY BASE FOR RELEASE OF THE ELECTROMAGNETIC DOOR HOLDER AS SHOWN. LOCATE DETECTOR WITHIN 1.5m AND CENTRE ON DOOR(S) BEING HELD OPEN. WHEN INDICATED DEVICE IS IN ALARM, THE ASSOCIATED RELAY IN THE DEVICE IS TO CLOSE AND CAUSE ASSOCIATED DOOR HOLDS TO RELEASE THROUGH PROGRAMMING. WHEN INDICATED DEVICES IS IN ALARM, THE ASSOCIATED RELAY FROM THE FIRE ALARM PANEL ON GENERAL ALARM SHALL CAUSE DOOR HOLDS TO RELEASE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
42	INDICATED SIGNAL DEVICE TO BE SET TO LOW DB SETTING.

GROUND FLOOR POWER & SYSTEMS PLAN
SCALE: 1 : 100

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Project Number:xxxx

Professional Engineer — Province of Ontario
Limited Engineering Licensee
Name: O.G. MCCONKEY
Signature: [signature]
Limitations: limited design, reports, and specifications for the mechanical systems only. Design and drawings conforming to these systems in new and renovation construction.
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GROUND FLOOR POWER & SYSTEMS PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2765 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
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SCALE	1 : 100
PROJECT	16220
DATE	2026.04.17
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GENERAL NOTES

-	PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL LIGHT SWITCH, LIGHTING CONTROL STATION AND RECEPTACLE DEVICE FACEPLATES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES. REFER TO SPECIFICATIONS AND DETAILS.
-	SEISMIC BRACING IS REQUIRED FOR THIS PROJECT REFER TO SPECIFICATIONS.

SPECIFIC NOTES

1	INDICATED DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL. REFER TO DETAIL NE03.
2	CONNECT INDICATED DEVICE TO CORRIDOR PA SPEAKER CIRCUIT.
3	INDICATES TWO COMPARTMENT NON-METALLIC RACEWAY SURFACE MOUNTED ABOVE WORKSTATIONS/MILLWORK. CONFIRM EXACT LOCATION/MOUNTING HEIGHT WITH ARCHITECTURAL SECTIONS. AT FEED POINTS WITHIN WALL PROVIDE 2-27mmC TO CABLE MANAGEMENT SYSTEM IN CORRIDOR AND 19mmC TO BRANCH CIRCUIT PANEL AS NOTED.
4	INDICATED DEVICE(S) IS TO BE LOCATED AT THE TOP OF STAIR TOWER.
5	INDICATES RECESSED RECEPTACLE FOR SMARTBOARD PROJECTOR MOUNTED IN 2ND BLOCK COURSE BELOW FINISHED CEILING AT INTERACTIVE TEACHING WALL. FINAL LOCATION TO BE CONFIRMED BY PROJECT MANAGER.
6	INDICATED RECEPTACLES TO BE MOUNTED IN MILLWORK. CONFIRM EXACT LOCATION/MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND MILLWORK SHOP DRAWINGS.
7	INDICATED POWER AND COMMUNICATIONS UP FROM BELOW AT MILLWORK INTO CHASE AT BACK OF DESK.
8	INDICATED DEVICE IS TO BE MOUNTED AT TOP OF THE ELEVATOR SHAFT. COORDINATE WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
9	THROUGH PROGRAMMING WHEN INDICATED DETECTOR IS IN ALARM, ASSOCIATED RELAY IN CONTROL PANEL IS TO CLOSE AND SEND SIGNAL TO ELEVATOR CONTROLLER.
10	INDICATES CABLE HANGER SYSTEM. REFER TO DETAILS FOR MORE INFORMATION.
11	INDICATES CONNECTION AND NEMA L14-20R RECEPTACLE FOR NEW MOTORIZED CENTER DIVIDER CURTAIN. CONFIRM EXACT REQUIREMENTS AND CO-ORDINATE WORK WITH CURTAIN INSTALLER. REFER TO CURTAIN MANUFACTURER'S WIRING DIAGRAM. INCLUDE RECEPTACLE AT ROOF DECK AND ANY TEMPORARY WIRING ASSOCIATED WITH CURTAIN COMMISSIONING AND SET-UP. REMOTE CONTROL SWITCHES BY CURTAIN SUPPLIER, WIRED WITH 3#12 BY ELECTRICAL CONTRACTOR.
12	INDICATES RECEPTACLE FOR BASKETBALL NET SHOT CLOCK MOUNTED ON THE REAR SIDE OF EACH SINGLE POST AT A HEIGHT OF 1800mm ABOVE THE TOP OF EACH BACKBOARD. CONFIRM EXACT LOCATION AND REQUIREMENTS ON SITE WITH SHOT CLOCK SUPPLIER/INSTALLER.
13	INDICATES POWER CONNECTION FOR MOTORIZED BASKETBALL NET. THIS CONTRACTOR IS TO PROVIDE SINGLE GANG BOX ROUGH-IN FOR KEY SWITCH OPERATOR AT 1200mm AFF AND CIRCUIT AS NOTED FOR BASKETBALL NET MOTOR. THIS CONTRACTOR IS TO CONNECT AND MAKE OPERABLE THE OPERATORS AND NET MOTOR. COORDINATE WITH SHOP DRAWINGS.
14	INDICATES CONTINUATION OF ZONE CONDUIT FROM LEARNING COMMONS WORKROOM 104 ON GROUND FLOOR. EXTEND CONDUIT TO SECOND FLOOR CORRIDOR CABLE MANAGEMENT SYSTEM.
15	INDICATES MOTOR GROUP CONTROLLER. COORDINATE EXACT NUMBER AND LOCATION OF MOTOR GROUP CONTROLLERS AND SHADE MOTORS WITH SHADE PROVIDER PRIOR TO ROUGH-IN.
16	INDICATES SHADE MOTOR FEED QUICK CONNECT PROVIDED BY SHADE SUPPLIER. MOTOR FEED QUICK CONNECT TO BE WIRED BY ELECTRICAL CONTRACTOR TO MOTOR GROUP CONTROLLER CONTROL BRANCH VIA JUNCTION BOX AS SHOWN. MOUNT JUNCTION BOX WITHIN SHADE POCKET AT HEIGHT SHOWN. COORDINATE EXACT LOCATION WITH SHADE SUPPLIER AND ON-SITE. REFER TO DETAIL FE03.
17	INDICATES ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL DECORATIVE FAN IN CLERESTORY, TO BE STEM MOUNTED WITH BOTTOM OF FAN LEVEL WITH FLAT ROOF.
18	INDICATES HVLS FAN TO BE MOUNTED ON FLAT CEILING. COORDINATE WITH ARCHITECTURAL ELEVATIONS. HVLS FAN SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE FINAL CONNECTION. PROVIDE SUPERVISED FIRE ALARM RELAY CONNECTION FROM THE NEAREST ADDRESSABLE LOOP TO THE HVLS FAN (SF 1) CONTROLLER. UPON ACTIVATION OF THE LOCAL SPRINKLER ZONE IN WHICH THE HVLS FAN IS LOCATED, THE FIRE ALARM SYSTEM SHALL SEND A SIGNAL TO SHUT DOWN THE FAN IMMEDIATELY. REFER TO MANUFACTURER'S REQUIREMENTS AND COORDINATE CONDUIT ROUTING WITH BEAM LAYOUT.
19	WITHIN CEILING SPACE PROVIDE STEPDOWN TRANSFORMER (120-24V) WITH VA RATING TO SUIT DOOR HOLD OPEN DEVICES. RUN NOTED CIRCUIT THROUGH TRANSFORMER, THEN RUN 24V CIRCUIT THROUGH AUXILIARY CONTACTS IN FIRE ALARM CONTROL PANEL THEN ONTO RELAY BASE OF SMOKE DETECTOR THEN TO ALL DOOR HOLDERS.
20	INDICATES 120V CONNECTION TO 24VDC STEP DOWN TRANSFORMER MOUNTED ABOVE CEILING OR AT HIGH LEVEL FOR AUTOMATIC FIXTURE(S). COORDINATE WITH MECHANICAL TRADE.
21	INDICATES RECEPTACLE AND DATA OUTLET FOR CEILING PROJECTOR. COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
22	PROVIDE INTERLOCK FROM FAN TO BAS.
23	INDICATES 120V POWER TO FIRE/SMOKE DAMPER AND ASSOCIATED ADDRESSABLE FIRE ALARM SYSTEM DUCT DETECTOR, RELAY MODULE AND REMOTE INDICATOR LIGHT. FOR DAMPER ACTUATION. REFER TO FIRE ALARM RISER, DUCT DETECTOR FOR COMBINATION FIRE/SMOKE DAMPER CONNECTION DETAIL AND SPECIFICATIONS.
24	INDICATED DETECTOR C/W RELAY BASE FOR RELEASE OF THE ELECTROMAGNETIC DOOR HOLDER AS SHOWN. LOCATE DETECTOR WITHIN 1.5m AND CENTRE ON DOOR(S) BEING HELD OPEN. WHEN INDICATED DEVICE IS IN ALARM, THE ASSOCIATED RELAY IN THE DEVICE IS TO CLOSE AND CAUSE ASSOCIATED DOOR HOLDS TO RELEASE THROUGH PROGRAMMING. WHEN INDICATED DEVICES IS IN ALARM, THE ASSOCATED RELAY FROM THE FIRE ALARM PANEL ON GENERAL ALARM SHALL CAUSE DOOR HOLDS TO RELEASE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

SECOND FLOOR POWER & SYSTEMS PLAN
SCALE: 1 : 100

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Project Number:####
Consulting Engineers
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Professional Engineer Province of Ontario
Limited Engineering Licensee
Name: O.G. MCCONKEY
Date: 2026-10-04
Limitations: Limited design, reports and specification for the mechanical and electrical systems. Limited to conformity to these systems in new and renovation construction.
Association of Professional Engineers of Ontario.

NO.	DESCRIPTION	DATE
2	ISSUED FOR TENDER	26.11.04
1	ISSUED FOR PERMIT	26.03.06

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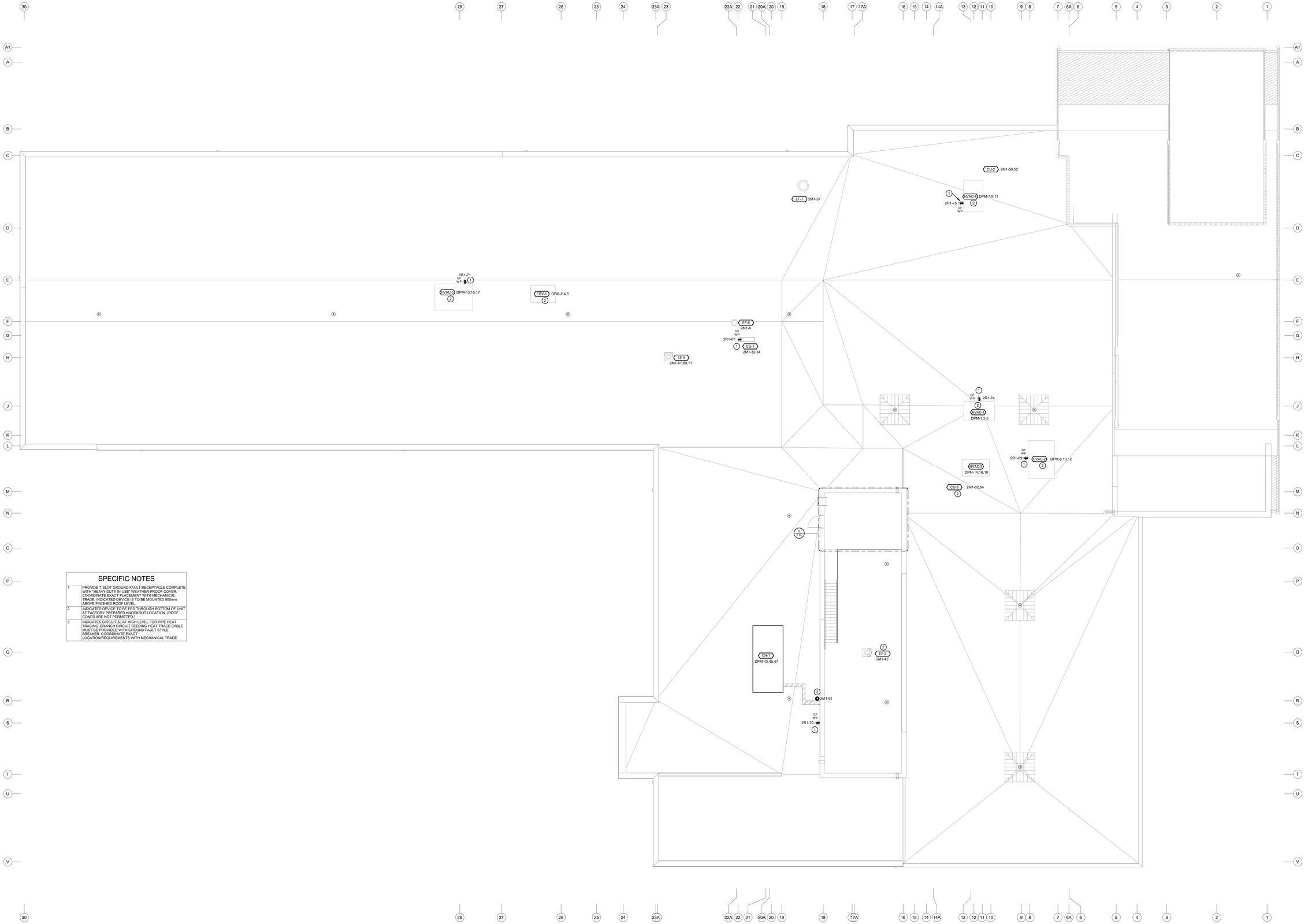
North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

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SECOND FLOOR POWER & SYSTEMS PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-8284 Fax: (905) 607-8290

SCALE 1 : 100	PROJECT 16220
DATE 2026.04.17	
DRAWN D.V.	DRAWING E11
CHECKED R.L.	
PRINT DATE	2026-11-04 10:24:18 AM
REVIT FILE	T:\2015\15121\02\Revit.RVT



SPECIFIC NOTES

1	PROVIDE T-SLOT GROUND FAULT RECEPTACLE COMPLETE WITH "HEAVY DUTY IN-USE" WEATHER-PROOF COVER. COORDINATE EXACT PLACEMENT WITH MECHANICAL TRADE. INDICATED DEVICE IS TO BE MOUNTED 900mm ABOVE FINISHED ROOF LEVEL.
2	INDICATED DEVICE TO BE FED THROUGH BOTTOM OF UNIT AT FACTORY PREPARED KNOCKOUT LOCATION. (ROOF CONES ARE NOT PERMITTED.)
3	INDICATES CIRCUIT(S) AT HIGH LEVEL FOR PIPE HEAT TRACING. BRANCH CIRCUIT FEEDING HEAT TRACE CABLE MUST BE PROVIDED WITH GROUND FAULT STYLE BREAKER. COORDINATE EXACT LOCATION/REQUIREMENTS WITH MECHANICAL TRADE.

ROOF POWER & SYSTEMS PLAN
SCALE: 1 : 100

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Project Numberunder

Professional Engineers Ontario
Limited Engineering Licensee
Name: O.G. MCCONKEY
Number: 100125206
Limitations: limited design, reporting, and specification for the mechanical systems of this project only. Design is in conformity to these systems in new and renovation construction.
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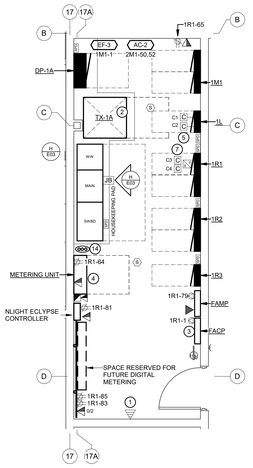
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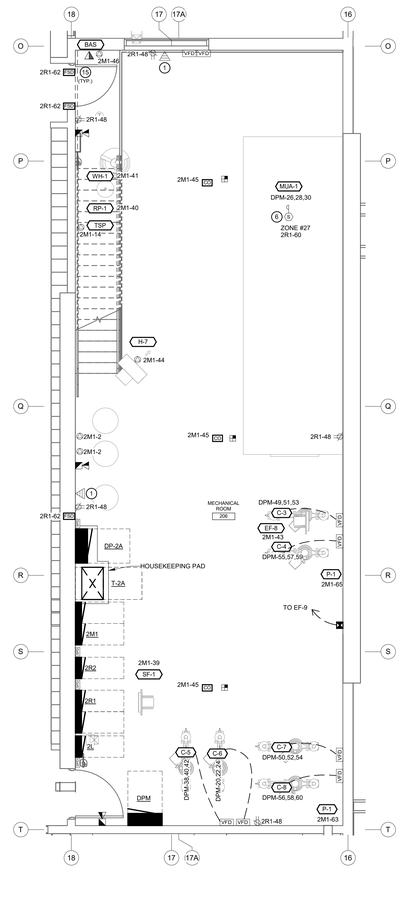
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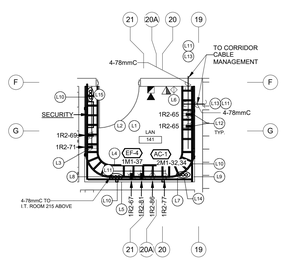
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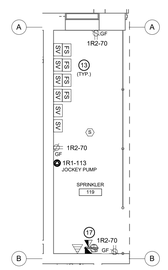
A - ELECTRICAL ROOM ENLARGED PLAN
SCALE: 1 : 50



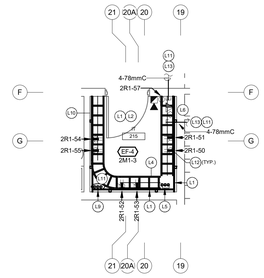
B - MECHANICAL ROOM ENLARGED PLAN
SCALE: 1 : 50



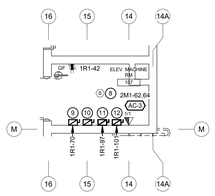
C - LAN ROOM 141 ENLARGED PLAN
SCALE: 1 : 50



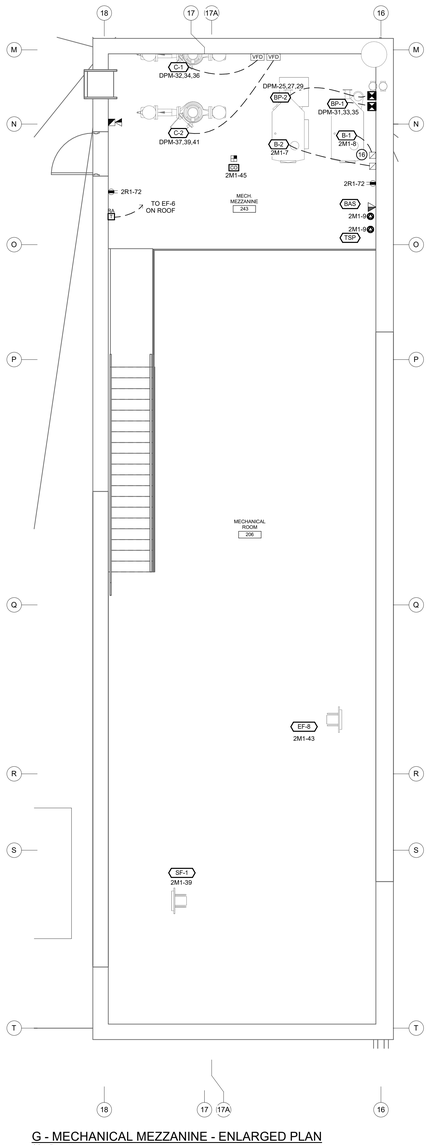
E - SPRINKLER ROOM
SCALE: 1 : 50



D - IT ROOM 215 ENLARGED PLAN
SCALE: 1 : 50



F - ELEVATOR MACHINE ROOM ENLARGED PLAN
SCALE: 1 : 50



G - MECHANICAL MEZZANINE - ENLARGED PLAN
SCALE: 1 : 50

SPECIFIC NOTES

1	INDICATES WALL MOUNTED PA HORN SPEAKER C/W CONDUIT TO CORRIDOR CABLE MANAGEMENT SYSTEM. COORDINATE MOUNTING LOCATION TO SUIT STRUCTURE AND EQUIPMENT INTERFERENCE.
2	INDICATED TRANSFORMER IS TO BE SUSPENDED FROM STRUCTURE ABOVE. REFER TO DETAIL J/E03.
3	INDICATES FIRE ALARM CONTROL PANEL AND ADJACENT ULC ALARM MONITORING COMMUNICATOR ENCLOSURE (BY SECURITY SUB-CONTRACTOR). PROVIDE 120V TERMINATED IN JUCTION BOX AT HIGH LEVEL FOR MONITORING COMMUNICATOR POWER. PROVIDE 21mmC FROM FIRE ALARM CONTROL PANEL TO COMMUNICATOR ENCLOSURE. PROVIDE 27mmC FROM FIRE ALARM CONTROL PANEL TO CORRIDOR CABLE MANAGEMENT TRAY. PROVIDE 19mmC FROM COMMUNICATOR ENCLOSURE TO VOICE BACKBOARD.
4	INDICATES MAIN SWITCHBOARD CUSTOMER DIGITAL METERING UNIT (BAS CONNECTION PLUS NETWORK). REFER TO SPECIFICATION. PROVIDE 19mmC TO JUNCTION BOX ADJACENT TO SWITCHBOARD FOR BAS CONTRACTOR USE. REFER TO DETAIL H/E03 FOR ELEVATION.
5	INDICATES 120V 20A MULTI-POLE LIGHTING DUTY CONTACTOR FOR CONTROL OF EXTERIOR LIGHTING C/W INTERNAL TRANSFORMER. 24V COIL, HAND/OFF/AUTO SELECTOR SWITCH AND RED PILOT LIGHT FOR CONTROL BY BAS INPUT.
6	INDICATES MUA DUCT DETECTOR WITH DUCTWORK LOCATED IN STRAIGHT RUN OF SUPPLY DUCT. LOCATE ASSOCIATED ADDRESSABLE DEVICE MOUDLES, RELAY, ETC TO 2ND FLOOR CEILING SPACE. COORDINATE LOCATION WITH DUCT STRUCTURE AND ACCESSORIES (SILENCERS) FOR SUITABLE RUN. DUCT DETECTOR TO BE A CONVENTIONAL TYPE. REFER TO FIRE ALARM RISER FOR ADDITIONAL INFORMATION.
7	CONTACTOR SHALL BE USED TO CONTROL THE EXTERIOR RECEPTACLES. PROVIDE 120V 20A-3P CONTACTOR C/W HAND/OFF/AUTO SELECTOR SWITCH, RED PILOT LIGHT AND INTERNAL CONTROL TRANSFORMER TO SUIT CONTROL BY TIMECLOCK. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
8	THROUGH PROGRAMMING WHEN INDICATED DETECTOR IS IN ALARM. ASSOCIATED RELAY IN CONTROL PANEL IS TO CLOSE AND SEND SIGNAL TO ELEVATOR CONTROLLER.
9	INDICATES 30A-1P FUSIBLE DISCONNECT C/W 15A FUSE FOR ELEVATOR CAB LIGHTING. REFER TO RISER DIAGRAM FOR DETAILS.
10	INDICATES FUSED DISCONNECT (C/W TWO SETS OF AUXILIARY CONTACTS) FOR ELEVATOR CONTROLLER. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
11	INDICATES 30A-1P FUSIBLE DISCONNECT C/W 15A FUSE FOR ELEVATOR COMMUNICATIONS SYSTEM DISCONNECT. CONFIRM LOCATION WITH ELEVATOR SHOP DRAWINGS.
12	INDICATES 30A-1P FUSIBLE DISCONNECT C/W 15A FUSE FOR IN-CAR GFI RECEPTACLE DISCONNECT. CONFIRM LOCATION WITH ELEVATOR SHOP DRAWINGS.
13	INDICATES MECHANICAL DEVICES TO BE CONNECTED TO FIRE ALARM SYSTEM. ELECTRICAL CONTRACTOR MUST COORDINATE ALL SPRINKLER CONNECTION LOCATIONS AND QUANTITIES WITH AWARDED SPRINKLER CONTRACTOR. THESE DRAWINGS DO NOT INDICATE THE EXACT LOCATION OR QUANTITY OF CONNECTIONS REQUIRED. REFER TO FIRE ALARM RISER FOR FURTHER INFORMATION.
14	INDICATES POWER DUCTS OUT TO FUTURE PORTABLES REFER TO SITE PLAN FOR ROUTE AND DUCT BANK CONFIGURATIONS. DUCTS ARE TO FEED BOTTOM OF DISTRIBUTION PANEL. GENERALPOWER.
15	INDICATES 120V POWER TO FIRE/SMOKE DAMPER AND ASSOCIATED ADDRESSABLE FIRE ALARM SYSTEM DUCT DETECTOR, RELAY MODULE AND REMOTE INDICATOR LIGHT. FOR DAMPER ACTUATION. REFER TO FIRE ALARM RISER. DUCT DETECTOR FOR COMBINATION FIRE/SMOKE DAMPER CONNECTION DETAIL AND SPECIFICATIONS.
16	INDICATED BOILER SHUT OFF SWITCHES TO BE MOUNTED AT 1800mm A.F.F. PROVIDE LAMICOID LABEL NOTING DEVICE CONTROLLED.
17	INDICATED SIGNAL DEVICE TO BE SET TO LOW DB SETTING.

LAN ROOM NOTES

L1	EQUIPMENT PLACEMENT SHOWN FOR RELATIVE EQUIPMENT POSITIONING ONLY. COORDINATE WITH SCHOOL BOARD I.T. REPRESENTATIVE.
L2	PROVIDE GROUNDING OF ALL CABLE TRAY, CONDUIT STUBS AND EQUIPMENT ENCLOSURES WITHIN HUB ROOM PER SPECIFICATIONS. ALL POTENTIAL CURRENT CARRYING COMPONENTS TO BE GROUNDED PER ANSI/EIA/TIA-607 UTILIZING #6 (MIN.) CU. INSULATED GROUND WIRE.
L3	INDICATED RECEPTACLE DEDICATED TO P.A. SYSTEM. COORDINATE EXACT LOCATION WITH P.A. CONTRACTOR ON SITE.
L4	INDICATES 305mm (12") SIDE BRACKET MOUNT LADDER TRAY, ANCHORED TO BOTH WALLS. MOUNT AT 2250mm AFF. COORDINATE MOUNTING HEIGHT WITH RACK, LIGHTING AND DUCTWORK.
L5	INDICATES 127mmx50mmx6mm (5"x2"x1/4") CU GROUND BUS MOUNTED AT TOP OF PLYWOOD BACKBOARD C/W #6 CU. (MIN.) INSULATED GROUND WIRE TO MAIN BUILDING GROUND.
L6	INSTALL BACKBOX FOR HANDSET DEVICE AT 1.2m AFF. PROVIDE SUITABLE WALL BRACKET FOR HANDSET.
L7	INDICATES LOCATION OF BCM TELEPHONE EQUIPMENT RACK AT PLYWOOD BACKBOARD. PROVIDE DUPLEX RECEPTACLES ON BACKBOARD TO SUIT. REFER TO SPECIFICATIONS.
L8	INDICATES LOCATION OF RISER CONDUITS TO FLOOR ABOVE. COORDINATE STUB LOCATIONS WITH ROOM LAYOUT ABOVE AND TRAY LOCATION. REFER TO TELECOM RISER.
L9	INDICATES 305mm (12") CABLE MANAGEMENT LADDER TRAY MOUNTED VERTICALLY TO WALL FROM FLOOR TO CEILING. PROVIDE UNISTRUT SUPPORT STRUCTURES BEHIND EACH RUN OF VERTICAL TRAY. PROVIDE COUPLING BETWEEN VERTICAL AND HORIZONTAL TRAY WHERE APPROPRIATE. POSITION VERTICAL TRAY RUNS TO SUIT INCOMING COMMUNICATIONS SERVICE DUCTS.
L10	INDICATES 2400mmH X LENGTH AS SHOWN 19mm PAINTED PLYWOOD BACKBOARD FOR AUXILIARY SERVICES AS NOTED.
L11	INDICATES RISER CONDUIT(S) C/W BUSHINGS BETWEEN LAN CLOSETS OR TO NEAREST CABLE MANAGEMENT SYSTEM. REFER TO TELECOM RISER DIAGRAM.
L12	INDICATED RECEPTACLES FOR DATA RACKS TO BE MOUNTED AT TOP AND MID-POINT OF PLYWOOD BACKBOARD RESPECTIVELY. ADJUST HEIGHT OF TOP RECEPTACLE AS TO NOT INTERFERE WITH OVERHEAD TRAY. COORDINATE EXACT LOCATION ON SITE WITH COMMUNICATIONS CONTRACTOR.
L13	PROVIDE PIPE CLAMP C/W GROUNDING CONNECTOR FOR INCOMING CONDUITS TO HUB ROOM.
L14	INDICATES LOCATION OF INCOMING CONDUITS FROM EXTERIOR. TERMINATE 100mm A/FF ABOVE CONCRETE RISER CURB. COORDINATE STUB LOCATIONS WITH VERTICAL TRAY MOUNTING. REFER TO TELECOMM RISER AND SITE PLAN FOR CONTINUATION.
L15	INDICATES COMMAS. DUCTS OUT TO FUTURE PORTABLES REFER TO SITE PLAN FOR ROUTE AND DUCT BANK CONFIGURATIONS.

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Professional Engineers Ontario
Limited Engineering Licensee
Name: O.G. MCCONKEY
Number: 100176
Limitations: limited design, reporting, and specification for the electrical systems described herein and conforming to those systems in new and renovation construction.
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2026-11-04

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HALTON CATHOLIC DISTRICT SCHOOL BOARD

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HOSSACK & ASSOCIATES ARCHITECTS
A-210 DUNNING DRIVE
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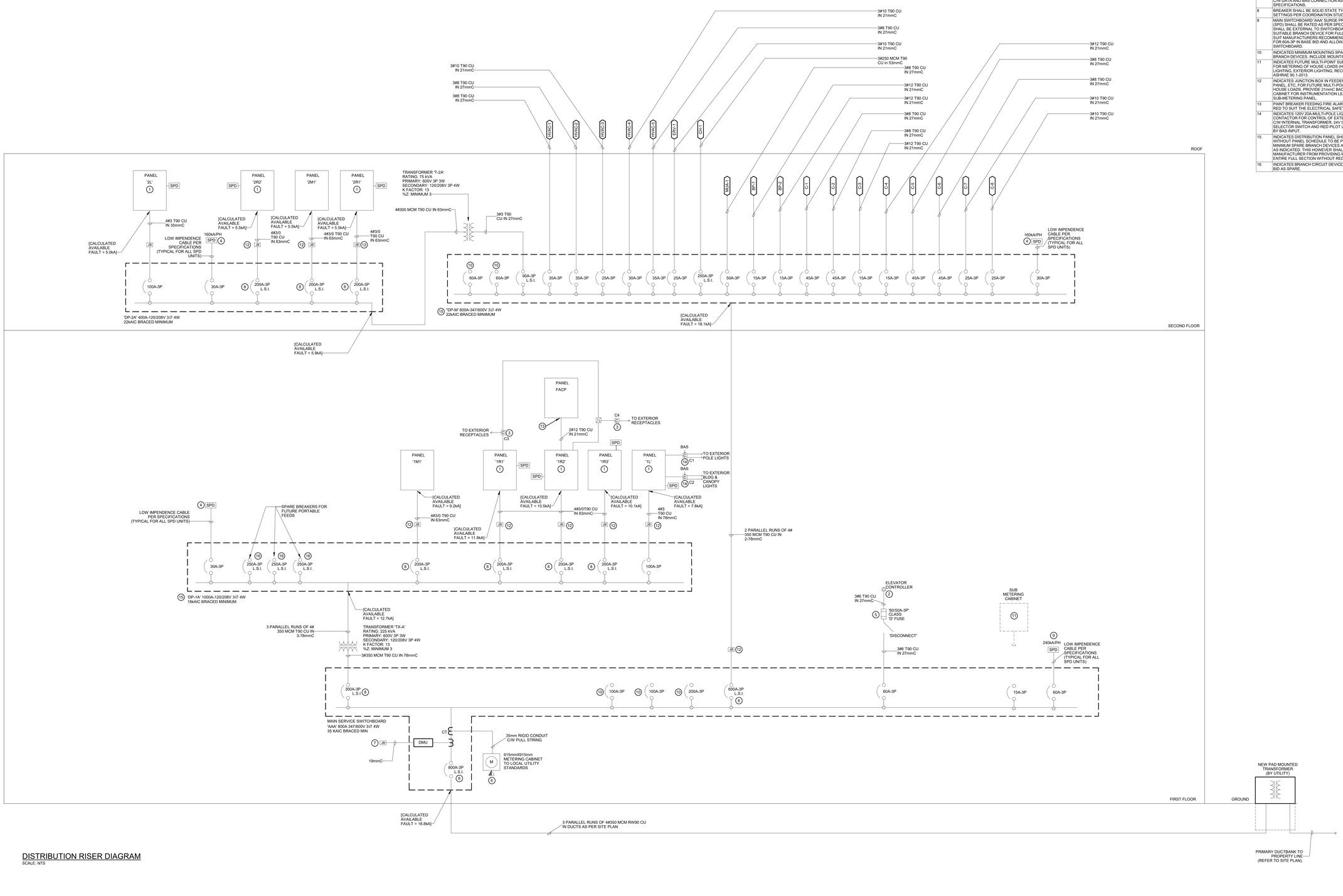
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GENERAL DISTRIBUTION RISER...

KEYNOTE	NOTE
A	REFER TO SPECIFICATION FOR INFORMATION REGARDING MOLDED CASE CIRCUIT BREAKERS
B	ALL DISTRIBUTION EQUIPMENT ARE TO BE PROVIDED WITH WARNING LABELS CONFORMING TO THE ONTARIO ELECTRICAL SAFETY CODE RULE #2-306(1),(2)
C	INSTALL GROUND WIRE TO SUIT THE ELECTRICAL SAFETY CODE IN ALL CONDUIT.
D	ALL LIGHTING CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS. SIZE BRANCH CONDUITS ACCORDINGLY.
E	ALL NOTED FEEDERS ARE FOR OVERHEAD RUNS OF CONDUIT. IF THE CONTRACTOR WISHES TO FEED UNDERGROUND, THE FEEDER MUST BE REVISED. THE CONTRACTOR IS TO PROPOSE REVISIONS TO THE CONSULTANT FOR PRE-APPROVAL.

SPECIFIC NOTES

1	INDICATES PANEL BOARD WITH SURGE PROTECTION PER SPECIFICATIONS. MOUNT SPD TO SIDE OF PANELBOARD WITH CLOSE CONDUIT NIPPLE. LOCATE AT APPROPRIATE HEIGHT RELATIVE TO BRANCH DEVICE TO MINIMIZE LOAD LENGTH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS. REFER TO COMMUNICATIONS RISER REGARDING SURGE PROTECTION FOR INCOMING COMMUNICATIONS SERVICE.
2	CONFIRM EXACT REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO INSTALLATION.
3	CONTACTOR IS TO CONTROL THE EXTERIOR RECEPTACLES. PROVIDE 120V 20A-3P CONTACTOR C/W HANDOFF/AUTO SELECTOR SWITCH, RED PILOT LIGHT AND INTERNAL CONTROL TRANSFORMER TO SUIT CONTROL BY TIMECLOCK. REFER TO SPECIFICATIONS FOR MORE INFORMATION
4	INDICATES DISTRIBUTION PANEL SURGE PROTECTION DEVICE (SPD) WITH RATINGS AS NOTED AND PER SPECIFICATIONS. SPD SHALL BE EXTERNAL TO PANEL. PROVIDE SUITABLE BRANCH DEVICE FOR FULL RATING OF SPD TO SUIT MANUFACTURERS RECOMMENDATIONS AND AS NOTED.
5	INDICATES ELEVATOR CONTROLLER DISCONNECT. PROVIDE C/W TWO SETS OF AUXILIARY CONTACTS TO SUIT THE ELEVATOR SUPPLIER.
6	INDICATES ANALOG LINE TO BE INSTALLED INTO METERING CABINET AS PER UTILITY STANDARDS. REFER TO COMMUNICATIONS RISER.
7	INDICATES MAIN SWITCHBOARD DIGITAL METERING UNIT C/W DATA AND BAS CONNECTION AS PER SPECIFICATIONS.
8	BREAKER SHALL BE SOLID STATE TYPE (L.S.I.), FINAL SETTINGS PER COORDINATION STUDY.
9	MAIN SWITCHBOARD 'AAA' SURGE PROTECTION DEVICE (SPD) SHALL BE RATED AS PER SPECIFICATIONS AND SHALL BE EXTERNAL TO SWITCHBOARD. PROVIDE SUITABLE BRANCH DEVICE FOR FULL RATING OF SPD TO SUIT MANUFACTURERS RECOMMENDATIONS. INCLUDE FOR 60A-3P IN BASE BID AND ALLOWABLE SPACE IN SWITCHBOARD.
10	INDICATED MINIMUM MOUNTING SPACE FOR FUTURE BRANCH DEVICES. INCLUDE MOUNTING HARDWARE.
11	INDICATES FUTURE MULTI-POINT SUB-METERING PANEL FOR METERING OF HOUSE LOADS (HVAC, INTERIOR LIGHTING, EXTERIOR LIGHTING, RECEPTACLES) PER ASHRAE 90.1-2013.
12	INDICATES JUNCTION BOX IN FEEDER TO HVAC UNIT, PANEL, ETC. FOR FUTURE MULTI-POINT SUB-METERING OF HOUSE LOADS. PROVIDE 21mmC BACK TO METERING CABINET FOR INSTRUMENTATION LEADS TO ASSOCIATED SUB-METERING PANEL.
13	PAINT BREAKER FEEDING FIRE ALARM CONTROL PANEL RED TO SUIT THE ELECTRICAL SAFETY CODE.
14	INDICATES 120V 20A-MULTI-POLE LIGHTING DUTY CONTACTOR FOR CONTROL OF EXTERIOR POLE LIGHTS C/W INTERNAL TRANSFORMER, 24V COIL, HANDOFF/AUTO SELECTOR SWITCH AND RED PILOT LIGHT FOR CONTROL BY BAS INPUT.
15	INDICATES DISTRIBUTION PANEL SHOWN SCHEMATICALLY WITHOUT PANEL SCHEDULE TO BE PROVIDED WITH MINIMUM SPARE BRANCH DEVICES AND MOUNTING SPACE AS INDICATED. THIS HOWEVER SHALL NOT ALLEVIATE THE MANUFACTURER FROM PROVIDING MINIMUM OF AN ENTIRE FULL SECTION WITHOUT REDUCTIONS.
16	INDICATES BRANCH CIRCUIT DEVICE TO BE INCLUDED IN BID AS SPARE.



DISTRIBUTION RISER DIAGRAM
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Limited Engineering Licensee
Name: D.G. MCCONKEY
Signature: [signature]
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North Oakville #3
CATHOLIC ELEMENTARY SCHOOL
NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

DISTRIBUTION RISER DIAGRAM

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
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SCALE 1 : 100	PROJECT 16220
DATE 2026.04.17	
DRAWN D.V.	DRAWING E14
CHECKED R.L.	
PRINT DATE	2026-11-04 10:24:24 AM
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PANEL 1R1

MAINS: 225 A **VOLTAGE:** 120/208V **INTERRUPTING CAPACITY:** 14000 A
MOUNTING: SURFACE **NEUTRAL BUS:** 100.00% **ENCLOSURE:** TYPE 2

CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	FIRE ALARM CONTROL PANEL		15 A	1				1	15 A		CLASSROOM 130 AC REC.	2
3	CLASSROOM 131 REC.		15 A	1				1	15 A		CLASSROOM 131 REC.	4
5	CLASSROOM 131 AC REC.		15 A	1				1	20 A		CLASSROOM 131 GF REC.	6
7	CLASSROOM 130 GF REC.		20 A	1				1	15 A		GYM STORAGE REC.	8
9	GYMNASIUM WALL REC.		15 A	1				1	15 A		GYM BASKETBALL NET 1 REC.	10
11	GYM BASKETBALL NET 2 REC.		15 A	1				1	15 A		GYM BASKETBALL SHOTCLOCKS	12
13	STAFF ROOM 133 AC GF REC.		20 A	1				1	15 A		GYMNASIUM POWER DOOR	14
15	STAFF ROOM 133 GF REC.		20 A	1				1	15 A		SENSORY 135/THERAPY 136 REC.	16
17	STAFF ROOM 133 FRIDGE REC.		15 A	1				1	15 A		SENSORY 135/THERAPY 136 REC.	18
19	STAFF ROOM 133 FRIDGE REC.		15 A	1				1	15 A	GFCI	WR 138,139,14,143,144 PLUMBING SENSORS	20
21	STAFF ROOM 133 DISHWASHER		15 A	1				1	20 A		WR 138 GF REC	22
23	STAFF ROOM 133 AC REC.		15 A	1				1	20 A	GFCI	BOY WR 138 HAND DRYER	24
25	STAFF ROOM 133 REC.		15 A	1				1	20 A	GFCI	BOY WR 138 HAND DRYER	26
27	SPEC ED 137 AC REC.		15 A	1				1	20 A	GFCI	GIRLS WR 139 HAND DRYER	28
29	SPEC ED 137 GF REC.		20 A	1				1	20 A	GFCI	GIRLS WR 139 HAND DRYER	30
31	SPEC ED 137 REC.		15 A	1				1	20 A		UNIV. WR 142 GF REC.	32
33	SPEC ED 137 FRIDGE REC.		15 A	1				1	20 A	GFCI	UNIV. WR 142 HAND DRYER	34
35	WR 144 GF REC.		20 A	1				1	20 A		WR 143 GF REC.	36
37	WR 143 HAND DRYER	GFCI	20 A	1				1	20 A	GFCI	WR 144 HAND DRYER	38
39	CHANGE RM PLUMBING SENSORS	GFCI	15 A	1				1	20 A		CHANGE ROOMS T-REC.	40
41	NUTRITION 121 FRIDGE		15 A	1				1	20 A		ELEV. MACH. RM GF REC.	42
43	NUTRITION 121 FRIDGE		15 A	1				1	20 A		ELEV. SHAFT GF REC	44
45	NUTRITION 121 DISHWASHER		15 A	1				1	20 A		STAGE 122 STEPS T-REC.	46
47	NUTRITION 121 GF REC.		20 A	1				1	20 A		STAGE SOUND SYSTEM T-REC.	48
49	NUTRITION 121 GF REC.		20 A	1				1	15 A		STAGE PROJECTOR MOTOR	50
51	LEARNING COMMONS WORKROOM 104 REC.		15 A	1				1	15 A		CART STORAGE 105 REC.	52
53	LEARNING COMMONS103 REC.		15 A	1				1	15 A		LEARNING COMMONS WORKROOM 104 REC.	54
55	LEARNING COMMONS 103 DESK REC.		15 A	1				1	15 A		LEARNING COMMONS103 REC.	56
57	GROUND FLOOR STAIR 1 T-REC.		20 A	1				1	15 A		VEST 101 LEARNING/COMMONS 103 ADO	58
59	AUTO DOOR OPERATOR STAIR A		15 A	1				1	20 A		CORRIDOR 129 T-REC.	60
61	EXTERIOR GF T-REC.		20 A	1				1	20 A		VEST 101/STUDENT FORUM 102 T-REC.	62
63								1	15 A		METER CABINET ELEC. RM 118	64
65	LTG NETWORK MANAGER ELEC. RM 118 REC.		15 A	1				1	15 A		SPEC ED. 137 WASHER	66
67	SPEC ED. 137 DRYER		30 A	2				1	15 A		LEARNING COMMONS CEILING FANS	68
69								1	15 A		ELEVATOR CAB LIGHTING CIRCUIT	70
71												72
						SECTION 2						
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
73	FUTURE SCOREBOARD		15 A	1				2	40 A		KITCHEN STOVE	74
75	STAFF ROOM 133 MICROWAVE		15 A	1								76
77	GYM RECEPTACLE FOR CEILING PROJECTOR		15 A	1				1	15 A	--	SPARE	78
79	FIRE ALARM MONITORING PANEL		15 A	1				1	15 A	--	SPARE	80
81	ELEC. RM 118 REC.		15 A	1				1	15 A	--	SPARE	82
83	TELCOMM BACKBOARD		15 A	1				1	15 A	--	SPARE	84
85	TELCOMM BACKBOARD		15 A	1				1	15 A	--	SPARE	86
87	STAFF ROOM 133 AC GF REC.		15 A	1				1	15 A	--	SPARE	88
89	STAFF ROOM 133 MICROWAVE		15 A	1				1	15 A	--	SPARE	90
91	NUTRITION 121 MICROWAVE		15 A	1				1	15 A	--	SPARE	92
93	NUTRITION 121 MICROWAVE		15 A	1				1	15 A	--	SPARE	94
95	SEMINAR 120 REC.		15 A	1				1	15 A	--	SPARE	96
97	ELEVATOR COMMUNICATIONS DISCONNECT		15 A	1				1	15 A	--	SPARE	98
99	ELEVATOR CONTROLLER CIRCUIT		15 A	1				1	15 A	--	SPARE	100
101	ELEVATOR IN-CAR GFI DISCONNECT		15 A	1				1	15 A	--	SPARE	102
103	FIRE SMOKE DAMPER		15 A	1				1	15 A	--	SPARE	104
105	FIRE SMOKE DAMPER		15 A	1				1	15 A	--	SPARE	106
107	FIRE SMOKE DAMPER		15 A	1				1	15 A	--	SPARE	108
109	FIRE SMOKE DAMPER		15 A	1				1	15 A	--	SPARE	110
111	FIRE SMOKE DAMPER		15 A	1				1	15 A	--	SPARE	112
113	JOCKEY PUMP		15 A	1				1	15 A	--	SPARE	114
115	SPARE	--	15 A	1				1	15 A	--	SPARE	116
117	SPACE	--	--	1				1	--	--	SPACE	118
119	SPACE	--	--	1				1	--	--	SPACE	120
121	SPACE	--	--	1				1	--	--	SPACE	122
123	SPACE	--	--	1				1	--	--	SPACE	124
125	SPACE	--	--	1				1	--	--	SPACE	126
127	SPACE	--	--	1				1	--	--	SPACE	128
129	SPACE	--	--	1				1	--	--	SPACE	130
131	SPACE	--	--	1				1	--	--	SPACE	132
133	SPACE	--	--	1				1	--	--	SPACE	134
135	SPACE	--	--	1				1	--	--	SPACE	136
137	SPACE	--	--	1				1	--	--	SPACE	138
139	SPACE	--	--	1				3	30 A		EXTERNAL SPD	140
141	SPACE	--	--	1								142
143	SPACE	--	--	1								144

NOTES:

PANEL 1R2

MAINS: 225 A **VOLTAGE:** 120/208V **INTERRUPTING CAPACITY:** 14000 A
MOUNTING: SURFACE **NEUTRAL BUS:** 100.00% **ENCLOSURE:** TYPE 2

CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	OFFICE 106 AC REC.		15 A	1				1	15 A		OFFICE 108 AC REC.	2
3	OFFICE 106 REC.		15 A	1				1	15 A		OFFICE 108 REC.	4
5	OFFICE 106/HEALTH 112 POWER DOOR		15 A	1				1	15 A		OFFICE 109 AC REC.	6
7	STORAGE 114 REC.		15 A	1				1	15 A		OFFICE 109 REC.	8
9	OFFICE 110 AC REC.		15 A	1				1	15 A		WR 113 GF REC/ PLUMBING SENSOR	10
11	OFFICE 110 REC.		15 A	1				1	15 A		HEALTH 112 REC.	12
13	WORKROOM 107 REC		15 A	1				1	15 A		HEALTH 112 GF REC.	14
15	WORKROOM 107 T-REC.		20 A	1				1	15 A		SEMINAR 115 REC.	16
17	CUSTODIAN/RECEIVING 117 REC.		15 A	1				1	15 A		SEMINAR 115 REC.	18
19	PRESCHOOL WR PLUMBING SENSORS	GFCI	15 A	1				1	15 A		OFFICE 116 REC.	20
21	PRESCHOOL 314 REC.		15 A	1				1	15 A		OFFICE 116 AC REC.	22
23	PRESCHOOL 314 AC REC		15 A	1				1	15 A		PRESCHOOL 317 REC.	24
25	PRESCHOOL 314 GF REC.		20 A	1				1	15 A		PRESCHOOL 317 AC REC.	26
27	PRESCHOOL 314 GF REC.		15 A	1				1	20 A		PRESCHOOL 317 GF REC.	28
29	PRESCHOOL WR 315 GF REC.		20 A	1				1	20 A		PRESCHOOL 317 GF REC.	30
31	PRESCHOOL WR 318 GF REC.		20 A	1				1	20 A		KITCHEN 312 GF REC.	32
33	VESTIBULE 316 T-REC.		20 A	1				1	20 A		KITCHEN 312 GF REC.	34
35	STAFF ROOM 313 GF REC.		20 A	1				1	30 A		KITCHEN 312 DISHWASHER	36
37	STAFF ROOM 313 REC.		15 A	1				1	15 A		KITCHEN 312 FRIDGE REC.	38
39	STAFF ROOM 313 GF REC.		20 A	1				1	15 A		KITCHEN 312 FRIDGE REC.	40
41	STAFF ROOM 313 FRIDGE REC.		15 A	1				1	15 A		STAFF RM 313 MICROWAVE	42
43	BF WR 311 POWER DOOR/PLUMBING SENSORS	GFCI	15 A	1				1	15 A		OSR 111 REC.	44
45	BF WR 311 HAND DRYER	GFCI	20 A	1				1	20 A		LAUNDRY 310 GF REC.	46
47	BF WR 311 GF REC.		20 A	1				1	15 A		LAUNDRY 310 WASHER REC.	48
49	CUSTODIAN 309 REC.		15 A	1				2	30 A		LAUNDRY 310 DRYER REC.	50
51	OFFICE 308 REC.		15 A	1								52
53	OFFICE 308 AC REC.		15 A	1				1	15 A		VESTIBULE 301 POWER DOOR	54
55	STORAGE 307 REC.		15 A	1				1	15 A		WORKROOM 145 AC REC.	56
57	CORRIDOR 302/VESITBULE 301 T-REC		20 A	1				1	15 A		WORKROOM 145 AC REC.	58
59	CORRIDOR 140 T-REC.		20 A	1				1	15 A		WORKROOM 145 REC.	60
61	1FLR STAIR B POWER DOOR		15 A	1				1	15 A		WORKROOM 145 REC.	62
63	1FLR STAIR B T-REC.		20 A	1				1	15 A		UNIV. WR. 142 POWER DOOR	64
65	LAN RM 141 T-REC.		20 A	1				1	15 A		PUBLIC ACCESS T-REC.	66
67	LAN RM 141 T-REC.		20 A	1				1	20 A		EXTERIOR GF T-REC.	68
69	LAN RM 141 T-REC.		20 A	1				1	15 A		SPRINKLER ROOM REC.	70
71	LAN RM 141 T-REC.		20 A	1				1	15 A		KITCHEN 312 MICROWAVE	72
						SECTION 2						
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
73	AUTO DOOR OPERATOR CORRIDOR 152		15 A	1				1	15 A		AUTO DOOR OPERATOR VEST. 316	74
75	AUTO DOOR OPERATOR VEST. 321		15 A	1				1	15 A		GYM SOUND SYSTEM	76
77	LAN RM 141 REC.		15 A	1				2	30 A		LAUNDRY 310 DRYER REC	78
79	LAUNDRY 310 WASHER REC.		15 A	1								80
81	LAN RM 141 T-REC.		20 A	1				1	15 A		KITCHEN 312 MICROWAVE	82
83	STUDENT FORUM / STAGE DOOR HOLD		15 A	1				1	20 A	GFCI	WR 113 HAND DRYER	84
85	FIRE ALARM CONTROL PANEL	--	15 A	1				1	15 A		LAN RM 141 REC.	86
87	SPARE	--	15 A	1				1	15 A		FIRE SMOKE DAMPER	88
89	SPARE	--	15 A	1				1	15 A		FIRE SMOKE DAMPER	90
91	SPARE	--	15 A	1				1	15 A	--	SPARE	92
93	SPARE	--	15 A	1				1	15 A	--	SPARE	94
95	SPARE	--	15 A	1				1	15 A	--	SPARE	96
97	SPARE	--	15 A	1				1	15 A	--	SPARE	98
99	SPARE	--	15 A	1				1	15 A	--	SPARE	100
101	SPARE	--	15 A	1				1	15 A	--	SPARE	102
103	SPARE	--	15 A	1				1	15 A	--	SPARE	104
105	SPARE	--	15 A	1				1	15 A	--	SPARE	106
107	SPARE	--	15 A	1				1	15 A	--	SPARE	108
109	SPARE	--	15 A	1				1	15 A	--	SPARE	110
111	SPARE	--	15 A	1				1	15 A	--	SPARE	112
113	SPACE	--	--	1				1	--	--	SPACE	114
115	SPACE	--	--	1				1	--	--	SPACE	116
117	SPACE	--	--	1				1	--	--	SPACE	118
119	SPACE	--	--	1				1	--	--	SPACE	120
121	SPACE	--	--	1				1	--	--	SPACE	122
123	SPACE	--	--	1				1	--	--	SPACE	124
125	SPACE	--	--	1				1	--	--	SPACE	126
127	SPACE	--	--	1				1	--	--	SPACE	128
129	SPACE	--	--	1				1	--	--	SPACE	130
131	SPACE	--	--	1				1	--	--	SPACE	132
133	SPACE	--	--	1				1	--	--	SPACE	134
135	SPACE	--	--	1				1	--	--	SPACE	136
137	SPACE	--	--	1				1	--	--	SPACE	138
139	SPACE	--	--	1				3	30 A		EXTERNAL SPD	140
141	SPACE	--	--	1								142
143	SPACE	--	--	1								144

NOTES:

PANEL 2R2

MAINS: 225 A **VOLTAGE:** 120/208V **INTERRUPTING CAPACITY:** 10000 A
MOUNTING: SURFACE **NEUTRAL BUS:** 100.00% **ENCLOSURE:** TYPE 2

CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	ACAD STORAGE 228 REC.		15 A	1				1	15 A		WORKROOM 229 REC.	2
3	WORKROOM 229 REC.		15 A	1				1	15 A		WORKROOM 229 REC.	4
5	WORKROOM 229 REC.		15 A	1				1	15 A		CLASSROOM 230 AC REC.	6
7	CLASSROOM 230/231 REC.		15 A	1				1	20 A		CLASSROOM 230 GF REC.	8
9	CLASSROOM 231 REC.		15 A	1				1	15 A		CLASSROOM 231 AC REC.	10
11	FIRE SMOKE DAMPER		15 A	1				1	15 A		CLASSROOM 232/233 REC.	12
13	CLASSROOM 232 AC REC.		15 A	1				1	20 A		CLASSROOM 231/232 GF REC.	14
15	CLASSROOM 233 REC.		15 A	1				1	20 A		CLASSROOM 233 AC GF REC.	16
17	CLASSROOM 233 AC REC.		15 A	1				1	15 A		SEMINAR 234 REC.	18
19	CLASSROOM 235 AC REC.		15 A	1				1	20 A		CLASSROOM 235 GF REC.	20
21	CLASSROOM 235/236 REC.		15 A	1				1	15 A		CLASSROOM 236 REC.	22
23	CLASSROOM 236/237 AC GF REC.		20 A	1				1	15 A		CLASSROOM 236 AC REC.	24
25	CLASSROOM 220 REC.		15 A	1				1	20 A		CLASS ROOM 220 GF REC.	26
27	CLASSROOM 220 AC REC.		15 A	1				1	15 A		CLASSROOM 221 REC.	28
29	CLASSROOM 221 GF REC.		20 A	1				1	15 A		CLASSROOM 221 AC REC.	30
31	SEMINAR 222 REC.		15 A	1				1	15 A		CLASSROOM 223 REC.	32
33	CLASSROOM 223 GF REC.		20 A	1				1	15 A		CLASSROOM 223 AC REC.	34
35	CLASSROOM 224 REC.		15 A	1								36
37	CLASSROOM 224 AC REC.		15 A	1				1	15 A		CLASSROOM 225 REC.	38
39	CLASSROOM 224/225 GF REC.		20 A	1				1	15 A		CLASSROOM 225 AC REC.	40
41	CLASSROOM 226 REC.		15 A	1				1	20 A		CLASSROOM 226 GF REC.	42
43	CLASSROOM 226 AC REC.		15 A	1				1	20 A		2FL CORRIDOR EAST T-REC.	44
45	2FLR STAIR B T-REC.		20 A	1				2	15 A		I.T. ROOM 215 BASEBOARD HEATING	46
47	SPARE	--	15 A	1								48
49	SPARE	--	15 A	1				1	15 A	--	SPARE	50
51	SPARE	--	15 A	1				1	15 A	--	SPARE	52
53	SPARE	--	15 A	1				1	15 A	--	SPARE	54
55	SPARE	--	15 A	1				1	15 A	--	SPARE	56
57	SPARE	--	15 A	1				1	15 A	--	SPARE	58
59	SPARE	--	15 A	1				1	15 A	--	SPARE	60
61	SPARE	--	15 A	1				1	15 A	--	SPARE	62
63	SPARE	--	15 A	1				1	15 A	--	SPARE	64
65	SPARE	--	15 A	1				1	15 A	--	SPARE	66
67	SPARE	--	15 A	1				1	15 A	--	SPARE	68
69	SPARE	--	15 A	1				1	15 A	--	SPARE	70
71	SPARE	--	15 A	1				1	15 A	--	SPARE	72
73	SPARE	--	15 A	1				1	15 A	--	SPARE	74
75	SPARE	--	15 A	1				1	15 A	--	SPARE	76
77	SPARE	--	15 A	1				1	15 A	--	SPARE	78
79	SPARE	--	15 A	1				3	30 A		EXTERNAL SPD	80
81	SPARE	--	15 A	1								82
83	SPARE	--	15 A	1								84

NOTES:

PANEL 2R1

MAINS: 225 A **VOLTAGE:** 120/208V **INTERRUPTING CAPACITY:** 10000 A
MOUNTING: SURFACE **NEUTRAL BUS:** 100.00% **ENCLOSURE:** TYPE 2

CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	CLASSROOM 208 REC.		15 A	1				1	15 A		CLASSROOM 207 REC.	2
3								1	15 A		CLASSROOM 207 AC REC.	4
5	CLASSROOM 208 GF REC.		20 A	1				1	15 A		CLASSROOM 207 GF REC.	6
7	CLASSROOM 210 REC.		15 A	1				1	20 A		BOYS WR 213 T-REC.	8
9	CLASSROOM 210/211 GF REC.		20 A	1				1	20 A	GFCI	BOYS WR 213 HAND DRYER	10
11	CLASSROOM 210 AC REC.		15 A	1				1	20 A	GFCI	BOYS WR 213 HAND DRYER	12
13	CLASSROOM 211/213 REC.		15 A	1				1	20 A	GFCI	GIRLS WR 214 HAND DRYER	14
15	CLASSROOM 211 AC REC.		15 A	1				1	20 A	GFCI	GIRLS WR 214 HAND DRYER	16
17	FIRE SMOKE DAMPER		15 A	1				1	15 A	GFCI	WR 213/ WR 214 PLUMBING SENSORS	18
19	CLASSROOM 212 REC.		15 A	1				1	20 A		BF WR 217 GF REC.	20
21	CLASSROOM 212 AC REC.		15 A	1				1	20 A	GFCI	BF WR 217 HAND DRYER	22
23	CLASSROOM 212 GF REC.		20 A	1				1	15 A		WR 218 GF REC.	24
25	CUSTODIAN 216 REC.		15 A	1				1	20 A	GFCI	WR 218 HAND DRYER	26
27	GYMNASIUM SHADE MOTORS		15 A	1				1	15 A	GFCI	WR 217,218 PLUMBING SENSOR/POWER DOOR	28
29	2FLR STAIR A T-REC.		15 A	1				1	20 A		CORRIDOR 203 T-REC.	30
31	SEMINAR 204 REC.		15 A	1				1	20 A		COLABORATION 202 T-REC.	32
33	MUSIC RM 242 REC.		15 A	1				1	15 A		ART RM 238/239 REC.	34
35	MUSIC RM 242 GF REC.		20 A	1				1	20 A		ART RM 239 GF REC.	36
37	MUSIC RM 242 AC REC.		15 A	1				1	15 A		ART RM 239 AC REC.	38
39	MUSIC STORAGE 241 REC.		15 A	1				1	15 A		ART RM STORAGE 240 REC.	40
41	SCIENCE 238 REC.		15 A	1				1	15 A		CLASSROOM 237 REC.	42
43	SCIENCE 238 AC REC.		15 A	1				1	15 A		CLASSROOM 237 AC REC.	44
45	SCIENCE 238 INSTRUCTORS DESK AC GF REC.		20 A	1				1	15 A		FIRE SMOKE DAMPER	46
47	SCIENCE 238 AC GF REC.		20 A	1				1	15 A		MECH ROOM 206 REC.	48
49	SCIENCE 238 GF REC.		20 A	1				1	20 A		IT ROOM 215 T-REC.	50
51	IT ROOM 215 T-REC.		20 A	1				1	20 A		IT ROOM 215 T-REC.	52
53	IT ROOM 215 T-REC.		20 A	1				1	20 A		IT ROOM 215 T-REC.	54
55	IT ROOM 215 T-REC.		20 A	1				1	15 A		GYM FANS	56
57	IT ROOM 215 REC.		15 A	1				1	15 A		GYM DIVIDER CURTAIN	58
59	GYM FANS		15 A	1				1	15 A		MECH ROOM 206 SMOKE DUCT DETECTOR	60
						SECTION 2						
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
61	FIRE SMOKE DAMPER		15 A	1				1	15 A		FIRE SMOKE DAMPER	62
63	FIRE SMOKE DAMPER		15 A	1				1	15 A		GYMNASIUM SHADE MOTORS	64
65	GYMNASIUM SHADE MOTORS		20 A	1				1	15 A		GYM CEILING PROJECTOR	66
67	ROOF MAINTENANCE REC.		15 A	1				1	15 A		STORAGE 244 REC.	68
69	ROOF MAINTENANCE REC.		20 A	1				1	20 A		ROOF MAINTENANCE REC.	70
71	ROOF MAINTENANCE REC.		20 A	1				1	20 A		MECH MEZZANINE 243 REC	72
73	CLASSROOM 208 AC REC.		15 A	1				1	20 A		ROOF MAINTENANCE REC.	74
75	ROOF MAINTENANCE REC.		20 A	1				1	15 A	--	SPARE	76
77	SPARE	--	15 A	1				1	15 A	--	SPARE	78
79	SPARE	--	15 A	1				1	15 A	--	SPARE	80
81	SPARE	--	15 A	1				1	15 A	--	SPARE	82
83	SPARE	--	15 A	1				1	15 A	--	SPARE	84
85	SPARE	--	15 A	1				1	15 A	--	SPARE	86
87	SPARE	--	15 A	1				1	15 A	--	SPARE	88
89	SPARE	--	15 A	1				1	15 A	--	SPARE	90
91	SPARE	--	15 A	1				1	15 A	--	SPARE	92
93	SPARE	--	15 A	1				1	15 A	--	SPARE	94
95	SPARE	--	15 A	1				1	15 A	--	SPARE	96
97	SPARE	--	15 A	1				1	15 A	--	SPARE	98
99	SPARE	--	15 A	1				1	15 A	--	SPARE	100
101	SPARE	--	15 A	1				1	15 A	--	SPARE	102
103	SPARE	--	15 A	1				1	15 A	--	SPARE	104
105	SPARE	--	15 A	1				1	15 A	--	SPARE	106
107	SPARE	--	15 A	1				1	15 A	--	SPARE	108
109	SPARE	--	15 A	1				1	15 A	--	SPARE	110
111	SPARE	--	15 A	1				1	15 A	--	SPARE	112
113	SPARE	--	15 A	1				1	15 A	--	SPARE	114
115	SPARE	--	15 A	1				3	30 A		EXTERNAL SPD	116
117	SPARE	--	15 A	1								118
119	SPARE	--	15 A	1								120

NOTES:

BRANCH CIRCUIT VOLTAGE DROP NOTES

REFERENCE MAXIMUM BRANCH CIRCUIT LENGTHS FOR TYPICAL CONDUCTOR SIZES PER OESC 2024 RULE 8-102 BASED ON MAXIMUM CONNECTED LOAD ON 80% RATED BRANCH CIRCUITS, 75°C RATING, MAXIMUM 3% VOLTAGE DROP.

CONDUCTOR	BRANCH CIRCUIT BREAKER	RECOMMEND MAXIMUM CIRCUIT LENGTH
#12 AWG CU	15A-1P, 120V	23.5m / 77FT
#10 AWG CU	15A-1P, 120V	37.2m / 122FT
#8 AWG CU	15A-1P, 120V	59.1m / 193FT
#12 AWG CU	20A-1P, 120V	17.6m / 57FT
#10 AWG CU	20A-1P, 120V	27.9m / 91FT
#8 AWG CU	20A-1P, 120V	44.3m / 145FT
#12 AWG CU	15A-1P, 347V	68.0m / 223FT
#10 AWG CU	15A-1P, 347V	107m / 353FT
#8 AWG CU	15A-1P, 347V	170m / 560FT

COORDINATE BRANCH CIRCUIT ROUTES ON SITE TO MINIMIZE CIRCUIT LENGTHS. INCLUDE IN BID ALL REQUIRED BRANCH CIRCUIT CONDUCTOR AND CONDUIT UPSIZING TO SUIT FINAL INSTALLED BRANCH CIRCUIT LENGTH IN ORDER NOT TO EXCEED MAXIMUM CODE ALLOWABLE VOLTAGE DROP. UNLESS OTHERWISE NOTED, ANY BRANCH CIRCUIT LENGTHS WHICH EXCEED THOSE LISTED SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT IN WRITING PRIOR TO INSTALLATION. INCLUDE APPROVED CONDUCTOR REDUCERS TO SUIT BRANCH BREAKER AND WIRING DEVICES MAXIMUM CONDUCTOR LUG SIZES.

PANEL SCHEDULE NOTES

A. AUTOMATICALLY CONTROLLED RECEPTACLES (AC) FED FROM ANY PANEL SHALL BE GREEN IN COLOUR AND PERMANENTLY MARKED PER SPECIFICATIONS.
B. ALL BREAKERS NOTED AS GFCI SHALL BE CLASS A 5mA (PERSONAL PROTECTION) GROUND FAULT TRIP LEVEL BREAKERS.
C. ALL BREAKERS NOTED AS GFPE SHALL BE 33mA (PROTECTION OF EQUIPMENT) GROUND FAULT TRIP LEVEL BREAKERS.
D. ALL BREAKERS NOTED AS LSI OR LSIG SHALL BE CONFIGURED PER FINAL SHORT CIRCUIT COORDINATION STUDY.
E. ALL BREAKERS FEEDING HAND DRYERS, AUTOMATIC PLUMBING FIXTURES SHALL BE GFCI TYPE REGARDLESS OF MARKING ON PANEL SCHEDULES. ALL BREAKERS FEEDING ELECTRIC HEAT TRACING SHALL BE GFPE TYPE.
F. ALL BREAKERS NOTED AS SNT SHALL SHUNT TYPE CIRCUIT BREAKERS. PROVIDE ADDITIONAL REQUIRED BRANCH CIRCUIT SHUNT POLE AS PER INDICATED ON PANEL SCHEDULE.
G. ALL BREAKERS FOR ANY SUITE PANEL (EXCEPT FOR GFI RECEPTACLES, KITCHEN FRIDGE AND COUNTER RECEPTACLES) ARE TO BE AFCI TYPE BREAKERS AS REQUIRED BY OESC. SPARE BREAKERS ARE TO BE AFCI AS WELL.
H. SUITE PANELS SHALL BE PROVIDED WITH THE MINUMUM NUMBER OF ADDITIONAL BRANCH SPACES FOR FUTURE OVERCURRENT DEVICES TO SUIT THE REQUIREMENTS OF OESC AS FOLLOWS:
- PANELS FOR SINGLE DWELLING UNITS SHALL HAVE AT LEAST 4 ADDITIONAL SPACES, INCLUDING PROVISION FOR A 2 POLE DEVICE.
- PANELS FOR DWELLING UNITS IN AN APARTMENT OF SIMILAR SHALL HAVE AT LEAST 2 ADDITIONAL SPACES.
- PANEL CIRCUIT SIZE PER SCHEDULE SHALL BE EXPANDED AS NECESSARY TO THE NEXT STANDARD SIZE UP TO ACCOMMODATE THESE ADDITIONAL SPACES.

J. PANEL FAULT BRACINGS SHALL PER SPECIFICATIONS AND IN ALL CASES EXCEED THE CALCULATED FAULT VALUES LISTED ON THE DISTRIBUTION RISER DIAGRAM.

PANEL 1M1

MAINS: 225 A **VOLTAGE:** 120/208V **INTERRUPTING CAPACITY:** 10000 A
MOUNTING: SURFACE **NEUTRAL BUS:** 100.00% **ENCLOSURE:** TYPE 2

CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	ELEC. ROOM 118 EF-3		15 A	1				1	15 A		VESITBULE 101 HEATER H-5	2
3	VESITBULE 316 HEATER H-6		15 A	1				1	15 A		VESITBULE 321 HEATER H-5	4
5	VEST. 301/304 HEATER H-5/6		15 A	1				1	15 A		VESITBULE 304 HEATER H-5	6
7	VESTIBULE 301 HEATER H-5		15 A	1				1	15 A		STAIR B 150 HEATER H-5	8
9	STAIR A 132 HEATER H-5		15 A	1				1	15 A		CUST. 309 WATER HEATER WH-2	10
11	RECIRC PUMP RP-2		15 A	1				1	15 A		STORAGE 105 EXHAUST FAN EF-1	12
13	STORAGE 114/WR 113 EXHAUST FAN EF-1		15 A	1				1	15 A		CUSTODIAN 117 EXHAUST FAN EF-1	14
15	HEATER H-5		15 A	1				1	15 A		TODDLER 323 VAV	16
17	KG ROOMS 146/147 EXHAUST FAN		15 A	1				1	15 A		LAUNDRY 310 DRYER BOOSTER FAN EF-5	18
19	KITCHEN 312 EXHAUST FAN EF-2		15 A	1				1	15 A		CHILDCARE STORAGE 325 EF-2	20
21	STORAGE 307 EXHAUST FAN EF-1		15 A	1				1	15 A		KINDERGARTEN 148/149 EXHAUST FAN EF-1	22
23	OFFICE 108-110 VAV		15 A	1				1	15 A		STAFF ROOM 137 EF-5	24
25	ROOM 106/111/112 VAV		15 A	1				1	15 A		ROOM 305 VAV	26
27	CUSTODIAN 309 BAS PANEL		15 A	1				2	15 A		ROOM 149 FC-E	28
29	CUST/MECH 309 TRAP PRIMER		15 A	1								30
31	OFFICE 308 VAV		15 A	1				1	15 A		INFANT 303 VAV	32
33	ROOM 148 FC-E		15 A	2				1	15 A		KG ROOMS 151/153 EF-1	34
35								2	15 A		CLASSROOM 130 FC-E	36
37	LAN 141 EXHAUST FAN EF-4		15 A	1								38
39	STORAGE ROOMS 154/155 EF-1		15 A	1				1	15 A		CUST. 309 EF-1	40
41	STORAGE 154 - TRAP PRIMER		15 A	1				1	15 A		VEST. 321 HEATER H-6	42
43	HEAT TRACING OUTSIDE CORRIDOR 152		15 A	1				2	15 A		CLASSROOM 131 FC-E	44
45	HEAT TRACING OUTSIDE VEST 301		15 A	1								46
47	GYM STORAGE 128A - TRAP PRIMER		15 A	1				1	15 A		CUSTODIAN 117 TRAP PRIMER	48
49	LAUNDRY 310 DRYER BOOSTER FAN EF-5		15 A	1				1	15 A		CUSTODIAN 117 BAS PANEL	50
51	ROOM 107/115/116/117 VAV		15 A	1				1	15 A		STAIR A & C DOOR HOLD	52
53	MECH ROOM CO		15 A	1				2	15 A		ROOM 146 FC-E	54
55	ROOM 147 FC-E		15 A	2								56
57								2	15 A		ROOM 153 FC-E	58
59	SPARE	--	15 A	1								60
						SECTION 2						
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
61	STAFF ROOM 133 FC-E		15 A	2				2	15 A		SPEC ED 137 FC-B/E	62
63												64
65	CORRIDOR 129 FC-A		15 A	2				2	15 A		CORRIDOR 129 FC-C	66
67												68
69	CORRIDOR 129 FC-E		15 A	2				1	15 A		ROOM 312/313 VAV	70
71								1	15 A		CORRIDOR 302 VAV	72
73	PRESCHOOL 314 VAV		15 A	1				1	15 A		PRESCHOOL 317 VAV	74
75	TODDLER 319 EF-5 / VAV		15 A	1				2	15 A		STUDENT FORUM 102 BIG ASS FAN BF-1	76
77	WORKROOM 145 FC-C		15 A	2								78
79								1	15 A		CORRIDOR 302 VAV	80
81	ROOM 151 FC-E		15 A	2								82
83								1	15 A	--	SPARE	84
85	SPARE	--	15 A	1				1	15 A	--	SPARE	86
87	SPARE	--	15 A	1				1	15 A	--	SPARE	88
89	SPARE	--	15 A	1				1	15 A	--	SPARE	90
91	SPARE	--	15 A	1				1	15 A	--	SPARE	92
93	SPARE	--	15 A	1				1	15 A	--	SPARE	94
95	SPARE	--	15 A	1				1	15 A	--	SPARE	96
97	SPARE	--	15 A	1				1	15 A	--	SPARE	98
99	SPARE	--	15 A	1				1	15 A	--	SPARE	100
101	SPARE	--	15 A	1				1	15 A	--	SPARE	102
103	SPARE	--	15 A	1				1	15 A	--	SPARE	104
105	SPARE	--	15 A	1				1	15 A	--	SPARE	106
107	SPARE	--	15 A	1				1	15 A	--	SPARE	108
109	SPARE	--	15 A	1				1	15 A	--	SPARE	110
111	SPARE	--	15 A	1				1	15 A	--	SPARE	112
113	SPARE	--	15 A	1				1	15 A	--	SPARE	114
115	SPARE	--	15 A	1				1	15 A	--	SPARE	116
117	SPARE	--	15 A	1				1	15 A	--	SPARE	118
119	SPARE	--	15 A	1				1	15 A	--	SPARE	120

NOTES:

PANEL 1R3

MAINS: 225 A **VOLTAGE:** 120/208V **INTERRUPTING CAPACITY:** 14000 A
MOUNTING: SURFACE **NEUTRAL BUS:** 100.00% **ENCLOSURE:** TYPE 2

CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	INFANT 303 AC REC.		15 A	1								2
3	INFANT 303 GF REC.		20 A	1				1	15 A	GFCI	INFANT WR 306 GF REC./PLUMBING SENSOR	4
5	INFANT 303 REC.		15 A	1				1	15 A		VESITBULE 304 T-REC.	6
7	STORAGE 154,155 REC.		15 A	1				1	15 A		KINDERGARTEN 151 GF REC.	8
9	KINDERGARTEN 151 AC GF REC.		20 A	1				1	15 A		KINDERGARTEN 151 AC REC.	10
11	KINDERGARTEN 151 REC.		15 A	1				1	15 A	GFCI	KINDERGARTEN 151,153 PLUMBING SENSORS	12
13	KINDERGARTEN 153 AC REC.		15 A	1				1	15 A		KINDERGARTEN 153 REC.	14
15	KINDERGARTEN 153 GF REC.		20 A	1				1	15 A		KINDERGARTEN 153 AC GF REC.	16
17	KINDERGARTEN 149 REC.		15 A	1				1	15 A		KINDERGARTEN 149 AC REC.	18
19	KINDERGARTEN 149 GF REC.		20 A	1				1	20 A		KINDERGARTEN 149 AC GF REC.	20
21	KINDERGARTEN 146-149 PLUMBING SENSORS	GFCI	15 A	1				1	15 A		KINDERGARTEN 148 GF REC.	22
23	KINDERGARTEN 148 GF REC.		15 A	1				1	15 A		KINDERGARTEN 148 AC REC.	24
25	KINDERGARTEN 148 REC.		15 A	1				1	15 A		KINDERGARTEN 147 REC.	26
27	KINDERGARTEN 147 AC REC.		15 A	1				1	20 A		KINDERGARTEN 147 GF REC.	28
29	KINDERGARTEN 147 AC GF REC.		20 A	1				1	20 A		KINDERGARTEN AC GF 146 REC.	30
31	KINDERGARTEN 146 GF REC.		20 A	1				1	15 A		KINDERGARTEN 146 AC REC.	32
33	KINDERGARTEN 146 REC.		15 A	1				1	15 A		TODDLER 323 AC REC.	34
35	TODDLER 323 GF REC.		20 A	1				1	20 A		TODDLER 323 GF REC.	36
37	TODDLER 323 REC.		15 A	1				1	15 A		TODDLER 319 REC.	38
39	TODDLER 319 GF REC.		20 A	1				1	20 A		TODDLER 319 GF REC.	40
41	TODDLER 319 AC REC.		15 A	1				1	15 A	GFCI	TODDLER WR PLUMBING SENSORS	42
43	TODDLER WR 320 GF REC.		20 A	1				1	15 A		TODDLER WR 324 GF REC.	44
45	STORAGE 322 REC.		15 A	1				1	20 A		VESTIBULE 321 T-REC.	46
47	SLEEPING AREA 305 REC.		15 A	1				1	20 A		INFANT 303 GF REC.	48
49	INFANT 303 MICROWAVE		15 A	1				1	15 A	--	SPARE	50
51	SPARE	--	15 A	1				1	15 A	--	SPARE	52
53	SPARE	--	15 A	1				1	15 A	--	SPARE	54
55	SPARE	--	15 A	1				1	15 A	--	SPARE	56
57	SPARE	--	15 A	1				1	15 A	--	SPARE	58
59	SPARE	--	15 A	1				1	15 A	--	SPARE	60
61	SPARE	--	15 A	1				1	15 A	--	SPARE	62
63	SPARE	--	15 A	1				1	15 A	--	SPARE	64
65	SPARE	--	15 A	1				1	15 A	--	SPARE	66
67	SPARE	--	15 A	1				3	30 A		EXTERNAL SPD	68
69	SPARE	--	15 A	1								70
71	SPARE	--	15 A	1								72

NOTES:

PANEL 2M1

MAINS: 225 A **VOLTAGE:** 120/208V **INTERRUPTING CAPACITY:** 10000 A
MOUNTING: SURFACE **NEUTRAL BUS:** 100.00% **ENCLOSURE:** TYPE 2

CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	STORAGE 240/241 EXHAUST FAN EF-1		15 A	1				1	15 A		MECH RM BAS PANEL	2
3	LAN 215 EXHAUST FAN EF-4		15 A	1				1	15 A		ROOF EXHAUST FAN EF-6	4
5	STORAGE 228 EXHAUST FAN EF-1		15 A	1				1	15 A		ELEV. MACH RM EXHAUST FAN EF-1	6
7	BOILER B-2		15 A	1				1	20 A		BOILER B-1	8
9	BAS PANEL		15 A	1				2	15 A		CLASSROOM 207/208 FC-E	10
11	CORRIDOR 203 FC-D		15 A	2								12
13								1	15 A		TRAP PRIMER	14
15	CORRIDOR 203 FC-A		15 A	2				2	15 A		SEMINAR 222 FC-C	16
17												18
19	CLASSROOM 223 FC-E		15 A	2				2	15 A		MUSIC 242 FC-E	20
21												22
23	SCIENCE 238 FC-E		15 A	2				2	15 A		CLASSROOM 232 FC-E	24
25												26
27	CLASSROOM 233 FC-E		15 A	2				2	15 A		CLASSROOM 230 FC-E	28
29												30
31	CLASSROOMS 210/211 FC-E		15 A	2				2	25 A		CONDENSING UNITS CU-1	32
33												34
35	CUSTODIAN 216 BAS PANEL		15 A	1				2	15 A		CLASSROOM 212 FC-E	36
37	ROOF EF-7		15 A	1								38
39	MECH. ROOM SIDEWALL EXHAUST FAN SF-1		15 A	1				1	15 A		RP-1	40
41	MECH. RM WATER HEATER WH-1		15 A	1				1	15 A		EF-9	42
43	MECH RM. EXHAUST FAN EF-8		15 A	1				1	15 A		MECH. RM UNIT HEATER H-7	44
45	CO DETECTORS		15 A	1				1	15 A		MECH RM BAS PANEL	46
47	CUSTODIAN 216 FAN POWER MIXED BOX		15 A	1				1	15 A		CUSTODIAN 216 BAS PANEL	48
49	STAIR B DOORHOLD		15 A	1				2	20 A		CONDENSING UNIT CU-2	50
51	MECH. ROOM 206 RECIRC. PUMP RP-1		15 A	1								52
53	CLASSROOM 231 FC-E		15 A	2				2	15 A		WORKROOM 229 FC-E	54
55												56
57	CLASSROOM 235 FC-E		15 A	2				2	15 A		SEMINAR 234 FC-E	58
59												60
						SECTION 2						
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
61	CHILLER HEAT TRACE	GFPE	15 A	1				2	15 A		AC-3/CU-3	62
63	GLYCOL PUMP		15 A	1								64
65	GLYCOL PUMP		15 A	1				2	15 A		CLASSROOM 221 FC-E	66
67	EF-9		15 A	3								68
69								2	15 A		CLASSROOM 225 FC-E	70
71												72
73	CLASSROOM 224 FC-E		15 A	2				2	15 A		CLASSROOM 226 FC-E	74
75												76
77	CORRIDOR 219 FC-A		15 A	2				2	15 A		CLASSROOM 236 FC-E	78
79												80
81	CLASSROOM 237 FC-E		15 A	2				1	15 A	--	SPARE	82
83								1	15 A	--	SPARE	84
85	SPARE	--	15 A	1				1	15 A	--	SPARE	86
87	SPARE	--	15 A	1				1	15 A	--	SPARE	88
89	SPARE	--	15 A	1				1	15 A	--	SPARE	90
91	SPARE	--	15 A	1				1	15 A	--	SPARE	92
93	SPARE	--	15 A	1				1	15 A	--	SPARE	94
95	SPARE	--	15 A	1				1	15 A	--	SPARE	96
97	SPARE	--	15 A	1				1	15 A	--	SPARE	98
99	SPARE	--	15 A	1				1	15 A	--	SPARE	100
101	SPARE	--	15 A	1				1	15 A	--	SPARE	102
103	SPARE	--	15 A	1				1	15 A	--	SPARE	104
105	SPARE	--	15 A	1				1	15 A	--	SPARE	106
107	SPARE	--	15 A	1				1	15 A	--	SPARE	108
109	SPARE	--	15 A	1				1	15 A	--	SPARE	110
111	SPARE	--	15 A	1				1	15 A	--	SPARE	112
113	SPARE	--	15 A	1				1	15 A	--	SPARE	114
115	SPARE	--	15 A	1				1	15 A	--	SPARE	116
117	SPARE	--	15 A	1				1	15 A	--	SPARE	118
119	SPARE	--	15 A	1				1	15 A	--	SPARE	120

NOTES:

PANEL 1L

MAINS: 225 A **VOLTAGE:** 120/208V **INTERRUPTING...** 10000A
MOUNTING: SURFACE **NEUTRAL BUS:** 100.00% **ENCLOSURE:** TYPE 2

CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	OFFICE LTS		20 A	1				1	20 A		SEMINAR/WORKRM/WR/OSR LTS	2
3	RECIEVING/ELEC RM/CHILDCARE STORAGE LTS		20 A	1				1	20 A		PRE-SCHOOL/WR LTS	4
5	TODDLER/WR LTS		20 A	1				1	20 A		INFANT/SLEEPING/WR LTS	6
7	KINDERGARTEN 146,147 LTS		20 A	1				1	20 A		BOYS&GIRLS WR/UNV WR/WORKROOM/LAN LTS	8
9	KINDERGARTEN 148,149 LTS		20 A	1				1	20 A		SPEC. ED./STAFF ROOM LTS	10
11	KINDERGARTEN 151,153 LTS		20 A	1				1	20 A		CLASS RM 130,131 LTS	12
13	GYM STORAGE/ CHANGE ROOMS LTS		20 A	1				1	20 A		CORRIDOR SOUTH/SEMINAR 120/NUTRITION LTS	14
15	CORRIDOR EAST LTS		20 A	1				1	20 A		CORRIDOR 302/STORAGE 307 LTS	16
17	DISPLAY CASE LTS		20 A	1				1	20 A		ELEV. MACH. ROOM LTS	18
19	ELEVATOR SHAFT LTS		20 A	1				1	20 A		STAFF RM/KITCHEN/MECH. 309/OFFICE 308 LTS	20
21	STAIR A LTS		20 A	1				1	20 A		EXTERIOR BUILDING WALL PACKS	22
23	STAIR B LTS		20 A	1				1	15 A		LEVEL 1 EXIT SIGNS	24
25	CORRIDOR 152 LTS		20 A	1				1	20 A		EXTERIOR POLE LIGHTING	26
27	PYLON SIGNAGE		20 A	1				1	15 A		EXTERIOR LIGHTS AT MAIN ENTRANCE/CANOPY	28
29	EXTERIOR POLE LIGHTING		20 A	1				1	15 A		CORRIDOR 140 LTS	30
31	CORRIDOR 140 LTS		15 A	1				1	15 A		EMERG FORUM	32
33	SPARE	--	15 A	1				1	20 A	--	SPARE	34
35	SPARE	--	15 A	1				1	20 A	--	SPARE	36
37	SPARE	--	15 A	1				3	30 A		EXTERNAL SPD	38
39	SPARE	--	15 A	1								40
41	SPARE	--	15 A	1								42

NOTES:

PANEL 2L

MAINS: 225 A **VOLTAGE:** 120/208V **INTERRUPTING...** 10000
MOUNTING: SURFACE **NEUTRAL BUS:** 100.00% **ENCLOSURE:** TYPE 2

CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	MUSIC/ART LTS		20 A	1				1	20 A		SCIENCE 238, CLASSROOM 237 LTS	2
3	CLASSROOM 235,236/SEMINAR 234 LTS		20 A	1				1	20 A		CLASSROOM 232,233 LTS	4
5	CLASSROOM 230,231/WORKROOM 229, ACAD...		20 A	1				1	20 A		CLASSROOM 225,226 LTS	6
7	LIBRARY LTS		20 A	1				1	20 A		CLASSROOM 223,224 LTS	8
9	CLASSROOM 220,221/SEMINAR 222 LTS		20 A	1				1	20 A		BOYS, GIRL WR/IT.T 215/CUST. 216/ BF WR 217...	10
11	CLASSROOM 210,211,212 LTS		20 A	1				1	20 A		CLASSROOM 207,208 LTS	12
13	MECHANICAL ROOM 206 LTS		20 A	1				1	20 A		GYMNASIUM LTS	14
15	STUDENT FORUM 102 LTS		20 A	1				1	20 A		STAGE LTS	16
17	SOUTH CORRIDOR 203/STORAGE 244 LTS		20 A	1				1	20 A		SEMINAR 204/STORAGE 244 LTS	18
19	CORRIDOR 219 LTS		20 A	1				1	20 A		VESTIBULE 101 LTS	20
21	CORRIDOR 129 ATRIUM LTS		20 A	1				1	20 A		GYMNASIUM LTS	22
23	LIBRARY LTS		20 A	1				1	15 A		Other	24
25	GYMNASIUM LTS		15 A	1				1	15 A		CORRIDOR 219 LTS	26
27								1	20 A	--	SPARE	28
29								1	20 A	--	SPARE	30
31								1	20 A	--	SPARE	32
33	SPARE	--	15 A	1				1	20 A	--	SPARE	34
35	SPARE	--	15 A	1				1	20 A	--	SPARE	36
37	SPARE	--	15 A	1				3	30 A		EXTERNAL SPD	38
39	SPARE	--	15 A	1								40
41	SPARE	--	15 A	1								42

NOTES:

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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Phone: 519-725-3555
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Project Number: 25387

Professional Engineers Ontario
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction.
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2026-11-04

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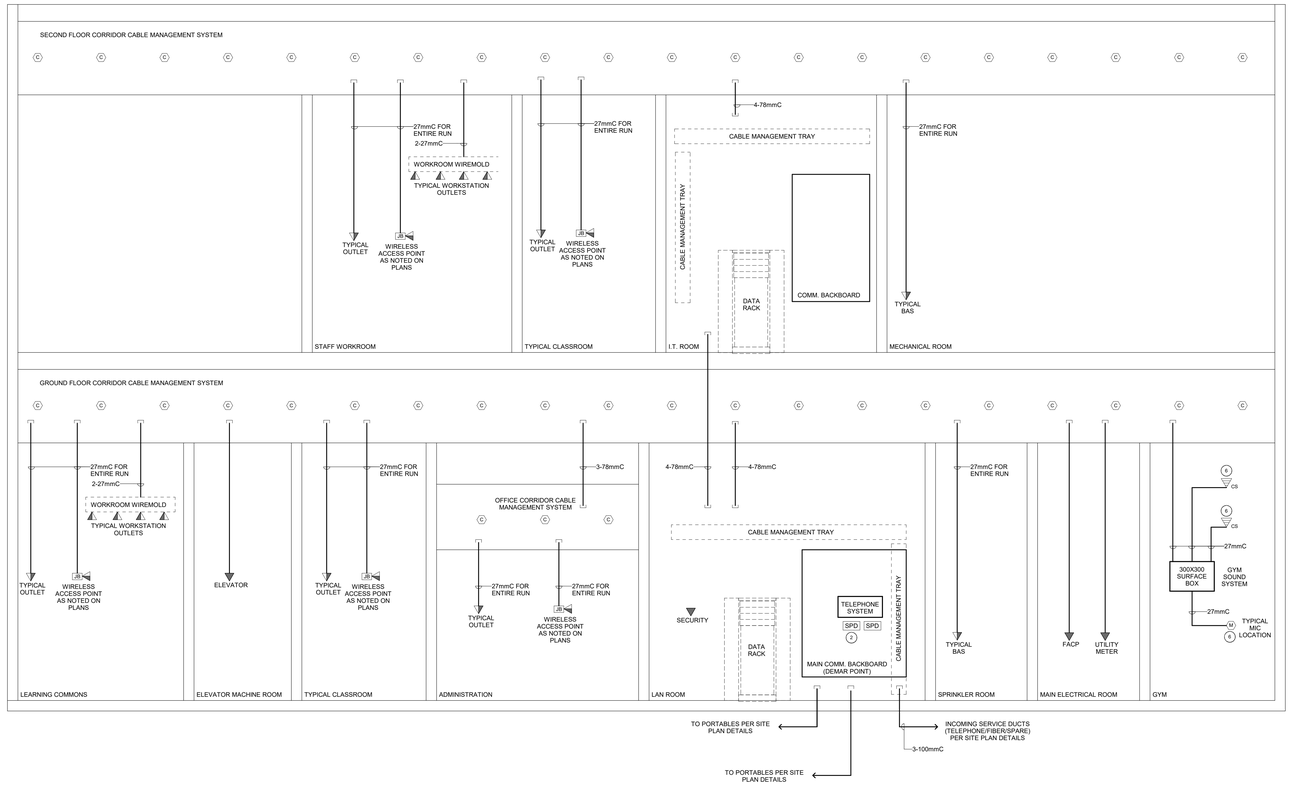
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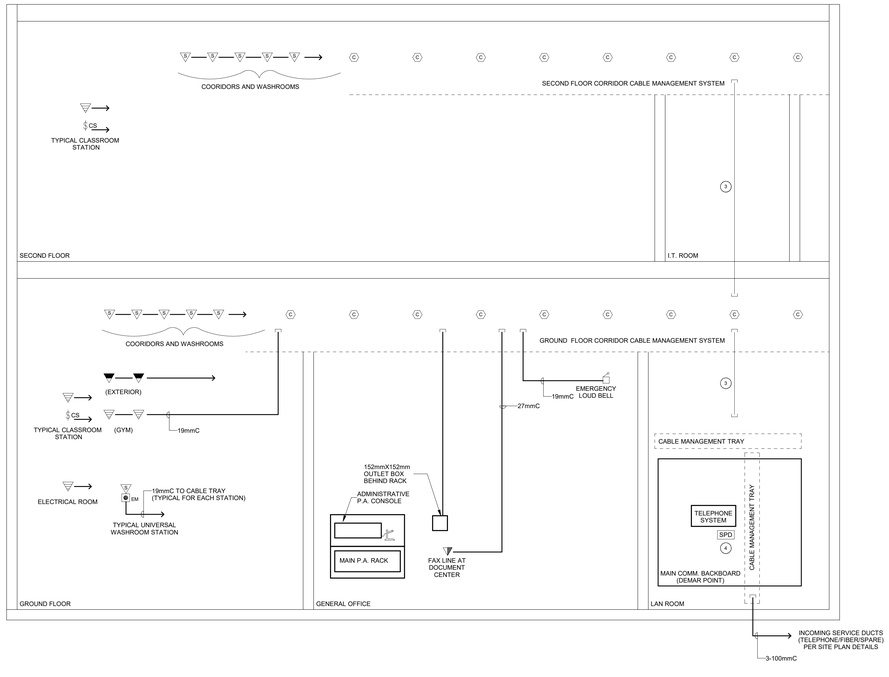
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A-TELECOMMUNICATION RISER

SCALE: NTS

GENERAL NOTES TELECOM	
1	REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF DEVICES. REFER TO ENLARGED PLANS FOR LAYOUTS OF LAN/EQUIPMENT ROOMS.
2	INDICATES SPDs ON INCOMING VOICE LINES TO BE INSTALLED AND CROSS CONNECTED BY VOICE/DATA VENDOR. INSTALL PER SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS. THIS CONTRACTOR TO PURCHASE AND HAND OVER TO VENDOR FOR INSTALLATION.
3	ALL WIRING SHOWN MUST BE PER SPECIFICATION AND INSTALLED IN CABLE TRAY IN THE CORRIDOR. THE ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUIT FROM ROUGHED-IN DEVICES TO CABLE TRAY IN THE CORRIDOR.
4	TELECOM OUTLETS TO SUIT LAYOUT INDICATED ON FLOOR PLANS TO BE PROVIDED BY SCHOOLBOARD VOICE/DATA VENDOR AS PART OF SEPARATE TENDER. COMBINATION VOICE/DATA DROPS SHALL HAVE CONDUIT AND BACKBOX SHARED BETWEEN DATA AND PA/PHONE SYSTEM VENDOR.
5	REFER TO PUBLIC ADDRESS RISERS ALONG WITH FLOOR PLANS FOR QUANTITY AND ROUTING OF SHARED RISER CONDUITS AND SLEEVES, AS WELL AS OUTLETS FOR PUBLIC ADDRESS SYSTEM.
6	REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATION OF SOUND SYSTEM INPUT OUTLETS(MICS) AND COLUMN SPEAKERS



B-PUBLIC ADDRESS, PHONE & SOUND SYSTEM RISER

SCALE: NTS

GENERAL NOTES PUBLIC ADDRESS	
1	REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF DEVICES. ALL DEVICES, EQUIPMENT AND CABLING IS TO BE SUPPLIED AND INSTALLED BY SCHOOLBOARD PUBLIC ADDRESS VENDOR AS PART OF A SEPARATE TENDER.
2	CONFIRM ALL REQUIREMENTS WITH PUBLIC ADDRESS VENDOR PRIOR TO ROUGH-IN OF EQUIPMENT.
3	INDICATES TELECOM RISER CONDUITS PER TELECOM RISER DETAIL A/E15 AND FLOOR PLANS.
4	INDICATES SPDs ON INCOMING VOICE LINES TO BE INSTALLED AND CROSS CONNECTED BY VOICE/ DATA VENDOR. INSTALL PER SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS
5	ALL WIRING SHOWN MUST BE PER SPECIFICATION AND INSTALLED IN CABLE MANAGEMENT HANGERS IN THE CORRIDOR. THE ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUIT FROM ROUGHED-IN DEVICES TO CABLE MANAGEMENT HANGERS IN THE CORRIDOR.

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Professional Engineers Ontario
Limited Engineering Licensee
Name: O.G. MCCONKEY
Number: 100170376
Limitations: Detailed design, reporting and specifications for the mechanical systems in this project only. Applies only to conformity to these systems in new and renovation construction.
Association of Professional Engineers of Ontario

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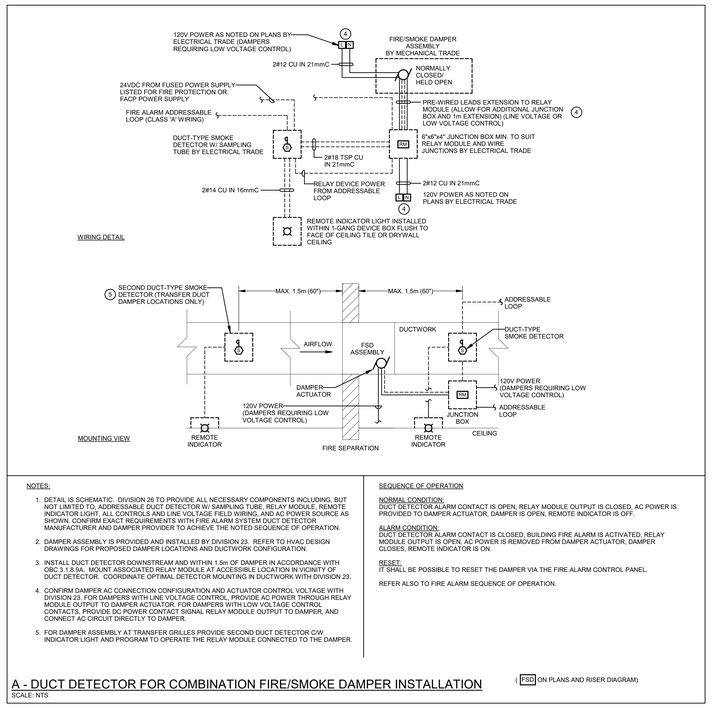
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NOTES:

1. DETAIL IS SCHEMATIC. DIVISION 26 TO PROVIDE ALL NECESSARY COMPONENTS INCLUDING, BUT NOT LIMITED TO, ADDRESSABLE DUCT DETECTOR W/ SAMPLING TUBE, RELAY MODULE, REMOTE INDICATOR LIGHT, ALL CONTROLS AND LINE VOLTAGE FIELD WIRING, AND AC POWER SOURCE AS SHOWN. CONFIRM EXACT REQUIREMENTS WITH FIRE ALARM SYSTEM DUCT DETECTOR MANUFACTURER AND DAMPER PROVIDER TO ACHIEVE THE NOTED SEQUENCE OF OPERATION.
2. DAMPER ASSEMBLY IS PROVIDED AND INSTALLED BY DIVISION 23. REFER TO HVAC DESIGN DRAWINGS FOR PROPOSED DAMPER LOCATIONS AND DUCTWORK CONFIGURATION.
3. INSTALL DUCT DETECTOR DOWNSTREAM AND WITHIN 1.5m OF DAMPER IN ACCORDANCE WITH OBC 3.1.8.9A. MOUNT ASSOCIATED RELAY MODULE AT ACCESSIBLE LOCATION IN VICINITY OF DUCT DETECTOR. COORDINATE OPTIMAL DETECTOR MOUNTING IN DUCTWORK WITH DIVISION 23.
4. CONFIRM DAMPER AC CONNECTION CONFIGURATION AND ACTUATOR CONTROL VOLTAGE WITH DIVISION 23. FOR DAMPERS WITH LINE VOLTAGE CONTROL, PROVIDE AC POWER THROUGH RELAY MODULE OUTPUT TO DAMPER ACTUATOR. FOR DAMPERS WITH LOW VOLTAGE CONTROL CONTACTS, PROVIDE DC POWER CONTACT SIGNAL RELAY MODULE OUTPUT TO DAMPER, AND CONNECT AC CIRCUIT DIRECTLY TO DAMPER.
5. FOR DAMPER ASSEMBLY AT TRANSFER GRILLES PROVIDE SECOND DUCT DETECTOR C/W INDICATOR LIGHT AND PROGRAM TO OPERATE THE RELAY MODULE CONNECTED TO THE DAMPER.

SEQUENCE OF OPERATION

NORMAL CONDITION:
DUCT DETECTOR ALARM CONTACT IS OPEN, RELAY MODULE OUTPUT IS CLOSED, AC POWER IS PROVIDED TO DAMPER ACTUATOR, DAMPER IS OPEN, REMOTE INDICATOR IS OFF.

ALARM CONDITION:
DUCT DETECTOR ALARM CONTACT IS CLOSED, BUILDING FIRE ALARM IS ACTIVATED, RELAY MODULE OUTPUT IS OPEN, AC POWER IS REMOVED FROM DAMPER ACTUATOR, DAMPER CLOSES, REMOTE INDICATOR IS ON.

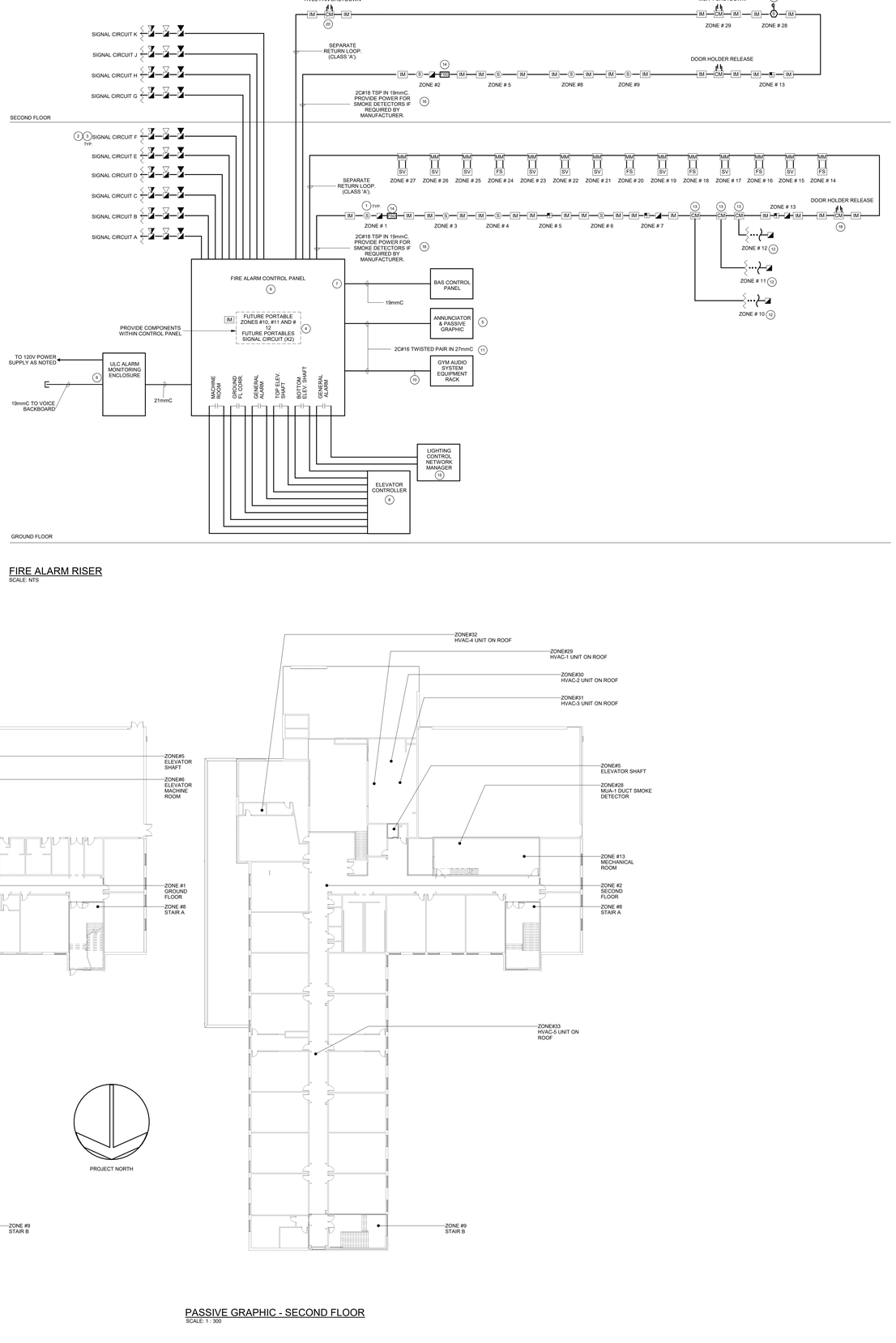
RESET:
IT SHALL BE POSSIBLE TO RESET THE DAMPER VIA THE FIRE ALARM CONTROL PANEL.

REFER ALSO TO FIRE ALARM SEQUENCE OF OPERATION.

A - DUCT DETECTOR FOR COMBINATION FIRE/SMOKE DAMPER INSTALLATION

SCALE: NTS

(FSD ON PLANS AND RISER DIAGRAM)



FIRE ALARM RISER

SCALE: NTS

PASSIVE GRAPHIC - GROUND FLOOR

SCALE: 1 : 300

PASSIVE GRAPHIC - SECOND FLOOR

SCALE: 1 : 300

FIRE ALARM NOTES

1	REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITIES OF DEVICES.
2	CONTRACTOR IS TO CONFIRM WIRE SIZE (BASED UPON LENGTH OF CIRCUIT RUN AND QUANTITY OF SIGNALS) FOR SIGNAL CIRCUIT WITH MANUFACTURER.
3	PROVIDE THE REQUIRED NUMBER OF SIGNAL CIRCUITS TO SUIT THE QUANTITY OF STROBES. SIGNAL CIRCUITS ARE TO BE ALTERNATED.
4	LOCATE END OF LINE RESISTORS AND ISOLATOR MODULES IN SERVICE ROOMS AT ±1.8M AFF. PROVIDE LAMACOID LABEL INDICATING ZONE LABEL AND NUMBER.
5	AS PART OF SHOP DRAWING SUBMITTAL PROCESS THE DRAWING FOR THIS ANNUNCIATOR IS TO BE FORWARDED TO THE LOCAL BUILDING DEPARTMENT FOR REVIEW/APPROVAL PRIOR TO RELEASE INTO PRODUCTION.
6	CO-ORDINATE WITH SCHOOLBOARD SECURITY VENDOR AND PROVIDE THE NECESSARY CONDUCTORS TO INTERFACE THE TWO PANELS TO ALLOW ALARM AND TROUBLE CONDITIONS TO BE MONITORED AND REPORTED BY THE SECURITY SYSTEM.
7	PROVIDE WITHIN CONTROL PANEL ADDITIONAL CONTACTS FOR "FIRE ALARM SYSTEM TROUBLE" AND "FIRE ALARM SYSTEM ACTIVATED" CONDITION AND CO-ORDINATE WITH CONTROLS CONTRACTOR TO COMPLETE CONNECTION/INTERFACE OF THESE SYSTEMS.
8	CONTACTS WITHIN THE CONTROLLER WILL BE PROVIDED BY THE ELEVATOR SUPPLIER. CO-ORDINATE AND CONNECT ACCORDINGLY.
9	WITHIN THE FIRE ALARM CONTROL PANEL, PROVIDE 6 NORMALLY OPEN DRY CONTACTS RATED FOR 120V AC AT 1.0 AMP. PROVIDE WIRING AND CONNECTION FROM THESE CONTACTS TO THE ELEVATOR CONTROLLER AS ONE CONTACT FOR EACH ELEVATOR LOBBY, AND ONE CONTACT FOR "ELEVATOR MACHINE ROOM". THESE CONTACTS ARE TO CLOSE WHEN THE RESPECTIVE DEVICE IS INITIATED.
10	CO-ORDINATE WITH LV LIGHTING CONTROL SYSTEM SUPPLIER AND PA SUB-CONTRACTOR AND PROVIDE CONTACT IN AND CONNECTION FROM CONTROL PANEL TO LIGHTING AND AUDIO EQUIPMENT TO AUTOMATICALLY BRING HOUSE LIGHTS TO FULL AND MUTE THE AUDIO AT THE NOTED LOCATIONS UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
11	CONFIRM WIRING REQUIREMENTS WITH RESPECTIVE SYSTEM MANUFACTURER.
12	INDICATES (CONVENTIONAL TYPE) DEVICES WITHIN FUTURE PORTABLE CLASSROOMS (NOT IN CONTRACT).
13	INDICATES CONVENTIONAL LOOP MODULE FOR FUTURE PORTABLE CLASSROOM DEVICES.
14	INDICATES 120V POWER TO FIRE/SMOKE DAMPER AND ASSOCIATED ADDRESSABLE FIRE ALARM SYSTEM DUCT DETECTOR, RELAY MODULE AND REMOTE INDICATOR LIGHT. FOR DAMPER ACTUATION, REFER TO FIRE ALARM RISER, DUCT DETECTOR FOR COMBINATION FIRE/SMOKE DAMPER CONNECTION DETAIL AND SPECIFICATIONS.
15	PROVIDE RELAY TO LIGHTING CONTROL NETWORK MANAGER FOR OVERRIDE OF PROGRAMMED LIGHTING CONTROL FUNCTIONS UPON INITIATION OF ALARM SIGNAL.
16	PROVIDE A DEDICATED ADDRESSABLE LOOP PER FLOOR OR AS SHOWN TO ALLOW MAXIMUM NUMBER OF CONNECTED DEVICES PER MANUFACTURERS REQUIREMENTS. NO COST SAVING MEASURES WILL BE ACCEPTED FOR REDUCED QUANTITY OF LOOPS.
17	INDICATES AIR HANDLING UNIT FIRE ALARM SHUT DOWN CONNECTION. COORDINATE WITH MECHANICAL TRADE TO PROVIDE SHUTDOWN SIGNAL TO UNIT CONTROLS. REFER TO FIRE ALARM SEQUENCE OF OPERATION.
18	INDICATES FIELD RELAY ON ADDRESSABLE LOOP FOR CONNECTION TO EACH ELECTROMAGNETIC DOOR HOLD FOR RELEASE ON GENERAL ALARM. REFER TO FLOOR PLANS FOR LOCATIONS AND FIRE ALARM SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
19	PROVIDE LINE ISOLATOR MODULES TO ISOLATE ADDRESSABLE LOOP SEGMENTS ON A PER FIRE ALARM ZONE BASIS, ON A PER FLOOR BASIS, AND AS REQUIRE BY SYSTEM MANUFACTURER AND BUILDING CODE. PROVIDE ADDITIONAL LINE ISOLATORS AS REQUIRE OVER AND ABOVE THOSE INDICATED ON RISER DIAGRAM TO SATISFY ALL ISOLATION REQUIREMENTS.
20	INDICATES FIELD RELAY ON ADDRESSABLE LOOP FOR FIRE ALARM SHUTDOWN OF HVLS FAN UPON ACTIVATION OF LOCAL SPRINKLER ZONE FLOR SWITCH PER FIRE ALARM SEQUENCE OF OPERATION. REFER TO FLOOR PLANS FOR LOCATION AND FURTHER INFORMATION REGARDING INTERCONNECTION TO FAN STARTER.

FIRE ALARM ANNUNCIATOR SCHEDULE

Zone	Description	Alarm	Supervisory
1	GROUND FLOOR	•	
2	SECOND FLOOR	•	
3	SPRINKLER ROOM	•	
4	ELECTRICAL ROOM	•	
5	ELEVATOR SHAFT	•	
6	ELEVATOR MACHINE ROOM	•	
7	CHILDCARE STORAGE	•	
8	STAIR A	•	
9	STAIR B	•	
10	FUTURE PORTABLES #1	•	
11	FUTURE PORTABLES #2	•	
12	FUTURE PORTABLES #3	•	
13	MECHANICAL ROOM	•	
14	GROUND FLOOR WINDOW SPRINKLER FLOW SWITCH	•	
15	GROUND FLOOR WINDOW SPRINKLER SUPERVISED VALVE		•
16	GROUND FLOOR SPRINKLER FLOW SWITCH	•	
17	GROUND FLOOR SPRINKLER SUPERVISED VALVE		•
18	SECOND FLOOR WINDOW SPRINKLER FLOW SWITCH	•	
19	SECOND FLOOR WINDOW SPRINKLER SUPERVISED VALVE		•
20	SECOND FLOOR SPRINKLER FLOW SWITCH	•	
21	SECOND FLOOR SPRINKLER SUPERVISED VALVE		•
22	OUTGOING SUPERVISED DOUBLE CHECK VALVE#1		•
23	INCOMING SUPERVISED DOUBLE CHECK VALVE#1		•
24	BYPASS VALVE		•
25	OUTGOING SUPERVISED DOUBLE CHECK VALVE#2		•
26	INCOMING SUPERVISED DOUBLE CHECK VALVE#2		•
27	MAIN SPRINKLER VALVE		•
28	MUA-1 - DUCT SMOKE DETECTOR	•	
29	MUA-1 SHUTDOWN	•	
30	SPARE	•	
31	SPARE	•	
32	SPARE	•	
33	SPARE	•	
34	FUTURE ADDITION GROUND FLOOR	•	
35	FUTURE ADDITION SECOND FLOOR	•	
36	FUTURE ADDITION GROUND FLOOR SUPERVISED VALVE		•
37	FUTURE ADDITION SECOND FLOOR SUPERVISED VALVE		•
38	FUTURE ADDITION GROUND FLOW SWITCH	•	
39	FUTURE ADDITION SECOND FLOOR FLOW SWITCH	•	
40	SPARE		
41	SPARE		
42	SPARE		
43	SPARE		
44	SPARE		
45	SPARE		
46	SPARE		
47	SPARE		
48	SPARE		
49	SPARE		
50	SPARE		

FIRE ALARM SEQUENCE OF OPERATIONS

FIRE ALARM SEQUENCE OF OPERATION – SINGLE STAGE:

THE FIRE ALARM SYSTEM SHALL BE A SINGLE STAGE SYSTEM CONSISTING OF CONTROL PANEL(S), REMOTE ANNUNCIATOR(S), NOTIFICATION DEVICES, ALARM INITIATING DEVICES, SUPERVISORY INITIATING DEVICES, AND ANCILLARY CONNECTIONS AS INDICATED ON ELECTRICAL DESIGN DRAWINGS AND SPECIFICATIONS.

ALARM ACTIVATION

1. UPON ACTIVATION OF ANY ALARM INITIATING DEVICE (MANUAL STATION, HEAT DETECTOR, SMOKE DETECTOR, DUCT DETECTOR, SPRINKLER WATER FLOW DEVICE, SUPPRESSION SYSTEM, ETC.) SHALL CAUSE THE FOLLOWING FIRE ALARM SYSTEM ALARM ACTIONS:
   - A. ACTIVATE THE RESPECTIVE RED ALARM LED AT THE CONTROL PANEL(S) AND REMOTE ANNUNCIATOR PANEL(S).
   - B. CAUSE ZONE OF ALARM INITIATING DEVICE TO BE INDICATED AT THE CONTROL PANEL(S) AND REMOTE ANNUNCIATOR PANEL(S).
   - C. CAUSE AUXILIARY CONTACTS TO ACTIVATE AND INITIATE ELEVATOR RECALL PER CSA-B44 (EXCLUDING ALARM INITIATED BY MANUAL PULL STATIONS).
   - D. CAUSE AUXILIARY CONTACTS TO ACTIVATE AIR-HANDLING UNIT SHUT DOWN.
   - E. CAUSE AUXILIARY CONTACTS TO ACTIVATE AND ELECTRO-MAGNETICALLY HELD OPEN DOORS TO CLOSE AUTOMATICALLY.
   - F. CAUSE AUXILIARY CONTACTS TO SIGNAL HVLS FANS TO SHUTDOWN (ON INITIATION SIGNAL FROM SPRINKLER WATER FLOW DEVICE WITHIN FLOOR AREA HVLS FAN SERVES).
   - G. ACTIVATE THE COMMON ALARM POINT TO SIGNAL THE LOCAL FIRE DEPARTMENT OR APPROVED CENTRAL MONITORING AGENCY OF THE ALARM CONDITION.
   - H. CAUSE THE ALARM AUDIBLE NOTIFICATION DEVICES TO SOUND A TEMPORAL 3 PATTERN THROUGHOUT THE BUILDING UNTIL SILENCED.
   - I. CAUSE THE VISUAL NOTIFICATION DEVICES TO ACTIVATE THROUGHOUT THE BUILDING UNTIL AUDIBLE ALARM IS SILENCED OR SYSTEM RESET.
   - J. LOG THE ALARM EVENT IN THE HISTORICAL EVENT LOG FILE.

SUPERVISORY ACTIVATION

1. OPERATION OF ANY SUPERVISORY INITIATING DEVICE (SPRINKLER SHUT-OFF VALVE OR LOW-PRESSURE SWITCH, DUCT DETECTOR HEATER LOSS OF AC POWER, GENERATOR RUNNING OR TROUBLE CONTACT, FIRE PUMP RUNNING, HEAT TRACING OF SPRINKLER/STANDPIPE, SNOW MELT FOR EXIT PATH, ETC.) SHALL CAUSE THE FOLLOWING FIRE ALARM SYSTEM SUPERVISORY ACTIONS:
   - A. CAUSE A SUPERVISORY ALARM TO LATCH INTO THE SYSTEM.
   - B. ACTIVATE THE RESPECTIVE YELLOW SUPERVISORY LED AT THE CONTROL PANEL(S) AND REMOTE ANNUNCIATOR PANEL(S).
   - C. CAUSE ZONE OF SUPERVISORY INITIATING DEVICE TO BE INDICATED AT THE CONTROL PANEL(S) AND REMOTE ANNUNCIATOR PANEL(S).
   - D. ACTIVATE THE COMMON SUPERVISORY POINT TO SIGNAL THE LOCAL FIRE DEPARTMENT OR APPROVED CENTRAL MONITORING AGENCY OF THE SUPERVISORY CONDITION.
   - E. SOUND THE AUDIBLE CONTROL PANEL BUZZER.
   - F. LOG THE ALARM EVENT IN THE HISTORICAL EVENT LOG FILE.

TROUBLE ACTIVATION

1. OPERATION OF ANY SYSTEM OR DEVICE TROUBLE SIGNAL SHALL CAUSE THE FOLLOWING FIRE ALARM SYSTEM TROUBLE ACTIONS:
   - A. CAUSE AN AUDIBLE AND VISUAL TROUBLE SIGNAL AT THE CONTROL PANEL(S) AND REMOTE TROUBLE INDICATOR(S).
   - B. ACTIVATE THE COMMON TROUBLE POINT TO SIGNAL THE LOCAL FIRE DEPARTMENT OR APPROVED CENTRAL MONITORING AGENCY OF THE TROUBLE CONDITION.
   - C. LOG THE ALARM EVENT IN THE HISTORICAL EVENT LOG FILE.
   - D. DESCRIBE THE NATURE OF THE TROUBLE ON THE CONTROL PANEL(S) LCD DISPLAY AND REMOTE ANNUNCIATOR PANEL(S). THE FOLLOWING SYSTEM AND DEVICE TROUBLE CONDITIONS SHALL BE MONITORED:
     - a. OPEN CIRCUIT FAULT IN THE FIELD WIRING OF AN ADDRESSABLE LOOP, ADDRESSABLE DETECTION, SIGNAL MODULE, OR A SHORT CIRCUIT ON AN ADDRESSABLE LOOP, CONVENTIONAL DETECTION OR SIGNAL CIRCUIT.
     - b. DISCONNECTION OR FAILURE OF THE STANDBY BATTERIES.
     - c. A GROUND FAULT CONDITION ON A LOOP OR SIGNAL CIRCUIT FIELD WIRE.
     - d. FAILURE OF THE MAIN 120VAC POWER SUPPLIED TO THE PANEL.
     - e. REMOVAL OR MALFUNCTION OF ANY ADDRESSABLE FIELD DEVICE OR ANY SUPERVISED PANEL MODULE OR COMPONENT.
     - f. FIRE/SMOKE DAMPER MONITOR MODULE SIGNAL FOR LOSS OF AC POWER TO DAMPER ASSEMBLY

SYSTEM SILENCE

1. THE AUDIBLE NOTIFICATION DEVICES SHALL CONTINUE TO SOUND DURING ALARM CONDITIONS UNTIL MANUALLY OR AUTOMATICALLY SILENCED. AUTOMATIC SILENCING SHALL NOT BE POSSIBLE DURING THE FIRST 5 MIN OF ALARM OPERATION.
2. THE CONTROL PANELS AND REMOTE BUZZERS SHALL BE SILENCED BY OPERATION OF THE PANELS ACKNOWLEDGE SWITCH.

SYSTEM RESET

1. THE ALARM, SUPERVISORY AND TROUBLE CONDITIONS SHALL BE CLEARED ONLY UPON ACTIVATION OF THE FIRE ALARM CONTROL PANEL RESET SWITCH, AFTER THE DEVICE THAT INITIATED THE ALARM HAS BEEN CLEARED OR RESTORED.

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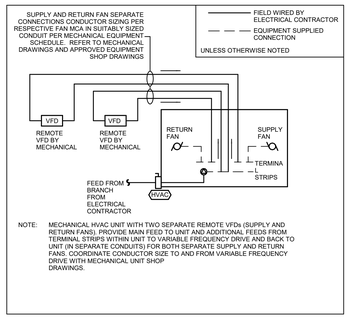
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HOSSACK & ASSOCIATES ARCHITECTS
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SCALE	As indicated
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NOTE: MECHANICAL HVAC UNIT WITH TWO SEPARATE REMOTE VFDs (SUPPLY AND RETURN FANS). PROVIDE MAIN FEED TO UNIT AND ADDITIONAL FEEDS FROM TERMINAL STRIPS WITHIN UNIT TO VARIABLE FREQUENCY DRIVE AND BACK TO UNIT (IN SEPARATE CONDUITS) FOR BOTH SEPARATE SUPPLY AND RETURN FANS. COORDINATE CONDUCTOR SIZE TO AND FROM VARIABLE FREQUENCY DRIVE WITH MECHANICAL UNIT SHOP DRAWINGS.

A - MECHANICAL EQUIPMENT MULTIPLE VFD CONNECTION DETAIL

SCALE: NTS

EQUIPMENT WIRING SCHEDULE

E = ELECTRICAL
M = MECHANICAL
O = OTHERS

Description		Electrical Data				Starter						Ctrl Device				Isolating Device				Remote Items																Interlock		Remarks
Mechanical Item	Description	Provided By	Voltage	Size hp/kW/Amps	Phase	MOCP	Magnetic	Manual	Combination	Contactor	VFD	ECM	Hand/Off/Auto	On/Off Selector	High/Low/Off	Pilot Light	Disconnect	WP Disconnect	Breaker/Fuse	Starter/Device Wired by	Thermostat	RA Thermostat	Programmable Time Clock	Motor Rated Switch	Current Sensor	Occ Sensor	Dual Voltage Relay	Interval Timer	VRF System Control Panel	Smoke Control System Panel	Control Panel	Wired by	Bldg Auto System	Wired by	Miscellaneous 1	Miscellaneous 2	Interlock to	Interlock by	
MUA-1	CLASSROOM INDOOR AIR HANDLING UNIT	M	575	42 MCA	3	50					MX2						E		E	E												M	M	M				NOTE 1
HVAC-1	ROOFTOP HVAC UNIT	M	575	26 MCA	3	35												E	E	E	M										M	M	M				
HVAC-2	ROOFTOP HVAC UNIT	M	575	26 MCA	3	35												E	E	E	M										M	M	M				
HVAC-3	ROOFTOP HVAC UNIT	M	575	22 MCA	3	25												E	E	E	M										M	M	M				
HVAC-4	ROOFTOP HVAC UNIT	M	575	20 MCA	3	30												E	E	E	M										M	M	M				
HVAC-5	ROOFTOP HVAC UNIT	M	575	26 MCA	3	35												E	E	E	M										M	M	M				
CH-1	OUTDOOR CHILLER	M	575	244	3	250												E	E	E												M	M			C-7, C-8	M	
ERV-1	EXTERIOR ENERGY RECOVERY VENTILATOR	M	575	21.4 MCA	3	25												E	E	E												M	M					
B-1	BOILER	M	120	13 MCA	1			E								E	E		E	E												M	M			BP-1	M	WIRE THRU LWCO & FLOW SWITCH
B-2	BOILER	M	120	13 MCA	1			E								E	E		E	E												M	M			BP-2	M	WIRE THRU LWCO & FLOW SWITCH
BP-1	BOILER PUMP	M	575	2HP	3				E				E			E	E		E	E												M	M			B-1	M	
BP-2	BOILER PUMP	M	575	2HP	3				E				E			E	E		E	E												M	M			B-2	M	
BF-1	BIG-ASS FAN	M	208	1/2HP	1	15						M					E		E	E											M	M/E	M	M					PROVIDE SHUT DOWN ON FIRE ALARM. RUN CONTROL WIRING BETWEEN CONTROLLER & FAN
EF-1	CEILING MOUNTED EXHAUST	M	120	FHP	1												E		E	E			E								E							LOCAL EXHAUST
EF-2	ROOF MOUNTED EXHAUST	M	120	FHP	1													E	E	E							M				M/E	M	M					
EF-3	CEILING MOUNTED EXHAUST	M	120	FHP	1												E		E	E		M					M				M/E	M	M					ELECTRICAL ROOM EXHAUST
EF-4	CEILING MOUNTED EXHAUST	M	120	FHP	1												E		E	E		M					M				M/E	M	M					LAN ROOM EXHAUST
EF-5	DRYER BOOSTER FAN	M	120	FHP	1												E		E	E					M							M	M					WIRE THRU CURRENT SENSOR PROVIDED BY MECH
EF-6	ROOF MOUNTED EXHAUST	M	120	FHP	1													E	E	E		M					M				M/E	M	M					ELEVATOR MACHINE ROOM EXHAUST
EF-7	ROOF MOUNTED EXHAUST	M	120	FHP	1													E	E	E				E			M				M/E	M	M					SCIENCE EXHAUST
EF-8	SIDEWALL EXHAUST FAN	M	120	FHP	1												E		E	E		M					M				M/E	M	M				M	MECHANICAL ROOM
EF-9	ROOF MOUNTED EXHAUST	M	208	3/4HP	3				E				E			E		E	E	E												M	M					
SF-1	SIDEWALL SUPPLY FAN	M	120	FHP	1												E		E	E		M					M				M/E	M	M					MECHANICAL ROOM
C-1	MAIN HEATING PUMP	M	575	15 HP	3						M						E		E	E													M	M					
C-2	MAIN HEATING PUMP	M	575	15 HP	3						M						E		E	E													M	M					
C-3	GLYCOL HEATING PUMP	M	575	3 HP	3						M						E		E	E													M	M					
C-4	GLYCOL HEATING PUMP	M	575	3 HP	3						M						E		E	E													M	M					
C-5	MAIN CHILLED PUMP	M	575	15 HP	3						M						E		E	E													M	M					
C-6	MAIN CHILLED PUMP	M	575	15HP	3						M						E		E	E													M	M					
C-7	CHILLED GLYCOL PUMP	M	575	10 HP	3						M						E		E	E													M	M			CH-1	M	
C-8	CHILLED GLYCOL PUMP	M	575	10 HP	3						M						E		E	E													M	M			CH-1	M	
P-1	GLYCOL TANK/PUMP	M	120	FHP	1												E		E	E													M	M					GLYCOL FEEDER PUMP. PRESSURE SENSOR BY MECH
H-5	CABINET UNIT HEATER	M	120	FHP	1												E		E	E	M											M	M	M				RECESSED/SEMI-RECESSED
H-6	CABINET UNIT HEATER	M	120	FHP	1												E		E	E	M											M	M	M				CEILING MOUNTED
H-7	HORIZONTAL UNIT HEATER	M	120	FHP	1												E		E	E	M											M	M	M				
WH-1	WATER HEATER	M	120	FHP	1												E		E	E													M	M					SCHOOL
WH-2	WATER HEATER	M	120	FHP	1												E		E	E													M	M					DAYCARE
BAS	BAS PANEL	M	120	FHP	1												E		E	E													M	M					PROVIDE DATA OUTLET
RP-1	RECIRC PUMP	M	120	FHP	1												E		E	E							M					M/E	M	M					MECHANICAL ROOM
RP-2	RECIRC PUMP	M	120	FHP	1												E		E	E							M					M/E	M	M					DAYCARE MECHANICAL ROOM
TSP	TRAP PRIMER	M	120	FHP	1												E		E	E																			
HT	HEAT TRACE	M	120	FHP	1														E	E																			
AC-1	WALL HUNG AC UNIT	M	208	1 MCA	1	15											E		E	E	M											M	M	M		CU-1	M	WIRE THRU CONDENSING UNIT
CU-1	CONDENSING UNIT	M	208	1 9MCA	1	25												E	E	E												M	M			AC-1	M	
AC-2	WALL HUNG AC UNIT	M	208	1 MCA	1	15											E		E	E	M											M	M	M		CU-2	M	WIRE THRU CONDENSING UNIT
CU-2	CONDENSING UNIT	M	208	19 MCA	1	25												E	E	E												M	M			AC-2	M	
AC-3	WALL HUNG AC UNIT	M	208	1 MCA	1	15											E		E	E	M											M	M	M		CU-3	M	WIRE THRU CONDENSING UNIT
CU-3	CONDENSING UNIT	M	208	1 9MCA	1	25												E	E	E												M	M			AC-3	M	
FC-A	FAN COIL	M	208	FHP	1	15											E		E	E	M											M	M					MULTIPLE LOCATIONS
FC-B	FAN COIL	M	208	FHP	1	15											E		E	E	M											M	M					MULTIPLE LOCATIONS
FC-C	FAN COIL	M	208	FHP	1	15											E		E	E	M											M	M					MULTIPLE LOCATIONS
FC-D	FAN COIL	M	208	FHP	1	15											E		E	E	M											M	M					MULTIPLE LOCATIONS
FC-E	FAN COIL	M	208	FHP	1	15											E		E	E	M											M	M					MULTIPLE LOCATIONS
VAV	VAV CONTROL POWER	M	120	FHP	1														E	E																			

Notes:

1 INDICATES BUILT-UP MECHANICAL HVAC UNIT WITH TWO SEPARATE REMTE VFDs (SUPPLY AND RETURN FANS). PROVIDE MAIN FEED TO UNIT AND ADDITIONAL FEEDS FROM TERMINAL STRIPS WITHIN UNIT TO VARIABLE FREQUENCE DRIVE AND BACK TO UNIT (IN SEPARATE CONDUITS) FOR BOTH SEPARATE SUPPLY AND RETURN FANS. REFER TO DETAIL. COORDINATE CONDUCTOR SIZE TO AND FROM VARIABLE FREQUENCY DRIVE WITH MECHANICAL UNIT SHOP DRAWING, AND MECHANICAL EQUIPMENT SCHEDULES. REFER TO MECHANICAL DRAWINGS.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale this drawing.
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Consulting Engineers
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Number: 100170376
Limitations: Limited design, reporting and specification for conformity to three systems in new and renovation construction
Association of Professional Engineers of Ontario.

NO.	DESCRIPTION	DATE
2	ISSUED FOR TENDER	26.11.04
1	ISSUED FOR PERMIT	26.03.06

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North Oakville #3
CATHOLIC ELEMENTARY SCHOOL

NORTH-WEST CORNER OF SETTLER'S RD. & POST RD. OAKVILLE, ON

HALTON CATHOLIC DISTRICT SCHOOL BOARD

EQUIPMENT WIRING SCHEDULE

HOSSACK & ASSOCIATES ARCHITECTS
4 CHISHOLM DRIVE
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