# THE CITY OF WELLAND
# REGIONAL MUNICIPALITY OF NIAGARA

CLIENT:

## DISTRICT SCHOOL BOARD of NIAGARA

191 CARLTON ST. | ST. CATHARINES | L2R 7P4


**Architectural**

A1-1 Site Plan
A2-0 O.B.C. Plans
A2-1 Partial First Floor Plan
A2-2 Partial First Floor Plan
A2-3 Second Floor Plan
A2-4 Third Floor Plan
A2-5 Partial Roof Plan
A2-6 Partial Roof Plan
A2-7 Enlarged Plans - Stair A
A2-8 Enlarged Plans - Stair B
A3-0 Overall East & West Elevations, Kindergarten Building and Keying
A3-1 Elevations
A3-2 Elevations
A4-1 Sections
A4-2 Sections
A4-3 Sections
A4-4 Sections
A4-5 Stage Ramp and Stair Sections
A5-1 Section Details
A5-2 Section Details
A5-3 Section Details
A5-4 Section Details
A5-5 Elevator and Stair Details
A5-6 Plan Details
A5-7 Plan Details
A5-8 Plan Details
A5-9 Barrier Free Typical Details
A6-1 Partial First Floor Reflected Ceiling Plan
A6-2 Partial First Floor Reflected Ceiling Plan
A6-3 Second Floor Reflected Ceiling Plan
A6-4 Third Floor Reflected Ceiling Plan
A7-1 Partial First Floor Flooring Plan
A7-2 Partial First Floor Flooring Plan
A7-3 Second Floor Flooring Plan
A7-4 Third Floor Flooring Plan
A7-5 Gymnasium Gameline Marking
A7-6 Gymnasium Basketball Court Dimensions
A7-7 Gymnasium Volleyball & Badminton Court Dimensions
A8-0 Key Plans
A8-1 Vestibule & Lobby Interior Elevations
A8-2 Lobby Interior Elevations
A8-3 Typical Classroom & Kindergarten Interior Elevations
A8-4 Kindergarten & Daycare Interior Elevations
A8-5 Daycare Interior Elevations

**Architectural (continued)**

A8-6 Interior Elevations
A8-7 Interior Elevations
A8-8 Washroom Interior Elevations
A8-9 Classroom 215 & 315 Interior Elevations
A8-10 Gymnasium Interior Elevations
A9-1 Millwork Details
A9-2 Millwork Details
A9-3 Millwork Details
SC-1 Door Schedule - First Floor
SC-2 Door Schedule - Second & Third Floors
SC-3 Door Frame Types
SC-4 Window Frame Types
SC-5 Room Finish Schedule - First Floor
SC-6 Room Finish Schedule - Second & Third Floors

**Civil**

C0.1 General Notes, Typical Details and Key Plan
C0.2 Typical Details
C1 Site Services Plan
C2 Site Drainage Plan

**Landscape**

L1 Landscape Plan
L2 Landscape Details
L3 Landscape Details
L4 Landscape Details

**Structural**

S0 General Notes & Drawing List
S1.1 Partial Foundation Plan & Schedules
S1.2 Partial Foundation Plan & Schedules
S2.1 Partial Ground Floor Plan & Schedules
S2.2 Partial Ground Floor Plan & Schedules
S2.3 Stage Plan & Sections
S3 Second Floor Plan
S4 Third Floor Plan
S5.1 Partial Roof Plan
S5.2 Partial Roof Plan
S6 Typical Details
S7 Typical Details
S8 Sections & Details
S9 Sections & Details
S10 Sections and Details
S11 Stair 'B' Plans
S12 Stair 'A' Plans & Typical Stair Details

**Mechanical**

M1-1 Legends & Schedules
M1-2 Schedules
M1-3 Schedules
M1-4 Schedules
M1-5 Mechanical Details
M1-6 Mechanical Details & Schematics
M1-7 Mechanical Details & Schematics
M2-1 Partial Ground Floor Plan - West Plumbing Layout
M2-2 Partial Ground Floor - East Plumbing Layout
M2-3 Second Floor Plan - Plumbing Layout
M2-4 Third Floor Plan - Plumbing Layout
M3-1 Partial Ground Floor - West HVAC Layout
M3-2 Partial Ground Floor - East HVAC Layout
M3-3 Second Floor Plan - HVAC Layout
M3-4 Third Floor Plan - HVAC Layout
M3-5 Mechanical Roof Plan & Details
M3-6 Mechanical Sections
M4-1 Partial Ground Floor Plan - West Fire Protection Layout
M4-2 Partial Ground Floor Plan - East Fire Protection Layout
M4-3 Second Floor Plan - Fire Protection Layout
M4-4 Third Floor Plan - Fire Protection Layout

**Electrical**

E1-1 Site Plan Electrical Layout
E1-2 Electrical Details
E2-1 Partial Ground Floor Plan South New Lighting Layout
E2-2 Partial Ground Floor Plan North New Lighting Layout
E2-3 Second Floor Plan New Lighting Layout
E2-4 Third Floor Plan New Lighting Layout
E3-1 Partial Ground Floor Plan South New Power & Systems Layout
E3-2 Partial Ground Floor Plan North New Power & Systems Layout
E3-3 Second Floor Plan New Power & Systems Layout
E3-4 Third Floor Plan New Power & Systems Layout
E4-1 Clock and Public Address Riser
E5-1 Electrical Details and Risers
E5-2 Power Risers and Panel Schedules


**Proposed New:**

## Dain City Public School

**415 Eastbridge Aveneue**

**Welland, ON**

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857

PROJECT # 2501

ISSUED FOR TENDER - February 24, 2026


WHITELINE Architects Inc.

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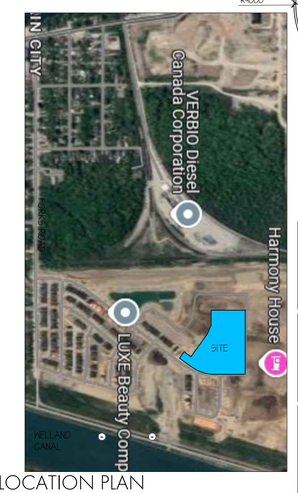
# SITE STATISTICS

| ITEM DESCRIPTION | PERMITTED / REQ'D REGULATIONS | ACTUAL OR PROPOSED |
|---|---|---|
| ZONING DESIGNATION: **RL2** LOW DENSITY Residential Zoning By-Law 20117 - 117) **DELINEATED BUILT UP AREA** | ELEMENTARY SCHOOL | ELEMENTARY SCHOOL |
| NET LOT AREA | 400 m2 (min) | 28,496 m2 (28.49 ha) |
| LOT COVERAGE (BUILDING AREA) | 40% max | 3,513m2 NEW SCHOOL + 974 m2 (FUTURE PORTABLES) =4,487m2 = 15.7% coverage |
| GROSS FLOOR AREA | – | 6,200 m2 (NEW TOTAL BLDG) |
| | | |
| BUILDING HEIGHT | 14m max. | 12.2 m |
| FRONT YARD SETBACK | 6 m | 36.7 m |
| SIDE YARD SETBACK | 6 m | 17.5 m |
| INTERIOR SIDE YARD SETBACK | 6 m | 27.5 m |
| REAR YARD SETBACK | 6 m | 116.1 m |
| LANDSCAPE AREA | 15% min. | T.B.D. |
| REQUIRED PARKING SPACES: | | |
| SECTION 6.4 ELEMENTARY SCHOOL: 1.25 spaces per Classroom | 20 Classrooms 5 Kindergarten 2 Special Needs + 8 Future Portables TOTAL = 35 1.25 x 35 = 44 Spaces | 72 Spaces (Including 2 Barrier Free) |
| DAY CARE CENTRE | 0 required where day care centre is located within and educational establishment | 14 Spaces |
| COMMUNITY CENTRE | 1 per 30m2 of Gross floor area = 250m2 / 30 = 9 | 14 Spaces |
| BICYCLE PARKING | 1 space per 100m2 of gross floor area = 63 | New bike racks with 63 spaces |
| SNOW PILING AREA -NEW LOT | 2% of parking/drives | T.B.D. |
| BUS COUNT - NSTS | 9 full size buses | |




OVERALL SITE PLAN




LOCATION PLAN

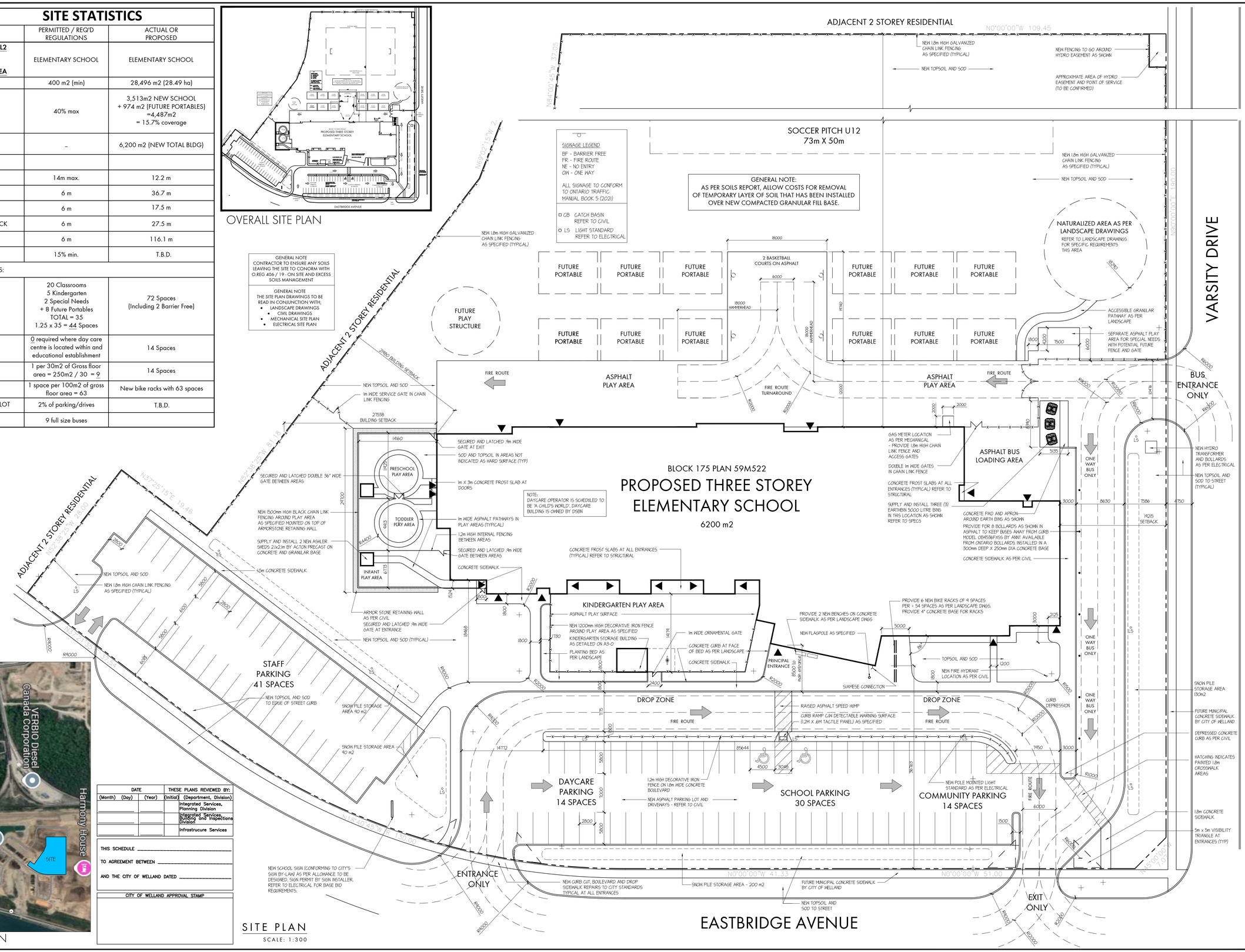
| DATE | | | THESE PLANS REVIEWED BY: | |
|---|---|---|---|---|
| (Month) | (Day) | (Year) | (initial) | (Department, Division) |
| | | | | Integrated Services, Planning Division |
| | | | | Integrated Services, Building and Inspections Division |
| | | | | Infrastrucure Services |

THIS SCHEDULE _____

TO AGREEMENT BETWEEN _____

AND THE CITY OF WELLAND DATED _____

CITY OF WELLAND APPROVAL STAMP




SITE PLAN

SCALE: 1:300

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| | | |
|---|---|---|
| 1. | Pre consultation | APR 10/25 |
| 2. | Site Plan Control | SEPT 19/25 |
| 3. | Issued for Permit | Nov 14/25 |
| 4. | Site Plan Control 2 | Nov 18/25 |
| 5. | Issued for Permit | Feb. 13/26 |
| 6. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE 8857


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905-688-6087
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DRAWING TITLE:

## Site Plan

SCALE: As Noted

DRAWN: SB

DATE: March 2025

PROJECT #: 2501

DRAWING #: A1-1

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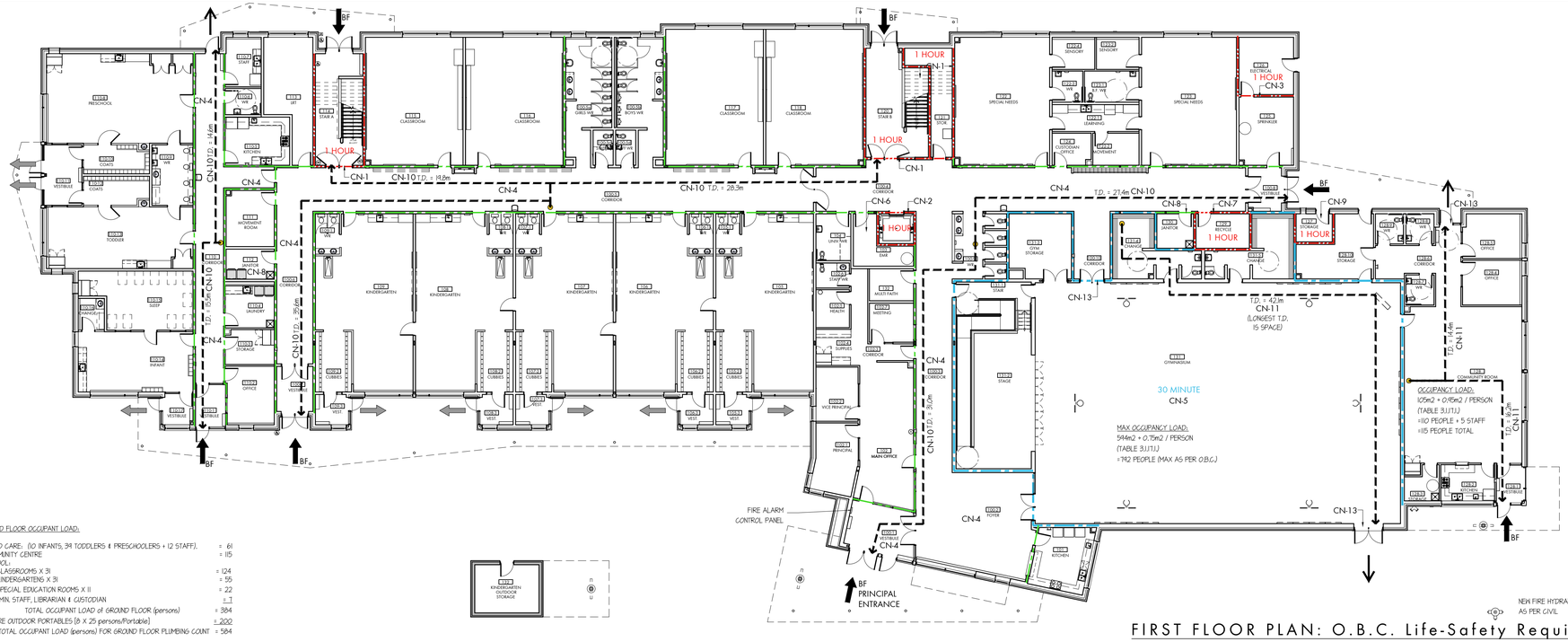



GROUND FLOOR OCCUPANT LOAD:

- CHILD CARE: (10 INFANTS, 34 TODDLERS & PRESCHOOLERS + 12 STAFF). = 61
- COMMUNITY CENTRE = 115
- SCHOOL:
  - 4 CLASSROOMS X 31 = 124
  - 5 KINDERGARTENS X 31 = 55
  - 2 SPECIAL EDUCATION ROOMS X 11 = 22
  - ADMIN. STAFF, LIBRARIAN & CUSTODIAN = 7

TOTAL OCCUPANT LOAD of GROUND FLOOR (persons) = 384

- FUTURE OUTDOOR PORTABLES (8 X 25 persons/Portable) = 200

TOTAL OCCUPANT LOAD (persons) FOR GROUND FLOOR PLUMBING COUNT = 584

## FIRST FLOOR PLAN: O.B.C. Life-Safety Requirements

SCALE: 1/16" = 1'-0"

## ONTARIO BUILDING CODE (OBC) LIFE-SAFETY CODE NOTES:

FIRE-RESISTANCE RATINGS:

CN-1 3.4.4.1 - FIRE SEPARATION OF EXITS:
- 1-HOUR FRR REQUIRED AROUND EXIT ENCLOSURES (AT REQUIRED EXITS)

CN-2 3.5.3.1 - VERTICAL TRANSPORTATION FIRE SEPARATIONS:
- 1-HOUR FRR REQUIRED AROUND ELEVATOR SHAFT

CN-3 3.6.2.1 - FIRE SEPARATION AROUND SERVICE ROOMS:
- 1-HOUR FRR REQUIRED AROUND SERVICE ROOM

CN-4 3.3.2.6 (3) - CORRIDORS USED BY THE PUBLIC IN ASSEMBLY OCCUPANCIES:
- 1-HOUR FRR REQUIRED AT CORRIDORS USED BY THE PUBLIC (OTHERWISE REQUIRED TO ACT AS FIRE SEPARATIONS) MAY BE WAIVED IF BUILDING IS SPRINKLERED, CORRIDOR WALLS THEREFORE ACT AS 0-HOUR FIRE SEPARATIONS

CN-5 3.3.2.2 (8) - FIRE SEPARATIONS IN ASSEMBLY OCCUPANCIES:
- 30 MINUTE [0.5 HOUR] FRR REQUIRED AROUND ROOMS WITH OCCUPANT LOAD > 200 PERSONS

CN-6 APPENDIX A- A-1.4.1.3. (1):
- ELEVATOR MACHINE ROOMS NOT CONSIDERED TO BE SERVICE ROOMS (OTHERWISE REQUIRING FIRE-RESISTANCE RATING)

CN-7 3.6.2.5. - STORAGE OF COMBUSTIBLE REFUSE AND RECYLCING:
- 1-HOUR FRR REQUIRED AROUND RECYLCLING ROOM

CN-8 3.3.1.22.- JANITOR ROOMS:
- 1-HOUR FRR REQUIRED AROUND JANITORIAL SUPPLY ROOMS WAIVED IF BUILDING IS SPRINKLERED, 0-HOUR FIRE SEPARATION REQUIRED

CN-9 3.3.6.4. (1) - COMBUSTIBLE LIQUID STORAGE:
- 1-HOUR FRR REQUIRED AROUND OUTDOOR STORAGE ROOMS TO ACCOMMODATE GAS-FUELED YARD MAINTENANCE ITEMS

TRAVEL DISTANCE:

CN-10 3.4.2.4 (2). - TRAVEL DISTANCE TO EXIT FROM DOOR:
- MAX. TRAVEL DISTANCE TO AT LEAST ONE EXIT MAY BE CALCULATED FROM THE DOOR OF A ROOM LEADING TO A CORRIDOR USED BY THE PUBLIC, PROVIDING THAT CORRIDOR IS SEPARATED FROM ADJACENT ROOMS BY A FIRE SEPARATION (SEE CN-4)

3.4.2.5. (1) (a). - MAX. TRAVEL DISTANCE TO EXIT:
- MAX. TRAVEL DISTANCE TO AT LEAST ONE EXIT NOT TO EXCEED 45m (147'-0")

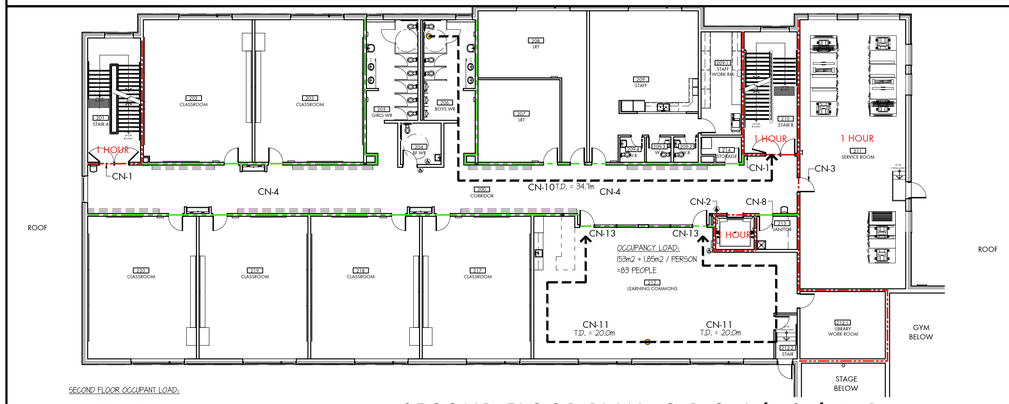
CN-11 3.3.1.6. (1). - TRAVEL DISTANCE WITHIN ROOMS:
- MAX. TRAVEL DISTANCE TO AT LEAST ONE EGRESS DOOR WITHIN A ROOM ACCOMMODATING MORE THAN 60 PEOPLE MUST NOT EXCEED 45m (AS PER 3.4.2.5)

SMOKE DAMPERS:

CN-12 3.1.8.4. (1) - SMOKE DAMPERS WAIVED:
- SMOKE DAMPERS WAIVED IN DUCTS LOCATED WITHIN/SERVING ONE FIRE COMPARTMENT

EGRESS DOORS:

CN-13 3.3.1.5 - EGRESS DOOR REQUIREMENTS:
(1) ROOMS WITH OCCUPANT LOAD > 60 PERSONS REQUIRE 2 EGRESS DOORS AND TRAVEL DISTANCE TO ONE EGRESS DOOR < 45 m
(2) DISTANCE BETWEEN EGRESS DOORS < 1/3 OF THE DIAGONAL DIMENSION OF THE ROOM.
IN LEARNING COMMONS (12):
- 1/3 OF 19.5m = 6.43m REQUIRED MIN. DISTANCE BETWEEN DOORS
- 6.1m DISTANCE BETWEEN DOORS PROVIDED
IN COMMUNITY ROOMS (20-4):
- 1/3 OF 23.47m = 7.75m REQUIRED MIN. DISTANCE BETWEEN DOORS
- 21.33m DISTANCE BETWEEN DOORS PROVIDED
IN GYMNASIUM (31):
- 1/3 OF 33.2m = 11.07m REQUIRED MIN. DISTANCE BETWEEN DOORS
- 26.8m DISTANCE BETWEEN DOORS PROVIDED



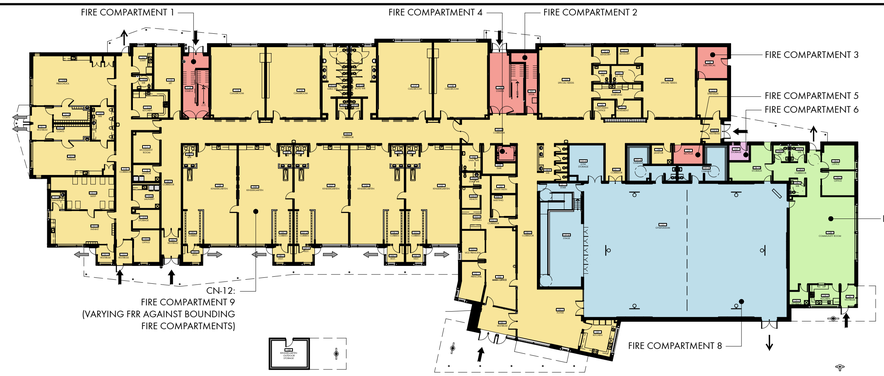

SECOND FLOOR OCCUPANT LOAD:

- 6 CLASSROOMS X 31 = 186
- 2 LRT ROOM X 10 = 20

TOTAL OCCUPANT LOAD of SECOND FLOOR (persons) = 206

## SECOND FLOOR PLAN: O.B.C. Life-Safety Requirements

SCALE: 1/16" = 1'-0"



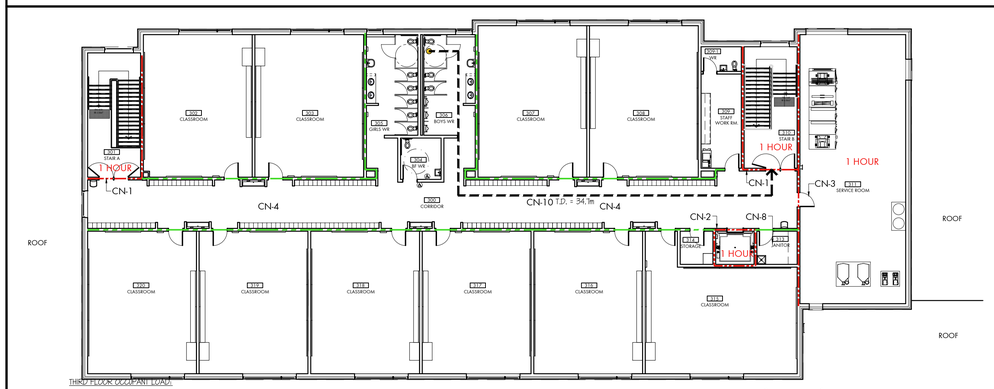

## FIRST FLOOR FIRE COMPARTMENTS

SCALE: N.T.S.

LEGEND:

- BF — BARRIER FREE ENTRANCE WITH BARRIER FREE OPERATORS
- EGRESS DOOR TO ENCLOSED PLAY YARD ACCESSIBLE FROM BUILDING INTERIOR
- EXIT DOOR
- 0 HR. FIRE RATED SEPARATION REQUIRED (SMOKE SEAL & WALLS CONTINUOUS TO UNDERSIDE OF STRUCTURE ABOVE c/w RELATED CAULKING AT ALL FULL PERIMETER OF ALL PENETRATIONS)
- 30 min. FIRE RATED SEPARATION (WALL CONTINUOUS TO UNDERSIDE OF STRUCTURE ABOVE & c/w FRR AS PER RELATED WALL KEYNS)
- 1 hr. FIRE RATED SEPARATION (WALL CONTINUOUS TO UNDERSIDE OF STRUCTURE ABOVE & c/w FRR AS PER RELATED WALL KEYNS)
- TRAVEL DISTANCE (T.D.) TO EXIT (3.4.2.5. - MAX TRAVEL DISTANCE = 45m)

NOTE:
FIRE SEPARATIONS & FIRE-RESISTANCE RATINGS INDICATED HERON REPRESENT MIN. CODE REQUIREMENTS; ACTUAL FIRE RESISTANCE RATINGS PROVIDED (AS SHOWN ON A2-1 TO A2-3) MAY EXCEED MIN. CODE STANDARDS



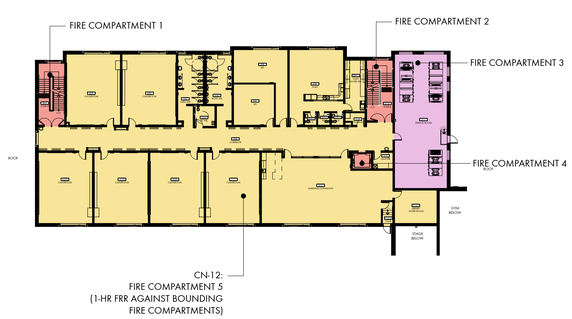

THIRD FLOOR OCCUPANT LOAD:

- 10 CLASSROOMS X 31 = 310

TOTAL OCCUPANT LOAD of SECOND FLOOR (persons) = 310

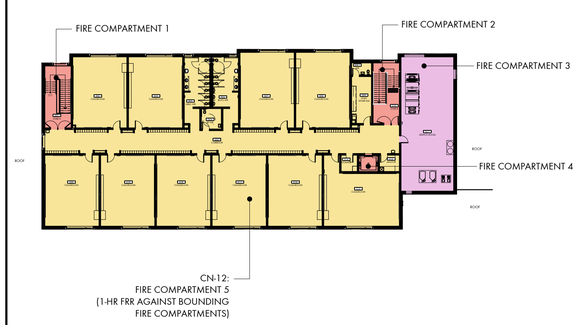
## THIRD FLOOR PLAN: O.B.C. Life-Safety Requirements

SCALE: 1/16" = 1'-0"




## SECOND FLOOR FIRE COMPARTMENTS

SCALE: N.T.S.




## THIRD FLOOR FIRE COMPARTMENTS

SCALE: N.T.S.

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|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

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www@whitelinearchitects.com

DRAWING TITLE:

**O.B.C. Plans**

SCALE: As Noted

DRAWN: SB

DATE: March 2025

PROJECT #: 2501

DRAWING #: A2-0

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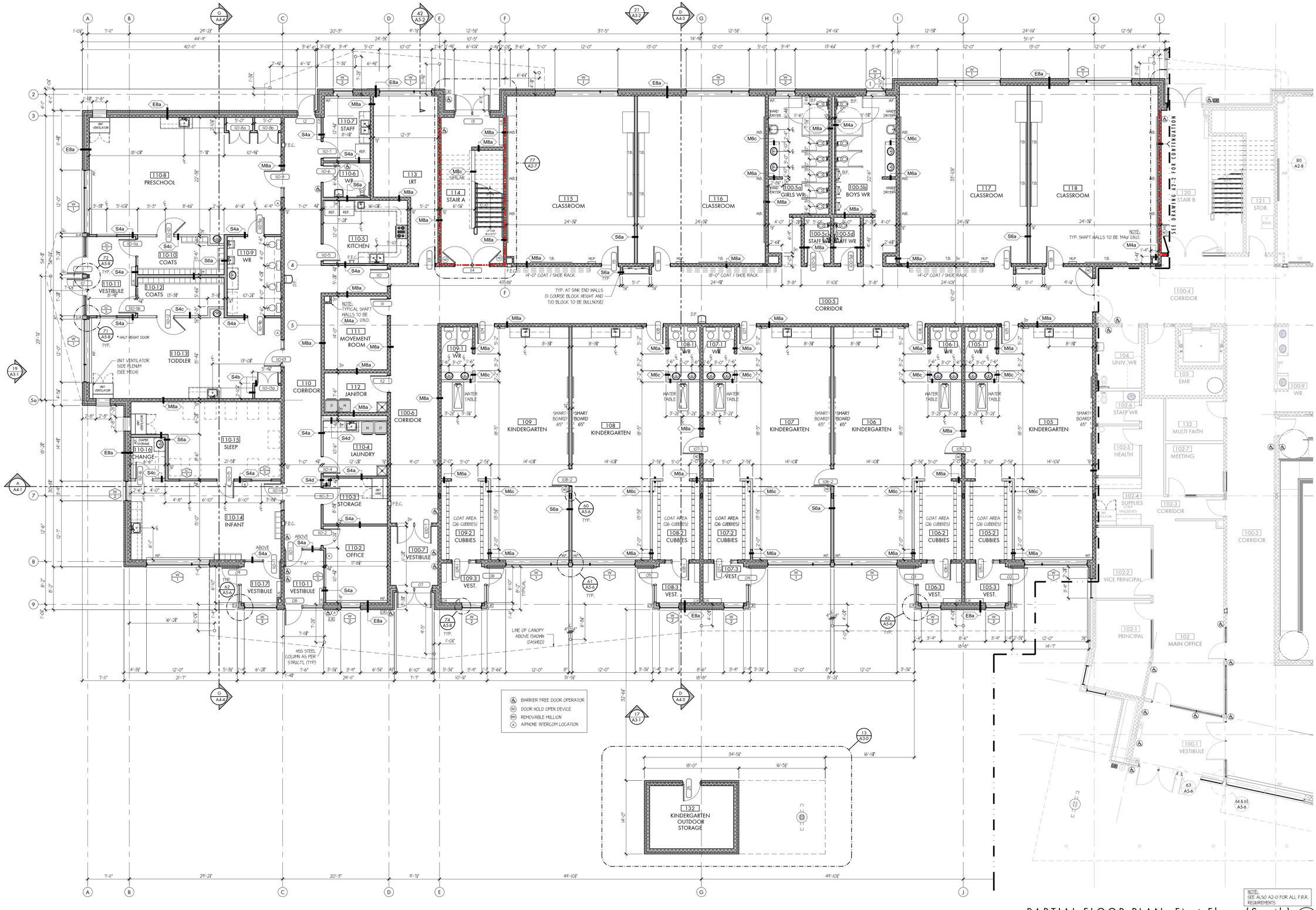


NOTE:
SEE ALSO A2-0 FOR ALL F.R.R. REQUIREMENTS

PARTIAL FLOOR PLAN: First Floor (South) 1 A2-1

SCALE: 1/8" = 1'-0"

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DRAWING TITLE:

## Partial First Floor Plan

SCALE: As Noted

DRAWN: SB

DATE: APRIL 2025

PROJECT #: 2501

DRAWING #: A2-1

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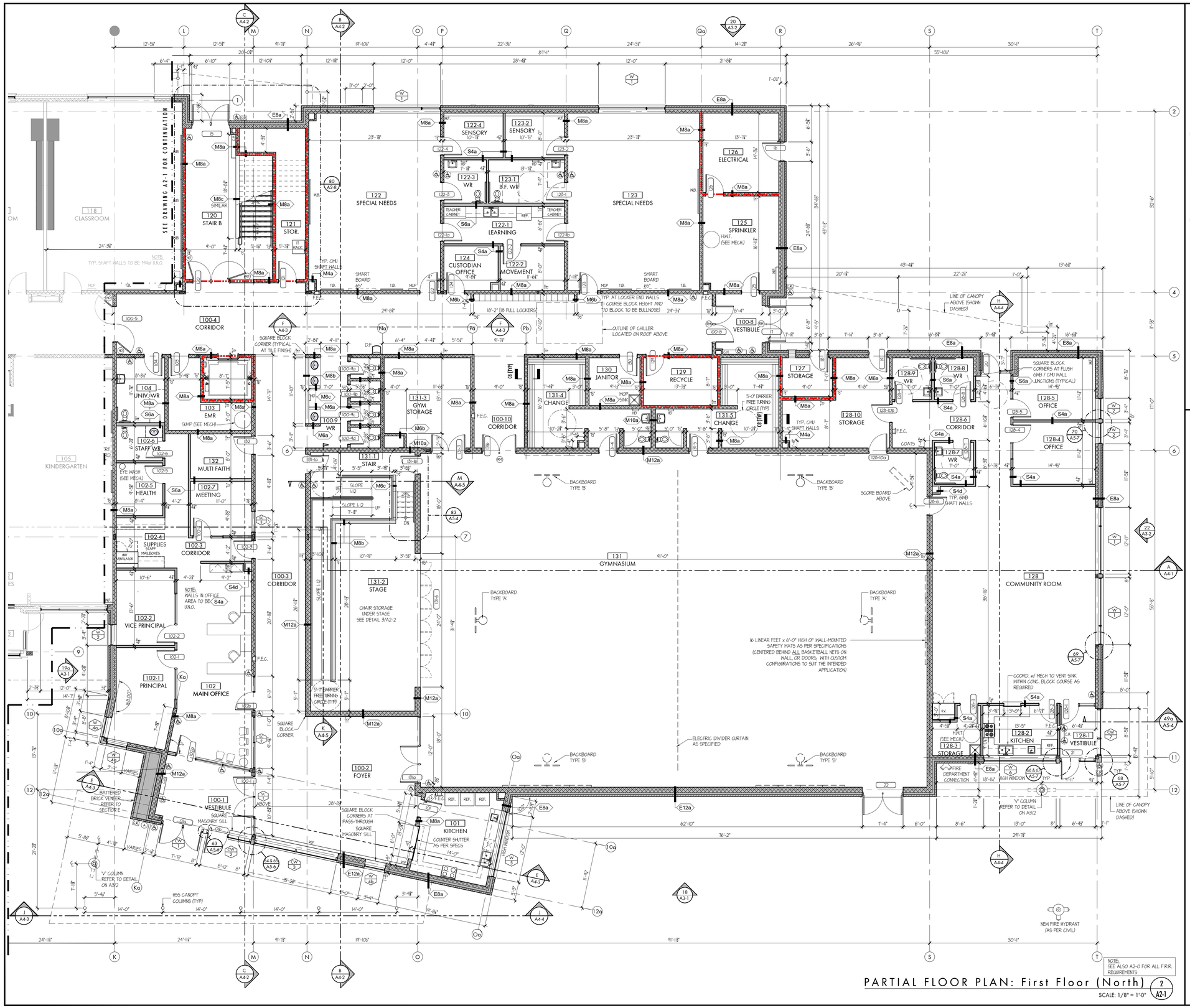


PARTIAL FLOOR PLAN: First Floor (North) 2 A2-1

SCALE: 1/8" = 1'-0"

NOTE:
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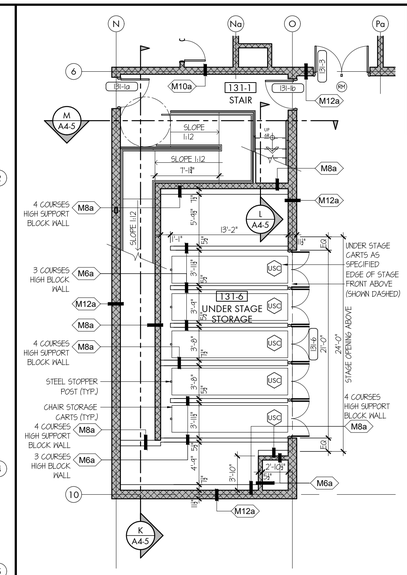
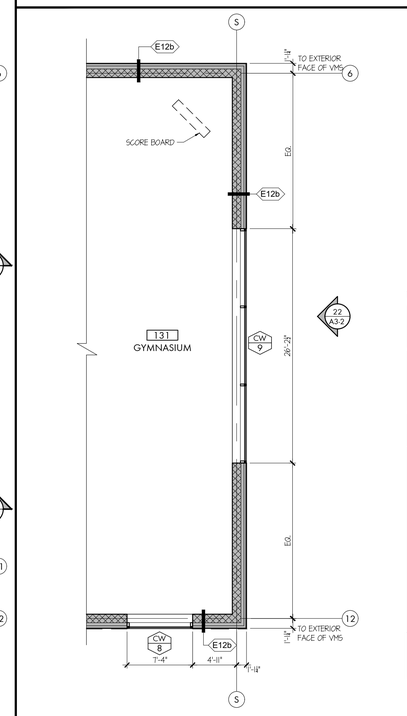



PARTIAL FLOOR PLAN: Understage Storage 3 A2-2

SCALE: 1/8" = 1'-0"




PARTIAL FLOOR PLAN: Gym High Windows 4 A2-2

SCALE: 1/8" = 1'-0"

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DRAWING TITLE:

## Partial First Floor Plan

SCALE: As Noted

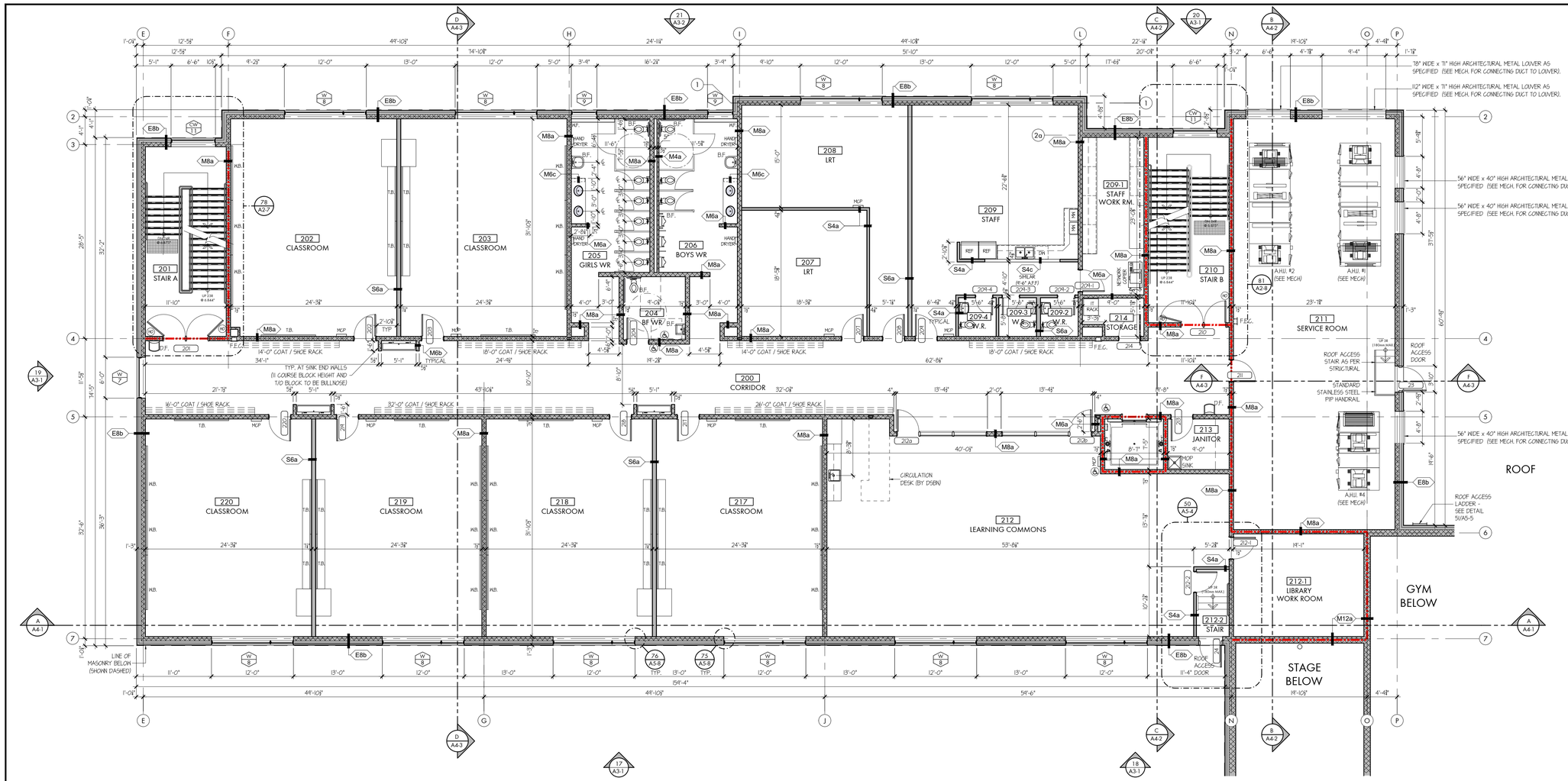
DRAWN: SB

DATE: APRIL 2025

PROJECT #: 2501

DRAWING #: A2-2

PLOTTED 3/31/2026 2:57 PM




NOTE:
SEE ALSO A2-0 FOR ALL F.R.R. REQUIREMENTS

## SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

5 / A2-0

## NEW WALL ASSEMBLIES:

**E12a** — EXTERIOR 12" BLOCK WALL WITH MASONRY VENEER
3 1/2" MASONRY VENEER (AS PER ELEVATIONS)
1" AIR SPACE
4" SPRAY APPLIED INSULATION (R21 min.)
11 1/2" CONCRETE BLOCK (CMU)

**E12b** — EXTERIOR 12" BLOCK WALL WITH SIDING
METAL SIDING (AS PER ELEVATIONS)
GALVANIZED Z-GIRT (HORIZONTALLY) @ 24" o/c
4" SPRAY APPLIED INSULATION (R21 min.)
11 1/2" CONCRETE BLOCK (CMU)

**E12c** — EXTERIOR 12" BLOCK WALL WITH STANDING SEAM METAL SIDING
STANDING SEAM METAL SIDING (AS PER ELEVATIONS)
AIR BARRIER
1/2" P.T. PLYWOOD
GALVANIZED Z-GIRT (HORIZONTALLY) @ 24" o/c
4" SPRAY APPLIED INSULATION (R21 min.)
11 1/2" CONCRETE BLOCK (CMU)

**E8a** — EXTERIOR 8" BLOCK WALL WITH MASONRY VENEER
3 1/2" MASONRY VENEER (AS PER ELEVATIONS)
1" AIR SPACE
4" SPRAY APPLIED INSULATION (R21 min.)
7 1/2" CONCRETE BLOCK (CMU)

**E8b** — EXTERIOR 8" BLOCK WALL WITH SIDING
METAL SIDING (AS PER ELEVATIONS)
GALVANIZED Z-GIRT (HORIZONTALLY) @ 24" o/c
4" SPRAY APPLIED INSULATION (R21 min)
7 1/2" CONCRETE BLOCK (CMU)

**E8c** — EXTERIOR 8" BLOCK WALL WITH STANDING SEAM METAL SIDING
STANDING SEAM METAL SIDING (AS PER ELEVATIONS)
AIR BARRIER
1/2" P.T. PLYWOOD
GALVANIZED Z-GIRT (HORIZONTALLY) @ 24" o/c
4" SPRAY APPLIED INSULATION (R21 min.)
7 1/2" CONCRETE BLOCK (CMU)

**E8d** — EXTERIOR 8" BLOCK w/ MASONRY VENEER *(Storage Shed)*
3 1/2" MASONRY VENEER (AS PER ELEVATIONS)
1" AIR SPACE
7 1/2" CONCRETE BLOCK (CMU)

**E8e** — EXTERIOR 8" BLOCK w/ STANDING SEAM METAL SIDING *(Storage Shed)*
METAL SIDING (AS PER ELEVATIONS)
AIR BARRIER AS PER SPECIFICATIONS
1/2" P.T. PLYWOOD
2 1/2" METAL STUDS @ 16" o/c
7 1/2" CONCRETE BLOCK (CMU)

**M12a** — 12" BLOCK WALL
11 1/2" CONCRETE BLOCK (CMU) FROM FLOOR LEVEL TO U/S OF DECK OR SLAB ABOVE
[30 min. FIRE SEPARATION AS PER ULC DESIGN No. U905. REFER TO FIRE SEPARATION DRAWING FOR RATING LOCATIONS. ENSURE PROPER SEAL OF ANY/ALL OPENINGS.]

**M10a** — 10" BLOCK WALL
9 1/2" CONCRETE BLOCK (CMU) FROM FLOOR LEVEL TO U/S OF DECK OR SLAB ABOVE
[1 HR. FIRE SEPARATION AS PER ULC DESIGN No. U905. REFER TO FIRE SEPARATION DRAWING FOR RATING LOCATIONS. ENSURE PROPER SEAL OF ANY/ALL OPENINGS.]

**M8a** — TYPICAL INTERIOR 8" BLOCK WALL
7 1/2" CONCRETE BLOCK (CMU) FROM FLOOR LEVEL TO U/S OF DECK OR SLAB ABOVE
[1 HR OR 30 min. FIRE SEPARATION AS PER ULC DESIGN No. U905. REFER TO FIRE SEPARATION DRAWING FOR RATING LOCATIONS. ENSURE PROPER SEAL OF ANY/ALL OPENINGS.]

**M8b** — 8" BLOCK WALL (HALF WALL)
7 1/2" CONCRETE BLOCK (CMU) FROM FLOOR LEVEL TO 42" ABOVE HIGHEST ADJACENT FLOOR c/w CAP AS PER DETAILS
[REFER TO STRUCTURE FOR ANY POSSIBLE LATERAL BRACING REQUIREMENT]

**M6a** — 6" BLOCK WALL
5 1/2" CONCRETE BLOCK (CMU) FROM FLOOR LEVEL TO 13" ABOVE HIGHEST ADJACENT CEILING (U.N.O.)
[REFER TO STRUCTURE FOR ANY POSSIBLE LATERAL BRACING REQUIREMENT]

**M6b** — TYPICAL INTERIOR 6" BLOCK WALL
5 1/2" CONCRETE BLOCK (CMU) FROM FLOOR LEVEL TO U/S OF DECK OR SLAB ABOVE
[1 HR OR 30 min. FIRE SEPARATION AS PER ULC DESIGN No. U905. REFER TO FIRE SEPARATION DRAWING FOR RATING LOCATIONS. ENSURE PROPER SEAL OF ANY/ALL OPENINGS.]

**M6c** — INTERIOR 6" BLOCK WALL *(Low Wall)*
5 1/2" CONCRETE BLOCK (CMU) FROM FLOOR LEVEL TO 4'-11 1/2" (T.S.B.C.) ABOVE FINISHED FLOOR LEVEL (U.N.O.)
[REFER TO STRUCTURE FOR ANY POSSIBLE LATERAL BRACING REQUIREMENT]

**M4a** — 4" BLOCK WALL
3 1/2" CONCRETE BLOCK (CMU) FROM FLOOR LEVEL TO 13" ABOVE HIGHEST ADJACENT CEILING (U.N.O.)
[REFER TO STRUCTURE FOR ANY POSSIBLE LATERAL BRACING REQUIREMENT]

**S6a** — 6" METAL STUD WALL (STC - 51 AS PER OBC SB-3 5.7.a)
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
6" METAL STUD FRAMING AT 16" O.C.
FILL w/ SOUND ATTENUATING INSULATION
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
[FROM FLOOR LEVEL TO U/S OF DECK OR SLAB ABOVE]

**S6b** — 6" METAL STUD WALL (LOW WALL)
PROTECTIVE WALL PANEL (PWP)
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
6" METAL STUD FRAMING AT 16" O.C.
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
PROTECTIVE WALL PANEL (PWP)
[FROM FLOOR LEVEL TO 3'-10" HEIGHT (U.N.O.)

**S4a** — 4" METAL STUD WALL
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
3 5/8" METAL STUD FRAMING AT 16" O.C.
FILL w/ SOUND ATTENUATING INSULATION (OPTIONAL)
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
[FROM FLOOR LEVEL TO THE U/S OF THE DECK OR SLAB ABOVE]

**S4b** — 4" METAL STUD WALL
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
3 5/8" METAL STUD FRAMING AT 16" O.C.
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
[STUD FRAMING FROM FLOOR LEVEL TO U/S OF DECK OR SLAB ABOVE AND 6"AB. FROM FLOOR LEVEL TO 13" ABOVE HIGHEST ADJACENT CEILING]

**S4c** — 4" METAL STUD HALF HEIGHT WALL
PROTECTIVE WALL PANEL (PWP)
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
3 5/8" METAL STUD FRAMING AT 16" O.C.
5/8" PLYWOOD
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
PROTECTIVE WALL PANEL (PWP)
[FROM FLOOR LEVEL TO 42" ABOVE FINISHED FLOOR
* ALLOW FOR EXTRA BLOCKING AT HALF DOOR]

**S4d** — 4" METAL STUD WALL
5/8" ABUSE RESISTANT GYPSUM WALL BOARD
3 5/8" METAL STUD FRAMING AT 16" O.C.
[STUD FRAMING FROM FLOOR LEVEL TO U/S OF DECK OR SLAB ABOVE AND 6"AB. FROM FLOOR LEVEL TO 13" ABOVE HIGHEST ADJACENT CEILING]

NOTES:
1) SIDING TO BE SET ON +/- 5" ADJUSTABLE Z-GIRTS (TO SUIT)
2) REFER TO DETAIL 18 ON DRAWING A5-2 FOR LOCATIONS WHERE BLOCK WALLS CANNOT EXTEND TO THE U/S OF THE DECK DUE TO STRUCTURAL INTERFERENCES.
3) REFER TO FIRE SEPARATION DRAWING ON A2-0 FOR RATING LOCATIONS.
4) ALL EXPOSED VERTICAL CORNERS OF CONCRETE BLOCK WALLS TO BE BULLNOSE U.N.O. AND AS OUTLINED IN SPECIFICATIONS.
5) STEEL STUD IN RATED ASSEMBLIES TO BE MIN. 0.53mm THICK.

## FLOOR ASSEMBLY SCHEDULE:

**F1** — TYPICAL 1ST FLOOR
FINISHED FLOOR (AS SPECIFIED)
REINFORCED CONCRETE SLAB (AS PER STRUCT.)
VAPOUR BARRIER AS SPECIFIED
COMPACTED GRANULAR FILL (AS PER STRUCT.)

**F2** — GYMNASIUM FLOOR
SPRING HARDWOOD FLOOR ASSEMBLY
REINFORCED CONCRETE SLAB (AS PER STRUCT.)
RECESSED SLAB AS PER ARCHITECTURAL PRODUCT SPECIFICATIONS (57+/-)
VAPOUR BARRIER AS SPECIFIED
COMPACTED GRANULAR FILL (AS PER STRUCT.)

**F3** — TYPICAL 2nd & 3rd FLOOR (1HR FIRE SEPARATION)
FINISHED FLOOR (AS SPECIFIED)
SELF LEVELLING TOPPING (AS SPECIFIED)
10" PRECAST CONC. SLAB (AS PER STRUCT.)

**F4** — TYPICAL STAGE FLOOR
FINISHED FLOOR (AS SPECIFIED)
SELF LEVELLING TOPPING (AS SPECIFIED)
8" PRECAST CONC. SLAB (AS PER STRUCT.)

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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
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DRAWING TITLE:
**Second Floor Plan**

SCALE:
As Noted

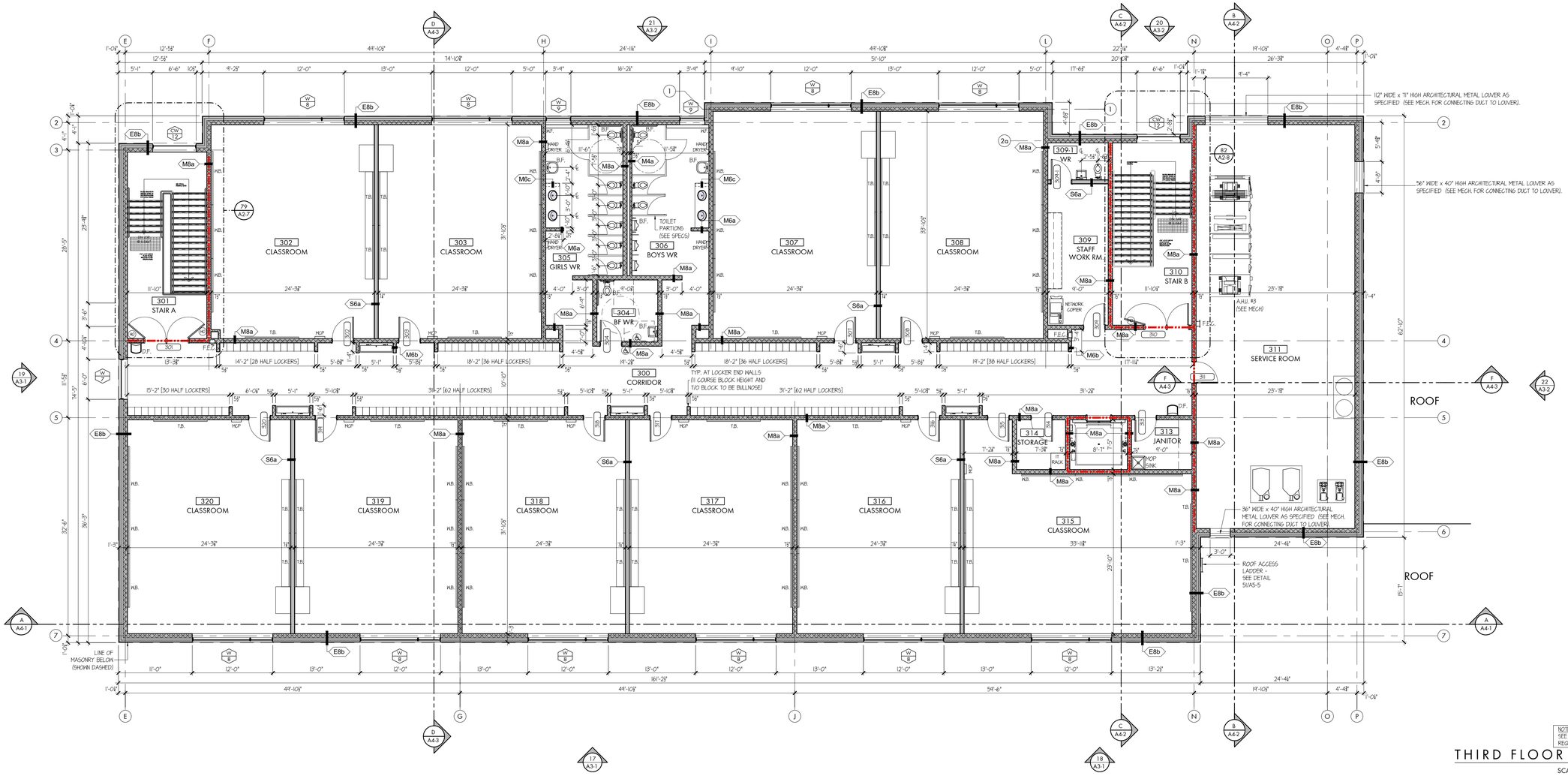
DRAWN:
SB

DATE:
APRIL 2025

PROJECT #:
2501

DRAWING #:
A2-3

PLOTTED 3/31/2026 2:59 PM




NOTE:
SEE ALSO A2-0 FOR ALL F.R.R. REQUIREMENTS

## THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"

6 A2-0

## PLAN ABBREVIATIONS / SYMBOLS:

| | |
|---|---|
| A.F.F. | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT (AS PER MECHL) |
| AML | ARCHL MECHL LOUVRE AS PER SPECS |
| ACM | ACOUSTICAL MASONRY UNIT |
| BC | BLOCK COURSES |
| BF | BARRIER FREE |
| C/C | CENTER TO CENTER |
| C.G. | CORNER GUARD |
| CH | CABINET HEATER |
| CL | CENTER LINE |
| CMU | CONCRETE MASONRY UNIT |
| C.R. | CARD READER |
| DF | DRINKING FOUNTAIN |
| F.E.C. | FIRE EXTINGUISHER CABINET |
| F.E.R. | FIRE RESISTANCE RATING |
| GB | GRAB BAR |
| G.I. | GREASE INTERCEPTOR |
| GWB | GYPSUM WALL BOARD |
| HO | HOLD OPEN |
| HSS | HOLLOW STRUCTURAL STEEL |
| HWT | HOT WATER TANK |
| I/S | INSIDE |
| MAX. | MAXIMUM |
| MCP | MASTER CONTROL PANEL |
| MIN. | MINIMUM |
| N.I.C. | NOT IN CONTRACT |
| O/A | OVERALL |
| O.B.C. | ONTARIO BUILDING CODE |
| o/c | ON CENTRE |
| O/S | OUTSIDE |
| O.S. | OVERFLOW SCUPPER |
| P/C | PRECAST CONCRETE SLAB |
| REF. | REFERENCE |
| REV. | REVERSED |
| R.D. | ROOF DRAIN |
| RM | REMOVABLE MULLION |
| SIM | SIMILAR |
| T.B | TACK BOARD |
| t/o | TOP OF |
| TYP. | TYPICAL |
| U.N.O. | UNLESS NOTED OTHERWISE |
| u/s | UNDERSIDE |
| W.B. | WHITE BOARD |
| WF | WALL FIN |

- CURTAIN WALL TAG
- INTERIOR GLAZING SCREEN TAG
- WINDOW TAG
- DETAIL/ELEVATION # DRAWING #
- INTERIOR ELEVATION #
- WALL TAG
- DOOR TAG
- B.F. DOOR OPERATOR
- INTERCOM/CAMERA
- CARD READER (AS PER ELECTRICAL)
- HOLD OPEN DEVICE (AS PER ELECTRICAL)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| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

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DRAWING TITLE:

**Third Floor Plan**

SCALE: As Noted

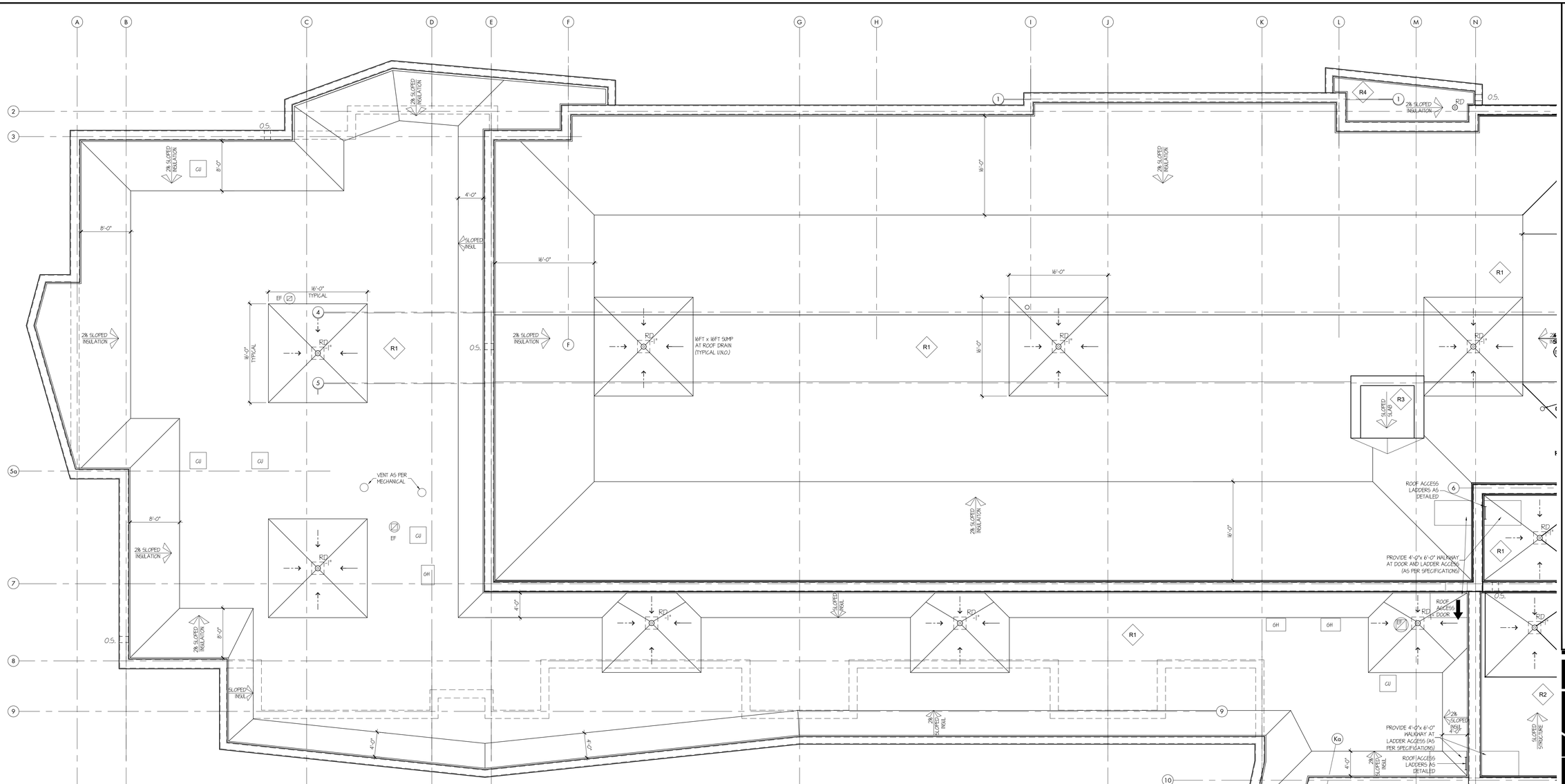
DRAWN: SB

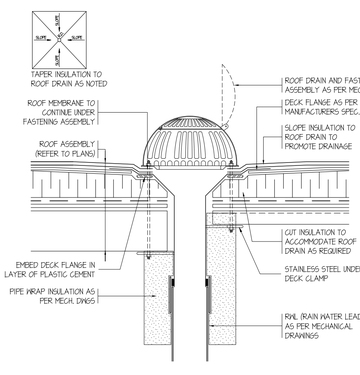
DATE: APRIL 2025

PROJECT #: 2501

DRAWING #: A2-4

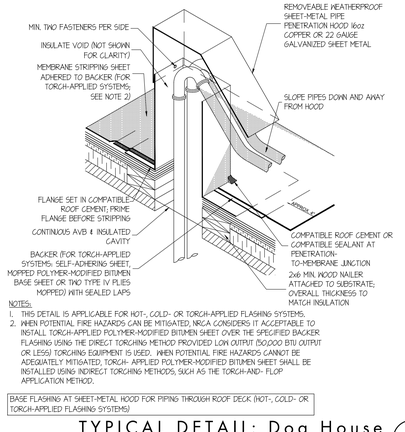
PLOTTED 3/31/2026 2:58 PM




## TYPICAL DETAIL: Roof Drain (7 / A2-5)

SCALE: 1 1/2" = 1'-0"

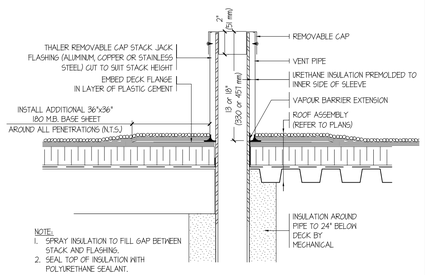



NOTES:
1. THIS DETAIL IS APPLICABLE FOR HOT-, COLD- OR TORCH-APPLIED FLASHING SYSTEMS.
2. WHEN POTENTIAL FIRE HAZARDS CAN BE MITIGATED, NRCA CONSIDERS IT ACCEPTABLE TO INSTALL TORCH-APPLIED POLYMER-MODIFIED BITUMEN SHEET OVER THE SPECIFIED BACKER FLASHING USING THE DIRECT TORCHING METHOD PROVIDED LOW OUTPUT (50,000 BTU OUTPUT OR LESS) TORCHING EQUIPMENT IS USED. WHEN POTENTIAL FIRE HAZARDS CANNOT BE ADEQUATELY MITIGATED, TORCH- APPLIED POLYMER-MODIFIED BITUMEN SHEET SHALL BE INSTALLED USING INDIRECT TORCHING METHODS, SUCH AS THE TORCH-AND- FLOP APPLICATION METHOD.

BASE FLASHING AT SHEET-METAL HOOD FOR PIPING THROUGH ROOF DECK (HOT-, COLD- OR TORCH-APPLIED FLASHING SYSTEMS)

## TYPICAL DETAIL: Dog House (8 / A2-6)

SCALE: 1 1/2" = 1'-0"




NOTE:
1. SPRAY INSULATION TO FILL GAP BETWEEN STACK AND FLASHING.
2. SEAL TOP OF INSULATION WITH POLYURETHANE SEALANT.

## TYPICAL DETAIL: Pipe Penetration (9 / A2-5)

SCALE: 1 1/2" = 1'-0"

## ROOF TYPE SCHEDULE:

**R1** — ROOF ASSEMBLY (B&R) ON PRECAST CONCRETE SLAB
FLOOD COAT AND BALLAST
3 PLY GLASS FELT MEMBRANE
1 PLY SBS MODIFIED BITUMEN MEMBRANE
ASPHALTIC COVERBOARD
TAPERED INSULATION WHERE SHOWN
MIN. 2 LAYERS POLY ISO INSULATION - 1" (R35 ci) TOTAL
MOP IN VAPOUR RETARDER
PRECAST CONCRETE SLAB

*NOTE ALL ROOFING ASSEMBLIES TO BE R1 UNLESS NOTED OTHERWISE

**R2** — ROOF ASSEMBLY (B&R) ADHERED STEEL DECK
FLOOD COAT AND BALLAST
3 PLY GLASS FELT MEMBRANE
1 PLY SBS MODIFIED BITUMEN MEMBRANE
ASPHALTIC COVERBOARD
TAPERED INSULATION WHERE SHOWN
MIN. 2 LAYERS POLY ISO INSULATION - 1" (R35 ci) TOTAL
MOP IN VAPOUR RETARDER
SHEATHING BOARD ADHERED TO DECK
STEEL ROOF DECK AS PER STRUCTURAL

**R3** — ROOF ASSEMBLY (SBS) ADHERED STEEL DECK
SBS MODIFIED BITUMEN CAPSHEET
1 PLY SBS MODIFIED BITUMEN MEMBRANE
ASPHALTIC COVERBOARD
TAPERED INSULATION WHERE SHOWN
MIN 2 LAYERS POLY ISO INSULATION - 1" (R35 ci) TOTAL
MOP IN VAPOUR BARRIER
SHEATHING BOARD ADHERED
STEEL ROOF DECK AS PER STRUCTURAL

**R4** — ROOF ASSEMBLY (SBS) MECHANICALLY FASTENED STEEL DECK
SBS MODIFIED BITUMEN CAPSHEET
1 PLY SBS MODIFIED BITUMEN MEMBRANE
ASPHALTIC COVERBOARD
TAPERED INSULATION WHERE SHOWN
MOP IN VAPOUR BARRIER
SHEATHING BOARD MECHANICALLY FASTENED
STEEL ROOF DECK AS PER STRUCTURAL

## ROOF PLAN (South)

SCALE: 1/8" = 1'-0"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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

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SEAL:

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DRAWING TITLE:

**Partial Roof Plan**

SCALE: As Noted

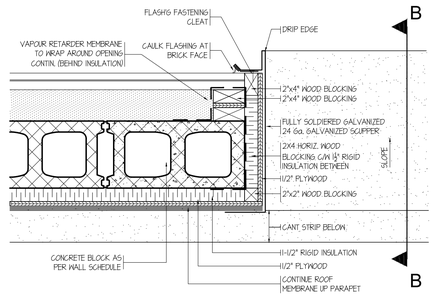
DRAWN: sb

DATE: December 2024

PROJECT #: 2501

DRAWING #: A2-5

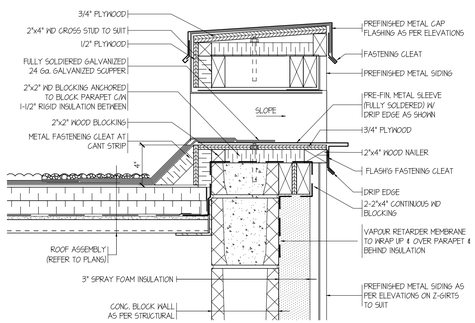
PLOTTED 3/31/2026 3:00 PM




PARAPET PLAN

## PLAN DETAIL: Overflow Scupper (10a / A2-5)

SCALE: 1 1/2" = 1'-0"




B - PARAPET SECTION

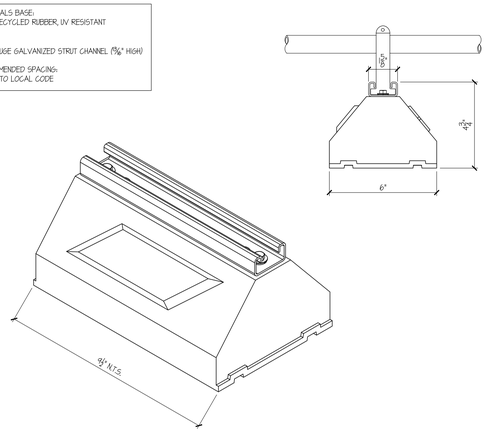
## SECTION DETAIL: Overflow Scupper (10b / A2-5)

SCALE: 1 1/2" = 1'-0"

MATERIALS BASE:
100% RECYCLED RUBBER, UV RESISTANT

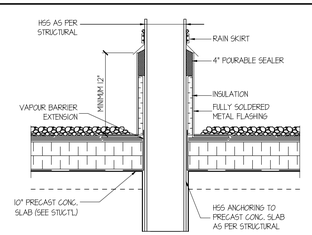
STRUT:
14 - GAUGE GALVANIZED STRUT CHANNEL (15/16" HIGH)

RECOMMENDED SPACING:
REFER TO LOCAL CODE



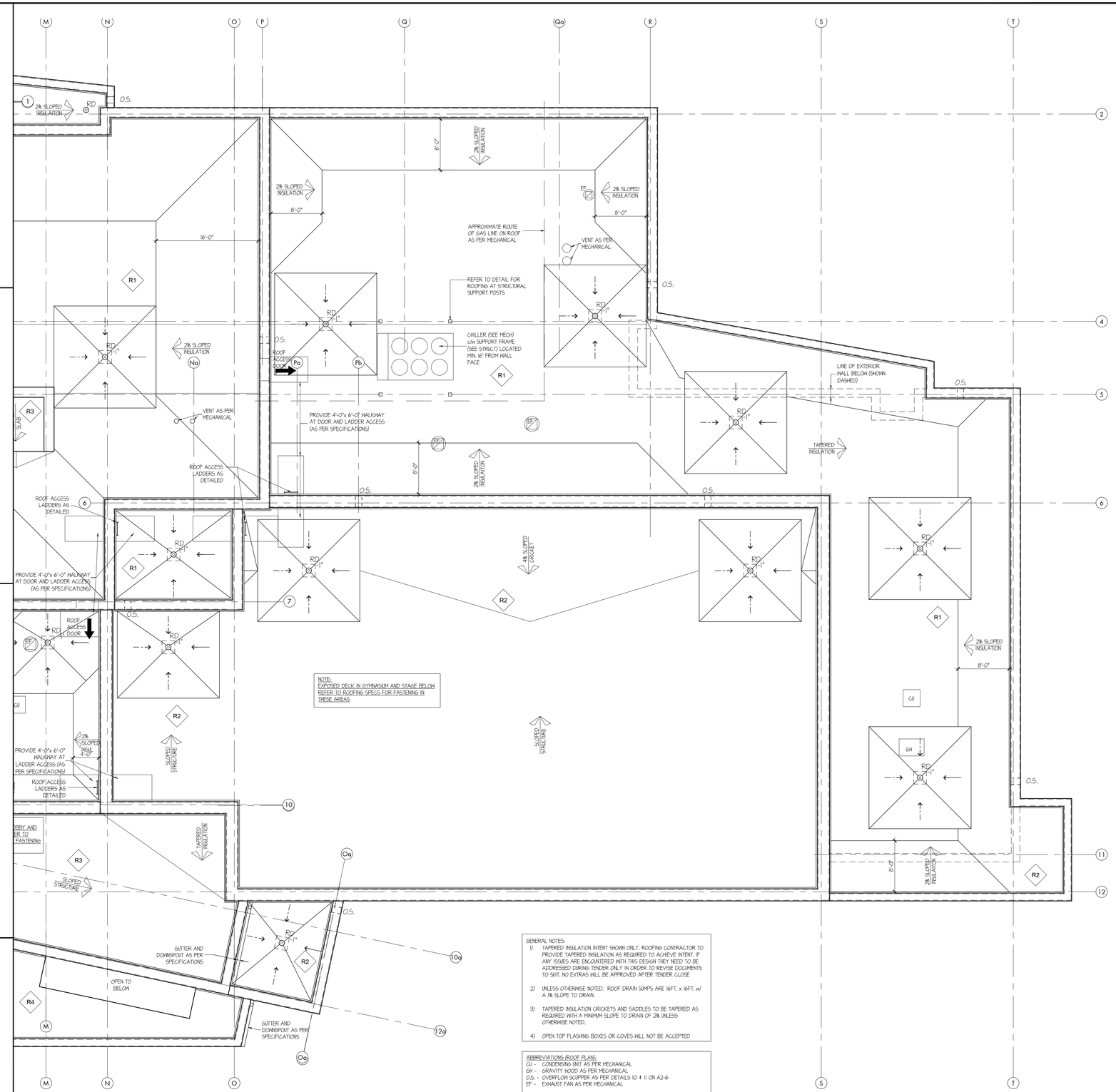

## SECTION DETAIL: Gas Line Support (11 / A2-5)

SCALE: 3" = 1'-0"




## TYPICAL DETAIL:HSS Penetration Flashing

SCALE: 3" = 1'-0"




GENERAL NOTES:

1) TAPERED INSULATION INTENT SHOWN ONLY. ROOFING CONTRACTOR TO PROVIDE TAPERED INSULATION AS REQUIRED TO ACHIEVE INTENT. IF ANY ISSUES ARE ENCOUNTERED WITH THIS DESIGN THEY NEED TO BE ADDRESSED DURING TENDER ONLY IN ORDER TO REVISE DOCUMENTS TO SUIT. NO EXTRAS WILL BE APPROVED AFTER TENDER CLOSE

2) UNLESS OTHERWISE NOTED. ROOF DRAIN SUMPS ARE 16FT. x 16FT. w/ A 1% SLOPE TO DRAIN.

3) TAPERED INSULATION CRICKETS AND SADDLES TO BE TAPERED AS REQUIRED WITH A MINIMUM SLOPE TO DRAIN OF 2% UNLESS OTHERWISE NOTED.

4) OPEN TOP FLASHING BOXES OR COVES WILL NOT BE ACCEPTED

ABBREVIATIONS (ROOF PLAN):
CU - CONDENSING UNIT AS PER MECHANICAL
GH - GRAVITY HOOD AS PER MECHANICAL
O.S. - OVERFLOW SCUPPER AS PER DETAILS 10 & 11 ON A2-6
EF - EXHAUST FAN AS PER MECHANICAL

## ROOF PLAN (North)

SCALE: 1/8" = 1'-0"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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8807


WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Partial Roof Plan**

SCALE: As Noted

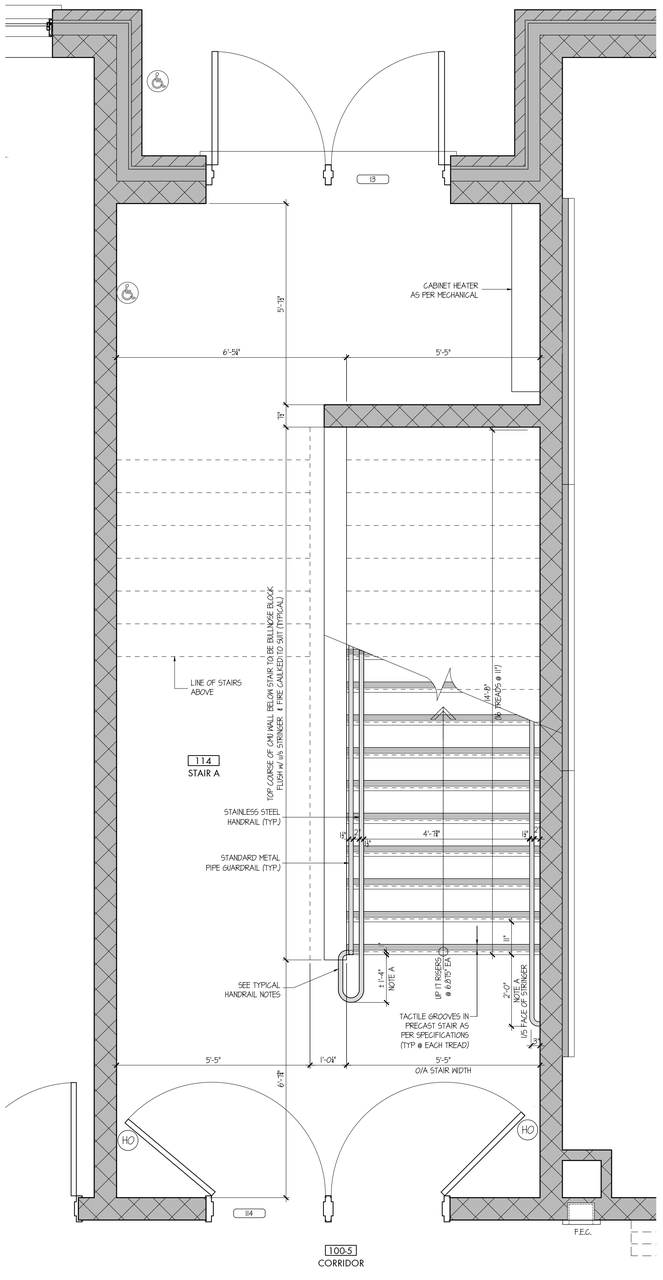
DRAWN: sb

DATE: December 2024

PROJECT #: 2501

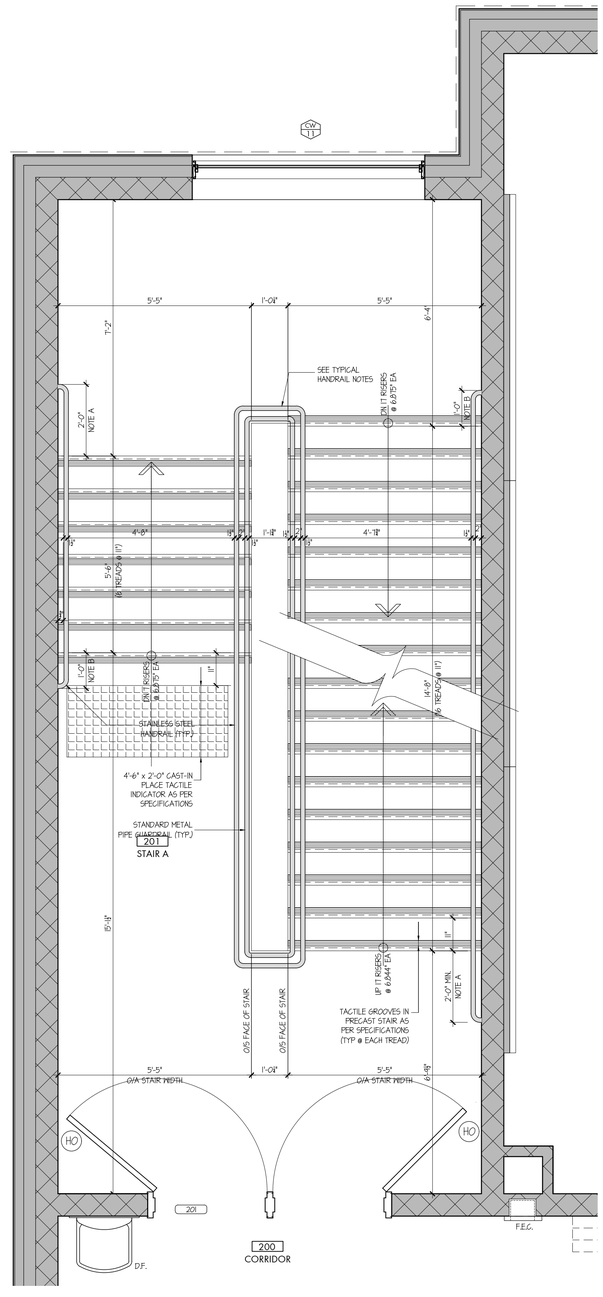
DRAWING #: A2-6

PLOTTED 3/31/2026 2:58 PM



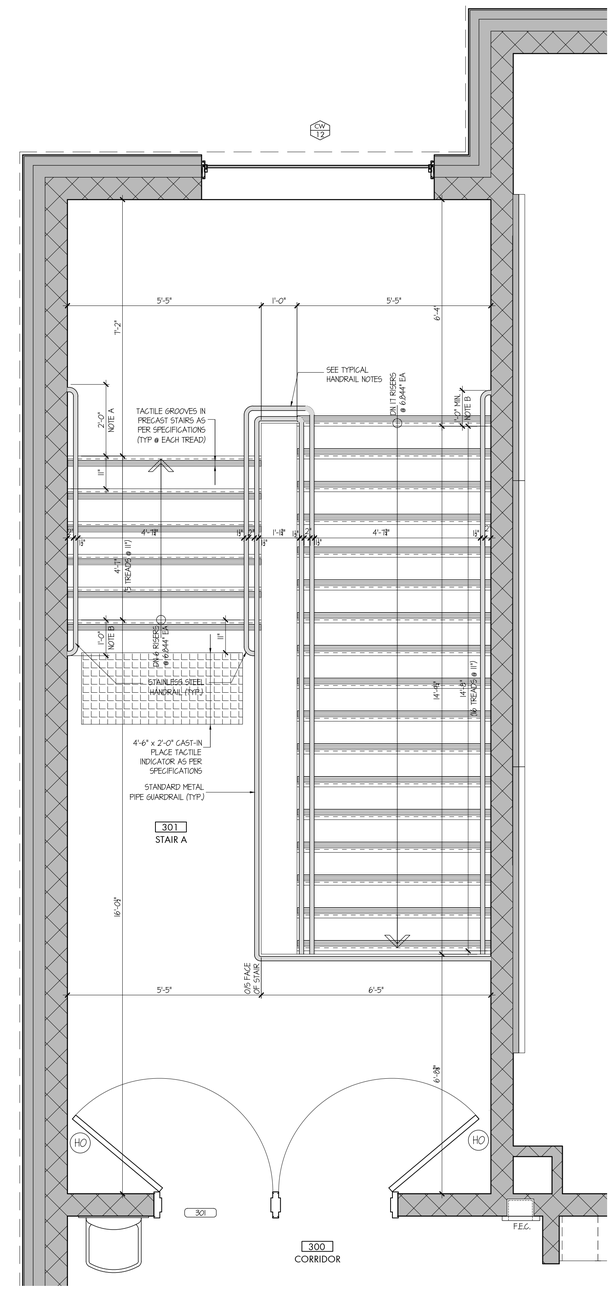

ENLARGED PLAN: Stair A (Ground Floor) 77 A2-1

SCALE: 1/2" = 1'-0"




ENLARGED PLAN: Stair A (Second Floor) 78 A2-3

SCALE: 1/2" = 1'-0"




ENLARGED PLAN: Stair A (Third Floor) 79 A2-4

SCALE: 1/2" = 1'-0"

## TYPICAL GUARD NOTES (At Stair Landings):

- ALL GUARDS TO BE 42" MIN HIGH ABOVE ADJACENT HORIZONTAL SURFACES OR 42" MEASURED VERTICALLY ABOVE A SLOPED TANGENT DRAWN THROUGH THE NOSINGS OF ADJACENT STAIRS
- ALL GUARDS TO HAVE PICKETS @ 4" o/c MAX TO PREVENT PASSAGE OF 4" SPHERE

## TYPICAL HANDRAIL NOTES (At Stairs):

- ALL HANDRAILS TO BE FABRICATED FROM CONTINUOUS 1.5" DIAMETER BRUSHED STAINLESS STEEL c/w MATCHING WALL BRACKETS @ 36" o/c AS PER DETAILS 55a/A5-5 & 55b/A5-5 (WHERE ANCHORED TO WALLS BEHIND)
- ALL HANDRAILS ON STAIRS & LANDINGS SHALL BE MOUNTED BETWEEN 34 1/4" AND 42" (MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL) ABOVE THE SURFACE OF THE LANDINGS OR ABOVE A STRAIGHT LINE TANGENT RUNNING THROUGH THE STAIR NOSING / EDGES
- NOTE A: AT BOTTOM OF STAIR FLIGHT, HANDRAIL TO EXTEND SLOPED (OVER A HORIZONTAL DIMENSION AT LEAST EQUAL TO ONE TREAD) FOLLOWED BY A MINIMUM OF 300mm HORIZONTAL (LEVEL) EXTENSIONS (TYPICAL THROUGHOUT), SEE DETAIL 54/A4-2
- NOTE B: AT TOP OF STAIR FLIGHT, HANDRAIL TO EXTEND HORIZONTALLY (LEVEL) AT 3'-0" AFF.F. FOR A MINIMUM DISTANCE OF 1'-0" BEYOND THE UPPERMOST STAIR NOSING / RISER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DRAWING TITLE:

## Enlarged Plans - Stair A

SCALE: As Noted

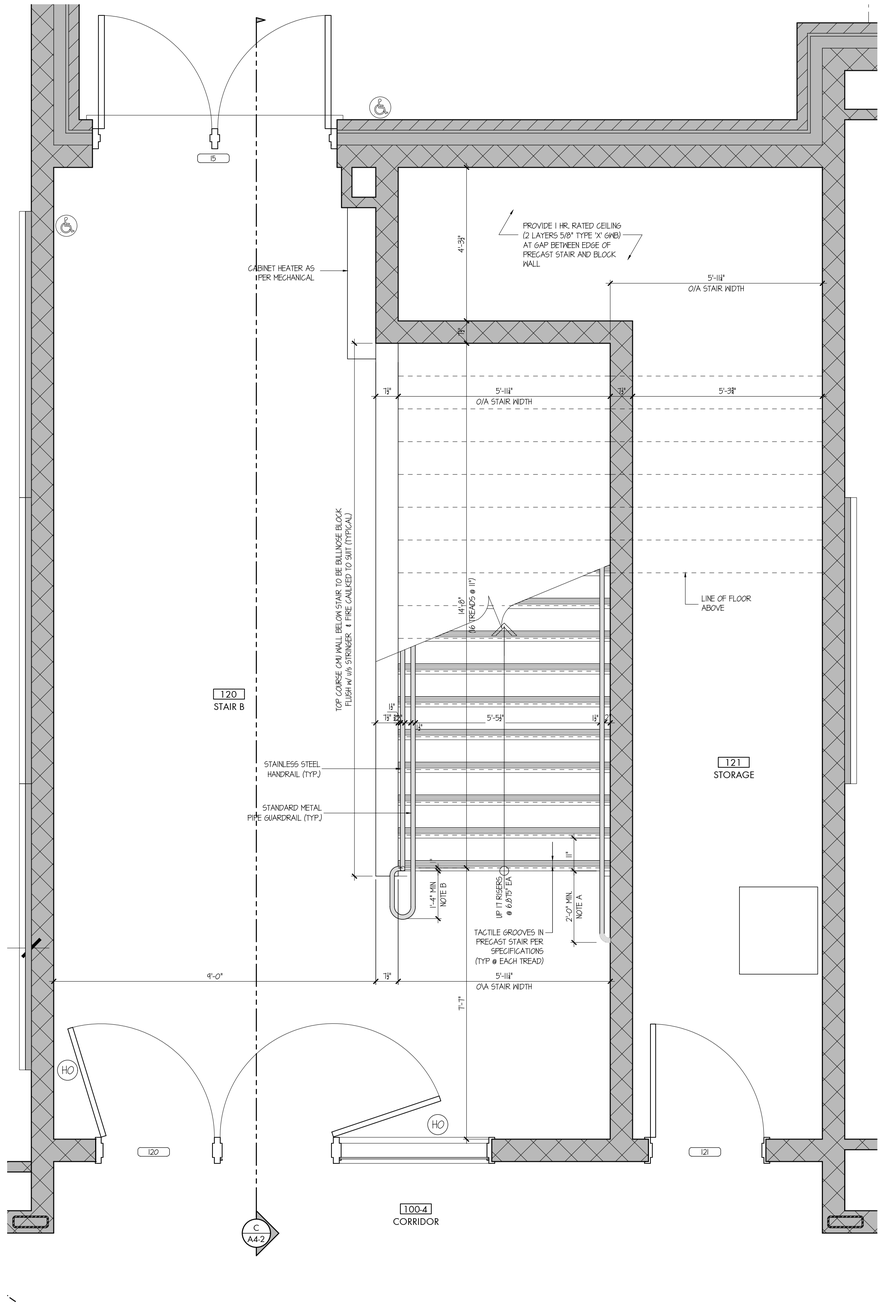
DRAWN: sb

DATE: December 2024

PROJECT #: 2501

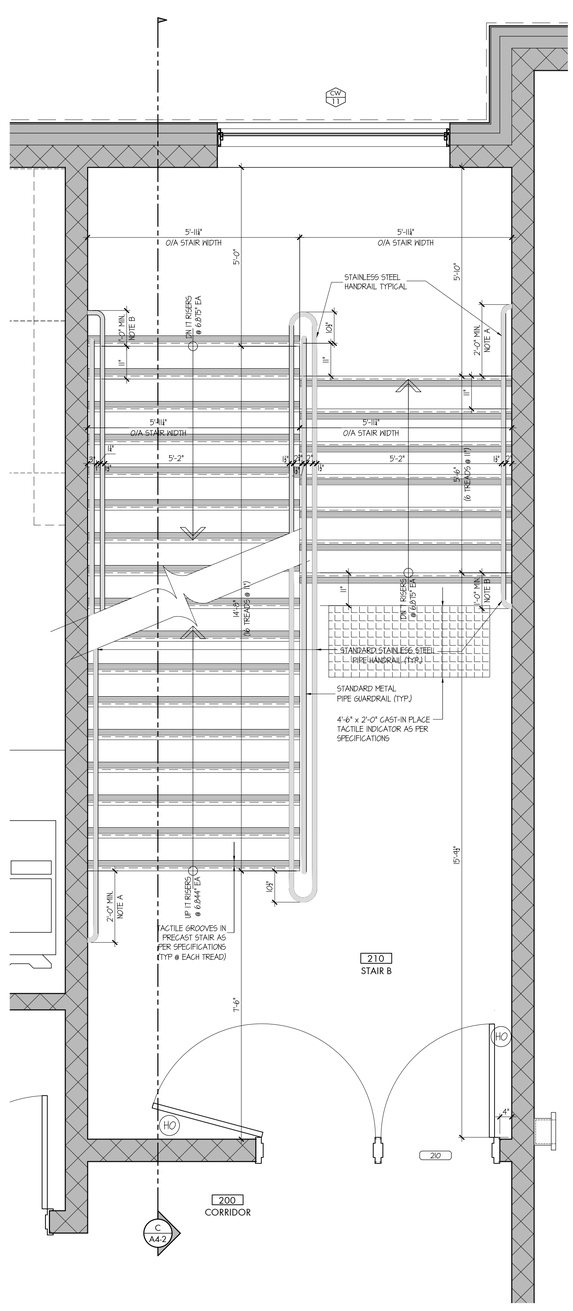
DRAWING #: A2-7

PLOTTED 3/31/2026 2:59 PM



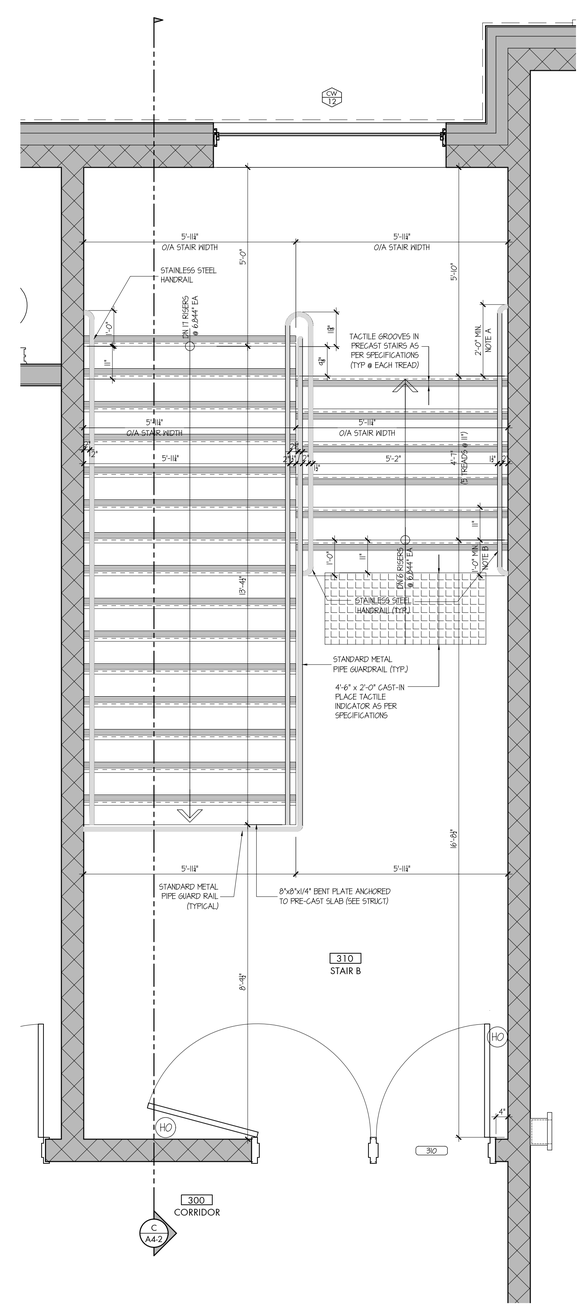

ENLARGED PLAN: Stair B (Ground Floor) 80 A2-2

SCALE: 1/2" = 1'-0"




ENLARGED PLAN: Stair B (Second Floor) 81 A2-3

SCALE: 1/2" = 1'-0"




ENLARGED PLAN: Stair B (Third Floor) 82 A2-4

SCALE: 1/2" = 1'-0"

## TYPICAL GUARD NOTES (At Stair Landings):

- ALL GUARDS TO BE 42" MIN HIGH ABOVE ADJACENT HORIZONTAL SURFACES OR 42" MEASURED VERTICALLY ABOVE A SLOPED TANGENT DRAWN THROUGH THE NOSINGS OF ADJACENT STAIRS
- ALL GUARDS TO HAVE PICKETS @ 4" o/c MAX TO PREVENT PASSAGE OF 4" SPHERE

## TYPICAL HANDRAIL NOTES (At Stairs):

- ALL HANDRAILS TO BE FABRICATED FROM CONTINUOUS 1.5" DIAMETER BRUSHED STAINLESS STEEL c/w MATCHING WALL BRACKETS @ 36" o/c AS PER DETAILS 55a/A5-5 & 55b/A5-5 (WHERE ANCHORED TO WALLS BEHIND)
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- NOTE B: AT TOP OF STAIR FLIGHT, HANDRAIL TO EXTEND HORIZONTALLY (LEVEL) AT 3'-0" AF.F.F. FOR A MINIMUM DISTANCE OF 1'-0" BEYOND THE UPPERMOST STAIR NOSING / RISER

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PROJECT:

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www@whitelinearchitects.com

DRAWING TITLE:

**Enlarged Plans - Stair B**

SCALE: As Noted

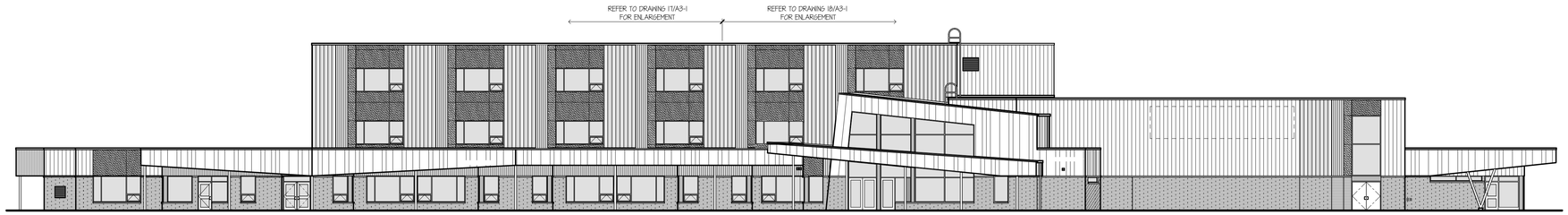
DRAWN: sb

DATE: December 2024

PROJECT #: 2501

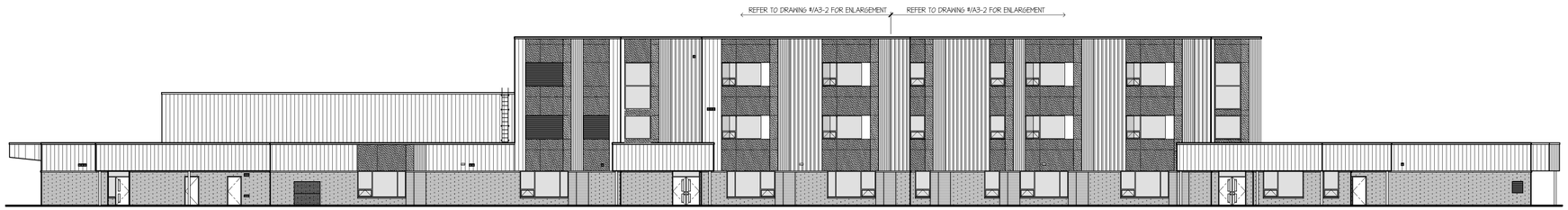
DRAWING #: A2-8

PLOTTED 3/31/2026 2:57 PM



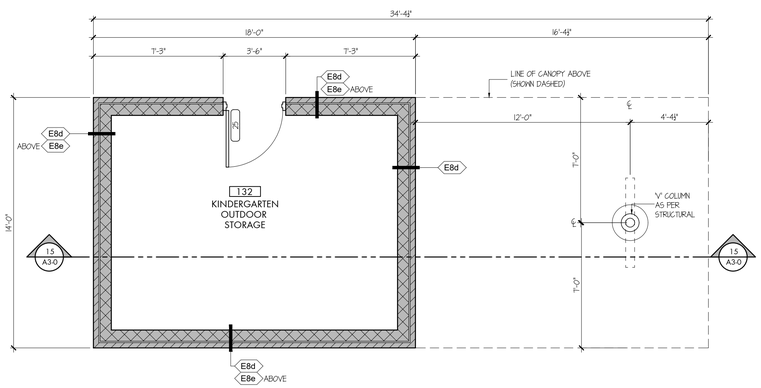

## OVERALL EAST ELEVATION

SCALE: 1/16" = 1'-0"



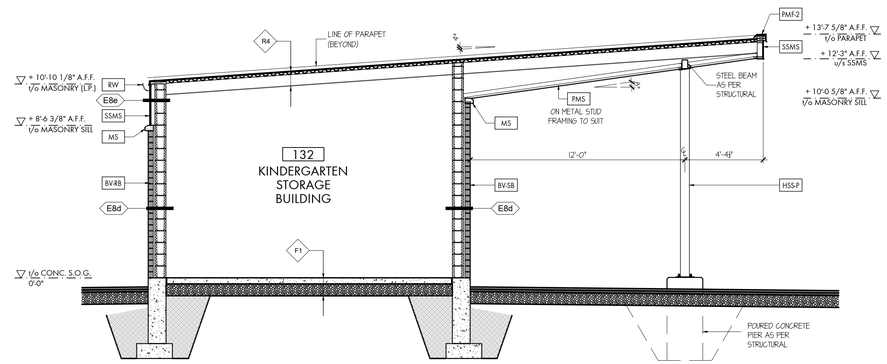

## OVERALL WEST ELEVATION

SCALE: 1/16" = 1'-0"



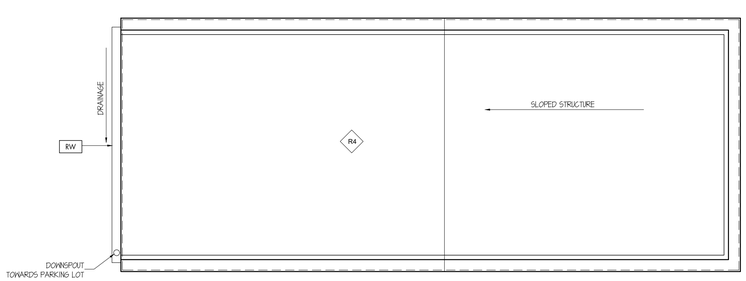

## KINDERGARTEN STORAGE BUILDING: Floor Plan (13 / A2-1)

SCALE: 1/4" = 1'-0"



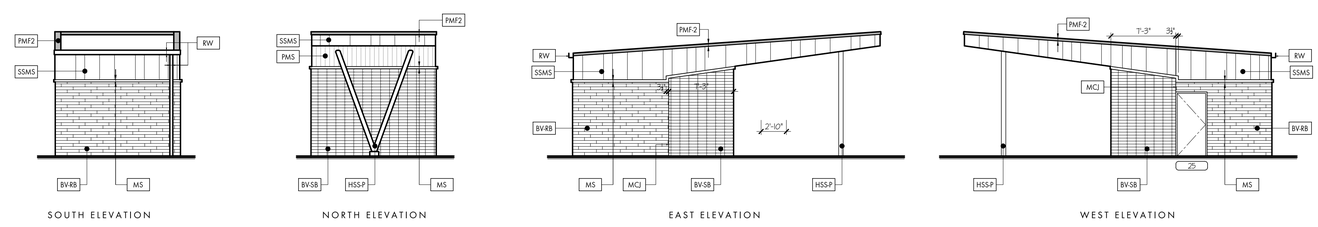

## KINDERGARTEN STORAGE BUILDING: Section (15 / A3-0)

SCALE: 1/4" = 1'-0"




## KINDERGARTEN STORAGE BUILDING: Roof Plan (14 / A3-0)

SCALE: 1/4" = 1'-0"




## KINDERGARTEN STORAGE BUILDING: Elevations (16 / A3-0)

SCALE: 1/8" = 1'-0"

# EXTERIOR BUILDING MATERIAL KEYING

## PRE-FINISHED METAL ITEMS:

**ACF** — ALUMINUM CAP FLASHING:
1.0mm THICK BREAK-SHAP ALUMINUM CAP FLASHING (BY WINDOW SUPPLIER) PREFINISHED IN PPG DURANAR XL COLOUR #UG106T07XL 'SILVER SHADOW' (TO MATCH ADJACENT WINDOWS)

**ACP-1** — ALUMINUM COMPOSITE PANEL 1 (AT WINDOWS & DOORS AS SHOWN):
ALUMINUM COMPOSITE PANEL SYSTEM (AS PER SPECIFICATIONS) COLOUR TO BE REYNOBOND DESIGN LINE 'FRENCH WALNUT'; ENSURE THAT THE VISUAL PATTERN/GRAIN ON ALL PANELS RUNS VERTICALLY THROUGHOUT; JOINT LOCATIONS BETWEEN PANELS WHERE SHOWN

**ACP-2** — ACP-2 ALUMINUM COMPOSITE PANEL 2 (VERTICAL ACCENTS BESIDE ACP-1):
REYNOBOND DESIGN LINE 'TENDER OAK'; ENSURE THAT THE VISUAL PATTERN/GRAIN ON ALL PANELS RUNS VERTICALLY THROUGHOUT; JOINT LOCATIONS BETWEEN PANELS WHERE SHOWN

**PMF-1** — PREFINISHED METAL FLASHING 1 (ABOVE ACP & VMS):
BREAKSHAPE METAL FLASHING TO BE ASHWAY PRE-FINISHED METAL COIL STOCK IN COLOUR GC 11078 LIGHT PEWTER

**PMF-2** — PREFINISHED METAL FLASHING 2 (ABOVE SSMS):
BREAKSHAPE METAL FLASHING TO BE ASHWAY PRE-FINISHED METAL COIL STOCK IN COLOUR GC 11080 BRIGHT SILVER

**PMS** — PREFINISHED METAL SOFFIT:
5 1/4" X 1/4" DISTINCTION METAL SOFFIT (AS PER SPECIFICATIONS) AS MANUFACTURED BY METAL UNIQ IN WOOD SHADE SERIES COLOUR #TT3 CEDARWOOD

**RW** — RAINWARE:
METAL EAVES - TROUGH/GUTTERS c/w DOWNSPOUTS AND ALL RELATED ACCESSORIES TO BE ASHWAY 1500 SERIES (AS PER SPECIFICATIONS) IN COLOUR GC11080 BRIGHT SILVER

**SSMS** — STANDING SEAM METAL SIDING:
ASHWAY AR-39 STANDING SEAM METAL SIDING (WITH 1.5" ROLLED DEEP INTERLOCKED BATTENS AND 3 VARYING PANEL WIDTHS (AS INDICATED) AS PER SPECIFICATIONS IN COLOUR GC 11080 BRIGHT SILVER; PRODUCT TO BE INSTALLED IN PATTERN REPEAT SPECIFIED AND POSITIONED ON BUILDING ELEVATIONS AS SHOWN ON DRAWINGS

**VMS-1** — VERTICAL METAL SIDING:
1.5" DEEP X 12" WIDE ASHWAY HF-6NF INTERLOCKING METAL SIDING (AS PER SPECIFICATIONS) PREFINISHED IN COLOUR GQ 18-102B NATURAL ZINC

**VMS-2** — VERTICAL METAL SIDING:
1.5" DEEP X 12" WIDE ASHWAY HF-8F INTERLOCKING METAL SIDING (AS PER SPECIFICATIONS) PREFINISHED IN COLOUR GQ 11078 LIGHT PEWTER

**VMS-3** — VERTICAL METAL SIDING:
1.5" DEEP X 12" WIDE ASHWAY HF-11F INTERLOCKING METAL SIDING (AS PER SPECIFICATIONS) PREFINISHED IN COLOUR GQ 28695 CAMBRIDGE WHITE

**VMST** — VERTICAL METAL SIDING TRIM:
± 2" HIGH CONTINUOUS HORIZONTAL TRIM IN COLOUR #TT0 DESERT TO MATCH VERTICAL METAL SIDING

## MASONRY ITEMS:

**BV** — BRICK VENEER:
BRICK VENEER TO BE BRAMPTON BRICK 'RAVEN' IN METRIC JUMBO SIZE (3 1/2" X 3 1/2" X 11 1/2") IN THE FOLLOWING INSTALLATION PATTERNS:

- BV-RB: BRICK VENEER IN STANDARD RUNNING BOND PATTERN
- BV-SB: BRICK VENEER STACK BOND

**MCJ** — MASONRY CONTROL JOINT:
CONTINUOUS MASONRY CONTROL JOINT C/W CAULKING TO MATCH ADJACENT MASONRY VENEERS; MASON TO COORDINATE MCJ LOCATIONS WITH ARCHITECT IF DIFFERING FROM THOSE SHOWN HEREON

**MS** — MASONRY SILL:
40 mm HIGH x 140 mm DEEP X 590 mm LONG ARRISCRAFT RENAISSANCE 'SLOPED SILL/WATERTABLE STONE' IN COLOUR 'DRIFTWOOD'; MORTAR COLOUR IN VERTICAL HEAD JOINTS (BETWEEN SILL PIECES) TO BE PIGMENTED TO MATCH SILL COLOUR

## MISCELLANEOUS MATERIALS & ITEMS

**AML** — ARCHITECTURAL METAL LOUVRE (AS PER SPECIFICATIONS)

**FDC** — FIRE DEPARTMENT CONNECTION:
(AS PER MECHANICAL DRAWINGS)

**HSS-P** — HOLLOW STRUCTURAL STEEL POST:
CIRCULAR HOLLOW STRUCTURAL STEEL POST (WITH CONCEALED ANCHORING AS PER STRUCTURAL) FINISHED AS PER SPECIFICATIONS

**ML** — METAL LOUVRE:
METAL HVAC LOUVRE (AS PER MECHANICAL); LOUVRE TO BE FACTORY-PRIMED FOR PAINT FINISH IN ARCHITECT-SELECTED COLOUR (TYPICAL)

**RAL** — ROOF ACCESS LADDER
(AS PER DETAIL 5/A5-5)

**WL** — WALL-MOUNTED LUMINAIRE:
WALL-MOUNTED LUMINAIRE (AS PER ELECTRICAL) IN MOUNTING HEIGHTS AND LOCATIONS AS PER ARCHITECTURAL

**HMD** — HOLLOW METAL DOOR:
HOLLOW METAL DOOR, FRAME AND SURROUNDING SIDELIGHTS (AS APPLICABLE) AS PER SPECIFICATIONS AND RELATED SCHEDULES

## WINDOWS & DOORS :

**CW #** — CURTAIN WALL - #:
PRE-FINISHED THERMALLY BROKEN 6" DEEP ALUMINUM CURTAIN WALL SYSTEM WITH INSULATED VISION GLASS AND SPANDREL GLASS PANES, OPERABLE VENTING UNITS (AWNING OR SLIDERS AS INDICATED) AND MAN DOORS (WHERE APPLICABLE) ALL AS PER SPECIFICATIONS AND RELATED SCHEDULES

**W #** — WINDOW - #:
PRE-FINISHED THERMALLY BROKEN 6" DEEP ALUMINUM WINDOW WALL WITH INSULATED VISION GLASS AND OPERABLE VENTING UNITS (WHERE INDICATED) ALL AS PER SPECIFICATIONS AND RELATED SCHEDULES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DRAWING TITLE:

**Overall East & West Elevations Kindergarten Bldg and Keying**

SCALE: As Noted

DRAWN: DWG

DATE: March 2025

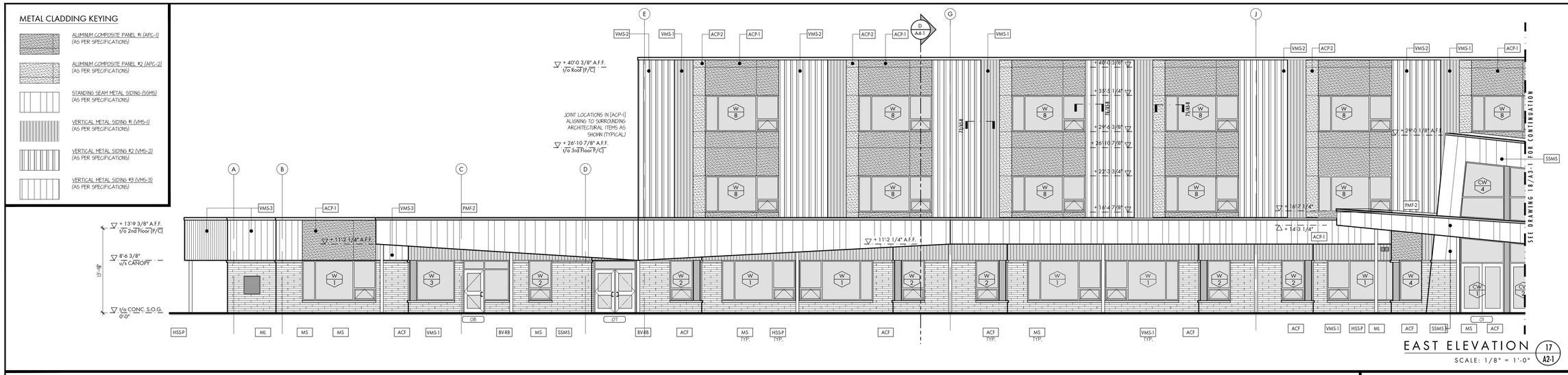
PROJECT #: 2501

DRAWING #: A3-0

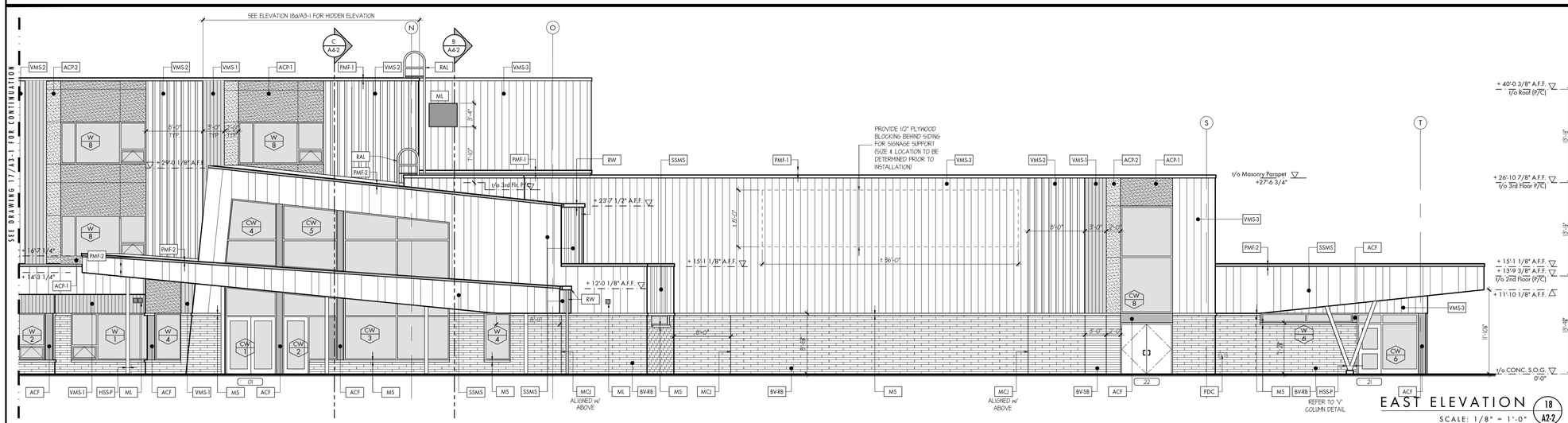
PLOTTED 3/31/2026 2:59 PM

## METAL CLADDING KEYING

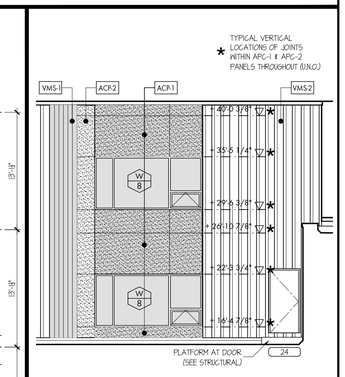
- ALUMINUM COMPOSITE PANEL #1 (ARC-1) (AS PER SPECIFICATIONS)
- ALUMINUM COMPOSITE PANEL #2 (ARC-2) (AS PER SPECIFICATIONS)
- STANDING SEAM METAL SIDING (SSMS) (AS PER SPECIFICATIONS)
- VERTICAL METAL SIDING #1 (VMS-1) (AS PER SPECIFICATIONS)
- VERTICAL METAL SIDING #2 (VMS-2) (AS PER SPECIFICATIONS)
- VERTICAL METAL SIDING #3 (VMS-3) (AS PER SPECIFICATIONS)



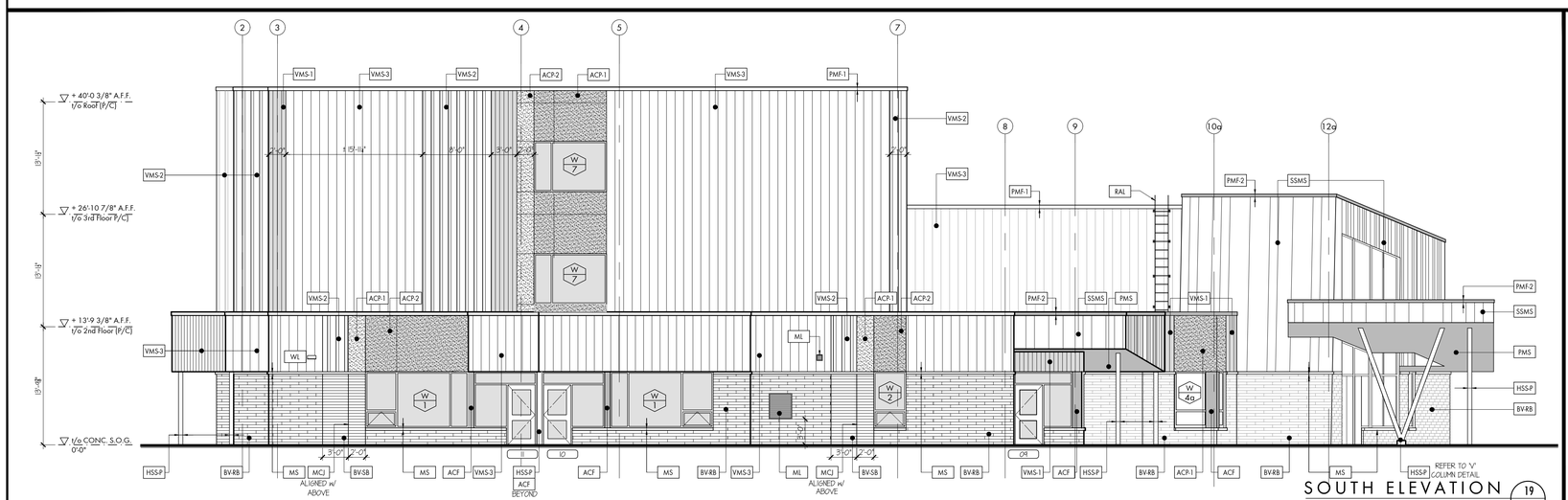

EAST ELEVATION 17 A2-1
SCALE: 1/8" = 1'-0"



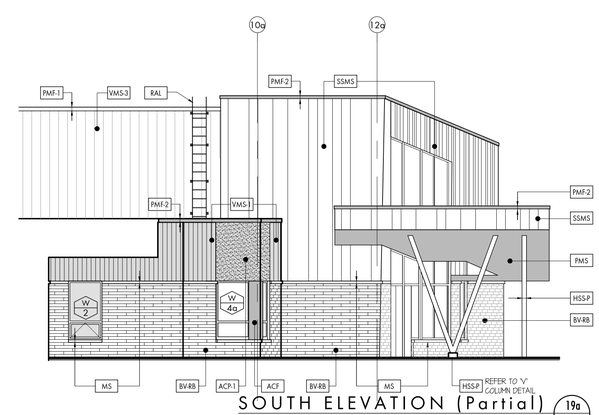

EAST ELEVATION 18 A2-2
SCALE: 1/8" = 1'-0"




EAST ELEVATION 18a A2-2
SCALE: 1/8" = 1'-0"




SOUTH ELEVATION 19 A2-1
SCALE: 1/8" = 1'-0"




SOUTH ELEVATION (Partial) 19a A2-1
SCALE: 1/8" = 1'-0"

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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857

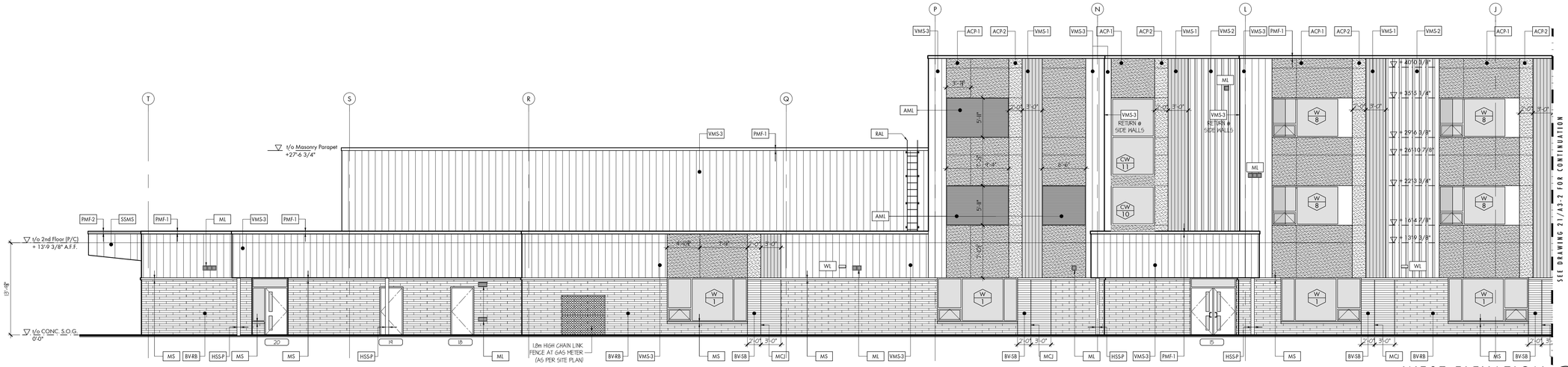
WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com

DRAWING TITLE:

**Elevations**

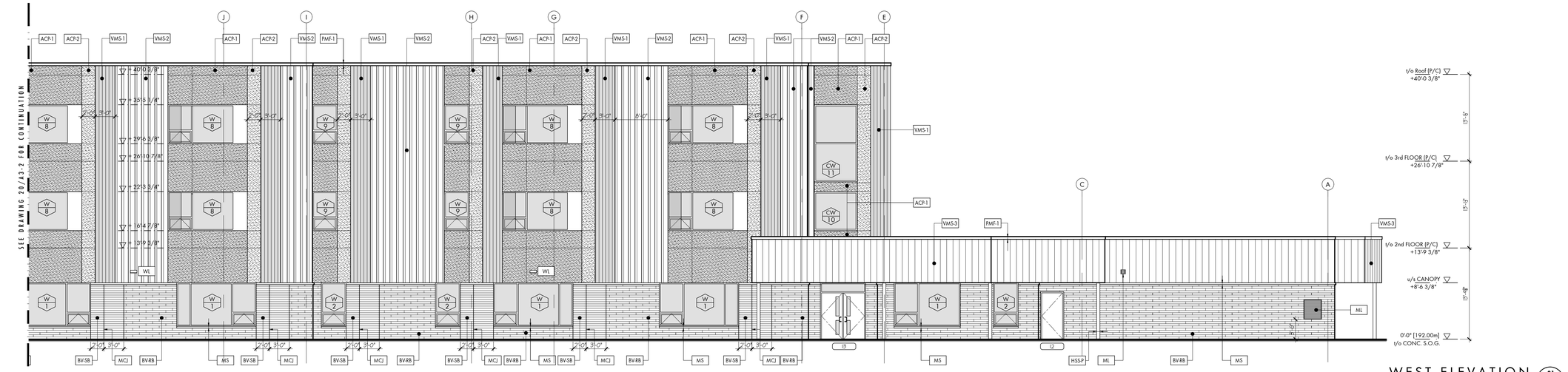
SCALE: As Noted
DRAWN: DWG
DATE: March 2025
PROJECT #: 2501
DRAWING #: A3-1

PLOTTED 3/31/2026 2:59 PM



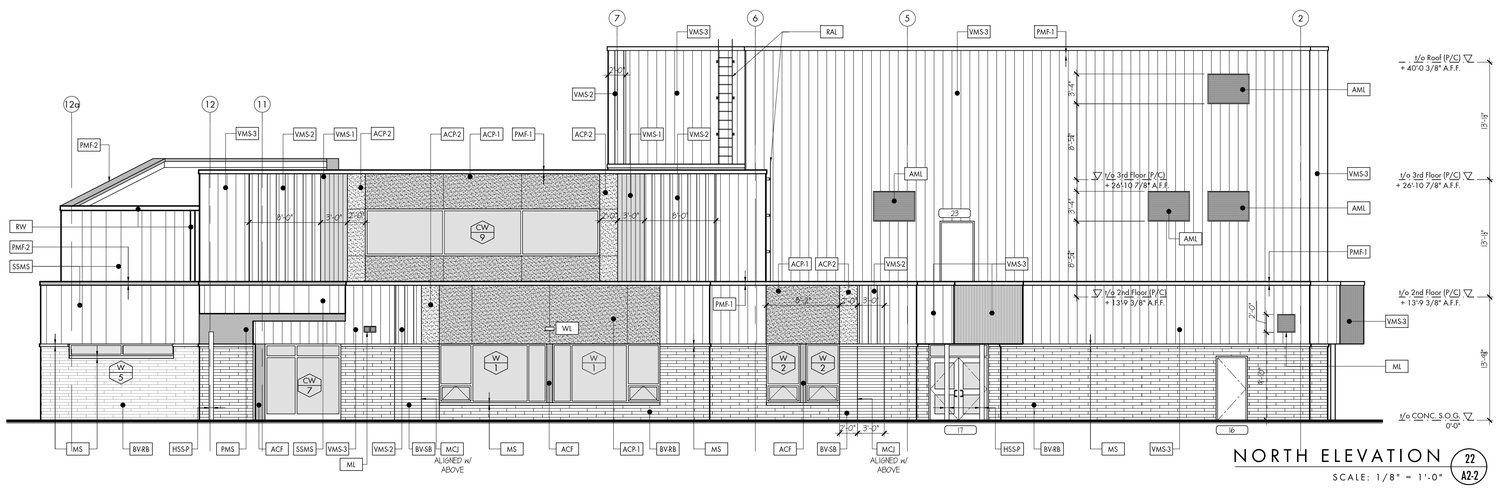

WEST ELEVATION 20 A2-2

SCALE: 1/8" = 1'-0"



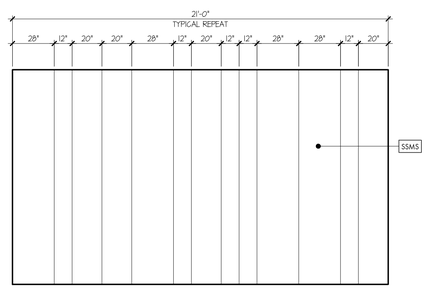

WEST ELEVATION 21 A2-1

SCALE: 1/8" = 1'-0"



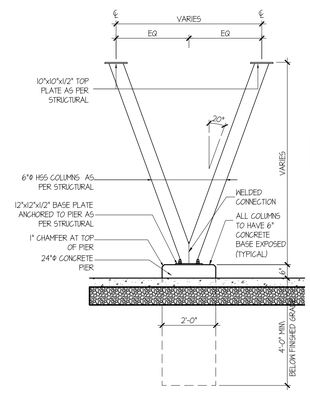

NORTH ELEVATION 22 A2-2

SCALE: 1/8" = 1'-0"




TYPICAL PANEL REPEAT @ SSMS

SCALE: 1/4" = 1'-0"




TYP. 'V' COLUMN DETAIL

SCALE: 3/8" = 1'-0"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PROJECT:

**Proposed New:**

# Elementary School

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Welland, ON

For the DSBN

SEAL:

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DRAWING TITLE:

**Elevations**

SCALE: As Noted

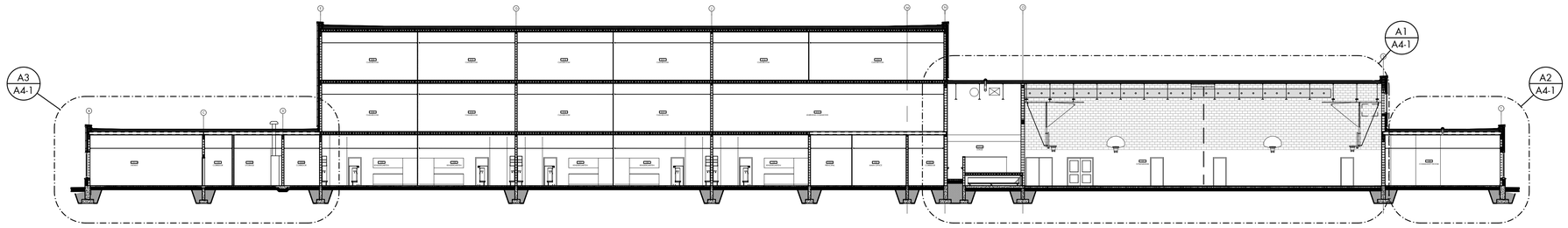
DRAWN: DWG

DATE: March 2025

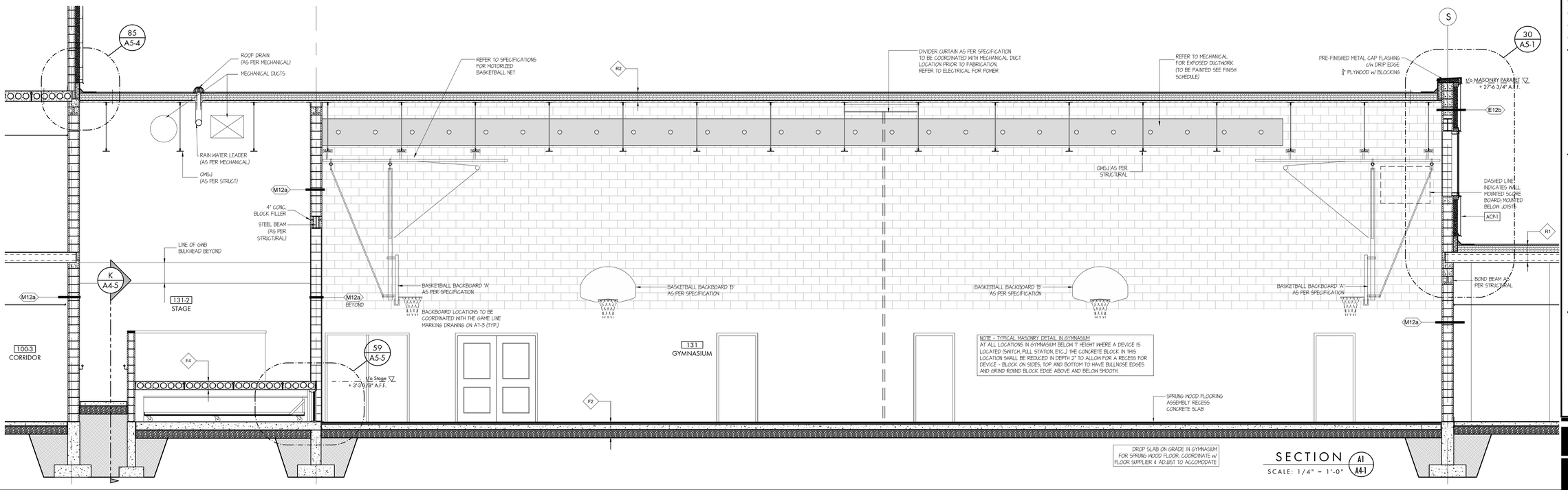
PROJECT #: 2501

DRAWING #: A3-2

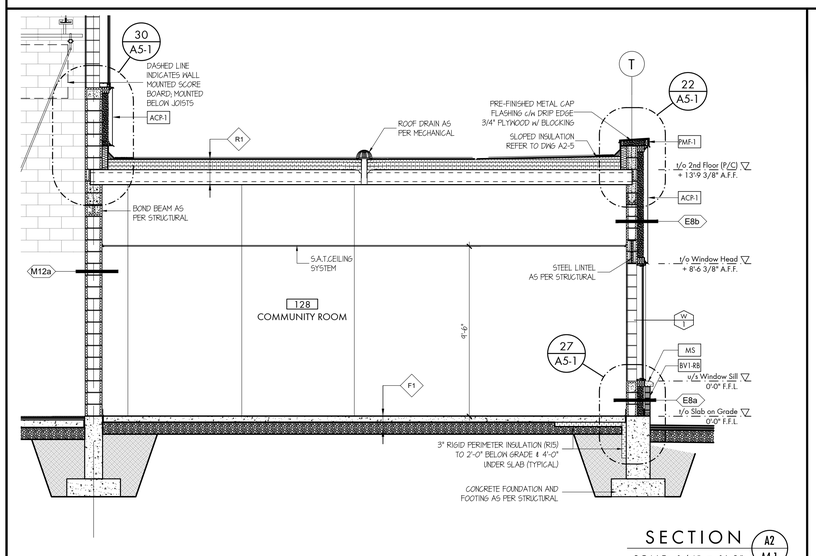
PLOTTED 3/31/2026 2:58 PM



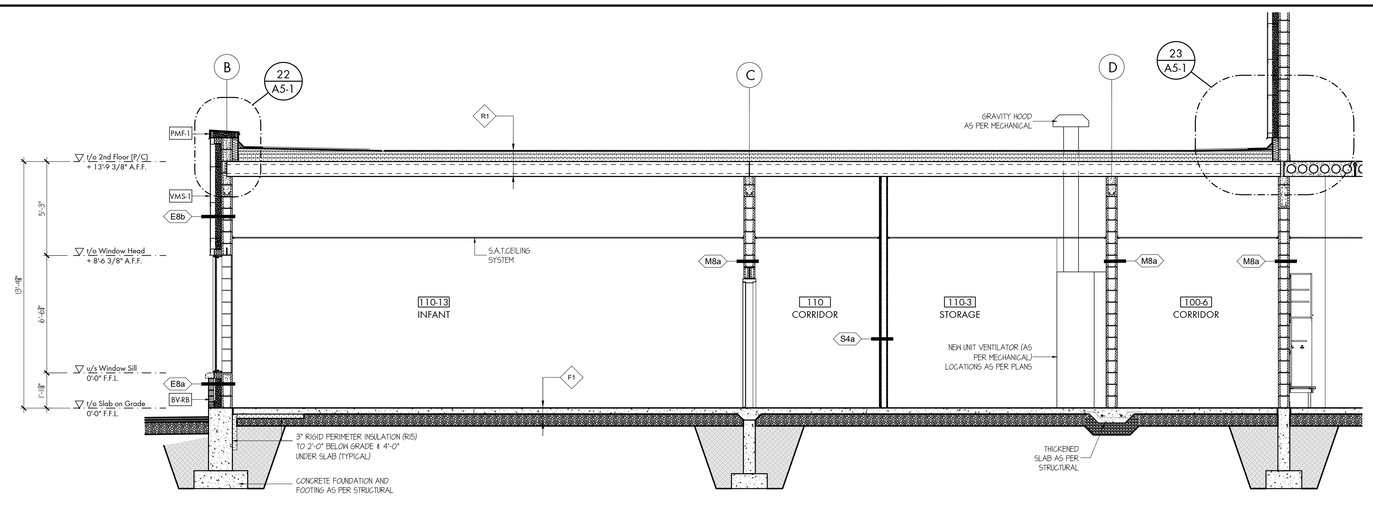

SECTION A/A2-1
SCALE: 3/16" = 1'-0"




SECTION A1/A4-1
SCALE: 1/4" = 1'-0"




SECTION A2/A4-1
SCALE: 1/4" = 1'-0"




SECTION A3/A4-1
SCALE: 3/16" = 1'-0"

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PROJECT:

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DRAWING TITLE:

**Sections**

SCALE:
As Noted

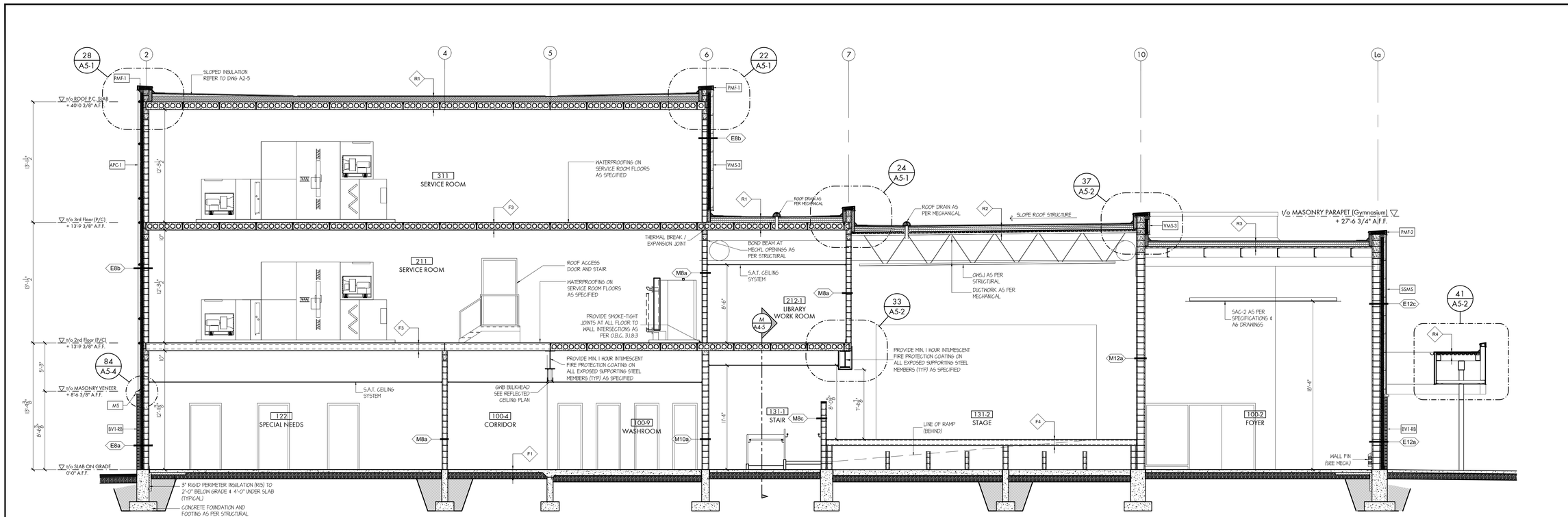
DRAWN:
SB

DATE:
March 2025

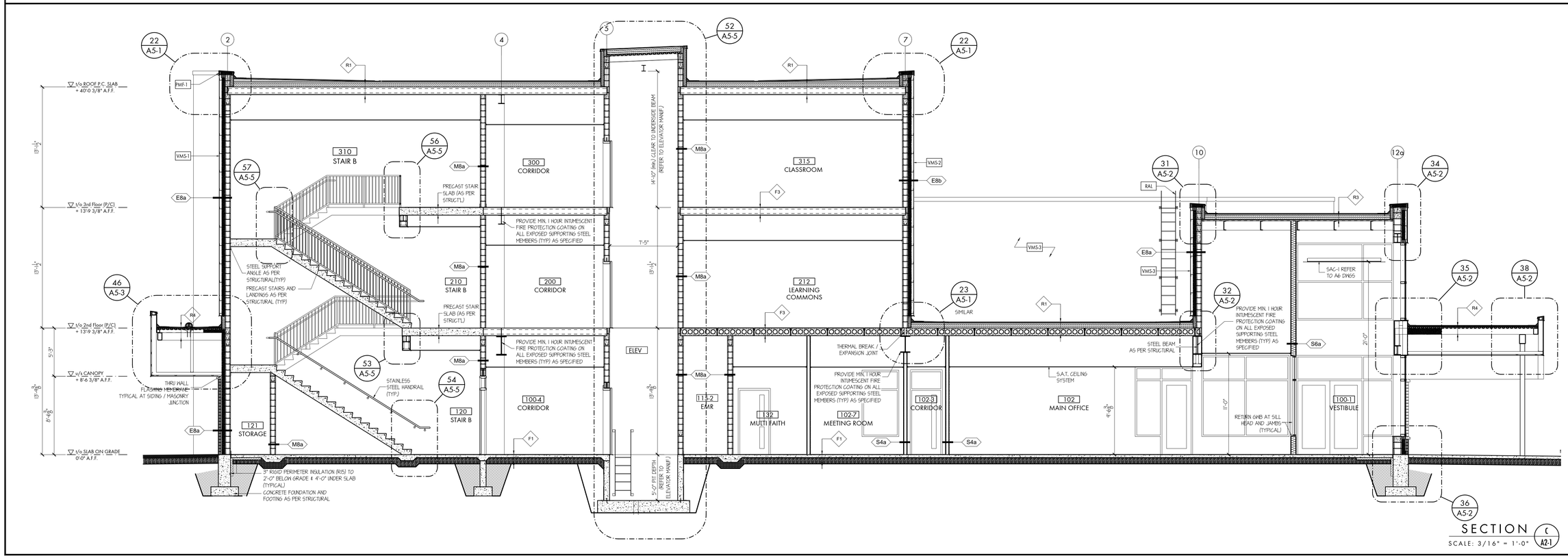
PROJECT #:
2501

DRAWING #:
A4-1

PLOTTED 3/31/2026 3:00 PM




SECTION B A2-2
SCALE: 3/16" = 1'-0"




SECTION C A2-1
SCALE: 3/16" = 1'-0"

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905-688-6087
www@whitelinearchitects.com

DRAWING TITLE:

**Sections**

SCALE: As Noted

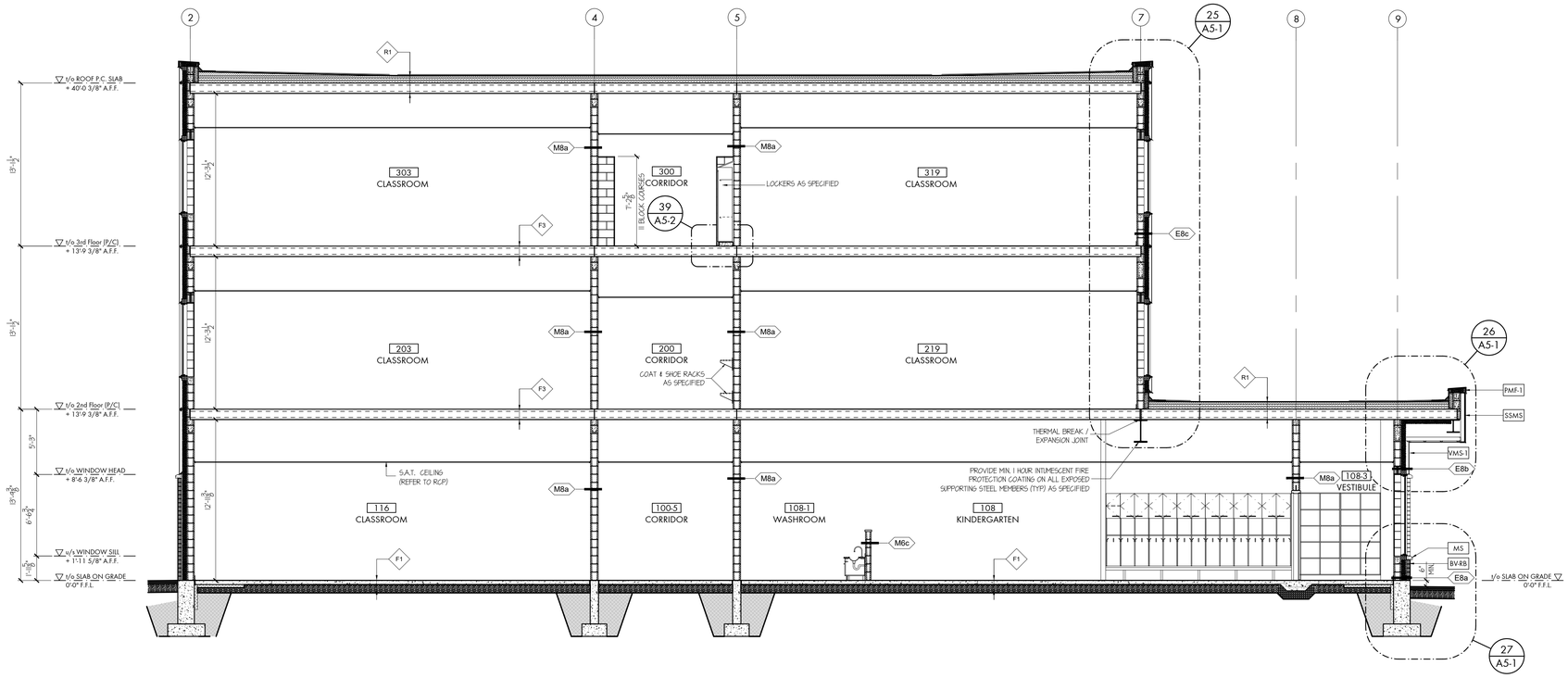
DRAWN: SB

DATE: March 2025

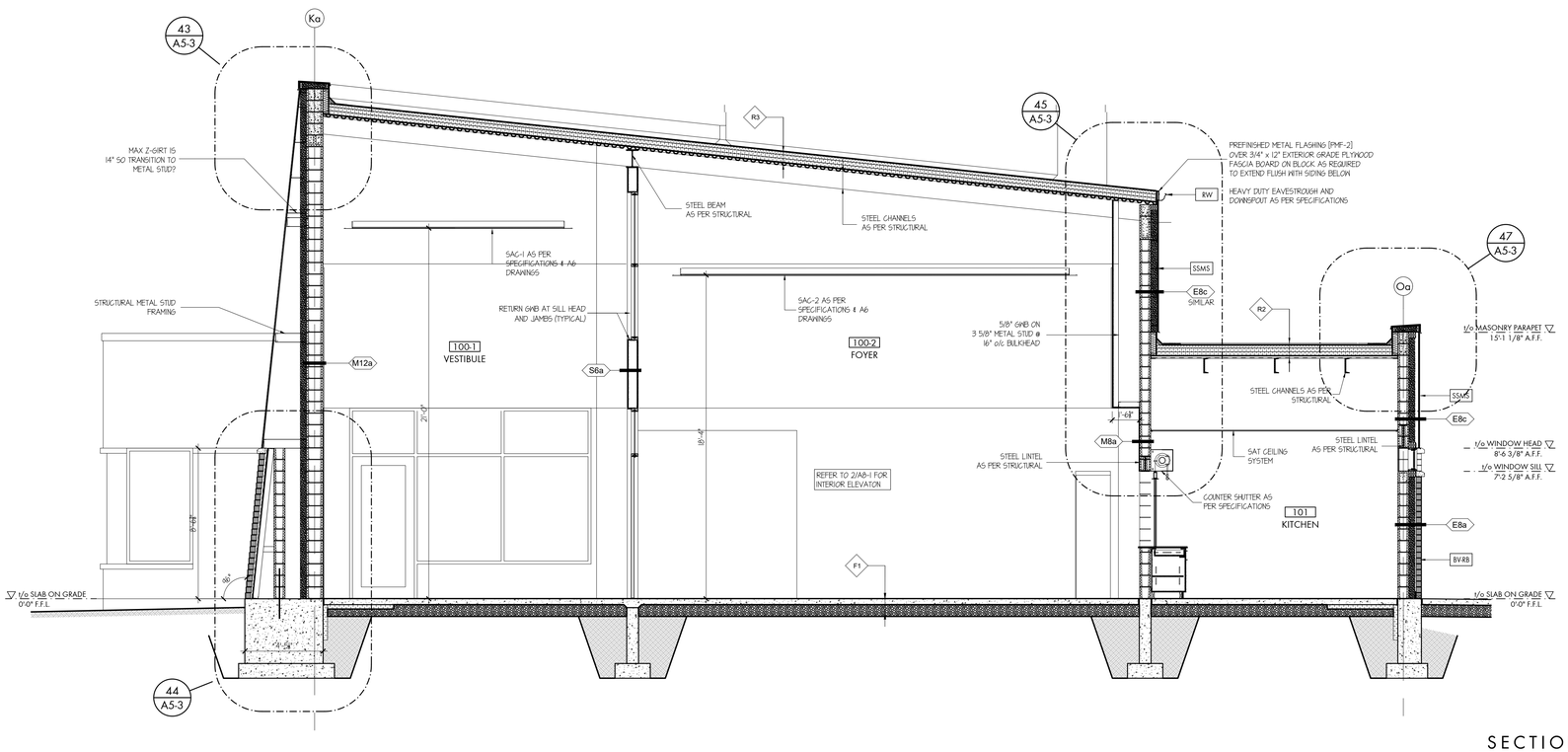
PROJECT #: 2501

DRAWING #: A4-2

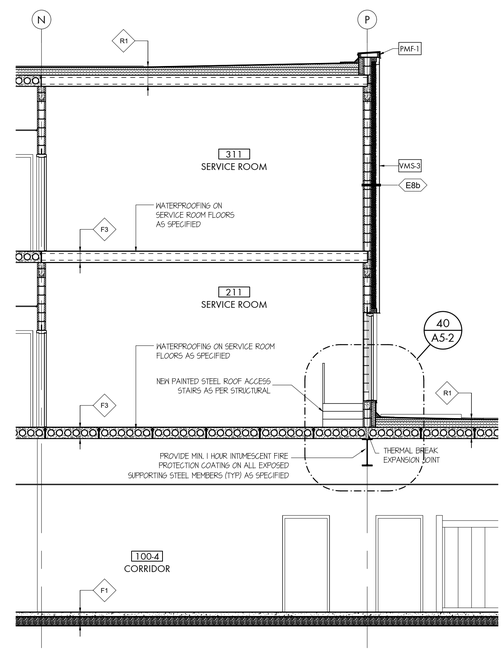
PLOTTED 3/31/2026 3:00 PM




SECTION D A2-1
SCALE: 3/16" = 1'-0"




SECTION E A2-2
SCALE: 1/4" = 1'-0"




SECTION F A2-3
SCALE: 3/16" = 1'-0"

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ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com

DRAWING TITLE:

**Sections**

SCALE:
As Noted

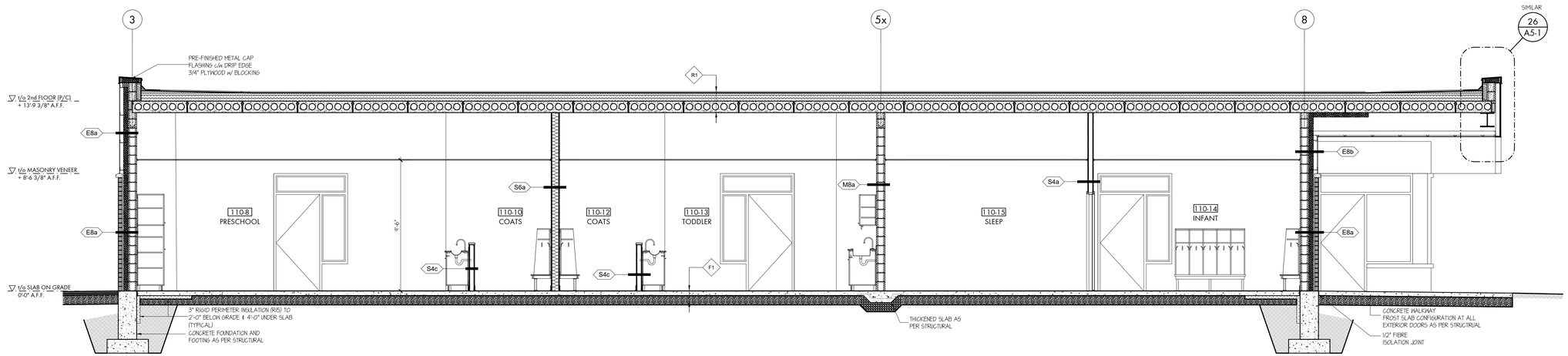
DRAWN:
SB

DATE:
March 2025

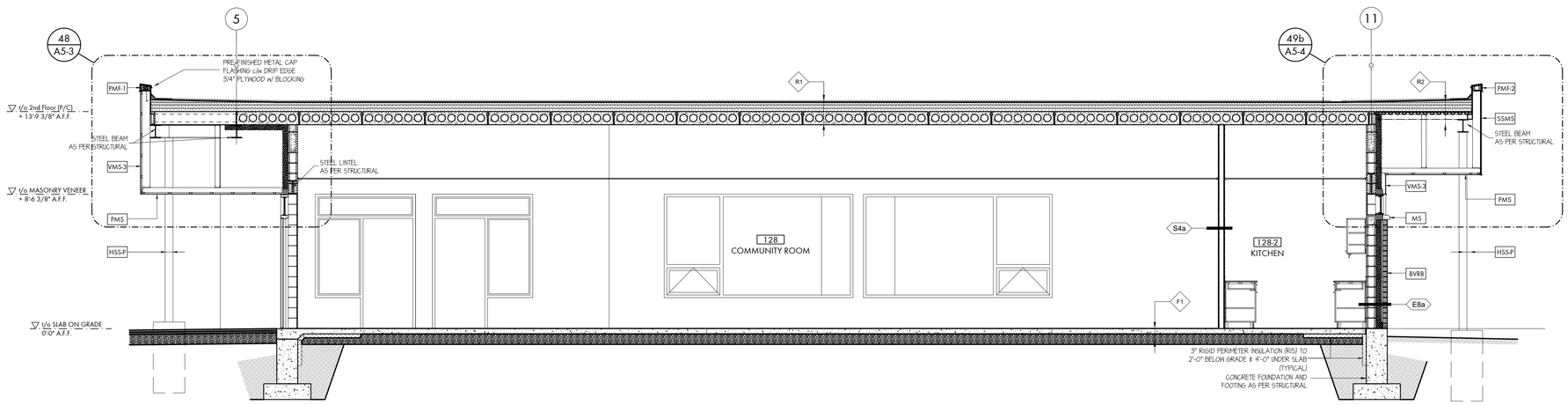
PROJECT #:
2501

DRAWING #:
A4-3

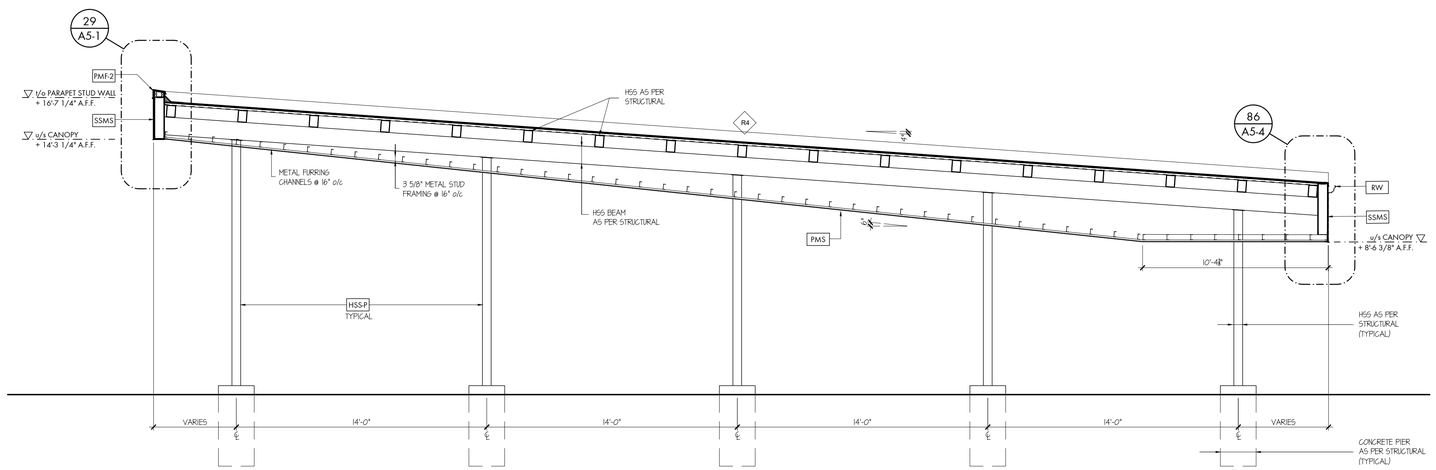
PLOTTED 3/31/2026 3:00 PM




SECTION G A2-1
SCALE: 1/4" = 1'-0"




SECTION H A2-2
SCALE: 1/4" = 1'-0"




SECTION J A2-1
SCALE: 1/4" = 1'-0"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PROJECT:

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DRAWING TITLE:

**Sections**

SCALE: As Noted

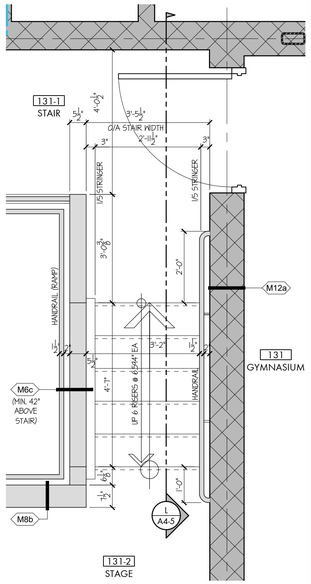
DRAWN: SB

DATE: March 2025

PROJECT #: 2501

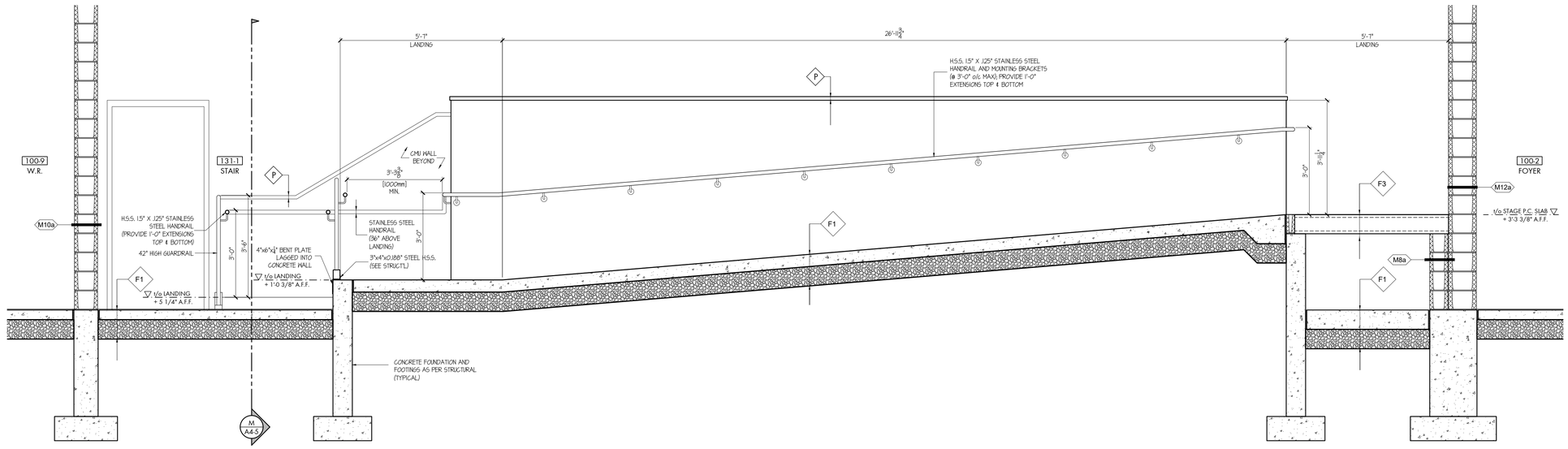
DRAWING #: A4-4

PLOTTED 3/31/2026 2:59 PM



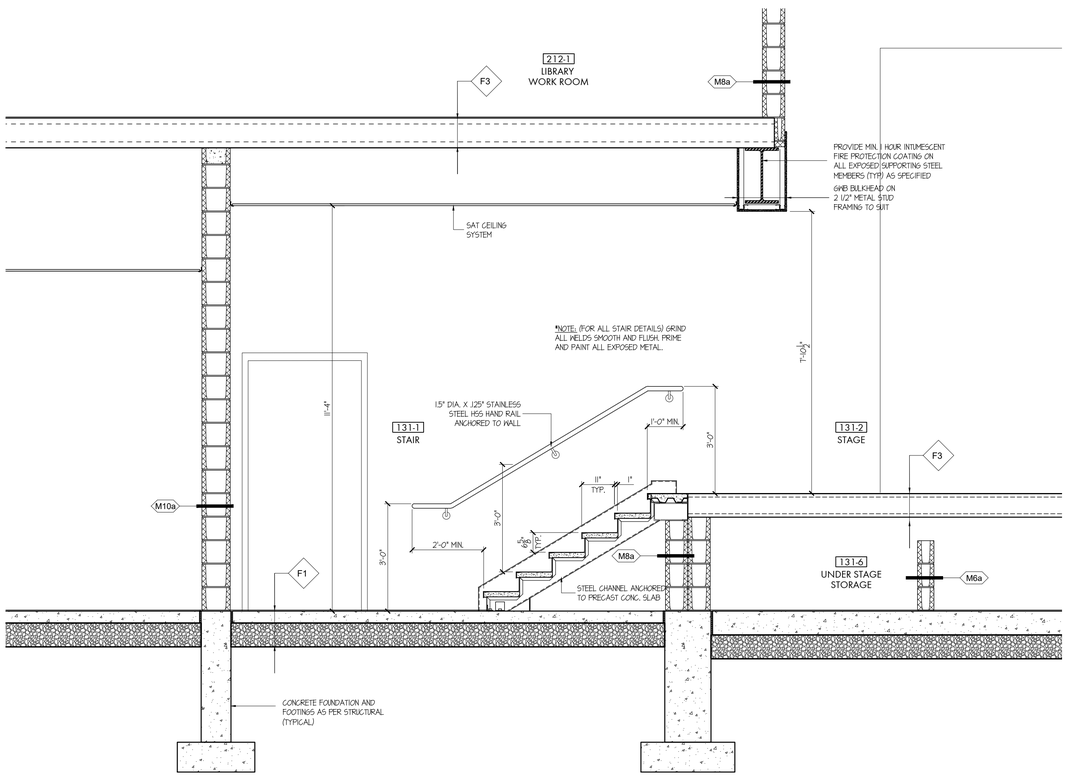

PLAN: Stage Stair (B3 / A2-2)

SCALE: 1/2" = 1'-0"



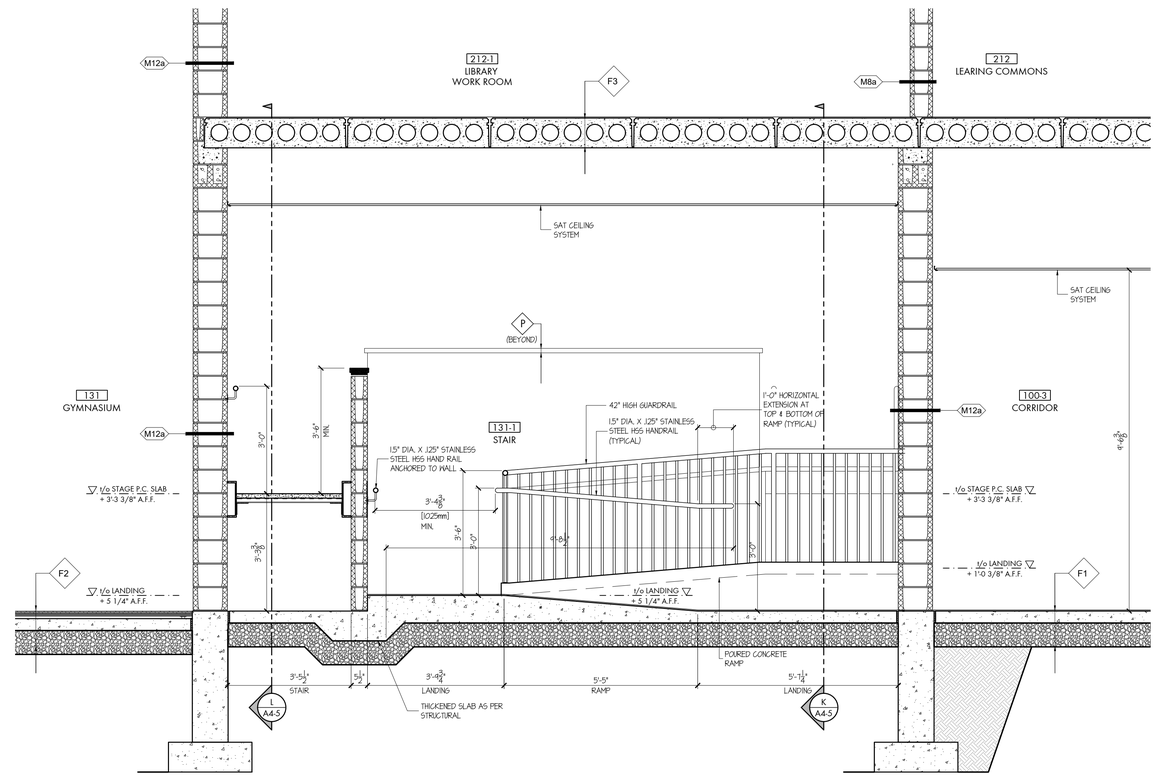

SECTION: Stage Ramp (K / A2-2)

SCALE: 1/2" = 1'-0"




SECTION: Stage Stair (L / A2-2)

SCALE: 1/2" = 1'-0"




SECTION: Stage Ramp (M / A2-2)

SCALE: 1/2" = 1'-0"

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www@whitelinearchitects.com

DRAWING TITLE:

**Stage Ramp and Stair Sections**

SCALE: As Noted

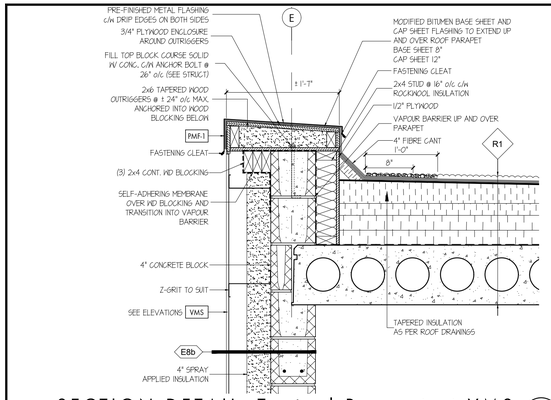
DRAWN: SB

DATE: March 2025

PROJECT #: 2501

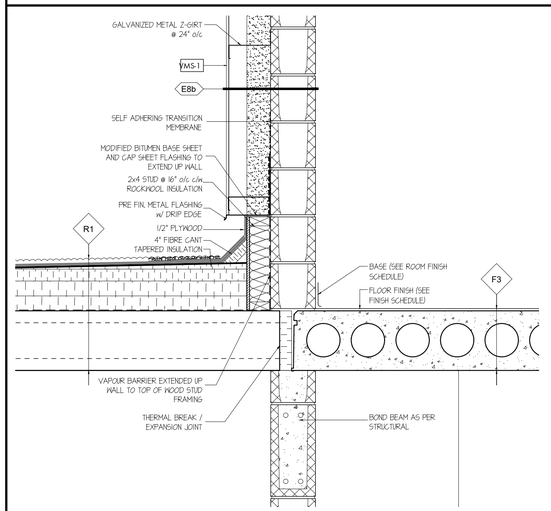
DRAWING #: A4-5

PLOTTED 3/31/2026 2:59 PM



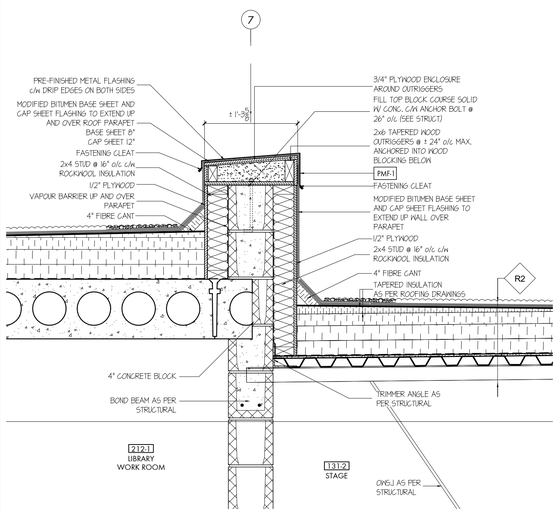

SECTION DETAIL: Typical Parapet at VMS (22 / A4-2)

SCALE: 1" = 1'-0"



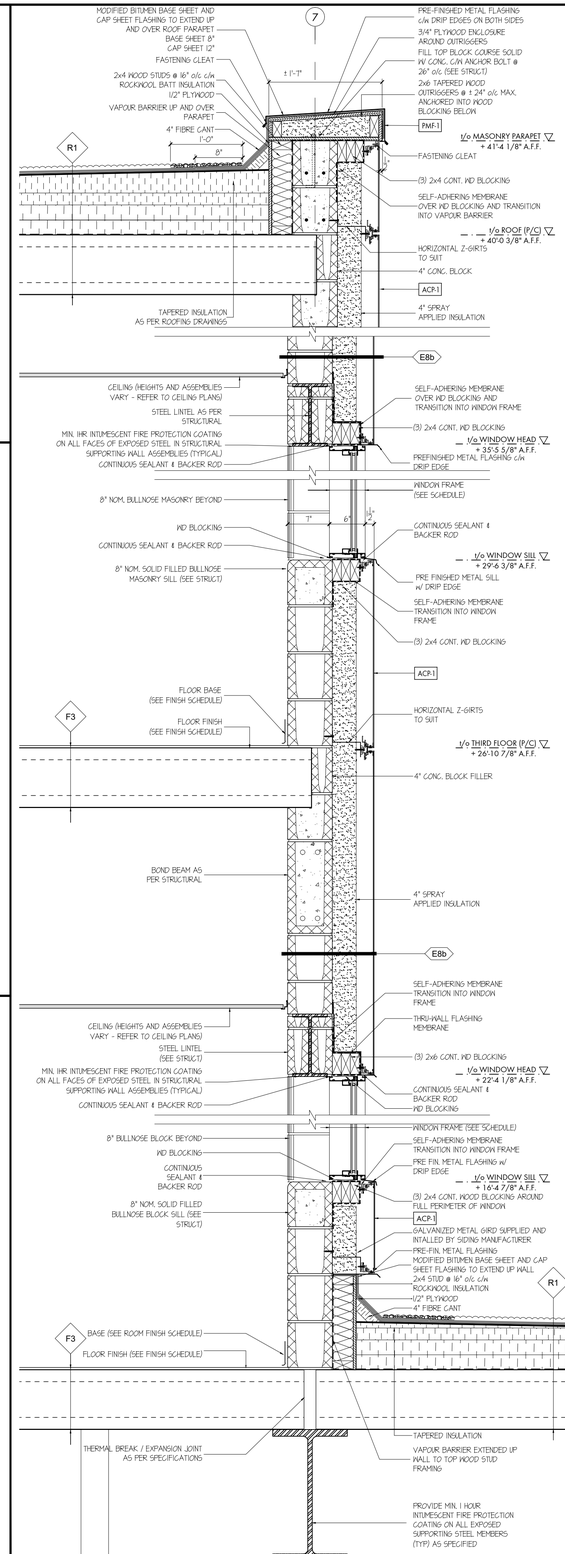

SECTION DETAIL: Low Roof at Wall (23 / A4-1)

SCALE: 1" = 1'-0"



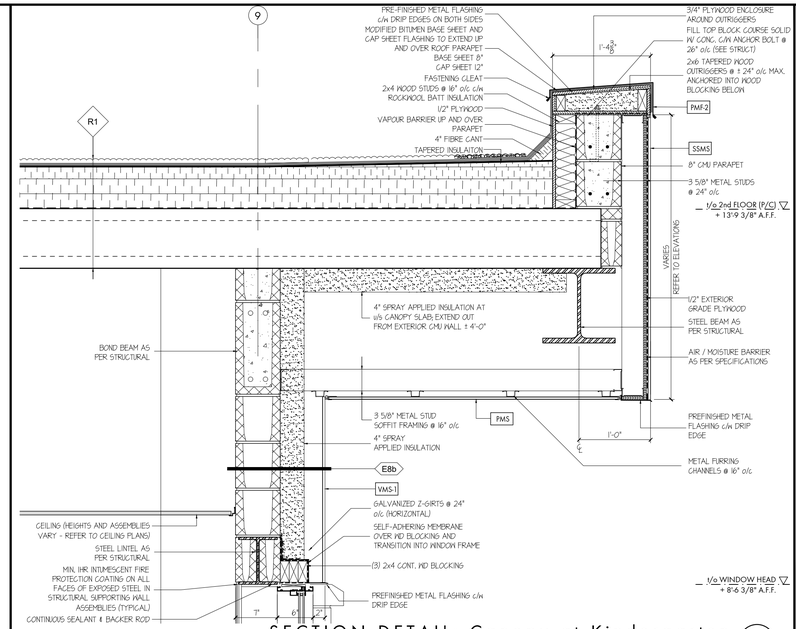

SECTION DETAIL: Stage Roof at Wall (24 / A4-2)

SCALE: 1" = 1'-0"



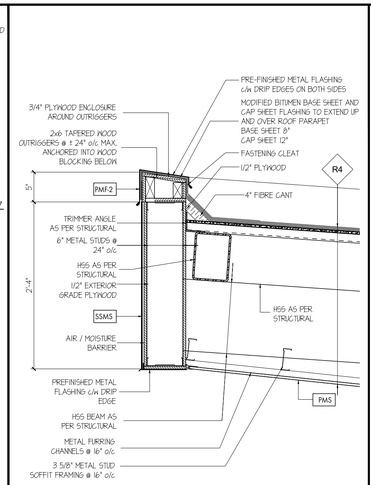

WALL SECTION: 2nd & 3rd Floor (East Wall) (25 / A4-3)

SCALE: 1" = 1'-0"



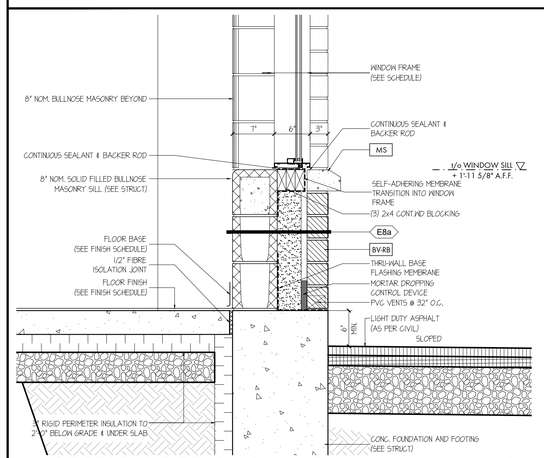

SECTION DETAIL: Canopy at Kindergarten (26 / A4-3)

SCALE: 1" = 1'-0"



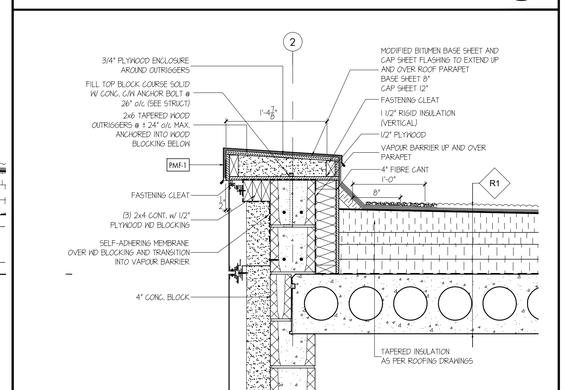

DETAIL: Canopy Fascia (29 / A4-4)

SCALE: 1" = 1'-0"



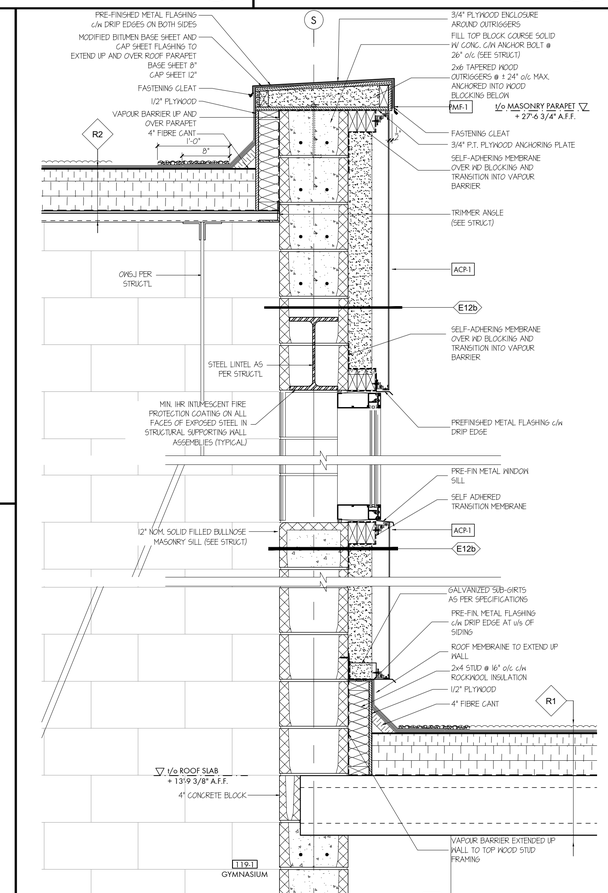

SECTION DETAIL: Wall Base at Window (27 / A4-3)

SCALE: 1" = 1'-0"




SECTION DETAIL: Typical Parapet at ACP (28 / A4-2)

SCALE: 1" = 1'-0"




SECTION DETAIL: Parapet at Gymnasium (30 / A4-1)

SCALE: 1" = 1'-0"

**THESE DRAWINGS ARE NOT TO BE SCALED**

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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
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DRAWING TITLE:

**Section Details**

SCALE: As Noted

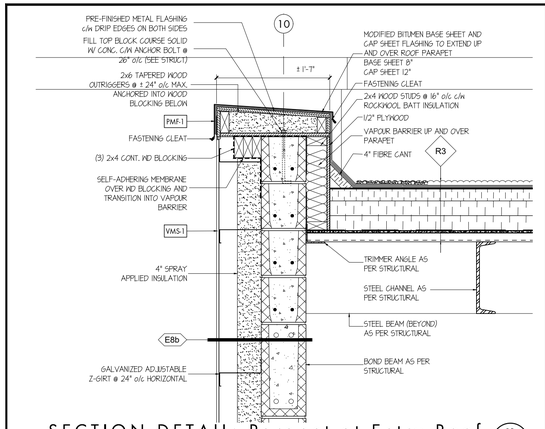
DRAWN: SB

DATE: March 2025

PROJECT #: 2501

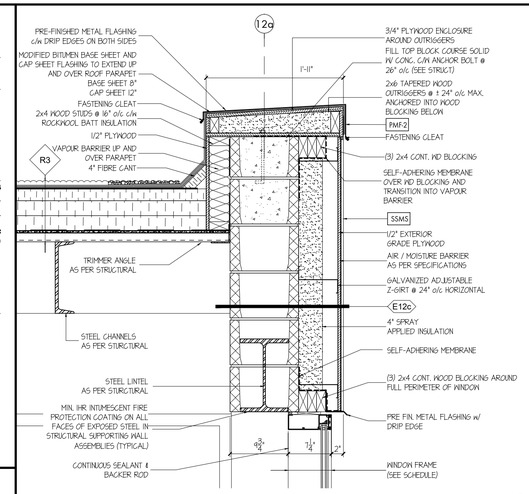
DRAWING #: A5-1

PLOTTED 3/31/2026 2:59 PM



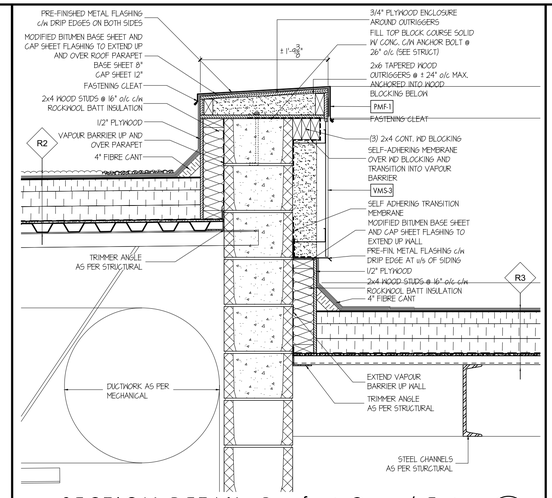

SECTION DETAIL: Parapet at Entry Roof (31 / A4-2)

SCALE: 1" = 1'-0"



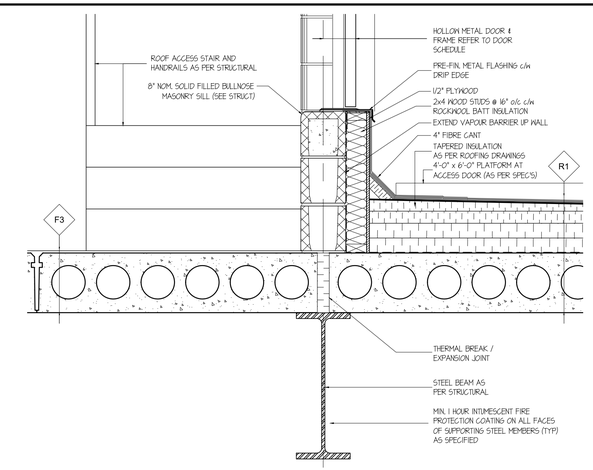

SECTION DETAIL: Parapet at Entry Roof (34 / A4-2)

SCALE: 1" = 1'-0"



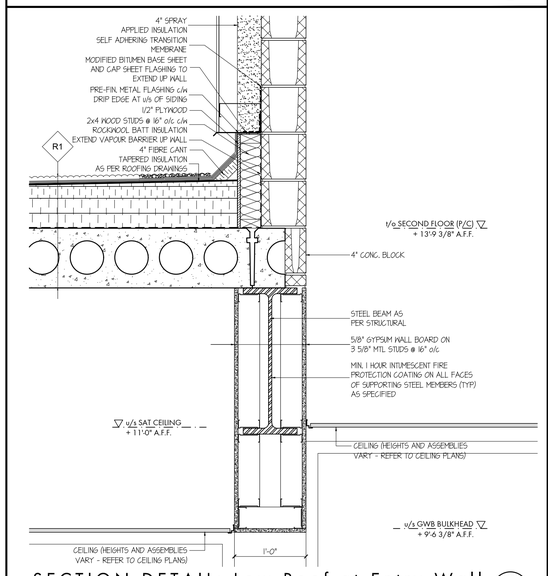

SECTION DETAIL: Roof at Gym / Entry (37 / A4-2)

SCALE: 1" = 1'-0"



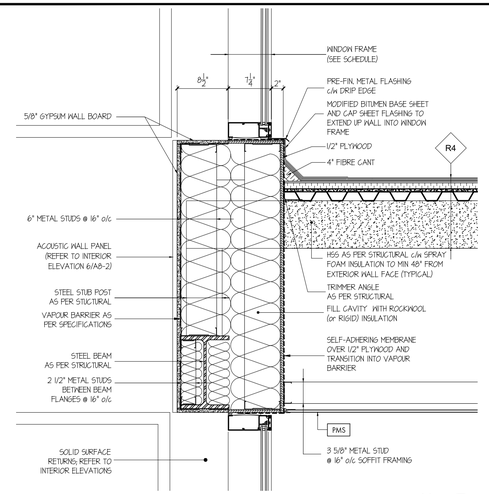

SECTION DETAIL: Roof Access Door (40 / A4-3)

SCALE: 1" = 1'-0"



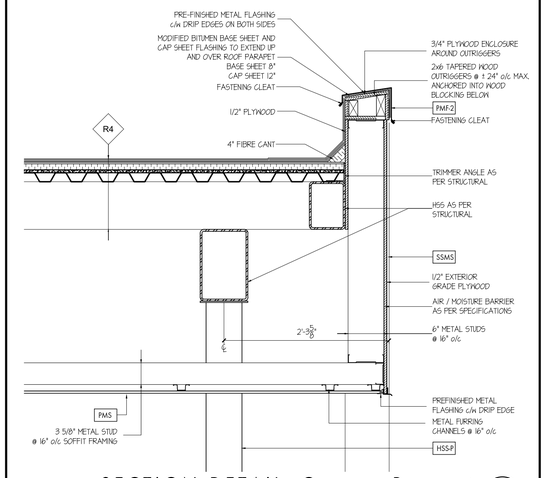

SECTION DETAIL: Low Roof at Entry Wall (32 / A4-2)

SCALE: 1" = 1'-0"



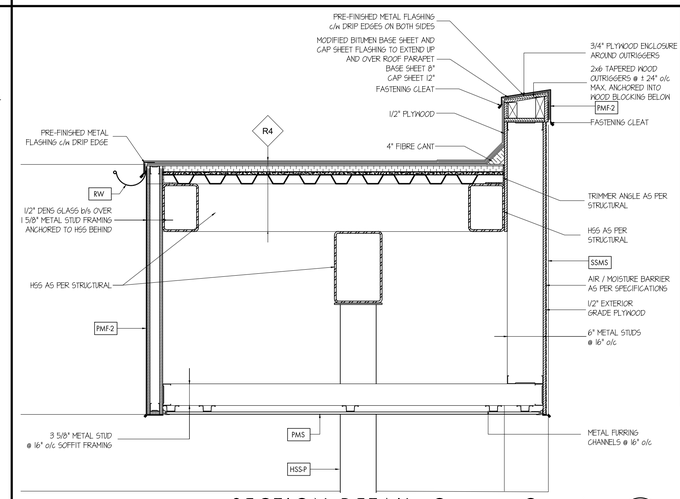

SECTION DETAIL: Canopy at Entry Wall (35 / A4-2)

SCALE: 1" = 1'-0"



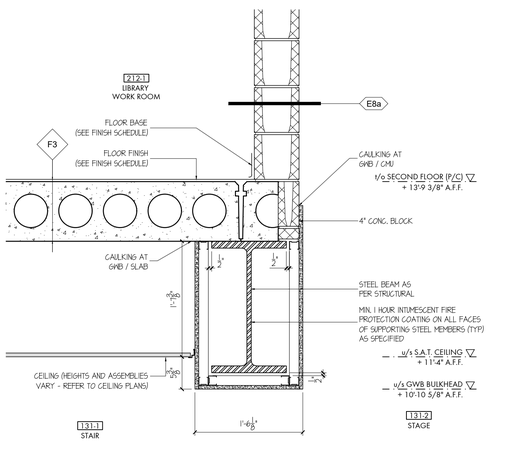

SECTION DETAIL: Canopy Parapet (38 / A4-2)

SCALE: 1" = 1'-0"



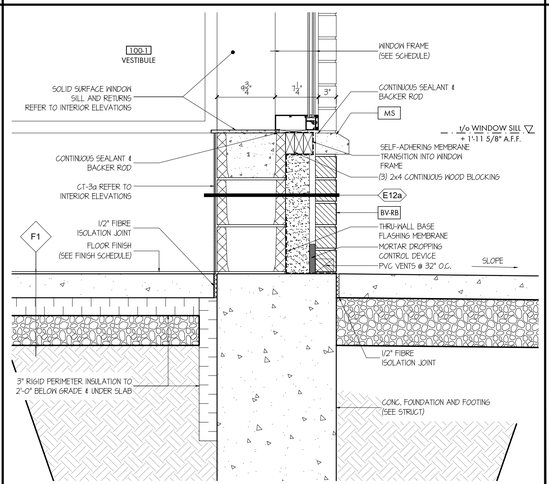

SECTION DETAIL: Canopy Opening (41 / A4-2)

SCALE: 1" = 1'-0"



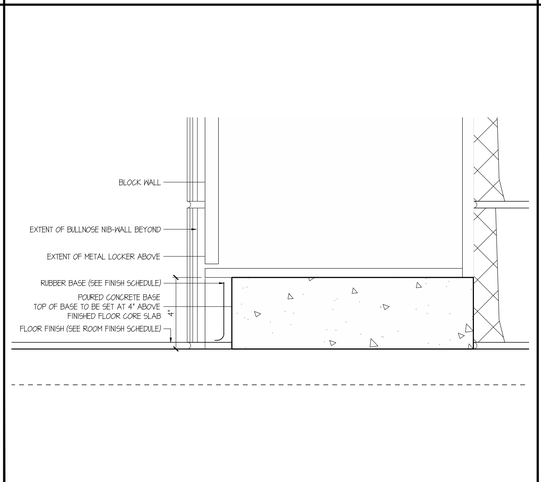

SECTION DETAIL: Fire Rated Beam (33 / A4-2)

SCALE: 1" = 1'-0"



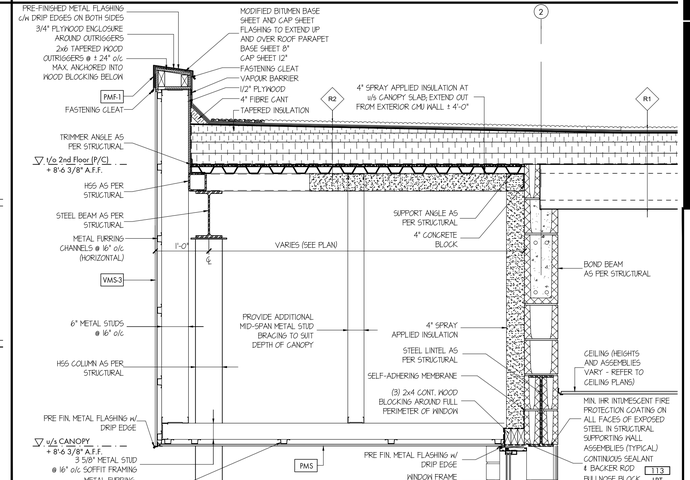

SECTION DETAIL: Wall Base at Entry Wall (36 / A4-3)

SCALE: 1" = 1'-0"




SECTION DETAIL: Locker base (39 / A4-3)

SCALE: 3" = 1'-0"




SECTION DETAIL: Canopy (42 / A2-1)

SCALE: 3/4" = 1'-0"

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DRAWING TITLE:

**Section Details**

SCALE: As Noted

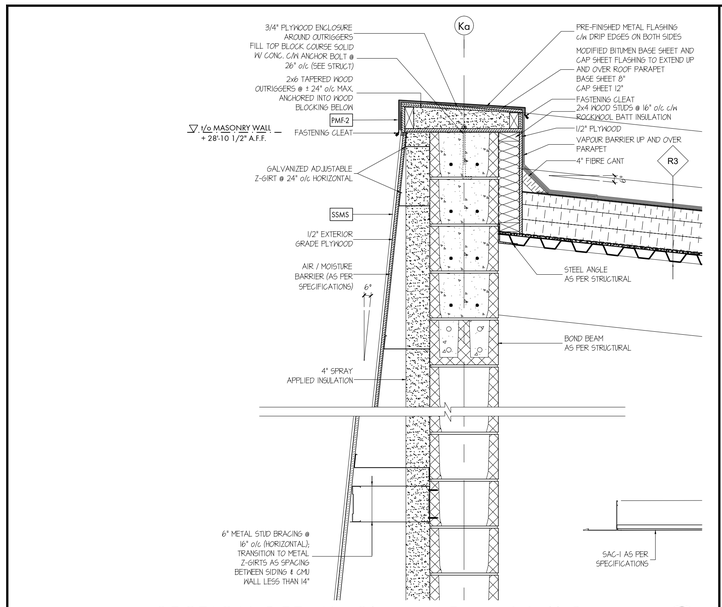
DRAWN: SB

DATE: March 2025

PROJECT #: 2501

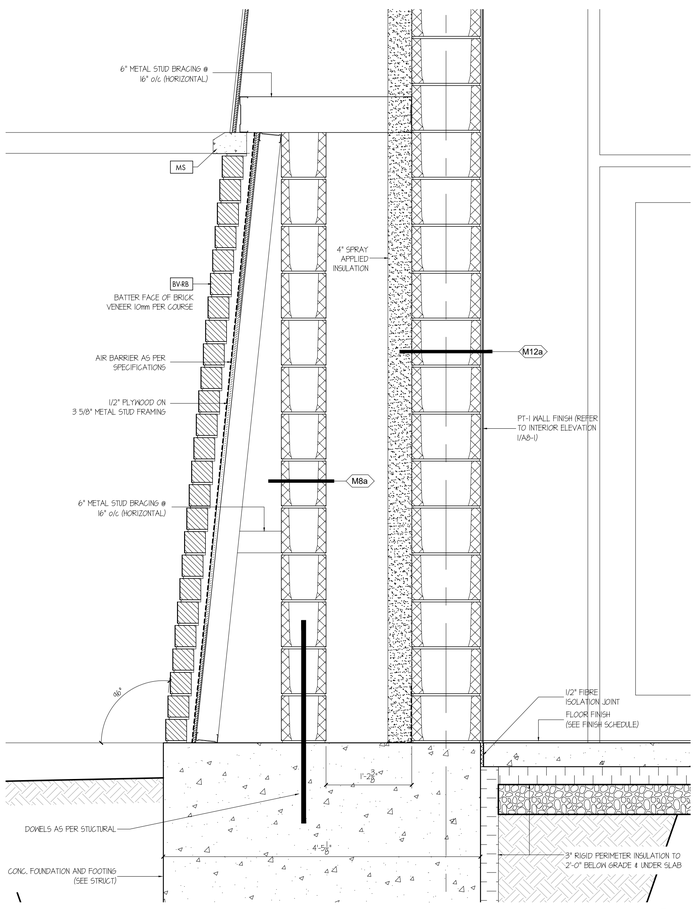
DRAWING #: A5-2

PLOTTED 3/31/2026 3:00 PM



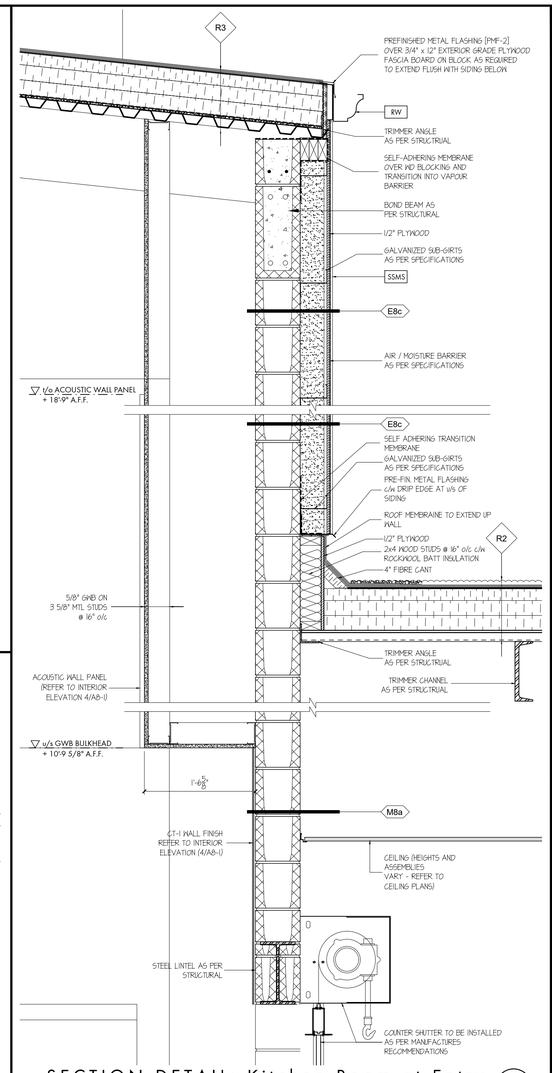

SECTION DETAIL: Sloping Entry Wall Parapet 43 A4-3

SCALE: 1" = 1'-0"



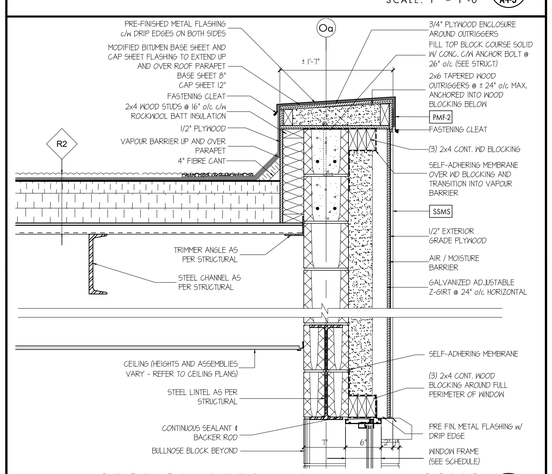

SECTION DETAIL: Sloping Entry Wall Base 44 A4-3

SCALE: 1" = 1'-0"



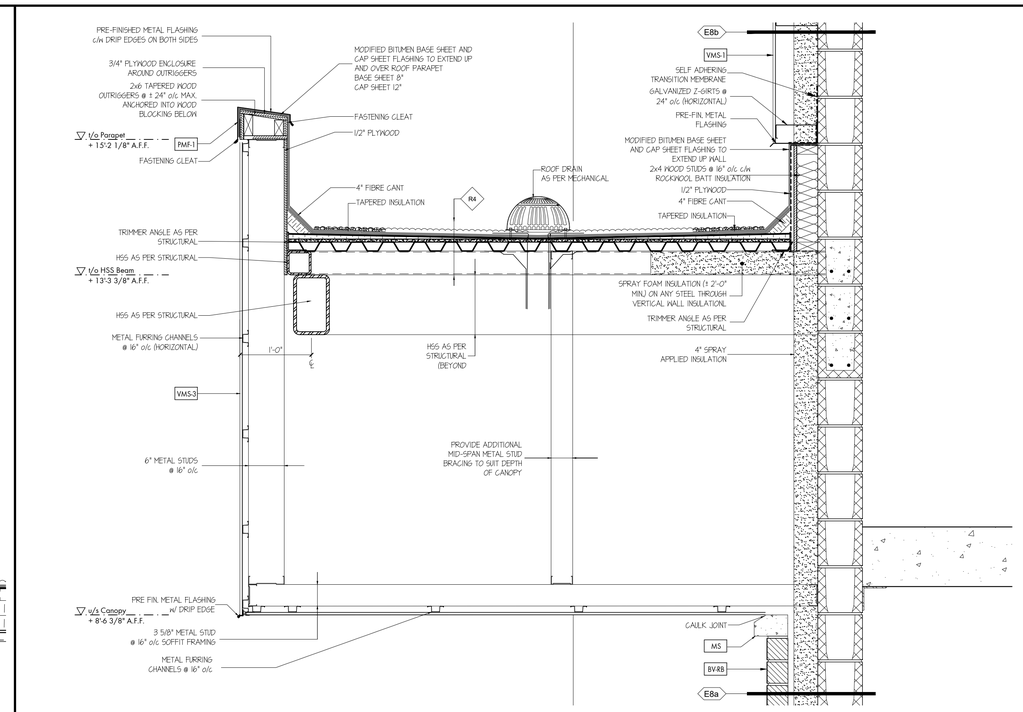

SECTION DETAIL: Kitchen Room at Entry 45 A4-3

SCALE: 1" = 1'-0"



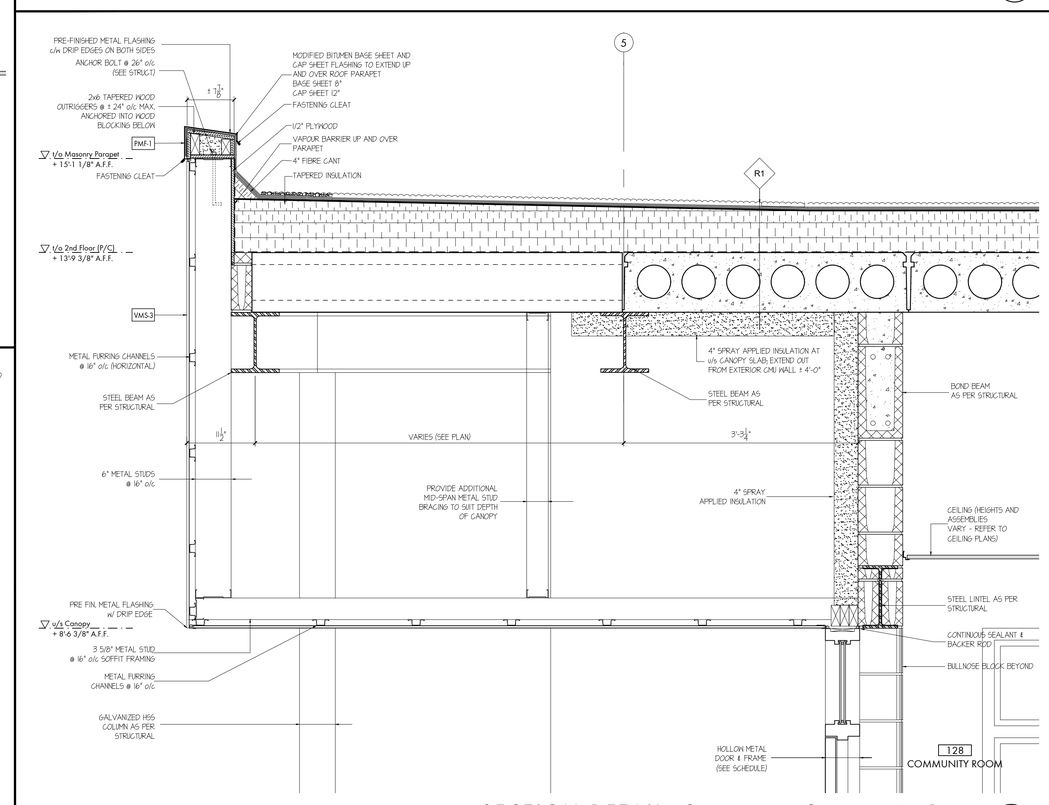

SECTION DETAIL: Parapet at SSMS 47 A4-3

SCALE: 1" = 1'-0"




SECTION DETAIL: Canopy at Door 15 46 A4-3

SCALE: 1" = 1'-0"




SECTION DETAIL: Canopy at Community Room 48 A4-3

SCALE: 1" = 1'-0"

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PROJECT:

**Proposed New:**

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SEAL:

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KEVIN MARK EMRICH
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www@whitelinearchitects.com

DRAWING TITLE:

**Section Details**

SCALE: As Noted

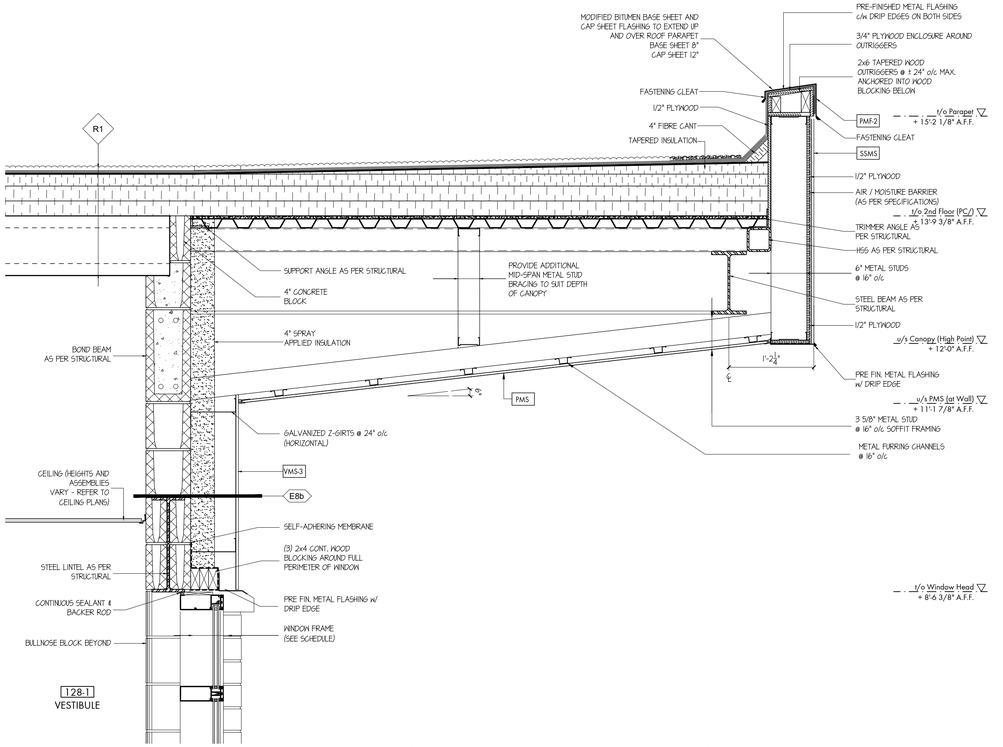
DRAWN: DWG

DATE: March 2025

PROJECT #: 2501

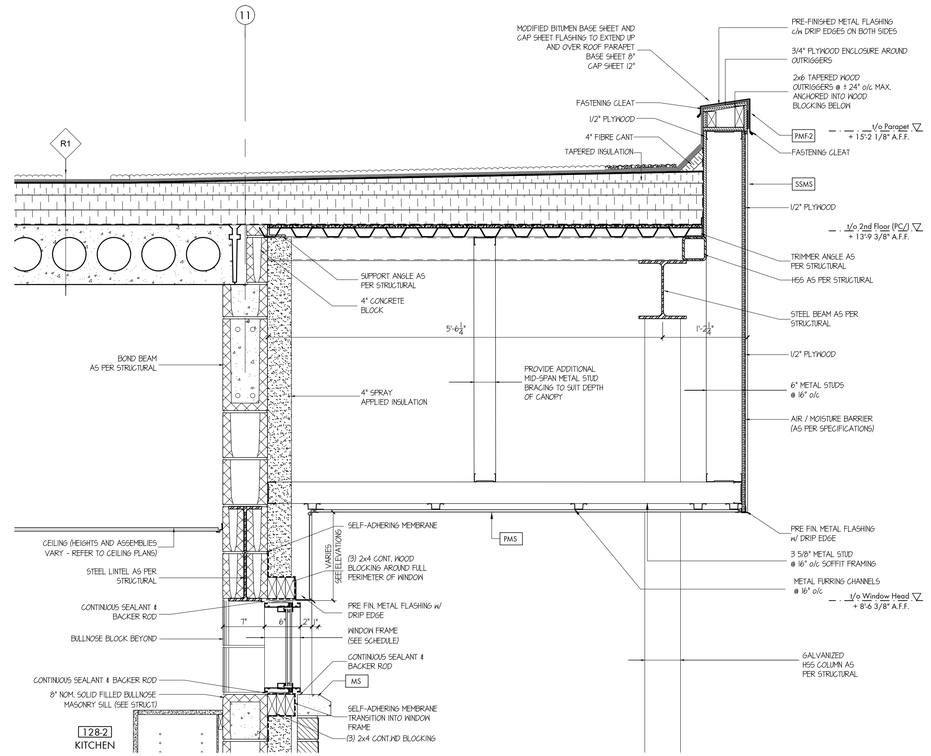
DRAWING #: A5-3

PLOTTED 3/31/2026 3:00 PM



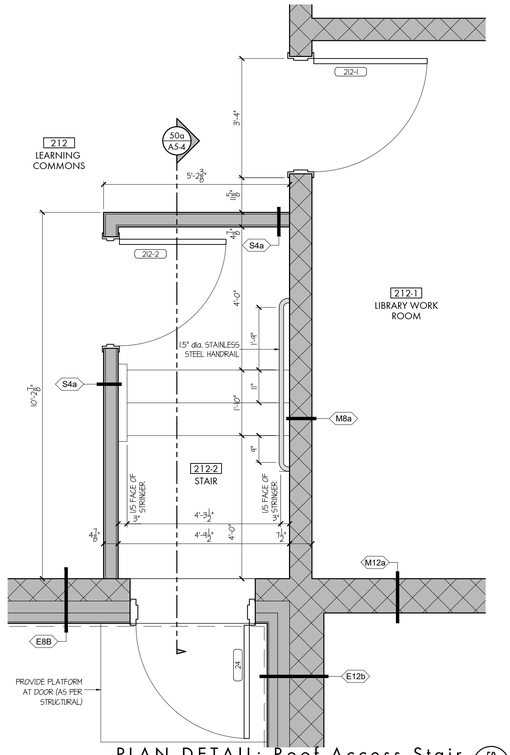

SECTION DETAIL: Canopy at Community Room Entrance (49a / A2-2)

SCALE: 1" = 1'-0"



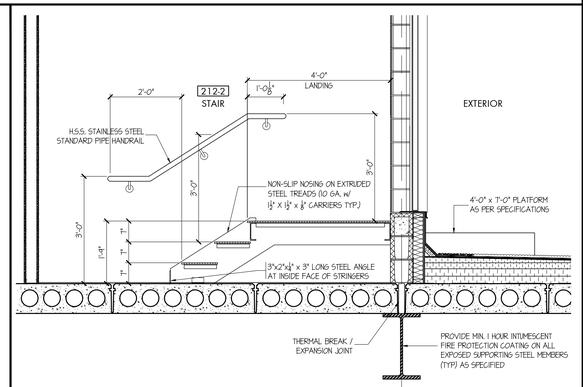

SECTION DETAIL: Canopy at Community Room Kitchen (49b / A4-4)

SCALE: 1" = 1'-0"



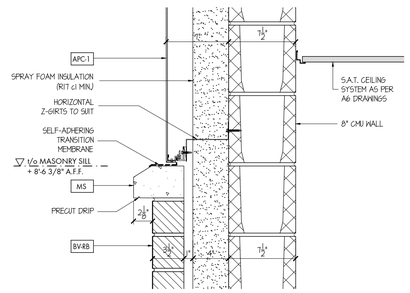

PLAN DETAIL: Roof Access Stair (50 / A2-3)

SCALE: 1/2" = 1'-0"



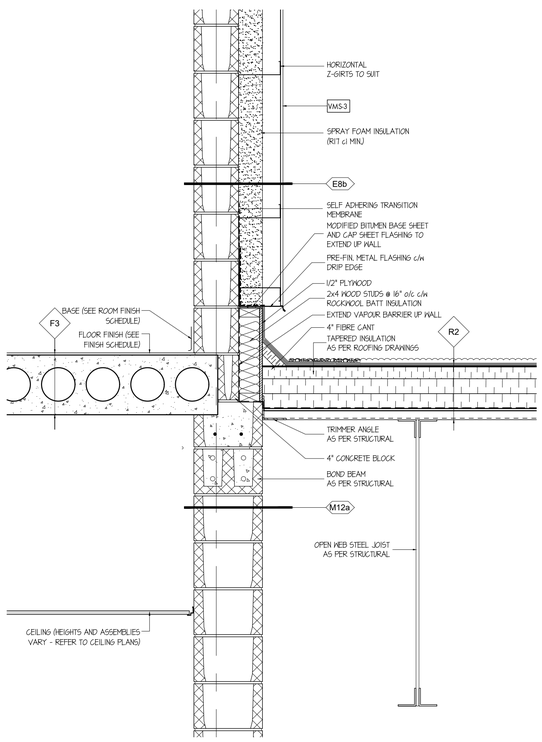

SECTION DETAIL: Roof Access Stair (50a / A2-3)

SCALE: 1/2" = 1'-0"



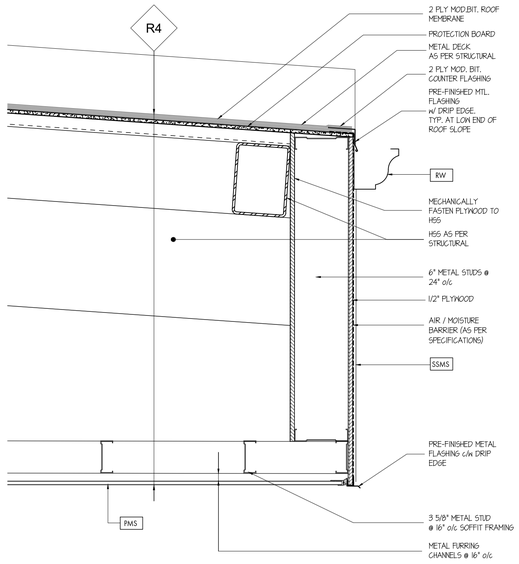

SECTION DETAIL: [APC] at [BV] (84 / A4-2)

SCALE: 1 1/2" = 1'-0"




SECTION DETAIL: Wall at Stage Roof (85 / A4-1)

SCALE: 1 1/2" = 1'-0"




SECTION DETAIL: Front Canopy (Low Edge) (86 / A4-4)

SCALE: 1 1/2" = 1'-0"

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DRAWING TITLE:

**Section Details**

SCALE: As Noted

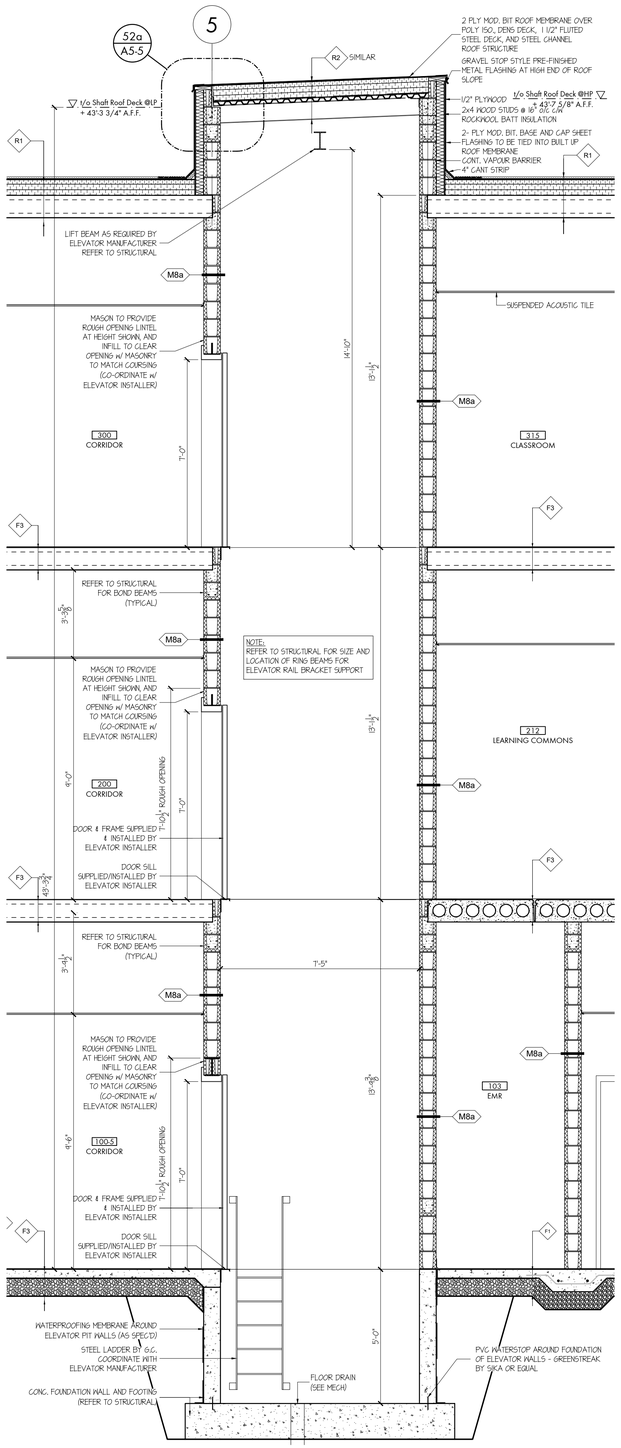
DRAWN: DWG

DATE: March 2025

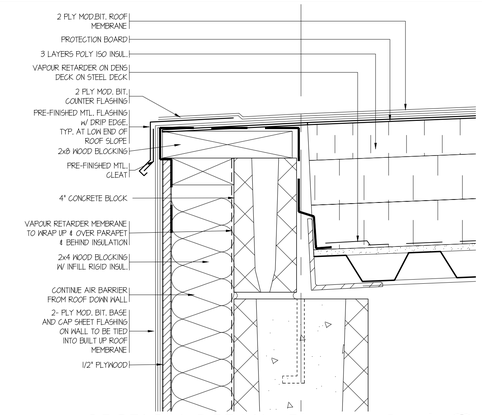
PROJECT #: 2501

DRAWING #: A5-4

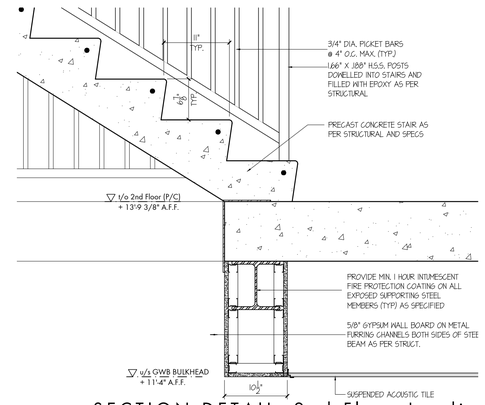
PLOTTED 3/31/2026 2:57 PM



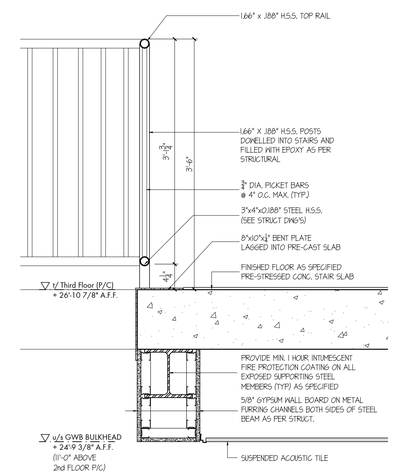

Elevator Section 52 A4-2
SCALE: 3/8" = 1'-0"



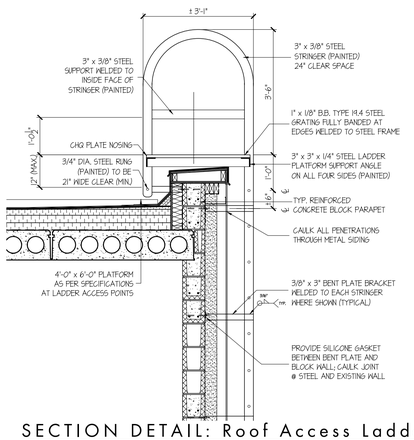

SECTION DETAIL: Elevator Roof 52a A5-5
SCALE: 3" = 1'-0"



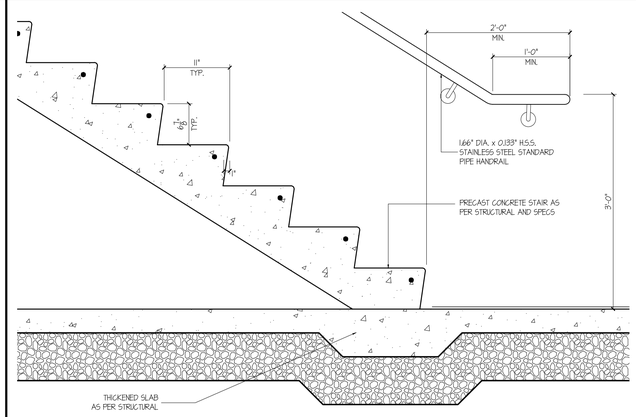

SECTION DETAIL: 2nd Floor Landing 53 A4-2
SCALE: 1" = 1'-0"



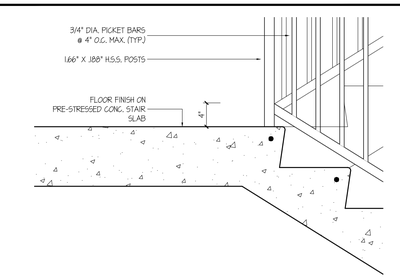

SECTION DETAIL: Top Landing 56 A4-2
SCALE: 1" = 1'-0"



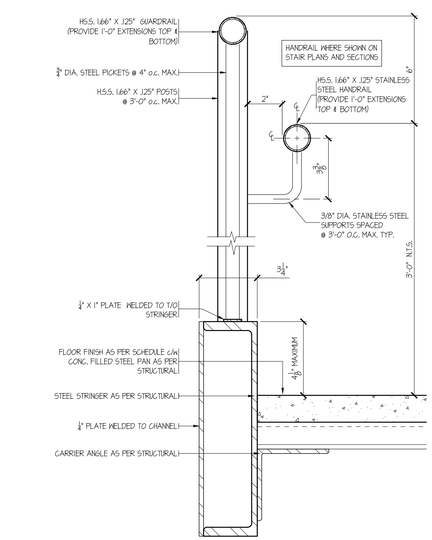

SECTION DETAIL: Roof Access Ladder 51 A5-5
SCALE: 1/2" = 1'-0"



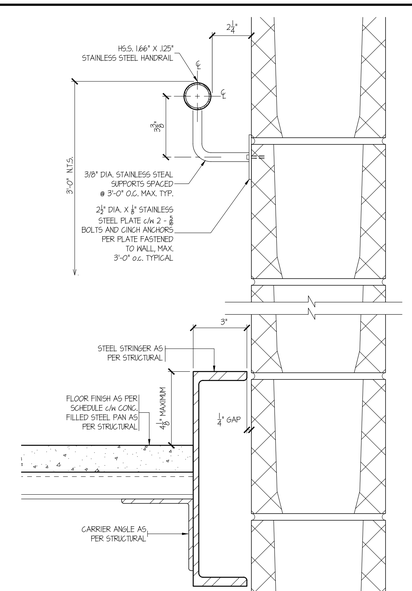

SECTION DETAIL: Bottom of Stair 54 A4-2
SCALE: 1" = 1'-0"



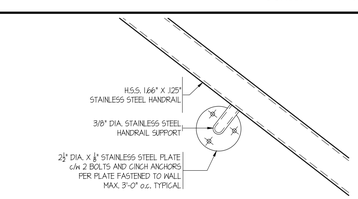

SECTION DETAIL: Mid Landing 57 A4-2
SCALE: 1" = 1'-0"



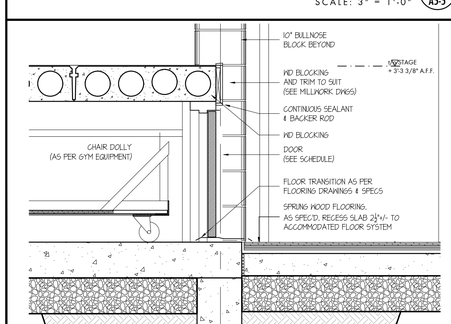

TYP. SECTION DETAIL: Stair Guardrail 55a A5-5
SCALE: 3" = 1'-0"




TYP. SECTION DETAIL: Stair Handrail and Stringer 55b A5-5
SCALE: 3" = 1'-0"




TYPICAL DETAIL: Handrail at Wall 58 A5-5
SCALE: 3" = 1'-0"




TYPICAL DETAIL: Stage Front 59 A4-1
SCALE: 3" = 1'-0"

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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
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905-688-6087
www@whitelinearchitects.com

DRAWING TITLE:

**Elevator and Stair Details**

SCALE: As Noted

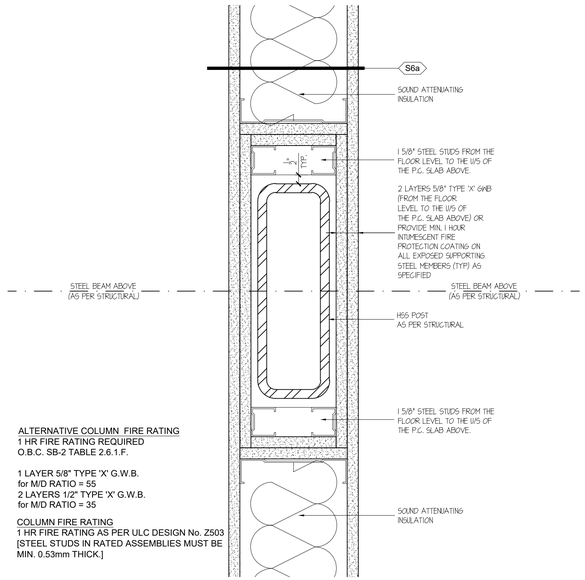
DRAWN: DWG

DATE: March 2025

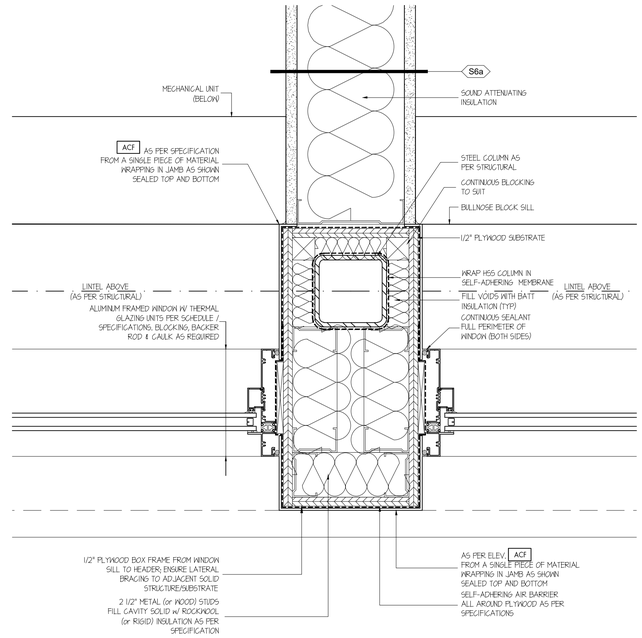
PROJECT #: 2501

DRAWING #: A5-5

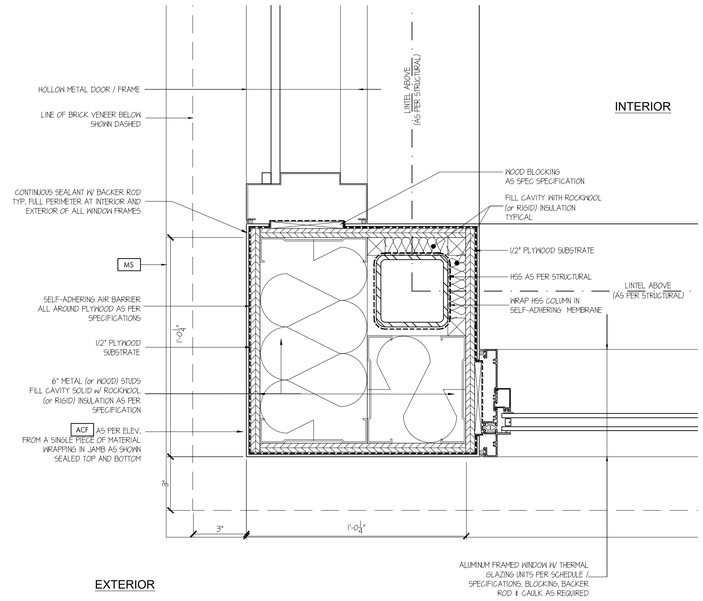
PLOTTED 3/31/2026 2:58 PM



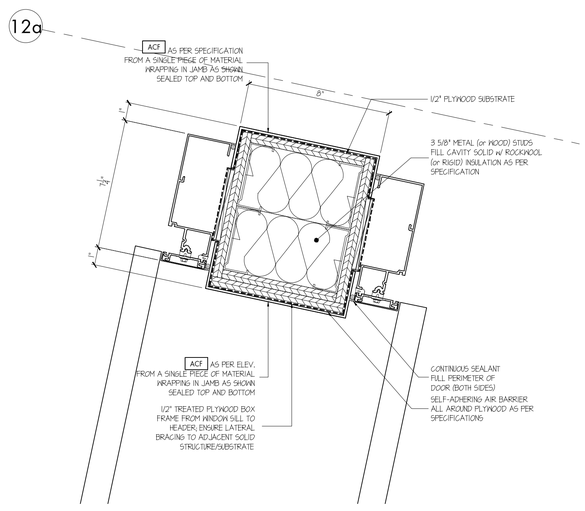

PLAN DETAIL: Fire Rating of Column in Stud Wall (60 / A2-1)
SCALE: 3" = 1'-0"



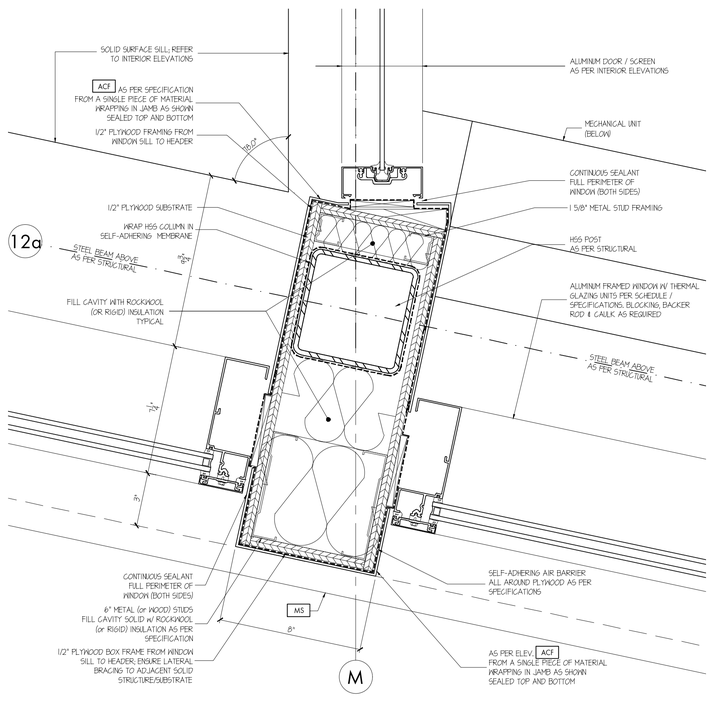

PLAN DETAIL: Column Between Windows (61 / A2-1)
SCALE: 3" = 1'-0"



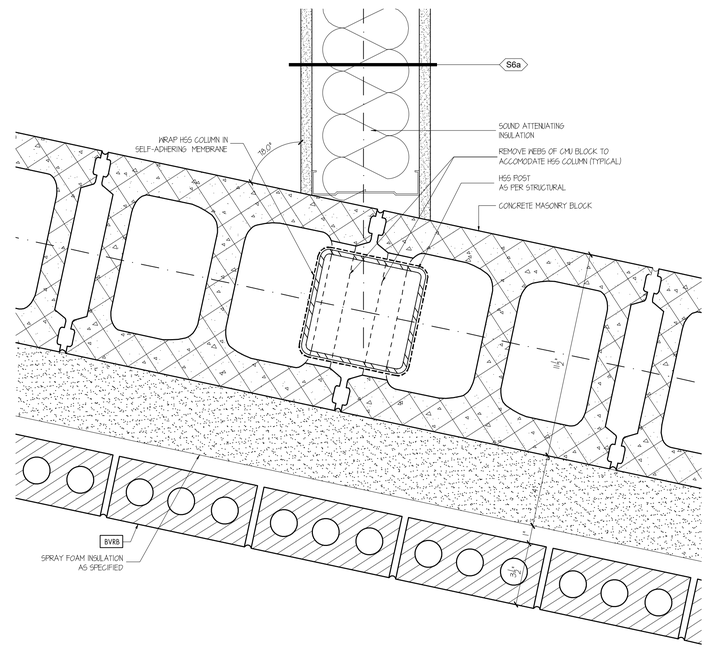

PLAN DETAIL: Typical Corner Post (62 / A2-1)
SCALE: 3" = 1'-0"




PLAN DETAIL (63 / A2-2)
SCALE: 3" = 1'-0"




PLAN DETAIL (64 / A2-2)
SCALE: 3" = 1'-0"




PLAN DETAIL (65 / A2-2)
SCALE: 3" = 1'-0"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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
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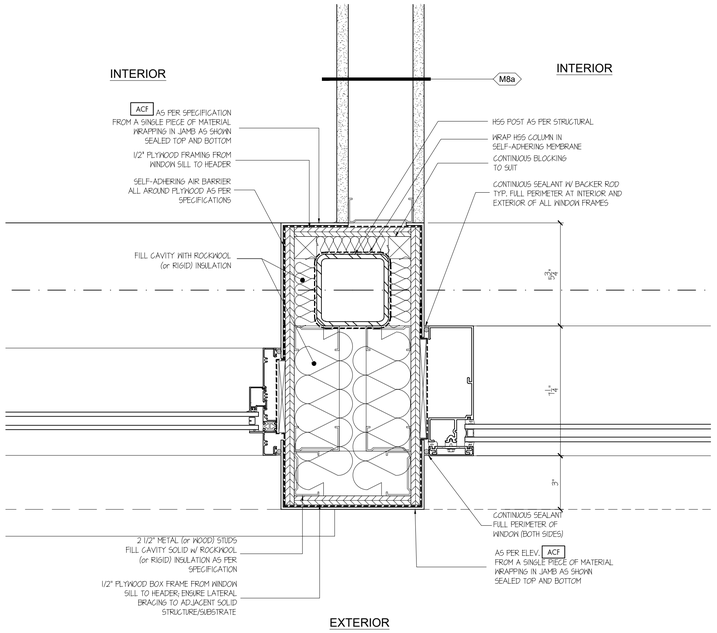
DRAWING TITLE:

**Plan Details**

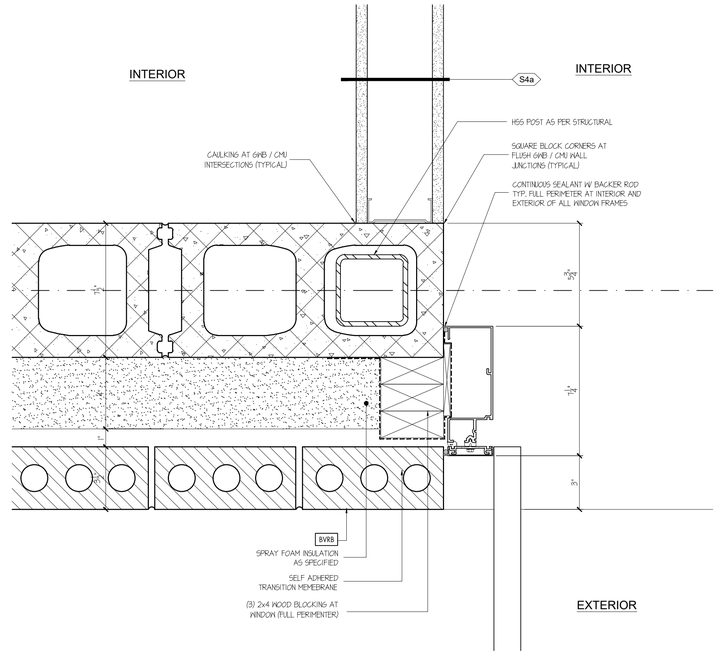
SCALE: As Noted
DRAWN: D.V.
DATE: October 2025
PROJECT #: 2501
DRAWING #: A5-6

PLOTTED 3/31/2026 2:59 PM



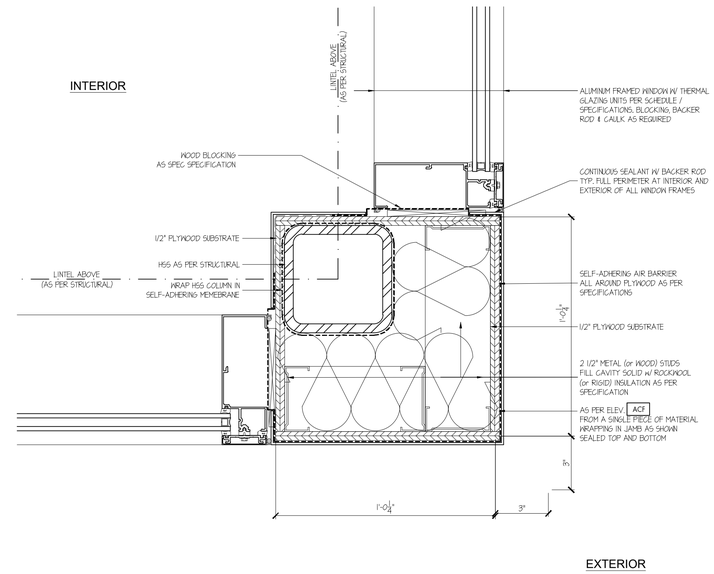

PLAN DETAIL: HSS at Aluminum Cap Flashing (66 / A2-2)

SCALE: 3" = 1'-0"




PLAN DETAIL: HSS Below Window (67 / A2-2)

SCALE: 3" = 1'-0"

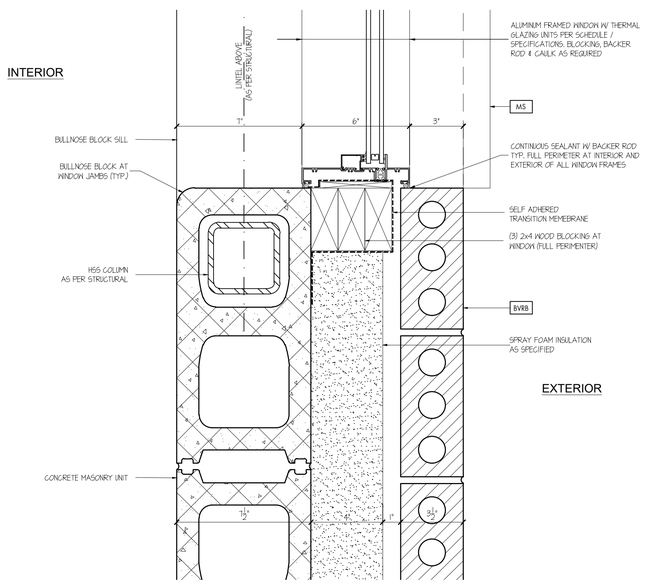



PLAN DETAIL: Corner Post at Vestibule [128-1] (68 / A2-2)

SCALE: 3" = 1'-0"

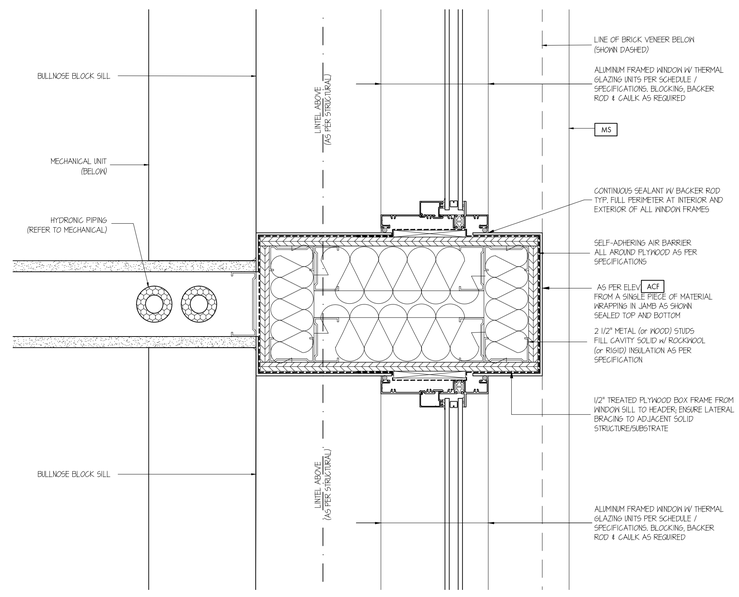
RESERVED

SCALE: 3" = 1'-0"




PLAN DETAIL: HSS Post at Window (69 / A2-2)

SCALE: 3" = 1'-0"




PLAN DETAIL: Aluminum Cap Flashing Between Windows (70 / A2-2)

SCALE: 3" = 1'-0"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| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

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Welland, ON

For the DSBN

SEAL:

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DRAWING TITLE:

## Plan Details

SCALE: As Noted

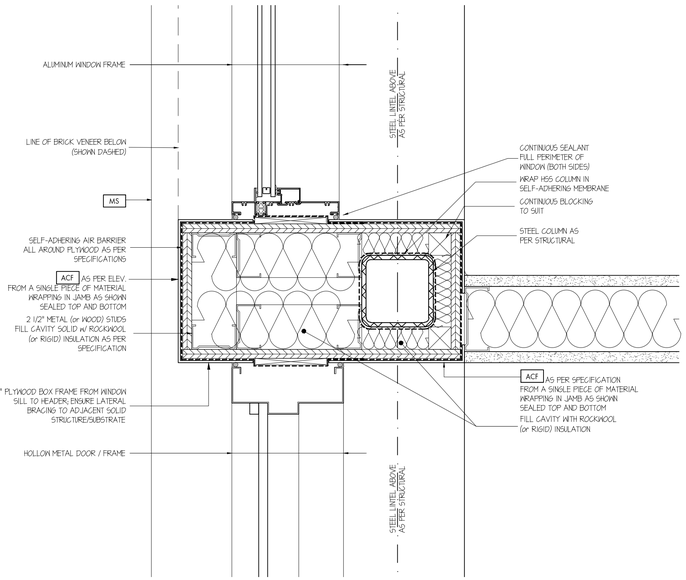
DRAWN: D.V.

DATE: October 2025

PROJECT #: 2501

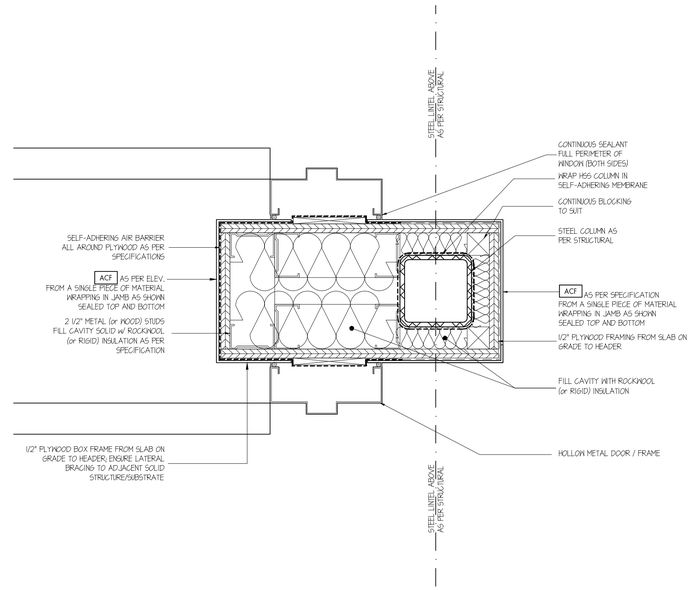
DRAWING #: A5-7

PLOTTED 3/31/2026 2:38 PM



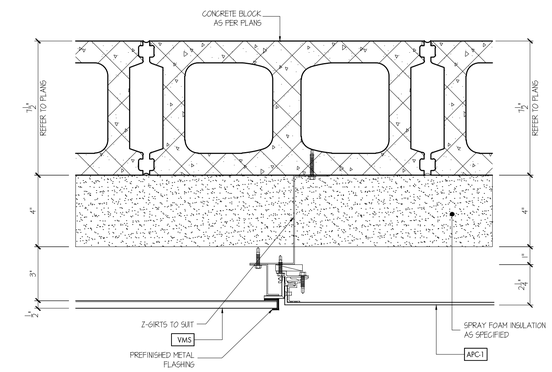

TYP. PLAN DETAIL: Exterior Column Between Window and Door (71 / A2-1)

SCALE: 3" = 1'-0"



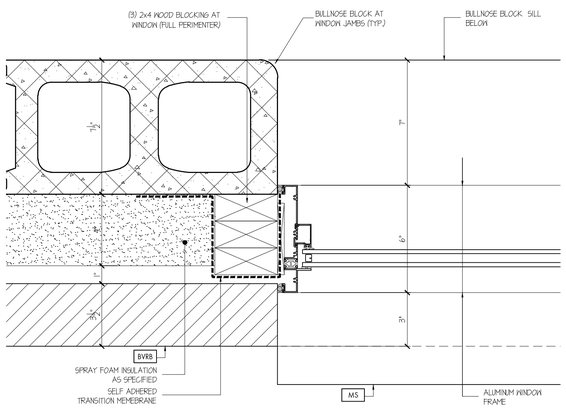

TYPICAL PLAN DETAIL: Exterior Column Between Doors (72 / A2-1)

SCALE: 3" = 1'-0"



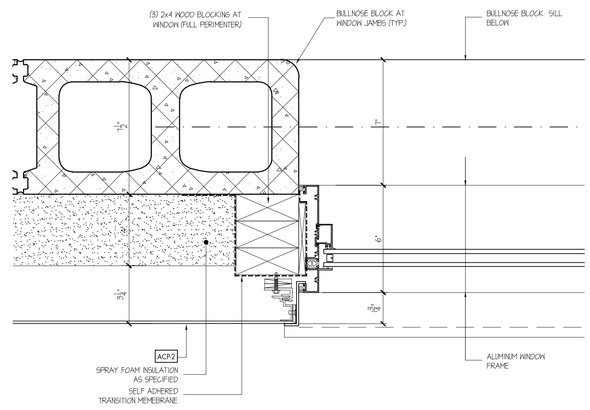

TYPICAL PLAN DETAIL: [VMS] at [ACP] (73 / A3-1)

SCALE: 3" = 1'-0"



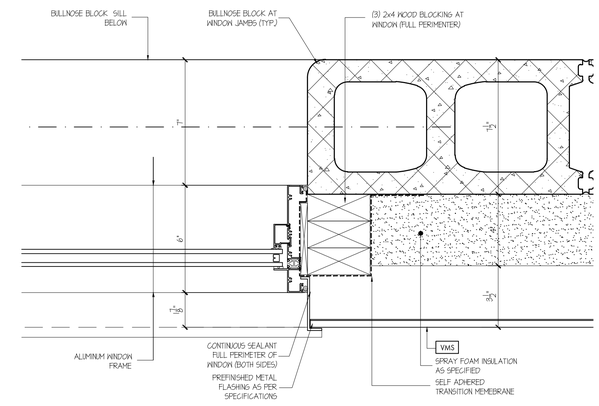

TYPICAL PLAN DETAIL: Window Jamb at [BVRB] (74 / A2-1)

SCALE: 3" = 1'-0"




TYPICAL PLAN DETAIL: Window Jamb at [ACP-2] (75 / A2-3)

SCALE: 3" = 1'-0"




TYPICAL PLAN DETAIL: Window Jamb at [VMS-2] (76 / A2-3)

SCALE: 3" = 1'-0"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PROJECT:

**Proposed New:**

# Elementary School

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Welland, ON

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SEAL:

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www@whitelinearchitects.com


DRAWING TITLE:

**Plan Details**

SCALE: As Noted

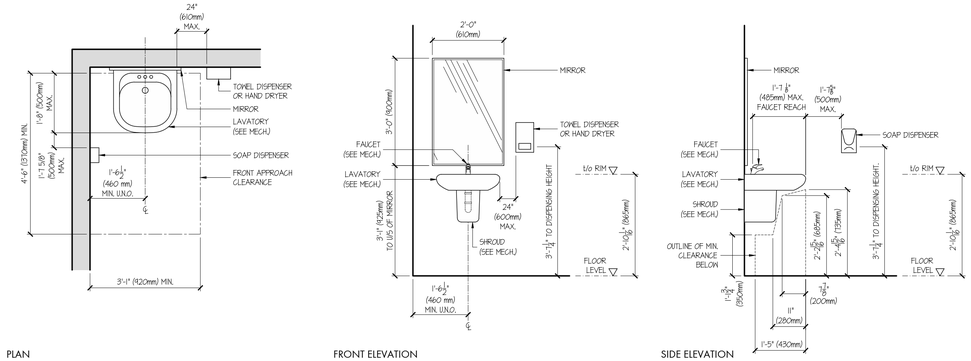
DRAWN: D.V.

DATE: October 2025

PROJECT #: 2501

DRAWING #: A5-8

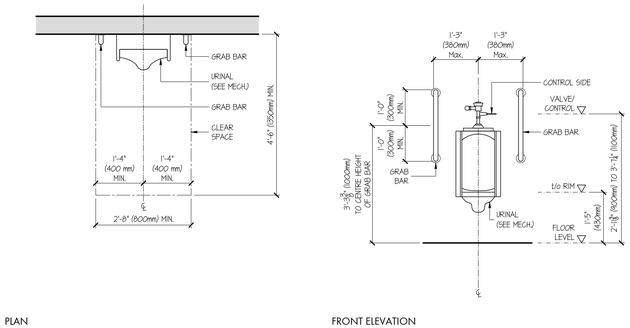
PLOTTED 3/31/2026 2:38 PM




PLAN FRONT ELEVATION SIDE ELEVATION

## DETAIL: Typ. B.F. Lavatory

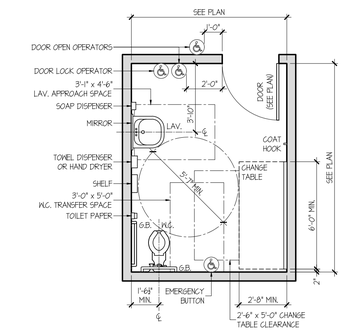
SCALE: 1/2" = 1'-0"




PLAN FRONT ELEVATION

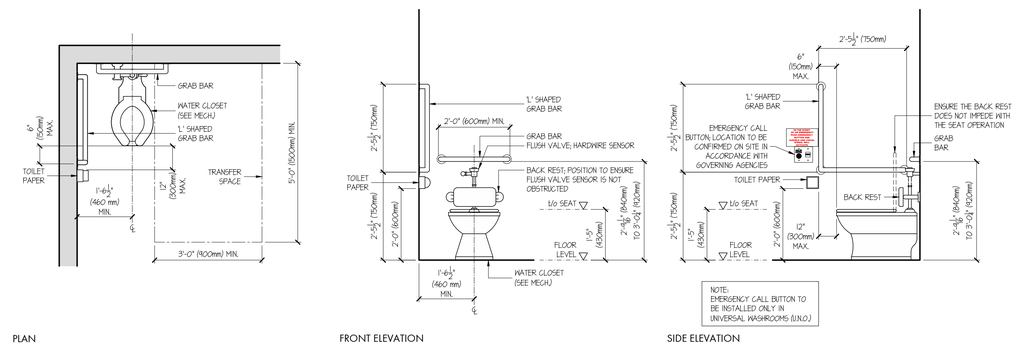
## DETAIL: Typ. B.F. Urinal

SCALE: 1/2" = 1'-0"




## PLAN DETAIL: Universal Washroom

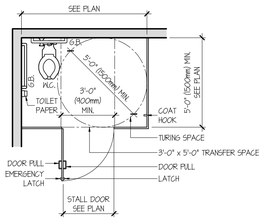
SCALE: 1/4" = 1'-0"




PLAN FRONT ELEVATION SIDE ELEVATION

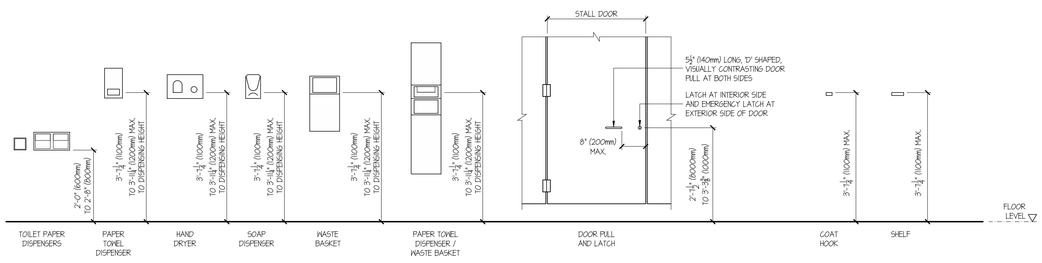
## DETAIL: Typ. B.F. Water Closet (Flush Valve Sensor Type)

SCALE: 1/2" = 1'-0"



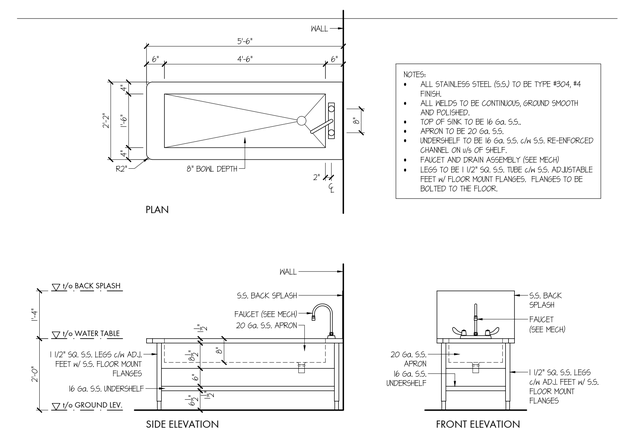

## PLAN DETAIL: Typ. B.F. Stall

SCALE: 1/2" = 1'-0"




## DETAIL: Typ. Washroom Accessories

SCALE: 1/2" = 1'-0"




## DETAIL: Typ. Water Table

SCALE: 1/2" = 1'-0"

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PROJECT:

**Proposed New:**

# Elementary School

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www@whitelinearchitects.com

DRAWING TITLE:

**Barrier Free Typical Details**

SCALE: As Noted

DRAWN: D.V.

DATE: October 2025

PROJECT #: 2501

DRAWING #: A5-9

PLOTTED 3/31/2026 2:58 PM

## CEILING FEATURES:

### Architectural Items:

- X'-X" — FINISHED CEILING HEIGHT (TO UNDERSIDE) ABOVE FINISHED FLOOR.
- EXP — EXPOSED OVERHEAD STRUCTURE, w/s DECK, SLAB & ALL RELATED HVAC ITEMS.
- # — ROOM IDENTIFICATION NUMBER.
- S.A.T.-1 (STANDARD LAY-IN TILE). TILE AND GRID SYSTEM AS PER SPECIFICATIONS
- S.A.T.-2 (HIGH-NRC LAY-IN TILE). TILE AND GRID SYSTEM AS PER SPECIFICATIONS
- GWB (CEILINGS AND BULKHEADS). GYPSUM WALL BOARD CEILING BULKHEAD (5/8" GWB ON 3 5/8" STEEL STUDS @ 16" o/c CONTINUOUS TO DECK ABOVE OR SUSPENDED FURRING STRIPS TO SUIT); PAINT AS PER ROOM FINISH SCHEDULE.
- PMS (PREFINISHED METAL SOFFIT). 5 1/4" x 7 1/16" DISTICTION METAL SOFFIT (AS PER SPECIFICATIONS) AS MANUFACTURED BY METAL UNIQ IN WOOD SHADE COLOUR #T13 CEDARWOOD; INSTALL SOFFIT IN DIRECTIONS ILLUSTRATED HERON (PERPENDICULAR TO BUILDING PERIMETER)

### Electrical Items:

- A, AA, B — RECESSED 24" x 48" LED LUMINAIRE AS PER ELECTRICAL
- C, E, F, S — 4'-0" SURFACE OR SUSPENDED LED STRIP LIGHT FIXTURE AS PER ELECTRICAL
- H, HH — RECESSED (DRYWALL) 12" x 48" LED LUMINAIRE AS PER ELECTRICAL
- G — SUSPENDING GYMNASIUM LED LUMINAIRE AS PER ELECTRICAL
- EH — SOFFIT MOUNTED LUMINAIRE AS PER ELECTRICAL
- Q, R — RECESSED LED POT LIGHT LUMINAIRE AS PER ELECTRICAL
- P — LED WALL SCONCE AS PER ELECTRICAL
- M — LED PENDANT LIGHT AS PER ELECTRICAL; MOUNTING HEIGHTS AS PER ARCHITECTURAL
- N — LED PENDANT LIGHT AS PER ELECTRICAL; MOUNTING HEIGHTS AS PER ARCHITECTURAL
- S — 4'-0" LED LIGHT FIXTURE (BLACK LIGHT) AS PER ELECTRICAL
- U,V,T — SUSPENDED LED LUMINAIRE DIRECT/INDIRECT AS PER ELECTRICAL: T - 6FT. LONG; U - 8FT. LONG; V - 12FT. LONG
- K — ELEVATOR WALL MOUNTED LIGHT LUMINAIRE AS PER ELECTRICAL

### Mechanical Items:

- SUPPLY AIR DIFFUSER: 24"x24" AS PER MECHANICAL; 12"x12" AS PER MECHANICAL
- LINEAR SUPPLY AIR DIFFUSER: AS PER MECHANICAL
- RETURN AIR GRILLE: SIZE AS PER MECHANICAL
- EXHAUST FAN and/or GRILLE: SIZE AS PER MECHANICAL

NOTES:

- ALL MECHANICAL & ELECTRICAL CEILING FEATURES ARE TO BE LOCATED IN POSITIONS SHOWN ON ARCHITECTURAL DRAWINGS THROUGHOUT. ITEMS SHOWN ON MECHANICAL & ELECTRICAL DRAWINGS PROVIDE GENERAL LOCATIONS ONLY; FINAL & SPECIFIC LOCATIONS TO BE AS PER ARCHITECTURAL DRAWINGS (TYP.)

# REFELCTED CEILING PLAN: First Floor

SCALE: 1/8" = 1'-0"


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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8867


WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

## Partial First Floor Reflected Ceiling Plan

SCALE: As Noted

DRAWN: DWG

DATE: APRIL 2025

PROJECT #: 2501

DRAWING #: A6-1

PLOTTED 3/31/2026 3:00 PM

REFLECTED CEILING PLAN: First Floor (North)

SCALE: 1/8" = 1'-0"

**THESE DRAWINGS ARE NOT TO BE SCALED**

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|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

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DRAWING TITLE:

**Partial First Floor Reflected Ceiling Plan**

SCALE: As Noted

DRAWN: DWG

DATE: APRIL 2025

PROJECT #: 2501

DRAWING #: A6-2

PLOTTED 3/31/2026 2:57 PM

REFLECTED CEILING PLAN: Second Floor

SCALE: 1/8" = 1'-0"


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PROJECT:

**Proposed New:**

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DRAWING TITLE:

## Second Floor Reflected Ceiling Plan

SCALE: As Noted

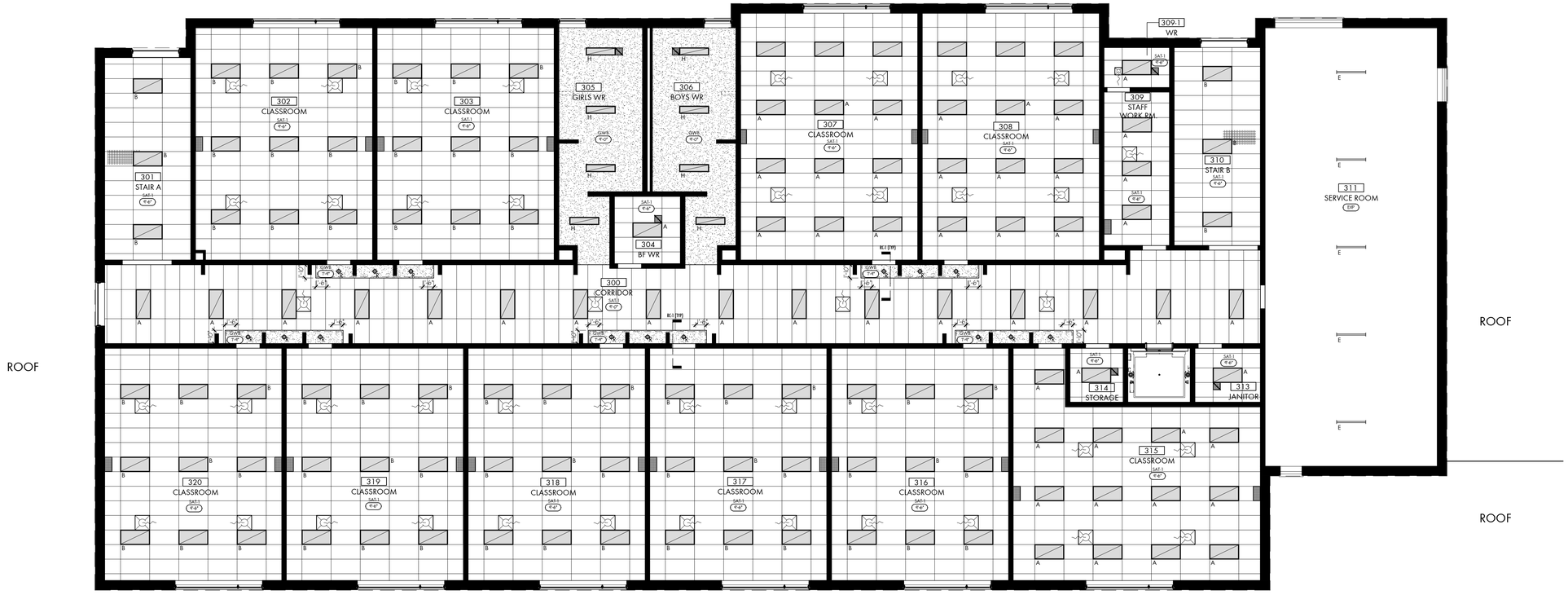
DRAWN: SB

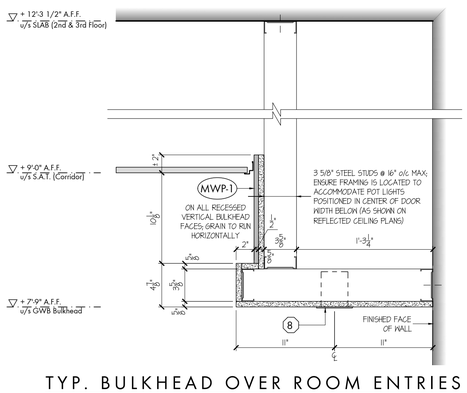
DATE: APRIL 2025

PROJECT #: 2501

DRAWING #: A6-3

PLOTTED 3/31/2026 2:59 PM




TYP. BULKHEAD OVER ROOM ENTRIES (RC-1)

SCALE: 1 1/2" = 1'-0"

REFLECTED CEILING PLAN: Third Floor

SCALE: 1/8" = 1'-0"

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PROJECT:

**Proposed New:**

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DRAWING TITLE:

## Third Floor Reflected Ceiling Plan

SCALE:
As Noted

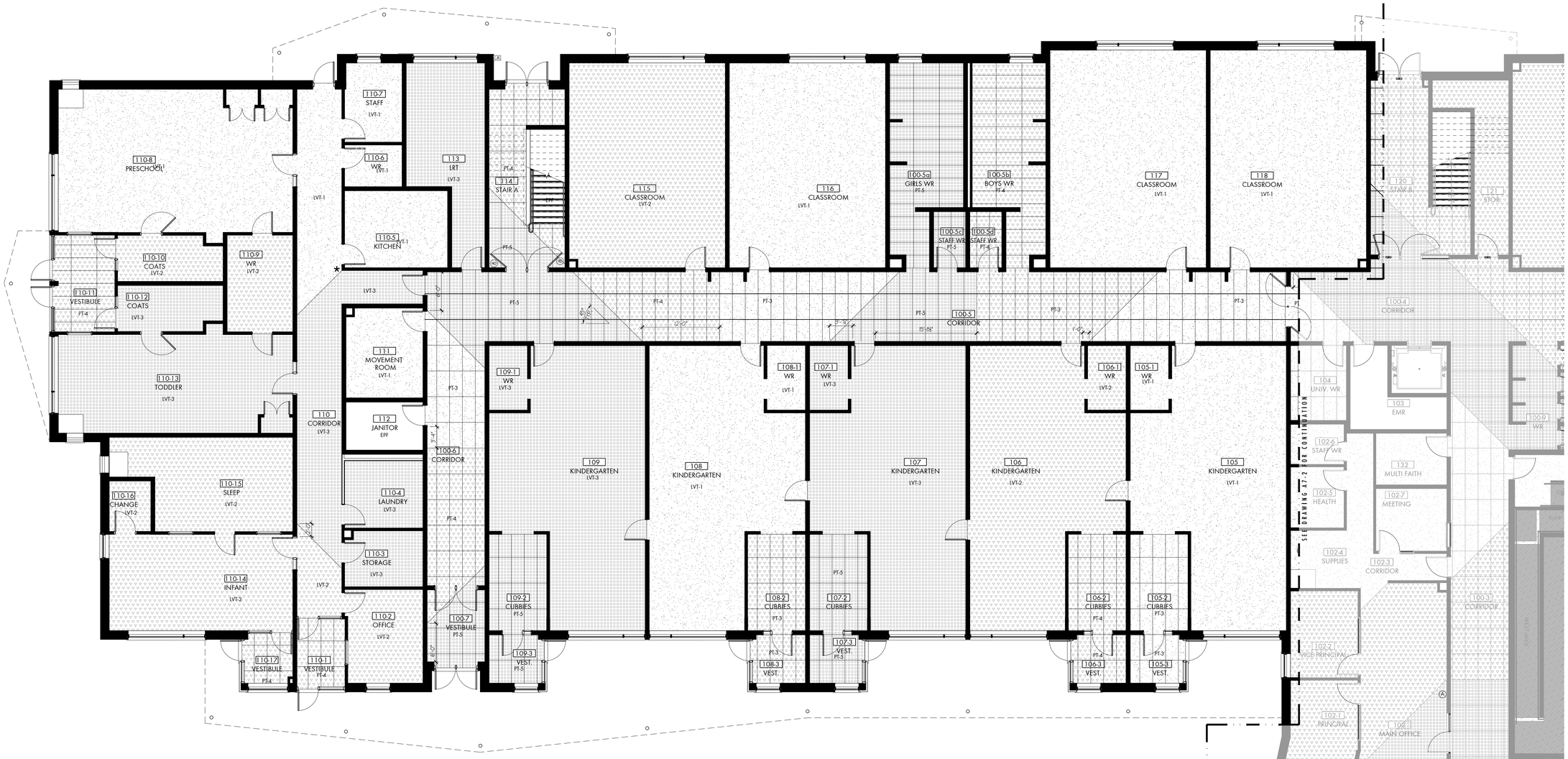
DRAWN:
DWG

DATE:
APRIL 2025

PROJECT #:
2501

DRAWING #:
A6-4

PLOTTED 3/31/2026 2:58 PM




## NEW FLOORING FINISHES:

### LUXURY VINYL TILE FLOORING:

| Designation | Product Specification |
|---|---|
| LVT-1 | LUXURY VINYL TILE 1: 12" x 36" x 3mm THICK TARKETT CONTOUR SERIES 'PALLADIAN' IN COLOUR TERRACE #4663 QU |
| LVT-2 | LUXURY VINYL TILE 2: 12" x 36" x 3mm THICK TARKETT CONTOUR SERIES 'PALLADIAN' IN COLOUR PALAZZO #4662 QU |
| LVT-3 | LUXURY VINYL TILE 3: 12" x 36" x 3mm THICK TARKETT CONTOUR SERIES 'PALLADIAN' IN COLOUR MYSTIC BEIGE #4654 QU |

★ DENOTES LAYOUT STARTING POINT / ALIGNMENT POINT FOR LVT PATTERN

### RUBBER TILE FLOORING:

| Designation | Product Specification |
|---|---|
| RST-1 | RUBBER STAIR TREAD 1 (AT STAGE AREA STAIRS): TARKETT ANGLEFIT ONE-PIECE 'HAMMERED TREAD / RISER VISUALLY IMPAIRED' 'VIHNTR' IN COLOUR-SPLASH SPECKLED COLOURWAY IN COLOUR 'VF5 60RGE AREAA C/M SILVER GREY #55 VISUALLY IMPAIRED RUBBER INSET STRIP |

### PORCELAIN TILE FLOORING:

| Designation | Product Specification |
|---|---|
| PT-3 | PORCELAIN TILE 3: 24" x 48" x 8mm THICK MIRAGE 'RE-STONE' (AS SUPPLIED BY CENTURA) IN COLOUR 'DUNE LINE' |
| PT-4 | PORCELAIN TILE 4: 24" x 48" x 8mm THICK MIRAGE 'RE-STONE' (AS SUPPLIED BY CENTURA) IN COLOUR 'ICELANDIC HAMMERED' |
| PT-5 | PORCELAIN TILE 5: 24" x 48" x 8mm THICK MIRAGE 'RE-STONE' (AS SUPPLIED BY CENTURA) IN COLOUR 'SAFARI ARROW' |

### RUBBER TILE FLOORING (Continued):

| Designation | Product Specification |
|---|---|
| RT-1 | RUBBER TILE 1 (AT RAMPS AND LANDINGS ADJACENT TO RST-1): RUBBER TILE: 24" X 24" X 1/8 THICK TARKETT COLOUR SPLASH RUBBER TILE IN COLOUR 'VF5 60RGE AREA' IN HAMMERED FINISH<br><br>TACTILE WARNING SURFACE (IMMEDIATELY ABOVE UPPERMOST STEP IN EACH STAIR FLIGHT). 300 mm DEEP TARKETT STUDDED CIRCLE 'TACTILE WARNING SURFACE VINYL TILE' LOCATED 300 mm FROM ADJACENT STAIR NOSING AND EXTENDING FULL WIDTH OF STAIR; PRODUCT COLOUR TO BE #55 SILVER GREY |
| RT-2 | RUBBER TILE 2 (INSET VISUAL ACUITY STRIPS AT RT-1): RUBBER TILE: 24" X 24" X 1/8 THICK TARKETT COLOUR SPLASH RUBBER TILE IN COLOUR 'VET MT. RAINER' IN HAMMERED FINISH CUT TO 6" WIDTHS AND INSET INTO RT-1 (WHERE SHOWN ON DRAWINGS) |

### WATERPROOF FLOORING :

| Designation | Product Specification |
|---|---|
| WPFS | WATERPROOF FLOORING SYSTEM (SERVICE ROOMS 211 & 311.) AS PER SPECIFICATIONS |

### EPOXY PAINT FINISH / FLOORING :

| Designation | Product Specification |
|---|---|
| EPF | EPOXY PAINT FINISH FLOORING: SLIP-RETARDANT 60 MIL EPOXY FLOOR COATING AS PER SPECIFICATIONS |

### CONCRETE SEALER & HARDENER :

| Designation | Product Specification |
|---|---|
| CSH | CONCRETE SEALER & HARDENER: CLEAR CONCRETE SEALER AND HARDENER AS PER SPECIFICATIONS |

### SPRUNG HARDWOOD FLOOR :

| Designation | Product Specification |
|---|---|
| SHWF | SPRUNG HARDWOOD FLOORING: SPRUNG HARDWOOD GYMNASIUM FLOORING WITH PAINTED GAMELINE MARKINGS AND RUBBER VENT-COVE BASE AS PER SPECIFICATIONS AND FLOORING LAYOUT DRAWINGS |

### WALL BASE:

| Designation | Product Specification |
|---|---|
| RB-1 | RUBBER BASE-1 (GENERAL-USE AT ALL RESILIENT FLOORS (UNO): 4" HIGH RUBBER BASE AS PER SPECIFICATIONS IN COLOUR #VKT MT RAINIER |
| RB-2 | RUBBER BASE-2 (AT STAGE AREAS (WHERE NOTED): 4" HIGH RUBBER BASE AS PER SPECIFICATIONS IN COLOUR #20 CHARCOAL |
| PTB | PORCELAIN TILE BASE (AT ALL PT-# FLOORS): PORCELAIN TILE BASE TO MATCH ADJACENT PORCELAIN TILE FLOORS (CUT TO 4" HIGH X 48" LONG FROM PORCELAIN FLOOR TILE TO SUIT) |

### General Flooring Notes:

1. ALL FLOORING MATERIALS AND RELATED WALL TILES TO BE INSTALLED IN FULL ACCORDANCE WITH SPECIFICATIONS AND RELATED ARCHITECTURAL DETAILS.
2. TRANSITION STRIPS ARE TO BE SUPPLIED AND INSTALLED AT ALL TRANSITIONS BETWEEN DISSIMILAR FLOOR FINISHES AS PER SPECIFICATIONS.
3. TILE EDGING STRIPS ARE TO BE USED AT ALL TILE EDGES AS NOTED IN SPECIFICATIONS.
4. ALL FLOORING MATERIALS ARE TO BE INSTALLED ONLY ONCE ALL SUBFLOOR CONDITIONS ENSURING PROPER INSTALLATION ARE MET (INCLUDING CONCRETE MOISTURE CONTENT, LEVELING AND PATCHING OF IRREGULARITIES AND JOINTS, ETC.). ANY FLOORING MATERIALS EXHIBITING IMPROPER ADHESION, SIGNS OF TELEGRAPHING, CALENDARING OR IRREGULARITIES THROUGH THE FINISHED SUBFLOOR, ETC., MAY BE DEEMED UNSUITABLE, REQUIRING RECTIFICATION TO THE ARCHITECT'S STANDARDS AT NO ADDITIONAL EXPENSE.

## FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"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| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

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ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

## Partial First Floor Flooring Plan

SCALE: As Noted

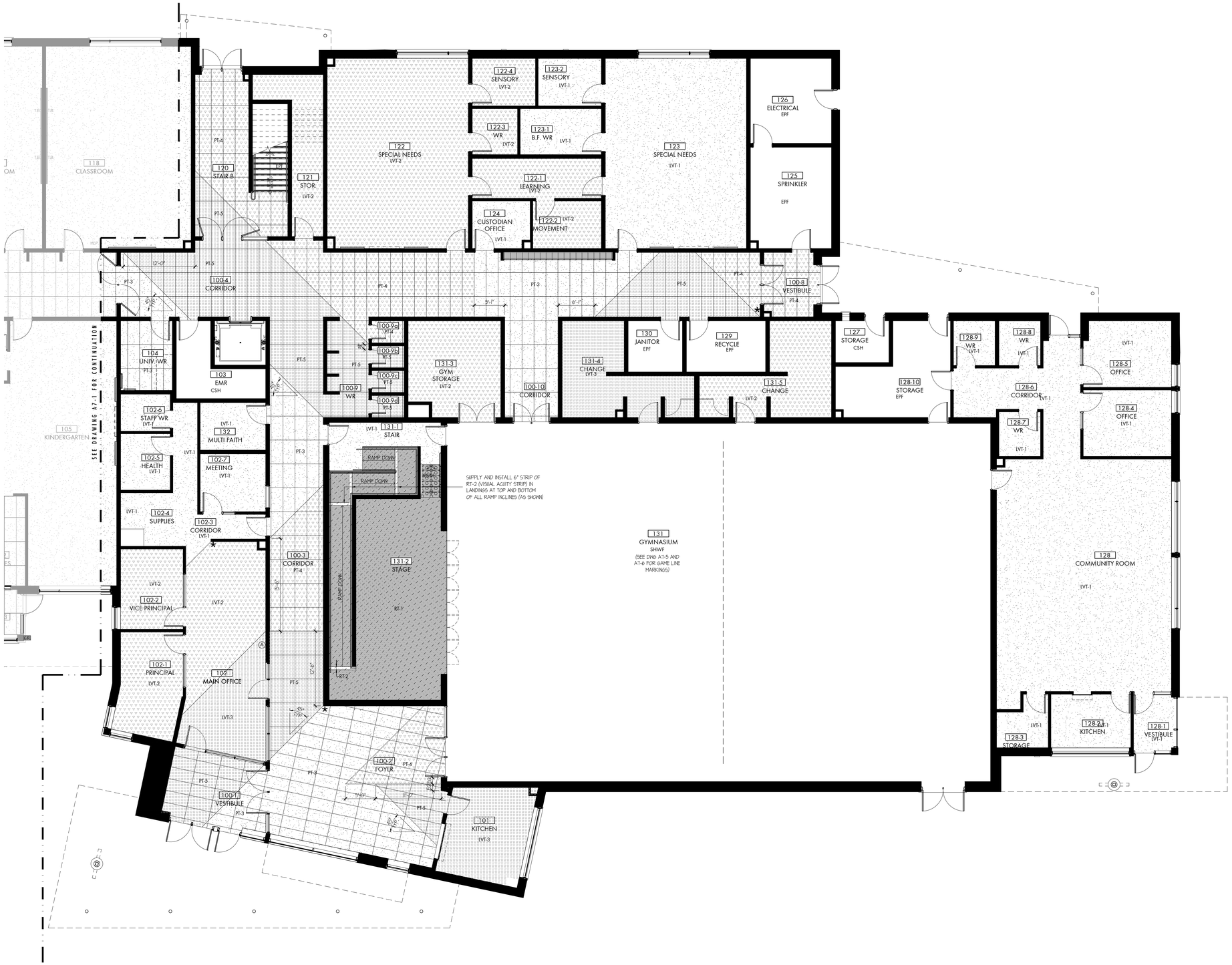
DRAWN: SB

DATE: APRIL 2025

PROJECT #: 2501

DRAWING #: A7-1

PLOTTED 3/31/2026 2:59 PM




# FIRST FLOOR PLAN

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PROJECT:

**Proposed New:**

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DRAWING TITLE:

**Partial First Floor Flooring Plan**

SCALE: As Noted

DRAWN: DWG

DATE: APRIL 2025

PROJECT #: 2501

DRAWING #: A7-2

PLOTTED 3/31/2026 2:57 PM

## SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

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PROJECT:

**Proposed New:**

# Elementary School

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www@whitelinearchitects.com

DRAWING TITLE:

**Second Floor Flooring Plan**

SCALE:
As Noted

DRAWN:
DWG

DATE:
APRIL 2025

PROJECT #:
2501

DRAWING #:
A7-3

PLOTTED 3/31/2026 2:58 PM

THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"

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PROJECT:

**Proposed New:**

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DRAWING TITLE:

## Third Floor Flooring Plan

SCALE: As Noted

DRAWN: DWG

DATE: APRIL 2025

PROJECT #: 2501

DRAWING #: A7-4

PLOTTED 3/31/2026 3:00 PM

# LEGEND

- BASKETBALL BACKBOARD & NET (ABOVE)
- V.S. — VOLLEYBALL FLOOR SOCKET
- B.S. — BADMINTON FLOOR SOCKET
- ℄ — CENTRELINE DIMENSION
- O.D. — OUTSIDE DIMENSION

LINE OVERLAP PRIORITY:



MAIN BASKETBALL LINES
MAIN VOLLEYBALL LINES
BADMINTON LINES
SECONDARY VOLLEYBALL LINES

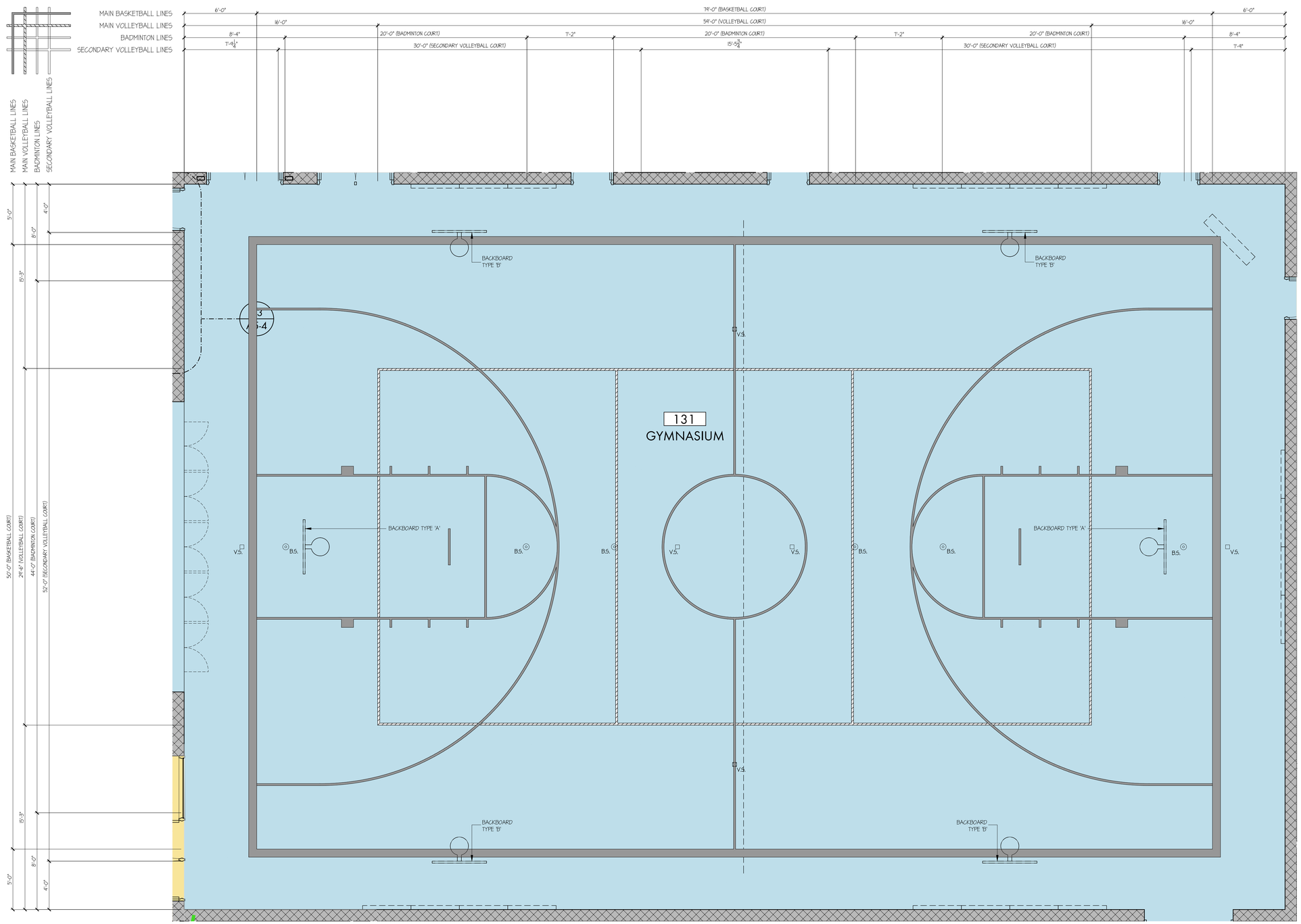
PAINTED COURT LINES IN PRIORITY:

- BLACK 8" & 2" MAIN BASKETBALL COURT LINES
- 2" MAIN VOLLEYBALL COURT LINES PAINT COLOUR TO BE SELECTED BY ARCHITECT
- WHITE 1 1/2" BADMINTON COURT LINES
- 2" SECONDARY VOLLEYBALL COURT LINES PAINT COLOUR TO BE SELECTED BY ARCHITECT
- 2" SECONDARY BASKETBALL KEY LINES PAINT COLOUR TO BE SELECTED BY ARCHITECT
- BASKETBALL 'KEY' AND BORDER FLOORING STAINED WITH COLOUR TO BE SELECTED BY ARCHITECT

BASKETBALL BACKSTOP TYPES

UNIT "A" - O.W.S.J. MOUNTED - FOLD UP TO CEILING WITH ELECTRIC WINCH - GLASS BACKBOARD
UNIT "B" - WALL MOUNTED - MANUAL SWING-BACK - STEEL BACKBOARD - ADJUSTABLE HEIGHT (8'-0" TO 10'-0")

NOTE: ALL BASKETBALL PAINT LINES ARE LOCATED RELATIVE TO BACKBOARD LOCATIONS DIMENSIONED ON THIS LAYOUT DRAWING SITE VERIFY BACKBOARD LOCATIONS PRIOR TO LINE LAYOUT, ANY DISCREPANCIES TO BE REPORTED TO ARCHITECT PRIOR TO PAINTING




## Gymnasium Gameline Markings

SCALE: 1/4" = 1'-0"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PROJECT:

**Proposed New:**

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www@whitelinearchitects.com


DRAWING TITLE:

**Gymnasium Gameline Markings**

SCALE: As Noted

DRAWN: C. Elwell

DATE: AUGUST 2025

PROJECT #: 2501

DRAWING #: A7-5

PLOTTED 3/31/2026 3:00 PM

# LEGEND

- BASKETBALL BACKBOARD & NET (ABOVE)
- V.S. — VOLLEYBALL FLOOR SOCKET
- B.S. — BADMINTON FLOOR SOCKET
- ℄ — CENTRELINE DIMENSION
- O.D. — OUTSIDE DIMENSION

PAINTED COURT LINES IN PRIORITY:

- BLACK 8" & 2" MAIN BASKETBALL COURT LINES
- 2" MAIN VOLLEYBALL COURT LINES PAINT COLOUR TO BE SELECTED BY ARCHITECT
- WHITE 1 1/2" BADMINTON COURT LINES
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BASKETBALL BACKSTOP TYPES

UNIT "A" - O.H.S.J. MOUNTED - FOLD UP TO CEILING WITH ELECTRIC WINCH - GLASS BACKBOARD

UNIT "B" - WALL MOUNTED - MANUAL SWING-BACK - STEEL BACKBOARD - ADJUSTABLE HEIGHT (8'-0" TO 10'-0")

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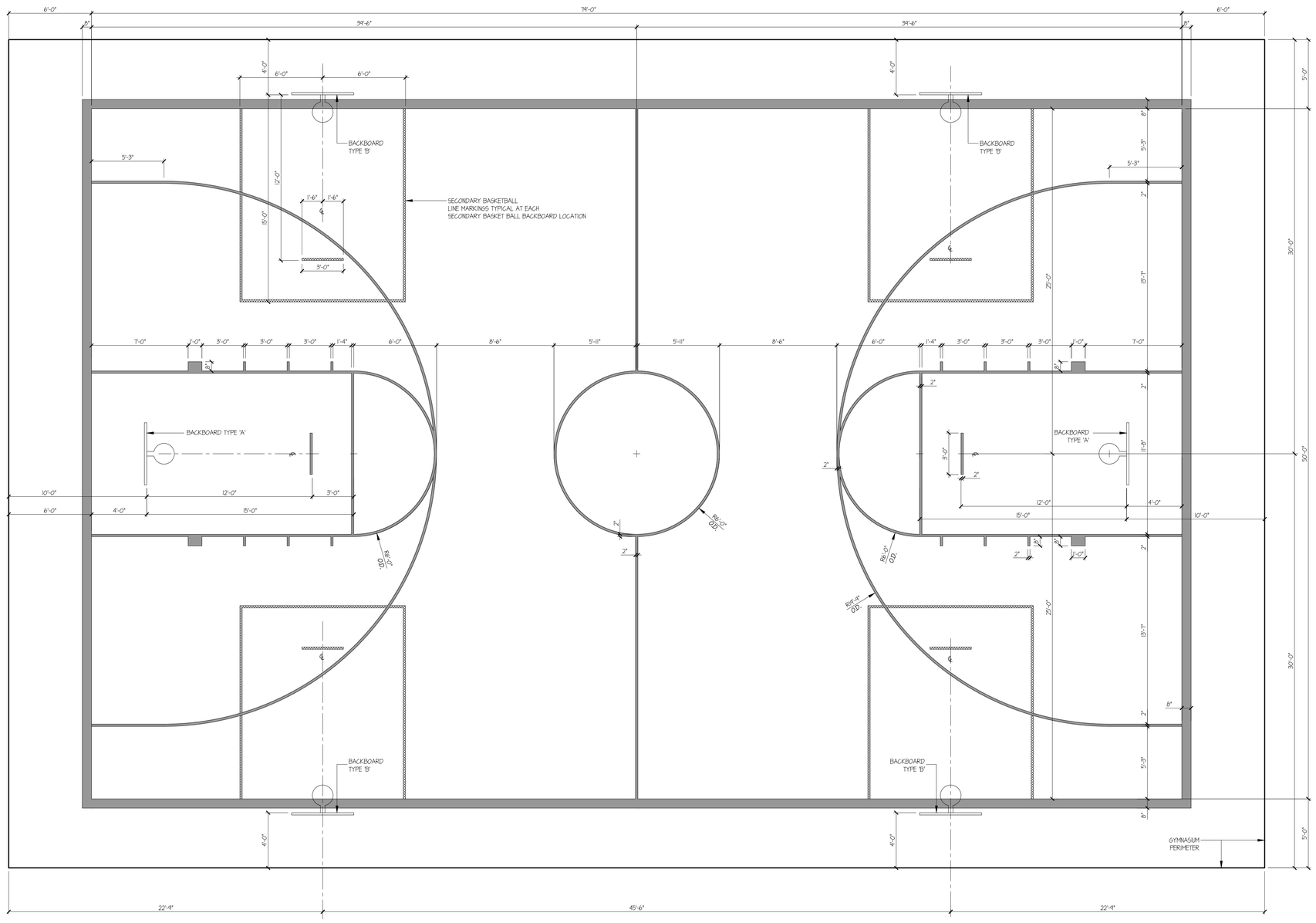


Main Basketball Court Dimensions (+ Secondary Basketball Key line-markings)

SCALE: 1/4" = 1'-0"

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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857

WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com

DRAWING TITLE:

**Gymnasium Basketball Court Dimensions**

SCALE: As Noted

DRAWN: C. Elwell

DATE: AUGUST 2025

PROJECT #: 2501

DRAWING #: A7-6

PLOTTED 3/31/2026 2:59 PM

# LEGEND

| | |
|---|---|
| ⊙ | BASKETBALL BACKBOARD & NET (ABOVE) |
| □V.S. | VOLLEYBALL FLOOR SOCKET |
| ⊗B.S. | BADMINTON FLOOR SOCKET |
| ℄ | CENTRELINE DIMENSION |
| O.D. | OUTSIDE DIMENSION |

PAINTED COURT LINES IN PRIORITY:

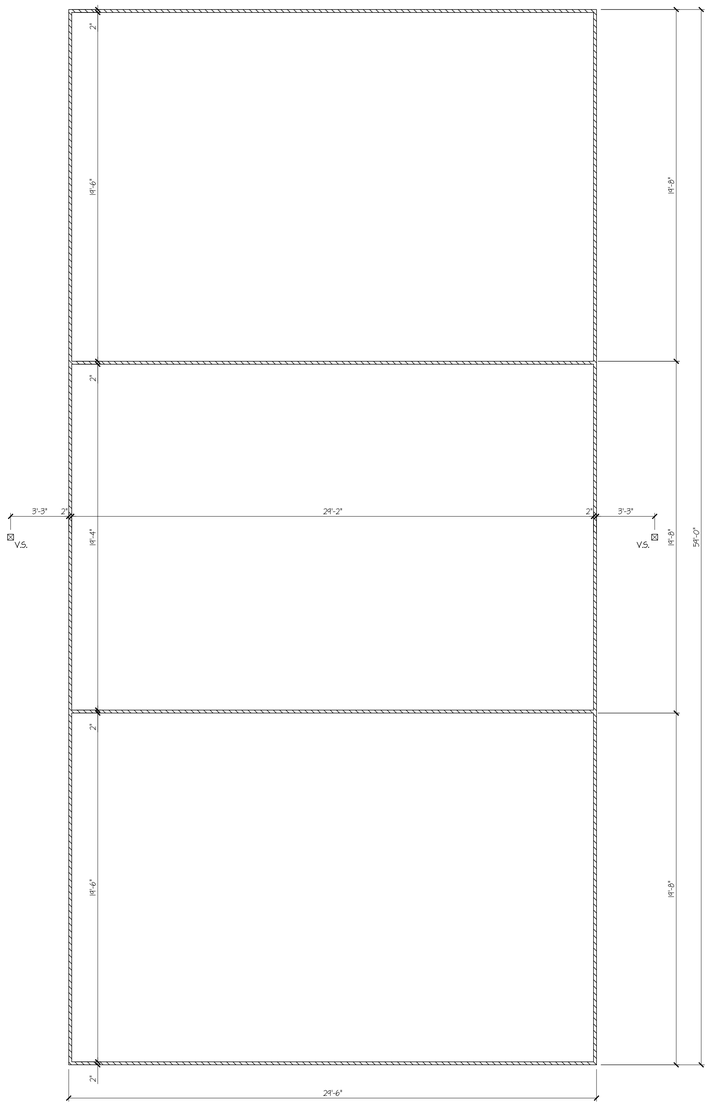
- BLACK 8" & 2" MAIN BASKETBALL COURT LINES
- 2" MAIN VOLLEYBALL COURT LINES PAINT COLOUR TO BE SELECTED BY ARCHITECT
- WHITE 1 1/2" BADMINTON COURT LINES
- 2" SECONDARY VOLLEYBALL COURT LINES PAINT COLOUR TO BE SELECTED BY ARCHITECT
- 2" SECONDARY BASKETBALL KEY LINES PAINT COLOUR TO BE SELECTED BY ARCHITECT

BASKETBALL BACKSTOP TYPES

UNIT "A" - O.H.S.I. MOUNTED - FOLD UP TO CEILING WITH ELECTRIC WINCH - GLASS BACKBOARD

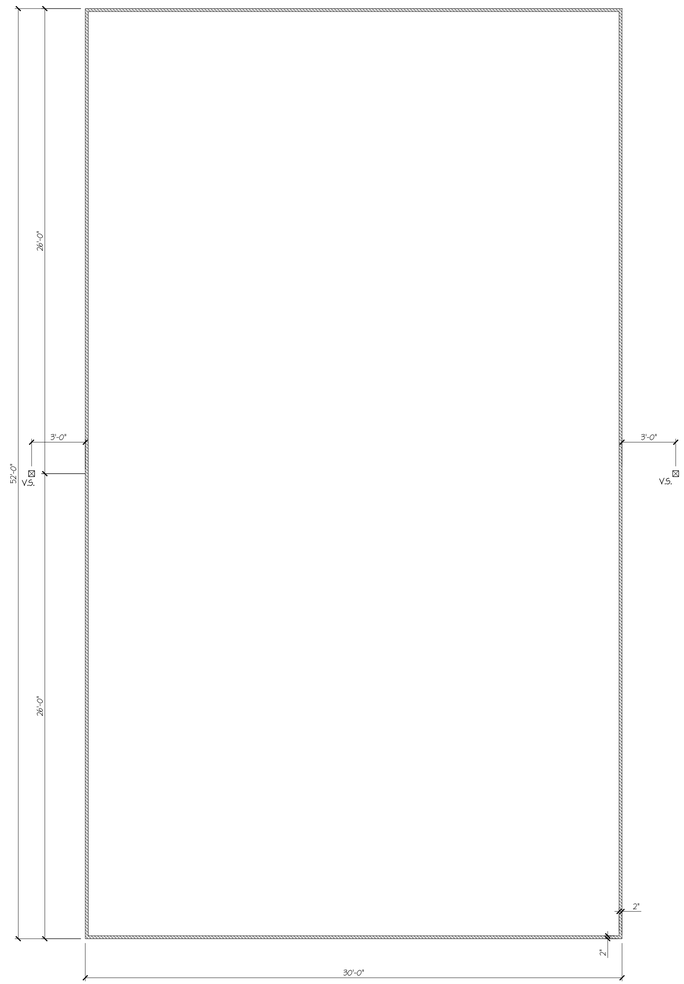
UNIT "B" - WALL MOUNTED - MANUAL SWING-BACK - STEEL BACKBOARD - ADJUSTABLE HEIGHT (8'-0" TO 10'-0")

NOTE: ALL BASKETBALL PAINT LINES ARE LOCATED RELATIVE TO BACKBOARD LOCATIONS DIMENSIONED ON THIS LAYOUT DRAWING SITE VERIFY BACKBOARD LOCATIONS PRIOR TO LINE LAYOUT, ANY DISCREPANCIES TO BE REPORTED TO ARCHITECT PRIOR TO PAINTING



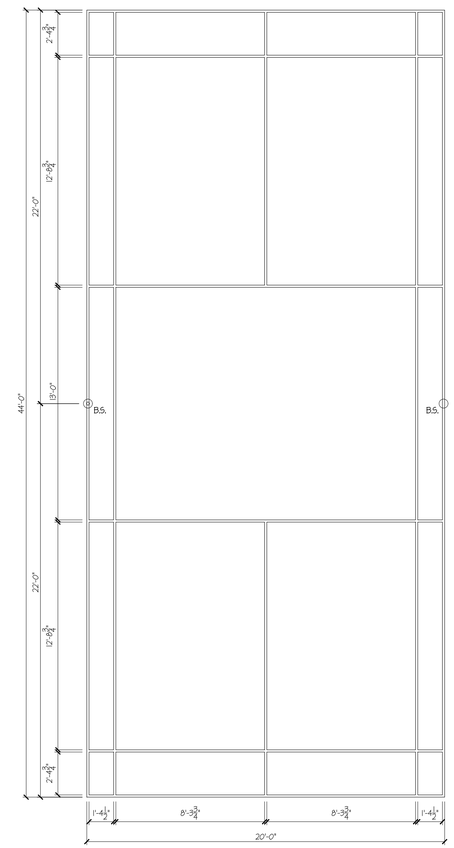

Main Volleyball Court Dimensions

SCALE: 1/4" = 1'-0"




Secondary Volleyball Court Dimensions

SCALE: 1/4" = 1'-0"




Badminton Court Dimensions

SCALE: 1/4" = 1'-0"

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DRAWING TITLE:

**Gymnasium Volleyball & Badminton Court Dimensions**

SCALE: As Noted

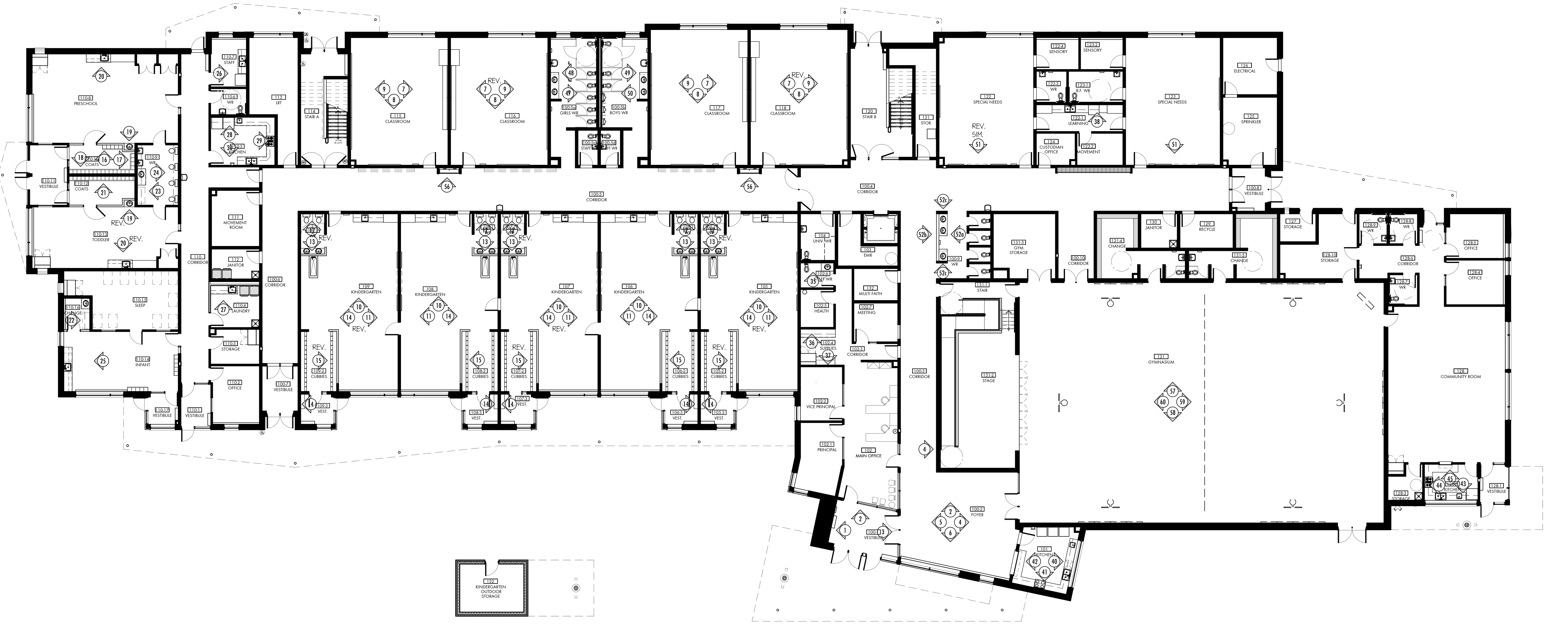
DRAWN: C. Elwell

DATE: AUGUST 2025

PROJECT #: 2501

DRAWING #: A7-7

PLOTTED 3/31/2026 2:58 PM

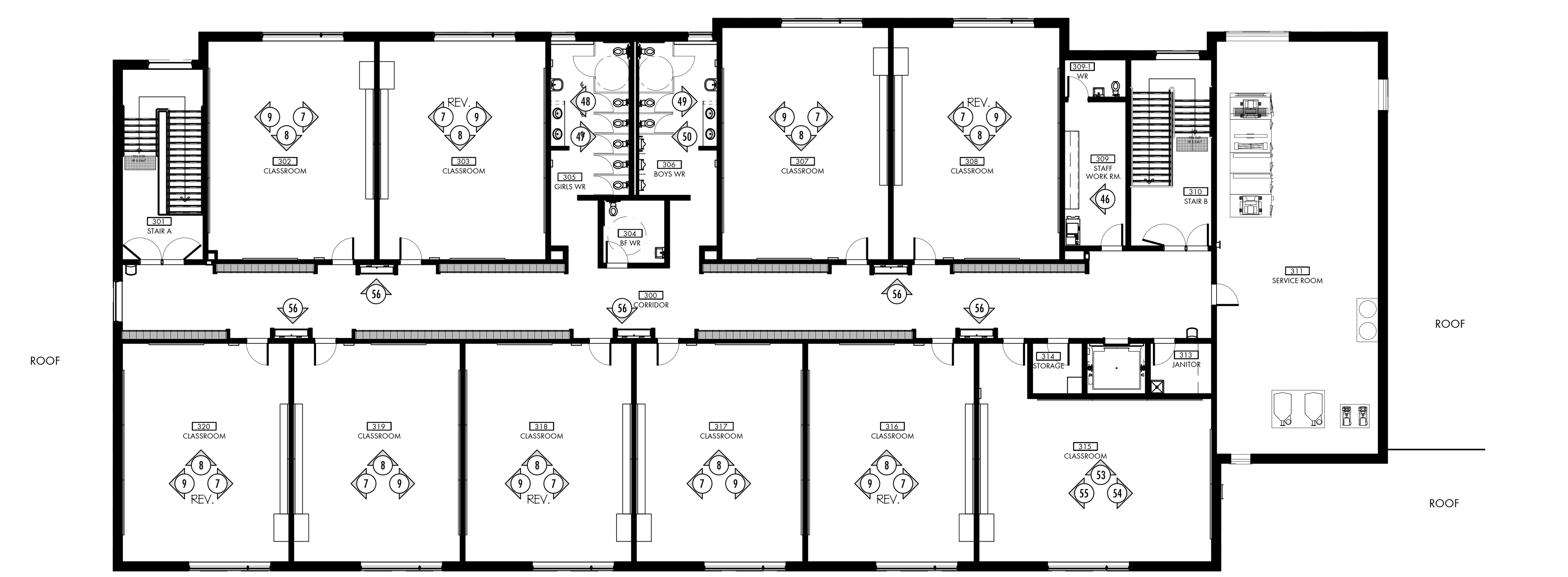



FIRST FLOOR KEY PLAN

SCALE: 1/16" = 1'-0"

SECOND FLOOR KEY PLAN

SCALE: 1/16" = 1'-0"




THIRD FLOOR KEY PLAN

SCALE: 1/16" = 1'-0"

## WALL FINISHES KEYING:

### WALL-TILE KEYING:

| Designation | Product Specification |
|---|---|
| CT-1 | CERAMIC TILE 1 : 2" x 8" EQUIPPE COSTA NOVA SERIES FLUTED CERAMIC TILE AS SUPPLIED BY CENTURA IN COLOUR ONDA TANSA GREEN MATT #CON28524; PRODUCT TO BE INSTALLED IN STACKED GRID PATTERN WITH LONG DIMENSION RUNNING VERTICALLY |
| CT-2x (CT-2a, CT-2b) | CERAMIC TILE 2: 2" x 8" EQUIPPE COSTA NOVA SERIES FLAT CERAMIC TILE AS SUPPLIED BY CENTURA IN COLOURS NOTED: CT-2a: BEIGE PALE MATT #CON 28467; CT-2b: TERRA MATT #CON28465. PRODUCT TO BE INSTALLED IN STACKED GRID PATTERN WITH LONG DIMENSION RUNNING VERTICALLY |
| CT-3x (CT-3a, CT-3b) | CERAMIC TILE 3: 3" x 12" CIFRE OVAL SERIES PATTERNED CERAMIC TILE [IN GLOSS FINISH] AS SUPPLIED BY CENTURA IN COLOURS NOTED: CT-3a: WHITE BRILLO #OVWH312; CT-3b: COBALT BRILLO #OVCO312. PRODUCT TO BE INSTALLED IN STACKED GRID PATTERN WITH LONG DIMENSION RUNNING VERTICALLY |
| PT-1 | PORCELAIN TILE 1: 12" x 24" x 9.0mm PORTOBELLO LAB SERIES PORCELAIN TILE IN COLOUR 'ASH NATURAL #900059E' AS SUPPLIED BY CENTURA; PRODUCT TO BE INSTALLED WITH LONG DIMENSION RUNNING VERTICALLY |
| PT-2 | PORCELAIN TILE 2: 12" x 24" x 9.0mm PORTOBELLO LAB SERIES PORCELAIN TILE IN COLOUR 'WHITE NATURAL #900058E' AS SUPPLIED BY CENTURA; PRODUCT TO BE INSTALLED WITH LONG DIMENSION RUNNING VERTICALLY |
| PMT | PORCELAIN MOSAIC TILE : 7/8" X 5 5/8" X 9.5mm THICK PORCELAIN FINGERS [SUPPLIED IN 12" X 12" MESH-MOUNTED SHEETS] TO BE 'CONCAVE BORDER' MOSAIC AS SUPPLIED BY CENTURA IN COLOUR 'WEATHERED GREY' AND PRODUCT #BHTH02126 |

### ACOUSTIC WALL PANELS:

| | |
|---|---|
| AWP | ACOUSTIC WALL PANEL: ACCENT DIGITAL 'RANURA R6-54' SLATTED WALL PANELS SUPPLIED IN 3/4" THICK x 23 5/8" WIDE x 96" OR 120" LONG SHEETS CUT TO SUIT THE REQUIRED DIMENSIONS; PRODUCT TO BE FINISHED IN WHITE OAK VENEER SLATS (WITH CLEAR TOPCOAT) |

### MILLWORK WALL PANELS:

| | |
|---|---|
| MWP-1 | MILLWORK WALL PANEL-1: 1/2" THICK MELAMINE #1 WALL PANEL (UNIBOARD #290 CLASSIC MAPLE IN SUPERMAT FINISH C/W MATCHING 1.0MM PVC EDGEBANDING AS PER SPEC'S) CUT TO SUIT INTENDED APPLICATION AND ADHERED TO WALL ASSEMBLY BEYOND; BUTT JOINTS BETWEEN PANEL (APPROX. 2mm WIDE) TO BE IN THE LOCATIONS SHOWN ON INTERIOR ELEVATION DRAWINGS |
| MWP-2 | MILLWORK WALL PANEL-2: PLASTIC LAMINATE #1 (FENIX #J0789 ROSSO NAMIB) ON ALL EXPOSED FACES OF 1/2" THICK MDF, CUT TO SUIT INTENDED APPLICATION AND ADHERED TO WALL ASSEMBLY BEYOND; BUTT JOINTS BETWEEN PANELS (APPROX. 2mm WIDE) TO BE IN THE LOCATIONS SHOWN ON INTERIOR ELEVATION DRAWINGS |

## MILLWORK KEYING:

- A — CONCEALED CABINET INTERIORS TO BE WHITE MELAMINE FINISH PARTICLE BOARD THROUGHOUT C/W MATCHING TAPED EDGEBANDING; 3/4" SHELVES, GABLES & DRAWER BOXES; 3/8" BACKING BOARD; ADJUSTABLE SHELVES TO BE FINISHED WITH MATCHING EDGEBANDING ON ALL 4 SIDES; ADJUSTABLE SHELVES TO BE SUPPORTED ON METAL SHELF SUPPORTS WITH MATCHING FERRULES LINING PRE-DRILLED MOUNTING HOLES IN CABINET BODY POSITIONED AT 1 1/2" O.C. VERTICALLY (AS PER SPECIFICATIONS); ALL DRAWER BOXES TO BE EQUIPPED WITH FULL EXTENSION BALL-BEARING GLIDES BOTH SIDES
- B — ALL EXPOSED CABINET BODIES TO BE MELAMINE #1 FINISH PARTICLE BOARD (ON ALL VISIBE FACES) IN STOCK THICKNESS NOTED; ALL ITEMS TO BE FINISHED WITH MATCHING PVC EDGEBANDING AS PER SPECIFICATIONS; DOOR & DRAWER FACES TO BE 3/4" PARTICLE BOARD; EXPOSED SHELVES & CABINET BODIES TO BE 3/4" PARTICLE BOARD; 3/8" BACKING BOARD; ADJUSTABLE SHELVES TO BE SUPPORTED ON METAL SHELF SUPPORTS WITH MATCHING FERRULES LINING PRE-DRILLED MOUNTING HOLES IN CABINET BODY POSITIONED AT 1 1/2" O.C. VERTICALLY (AS PER SPECIFICATIONS)
- C — 3" HIGH VALENCE STRIP BELOW UPPER CABINETS (WHERE INDICATED ON DRAWINGS) TO BE MELAMINE#1 FINISH 3/4" PARTICLE BOARD WITH MATCHING PVC EDGE-BANDING ON ALL EXPOSED SIDES; PROVIDE CONTINUOUS [CONCEALED] WOOD ANCHORING STRIPS TO SUIT
- D — CABINET FACING FILLER STRIPS (IN WIDTHS TO SUIT) TO BE FLUSH WITH FINISHED FACE OF ADJACENT CABINET BODIES & FINISHED TO MATCH (TYPICAL)
- E — 4 1/2" HIGH X 2" DEEP TOEKICK TO BE MELAMINE #1 FINISH 3/4" PARTICLE BOARD WITH MATCHING PVC EDGEBANDING ON ALL EDGES (INCLUDING UNDERSIDE); PROVIDE CONCEALED WOOD ANCHORING BLOCKS TO SUIT; FULL JUNCTURE OF TOEKICK WITH FINISH FLOOR TO BE CLEAR-SILICONE CAULKED PRIOR TO APPLICATION OF RUBBER WALL BASE (BY OTHERS)
- F — SOLID SURFACE COUNTERTOP TO BE 1/2" THICK SS#1 C/W BUILT-UP NOSING AT FRONT EDGE (RANGING FROM 1" TO 4") AS SHOWN ON DRAWINGS; 3 1/2:" HIGH BACKSPLASH AND/OR SIDESPLASHES WHERE INDICATED ON DRAWINGS (AT WET LOCATIONS); PROVIDE CONTINUOUS WOOD SUPPORT RUNNERS AND FULL PLYWOOD SUBSTRATE BELOW SOLID SURFACE COUNTERTOPS TO SUIT
- G — SUPPORT GABLE/END GABLE TO BE MELAMINE #1 FINISH 3/4" THICK PARTICLE BOARD IN LOCATIONS SHOWN; GABLE EDGES TO BE FINISHED IN MATCHING PVC EDGEBANDING ON ALL SIDES (INCLUDING GABLE UNDERSIDE AT JUNCTURE WITH FLOOR); ENSURE GABLES ARE SECURELY ANCHORED TO FLOOR, WALL AND TO COUNTERTOP ABOVE; CLEAR SILICONE CAULK JUNCTURE OF GABLE WITH FINISHED FLOOR
- H — DIVIDER GABLES AT COAT CUBBIES TO BE MELAMINE#1 FINISH 3/4" PARTICLE BOARD C/W MATCHING PVC EDGE BANDING
- I — CABINET PULLS TO BE RICHELIEU 'MODERN METAL PULLS #2362', 175 mm (7") LONG IN ORION GRAY FINISH (AS PER SPECIFICATIONS); MOUNTING POSITIONING OF PULLS TO BE AS PER DETAIL D2/A9-3
- J — CONTINUOUS WOOD ANCHORING STRIPS (TO SUIT) ANCHORED INTO WALL BEHIND
- K — WOOD SUPPORT BLOCKING (OR CABINET LEVELLING LEGS) TO SUIT
- L — ALUMINUM SUPPORT LEGS (BELOW COAT CUBBIES) AS PER SPECIFICATIONS IN QUANTITIES AND POSITIONS AS INDICATED ON DRAWINGS
- M — CONCEALED STEEL SUPPORT BRACKET BELOW WALL-HUNG COUNTERTOPS TO BE 2" x 2" x 3/16" STEEL ANGLES WELDED TOGETHER IN CONFIGURATIONS SHOWN ON ARCHITECTURAL DRAWINGS; BRACKETS TO BE ANCHORED INTO CMU WALLS BEHIND WITH TWO (2) 3/16" DIAMETER X 3" TOGGLE BOLTS & WASHERS PER BRACKET; BRACKET LOCATIONS AND QUANTITIES TO BE AS INDICATED ON DRAWINGS; WHERE LOCATED BELOW SINKS: COUNTERTOP ABOVE (WITH RELATED WOOD SUBSTRATE)TO BE SECURED TO TOP MEMBER OF SUPPORT BRACKETS THROUGHOUT; FRONT (ANGLED) LEG OF SUPPORT BRACKETS TO BE PRE-DRILLED TO ACCOMMODATE MECHANICAL FASTENING OF REMOVEABLE MILLWORK PANELS; ENSURE SUPPORT BRACKETS ARE POSITIONED AT OUTSIDE EDGES OF UNDERSINK MILLWORK PANELS AND AT INTERMEDIATE POINTS BETWEEN SINKS AS INDICATED ON DRAWINGS
- N — RESERVED
- O — HYDRONIC PIPE ENCLOSURE TO BE 3/4" THICK MELAMINE #1 PANELS (ON 2 SIDES TO SUIT) SECURED TO CONCEALED WOOD BLOCKING INTO WALL ASSEMBLY BEHIND; PIPE ENCLOSURE TO BE CONTINUOUS FROM TOP OF COUNTER TO THE UNDERSIDE OF THE CABINET AND FROM THE TOP OF THE CABINET TO THE TO UNDERSIDE OF FINISHED CEILING ABOVE
- P — SOLID SURFACE WALL CAP AS PER DETAIL D1/A9-3
- Q — RANGE-HOOD EXHAUST DUCT ENCLOSURE TO BE 3/4" THICK MELAMINE #1 PANELS (ON 3 SIDES TO SUIT) SECURED TO CONCEALED WOOD BLOCKING INTO WALL ASSEMBLY BEHIND; DUCT ENCLOSURE TO BE CONTINUOUS FROM TOP OF CABINET BELOW TO UNDERSIDE OF FINISHED CEILING ABOVE
- R — 2x4 CLEAR BIRCH BENCH SLATS (TRIMMED TO 3" WIDE) C/W PENCIL RADIUS TOP EDGES; CLEAR SEAL AND TOPCOAT FINISH AS PER SPEC'S
- S — 1"x 4" BIRCH SUPPORTS MECHANICALLY FASTENED TO STEEL ANGLE BELOW WITH 2" WOOD SCREWS AT UNDERSIDE; CLEAR SEAL AND TOPCOAT FINISH AS PER SPEC'S
- T — FINGER-PULL BELOW COUNTERTOP (IN HEIGHT SHOWN ON SECTIONS) TO BE MELAMINE #1 FINISH 3/4" PARTICLE BOARD WITH MATCHING PVC EDGE-BANDING (AS PER SPEC'S) ON ALL EXPOSED SIDES; PROVIDE CONTINUOUS WOOD NAILER STRIP TO SUIT
- U — COAT ROD TO BE 1 1/4" DIA. CHROME FINISHED STEEL C/W MATCHING ANCHORING COLLARS SECURED AT BOTH ENDS
- V — DOUBLE-PRONGED ALUIMINUM COAT HOOK AS PER SPEC'S
- W — FIXED MILLWORK FACING PANEL (IN HEIGHTS SHOWN) TO BE MELAMINE FINISH 3/4" PARTICLE BOARD C/W MATCHING EDGE BANDING AS PER SPEC'S; PROVIDE CONTINUOUS MOUNTING STRIPS TO SUIT
- X — UNDER-SINK MILLWORK PANEL TO BE 3/4" MELAMINE #1 C/W MATCHING EDGEBANDING (AS PER SPEC'S) ON ALL 4 SIDES; PANEL FACE TO BE MECHANICALLY FASTENED TO FRONT LEG OF CONCEALED STEEL SUPPORT BRACKETS BEHIND; SECURE MILLWORK PANEL TO BRACKETS WITH EXPOSED FASTENERS (SCREWS WITH COUNTER-SINK WASHERS) LOCATED AT PANEL CORNERS AND AT INTERMEDIATE LOCATIONS AS INDICATED ON DRAWINGS
- Y — DECORATIVE SOLID SURFACE PERIMETER FRAME TO BE 1/2" SS#1 ADHERED TO WALL BEYOND (TRANSITIONING BETWEEN DIFFERING WALL TREATMENTS AS ILLUSTRATED); DEPTH OF SOLID SURFACE FREME TO BE DETERMINED TO SUIT, ENSURING 1/2" PROJECTION BEYOND FINISHED FACE OF THICKEST SURROUNDING/ADJACENT WALL FINISH
- Z — SOLID SURFACE SURROUND (AROUND KITCHEN PASS-THROUGH) TO BE 1/2" SS#1 ADHERED TO VERTICAL SIDES AND HORIZONTAL UNDERSIDE OF WALL OPENING AS ILLUSTRATED; DEPTH OF MATERIAL TO BE DETERMINED TO SUIT, ENSURING 1/2" PROJECTION BEYOND FINISHED FACE OF THICKEST SURROUNDING/ADJACENT WALL FINISH; SOLID SURFACE SURROUND TO BE CONTINUOUS TO BACKSIDE (KITCHEN SIDE) OF RELATED WALL ASSEMBLY

## MISCELLANEOUS GENERAL KEYING:

1. CMU WALL BEYOND FINISHED AS PER ROOM FINISH SCHEDULE
2. RUBBER BASE TILE BASE AS PER ROOM FINISH SCHEDULE
3. HVAC RADIATOR CABINET OR CONVECTOR CABINET AS PER MECHANICAL
4. DUPLEX RECEPTACLES, DATA TELECOM OUTLETS, SWITCHES ETC. AS PER ELECTRICAL
5. SINK & FAUCET AS PER MECHANICAL
6. CLASSROOM CONTROL PANEL AS PER ELECTRICAL; REFER TO TYPICAL DETAIL ON A8-9
7. 4'-0" HIGH PROTECTIVE WALL PANELS AS PER SPECIFICATIONS
8. RECESSED POT LIGHTS AS PER ELECTRICAL
9. WALL-MOUNTED MIRRORS [IN SIZES SHOWN] AS PER SPECIFICATIONS
10. DOOR AND FRAME AS PER DOOR AND FRAME SCHEDULE
11. PLUMBING FIXTURES AS PER MECHANICAL DRAWINGS
12. GWB WALL OR BULKHEAD FACE FINISHED AS PER ROOM FINISH SCHEDULE
13. WATER CLOSET PARTITION AS PER SPECIFICATIONS
14. WALL-MOUNTED HAND DRYER PER ELECTRICAL
15. PAPER TOWEL DISPENSERS AS PER SPECIFICATIONS; PROVIDE SOLID ANCHORING SUPPORT (BLOCKING) AS REQUIRED
16. BARRIER-FREE WASHROOM GRAB BARS AS PER SPECIFICATIONS
17. FOLD-DOWN BARRIER-FREE GRAB BAR AS PER SPECIFICATIONS
18. TOILET PAPER DISPENSERS AS PER SPECIFICATIONS; PROVIDE SOLID ANCHORING SUPPORT (BLOCKING) AS REQUIRED
19. WINDOW OR GLAZING SCREEN AS PER APPLICABLE SCHEDULE
20. SOAP DISPENSERS AS PER SPECIFICATIONS
21. SANITARY NAPKIN RECEPTACLE AS PER SPECIFICATIONS
22. UNIT-VENTILATOR AS PER MECHANICAL
23. OVERHEAD ROLLING DOOR (AT SERVERY COUNTER) AS PER SPECIFICATIONS
24. BREAK-SHAPE ALUMINUM CAP FLASHING (ACF) AS PER SPECIFICATIONS
25. WALL SCONCE (AS PER ELECTRICAL) POSITIONED AS PER ARCHITECTURAL DRAWINGS
26. URINAL SCREEN AS PER SPECIFICATIONS
27. AMU WALLS (FINISHED AS PER ROOM FINISH SCHEDULE & SPEC'S)
28. VENT-COVE RUBBER WALL BASE (IN GYMNASIUM) AS PER SPEC'S
29. HARDWOOD STAGE-FRONT NOSING AS PER DETAIL 59/A5-5; PAINT FINISH AS PER SPEC'S
30. BASKETBALL NETS AS PER SPECIFICATIONS
31. WALL MOUNTED SAFETY MATS AS PER SPECIFICATIONS
32. WALL MOUNTED WATER FOUNTAIN AS PER MECHANICAL
33. WATER TABLE AS PER DETAIL ON A5-9
34. BACK REST AS PER SPECIFICATIONS
35. PORCELAIN TILE BASE AS PER ROOM FINISH SCHEDULE

## EQUIPMENT LIST:

- SI — SMART INTERACTIVE PANEL (N.I.C.)
- CM — COFFEE MAKER (N.I.C.)
- DW — DISHWASHER
- MW — MICROWAVE (N.I.C.)
- PC — PHOTO COPIER (NETWORKED) (N.I.C.)
- REF — REFRIGERATOR (N.I.C.)
- RH — RANGE HOOD
- RSB — ROLL-OUT STORAGE BIN
- ST — STOVE (N.I.C.)
- TV — WALL-MOUNTED TV POSITIONED AS SHOWN (N.I.C.)
- USC — UNDER STAGE CART AS PER SPECIFICATIONS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DRAWING TITLE:
**Key Plans**

SCALE: As Noted

DRAWN: DWG

DATE: December 2024

PROJECT #: 2501

DRAWING #: A8-0

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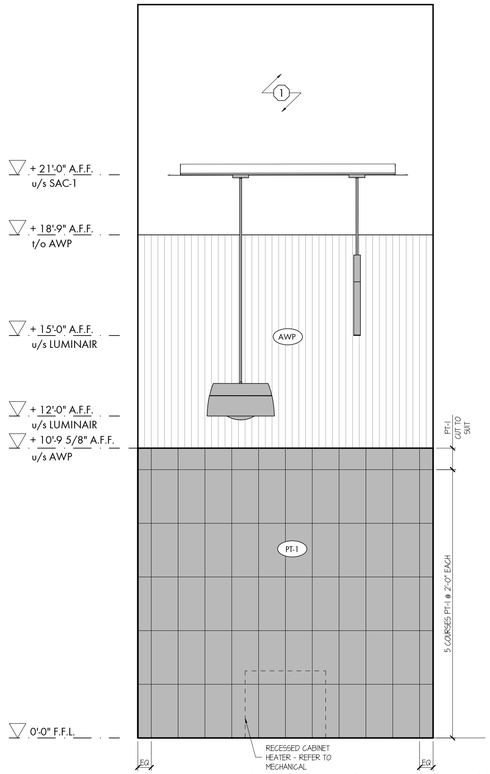
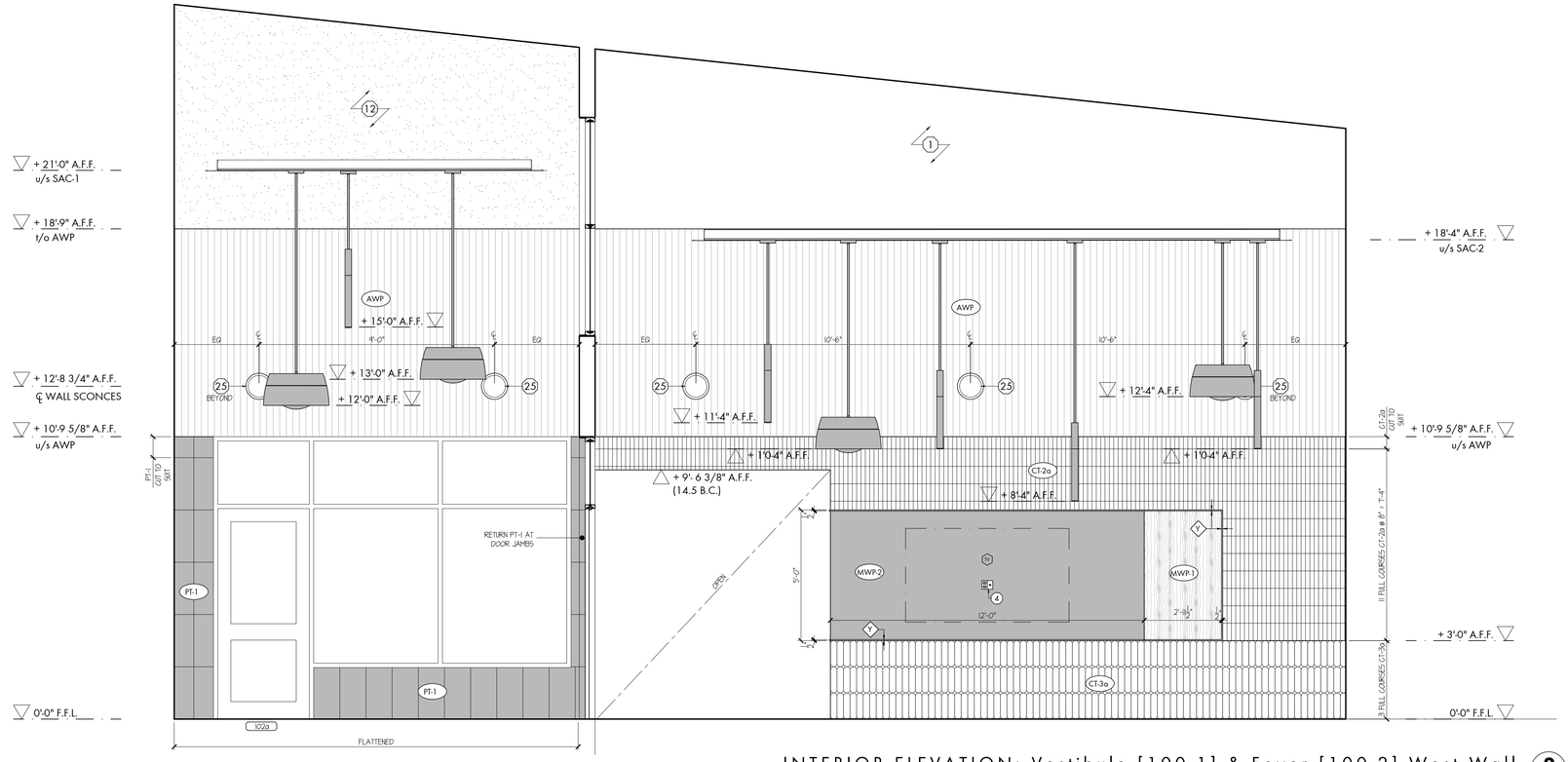


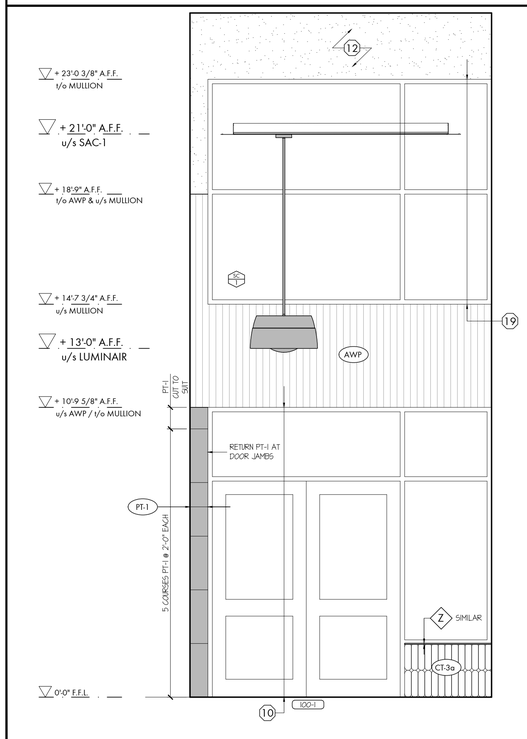

INTERIOR ELEVATION: Vestibule [100-1] South Wall (1)

SCALE: 3/8" = 1'-0"



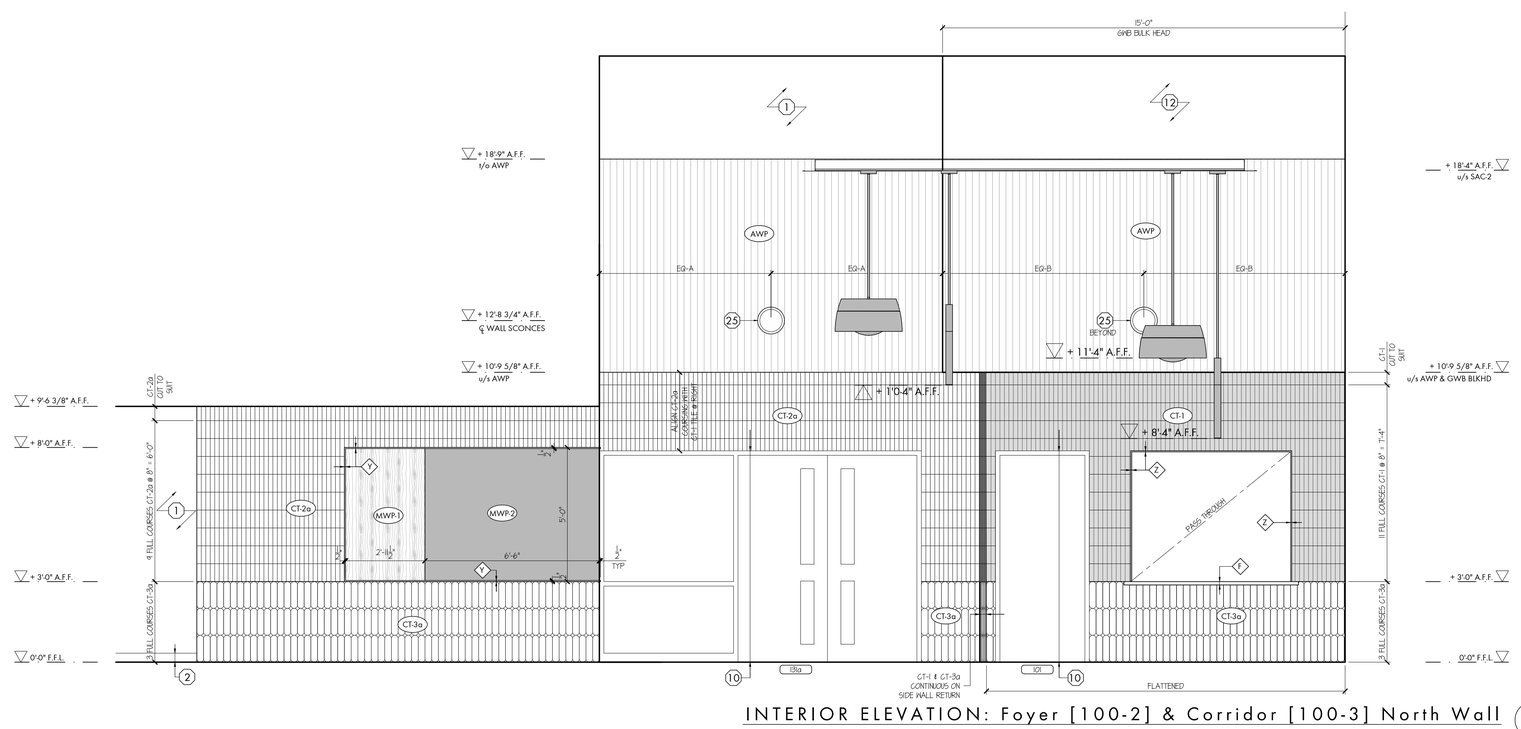

INTERIOR ELEVATION: Vestibule [100-1] & Foyer [100-2] West Wall (2)

SCALE: 3/8" = 1'-0"




INTERIOR ELEVATION: Vestibule [100-1] North Wall (3)

SCALE: 3/8" = 1'-0"




INTERIOR ELEVATION: Foyer [100-2] & Corridor [100-3] North Wall (4)

SCALE: 3/8" = 1'-0"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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857


WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

## Vestibule & Lobby Interior Elevations

SCALE: As Noted

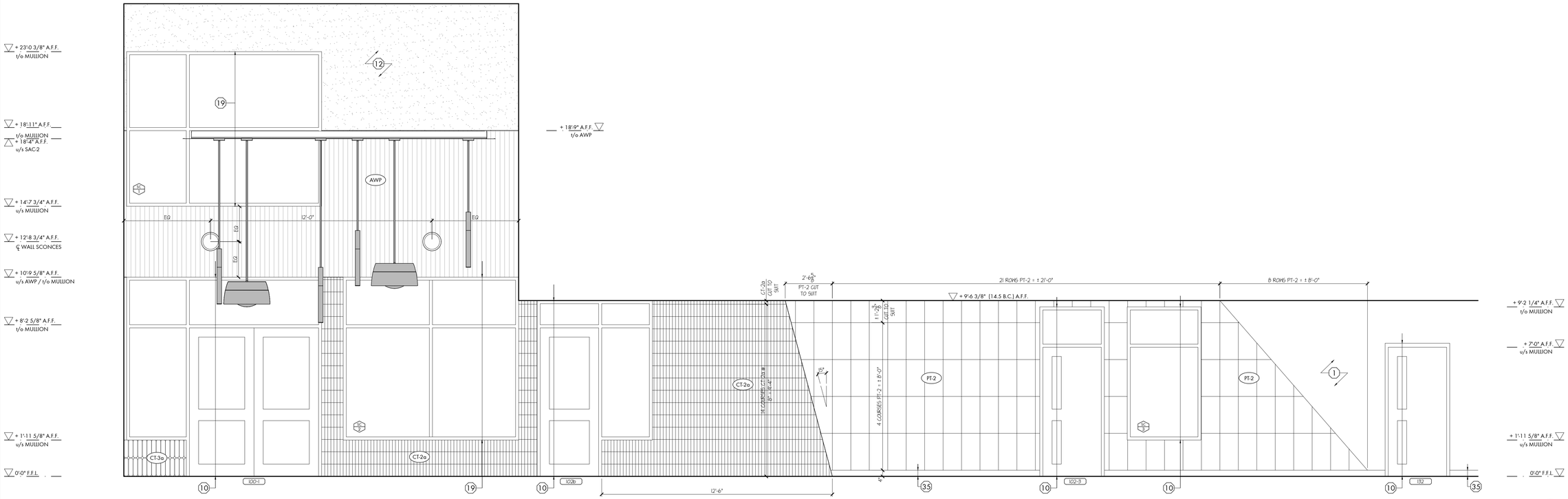
DRAWN: DWG

DATE: December 2024

PROJECT #: 2501

DRAWING #: A8-1

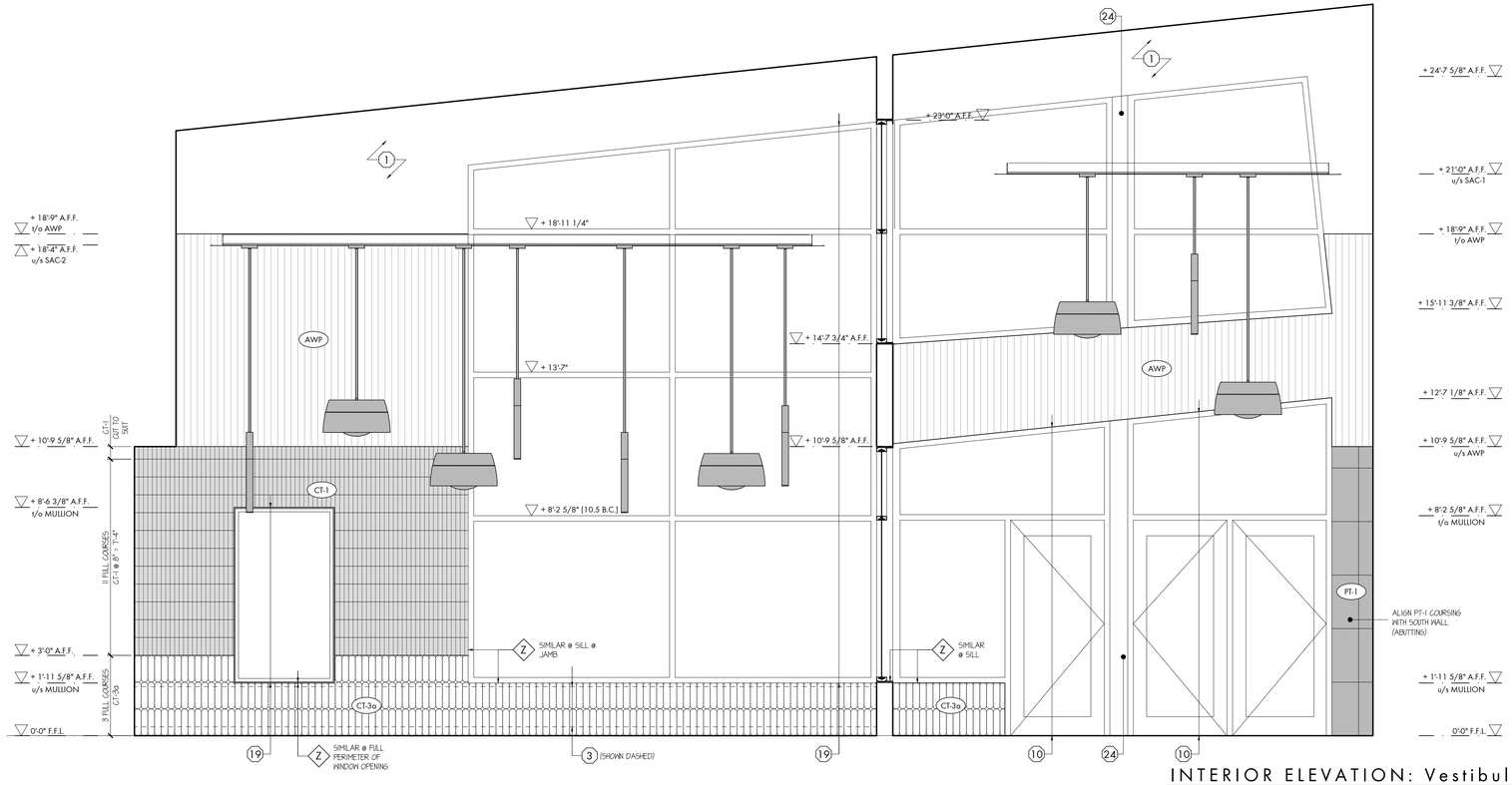
PLOTTED 3/31/2026 3:00 PM




INTERIOR ELEVATION: Foyer [100-2] & Corridor [100-3] South Wall

SCALE: 3/8" = 1'-0"

5




INTERIOR ELEVATION: Vestibule [100-1] & Foyer [100-2] East Wall

SCALE: 3/8" = 1'-0"

6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| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

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ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Lobby Interior Elevations**

SCALE: As Noted

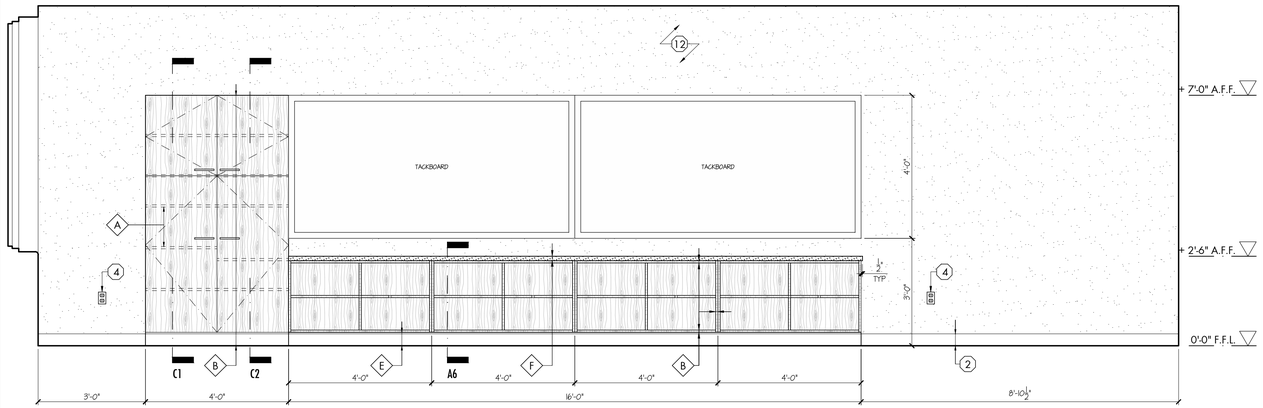
DRAWN: DWG

DATE: December 2024

PROJECT #: 2501

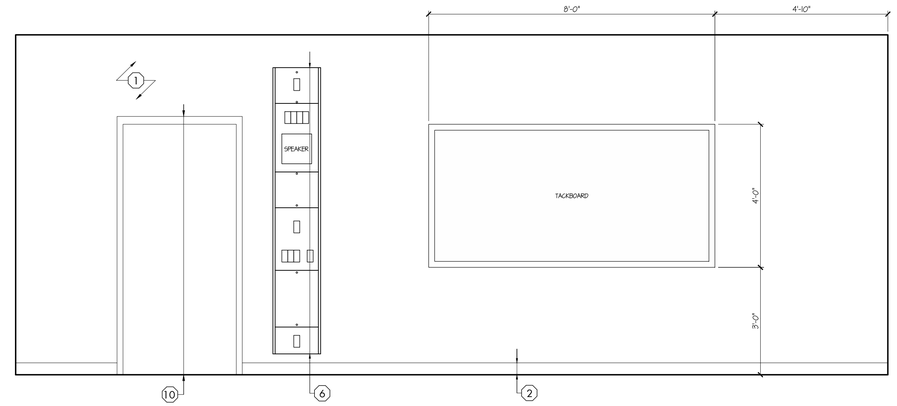
DRAWING #: A8-2

PLOTTED 3/31/2026 2:59 PM



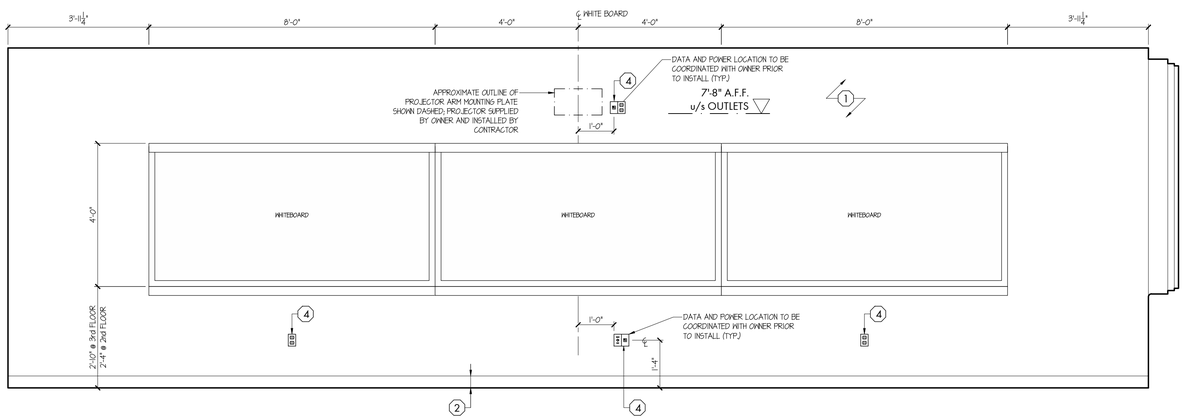

INTERIOR ELEVATION: Typical Classroom (Rear Wall) 7

SCALE: 1/2" = 1'-0"



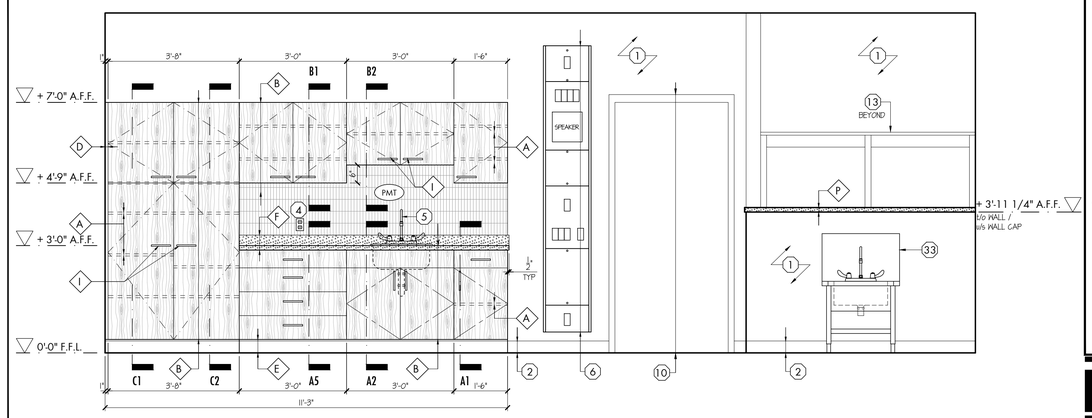

INTERIOR ELEVATION: Typical Classroom (Corridor Wall) 8

SCALE: 1/2" = 1'-0"



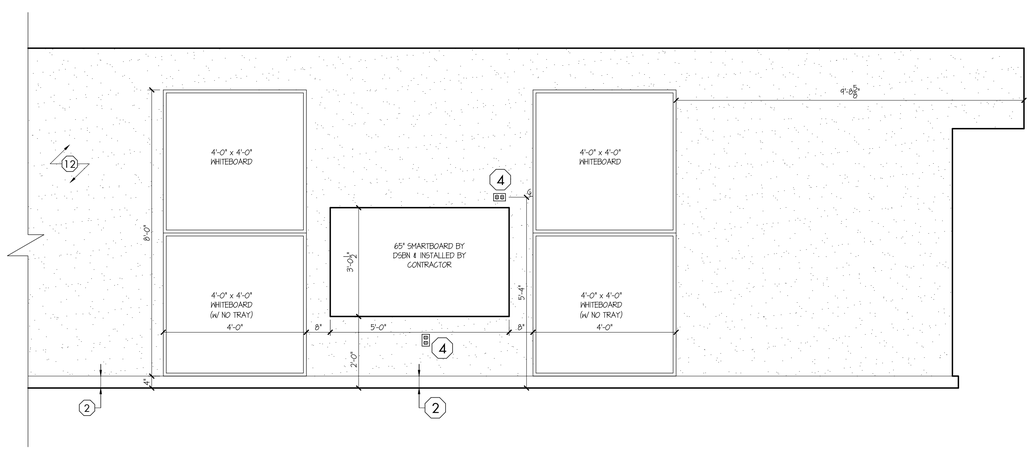

INTERIOR ELEVATION: Typical Classroom (Instruction Wall) 9

SCALE: 1/2" = 1'-0"



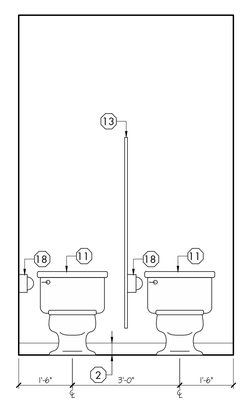

INTERIOR ELEVATION: Typical Kindergarten (Corridor Wall) 10

SCALE: 1/2" = 1'-0"



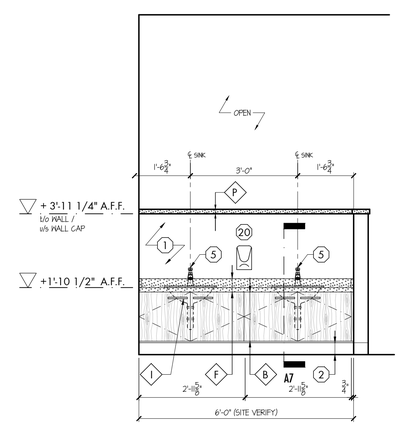

INTERIOR ELEVATION: Typical Kindergarten (Instruction Wall) 11

SCALE: 1/2" = 1'-0"




INTERIOR ELEVATION: Typical Kinder W.R. 12

SCALE: 1/2" = 1'-0"




INTERIOR ELEVATION: Typical Kinder W.R. 13

SCALE: 1/2" = 1'-0"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PROJECT:

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DRAWING TITLE:

**Typical Classroom & Kindergarten Interior Elevations**

SCALE: As Noted

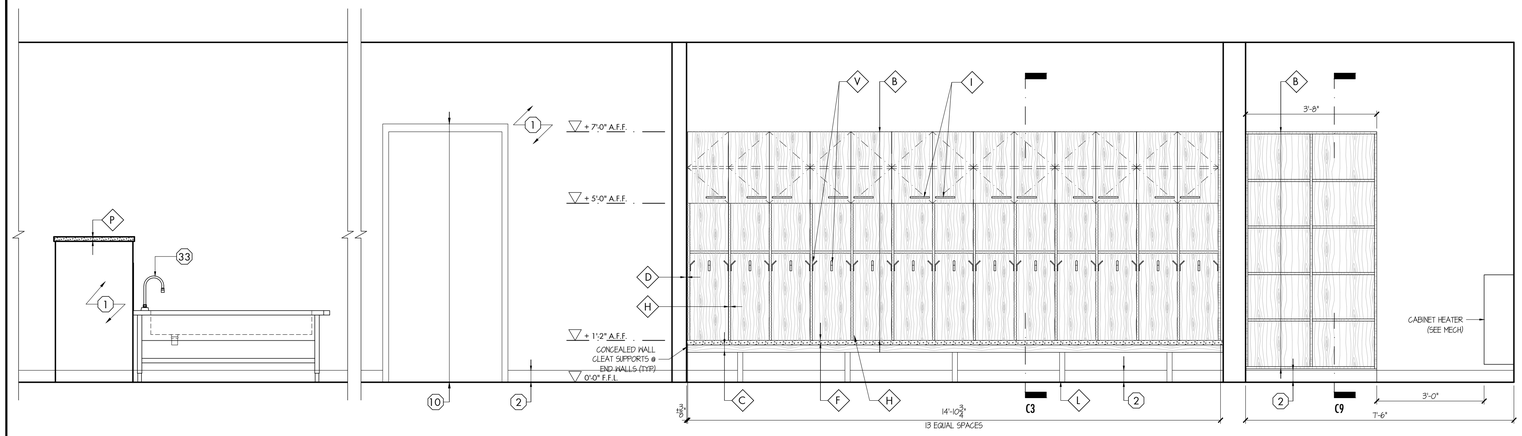
DRAWN: DWG

DATE: December 2024

PROJECT #: 2501

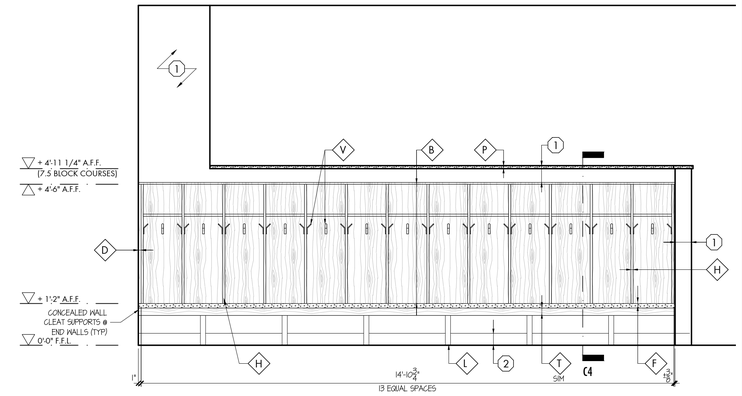
DRAWING #: A8-3

PLOTTED 3/31/2026 3:00 PM



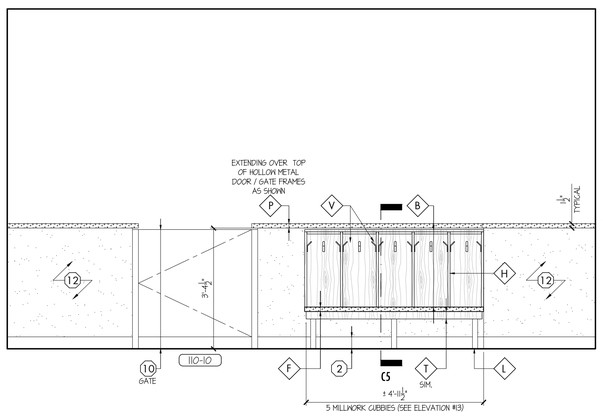

INTERIOR ELEVATION: Typical Kindergarten (Cubby Wall) 14

SCALE: 1/2" = 1'-0"




INTERIOR ELEVATION: Typical Kindergarten (Low Cubby Wall) 15

SCALE: 1/2" = 1'-0"

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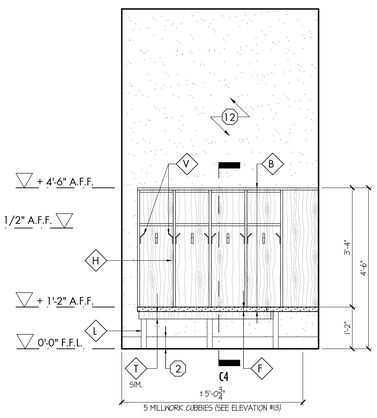


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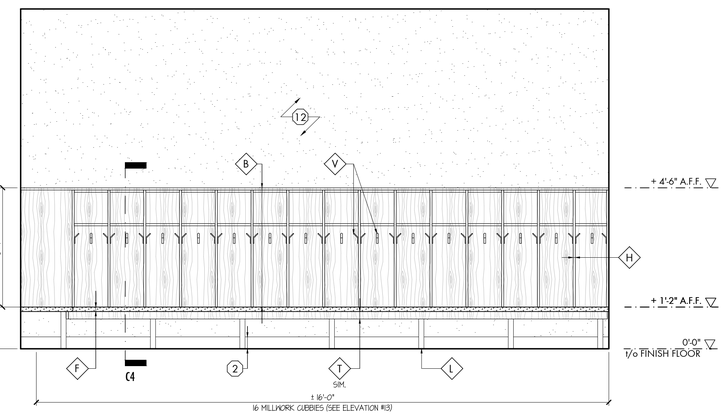
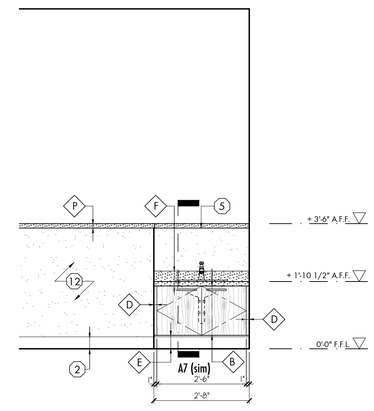


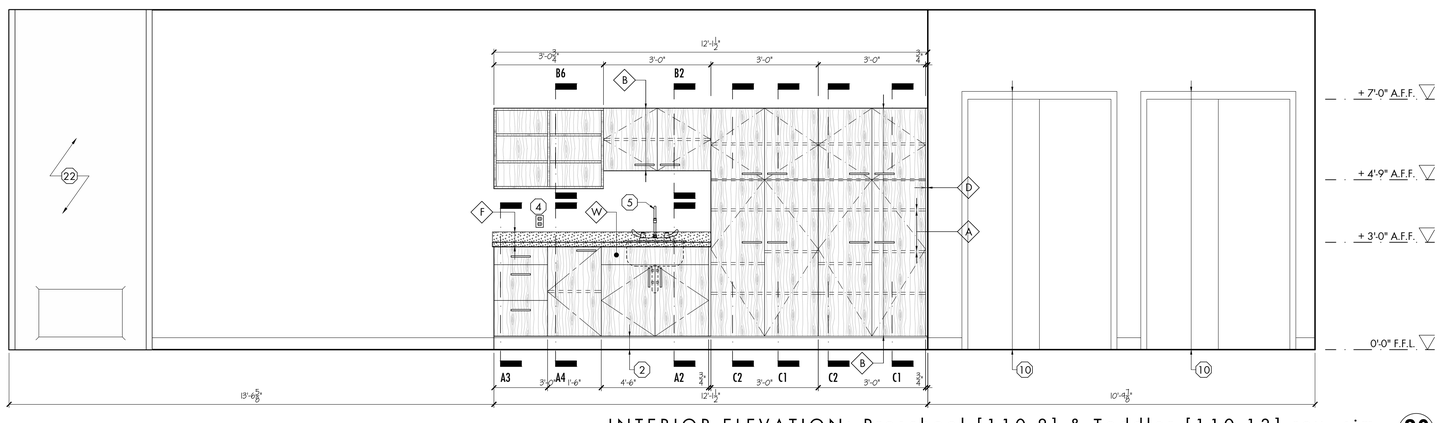

18 INTERIOR ELEVATION: Daycare Coats [110-10]

SCALE: 1/2" = 1'-0"



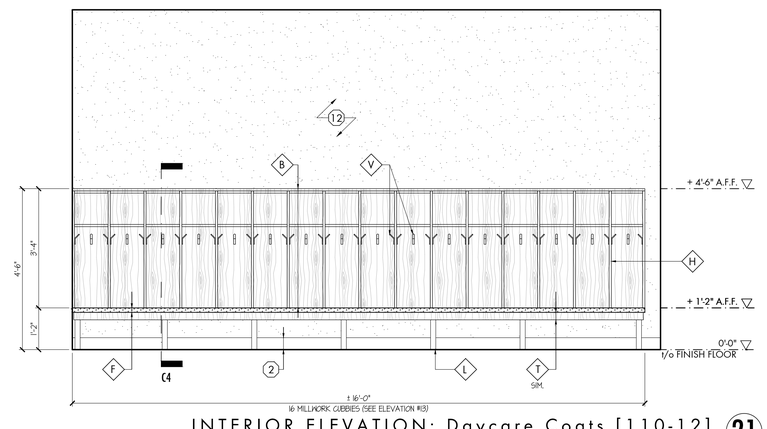

INTERIOR ELEVATION: DayCareSink 19

SCALE: 1/2" = 1'-0"




INTERIOR ELEVATION: Preschool [110-8] & Toddler [110-13] rev. sim. 20

SCALE: 1/2" = 1'-0"




INTERIOR ELEVATION: Daycare Coats [110-12] 21

SCALE: 1/2" = 1'-0"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PROJECT:

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905-688-6087
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DRAWING TITLE:

## Kindergarten & Daycare Interior Elevations

SCALE: As Noted

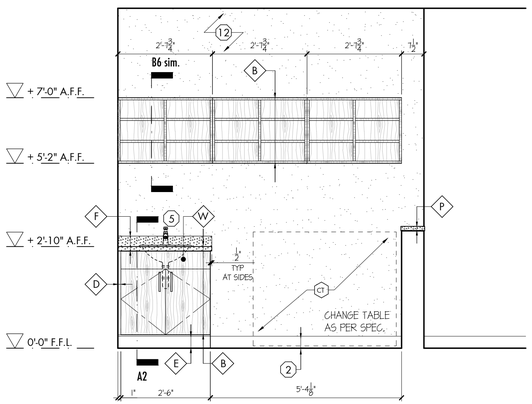
DRAWN: DWG

DATE: December 2024

PROJECT #: 2501

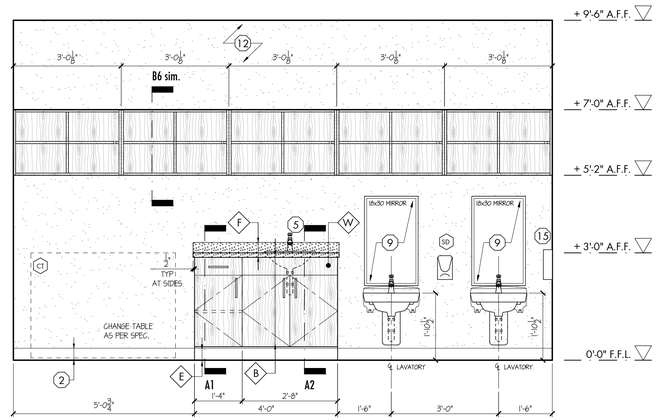
DRAWING #: A8-4

PLOTTED 3/31/2026 2:58 PM




INTERIOR ELEVATION: Change [110-16] 22

SCALE: 1/2" = 1'-0"

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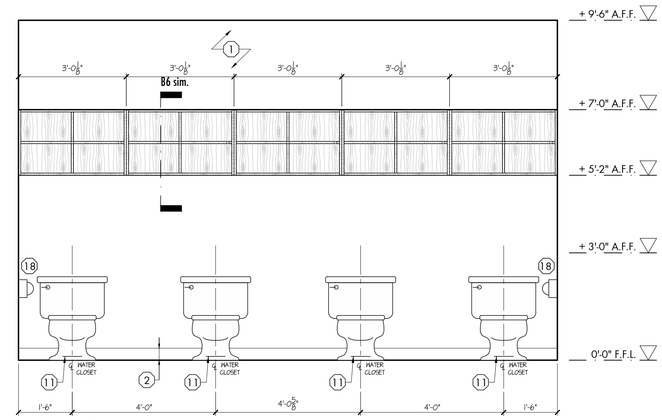
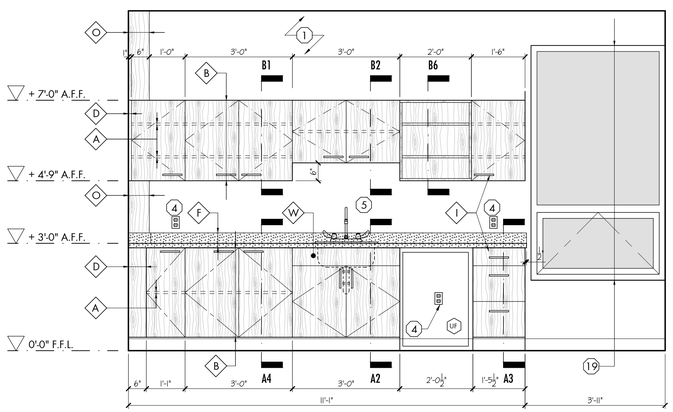


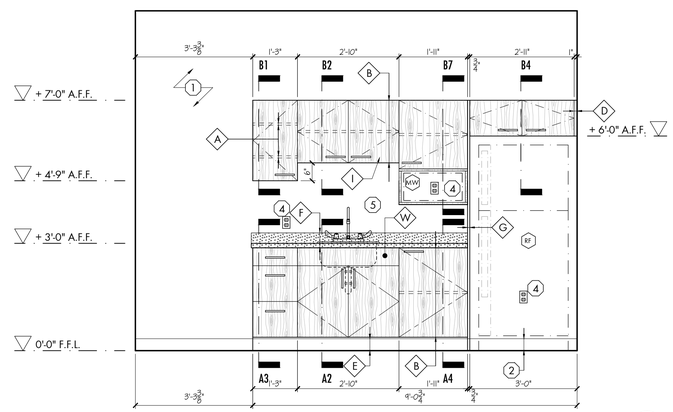

24 INTERIOR ELEVATIONS: Daycare Washroom [110-9]

SCALE: 1/2" = 1'-0"



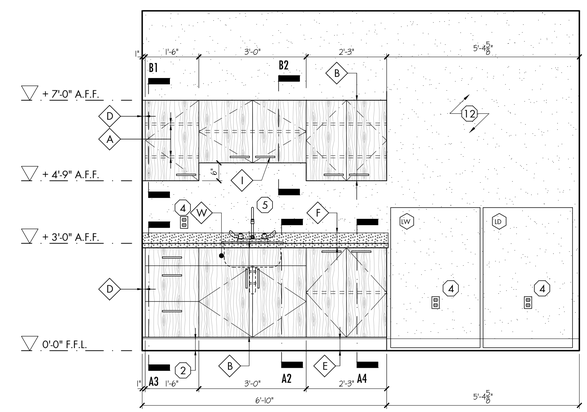

INTERIOR ELEVATION: Infant [110-14] 25

SCALE: 1/2" = 1'-0"



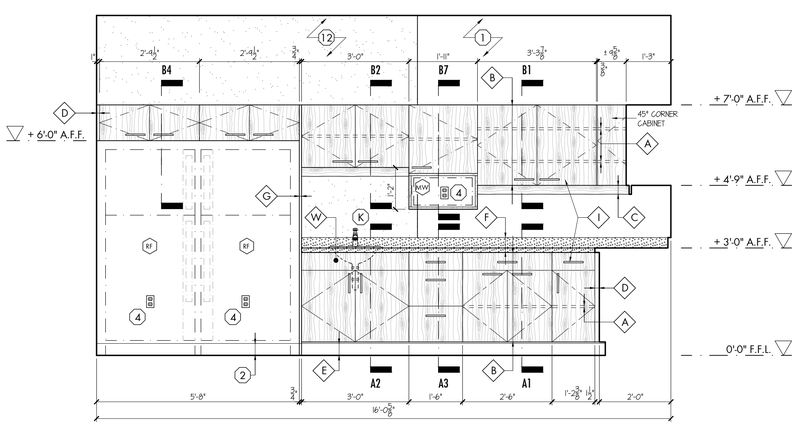

INTERIOR ELEVATION: Daycare Staff [110-7] 26

SCALE: 1/2" = 1'-0"




INTERIOR ELEVATION: Daycare Laundry [110-4] 27

SCALE: 1/2" = 1'-0"

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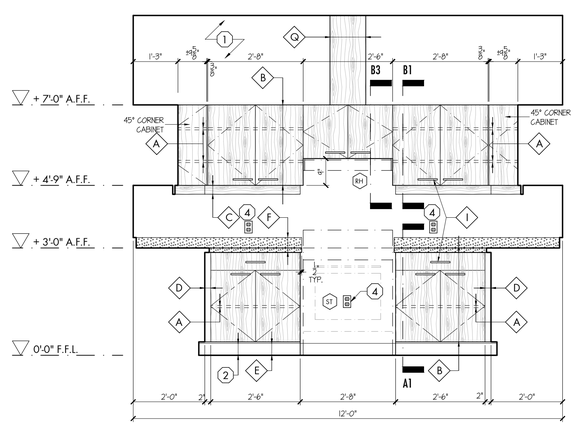


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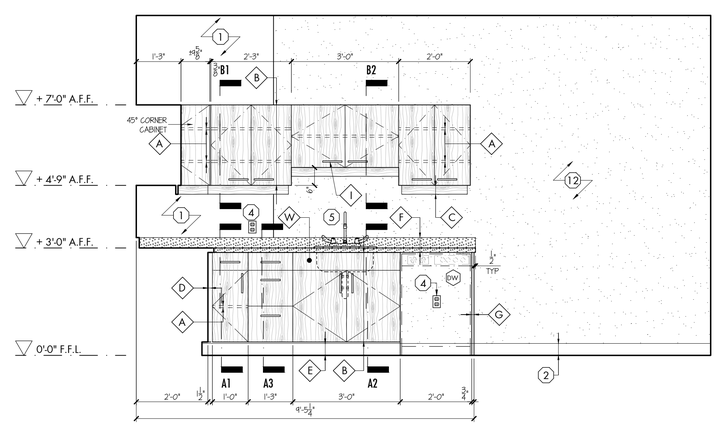


30 INTERIOR ELEVATION: Daycare Kitchen [110-5]

SCALE: 1/2" = 1'-0"


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DRAWING TITLE:

**Daycare Interior Elevations**

SCALE: As Noted

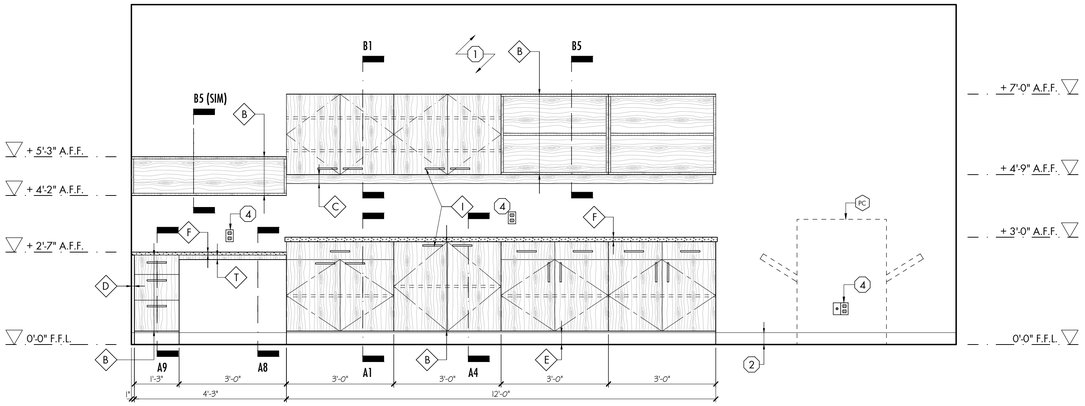
DRAWN: DWG

DATE: December 2024

PROJECT #: 2501

DRAWING #: A8-5

PLOTTED 3/31/2026 2:59 PM

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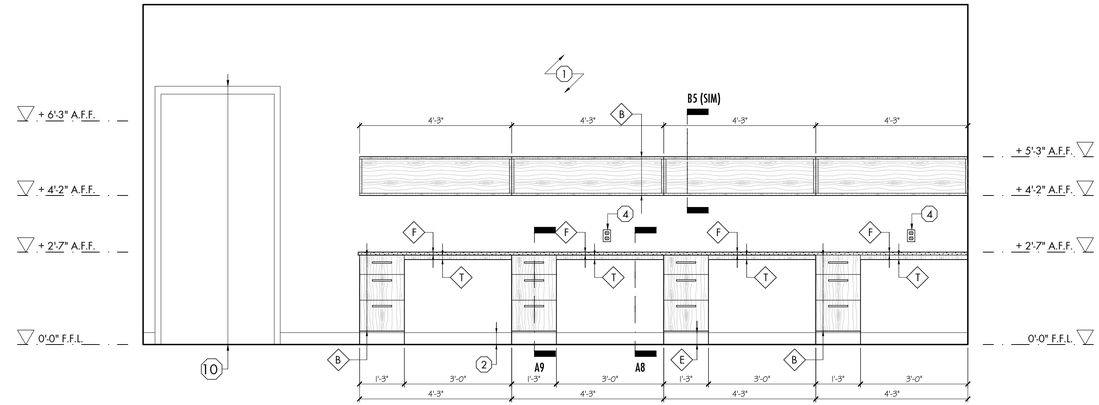
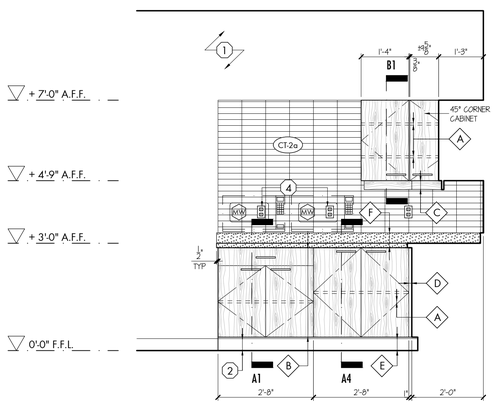



32

INTERIOR ELEVATION: Staff Work Room [209-1]

SCALE: 1/2" = 1'-0"

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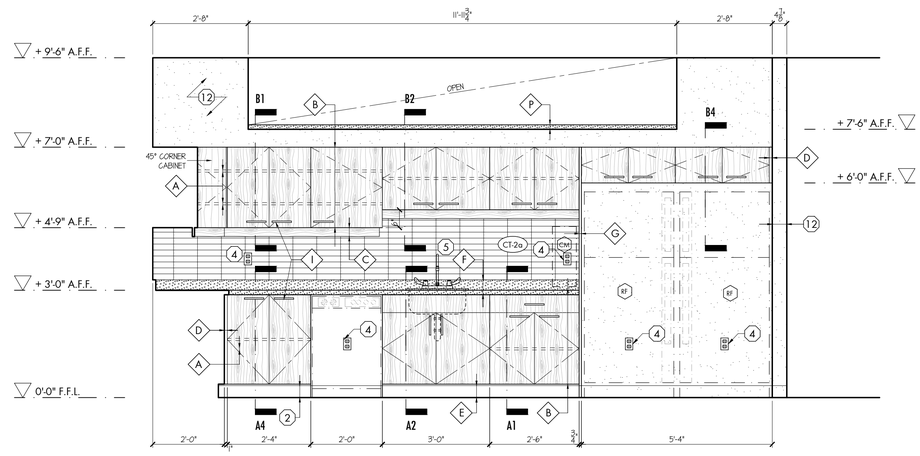
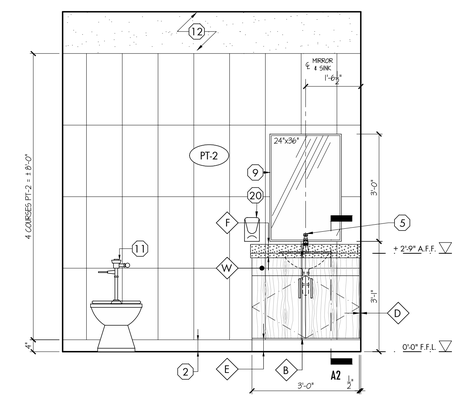



34

INTERIOR ELEVATION: Staff [209]

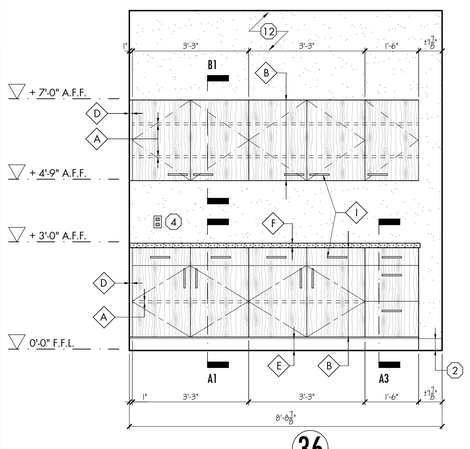
SCALE: 1/2" = 1'-0"




ELEVATION: Staff W/R [209-2], [209-3] & [209-4]

SCALE: 1/2" = 1'-0"

35

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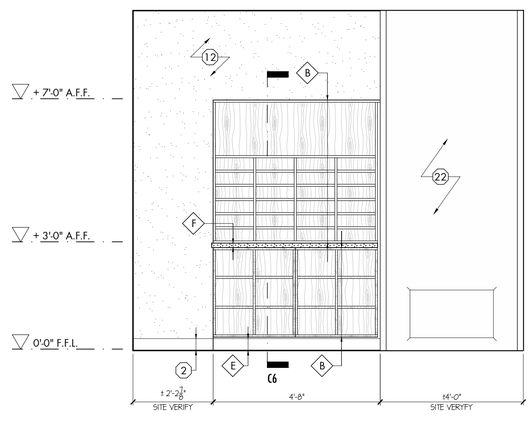
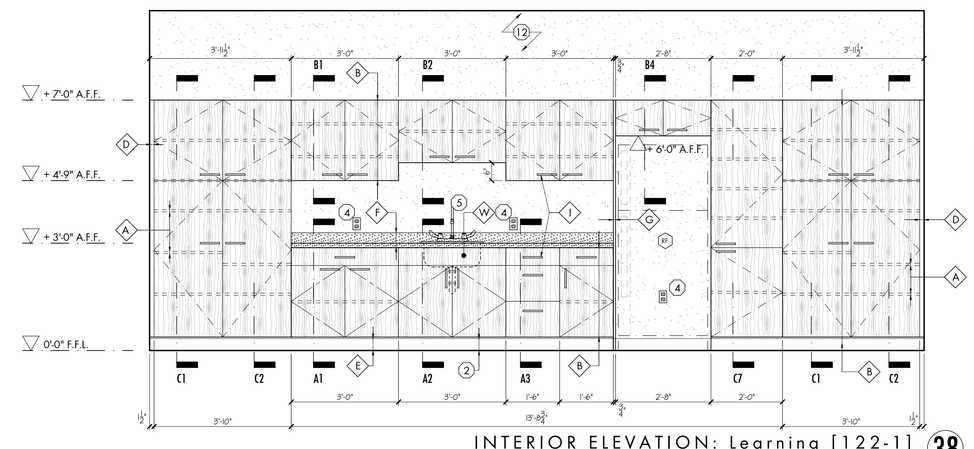



INTERIOR ELEVATION: Supplies [102-4]

SCALE: 1/2" = 1'-0"

37




INTERIOR ELEVATION: Learning [122-1]

SCALE: 1/2" = 1'-0"

38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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857


WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Interior Elevations**

SCALE:
As Noted

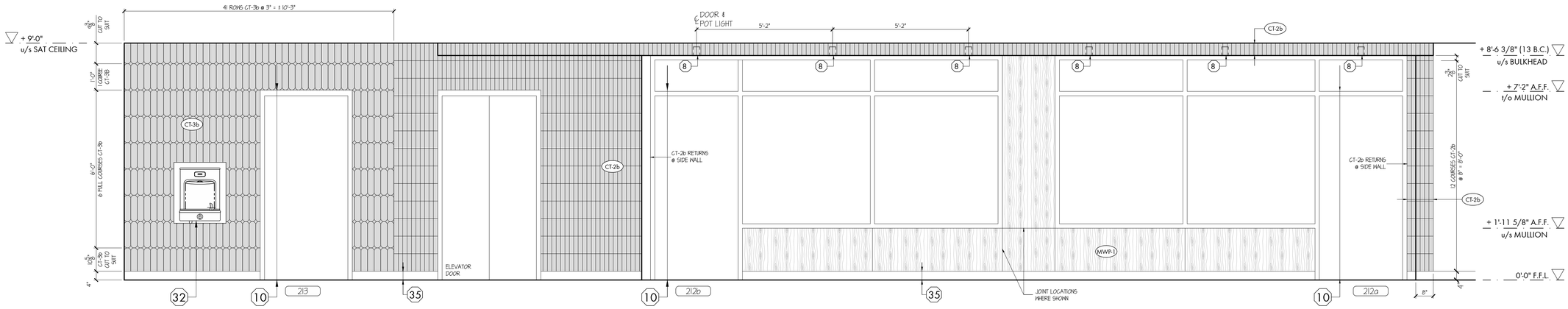
DRAWN:
DWG

DATE:
December 2024

PROJECT #:
2501

DRAWING #:
A8-6

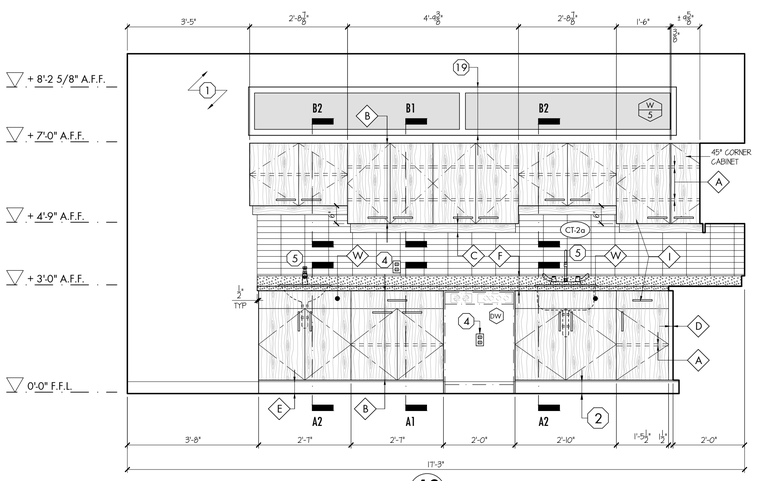
PLOTTED 3/31/2026 3:01 PM




39

INTERIOR ELEVATION: Corridor [200] at Learning Commons

SCALE: 1/2" = 1'-0"

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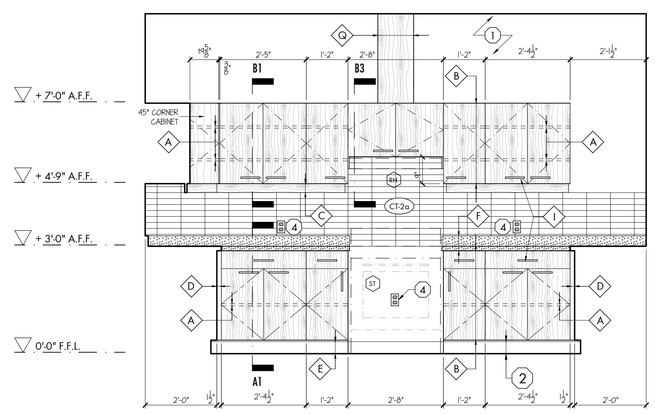


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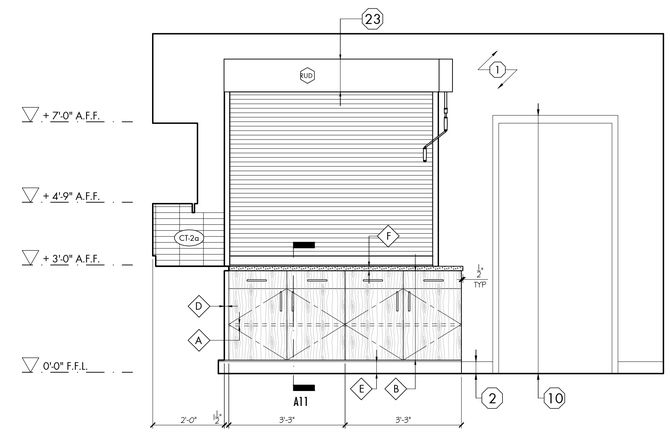
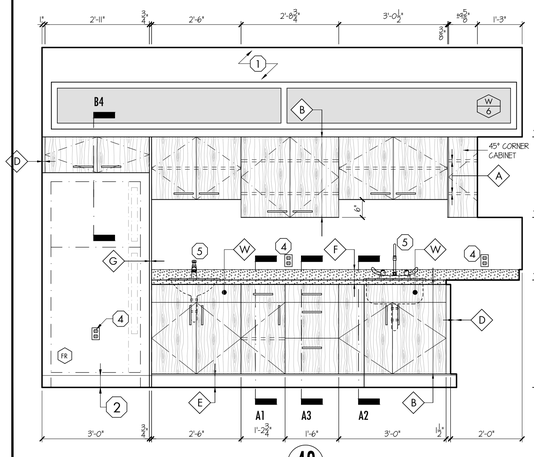



INTERIOR ELEVATION: School Kitchen [101] 42

SCALE: 1/2" = 1'-0"

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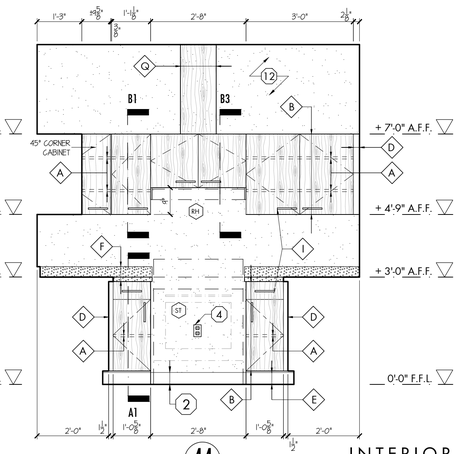


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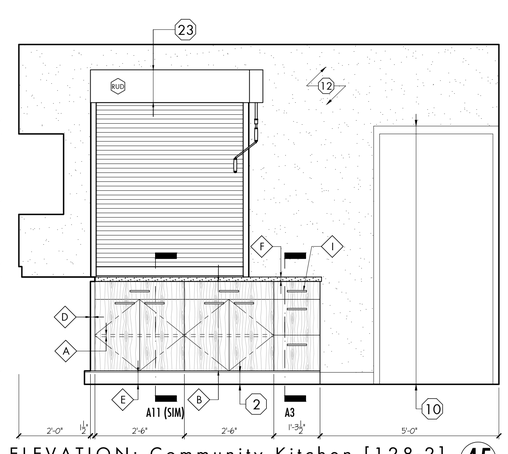
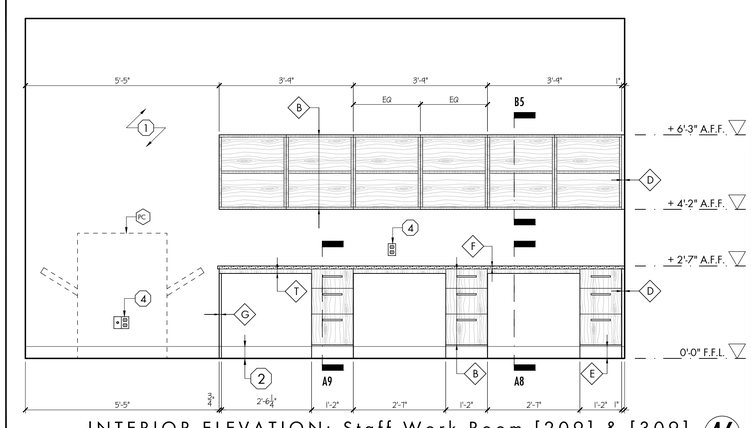



INTERIOR ELEVATION: Community Kitchen [128-2] 45

SCALE: 1/2" = 1'-0"




INTERIOR ELEVATION: Staff Work Room [209] & [309] 46

SCALE: 1/2" = 1'-0"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| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

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DRAWING TITLE:

**Interior Elevations**

SCALE: As Noted

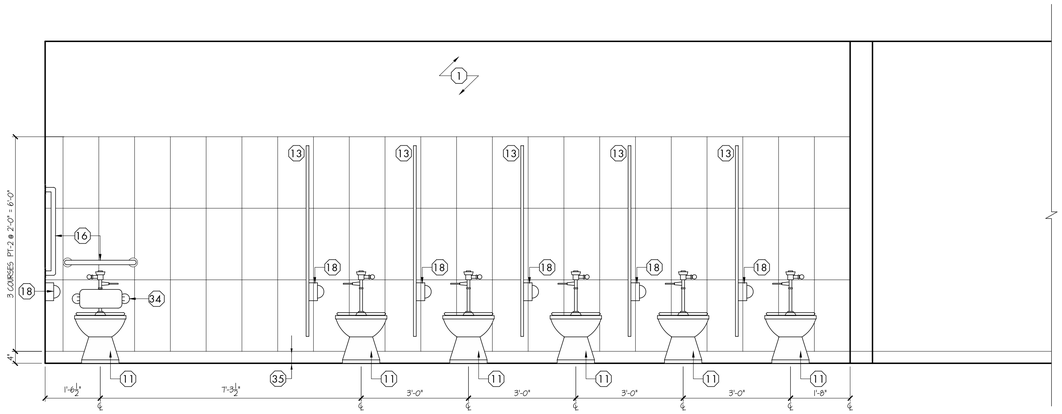
DRAWN: DWG

DATE: April 2025

PROJECT #: 2501

DRAWING #: A8-7

PLOTTED 3/31/2026 2:58 PM

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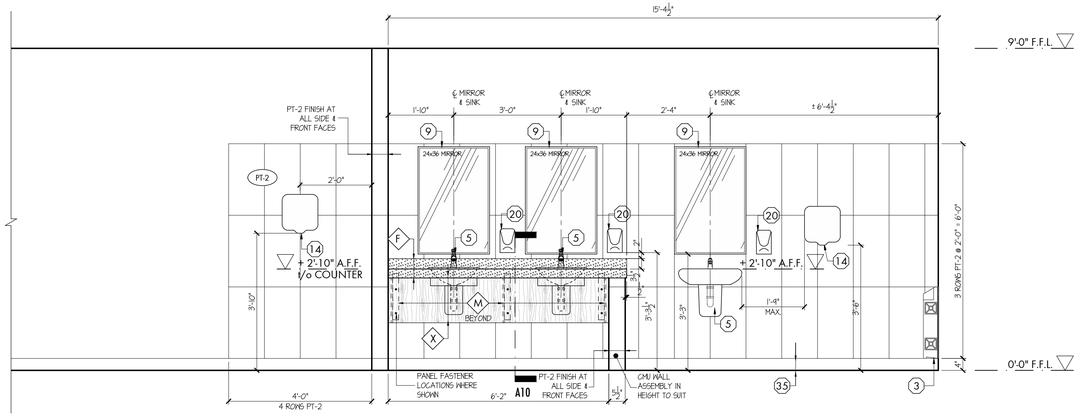
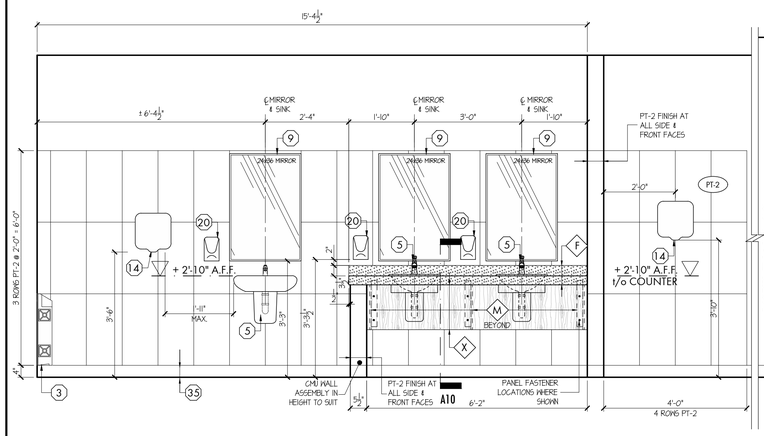



48 INTERIOR ELEVATION: Girls WR [205] & [305]

SCALE: 1/2" = 1'-0"

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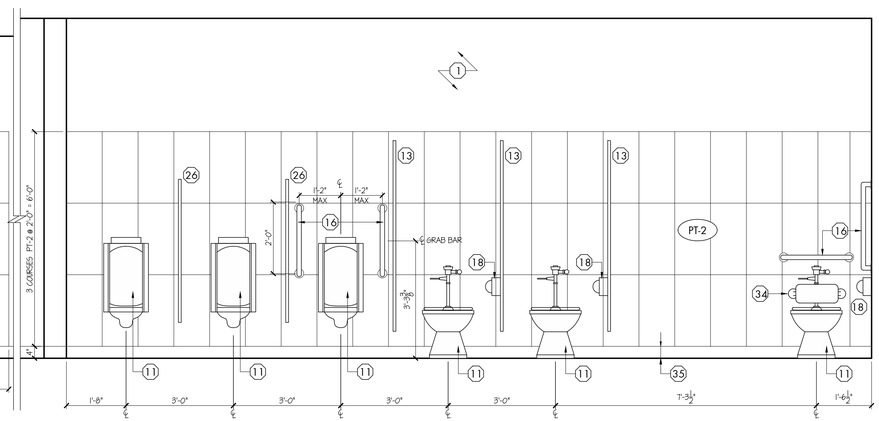
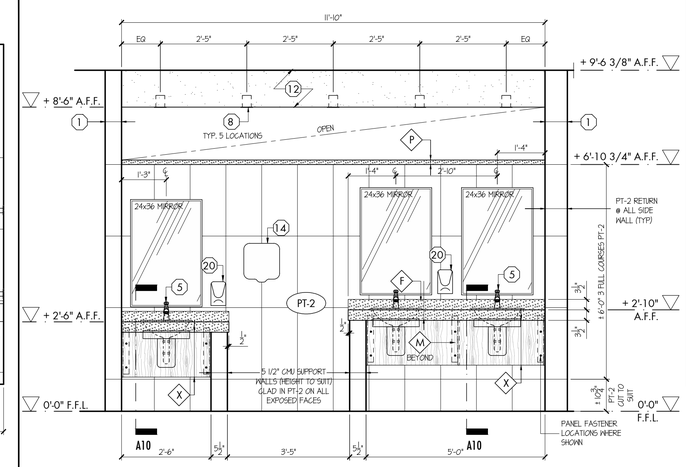


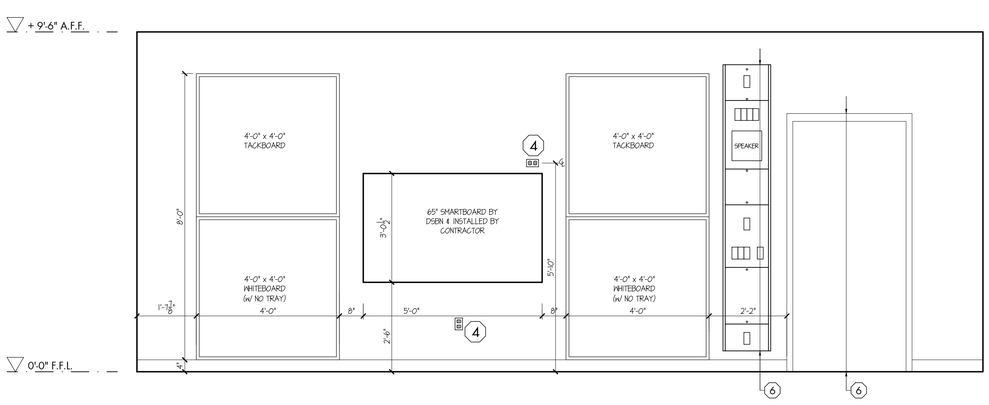

50 INTERIOR ELEVATION: Boys WR [206] & [306]

SCALE: 1/2" = 1'-0"



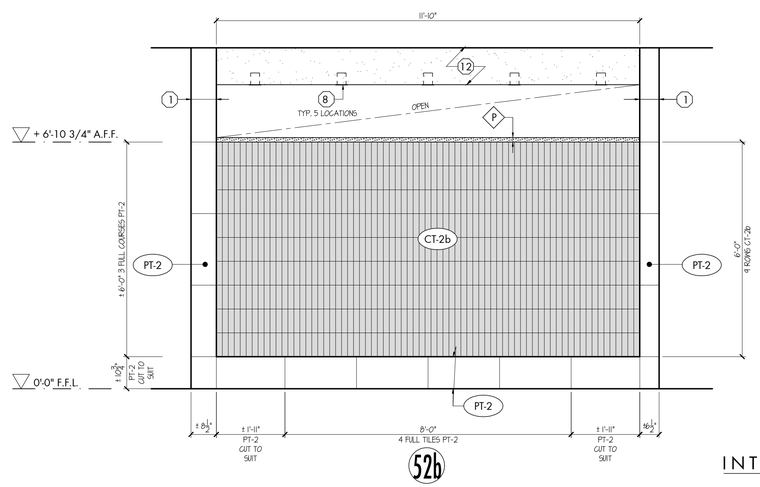

52a INTERIOR ELEVATION: Sinks [100-9]

SCALE: 1/2" = 1'-0"

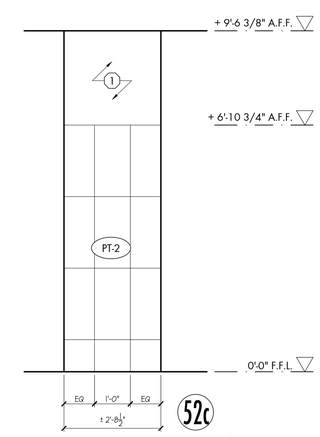



INTERIOR ELEVATION: Special Needs [123] & [122] rev. 51

SCALE: 1/2" = 1'-0"




52b




52c

INTERIOR ELEVATION: Sink Wall [100-9]

SCALE: 1/2" = 1'-0"

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| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

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KEVIN MARK EMRICH
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905-688-6087
www@whitelinearchitects.com

DRAWING TITLE:

**Washoom Interior Elevations**

SCALE: As Noted

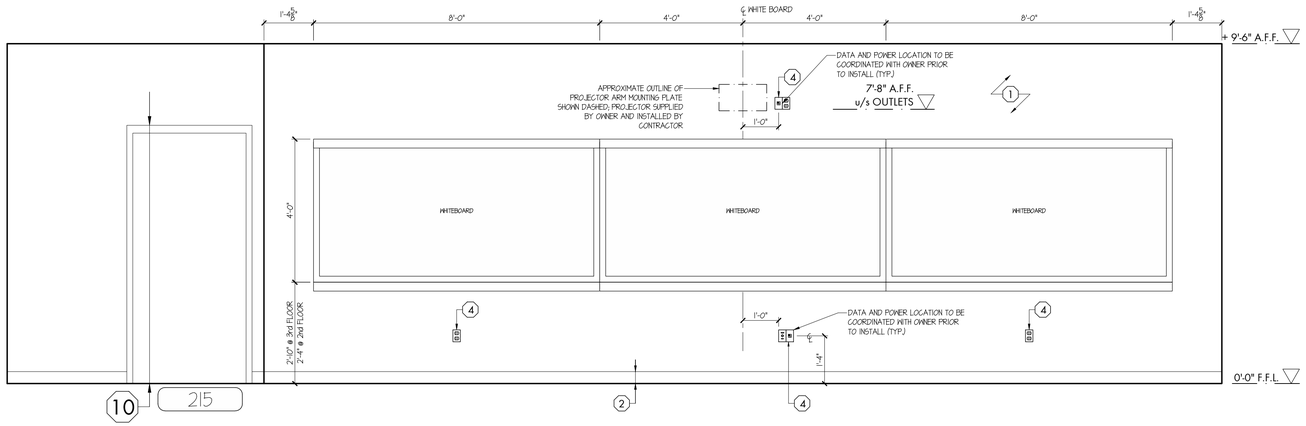
DRAWN: DWG

DATE: December 2024

PROJECT #: 2501

DRAWING #: A8-8

PLOTTED 3/31/2026 2:58 PM

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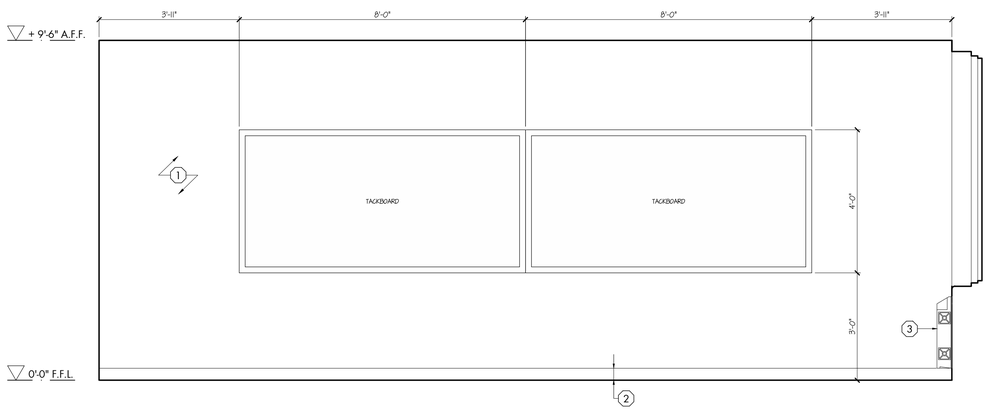


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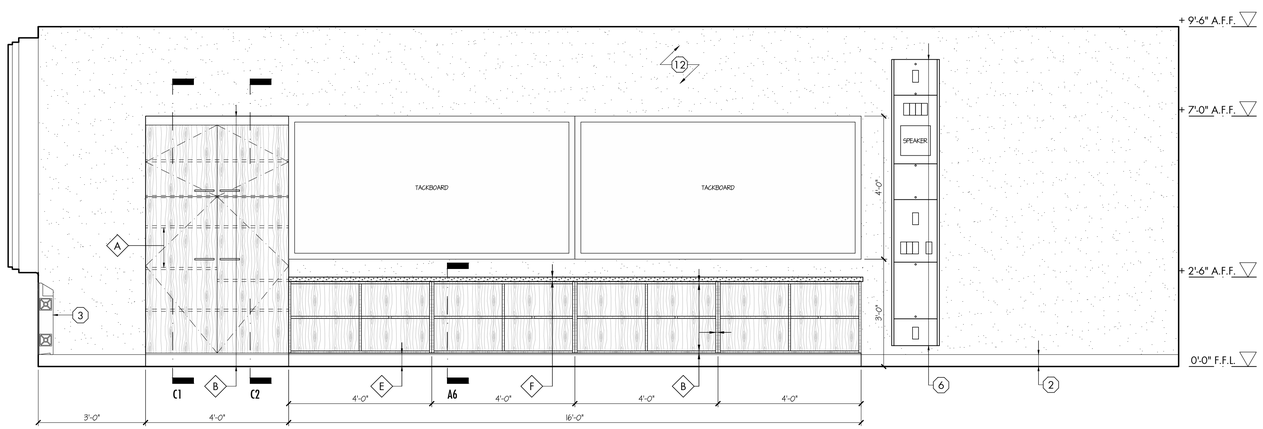
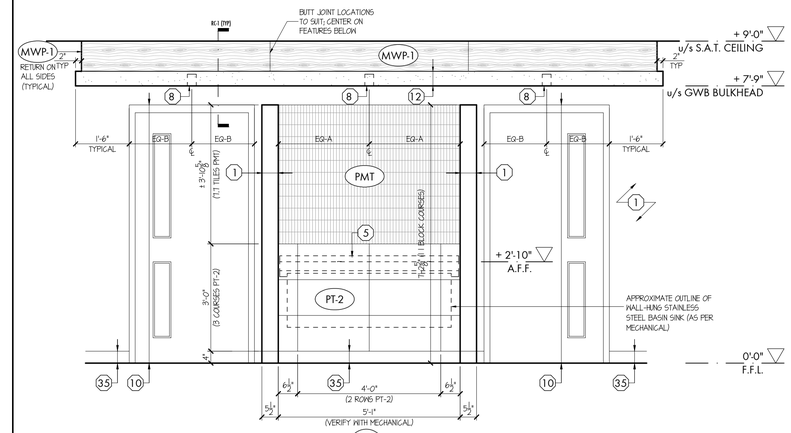



55

INTERIOR ELEVATION: Classrooms [315]

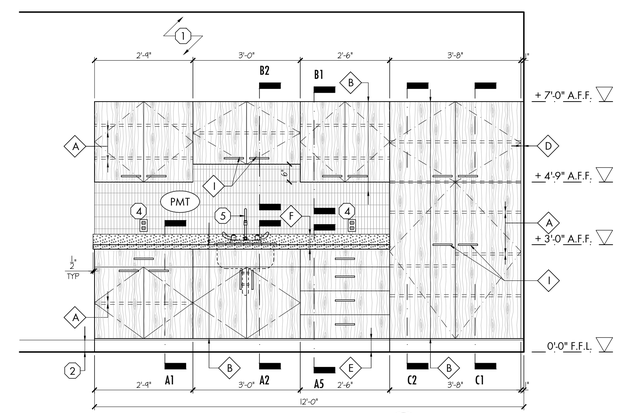
SCALE: 1/2" = 1'-0"




56

INTERIOR ELEVATION: Typical Corridor Handwash Sink

SCALE: 1/2" = 1'-0"



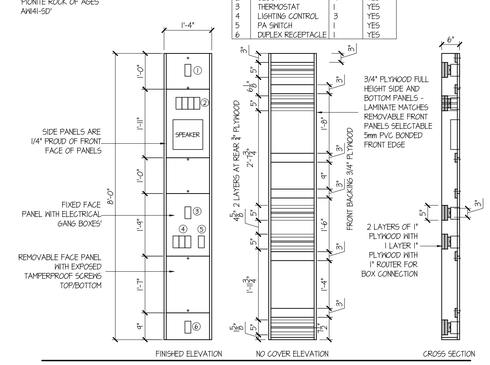

57

INTERIOR ELEVATION: Learning Commons [212]

SCALE: 1/2" = 1'-0"

NOTE:
ALL PL. LAM. FACING PANELS ON MCP TO BE FINISHED IN "PIONITE ROCK OF AGES AN641-5D"

| BOX | DESCRIPTION | #GANGS | INCLUDE |
|---|---|---|---|
| 1 | FIRE DEVICE | 1 | YES |
| 2 | CLOCK | 4 | YES |
| 3 | THERMOSTAT | 1 | YES |
| 4 | LIGHTING CONTROL | 3 | YES |
| 5 | PA SWITCH | 1 | YES |
| 6 | DUPLEX RECEPTACLE | 1 | YES |




TYPICAL DETAIL: Millwork Control Panel (MCP)

SCALE: 1/2" = 1'-0"

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| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8807

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www@whitelinearchitects.com

DRAWING TITLE:

**Classrooms 215 & 315 Interior Elevations**

SCALE:
As Noted

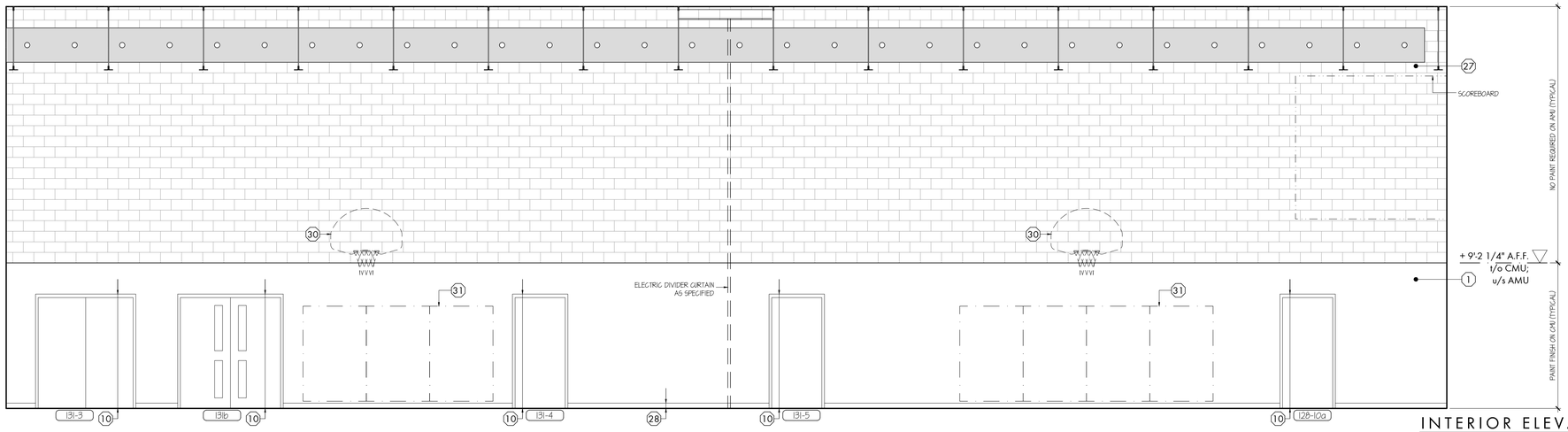
DRAWN:
DWG

DATE:
December 2024

PROJECT #:
2501

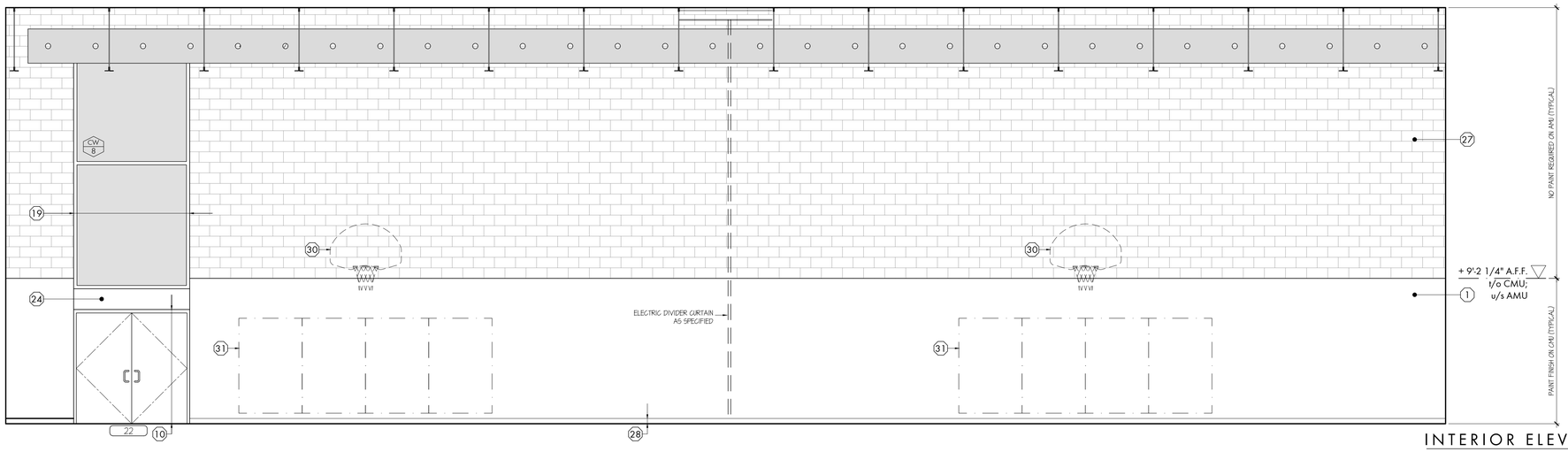
DRAWING #:
A8-9

PLOTTED 3/31/2026 3:00 PM



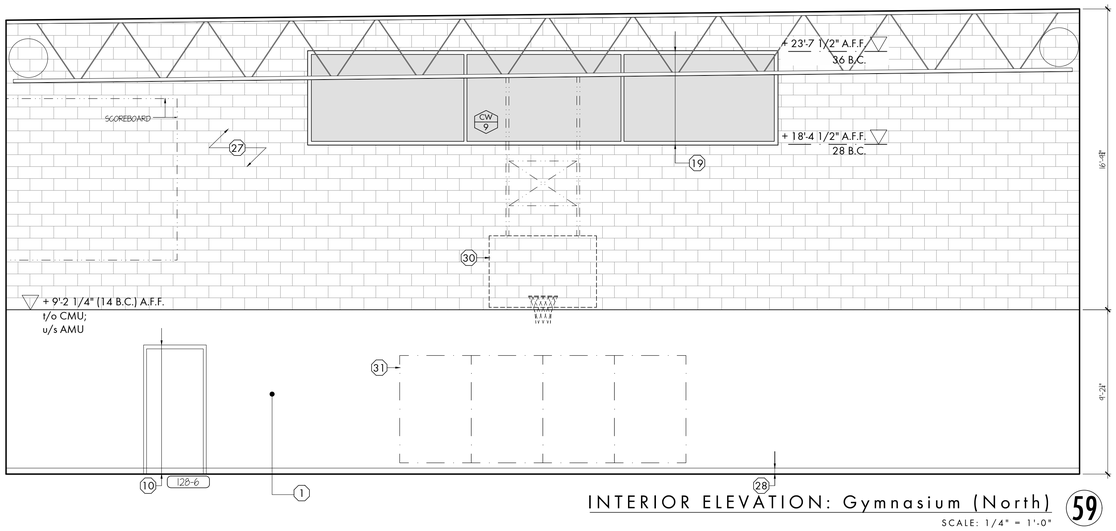

INTERIOR ELEVATION: Gymnasium (West) 57

SCALE: 1/4" = 1'-0"



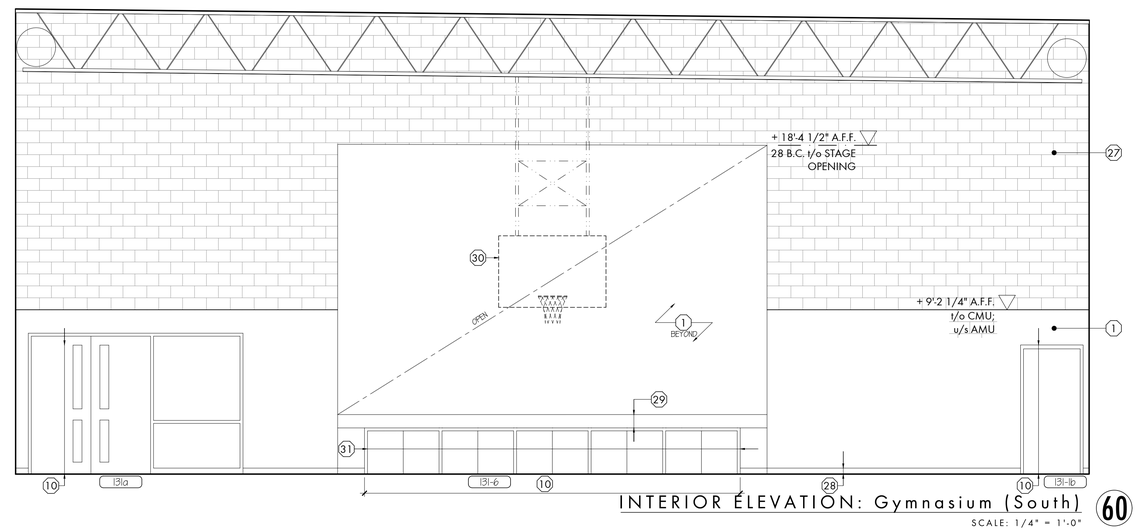

INTERIOR ELEVATION: Gymnasium (East) 58

SCALE: 1/4" = 1'-0"




INTERIOR ELEVATION: Gymnasium (North) 59

SCALE: 1/4" = 1'-0"




INTERIOR ELEVATION: Gymnasium (South) 60

SCALE: 1/4" = 1'-0"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www@whitelinearchitects.com


DRAWING TITLE:

**Gymnasium Interior Elevations**

SCALE: As Noted

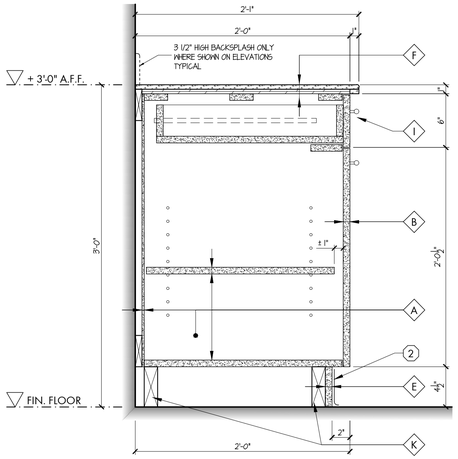
DRAWN: DWG

DATE: December 2024

PROJECT #: 2501

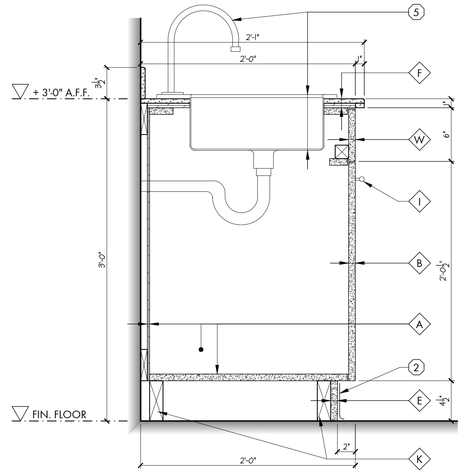
DRAWING #: A8-10

PLOTTED 3/31/2026 3:01 PM



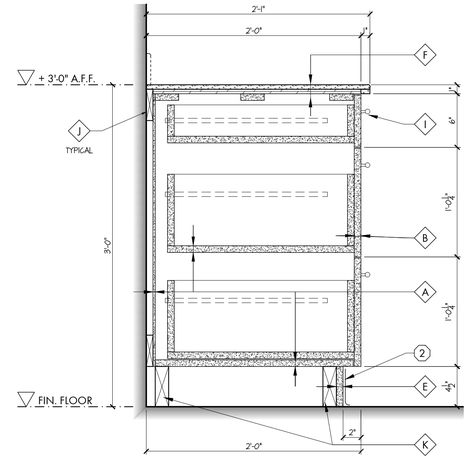

MILLWORK SECTION: Lower Drawer / Cabinet (A1 -)

SCALE: 1 1/2" = 1'-0"



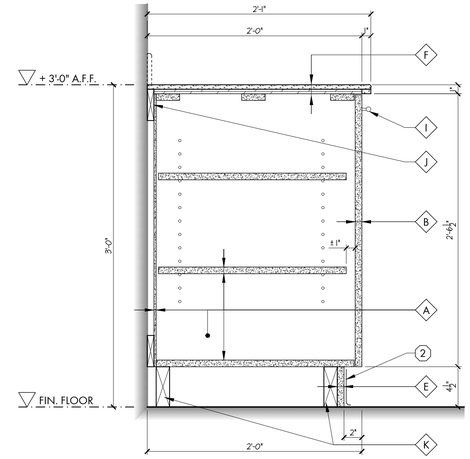

MILLWORK SECTION: Lower Sink Cabinet (A2 -)

SCALE: 1 1/2" = 1'-0"



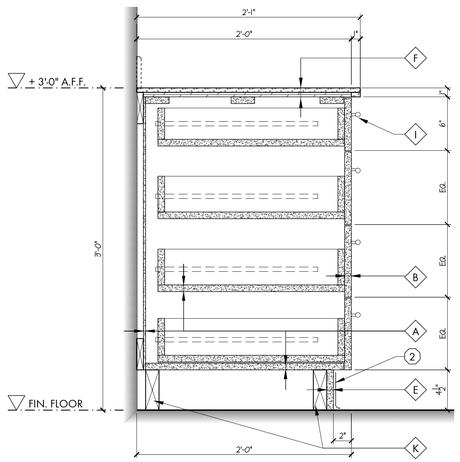

MILLWORK SECTION: Lower 3 Drawer (A3 -)

SCALE: 1 1/2" = 1'-0"



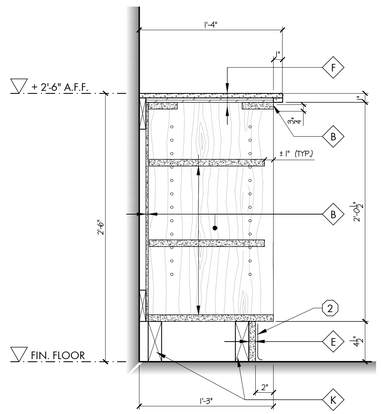

MILLWORK SECTION: Lower Cabinet (A4 -)

SCALE: 1 1/2" = 1'-0"



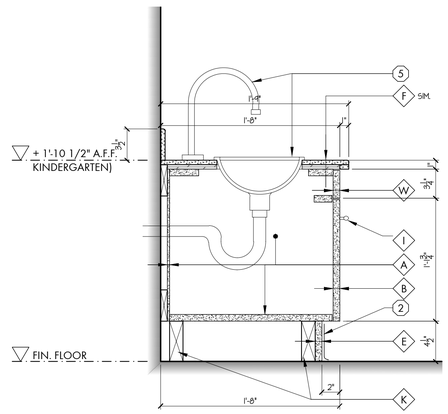

MILLWORK SECTION: Lower 4 Drawer (A5 -)

SCALE: 1 1/2" = 1'-0"



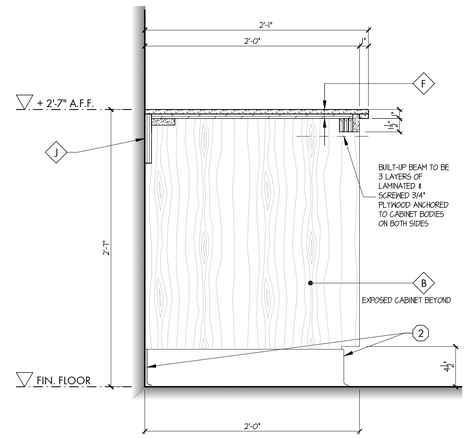

MILLWORK SECTION: Low Book Shelf (A6 -)

SCALE: 1 1/2" = 1'-0"



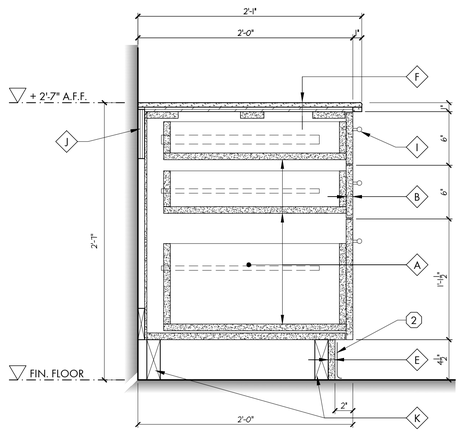

SECTION: Lowered Sink Cabinet (A7 -)

SCALE: 1 1/2" = 1'-0"



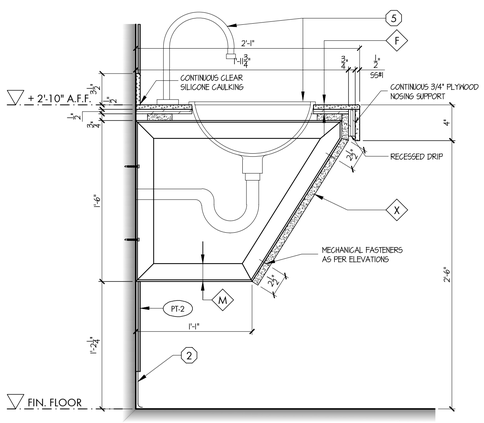

SECTION: Work Station Kneespace (A8 -)

SCALE: 1 1/2" = 1'-0"



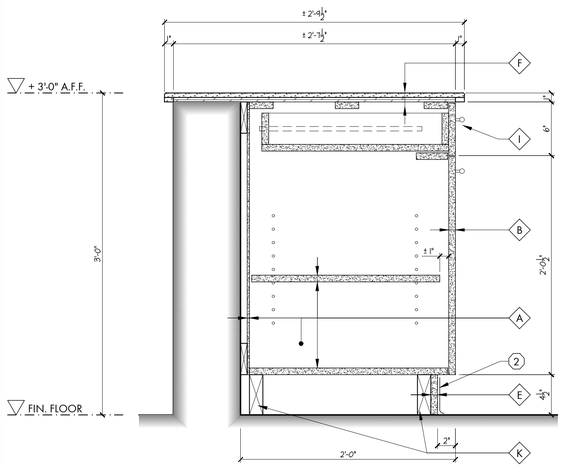

MILLWORK SECTION: Work Station Drawers (A9 -)

SCALE: 1 1/2" = 1'-0"



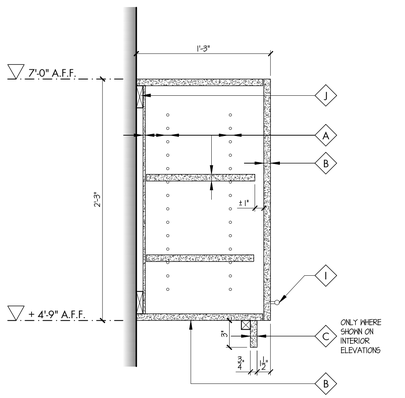

MILLWORK SECTION: Washroom Counter (A10 -)

SCALE: 1 1/2" = 1'-0"




MILLWORK SECTION: Lower at Counter Shutter (A11 -)

SCALE: 1 1/2" = 1'-0"




MILLWORK SECTION: Upper Cabinet (B1 -)

SCALE: 1 1/2" = 1'-0"

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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

# Elementary School

Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857

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www@whitelinearchitects.com

DRAWING TITLE:

**Millwork Details**

SCALE:
As Noted

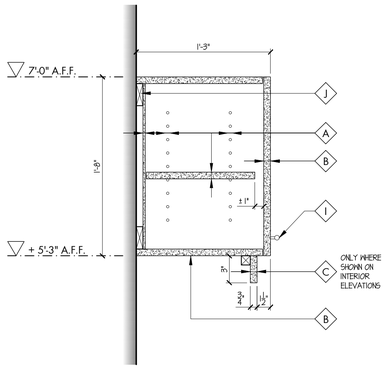
DRAWN:
DWG

DATE:
December, 2024

PROJECT #:
2425

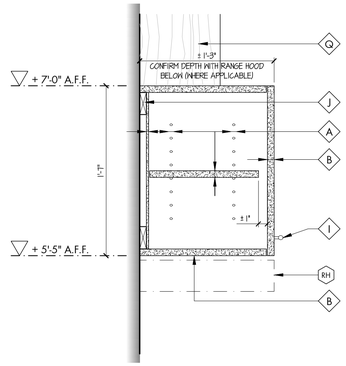
DRAWING #:
A9-1

PLOTTED 3/31/2026 2:59 PM



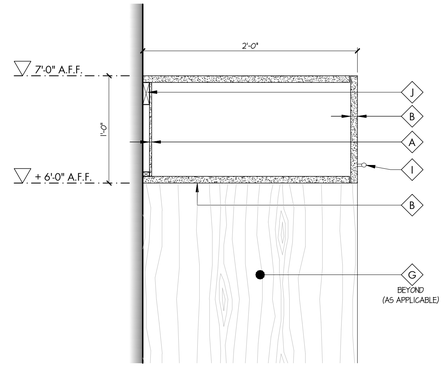

MILLWORK SECTION: Upper at Sink (B2)

SCALE: 1 1/2" = 1'-0"



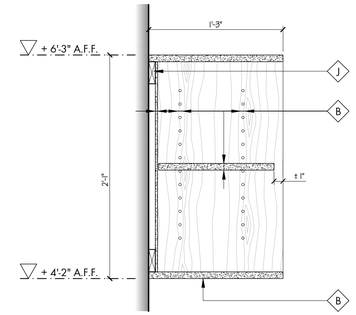

MILLWORK SECTION: Upper at Stove (B3)

SCALE: 1 1/2" = 1'-0"



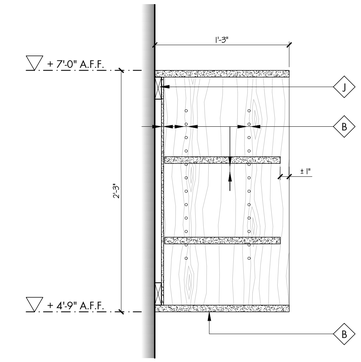

MILLWORK SECTION: Upper at Refridgerator (B4)

SCALE: 1 1/2" = 1'-0"



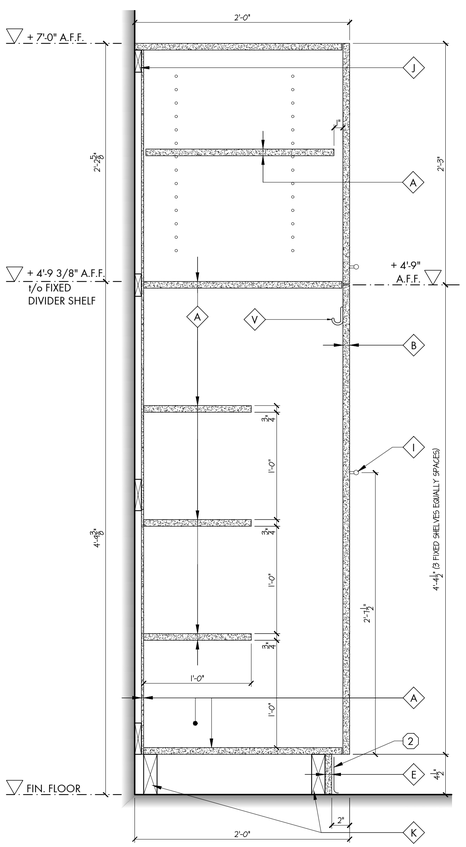

MILLWORK SECTION: Open Upper (B5)

SCALE: 1 1/2" = 1'-0"



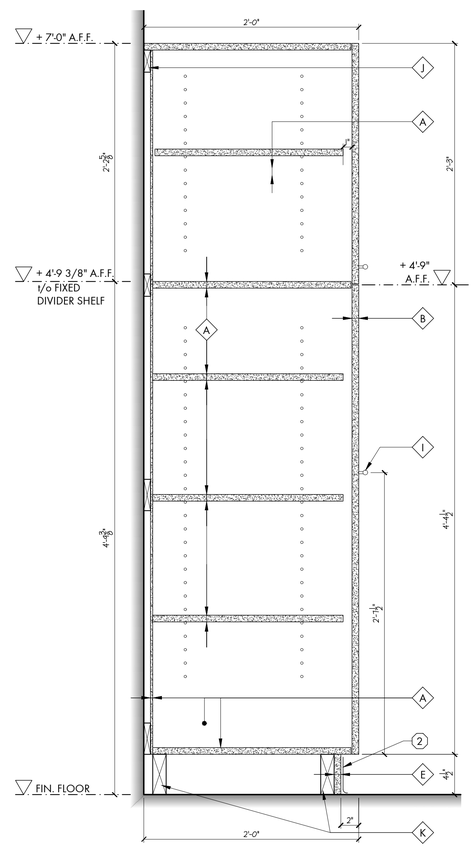

MILLWORK SECTION: Open Upper (B6)

SCALE: 1 1/2" = 1'-0"



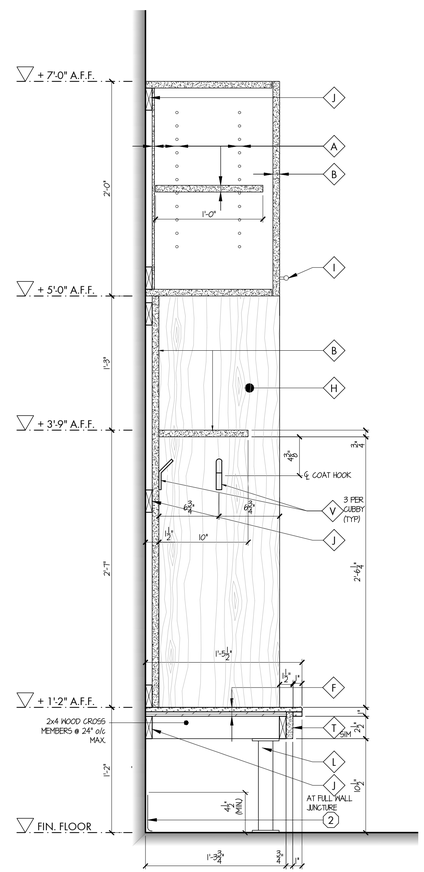

MILLWORK SECTION: Teachers Unit (C1)

SCALE: 1 1/2" = 1'-0"



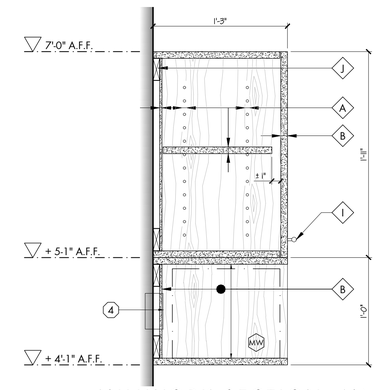

MILLWORK SECTION: Teachers Unit (C2)

SCALE: 1 1/2" = 1'-0"



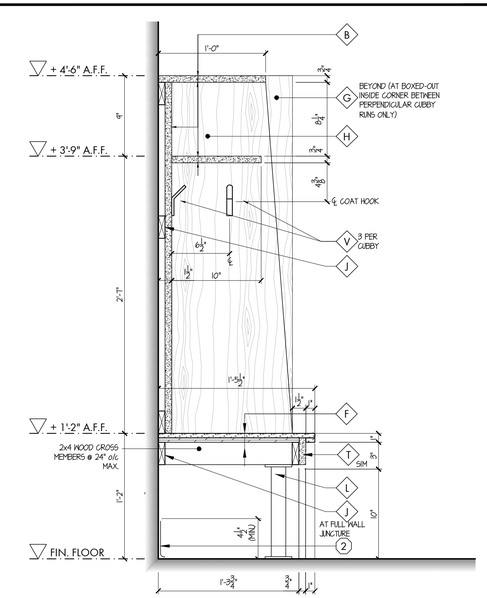

MILLWORK SECTION: Kindergarten Cubby (C3)

SCALE: 1 1/2" = 1'-0"




MILLWORK SECTION: Microwave (B7)

SCALE: 1 1/2" = 1'-0"




MILLWORK SECTION: Low Kindergarten Cubby (C4)

SCALE: 1 1/2" = 1'-0"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PROJECT:

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905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Millwork Details**

SCALE: As Noted

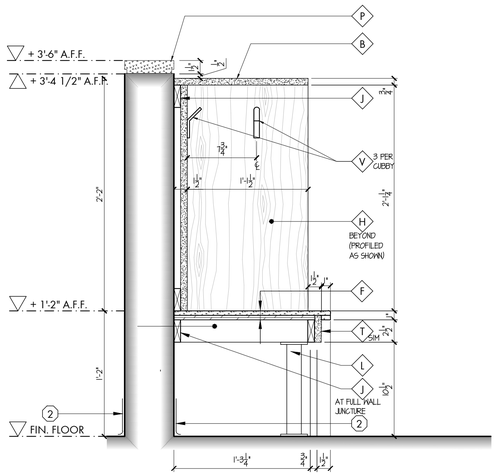
DRAWN: DWG

DATE: December, 2024

PROJECT #: 2425

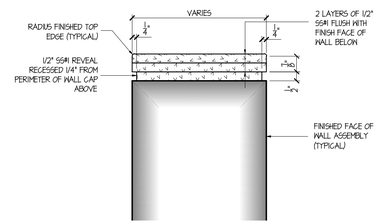
DRAWING #: A9-2

PLOTTED 3/31/2026 3:00 PM



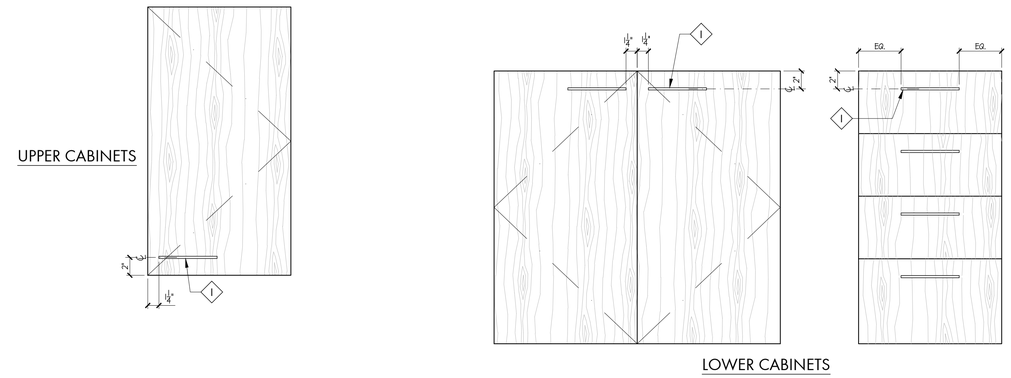

## MILLWORK SECTION: Low Daycare Cubby (C5)

SCALE: 1 1/2" = 1'-0"



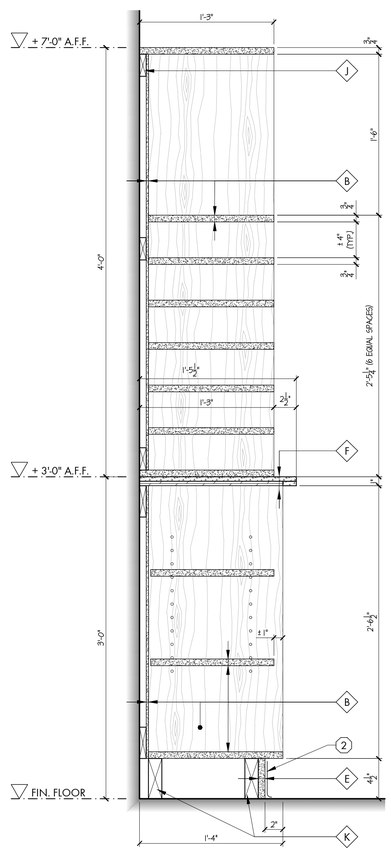

## MILLWORK SECTION: Typical Low Wall Cap (D1)

SCALE: 3" = 1'-0"



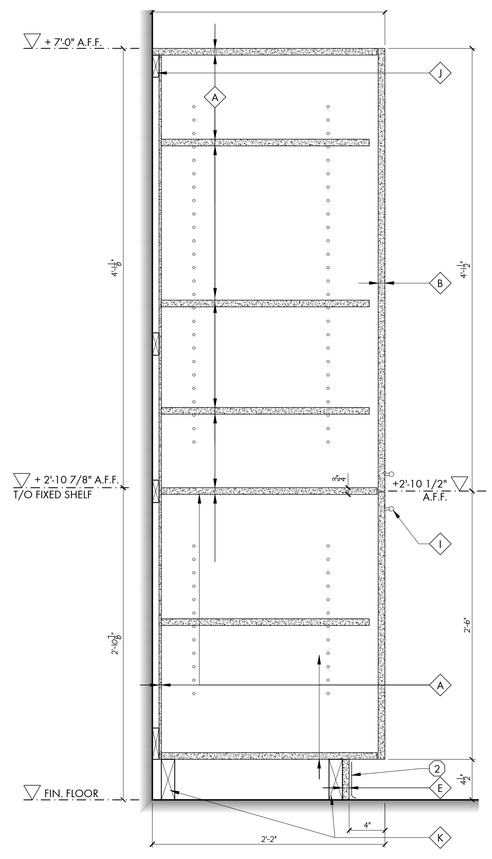

## TYP. CABINET / DRAWER PULL LOCATIONS (D2)

SCALE: 1 1/2" = 1'-0"



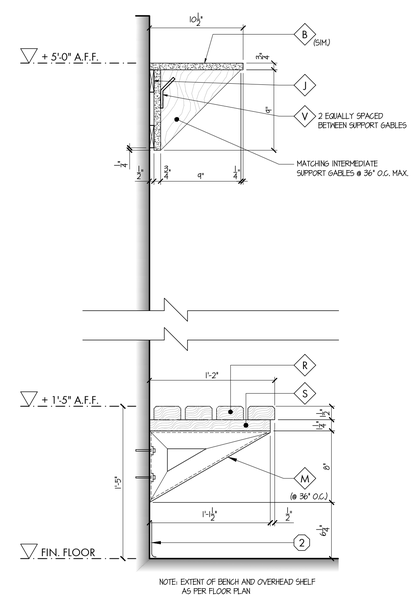

## MILLWORK SECTION: Copy Room Mail (C6)

SCALE: 1 1/2" = 1'-0"



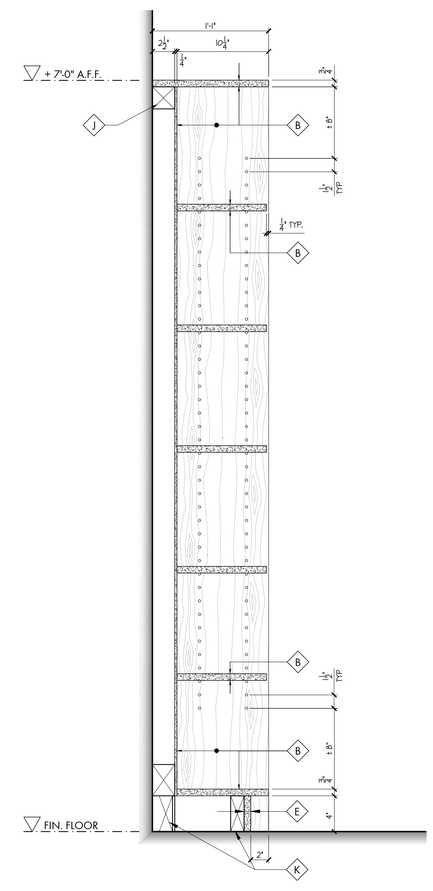

## MILLWORK SECTION: Pantry Cabinet (C7)

SCALE: 1 1/2" = 1'-0"




## MILLWORK SECTION: Change Room (C8)

SCALE: 1 1/2" = 1'-0"




## MILLWORK SECTION: Kindergarten Storage (C9)

SCALE: 1 1/2" = 1'-0"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| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

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For the DSBN

SEAL:

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KEVIN MARK EMRICH
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ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Millwork Details**

SCALE: As Noted

DRAWN: DWG

DATE: December, 2024

PROJECT #: 2425

DRAWING #: A9-3

PLOTTED 3/31/2026 3:00 PM

# DOOR SCHEDULE EXTERIOR

| ID # | LOCATION | | DOOR | | | | FRAME | | | | | RATING | GLAZING | LEGEND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | H.M. - HOLLOW METAL / PRESSED STEEL<br>H.M.I. - INSULATED HOLLOW METAL / PRESSED STEEL | | | | | | F.R.gl. - FIRE RATED GLASS<br>gl. - GLASS (SINGLE PANE)<br>V.P. - VISION PANE (INSULATED) | NOTE A: - CONCEALED CONTINUOUS STEEL REINFORCEMENT AT INTERIOR OF DOOR FRAME HEAD (FOR CLOSERS, OPERATORS ETC.)<br>NOTE B: - CONCEALED CONTINUOUS STEEL REINFORCEMENT @ INTERIOR OF DOOR JAMBS (FOR HEAVY DUTY ANCHORING @ EXTERIOR DOORS<br>NOTE C: - 4" HIGH SELF-ADHEARING BRUSHED STAINLESS STEEL KICKPLATE ON BOTH SIDES OF DOOR |
| NO. | FROM | TO | SIZE | MATERIAL | ELEV. | FINISH | MATERIAL | JAMB | ELEV. | FINISH | DEPTH | FIRE RATING | INSERTS | REMARKS |
| 01a | EXT | 100-1 | (2) 42" x 96 5/8" | Alum | 3 Sim. | SEE SPEC'S | Alum. | E | SEE REMARKS | SEE SPEC'S | 7 1/4" | | V.P. | Power Door Operator / Alphone / Card Reader / SEE CURTAIN WALL CW1 |
| 01b | EXT | 100-1 | 42" x 96 5/8" | Alum. | 3 Sim. | SEE SPEC'S | Alum. | E | SEE REMARKS | SEE SPEC'S | 7 1/4" | | V.P. | SEE CURTAIN WALL CW2 |
| 02 | EXT | 105-1 | 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-3 | PAINT | 6 3/4" | | V.P. | Card Reader |
| 03 | EXT | 106-1 | 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-3 | PAINT | 6 3/4" | | V.P. | Card Reader |
| 04 | EXT | 107-1 | 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-3 | PAINT | 6 3/4" | | V.P. | Card Reader |
| 05 | EXT | 108-1 | 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-3 | PAINT | 6 3/4" | | V.P. | Card Reader |
| 06 | EXT | 109-1 | 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-3 | PAINT | 6 3/4" | | V.P. | Card Reader |
| 07 | EXT | 100-7 | (2) 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-4 | PAINT | 6 3/4" | | V.P. | Power Door Operator / Card Reader |
| 08 | EXT | 110-1 | 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-6 | PAINT | 6 3/4" | | V.P. | Power Door Operator / Alphone / Card Reader |
| 09 | EXT | 110-17 | 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-3 | PAINT | 6 3/4" | | V.P. | Card Reader |
| 10 | EXT | 110-11 | 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-7 | PAINT | 6 3/4" | | V.P. | Card Reader |
| 11 | EXT | 110-11 | 38" x 84" | H.M.I. | 4 | PAINT | H.M.I. | A | F-7 | PAINT | 6 3/4" | | V.P. | Card Reader |
| 12 | EXT | 110 | 38" x 84" | H.M.I. | 1 | PAINT | H.M.I. | A | F-1 | PAINT | 6 3/4" | | | |
| 13 | EXT | 114 | (2) 38" x 84" | H.M.I. | 2 | PAINT | H.M.I. | A | F-4 | PAINT | 6 3/4" | | V.P. | Power Door Operator / Card Reader |
| 15 | EXT | 120 | (2) 38" x 84" | H.M.I. | 2 | PAINT | H.M.I. | A | F-4 | PAINT | 6 3/4" | | V.P. | Power Door Operator / Card Reader |
| 16 | EXT | 126 | 38" x 84" | H.M.I. | 1 | PAINT | H.M.I. | A | F-1 | PAINT | 6 3/4" | | | |
| 17 | EXT | 100-8 | (2) 38" x 84" | H.M.I. | 2 | PAINT | H.M.I. | A | F-5 | PAINT | 6 3/4" | | V.P. | Removable Mullion / Power Door Operator / Card Reader |
| 18 | EXT | 127 | 38" x 84" | H.M.I. | 1 | PAINT | H.M.I. | A | F-1 | PAINT | 6 3/4" | | | |
| 19 | EXT | 128-10 | 38" x 84" | H.M.I. | 1 | PAINT | H.M.I. | A | F-1 | PAINT | 6 3/4" | | | |
| 20 | EXT | 128-6 | 38" x 84" | H.M.I. | 2 | PAINT | H.M.I. | A | F-9 | PAINT | 6 3/4" | | V.P. | |
| 21 | EXT | 128-1 | 38" x 84" | Alum. | 3 Sim. | SEE SPEC'S | Alum. | E | SEE REMARKS | SEE SPEC'S | 7 1/4" | | V.P. | Power Door Operator / Card Reader / SEE CURTAIN WALL CW6 |
| 22 | EXT | 131 | (2) 42" x 84" | H.M.I. | 1 | PAINT | H.M.I. | A | F-2 | PAINT | 6 3/4" | | | |
| 23 | EXT | 221 | 42" x 84" | H.M.I. | 1 | PAINT | H.M.I. | A | F-1 | PAINT | 6 3/4" | | | |
| 24 | EXT | 212-2 | 38" x 84" | H.M.I. | 1 | PAINT | H.M.I. | A | F-1 | PAINT | 6 3/4" | | | |
| 25 | EXT | 132 | 38" x 84" | H.M.I. | 1 | PAINT | H.M.I. | A | F-1 | PAINT | 6 3/4" | | | |

# DOOR SCHEDULE FIRST FLOOR LEVEL

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100-1 | 100-2 | 100-1 | (2) 42" x 96 5/8" | Alum. | 4 Sim. | SEE SPEC'S | Alum. | F | F-12 | SEE SPEC'S | 4 1/2" | | gl. | Power Door Operator |
| 100-5 | 100-4 | 100-5 | (2) 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-11 | PAINT | 8 3/4" | | gl. | Hold Open Device / Contra Swing Frame |
| 100-5c | 100-5 | 100-5c | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 100-5d | 100-5 | 100-5d | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 100-7 | 100-6 | 100-7 | (2) 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-2 | PAINT | 8 3/4" | | gl. | Power Door Operator |
| 100-8 | 100-4 | 100-8 | (2) 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-11 | PAINT | 8 3/4" | | gl. | Removable Mullion / Power Door Operator |
| 100-9a | 100-9 | 100-9a | 28" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 6 3/4" | | | |
| 100-9b | 100-9 | 100-9b | 28" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 6 3/4" | | | |
| 100-9c | 100-9 | 100-9c | 28" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 6 3/4" | | | |
| 100-9d | 100-9 | 100-9d | 28" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 6 3/4" | | | |
| 101 | 100-2 | 101 | 38" x 92 1/2"* | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 102a | 100-1 | 102 | 42" x 96 5/8" | Alum. | 4 Sim. | SEE SPEC'S | Alum. | F | F-13 | SEE SPEC'S | 4 1/2" | | gl. | Power Door Operator |
| 102b | 100-3 | 102 | 38" x 96 5/8" | Alum. | 4 Sim. | SEE SPEC'S | Alum. | F | F-14 | SEE SPEC'S | 4 1/2" | | gl. | Power Door Operator |
| 102-1 | 102 | 102-1 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-17 | PAINT | 5 3/4" | | gl. | |
| 102-2 | 102 | 102-2 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-17 | PAINT | 5 3/4" | | gl. | |
| 102-3 | 100-3 | 102-3 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-15 | PAINT | 5 3/4" | | gl. | |
| 102-5 | 102-3 | 102-5 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | gl. | |
| 102-6 | 102-3 | 102-6 | 36" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 102-7 | 102-3 | 102-7 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-9 | PAINT | 5 3/4" | | gl. | |
| 103 | 100-4 | 103 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | Closer |
| 104 | 100-4 | 104 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | Power Door Operator / push to lock |
| 105 | 100-5 | 105 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 105-1 | 105 | 105-1 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-20 | PAINT | 8 3/4" | | gl. | |
| 105-2 | 105 | 106 | 38" x 84" | H.M. | 7 | PAINT | H.M. | B | F-20 | PAINT | 8 3/4" | | gl. | |
| 106 | 100-5 | 106 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 106-1 | 106 | 106-1 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-20 | PAINT | 8 3/4" | | gl. | |
| 106-2 | 106 | 107 | 38" x 84" | H.H. | 7 | PAINT | H.M. | B | F-20 | PAINT | 8 3/4" | | gl. | |
| 107 | 100-5 | 107 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 107-1 | 107 | 107-1 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-20 | PAINT | 8 3/4" | | gl. | |
| 107-2 | 107 | 108 | 38" x 84" | H.M. | 7 | PAINT | H.M. | B | F-20 | PAINT | 8 3/4" | | gl. | |
| 108 | 100-5 | 108 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 108-1 | 108 | 108-1 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-20 | PAINT | 8 3/4" | | gl. | |
| 108-2 | 108 | 109 | 38" x 84" | H.H. | 7 | PAINT | H.M. | B | F-20 | PAINT | 8 3/4" | | gl. | |
| 109 | 100-5 | 109 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 109-1 | 109 | 109-1 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-20 | PAINT | 8 3/4" | | gl. | |
| 110 | 100-5 | 110 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 110-1 | 110 | 110-1 | 38" x 84" | H.M. | 4 | PAINT | H.M. | D | F-21 | PAINT | 5 3/4" | | gl. | Power Door Operator |
| 110-2 | 110 | 110-2 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | gl. | |
| 110-3 | 110 | 110-3 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 110-4 | 110 | 110-4 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |

# DOOR SCHEDULE FIRST FLOOR LEVEL (Cont.)

| ID # | LOCATION | | DOOR | | | | FRAME | | | | | RATING | GLAZING | LEGEND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | H.M. - HOLLOW METAL / PRESSED STEEL<br>H.M.I. - INSULATED HOLLOW METAL / PRESSED STEEL | | | | | | F.R.gl. - FIRE RATED GLASS<br>gl. - GLASS (SINGLE PANE)<br>V.P. - VISION PANE (INSULATED) | NOTE A: - CONCEALED CONTINUOUS STEEL REINFORCEMENT AT INTERIOR OF DOOR FRAME HEAD (FOR CLOSERS, OPERATORS ETC.)<br>NOTE B: - CONCEALED CONTINUOUS STEEL REINFORCEMENT @ INTERIOR OF DOOR JAMBS (FOR HEAVY DUTY ANCHORING @ EXTERIOR DOORS<br>NOTE C: - 4" HIGH SELF-ADHEARING BRUSHED STAINLESS STEEL KICKPLATE ON BOTH SIDES OF DOOR |
| NO. | FROM | TO | SIZE | MATERIAL | ELEV. | FINISH | MATERIAL | JAMB | ELEV. | FINISH | DEPTH | FIRE RATING | INSERTS | REMARKS |
| 110-5 | 110 | 110-5 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | gl. | |
| 110-6 | 110 | 110-6 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | Power Door Operator |
| 110-7 | 110 | 110-6 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | gl. | |
| 110-8 | 110 | 110-8 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-9 | PAINT | 8 3/4" | | gl. | |
| 110-8a | 110-8 | CLOSET | (2) 24" x 84" | H.M. | 1 | PAINT | H.M. | B | F-11 | PAINT | 5 3/4" | | | |
| 110-8b | 110-8 | CLOSET | (2) 24" x 84" | H.M. | 1 | PAINT | H.M. | B | F-11 | PAINT | 5 3/4" | | | |
| 110-9a | 110-8 | 110-9 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 110-9b | 110-13 | 110-9 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 110-10 | 110 | 110-10 | 38" x 84" | H.M. | 6 | PAINT | H.M. | B | F-22 | PAINT | 5 3/4" | | | Partial Hieght Door |
| 110-11a | 110-10 | 110-11 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-9 | PAINT | 5 3/4" | | gl. | |
| 110-11b | 110-12 | 110-11 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-9 | PAINT | 5 3/4" | | gl. | |
| 110-12 | 110-13 | 110-12 | 38" x 84" | H.M. | 6 | PAINT | H.M. | B | F-22 | PAINT | 5 3/4" | | | Partial Hieght Door |
| 110-13 | 110 | 110-13 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-9 | PAINT | 8 3/4" | | gl. | |
| 110-13a | 110-13 | CLOSET | (2) 24" x 84" | H.M. | 1 | PAINT | H.M. | B | F-11 | PAINT | 5 3/4" | | | |
| 110-14 | 110 | 110-14 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-9 | PAINT | 8 3/4" | | gl. | |
| 110-15 | 110-14 | 110-15 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | gl. | |
| 110-16 | 110-14 | 110-16 | 38" x 84" | H.M. | 6 | PAINT | H.M. | B | F-22 | PAINT | 5 3/4" | | | Partial Hieght Door |
| 110-17 | 110-14 | 110-17 | 38" x 84" | H.M. | 4 | PAINT | H.M. | D | F-21 | PAINT | 8 3/4" | | gl. | |
| 111 | 100-6 | 111 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 112 | 100-6 | 112 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 113 | 100-5 | 113 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 114 | 100-5 | 114 | (2) 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-25 | PAINT | 8 3/4" | 45 min. | FR.gl. | Hold Open Device |
| 115 | 100-5 | 115 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 116 | 100-5 | 115 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 117 | 100-5 | 117 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 118 | 100-5 | 118 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 120 | 100-4 | 120 | (2) 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-23 | PAINT | 8 3/4" | 45 min. | FR.gl. | Hold Open Device |
| 121 | 100-4 | 121 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | 45 min. | | |
| 122 | 100-4 | 122 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 122-1a | 122 | 122-1 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 122-1b | 123 | 122-1 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 122-2 | 122-1 | 122-2 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | gl. | |
| 122-3 | 122 | 122-3 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | Power Door Operator |
| 122-4 | 122 | 122-4 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 123 | 100-4 | 123 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 123-1 | 123 | 123-1 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | Power Door Operator |
| 123-2 | 123 | 123-2 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 124 | 100-4 | 124 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 125 | 100-8 | 125 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 126 | 125 | 126 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | 45 min. | | |
| 128-1 | 128 | 128-1 | 38" x 84" | H.M. | 4 | PAINT | H.M. | D | F-24 | PAINT | 5 3/4" | | gl. | Power Door Operator |
| 128-2 | 128 | 128-2 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B / D | F-1 | PAINT | 5 3/4" | | gl. | |
| 128-3 | 128 | 128-3 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 128-4 | 128 | 128-4 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-24 | PAINT | 5 3/4" | | gl. | |
| 128-5 | 128 | 128-5 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-24 | PAINT | 5 3/4" | | gl. | |
| 128-6 | 131 | 128 | 38" x 84" | H.M. | 1 | PAINT | H.M. | C | F-1 | PAINT | 4 3/4" | 20 min. | | |
| 128-7 | 128-6 | 128-7 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 128-8 | 128-6 | 128-8 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 128-9 | 128-6 | 128-9 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 128-10a | 131 | 128-10 | 38" x 84" | H.M. | 1 | PAINT | H.M. | C | F-1 | PAINT | 4 3/4" | 20 min. | | |
| 128-10b | 128-6 | 128-10 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 129 | 100-4 | 129 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | 45 min. | | |
| 130 | 100-4 | 130 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 131a | 100-2 | 131 | (2) 38" x 92 1/2" | H.M. | 2 | PAINT | H.M. | C | F-18 | PAINT | 4 3/4" | 20 min. | F.R.gl. | Power Door Operator |
| 131b | 100-4 | 131 | (2) 38" x 84" | H.M. | 2 | PAINT | H.M. | C | F-11 | PAINT | 4 3/4" | 20 min. | F.R.gl. | Removable Mullion |
| 131-1a | 100-3 | 131-1 | 38" x 84" | H.M. | 2 | PAINT | H.M. | C | F-1 | PAINT | 4 3/4" | 20 min. | F.R.gl. | Power Door Operator |
| 131-1b | 131 | 131-1 | 38" x 84" | H.M. | 2 | PAINT | H.M. | C | F-1 | PAINT | 4 3/4" | | | |
| 131-3 | 131 | 131-2 | (2) 36" x 84" | H.M. | 1 | PAINT | H.M. | C | F-11 | PAINT | 4 3/4" | | | |
| 131-4 | 131 | 131-4 | 38" x 84" | H.M. | 1 | PAINT | H.M. | C | F-1 | PAINT | 4 3/4" | | | |
| 131-5 | 131 | 131-5 | 38" x 84" | H.M. | 1 | PAINT | H.M. | C | F-1 | PAINT | 4 3/4" | | | |
| 131-6 | 131 | 131-6 | (10) 24" x 29.5" | H.M. | 6 | PAINT | H.M. | C | F-19 | PAINT | 4 3/4" | | | Under Stage Storage / 5 PAIRS OF DOORS |
| 132 | 100-3 | 132 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |

TYPICAL NOTE:
FIRE RESISTANCE RATING ON ALL DOORS, FRAMES , AND ASSOCIATED GLASS HEREIN TO CONFORM TO F.R.R.'S FOR ASSOCIATED ASSEMBLIES AS SHOWN ON A2-0; ENSURE THAT 1-HR F.R.R. SEPARATIONS ARE FITTED WITH 45min. DOORS & 30min. F.R.R. SEPARATIONS ARE FITTED WITH 20min. F.R.R. DOORS


THESE DRAWINGS ARE NOT TO BE SCALED

ALL DRAWINGS, THE DESIGN, AND THE DETAILS THEREON REMAIN THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE ALTERED, RE-USED OR REPRODUCED WITHOUT THE ARCHITECT'S EXPRESS WRITTEN CONSENT.

THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MUST CONFIRM & CORRELATE ALL DETAILS WITHIN THE FULL DRAWING PACKAGE BEING RESPONSIBLE FOR SAME THROUGHOUT CONSTRUCTION, REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING THE RELEVANT WORK

ALL DRAWINGS, DETAILS & SPECIFICATIONS REPRESENTED IN THE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY WHEN ISSUED BY THE ARCHITECT AND NOTED ACCORDINGLY IN THE "ISSUE/REVISIONS" BOX HEREON.


| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

**Elementary School**

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857


WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Door Schedule - First Floor**

SCALE: As Noted

DRAWN: SB

DATE: March 2025

PROJECT #: 2501

DRAWING #: SC-1

PLOTTED 3/31/2026 2:59 PM

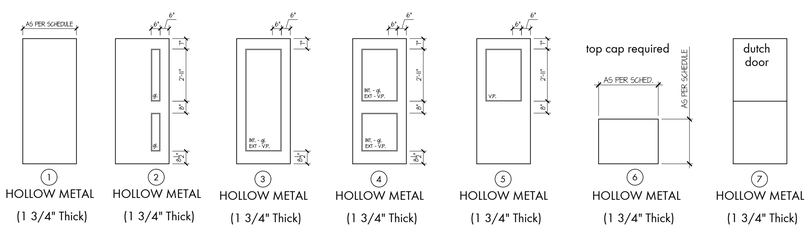
# DOOR SCHEDULE SECOND FLOOR LEVEL

| ID # | LOCATION | | DOOR | | | | FRAME | | | | | RATING | GLAZING | LEGEND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | H.M. - HOLLOW METAL / PRESSED STEEL<br>H.M.I. - INSULATED HOLLOW METAL / PRESSED STEEL | | | | | | F.R.gl. - FIRE RATED GLASS<br>gl. - GLASS (SINGLE PANE)<br>V.P. - VISION PANE (INSULATED) | NOTE $A_1$ - CONCEALED CONTINUOUS STEEL REINFORCEMENT AT INTERIOR OF DOOR FRAME HEAD (FOR CLOSERS, OPERATORS ETC.)<br>NOTE $B_1$ - CONCEALED CONTINUOUS STEEL REINFORCEMENT @ INTERIOR OF DOOR JAMBS (FOR HEAVY DUTY ANCHORING @ EXTERIOR DOORS<br>NOTE $C_1$ - 4" HIGH SELF-ADHEARING BRUSHED STAINLESS STEEL KICKPLATE ON BOTH SIDES OF DOOR |
| NO. | FROM | TO | SIZE | MATERIAL | ELEV. | FINISH | MATERIAL | JAMB | ELEV. | FINISH | DEPTH | FIRE RATING | INSERTS | REMARKS |
| 201 | 200 | 201 | (2) 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-25 | PAINT | 8 3/4" | 45 min. | FR.gl. | Hold Open Device |
| 202 | 200 | 202 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 203 | 200 | 203 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 204 | 200 | 204 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | Power Door Operator / push to lock |
| 207 | 200 | 207 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 208 | 200 | 208 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 209 | 200 | 209 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 209-1 | 209 | 209-1 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | gl. | |
| 209-2 | 209 | 209-2 | 30" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 209-3 | 209 | 209-3 | 30" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 209-4 | 209 | 209-4 | 30" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 210 | 200 | 210 | (2) 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-25 | PAINT | 8 3/4" | 45 min. | FR.gl. | Hold Open Device |
| 211 | 200 | 211 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | 45 min. | | |
| 212a | 200 | 212 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-16 | PAINT | 8 3/4" | | gl. | |
| 212b | 200 | 212 | 38" x 84" | H.M. | 4 | PAINT | H.M. | B | F-16 | PAINT | 8 3/4" | | gl. | |
| 212-1 | 212 | 212-1 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 212-2 | 212 | 212-2 | 36" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 213 | 200 | 213 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 214 | 200 | 214 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 217 | 200 | 217 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 218 | 200 | 218 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 219 | 200 | 219 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 220 | 200 | 220 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |

# DOOR SCHEDULE THIRD FLOOR LEVEL

| ID # | LOCATION | | DOOR | | | | FRAME | | | | | RATING | GLAZING | LEGEND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | H.M. - HOLLOW METAL / PRESSED STEEL<br>H.M.I. - INSULATED HOLLOW METAL / PRESSED STEEL | | | | | | F.R.gl. - FIRE RATED GLASS<br>gl. - GLASS (SINGLE PANE)<br>V.P. - VISION PANE (INSULATED) | NOTE $A_1$ - CONCEALED CONTINUOUS STEEL REINFORCEMENT AT INTERIOR OF DOOR FRAME HEAD (FOR CLOSERS, OPERATORS ETC.)<br>NOTE $B_1$ - CONCEALED CONTINUOUS STEEL REINFORCEMENT @ INTERIOR OF DOOR JAMBS (FOR HEAVY DUTY ANCHORING @ EXTERIOR DOORS<br>NOTE $C_1$ - 4" HIGH SELF-ADHEARING BRUSHED STAINLESS STEEL KICKPLATE ON BOTH SIDES OF DOOR |
| NO. | FROM | TO | SIZE | MATERIAL | ELEV. | FINISH | MATERIAL | JAMB | ELEV. | FINISH | DEPTH | FIRE RATING | INSERTS | REMARKS |
| 301 | 300 | 301 | (2) 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-25 | PAINT | 8 3/4" | 45 min. | FR.gl. | Hold Open Device |
| 302 | 300 | 302 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 303 | 300 | 304 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 304 | 300 | 303 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | Power Door Operator / push to lock |
| 307 | 300 | 307 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 308 | 300 | 308 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 309 | 300 | 309 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 309-1 | 309 | 309-1 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 5 3/4" | | | |
| 310 | 300 | 310 | (2) 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-25 | PAINT | 8 3/4" | 45 min. | FR.gl. | Hold Open Device |
| 311 | 300 | 311 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | 45 min. | | |
| 313 | 300 | 313 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 314 | 300 | 314 | 38" x 84" | H.M. | 1 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | | |
| 315 | 300 | 315 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 316 | 300 | 316 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 317 | 300 | 317 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 318 | 300 | 318 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 319 | 300 | 319 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |
| 320 | 300 | 320 | 38" x 84" | H.M. | 2 | PAINT | H.M. | B | F-1 | PAINT | 8 3/4" | | gl. | |

# DOOR TYPE ELEVATIONS

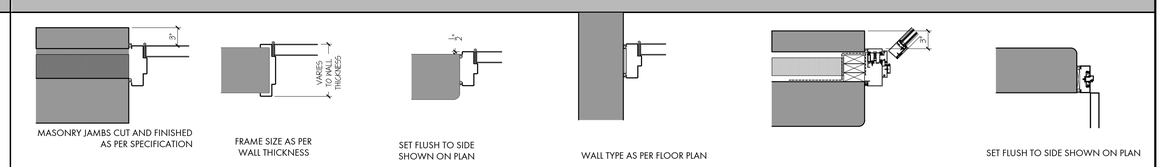



1 HOLLOW METAL (1 3/4" Thick)
2 HOLLOW METAL (1 3/4" Thick)
3 HOLLOW METAL (1 3/4" Thick)
4 HOLLOW METAL (1 3/4" Thick)
5 HOLLOW METAL (1 3/4" Thick)
6 HOLLOW METAL (1 3/4" Thick)
7 HOLLOW METAL (1 3/4" Thick)

DOOR AND FRAME NOTES:

1. CONTRACTOR TO VERIFY ALL FRAME SIZES (INCLUDING DEPTHS) AND REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR FURTHER CLARIFICATION PRIOR TO SHOP DRAWING SUBMISSION.
2. INSTALLATION ORIENTATIONS OF ALL DOOR AND DOOR FRAMES TO BE AS PER FLOOR PLANS.
3. ENSURE CLEAR, UNOBSTRUCTED PATH ABOVE FULL WIDTH OF DOOR HEADERS ALLOWING FOR LOW-VOLTAGE WIRING TO RUN AFTER FRAME INSTALLATION. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND OWNER FOR PREP. LOCATIONS
4. VERTICAL FRAME DIMENSIONS SHOWN INCLUDE DIMENSIONAL ALLOWANCE FOR FRAME WRAP OVER BLOCK COURSING (B.C.) OR G/KB, AS NOTED.

# JAMB TYPES




A TYPICAL H.M DOOR @ EXTERIOR — MASONRY JAMBS CUT AND FINISHED AS PER SPECIFICATION

B H.M. @ INTERIOR — FRAME SIZE AS PER WALL THICKNESS

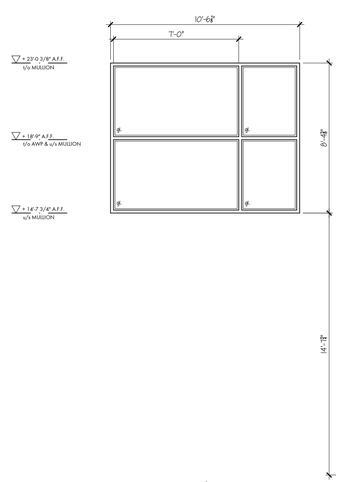
C H.M @ CONC. BLOCK — SET FLUSH TO SIDE SHOWN ON PLAN

D ALT. H.M. BUTT JAMB — WALL TYPE AS PER FLOOR PLAN

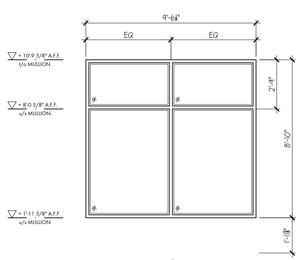
E TYPICAL ALUMINUM DOOR @ EXTERIOR

F ALUM. FRAME @ INTERIOR — SET FLUSH TO SIDE SHOWN ON PLAN

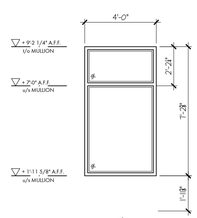
# INTERIOR GLAZING SCREENS



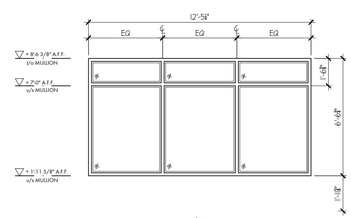

SC 1 ALUMINUM



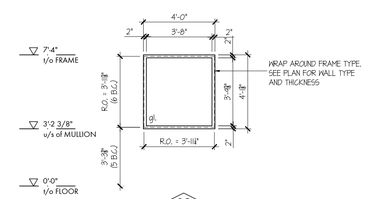

SC 2 ALUMINUM




SC 3 HOLLOW METAL




SC 4 HOLLOW METAL




SC 5 HOLLOW METAL

SCREEN NOTES:

1. CONTRACTOR TO VERIFY ALL FRAME SIZES (INCLUDING DEPTHS) AND REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR FURTHER CLARIFICATION PRIOR TO SHOP DRAWING SUBMISSION.
2. VERTICAL FRAME DIMENSIONS SHOWN INCLUDE DIMENSIONAL ALLOWANCE FOR FRAME WRAP OVER BLOCK COURSING (B.C.) OR G/KB, AS NOTED


THESE DRAWINGS ARE NOT TO BE SCALED

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THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MUST CONFIRM & CORRELATE ALL DETAILS WITHIN THE FULL DRAWING PACKAGE BEING RESPONSIBLE FOR SAME THROUGHOUT CONSTRUCTION, REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING THE RELEVANT WORK

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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

**Elementary School**

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857


WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Door Schedule - Second & Third Floors**

SCALE: As Noted

DRAWN: SB

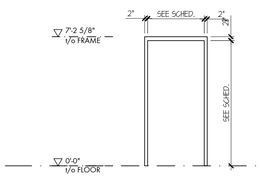
DATE: March 2025

PROJECT #: 2501

DRAWING #: SC-2

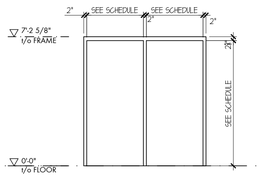
PLOTTED 3/31/2026 3:01 PM

# HOLLOW METAL & ALUMINUM DOOR FRAMES

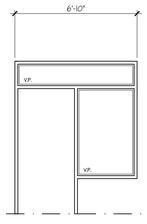



F-1
HOLLOW METAL

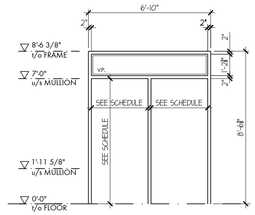
| | | | | | |
|---|---|---|---|---|---|
| 12 | 16 | 18 | 19 | 23 | 24 |
| 25 | 100-5c | 100-5d | 100-9a | 100-9b | 100-9c |
| 100-9d | 101 | 102-5 | 102-6 | 103 | 104 |
| 105 | 106 | 107 | 108 | 109 | 110 |
| 110-2 | 110-3 | 110-4 | 110-5 | 110-6 | 110-7 |
| 110-9a | 110-9b | 110-15 | 111 | 112 | 113 |
| 115 | 116 | 117 | 118 | 121 | 122 |
| 122-1a | 122-1b | 122-2 | 122-3 | 122-4 | 123 |
| 123-1 | 123-2 | 124 | 125 | 126 | 128-2 |
| 128-3 | 128-6 | 128-7 | 128-8 | 128-9 | 128-10a |
| 128-10b | 129 | 130 | 131-1a | 131-1b | 131-4 |
| 131-5 | 132 | 202 | 203 | 204 | 207 |
| 208 | 209 | 209-1 | 209-2 | 209-3 | 209-4 |
| 211 | 212-1 | 213 | 214 | 217 | 218 |
| 219 | 220 | 302 | 303 | 304 | 307 |
| 308 | 309 | 309-1 | 311 | 313 | 314 |
| 315 | 316 | 317 | 318 | 319 | 320 |



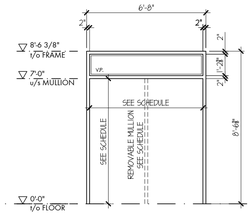

F-2
HOLLOW METAL
22 | 100-7



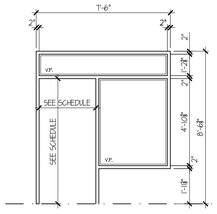

F-3
HOLLOW METAL
02 | 03 | 04
05 | 06 | 09



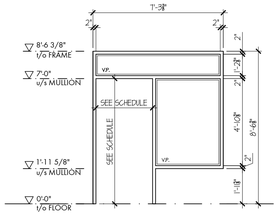

F-4
HOLLOW METAL
07 | 13 | 15



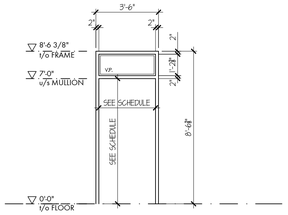

F-5
HOLLOW METAL
17



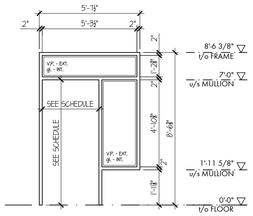

F-6
HOLLOW METAL
08



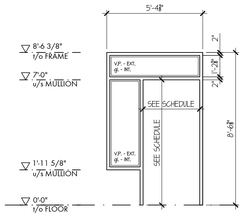

F-7
HOLLOW METAL
10 | 11



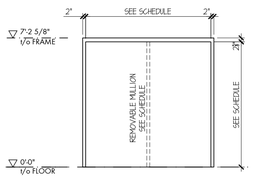

F-8
HOLLOW METAL
14



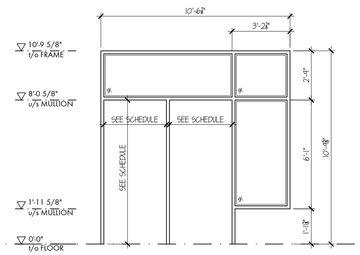

F-9
HOLLOW METAL
102-7



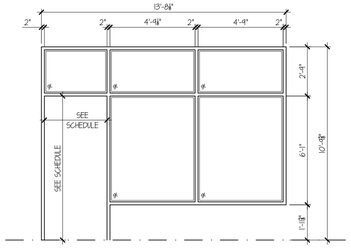

F-10
HOLLOW METAL
20 | 110-8 | 110-11a
110-11b | 110-13 | 110-14



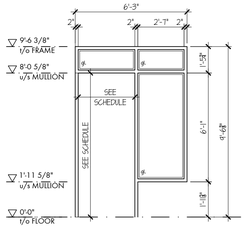

F-11
HOLLOW METAL
100-5 | 100-8 | 110-8a
110-8b | 110-13a | 131b
131-3



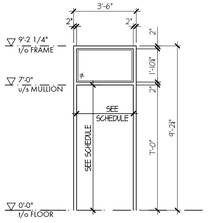

F-12
ALUMINUM
100-1



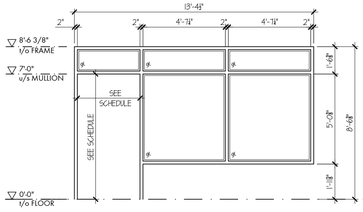

F-13
ALUMINUM
102a



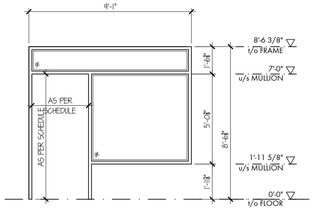

F-14
ALUMINUM
102b



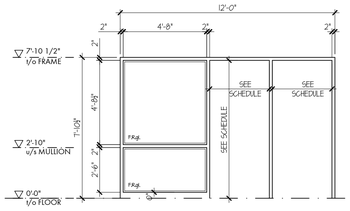

F-15
HOLLOW METAL
102-3



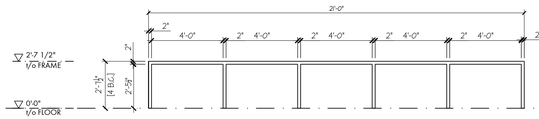

F-16
HOLLOW METAL
212a | 212b



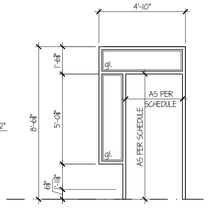

F-17
HOLLOW METAL
102-1 | 102-2



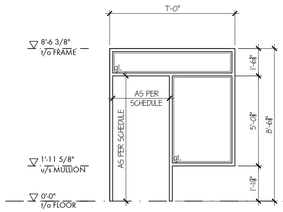

F-18
HOLLOW METAL
131a



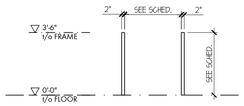

F-19
HOLLOW METAL
131-6



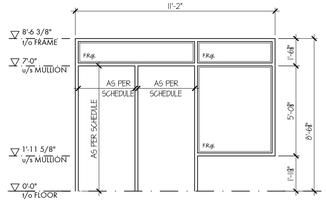

F-20
HOLLOW METAL
105-1 | 106-1 | 107-1
108-1 | 109-1 | 119-1



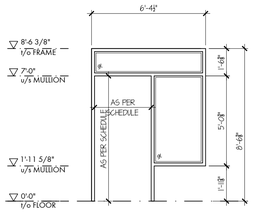

F-21
HOLLOW METAL
110-1 | 110-17



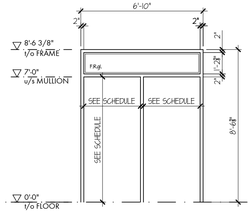

F-22
HOLLOW METAL
110-10 | 110-12 | 110-16




F-23
HOLLOW METAL
120




F-24
HOLLOW METAL
128-1 | 128-4 | 128-5




F-25
HOLLOW METAL
114 | 201 | 210
301 | 310


THESE DRAWINGS ARE NOT TO BE SCALED

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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

**Elementary School**

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857


WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Door Frame Types**

SCALE:
As Noted

DRAWN:
SB

DATE:
March 2025

PROJECT #:
2501

DRAWING #:
SC-3

PLOTTED 3/31/2026 2:59 PM

# ROOM FINISH SCHEDULE - FIRST FLOOR

| ROOM | | FLOORS | | | WALLS | | | CEILING | | | | GENERAL REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO. | NAME | FINISH | BASE | FLOORING NOTES | MATERIAL | FINISH | WALL NOTES | MATERIAL | FINISH | HEIGHT | CEILING NOTES | |
| 100-1 | VESTIBULE | PT-3, PT-5 | PTB | FN-1,FN-2 | GWB<br>CMU | PAINT, PT-1<br>CT-3a, AWP | WN-1 | SAC-1<br>EXP | FF<br>PAINT | 21'-0"<br>VARIES | CN-1 | |
| 100-2 | FOYER | PT-3, PT-4, PT-5 | PTB | FN-1,FN-2 | GWB<br>CMU | PAINT, AWP, CT-1<br>CT-2a, CT-3a,<br>MWP-1, MWP-2 | WN-1 | SAC-2<br>GWB, EXP | FF<br>PAINT | 18'-4"<br>VARIES | CN-1 | GN-1 |
| 100-3 | CORRIDOR | PT-3, PT-4, PT-5 | PTB | FN-1,FN-2 | CMU | PAINT, CT-2a, CT-3a<br>PT-2, MWP-1, MWP-2 | WN-1 | SAT-1<br>GWB | FF<br>PAINT | 9'-6 3/8"<br>9'-6 3/8" | CN-1 | GN-1 |
| 100-4 | CORRIDOR | PT-3, PT-4, PT-5 | PTB | FN-1,FN-2 | CMU | PAINT, CT-2b | WN-1 | SAT-1<br>GWB | FF<br>PAINT | 9'-6"<br>7'-9" - 9'-6" | CN-1 | |
| 100-5 | CORRIDOR | PT-3, PT-4, PT-5 | PTB | FN-1,FN-2 | CMU | PAINT, PT-2,<br>PMT | WN-1 | SAT-1<br>GWB | FF<br>PAINT | 9'-6"<br>7'-9" - 9'-6" | CN-1 | |
| 100-5a | GIRLS WR | PT-5 | PTB | | CMU | PAINT | WN-1, WN-3 | GWB | PAINT | 9'-6" | | GN-2 |
| 100-5b | BOYS WR | PT-4 | PTB | | CMU | PAINT | WN-1, WN-3 | GWB | PAINT | 9'-6" | | GN-2 |
| 100-5c | STAFF WR | PT-5 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-6" | | |
| 100-5d | STAFF WR | PT-4 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-6" | | |
| 100-6 | CORRIDOR | PT-3, PT-4, PT-5 | PTB | FN-1 | CMU | PAINT | | SAT-1<br>GWB | FF<br>PAINT | 9'-6"<br>9'-6" | CN-1 | |
| 100-7 | VESTIBULE | PT-4, PT-5 | PTB | FN-1 | CMU | PAINT | | GWB | PAINT | 9'-6" | | |
| 100-8 | VESTIBULE | PT-4 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-6" | | |
| 100-9 | WR | PT-4, PT-5 | PTB | FN-1,FN-2 | CMU | PAINT, PT-2,<br>CT-2b | WN-1 | SAT-1<br>GWB | FF<br>PAINT | 9'-6 3/8"<br>8'-6" | CN-1 | GN-1 |
| 100-9a | WR | PT-4 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-0" | | |
| 100-9b | WR | PT-5 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-0" | | |
| 100-9c | WR | PT-5 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-0" | | |
| 100-9d | WR | PT-5 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-0" | | |
| 100-10 | CORRIDOR | PT-3 | PTB | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| 101 | KITCHEN | LVT-3 | RB-1 | | CMU | PAINT, CT-2a | WN-1 | SAT-1 | FF | 9'-6" | | GN-1 |
| 102 | MAIN OFFICE | LVT-1, LVT-2,<br>LVT-3 | RB-1 | FN-1 | CMU<br>GWB | PAINT<br>PAINT | | SAT-2<br>GWB | FF<br>PAINT | 9'- 6 3/8" - 11'-0"<br>9'-6 3/8" | CN-1 | |
| 102-1 | PRINCIPAL | LVT-2 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-2 | FF | 9'-6" | | |
| 102-2 | VICE PRINCIPAL | LVT-2 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-2 | FF | 9'-6" | | |
| 102-3 | CORRIDOR | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-2 | FF | 9'-6 3/8" | | |
| 102-4 | SUPPLIES | LVT-1 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-2 | FF | 9'-6 3/8" | | GN-1 |
| 102-5 | HEALTH | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 102-6 | STAFF WR | LVT-1 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 102-7 | MEETING | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-2 | FF | 9'-6" | | |
| 103 | ELEV. MACHINE | CSH | RB-1 | | CMU | PAINT | | EXP | PAINT | -- | | |
| 104 | UNIV. WR | PT-3 | PTB | | CMU<br>GWB | PAINT<br>PAINT, PWP | WN-2 | SAT-1 | FF | 9'-6" | | |
| 105 | KINDERGARTEN | LVT-1 | RB-1 | FN-3 | CMU<br>GWB | PAINT, PMT<br>PAINT | WN-1 | SAT-1 | FF | 9'-6" | | GN-1 |
| 105-1 | WR | LVT-1 | RB-1 | FN-3 | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1, GN-2 |
| 105-2 | CUBBIES | PT-3 | PTB | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 105-3 | VESTIBULE | PT-3 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-6" | | GN-1 |
| 106 | KINDERGARTEN | LVT-2 | RB-1 | FN-3 | CMU<br>GWB | PAINT, PMT<br>PAINT | WN-1 | SAT-1 | FF | 9'-6" | | GN-1 |
| 106-1 | WR | PT-4 | PTB | FN-3 | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1, GN-2 |
| 106-2 | CUBBIES | PT-4 | PTB | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 106-3 | VEST. | PT-4 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-6" | | GN-1 |
| 107 | KINDERGARTEN | LVT-3 | RB-1 | FN-3 | CMU<br>GWB | PAINT, PMT<br>PAINT | WN-1 | SAT-1 | FF | 9'-6" | | GN-1 |
| 107-1 | WR | LVT-3 | RB-1 | FN-3 | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1, GN-2 |
| 107-2 | CUBBIES | PT-5 | PTB | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 107-3 | VEST. | PT-5 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-6" | | GN-1 |
| 108 | KINDERGARTEN | LVT-1 | RB-1 | FN-3 | CMU<br>GWB | PAINT, PMT<br>PAINT | WN-1 | SAT-1 | FF | 9'-6" | | GN-1 |
| 108-1 | WR | LVT-1 | RB-1 | FN-3 | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1, GN-2 |
| 108-2 | CUBBIES | PT-3 | PTB | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 108-3 | VEST. | PT-3 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-6" | | GN-1 |
| 109 | KINDERGARTEN | LVT-3 | RB-1 | FN-3 | CMU<br>GWB | PAINT, PMT<br>PAINT | WN-1 | SAT-1 | FF | 9'-6" | | GN-1 |
| 109-1 | WR | LVT-3 | RB-1 | FN-3 | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1, GN-2 |
| 109-2 | CUBBIES | PT-5 | PTB | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 109-3 | VEST. | PT-5 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-6" | | GN-1 |
| 110 | CORRIDOR | LVT-1, LVT-2,<br>LVT-3 | RB-1 | FN-1 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 110-1 | VESTIBULE | PT-4 | PTB | | CMU<br>GWB | PAINT<br>PAINT | | GWB | PAINT | 9'-6" | | |
| 110-2 | OFFICE | LVT-2 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 110-3 | STORAGE | LVT-3 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 110-4 | LAUNDRY | LVT-3 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-5 | KITCHEN | LVT-1 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-6 | WR | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-7 | STAFF | LVT-1 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-8 | PRESCHOOL | LVT-1 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-9 | WR | LVT-2 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-10 | COATS | LVT-2 | RB-1 | | GWB | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-11 | VESTIBULE | PT-4 | PTB | | CMU<br>GWB | PAINT<br>PAINT | | GWB | PAINT | 9'-6" | | |
| 110-12 | COATS | LVT-3 | RB-1 | | GWB | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-13 | TODDLER | LVT-3 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-14 | INFANT | LVT-2 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-15 | SLEEP | LVT-2 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 110-16 | CHANGE | LVT-2 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 110-17 | VESTIBULE | PT-4 | PTB | | CMU<br>GWB | PAINT<br>PAINT | | GWB | PAINT | 9'-6" | | |
| 111 | MOVEMENT ROOM | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| 112 | JANITOR | EPF | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |

| ROOM | | FLOORS | | | WALLS | | | CEILING | | | | GENERAL REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO. | NAME | FINISH | BASE | FLOORING NOTES | MATERIAL | FINISH | WALL NOTES | MATERIAL | FINISH | HEIGHT | CEILING NOTES | |
| 113 | LRT | LVT-3 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| 114 | STAIR A | PT-4, PT-5, EPF | PTB | FN-1, FN-4 | CMU | PAINT | WN-3 | SAT-2<br>GWB | FF<br>PAINT | 9'-6"<br>VARIES | CN-1, CN-2 | GN-6 |
| 115 | CLASSROOM | LVT-2 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 116 | CLASSROOM | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 117 | CLASSROOM | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 118 | CLASSROOM | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 120 | STAIR B | PT-4, PT-5, EPF | PTB | FN-1, FN-4 | CMU | PAINT | WN-3 | SAT-1<br>GWB | FF<br>PAINT | 9'-6"<br>VARIES | CN-1, CN-2 | GN-6 |
| 121 | STOR. | LVT-2 | RB-1 | | CMU | PAINT | | GWB | PAINT | VARIES | | |
| 122 | SPECIAL NEEDS | LVT-2 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 122-1 | LEARNING | LVT-2 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 122-2 | MOVEMENT | LVT-2 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 122-3 | WR | LVT-2 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT, PWP | WN-2 | SAT-1 | FF | 9'-6" | | |
| 122-4 | SENSORY | LVT-2 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT, PWP | WN-2 | SAT-1 | FF | 9'-6" | | |
| 123 | SPECIAL NEEDS | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 123-1 | B.F. WR | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT, PWP | WN-2 | SAT-1 | FF | 9'-6" | | |
| 123-2 | SENSORY | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT, PWP | WN-2 | SAT-1 | FF | 9'-6" | | |
| 124 | CUSTODIAN OFFICE | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 125 | SPRINKLER | EPF | RB-1 | | CMU | PAINT | | EXP | PAINT | ± 12'-3" | | |
| 126 | ELECTRICAL | EPF | RB-1 | | CMU | PAINT | | EXP | PAINT | ± 12'-3" | | |
| 127 | STORAGE | CSH | -- | | CMU | PAINT | | EXP | PAINT | ± 12'-3" | | |
| 128 | COMMUNITY ROOM | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 128-1 | VESTIBULE | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 128-2 | KITCHEN | LVT-1 | RB-1 | FN-3 | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 128-3 | STORAGE | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | EXP | PAINT | ± 12'-3" | | |
| 128-4 | OFFICE | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 128-5 | OFFICE | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 128-6 | CORRIDOR | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 128-7 | WR | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 128-8 | WR | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 128-9 | WR | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |
| 128-10 | STORAGE | EPF | RB-1 | | CMU | PAINT | | EXP | PAINT | ± 12'-3" | | |
| 129 | RECYCLE | EPF | RB-1 | | CMU | PAINT | | EXP | PAINT | ± 12'-3" | | |
| 130 | JANITOR | EPF | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| 131 | GYMNASIUM | SHWF | VCB | FN-5 | CMU<br>AMU | PAINT<br>F.F. | | EXP | PAINT | -- | | GN-1, GN-4, GN-5 |
| 131-1 | STAIR | LVT-1, RT-1,<br>RT-2, RST-1 | RB-2 | FN-1 | CMU | PAINT | WN-3 | SAT-1<br>GWB | FF<br>PAINT | 11'-4"<br>10'-10 5/8" | CN-1 | |
| 131-2 | STAGE | RT-1, RT-2 | RB-2 | FN-1 | CMU | PAINT | WN-3 | EXP | PAINT | ± 23'-0" | | GN-1, GN-4 |
| 131-3 | GYM STORAGE | LVT-2 | RB-1 | | CMU | PAINT | | EXP | PAINT | ± 12'-3" | | |
| 131-4 | CHANGE | LVT-3 | RB-1 | | CMU | PAINT | WN-3 | EXP | PAINT | ± 12-3" | | GN-1, GN-3 |
| 131-5 | CHANGE | LVT-2 | RB-1 | | CMU | PAINT | WN-3 | EXP | PAINT | ± 12-3" | | GN-1, GN-3 |
| 131-6 | UNDER STAGE STORAGE | CHS | -- | -- | CMU | -- | -- | EXP | -- | -- | -- | -- |
| 132 | MULTI-FAITH | LVT-1 | RB-1 | | CMU<br>GWB | PAINT<br>PAINT | | SAT-1 | FF | 9'-6" | | |

FLOORING ABBREVIATIONS:
- CONC. — CONCRETE
- CSH — CONCRETE SEALER / HARDENER
- EPF — EPOXY PAINT FINISH
- LVT-# — LUXURY VINYL TILE # (AS PER SPECS)
- PT-# — PORCELAIN TILE # (AS PER SPECS)
- PTB — PORCELAIN TILE BASE
- RB-# — RUBBER BASE (AS PER SPECS)
- RST-# — RUBBER STEP TREADS # (AS PER SPECS)
- RT-# — RUBBER TILE # (AS PER SPECS)
- SHWF — SPRUNG HARDWOOD FLOOR
- VCB — VENT COVE (RUBBER) BASE AS PER HARDWOOD SPORTS FLOORING SUPPLIER
- WPFS — WATERPROOF FLOORING SYSTEM

FLOORING NOTES (FN):
- FN-1 MULTIPLE FLOORING FINISHES AND/OR MATERIALS AS PER FLOORING LAYOUT DRAWINGS
- FN-2 SPECIFIED BASE NOT REQUIRED AT SOME TILED WALL FINISHES (AS SHOWN ON INTERIOR ELEVATIONS)
- FN-3 RUBBER BASE REQUIRED ON BUILT-IN MILLWORK ITEMS (AS SHOWN ON INTERIOR ELEVATIONS
- FN-4 SPECIFIED BASE AT STAIR LANDINGS ONLY ABOVE AND BELOW STAIR FLIGHTS
- FN-5 PAINTED GAMELINE MARKINGS ON HARDWOOD SPORTS FLOORING AS PER A7-5

WALL ABBREVIATIONS:
- AWP — ACOUSTIC WALL PANEL (AS PER SPECS)
- AMU — ACOUSTIC MASONRY UNIT (AS PER SPECS)
- CMU — CONCRETE MASONRY UNIT
- CT-# — CERAMIC TILE # (AS PER SPECS)
- FF — FACTORY FINISH
- GWB — GYPSUM WALL BOARD (TYPES NOTED AS PER SPECS)
- PAINT — PAINT FINISH (AS PER SPECS)
- PMT — PROCELAIN MOSAIC TILE (AS PER SPECS)
- PT-# — PORCELAIN TILE #. (AS PER SPECS)
- PWP — PROTECTIVE WALL PANELS (AS PER SPECS)

WALL NOTES (WN):
- WN-1 MULTIPLE WALL FINISHES AND/OR MATERIALS AS PER INTERIOR ELEVATIONS
- WN-2 PROTECTIVE WALL PANELS (AS PER SPECIFICATIONS) ON GWB WALLS UP TO 4'-4" A.F.F.)
- WN-3 MISC. METAL SUPPORT BRACKETS, HANDRAILS, BALUSTRADES, METAL STRINGERS, RISERS, GUARDS, METAL STAIR COMPONENTS, METAL RAMP COMPONENTS ETC. TO BE PAINTED

CEILING ABBREVIATIONS:
- EXP — EXPOSED OVERHEAD METAL DECK,, STRUCTURAL STEEL, HVAC DUCTS & RELATED CEILING MOUNTED ITEMS
- FF — FACTORY FINISH
- GWB — GYPSUM WALL BOARD (TYPES NOTED AS PER SPEC'S)
- SAC-# — SUSPENDING ACOUSTIC TILE CLOUD (AS PER SPEC'S)
- SAT-# — SUSPENDED ACOUSTIC TILE CEILING # (AS PER SPECS)
- VARIES — VARIOUS HEIGHTS AS SHOWN THROUGHOUT ARCHITECTURAL DRAWINGS

CEILING NOTES (CN):
- CN-1 MULTIPLE CEILING MATERIALS / FINISHES AS PER REFLECTED CEILING PLAN
- CN-2 UNDERSIDE OF STAIRS TO BE PAINTED INCLUDING GWB AND ALL EXPOSED UNFINISHED MATERIALS

GENERAL NOTES (GN):
- GN-1 MILLWORK AS PER INTERIOR ELEVATIONS DRAWINGS
- GN-2 TOILET COMPARTMENTS, URINAL SCREENS ETC. (AS PER SPECS)
- GN-3 CHANGEROOM BENCHES & SHELVES (MILLWORK AS PER C8/A9-3
- GN-4 HARDWOOD NOSING AT STAGE FRONT AS PER 58/A5-4
- GN-5 PAINTED GAMELINE MARKINGS ON HARDWOOD SPORTS FLOOR AS PER A7-5 TO A7-7
- GN-6 EPOXY PAINT FINISH ON PRECAST STAIRS AND LANDINGS INCULDES ALL EXPOSED SURFACES.

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1. Issued for Permit Feb. 13/26
2. Issued for Tender Feb. 24/26

PROJECT:

Proposed New:

**Elementary School**

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857

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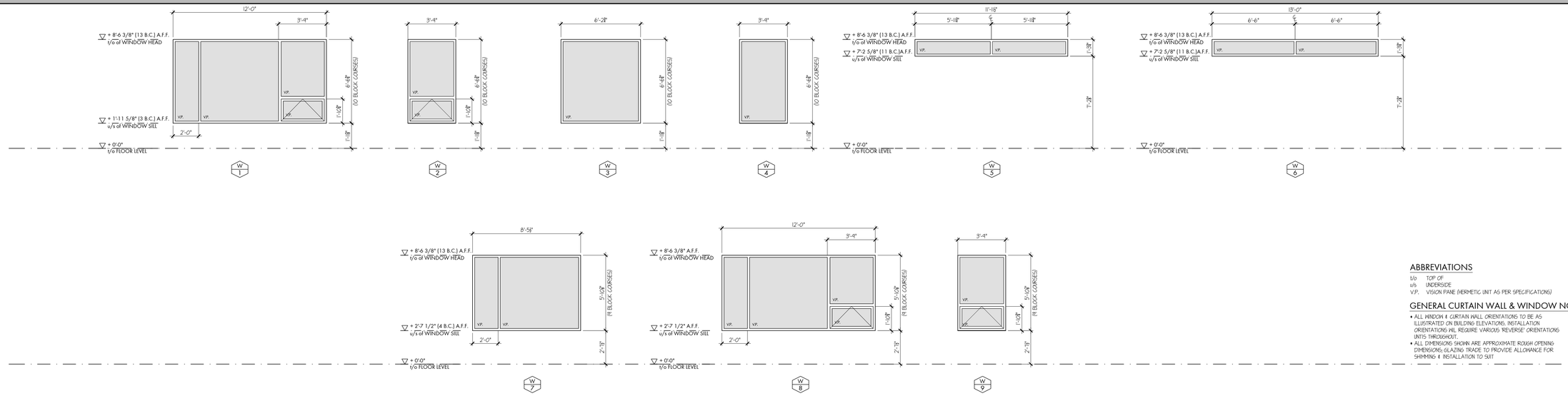
www@whitelinearchitects.com

DRAWING TITLE:
Room Finish Schedule - First Floor

SCALE: As Noted
DRAWN: SB
DATE: March 2025
PROJECT #: 2501
DRAWING #: SC-5

PLOTTED 3/31/2026 2:59 PM

# EXTERIOR ALUMINUM WINDOWS



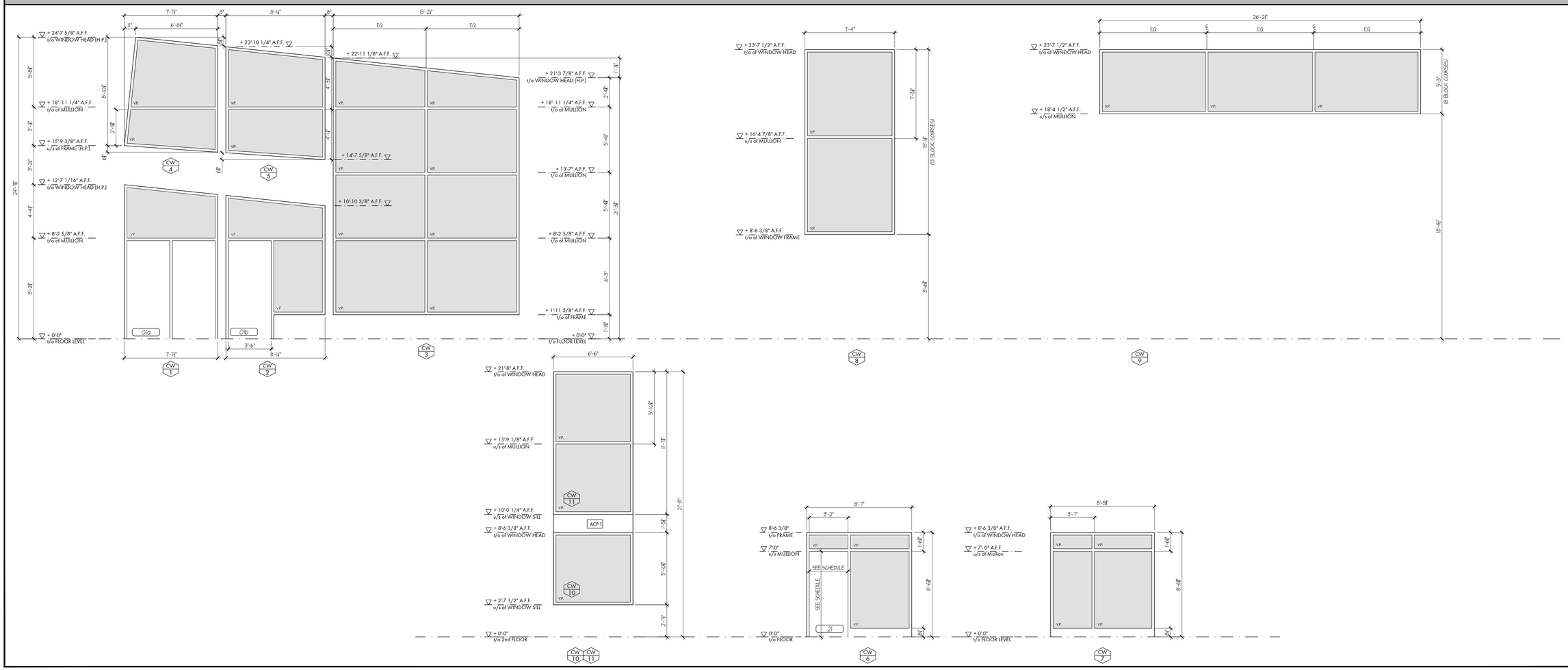

## ABBREVIATIONS

t/o TOP OF
u/s UNDERSIDE
V.P. VISION PANE (HERMETIC UNIT AS PER SPECIFICATIONS)

## GENERAL CURTAIN WALL & WINDOW NOTES

- ALL WINDOW & CURTAIN WALL ORIENTATIONS TO BE AS ILLUSTRATED ON BUILDING ELEVATIONS. INSTALLATION ORIENTATIONS WIL REQUIRE VARIOUS "REVERSE" ORIENTATIONS UNTIS THROUGHOUT.
- ALL DIMENSIONS SHOWN ARE APPROXIMATE ROUGH OPENING DIMENSIONS; GLAZING TRADE TO PROVIDE ALLOWANCE FOR SHIMMING & INSTALLATION TO SUIT

# EXTERIOR CURTAIN WALL





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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

**Elementary School**

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857


WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J3
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Window Frame Types**

SCALE: As Noted
DRAWN: DWG
DATE: March 2025
PROJECT #: 2501
DRAWING #: SC-4

PLOTTED 3/31/2026 2:57 PM

# ROOM FINISH SCHEDULE - SECOND FLOOR

| ROOM | | FLOORS | | | WALLS | | | CEILING | | | | GENERAL REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO. | NAME | FINISH | BASE | FLOORING NOTES | MATERIAL | FINISH | WALL NOTES | MATERIAL | FINISH | HEIGHT | CEILING NOTES | |
| 200 | CORRIDOR | PT-3, PT-4, PT-5 | PTB | FN-1 | CMU | PAINT, CT-2b, CT-3b, PT-2, PMT, MNP-1 | WN-1 | SAT-1 | FF | 9'-0" | CN-1 | GN-1 |
| | | | | | | | | GWB | PAINT | 7'-9" - 8'-6 3/4" | | |
| 201 | STAIR A | EPF | RB-1 | FN-1, FN-4 | CMU | PAINT | | SAT-1 | FF | 11'-0" | CN-1, CN-2 | GN-6 |
| | | | | | | | | GWB | PAINT | VARIES | | |
| 202 | CLASSROOM | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 203 | CLASSROOM | LVT-3 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 204 | BF WR | PT-5 | PTB | | CMU | PAINT, PT-2 | WN-1, WN-3 | SAT-1 | FF | 9'-6" | | |
| 205 | GIRLS WR | PT-5 | PTB | | CMU | PAINT, PT-2 | WN-1, WN-3 | GWB | PAINT | 9'-0" | | GN-1, GN-2 |
| 206 | BOYS WR | PT-4 | PTB | | CMU | PAINT | | GWB | PAINT | 9'-0" | | GN-1, GN-2 |
| 207 | LRT | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 208 | LRT | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 209 | STAFF ROOM | LVT-1 | RB-1 | | CMU | PAINT, CT-2a | WN-1 | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT, CT-2a | | | | | | |
| 209-1 | STAFF WORK ROOM | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| 209-2 | STAFF WR. | LVT-1 | RB-1 | | CMU | PAINT | WN-1 | SAT-1 | FF | 9'-0" | | |
| | | | | | GWB | PAINT, PT-2 | | | | | | |
| 209-3 | STAFF WR. | LVT-1 | RB-1 | | CMU | PAINT | WN-1 | SAT-1 | FF | 9'-0" | | |
| | | | | | GWB | PAINT, PT-2 | | | | | | |
| 209-4 | STAFF WR. | LVT-1 | RB-1 | | CMU | PAINT | WN-1 | SAT-1 | FF | 9'-0" | | |
| | | | | | GWB | PAINT, PT-2 | | | | | | |
| 210 | STAIR B | EPF | RB-1 | FN-1, FN-4 | CMU | PAINT | WN-3 | SAT-1 | FF | 11'-0" | CN-1, CN-2 | GN-6 |
| | | | | | | | | GWB | PAINT | VARIES | | |
| 211 | SERVICE ROOM | WPF5 | RB-1 | | CMU | PAINT | | EXP | PAINT | ± 12'-3" | | |
| 212 | LEARNING COMMONS | LVT-1, LVT-2, LVT-3 | RB-1 | FN-1 | CMU | PAINT, PMT | WN-1 | SAT-2 | FF | 9'-6" | | GN-1 |
| 212-1 | LIBRARY WORK ROOM | LVT-2 | RB-1 | | CMU | PAINT | | SAT-2 | FF | 8'-6" | | |
| 212-2 | STAIR | LVT-3 | RB-1 | | CMU | PAINT | WN-3 | SAT-1 | FF | 9'-6" | | |
| | | | | | GWB | PAINT | | | | | | |
| 213 | JANITOR | EPF | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| 214 | STORAGE | EPF | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| 217 | CLASSROOM | LVT-2 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 218 | CLASSROOM | LVT-2 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 219 | CLASSROOM | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 220 | CLASSROOM | LVT-2 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |

FLOORING ABBREVIATIONS:
- CONC. CONCRETE
- CSH CONCRETE SEALER / HARDENER
- EPF EPOXY PAINT FINISH
- LVT-# LUXURY VINYL TILE # (AS PER SPECS)
- PT-# PORCELAIN TILE # (AS PER SPECS)
- PTB PORCELAIN TILE BASE
- RB-# RUBBER BASE (AS PER SPECS)
- RST-# RUBBER STEP TREADS # (AS PER SPECS)
- RT-# RUBBER TILE # (AS PER SPECS)
- SHWF SPRING HARDWOOD FLOOR
- VCB VENT COVE (RUBBER) BASE AS PER HARDWOOD SPORTS FLOORING SUPPLIER
- WPF5 WATERPROOF FLOORING SYSTEM

FLOORING NOTES (FN):
- FN-1 MULTIPLE FLOORING FINISHES AND/OR MATERIALS AS PER FLOORING LAYOUT DRAWINGS
- FN-2 SPECIFIED BASE NOT REQUIRED AT SOME TILED WALL FINISHES (AS SHOWN ON INTERIOR ELEVATIONS)
- FN-3 RUBBER BASE REQUIRED ON BUILT-IN MILLWORK ITEMS (AS SHOWN ON INTERIOR ELEVATIONS
- FN-4 SPECIFIED BASE AT STAIR LANDINGS ONLY ABOVE AND BELOW STAIR FLIGHTS
- FN-5 PAINTED GAMELINE MARKINGS ON HARDWOOD SPORTS FLOORING AS PER A7-5

WALL ABBREVIATIONS:
- AWP ACOUSTIC WALL PANEL (AS PER SPECS)
- AMU ACOUSTIC MASONRY UNIT (AS PER SPECS)
- CMU CONCRETE MASONRY UNIT
- CT-# CERAMIC TILE # (AS PER SPECS)
- FF FACTORY FINISH
- GWB GYPSUM WALL BOARD (TYPES NOTED AS PER SPECS)
- PAINT PAINT FINISH (AS PER SPECS)
- PMT PROCELAIN MOSAIC TILE (AS PER SPECS)
- PT-# PORCELAIN TILE #, (AS PER SPECS)
- PWP PROTECTIVE WALL PANELS (AS PER SPECS)

WALL NOTES (WN):
- WN-1 MULTIPLE WALL FINISHES AND/OR MATERIALS AS PER INTERIOR ELEVATIONS
- WN-2 PROTECTIVE WALL PANELS (AS PER SPECIFICATIONS) ON GWB WALLS UP TO 4'-4" A.F.F.)
- WN-3 MISC. METAL SUPPORT BRACKETS, HANDRAILS, BALUSTRADES, METAL STRINGERS, RISERS, GUARDS, METAL STAIR COMPONENTS, METAL RAMP COMPONENTS ETC. TO BE PAINTED

CEILING ABBREVIATIONS:
- EXP EXPOSED OVERHEAD METAL DECK, STRUCTURAL STEEL, HVAC DUCTS & RELATED CEILING MOUNTED ITEMS
- FF FACTORY FINISH
- GWB GYPSUM WALL BOARD (TYPES NOTED AS PER SPEC'S)
- SAC-# SUSPENDING ACOUSTIC TILE CLOUD (AS PER SPEC'S)
- SAT-# SUSPENDED ACOUSTIC TILE CEILING # (AS PER SPECS)
- VARIES VARIOUS HEIGHTS AS SHOWN THROUGHOUT ARCHITECTURAL DRAWINGS

CEILING NOTES (CN):
- CN-1 MULTIPLE CEILING MATERIALS / FINISHES AS PER REFLECTED CEILING PLAN
- CN-2 UNDERSIDE OF STAIRS TO BE PAINTED INCLUDING GWB AND ALL EXPOSED UNFINISHED MATERIALS

GENERAL NOTES (GN):
- GN-1 MILLWORK AS PER INTERIOR ELEVATIONS DRAWINGS
- GN-2 TOILET COMPARTMENTS, URINAL SCREENS ETC. (AS PER SPECS)
- GN-3 CHANGEROOM BENCHES & SHELVES (MILLWORK AS PER C8/A4-3
- GN-4 HARDWOOD NOSING AT STAGE FRONT AS PER 5B/A5-4
- GN-5 PAINTED GAMELINE MARKINGS ON HARDWOOD SPORTS FLOOR AS PER A1-5 TO A1-7
- GN-6 EPOXY PAINT FINISH ON PRECAST STAIRS AND LANDINGS INCLUDES ALL EXPOSED SURFACES.

GENERAL NOTES:
1. ROOM FINISH SCHEDULE IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS & SPECIFICATIONS TO PROVIDE A COMPLETE UNDERSTANDING OF PROJECT REQUIREMENTS. IN NO WAY IS THE REQUIRED SCOPE OF WORK LIMITED TO OR FULLY COVERED BY THIS ROOM FINISH SCHEDULE.
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# ROOM FINISH SCHEDULE - THIRD FLOOR

| ROOM | | FLOORS | | | WALLS | | | CEILING | | | | GENERAL REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO. | NAME | FINISH | BASE | FLOORING NOTES | MATERIAL | FINISH | WALL NOTES | MATERIAL | FINISH | HEIGHT | CEILING NOTES | |
| 300 | CORRIDOR | PT-3, PT-4, PT-5 | PTB | FN-1 | CMU | PAINT PT-2, PMT | WN-4 | SAT-1 | FF | 9'-0" | CN-1 | |
| | | | | | | | | GWB | PAINT | 7'-9" | | |
| 301 | STAIR A | EPF | RB-1 | FN-1, FN-4 | CMU | PAINT | | SAT-1 | FF | 9'-6" | CN-1, CN-2 | GN-6 |
| 302 | CLASSROOM | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 303 | CLASSROOM | LVT-3 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 304 | BF WR | PT-5 | PTB | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| 305 | GIRLS WR | PT-5 | PTB | | CMU | PAINT, PT-2 | WN-1, WN-3 | GWB | PAINT | 9'-0" | | GN-1, GN-2 |
| 306 | BOYS WR | PT-4 | PTB | | CMU | PAINT, PT-2 | WN-1, WN-3 | GWB | PAINT | 9'-0" | | GN-1, GN-2 |
| 307 | CLASSROOM | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 308 | CLASSROOM | LVT-3 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 309 | STAFF WORK RM. | LVT-3 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 309-1 | WR | LVT-3 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| | | | | | GWB | PAINT | | | | | | |
| 310 | STAIR B | EPF | RB-1 | FN-1, FN-4 | CMU | PAINT | WN-3 | SAT-1 | FF | 9'-6" | CN-1, CN-2 | GN-6 |
| 311 | SERVICE ROOM | WPF5 | RB-1 | | CMU | PAINT | | EXP | PAINT | ± 12'-3" | | |
| 313 | JANITOR | EPF | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| 314 | STORAGE | EPF | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | |
| 315 | CLASSROOM | LVT-3 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 316 | CLASSROOM | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 317 | CLASSROOM | LVT-2 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 318 | CLASSROOM | LVT-2 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 319 | CLASSROOM | LVT-1 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |
| 320 | CLASSROOM | LVT-2 | RB-1 | | CMU | PAINT | | SAT-1 | FF | 9'-6" | | GN-1 |
| | | | | | GWB | PAINT | | | | | | |

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| | | |
|---|---|---|
| 1. | Issued for Permit | Feb. 13/26 |
| 2. | Issued for Tender | Feb. 24/26 |

PROJECT:

**Proposed New:**

**Elementary School**

415 Eastbridge Avenue
Welland, ON

For the DSBN

SEAL:

ONTARIO ASSOCIATION OF ARCHITECTS
KEVIN MARK EMRICH
LICENCE
8857


WHITELINE | Architects Inc.
83 ONTARIO STREET
ST. CATHARINES
ONTARIO L2R 5J5
905-688-6087
www@whitelinearchitects.com


DRAWING TITLE:

**Room Finish Schedule - Second & Third Floors**

SCALE: As Noted

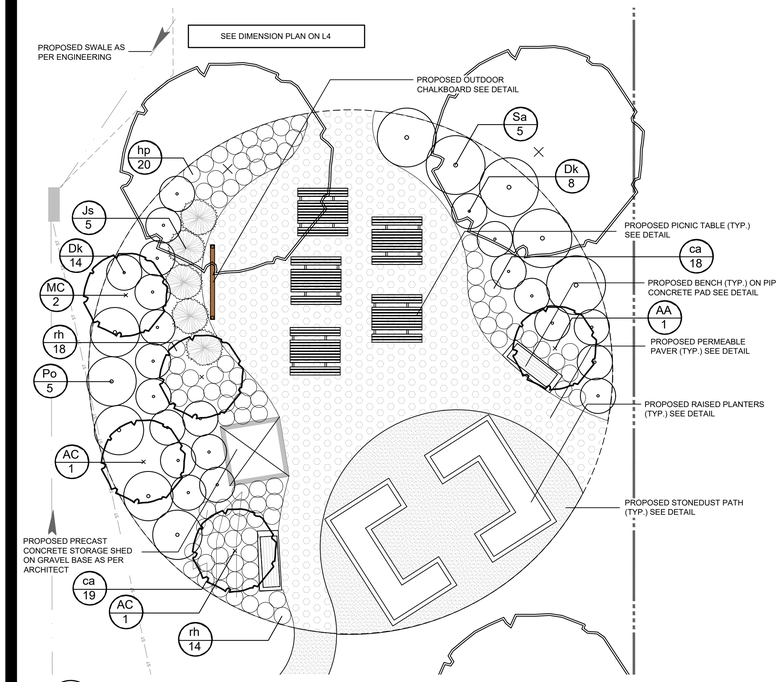
DRAWN: SB

DATE: March 2025

PROJECT #: 2501

DRAWING #: SC-6

PLOTTED 3/31/2026 3:00 PM




1 NATURALIZED PLAY AREA ENLARGEMENT

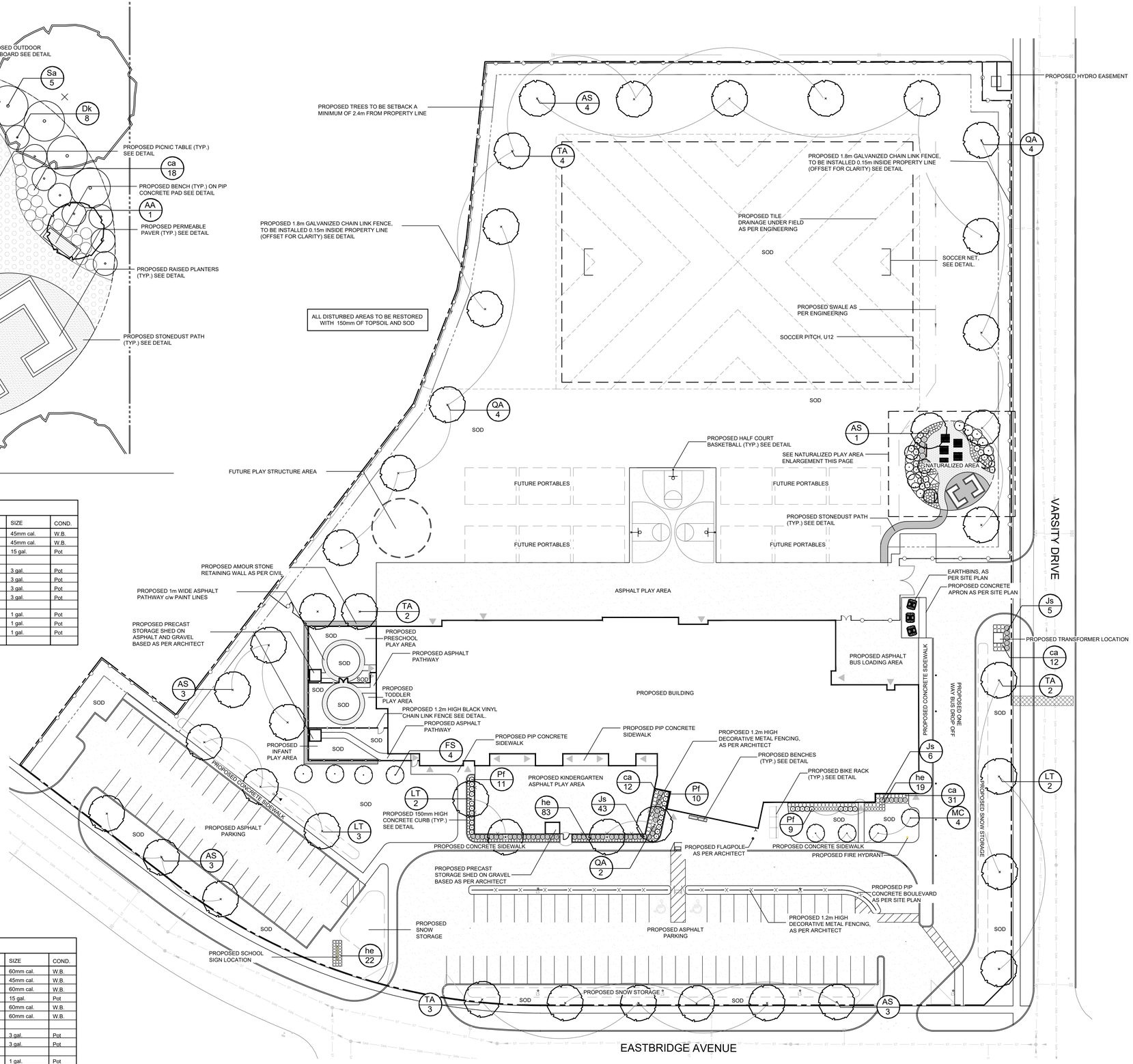
1:100

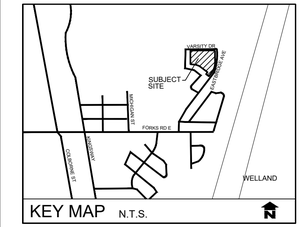
| NATURALIZED PLANT MATERIAL LIST | | | | | |
|---|---|---|---|---|---|
| KEY | QUANT. | BOTANICAL NAME | COMMON NAME | SIZE | COND. |
| AA | 1 | Acer saccharum Apollo | Apollo Sugar Maple | 45mm cal. | W.B. |
| AC | 2 | Amelanchier canadensis | Serviceberry | 45mm cal. | W.B. |
| MC | 2 | Magnolia x 'Cameo' | Cameo Magnolia | 15 gal. | Pot |
| | | | | | |
| Dk | 22 | Diervilla lonicera | Bush Honeysuckle | 3 gal. | Pot |
| Js | 5 | Juniperus sabina | Savin Juniper | 3 gal. | Pot |
| Po | 5 | Physocarpus opulifolius | Common Ninebark | 3 gal. | Pot |
| Sa | 5 | Sambucus canadensis | Common Elderberry | 3 gal. | Pot |
| | | | | | |
| ca | 37 | Calamagrostis acutiflora 'Karl Foerster' | Feather Reed Grass | 1 gal. | Pot |
| hp | 20 | Hystrix patula | Bottlebrush Grass | 1 gal. | Pot |
| rh | 32 | rudbeckia hirta | Gloriosa Dasiy | 1 gal. | Pot |
| | | | | | |

## LEGEND

PROPOSED TREE

| PLANT MATERIAL LIST | | | | | |
|---|---|---|---|---|---|
| KEY | QUANT. | BOTANICAL NAME | COMMON NAME | SIZE | COND. |
| AS | 14 | Acer saccharum | Sugar Maple | 60mm cal. | W.B. |
| FS | 4 | Fagus sylvatica 'Red Obelisk' | Red Obelisk Beech | 45mm cal. | W.B. |
| LT | 7 | Liriodendron tulipifera | Tulip Tree | 60mm cal. | W.B. |
| MC | 4 | Magnolia x 'Cameo' | Cameo Magnolia | 15 gal. | Pot |
| QA | 10 | Quercus alba | White Oak | 60mm cal. | W.B. |
| TA | 11 | Tilia americana | Basswood | 60mm cal. | W.B. |
| | | | | | |
| Js | 54 | Juniperus sabina | Savin Juniper | 3 gal. | Pot |
| Pf | 30 | Potentilla fruticosa ' Primrose Beauty' | Primrose Beatuy Cinquefoil | 3 gal. | Pot |
| | | | | | |
| ca | 55 | Calamagrostis acutiflora 'Karl Foerster' | Feather Reed Grass | 1 gal. | Pot |
| he | 124 | Hemerocallis 'Little Wine Cup' | Little Wine Cup Daylily | 1 gal. | Pot |
| | | | | | |




## GENERAL NOTES

1. ALL WORKMANSHIP WILL BE TO THE STANDARDS OF LANDSCAPE ONTARIO.

2. ALL PLANT MATERIAL TO BE NO.1 GRADE NURSERY GROWN IN ACCORDANCE WITH THE CANADIAN STANDARDS FOR NURSERY STOCK, 9TH EDITION, 2017, BY THE CANADIAN NURSERY TRADES ASSOCIATION.

3. BACKFILL WILL CONSIST OF SOIL NATIVE TO THE SITE OR GENERAL SOIL TYPE/CLASS NATIVE TO THE SITE. TOPSOIL TO BE TESTED FOR NUTRIENT VALUE, AND AMENDED FOR OPTIMAL GROWTH AS PER THE RECOMMENDATIONS OF THE SOIL TEST.

4. CONTRACTOR SHALL MAINTAIN ALL LANDSCAPE AREAS UNTIL OWNER'S ACCEPTANCE OF PROJECT.

5. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES.

6. PLANTING MAY BE ADJUSTED TO SUIT LOCATIONS OF SITE UTILITY STRUCTURES/SERVICES.

7. ALL MATERIALS MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

8. SPREAD MULCH TO A MINIMUM OF 100mm COMPACTED DEPTH ON ALL TREE PITS AND PLANTING BEDS.

9. CHECK AND VERIFY ALL DIMENSIONS AND QUANTITIES PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES ARE TO BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT. QUANTITIES NOTED WITHIN THE PLAN SUPERCEDE THOSE IN THE PLANT LIST. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.

10. SOD AS MARKED WITH NURSERY SOD ON A MINIMUM OF 100mm OF CLEAN TOPSOIL. FINE GRADE AND SOD ALL BOULEVARD AREAS TO MUNICIPAL SPECIFICATIONS AND REPAIR DAMAGE TO ADJACENT PROPERTIES, AS REQUIRED.

11. FINAL INSPECTION AND ACCEPTANCE OF PLANTING WORK SHALL COINCIDE WITH THE FINAL INSPECTION AND ACCEPTANCE OF ALL WORK INCLUDED IN THE CONTRACT.

12. ALL SEEDED SLOPES 3:1 AND GREATER TO RECEIVE EROSION CONTROL MATTING. PIN SOD ON ALL SLOPES OF 3:1 OR GREATER.

13. SUBMIT A WRITTEN GUARANTEE TO THE EFFECT THAT ALL PLANTS ACCEPTED DURING THE PERIOD OF JANUARY 1st TO JULY 15th SHALL BE GUARANTEED UNTIL JULY 15th THE FOLLOWING YEAR. PLANTS ACCEPTED DURING THE PERIOD OF JULY 15th TO DECEMBER 31st SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE. THE GUARANTEE PERIODS LISTED ABOVE SHALL APPLY TO ALL "NURSERY GROWN" PLANTS.

14. AT THE TIME OF FINAL INSPECTION ALL PLANTS SHALL BE IN A HEALTHY, VIGOUROUS GROWING CONDITION, PLANTED IN FULL ACCORDANCE WITH DRAWINGS AND CONDITIONS.

15. SITE PLAN INFORMATION AS PER WHITELINE ARCHITECTS INC.

16. ENGINEERING AS PER HALLEX CIVIL ENGINEERING LTD, AND IS PROVIDED FOR INFORMATION ONLY.

17. SITE LIGHTING BY OTHERS

REVISIONS

| no. | date | description | by |
|---|---|---|---|
| 1. | Sep.23.25 | Issued for Approval | EH |
| 2. | Nov.17.25 | Issued as per Comments | EH |
| 3. | Feb.20.26 | Issued for Tender | EH |

DSBN Elementary School
415 Eastbridge Avenue
Welland ON

# Landscape Plan

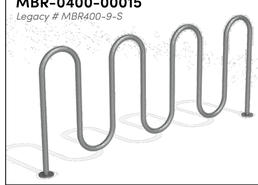
Hill Design Studio INC
226-686-0700 www.hilldesign.ca

| | |
|---|---|
| PROJECT NO.: 2025-59 | DRAWN BY: EH |
| SCALE: 1:400 | DESIGNED BY: EH |
| SHEET: L1 | APPROVED BY: AWH |
| | PLOT DATE: Feb. 20, 2025 |

## 400 SERIES

**MBR-0400-00015**

*Legacy # MBR400-9-S*



### Sustainability Facts

| Unit Size | One (1) 400 Bike Rack | |
|---|---|---|
| | MIN. | MAX. |
| Carbon footprint (GWP) *Measured in kilograms of carbon dioxide equivalent* | 128 | 228 Kg CO2-Eq |
| Total energy use (TPE) *Measured in megajoules of energy equivalent* | 2280 | 4390 MJ-Eq |
| Waster use (WDP) *Measured in cubic metres of water* | 1.06 | 2 m3 water |
| Material recyclability | 100% | |

**LEED v4.1 Credits**

| | |
|---|---|
| Type III Environmental Product Declaration | |
| Material Inventory | |
| Low VOC finishes | |
| Free of Red List substances | |

**Full EPD can be referenced for more information: https://www.epdregistration.com/maglin/*

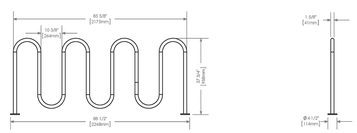
DESCRIPTION: 400 Series - 400 Bike Rack: H.S. Steel Tube, Surface Mount, 9 Bike Configuration

FINISH: All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.

INSTALLATION: The bike racks are delivered pre-assembled. It is available with a surface mount installation.

TO SPECIFY: Select MBE-0400-00015
Choose:
- Powdercoat Color

HEIGHT: 37.75" (95.8cm) LENGTH: 85.63" (217.5cm) DEPTH: 1.63" (4.1cm) WEIGHT: 45.86 lbs (20.8kg)




MAGLIN Site Furniture

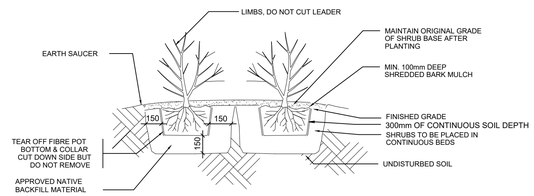
T 800.716.5506
F 877.260.9393
www.maglin.com
sales@maglin.com

- All drawings, specifications, design and details on this page remain the property of Maglin Site Furniture Inc. and may not be used without Maglin authorization.
- Details and specifications may vary due to continuing improvements of our products.

BIKE RACK BY MAGLIN
(OR APPROVED EQUAL)
T 1-800-716-5506
F 1-877-260-9393
WWW.MAGLIN.COM
SALES@MAGLIN.COM

SPECIFICATIONS:
MODEL: MBR-0400-00015
FINISH: BLACK POWDER COAT
OPTIONS: NONE
INSTALLATION: SURFACE MOUNT

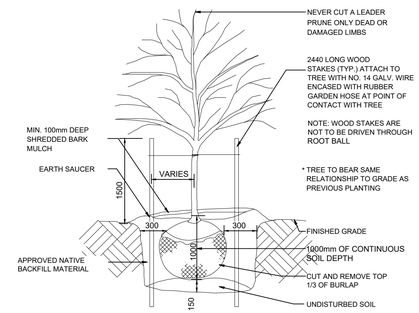
2 BIKE RACK DETAIL
NTS




3 SHRUB PLANTING DETAIL
NTS

TREEGATOR:

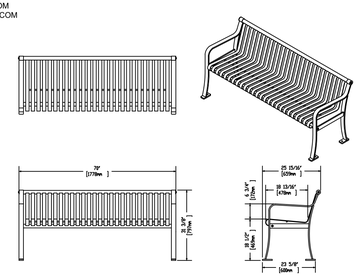
INSTALL TREEGATOR ORIGINAL SLOW RELEASE WATERING BAG ON ALL CALIPER DECIDUOUS TREES. SEE MANUFACTURERS DETAIL FOR SPECIFICATIONS AND DIRECTIONS.




4 DECIDUOUS TREE PLANTING DETAIL
NTS

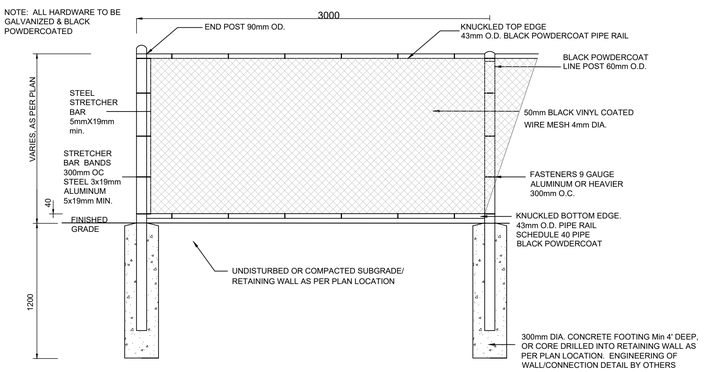
BENCH BY MAGLIN
(OR APPROVED EQUAL)
T 1-800-716-5506
F 1-877-260-9393
WWW.MAGLIN.COM
SALES@MAGLIN.COM

SPECIFICATIONS:
MODEL: MBE-0510-00010
POWDER COAT COLOUR: BLACK
INSTALLATION: SURFACE MOUNT AS PER MANUFACTURER'S SPECIFICATIONS

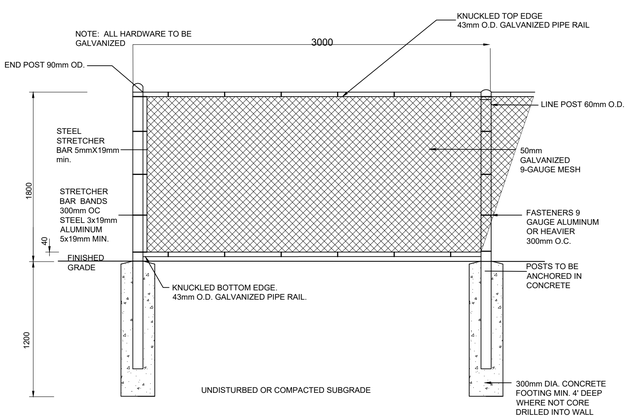



5 BENCH DETAIL
NTS

NOTE: ALL HARDWARE TO BE GALVANIZED & BLACK POWDERCOATED



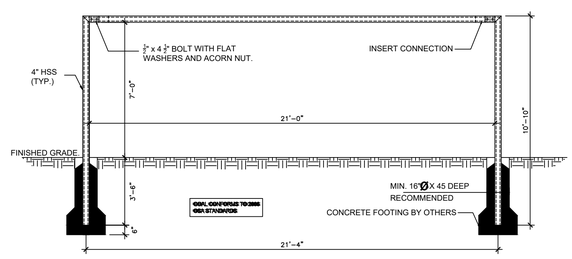

6 BLACK VINYL CHAIN LINK FENCE DETAIL
NTS



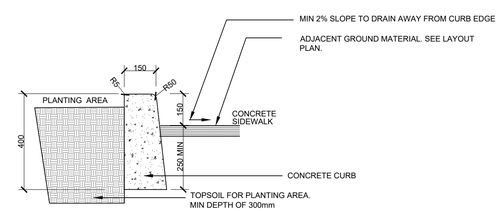

7 TYPICAL HIGH GALVANIZED CHAIN LINK FENCE DETAIL
NTS

TO BE SPECIFIED AS PER MAIN GYM EQUIPMENT SPEC

NOTE
BURRY TOP OF CONCRETE FOOTINGS 0.25m BELOW FINISHED GRADE.




8 TYPICAL SOCCER NET DETAIL
NTS




NOTES:
1. CONCRETE BARRIER CURB AS PER OPSD 600.110
2. THIS DETAIL IS TO BE USED IN CONJUNCTION WITH SPECIFICATION SECTIONS: 02630 - POURED IN PLACE CONCRETE PAVING

9 CONCRETE CURB DETAIL
NTS

REVISIONS

| no. | date | description | by |
|---|---|---|---|
| 1. | Sep.23.25 | Issued for Approval | EH |
| 2. | Nov.17.25 | Issued as per Comments | EH |
| 3. | Feb.20.26 | Issued for Tender | EH |

DSBN Elementary School
415 Eastbridge Avenue
Welland ON

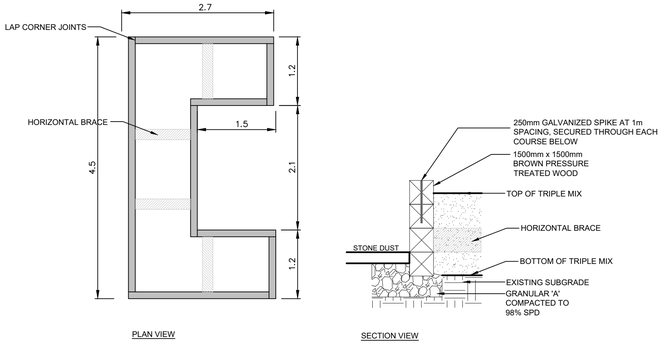
Landscape Details

Hill Design Studio INC
226-686-0700 www.hilldesign.ca

| | |
|---|---|
| PROJECT NO.: 2025-59 | DRAWN BY: EH |
| SCALE: AS NOTED | DESIGNED BY: EH |
| SHEET: L2 | APPROVED BY: AWH |
| | PLOT DATE: Feb. 20, 2025 |

NOTES:

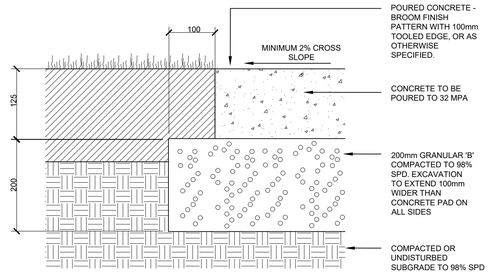
1. INTERNAL DIMENSIONS OF PLANTER: 0.9m WIDE x 0.45m HIGH
2. SECURE TIMBERS TO COURSE BELOW WITH 250mm GALVANIZED SPIKES, 1m SPACING.
3. NO PROTRUDING METAL OR WOOD SPLINTERS ON TOP COURSE.
4. OVERLAP TIMBERS ON CORNERS AND OFFSET JOINTS BY HALF THE TIMBER LENGTH.



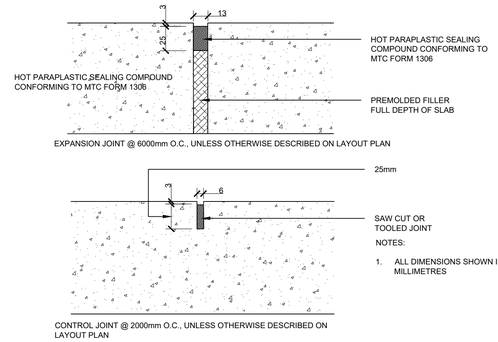

10 TIMBER RAISED PLANTER DETAIL
NTS

NOTES:

1. REFER TO DETAIL: CONCRETE JOINTS




11 PIP CONCRETE PAD DETAIL
NTS




NOTES:

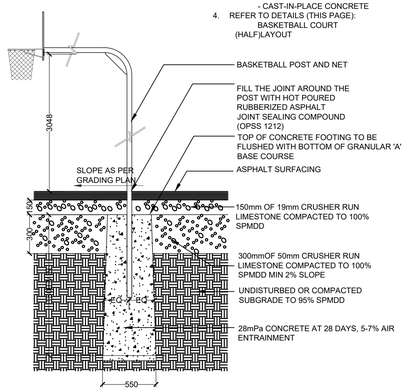
1. ALL DIMENSIONS SHOWN IN MILLIMETRES

12 CONCRETE JOINT DETAILS
NTS

TO BE SPECIFIED AS PER MAIN GYM EQUIPMENT SPEC

NOTES:

1. DO NOT PLACE TOPSOIL TO EDGE OF ASPHALT FOR A PERIOD OF 48 HOURS
2. EDGE TREATMENT OF ASPHALT TO BE WELL TAMPED @ 45° ANGLE WITH A UNIFORMLY STRAIGHT EDGE.
3. THIS DETAIL IS TO BE USED IN CONJUNCTION WITH SPECIFICATION SECTIONS:
   - ASPHALT PAVING
   - CAST-IN-PLACE CONCRETE
4. REFER TO DETAILS (THIS PAGE): BASKETBALL COURT (HALF)LAYOUT

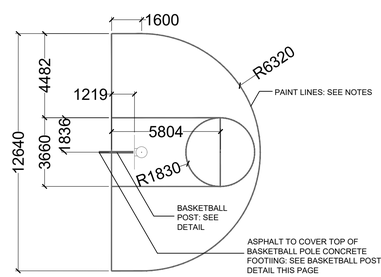



13 TYPICAL BASKETBALL NET AND POST DETAIL
NTS

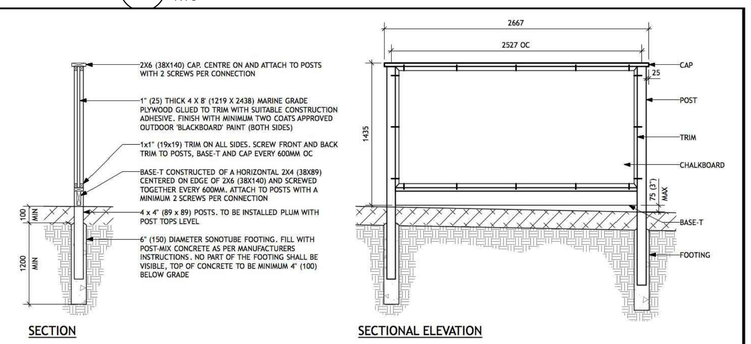
NOTES:

1. PAINT LINES: COURT DIMENSIONS TO MATCH NCAA STANDARDS. ALL PAINTED LINES ARE TO BE WHITE 50mm (2") THICK MIN 2 COATS OF GOOD QUALITY PAINT

DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED




14 BASKETBALL COURT (HALF) LAYOUT
NTS

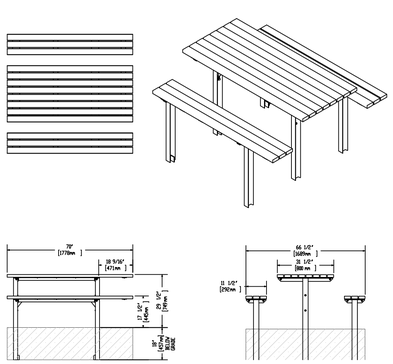



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS. DO NOT SCALE DRAWING.
2. ALL BOLTS, NAILS, SCREWS AND OTHER FASTENERS TO BE GALVANIZED. SIZE APPROPRIATELY AND COUNTERSINK AT SURFACE. FILL ALL SCREW HOLES WITH EXTERIOR GRADE WOOD FILLER
3. ALL WOOD TO BE EASTERN WHITE CEDAR, UNLESS SPECIFIED OTHERWISE. FREE FROM WARPS, CHECKS, CRACKS AND SPLINTERS
4. WOOD FINISHES TO BE SPECIFIED BY SCHOOL EITHER PROTECTIVE STAIN OR PAINT. CONFIRM COLOUR SELECTIONS AND FINISH PRIOR TO PURCHASING.
5. ALL CUT EDGES AND EXPOSED CORNERS TO BE SANDED SMOOTH TO ELIMINATE SPLINTERS AND SHARP POINTS
6. CHALK PANEL TO BE INSTALLED LEVEL AND SQUARE. ADJUST DIMENSIONS AS NEEDED BASED ON LAYOUT PLANS TO PROVIDE MINIMUM CLEARANCES
7. CHALK PANEL CONSTRUCTION TO BE TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE.

OUTDOOR CHALK BOARD SUPPLIED BY NATURE'S INSTRUMENTS
(1-877-733-7456) OR APPROVED EQUAL.
MODEL NO. NI-PG-301-01
INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS

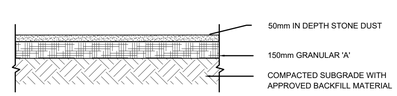
15 CHALK BOARD ON POSTS
NTS




PICNIC TABLE BY MAGLIN
(OR APPROVED EQUAL)
T 1-800-716-5506
F 1-877-260-9393
WWW.MAGLIN.COM
SALES@MAGLIN.COM

SPECIFICATIONS:
MODEL: MTB- 0210-00003
MATERIAL:WOOD GRAIN TEXTURE (GREY) HIGH DENSITY POLYETHYLENE TABLE TOP AND BACKLESS BENCH
OPTIONS: DIRECT BURIAL, WHEELCHAIR ACCESSIBLE INSTALLATION AS PER MANUFACTURER'S SPECIFICATIONS

16 MAGLIN ACCESSIBLE PICNIC TABLE
NTS




17 STONE DUST PATHWAY DETAIL
NTS

| HYDROSEED: ECO LAWN MIX |
|---|
| ECO LAWN MIX (OSC #8340)<br>35% CHEWING FESCUE<br>20% CREEPING RED FESCUE<br>35% HARD FESCUE<br>10% PERENNIAL RYE GRASS<br><br>TO BE APPLIED AT 1.8Kg per 100 SQUARE METERS. |

NOTE:
HYDROSEED MIXES AS PER OSC
(PHONE) 1-800-465-5849

18 ECO LAWN SEED MIX
N.T.S.

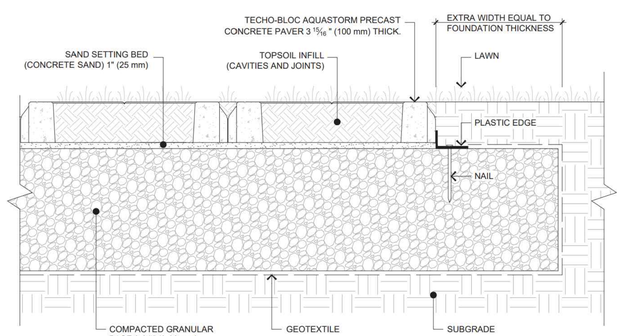
PERMEABLE PAVERS SUPPLIED BY
TECHO-BLOC OR APPROVED EQUAL
WWW.TECHO-BLOC.com
1-877-832-4625

NOTE:

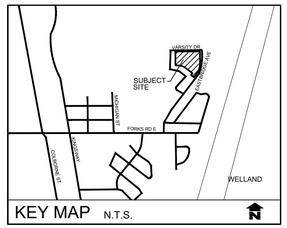
PAVER: AQUASTORM PAVER
OR EQUIVALENT AS APPROVED BY L. A.
COLOUR: GREY
TEXTURE: SMOOTH
LAY PATTERN: LINEAR LAYING PATTERN 02

CAVITIES AND JOINTS TO BE SEED WITH ECO-LAWN SEED MIX SEE DETAIL THIS PAGE

INSTALLATION AS PER MANUFACTURE'S INSTRUCTIONS




19 PRECAST UNIT PAVER TYPICAL DETAIL
N.T.S.




REVISIONS

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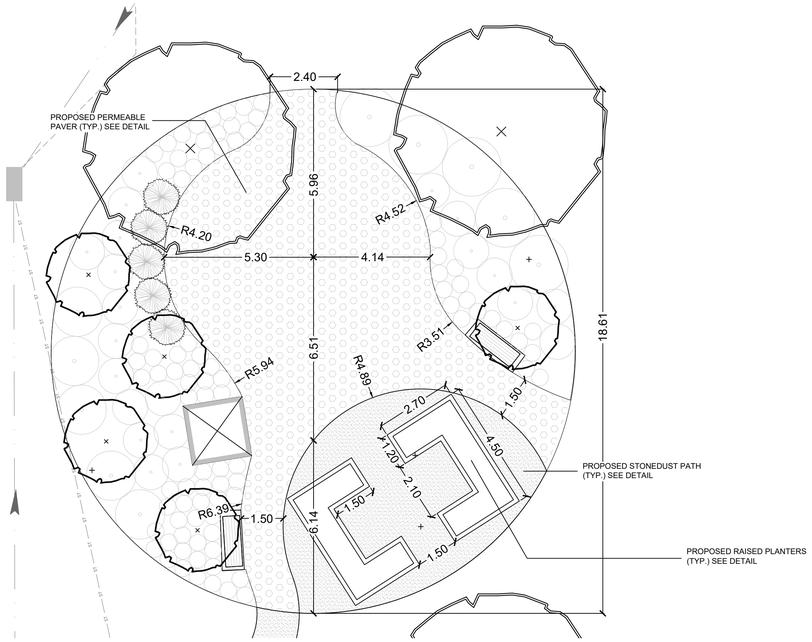
Landscape Details

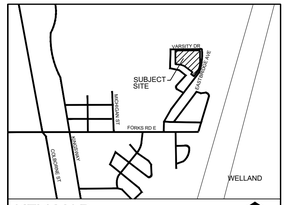
Hill Design Studio INC
226-686-0700 www.hilldesign.ca

| | |
|---|---|
| PROJECT NO.: 2025-59 | DRAWN BY: EH |
| SCALE: AS NOTED | DESIGNED BY: EH |
| SHEET: L3 | APPROVED BY: AWH |
| | PLOT DATE: Feb. 20, 2025 |




20 NATURALIZED PLAY DIMENSION PLAN

1:100




KEY MAP N.T.S.

REVISIONS

| no. | date | description | by |
|---|---|---|---|
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Hill Design Studio INC
226-686-0700 www.hilldesign.ca

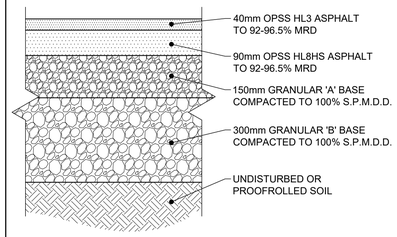
| | |
|---|---|
| PROJECT NO.: 2025-59 | DRAWN BY: EH |
| SCALE: AS NOTED | DESIGNED BY: EH |
| SHEET: L4 | APPROVED BY: AWH |
| | PLOT DATE: Feb. 20, 2025 |

**GEODETIC BENCHMARK INFORMATION**

ELEVATIONS HEREON ARE GEODETIC AND WERE DERIVED FROM THE TOPNET RKT NETWORK, NAD83 CSRS, VERSION 3, EPOC 2010.

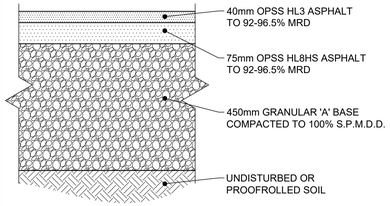
**GENERAL NOTES:**

1. READ ALL CIVIL DRAWINGS IN CONJUNCTION WITH ALL CONTRACT DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, LANDSCAPE AND VENDOR DRAWINGS AS APPLICABLE.
2. THE CONTRACTOR FOR ANY PORTION OF WORK SHALL VISIT THE SITE AND SHALL BE THOROUGHLY FAMILIAR WITH ALL THE PHYSICAL FEATURES THAT MAY AFFECT THE WORK IN ANY WAY.
3. THE CONTRACTOR MUST FIELD CHECK AND VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO COMMENCEMENT OF ANY WORK.
4. THE CONTRACTOR SHALL KEEP WORK SITES CLEAN AND FREE OF ALL CONSTRUCTION DEBRIS DURING THE PROCESS OF CONSTRUCTION AND LEAVE THE SITE CLEAN UPON COMPLETION OF WORK OR PORTIONS OF THE WORK.
5. THE CONTRACTOR SHALL OBTAIN APPROVED SERVICE CONNECTION PERMITS FROM THE CITY OF WELLAND ENGINEERING DIVISION BEFORE CONNECTING TO EXISTING SEWER, OR WATER MAIN.
6. THE CONTRACTOR SHALL NOT OPERATE EXISTING MUNICIPAL WATER SYSTEM VALVES. WATER MAIN FLUSHING, DISINFECTING AND TESTING PLAN TO BE SUBMITTED TO, AND APPROVED BY THE CITY OF WELLAND PRIOR TO THE PERFORMANCE OF WORK. VALVES CAN ONLY BE OPERATED BY THE CITY OF WELLAND OPERATIONAL STAFF. THE CITY REQUIRES A MINIMUM OF 5 DAYS WRITTEN NOTICE PRIOR TO ALL WORKS.
7. CONSULTANT MUST APPROVE ALL DEVIATIONS FROM THE WORKING DRAWINGS. THE CONTRACTOR MUST KEEP AN ACCURATE RECORD OF ALL CHANGES FROM THE ORIGINAL INFORMATION SHOWN ON THE CONSTRUCTION DRAWINGS.
8. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
9. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING:
   - OCCUPATIONAL HEALTH AND SAFETY ACT
   - ONTARIO REGULATION 213/91 - CONSTRUCTION PROJECTS
   - THE ONTARIO BUILDING CODE AND THE NATIONAL BUILDING CODE
   - THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS / DRAWINGS
   - THE NIAGARA PENINSULA STANDARD CONTRACT DOCUMENTS
10. ALL ELEVATIONS AND DIMENSIONS SHOWN ARE IN METERS, UNLESS NOTED OTHERWISE.
11. ALL BUILDING ELEVATIONS (MAIN FINISHED FLOOR, TOP OF FOUNDATION, BASEMENT FINISHED FLOOR) TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
12. PROVIDE APPROPRIATE SHORING FOR TRENCH EXCAVATION IN ACCORDANCE WITH THE LATEST REVISION OF THE OHSA GUIDELINE FOR CONSTRUCTION PROJECTS.
13. MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL BE 2.5m. MINIMUM VERTICAL CLEARANCE BETWEEN SEWERS AND WATER MAINS WHICH CROSS IS 500mm.
14. RIGID PIPE TRENCH EXCAVATION AS PER OPSD 802.030 FOR EARTH EXCAVATION AND OPSD 802.033 FOR ROCK EXCAVATION, AS APPLICABLE. PIPE INSTALLATION TO BE WITH CLASS 'B' BEDDING AND GRANULAR TYPE 'A' MATERIAL COMPACTED TO 100% S.P.M.D.D..
15. FLEXIBLE PIPE TRENCH EXCAVATION AS PER OPSD 802.010 FOR EARTH EXCAVATION AND OPSD 802.013 FOR ROCK EXCAVATION, AS APPLICABLE. PIPE INSTALLATION TO BE WITH GRANULAR TYPE 'A' MATERIAL COMPACTED TO 100% S.P.M.D.D.
16. ALL SANITARY SEWER CONNECTIONS SHALL BE WITH PRE-MANUFACTURED TEES AND SHALL BE INSTALLED AT A MINIMUM GRADE OF 2% UNLESS NOTED OTHERWISE.
17. SANITARY LATERAL INVERTS TO BE CONFIRMED ONCE ARCHITECTURAL BACKGROUNDS ARE PROVIDED AND A BASEMENT FLOOR ELEVATION IS CONFIRMED.
18. ALL WATER SERVICING TO COMPLY WITH CSA B137.5, ANSI/NSF 14&61, AND CURRENT AWWA STANDARDS.
19. ALL WATER SERVICES TO BE INSTALLED WITH TRACER WIRE.
20. ALL WATER SERVICES TO BE INSTALLED WITH A MINIMUM OF 1.7m COVER. SEWERS TO BE INSTALLED WITH A MINIMUM COVER OF 2.20m AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE LEVEL OF THE MAIN SEWER. ON PRIVATE PROPERTY THE MINIMUM COVER IS TO BE NO LESS THAN 1.2m.
21. ALL WATER MAIN FITTINGS SHALL BE MECHANICALLY RESTRAINED. ALL FITTINGS SHALL BE INSTALLED WITH CORROSION RESISTANT COR-BLUE TEE BOLTS AND NUTS, OR APPROVED EQUAL.
22. ALL WATER MAIN FITTINGS SHALL BE CATHODICALLY PROTECTED WITH DENSO CORROSION PROTECTION.
23. HYDRANT TO BE EQUIPPED WITH 'STORZ' CONNECTIONS.
24. BUILDING SERVICES SHALL TERMINATE AT 1.5m FROM THE FACE OF THE BUILDING. SITE SERVICES CONTRACTOR TO COORDINATE, WITH THE MECHANICAL CONTRACTOR, THE CONNECTION OF SITE SERVICES, INCLUDING SANITARY STORM AND WATER, TO THE INTERNAL SERVICES.
25. GRADING IS NOT TO ADVERSELY AFFECT ADJACENT PROPERTIES.
26. EXISTING TOPOGRAPHIC SURVEY ELEVATIONS ARE SHOWN USING INFORMATION PROVIDED (BY OTHERS). ALL ELEVATIONS ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES REGARDING THE SURVEY INFORMATION ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW.
27. ALL WORK WITHIN MUNICIPAL RIGHT-OF-WAYS REQUIRES ROAD OCCUP. PERMIT.
28. THE CONTRACTOR SHALL ENSURE ALL NEW AND EXISTING MANHOLES / CATCHBASINS / VALVES AND ANY OTHER APPURTENANCE WITHIN THE CONSTRUCTION AREA, TO MATCH FINISHED GRADE, AS REQUIRED.
29. NEW MAINTENANCE HOLES TO CONFORM TO OPSD 701.010 - 701.015 AS APPROPRIATE, WITH TYPICAL MAINTENANCE HOLE BENCHING AS PER OPSD 701.021.
30. NEW CATCH BASINS TO BE PER OPSD 705.010 WITH GRATES TO OPSD 400.020.
31. NEW DOUBLE INLET CATCH BASINS TO BE PER OPSD 705.020 WITH GRATES TO OPSD 400.020.
32. NEW DITCH INLET CATCH BASINS TO BE PER OPSD 705.030 WITH GRATES TO OPSD 403.010.
33. PRE-CONSTRUCTION SURVEY TO BE COMPLETED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
34. REMOVAL OF EXISTING FEATURES OF THE SITE ARE TO BE CARRIED OUT IN ACCORDANCE WITH OPSS 510 AS APPLICABLE.
35. ROAD, PAVED AREAS AND GRASSED AREAS TO BE RESTORED TO THEIR ORIGINAL CONDITION OR AS PER THE CITY OF WELLAND STANDARDS FOR ROAD RESTORATION IF EXISTS. TRENCH BACKFILLS WITHIN MUNICIPAL ROADWAYS TO BE WITH FULL DEPTH GRANULAR 'A'.
36. ALL BARRIER CURBS AS PER OPSD 600.110.
37. SIDEWALKS AS PER OPSD 310.010. IN LOCATIONS WHERE SIDEWALK IS ADJACENT TO CURB AND GUTTER, SIDEWALK TO BE AS PER OPSD 310.020. SIDEWALKS TO BE 150mm THICK AT DRIVEWAYS AND 125mm THICK AT ALL OTHER AREAS, 30MPa CONCRETE COMPLETE WITH 100mm THICK GRANULAR 'A' BASE COMPACTED TO 100% SPMDD. SIDEWALKS ARE TO MEET THE LATEST CITY OF WELLAND STANDARDS AS WELL AS THE LATEST NPSCD FOR TACTILE SURFACES AND ACCESSIBLE SIDEWALK.
38. ASPHALT AND GRANULAR CROSS SECTION TO BE CONFIRMED BY GEOTECHNICAL ENGINEER. IF CHANGES TO THE ASPHALT CROSS SECTIONS ARE REQUIRED BASED ON GEOTECHNICAL CONSIDERATIONS, THE CONSULTANT SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF ANY WORK.
39. SEALED COMPACTION TEST REPORTS TO BE PROVIDED BY THE CONTRACTOR THROUGH A THIRD PARTY TESTING AGENCY.
40. PROVIDE SILT FENCE PROTECTION ON ALL NEW AND EXISTING CATCH BASIN COVERS AND AROUND PERIMETER OF AREA OF WORK DURING CONSTRUCTION AND REMOVE UPON COMPLETION.
41. ALL EXISTING SOIL COVER OVER THE COMPACTED FILL IS TO BE FULLY REMOVED AND DISPOSED OF OFF-SITE AS PART OF SITE PREPARATION. THIS REMOVAL IS REQUIRED PRIOR TO ANY NEW CONSTRUCTION, SUBGRADE PREPARATION, OR FURTHER COMPACTION. CONTRACTOR TO VERIFY EXTENTS IN THE FIELD. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL GUIDANCE



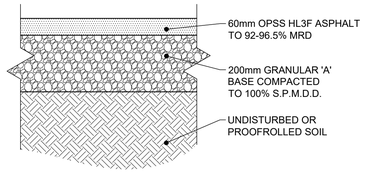

## HEAVY DUTY ASPHALT DETAIL

SCALE: 1:10




## STANDARD DUTY ASPHALT DETAIL

SCALE: 1:10



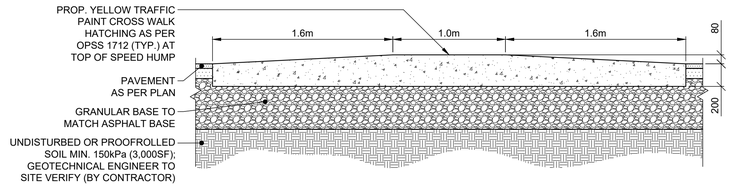

## LIGHT DUTY ASPHALT DETAIL

SCALE: 1:10

## KEY PLAN

SCALE: NTS

NEW DSBN ELEMENTARY SCHOOL
415 EASTBRIDGE AVENUE
WELLAND, ONTARIO




## CONCRETE SPEED HUMP DETAIL

SCALE: 1:25

CONCRETE SPECIFICATION

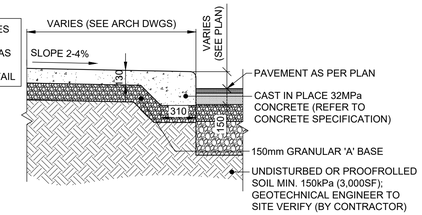
CONCRETE SHALL BE ACCORDING TO OPSS 1350 AND THE FOLLOWING REQUIREMENTS:

CLASS OF CONCRETE 32MPa @ 28 DAYS
COURSE AGGREGATE 19.0mm NOMINAL MAX SIZE
MAXIMUM SLUMP 60mm
AIR CONTENT: 7.0% ± 1.5%

NOTES:

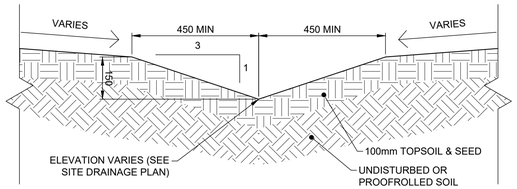
1. SURFACE TO BE BROOM FINISH AND EVEN THROUGHOUT WITH TOOLED EDGES. SAW-CUT AS DIRECTED.
2. COMPACT SUB-GRADE MATERIAL TO 95% SPDD.
3. COMPACT GRANULAR 'A' TO 100% SPDD.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ADDITIONAL NOTES AND CONCRETE SPECIFICATIONS AS PER CONCRETE SPEED HUMP DETAIL



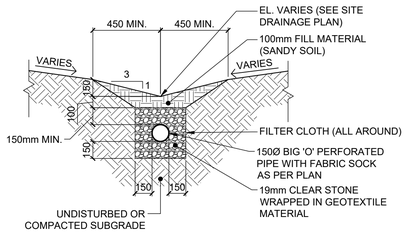

## TYP. RAISED CONCRETE SIDEWALK DETAIL

SCALE: 1:25



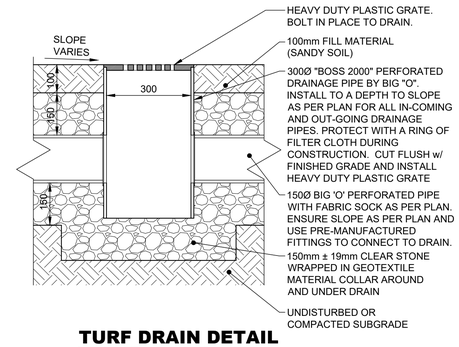

## TYP. SWALE DETAIL

SCALE: 1:10



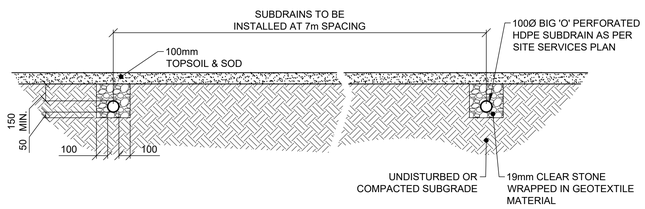

## TYP. SWALE c/w SUBDRAIN DETAIL

SCALE: 1:25



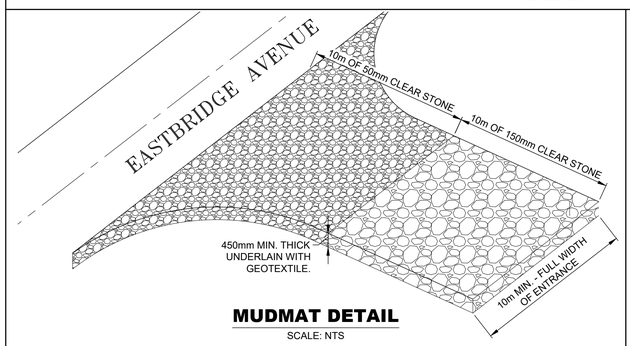

## TURF DRAIN DETAIL

SCALE: 1:10



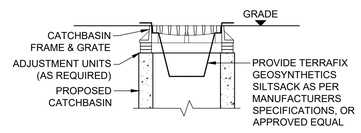

## FIELD TILE DRAINAGE DETAIL

SCALE: 1:25



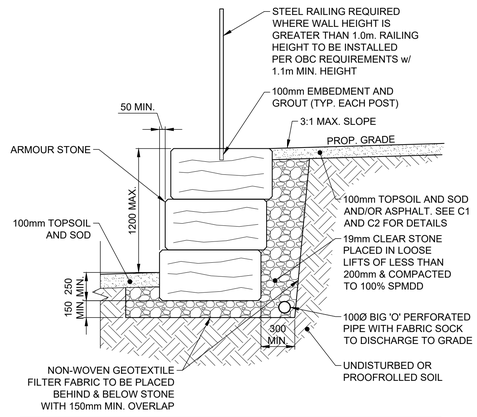

## MUDMAT DETAIL

SCALE: NTS




## TYP. SEDIMENT TRAP DETAIL

SCALE: 1:25




NOTES:

1. STONES OF DIFFERENT SIZES SHALL BE USED AND SHALL BE APPROXIMATELY 600-900mm WIDE BY 450-600mm HIGH BY 900-1500mm LONG. EVERY EFFORT IS TO MADE TO ACHIEVE THE APPEARANCE OF A NATURAL ROCK OUTCROP.
2. ALL VERTICAL JOINTS SHALL BE TIGHT-FITTED WITH NO GAPS EXCEEDING 75mm.
3. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

## TYP. ARMOUR STONE WALL

SCALE: 1:25

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
Feb. 03, 2026
PROVINCE OF ONTARIO

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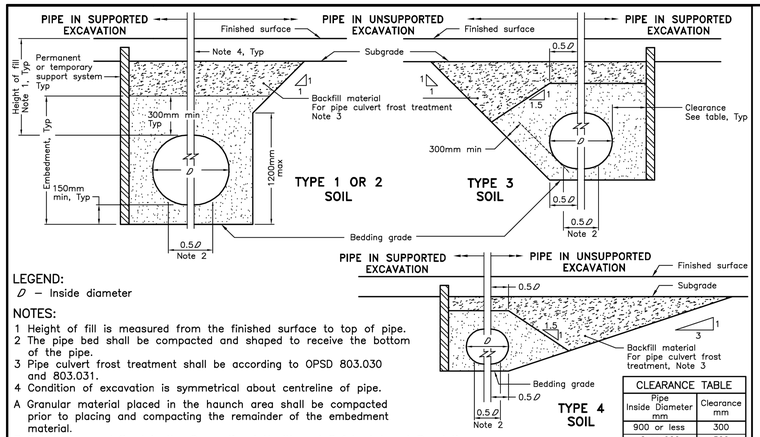
| REV. | ISSUED FOR: | YYYY/MM/DD |
|---|---|---|
| 0 | SITE PLAN APPROVAL | 2025/09/26 |
| 1 | SITE PLAN APPROVAL | 2025/11/12 |
| 2 | SITE PLAN APPROVAL | 2025/12/01 |
| 3 | SITE PLAN APPROVAL | 2026/02/03 |

CLIENT:
DISTRICT SCHOOL BOARD OF NIAGARA
191 CARLTON ST.
ST. CATHARINES ON L2R 7P4

PROJECT:
NEW DSBN ELEMENTARY SCHOOL
415 EASTBRIDGE AVENUE
WELLAND, ON

SHEET TITLE:
GENERAL NOTES
TYPICAL DETAILS,
& KEY PLAN

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | JUNE/2025 |
| DRAWN BY: | CA |
| DESIGNED BY: | CA/JS |
| CHECKED BY: | JH |
| SCALE: | AS SHOWN |
| DWG. | C0.1 |
| REV. | 3 |



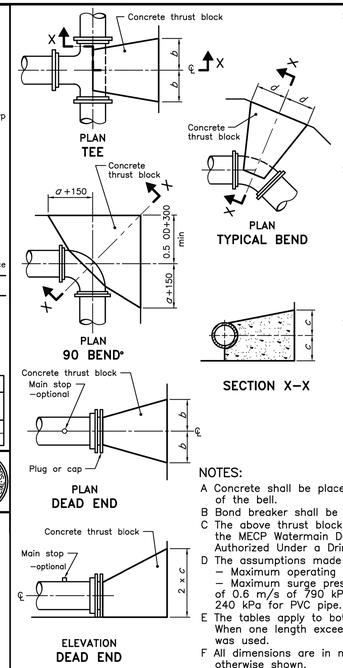

LEGEND:
Ø – Inside diameter

NOTES:
1 Height of fill is measured from the finished surface to top of pipe.
2 The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
3 Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
4 Condition of excavation is symmetrical about centreline of pipe.
A Granular material placed in the haunch area shall be compacted prior to placing and compacting the remainder of the embedment material.
B Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
C All dimensions are in metres unless otherwise shown.

CLEARANCE TABLE

| Pipe Inside Diameter mm | Clearance mm |
|---|---|
| 900 or less | 300 |
| Over 900 | 500 |

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2014 | Rev 3 |
|---|---|---|
| FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION | | OPSD 802.010 |




SOILS WITH TYPICAL BEARING STRENGTH OF 100 TO 199 kPa

| PIPE DIA | Dimensions a | b | c | d |
|---|---|---|---|---|
| 100 | 150 | 250 | 200 | 200 |
| 150 | 250 | 400 | 250 | 300 |
| 200 | 400 | 550 | 300 | 450 |
| 250 | 500 | 650 | 400 | 500 |
| 300 | 650 | 800 | 450 | 650 |
| 350 | 700 | 900 | 550 | 700 |
| 400 | 900 | 1050 | 600 | 850 |

SOILS WITH TYPICAL BEARING STRENGTH OF 200 TO 299 kPa

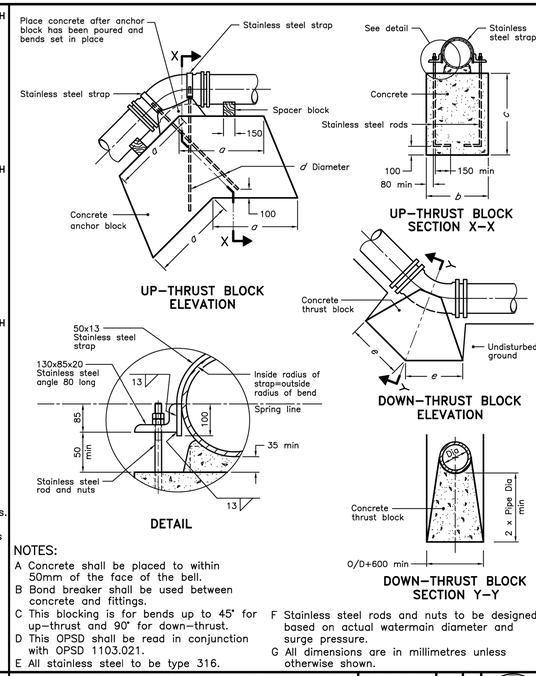
| PIPE DIA | Dimensions a | b | c | d |
|---|---|---|---|---|
| 100 | 150 | 200 | 150 | 150 |
| 150 | 250 | 250 | 200 | 200 |
| 200 | 400 | 350 | 250 | 300 |
| 250 | 500 | 450 | 300 | 350 |
| 300 | 650 | 500 | 350 | 400 |
| 350 | 700 | 600 | 400 | 500 |
| 400 | 900 | 750 | 400 | 600 |

SOILS WITH TYPICAL BEARING STRENGTH OF 300 kPa AND OVER

| PIPE DIA | Dimensions a | b | c | d |
|---|---|---|---|---|
| 100 | 150 | 150 | 150 | 150 |
| 150 | 250 | 200 | 200 | 200 |
| 200 | 400 | 300 | 200 | 250 |
| 250 | 500 | 400 | 250 | 300 |
| 300 | 650 | 450 | 300 | 300 |
| 350 | 700 | 550 | 350 | 350 |
| 400 | 900 | 650 | 350 | 450 |

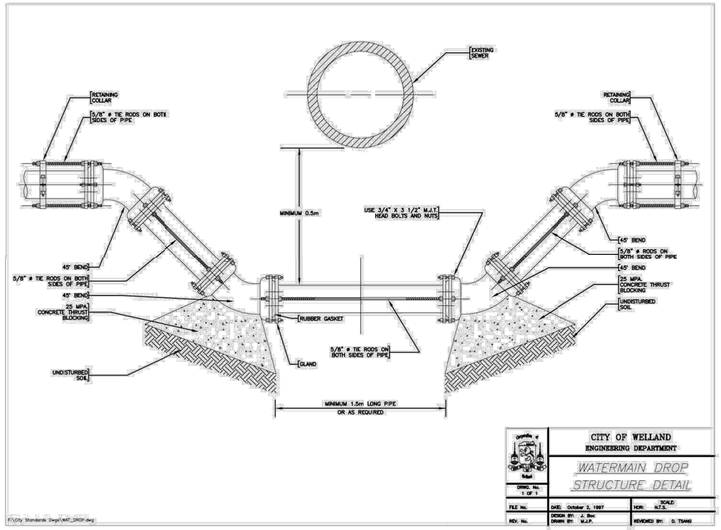
NOTES:
A Concrete shall be placed to within 50mm of the face of the bell.
B Bond breaker shall be used between concrete and fittings.
C The above thrust block dimensions meet or exceed the MECP Watermain Design Criteria for Future Alterations Authorized Under a Drinking Water Works Permit.
D The assumptions made for the above calculations are:
– Maximum operating pressure of 690 kPa,
– Maximum surge pressure with a flow velocity change of 0.6 m/s of 790 kPa for Class 52 DI pipe and 240 kPa for PVC pipe.
E The tables apply to both ductile iron and PVC pipe. When one length exceeded the other, the longer length was used.
F All dimensions are in millimetres unless otherwise shown.

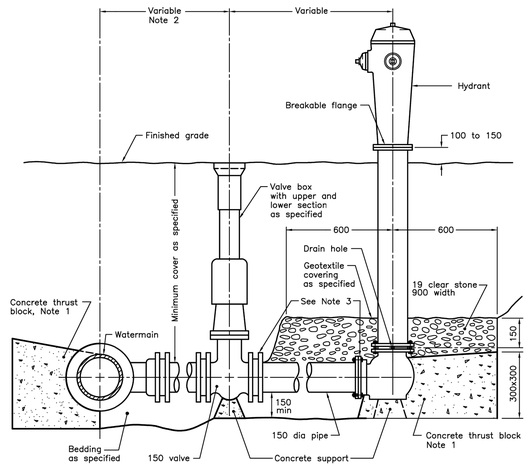
| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2018 | Rev 3 |
|---|---|---|
| CONCRETE THRUST BLOCKS FOR TEES, PLUGS, AND HORIZONTAL BENDS | | OPSD 1103.010 |




NOTES:
A Concrete shall be placed to within 50mm of the face of the bell.
B Bond breaker shall be used between concrete and fittings.
C This blocking is for bends up to 45° for up–thrust and 90° for down–thrust.
D This OPSD shall be read in conjunction with OPSD 1103.021.
E All stainless steel to be type 316.
F Stainless steel rods and nuts to be designed based on actual watermain diameter and surge pressure.
G All dimensions are in millimetres unless otherwise shown.

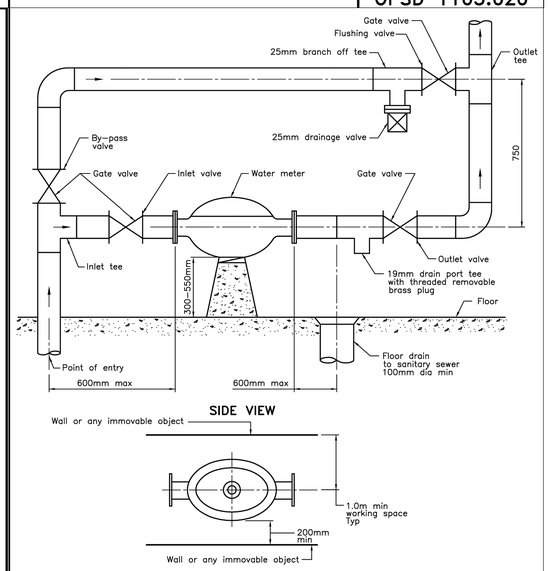
| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2018 | Rev 4 |
|---|---|---|
| CONCRETE THRUST BLOCKS FOR VERTICAL BENDS | | OPSD 1103.020 |




NOTES:
1 All concrete thrust blocks shall be poured against undisturbed ground.
2 When specified, for watermains 400mm and less, locate valve within 1.0m of centreline of watermain. Retaining and restraining devices shall be utilized. For watermains 600mm and over, bolt valve with flanged end directly to flanged tee.
3 Retaining and restraining devices shall be as specified.
A Bond breaker shall be used between the concrete and the fittings and appurtenances.
B Bolts and nuts for buried flange to flange connections shall be stainless steel.
C When required, flange of standpipe extensions shall not be in frost zone.
D This OPSD shall be read in conjunction with OPSD 1103.010 and 1103.020.
E Backfill material within 500mm of service box shall be native or imported, as specified.
F Tracer wire shall be installed as specified.
G All dimensions are in millimetres unless otherwise shown.

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2018 | Rev 3 |
|---|---|---|
| HYDRANT INSTALLATION | | OPSD 1105.010 |




NOTES:
A All joints shall be restrained. Pipes and valves shall be supported.
B Flanged fittings are required for all compound meters.
C By–pass line size shall be same size as the meter line.
D Working space at the meter shall be a minimum of 2.0m in height.
E Details of this OPSD shall be verified in conjunction with OBC where it governs.
F All dimensions are in millimetres unless otherwise shown.

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2019 | Rev 3 |
|---|---|---|
| PIPING LAYOUT FOR WATER METERS IN BUILDING WITH BY–PASS | | OPSD 1107.030 |

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
Feb. 03, 2026
PROVINCE OF ONTARIO

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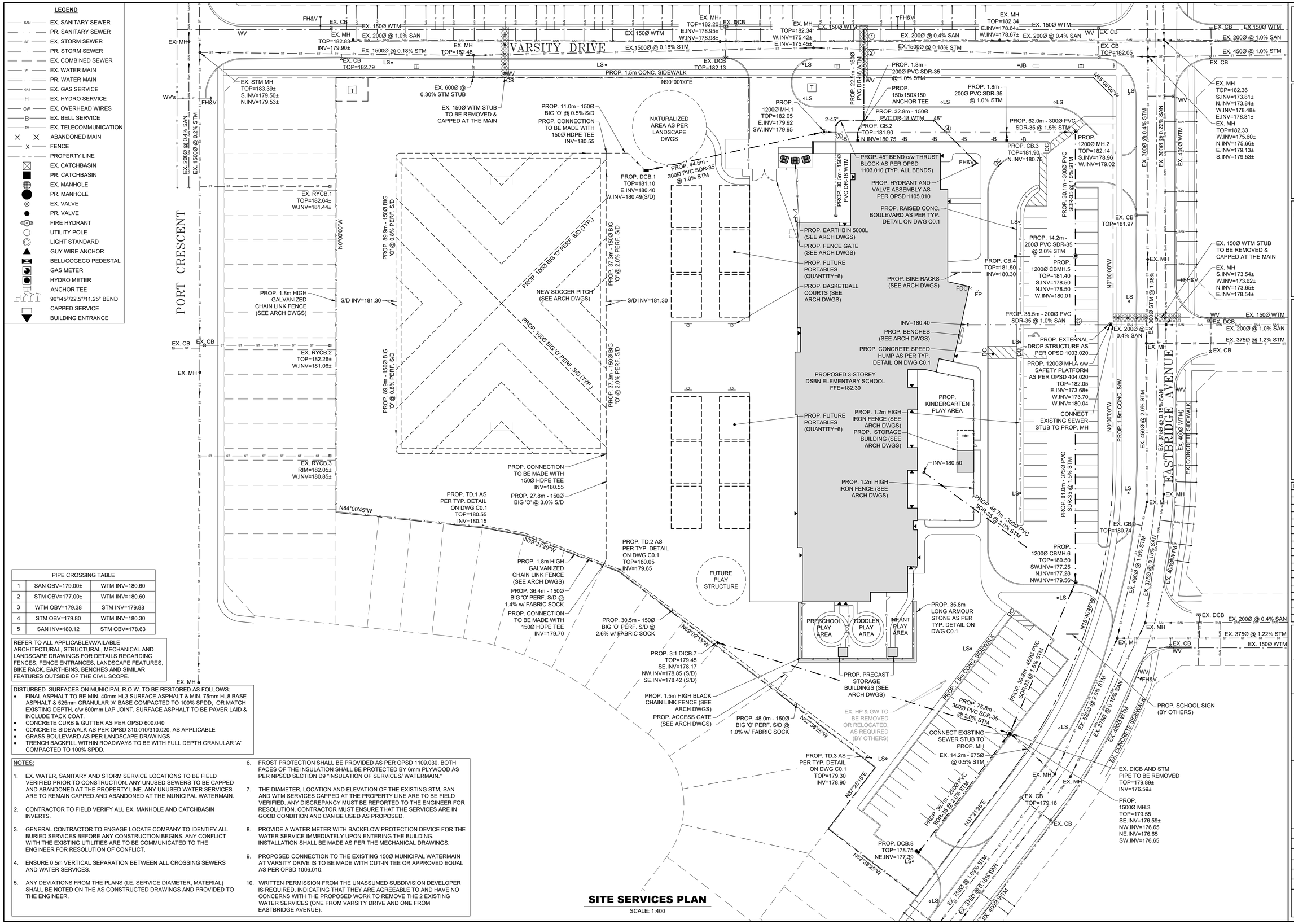
CLIENT:
DISTRICT SCHOOL BOARD OF NIAGARA
191 CARLTON ST.
ST. CATHARINES ON L2R 7P4

PROJECT:
NEW DSBN ELEMENTARY SCHOOL
415 EASTBRIDGE AVENUE
WELLAND, ON

SHEET TITLE:
TYPICAL DETAILS

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | JUNE/2025 |
| DRAWN BY: | CA |
| DESIGNED BY: | CA/JS |
| CHECKED BY: | JH |
| SCALE: | AS SHOWN |
| DWG. | C0.2 |
| REV. | 3 |




| PIPE CROSSING TABLE | | |
|---|---|---|
| 1 | SAN OBV=179.00± | WTM INV=180.60 |
| 2 | STM OBV=177.00± | WTM INV=180.60 |
| 3 | WTM OBV=179.38 | STM INV=179.88 |
| 4 | STM OBV=179.80 | WTM INV=180.30 |
| 5 | SAN INV=180.12 | STM OBV=178.63 |

REFER TO ALL APPLICABLE/AVAILABLE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND LANDSCAPE DRAWINGS FOR DETAILS REGARDING FENCES, FENCE ENTRANCES, LANDSCAPE FEATURES, BIKE RACK, EARTHBINS, BENCHES AND SIMILAR FEATURES OUTSIDE OF THE CIVIL SCOPE.

DISTURBED SURFACES ON MUNICIPAL R.O.W. TO BE RESTORED AS FOLLOWS:

- FINAL ASPHALT TO BE MIN. 40mm HL3 SURFACE ASPHALT & MIN. 75mm HL8 BASE ASPHALT & 525mm GRANULAR 'A' BASE COMPACTED TO 100% SPDD, OR MATCH EXISTING DEPTH, c/w 600mm LAP JOINT. SURFACE ASPHALT TO BE PAVER LAID & INCLUDE TACK COAT.
- CONCRETE CURB & GUTTER AS PER OPSD 600.040
- CONCRETE SIDEWALK AS PER OPSD 310.010/310.020, AS APPLICABLE
- GRASS BOULEVARD AS PER LANDSCAPE DRAWINGS
- TRENCH BACKFILL WITHIN ROADWAYS TO BE WITH FULL DEPTH GRANULAR 'A' COMPACTED TO 100% SPDD.

NOTES:

1. EX. WATER, SANITARY AND STORM SERVICE LOCATIONS TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ANY UNUSED SEWERS TO BE CAPPED AND ABANDONED AT THE PROPERTY LINE. ANY UNUSED WATER SERVICES ARE TO REMAIN CAPPED AND ABANDONED AT THE MUNICIPAL WATERMAIN.
2. CONTRACTOR TO FIELD VERIFY ALL EX. MANHOLE AND CATCHBASIN INVERTS.
3. GENERAL CONTRACTOR TO ENGAGE LOCATE COMPANY TO IDENTIFY ALL BURIED SERVICES BEFORE ANY CONSTRUCTION BEGINS. ANY CONFLICT WITH THE EXISTING UTILITIES ARE TO BE COMMUNICATED TO THE ENGINEER FOR RESOLUTION OF CONFLICT.
4. ENSURE 0.5m VERTICAL SEPARATION BETWEEN ALL CROSSING SEWERS AND WATER SERVICES.
5. ANY DEVIATIONS FROM THE PLANS (I.E. SERVICE DIAMETER, MATERIAL) SHALL BE NOTED ON THE AS CONSTRUCTED DRAWINGS AND PROVIDED TO THE ENGINEER.
6. FROST PROTECTION SHALL BE PROVIDED AS PER OPSD 1109.030. BOTH FACES OF THE INSULATION SHALL BE PROTECTED BY 6mm PLYWOOD AS PER NPSCD SECTION D9 "INSULATION OF SERVICES/ WATERMAIN."
7. THE DIAMETER, LOCATION AND ELEVATION OF THE EXISTING STM, SAN AND WTM SERVICES CAPPED AT THE PROPERTY LINE ARE TO BE FIELD VERIFIED. ANY DISCREPANCY MUST BE REPORTED TO THE ENGINEER FOR RESOLUTION. CONTRACTOR MUST ENSURE THAT THE SERVICES ARE IN GOOD CONDITION AND CAN BE USED AS PROPOSED.
8. PROVIDE A WATER METER WITH BACKFLOW PROTECTION DEVICE FOR THE WATER SERVICE IMMEDIATELY UPON ENTERING THE BUILDING. INSTALLATION SHALL BE MADE AS PER THE MECHANICAL DRAWINGS.
9. PROPOSED CONNECTION TO THE EXISTING 150Ø MUNICIPAL WATERMAIN AT VARSITY DRIVE IS TO BE MADE WITH CUT-IN TEE OR APPROVED EQUAL AS PER OPSD 1006.010.
10. WRITTEN PERMISSION FROM THE UNASSUMED SUBDIVISION DEVELOPER IS REQUIRED, INDICATING THAT THEY ARE AGREEABLE TO AND HAVE NO CONCERNS WITH THE PROPOSED WORK TO REMOVE THE 2 EXISTING WATER SERVICES (ONE FROM VARSITY DRIVE AND ONE FROM EASTBRIDGE AVENUE).

## SITE SERVICES PLAN

SCALE: 1:400

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
Feb. 03, 2026
PROVINCE OF ONTARIO

Do not scale drawings. Report any discrepancies to Hallex Civil Engineering Ltd. before proceeding.

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HALLEX CIVIL ENGINEERING LTD.
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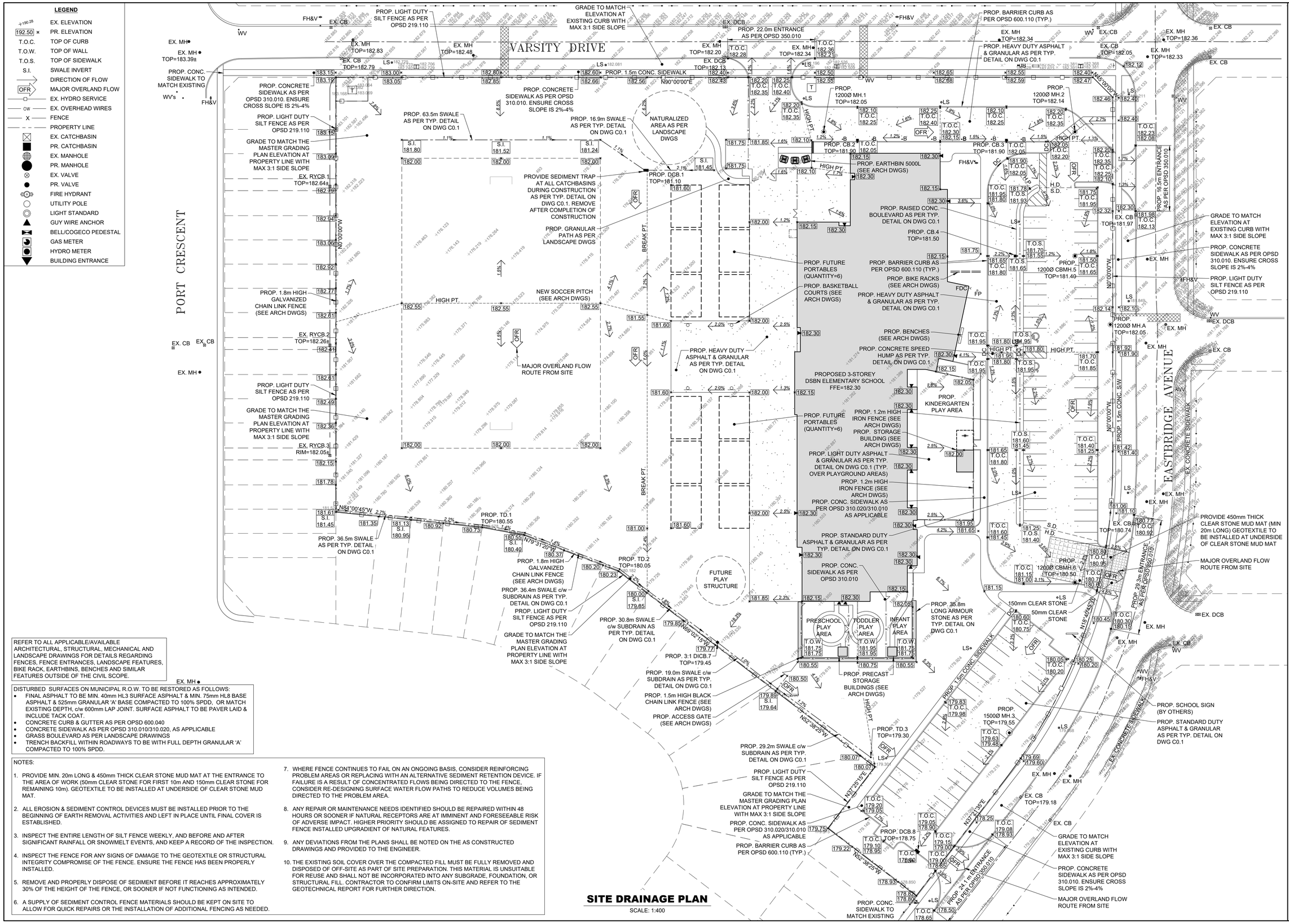
| REV. | ISSUED FOR: | YYYY/MM/DD |
|---|---|---|
| 0 | SITE PLAN APPROVAL | 2025/09/26 |
| 1 | SITE PLAN APPROVAL | 2025/11/12 |
| 2 | SITE PLAN APPROVAL | 2025/12/01 |
| 3 | SITE PLAN APPROVAL | 2026/02/03 |

CLIENT:
DISTRICT SCHOOL BOARD OF NIAGARA
191 CARLTON ST.
ST. CATHARINES ON L2R 7P4

PROJECT:
NEW DSBN ELEMENTARY SCHOOL
415 EASTBRIDGE AVENUE
WELLAND, ON

SHEET TITLE:
SITE SERVICES PLAN

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | JUNE/2025 |
| DRAWN BY: | CA |
| DESIGNED BY: | CA/JS |
| CHECKED BY: | JH |
| SCALE: | AS SHOWN |
| DWG. | C1 |
| REV. | 3 |




REFER TO ALL APPLICABLE/AVAILABLE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND LANDSCAPE DRAWINGS FOR DETAILS REGARDING FENCES, FENCE ENTRANCES, LANDSCAPE FEATURES, BIKE RACK, EARTHBINS, BENCHES AND SIMILAR FEATURES OUTSIDE OF THE CIVIL SCOPE.

DISTURBED SURFACES ON MUNICIPAL R.O.W. TO BE RESTORED AS FOLLOWS:

- FINAL ASPHALT TO BE MIN. 40mm HL3 SURFACE ASPHALT & MIN. 75mm HL8 BASE ASPHALT & 525mm GRANULAR 'A' BASE COMPACTED TO 100% SPDD, OR MATCH EXISTING DEPTH, c/w 600mm LAP JOINT. SURFACE ASPHALT TO BE PAVER LAID & INCLUDE TACK COAT.
- CONCRETE CURB & GUTTER AS PER OPSD 600.040
- CONCRETE SIDEWALK AS PER OPSD 310.010/310.020, AS APPLICABLE
- GRASS BOULEVARD AS PER LANDSCAPE DRAWINGS
- TRENCH BACKFILL WITHIN ROADWAYS TO BE WITH FULL DEPTH GRANULAR 'A' COMPACTED TO 100% SPDD.

NOTES:

1. PROVIDE MIN. 20m LONG & 450mm THICK CLEAR STONE MUD MAT AT THE ENTRANCE TO THE AREA OF WORK (50mm CLEAR STONE FOR FIRST 10m AND 150mm CLEAR STONE FOR REMAINING 10m). GEOTEXTILE TO BE INSTALLED AT UNDERSIDE OF CLEAR STONE MUD MAT.
2. ALL EROSION & SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO THE BEGINNING OF EARTH REMOVAL ACTIVITIES AND LEFT IN PLACE UNTIL FINAL COVER IS ESTABLISHED.
3. INSPECT THE ENTIRE LENGTH OF SILT FENCE WEEKLY, AND BEFORE AND AFTER SIGNIFICANT RAINFALL OR SNOWMELT EVENTS, AND KEEP A RECORD OF THE INSPECTION.
4. INSPECT THE FENCE FOR ANY SIGNS OF DAMAGE TO THE GEOTEXTILE OR STRUCTURAL INTEGRITY COMPROMISE OF THE FENCE. ENSURE THE FENCE HAS BEEN PROPERLY INSTALLED.
5. REMOVE AND PROPERLY DISPOSE OF SEDIMENT BEFORE IT REACHES APPROXIMATELY 30% OF THE HEIGHT OF THE FENCE, OR SOONER IF NOT FUNCTIONING AS INTENDED.
6. A SUPPLY OF SEDIMENT CONTROL FENCE MATERIALS SHOULD BE KEPT ON SITE TO ALLOW FOR QUICK REPAIRS OR THE INSTALLATION OF ADDITIONAL FENCING AS NEEDED.
7. WHERE FENCE CONTINUES TO FAIL ON AN ONGOING BASIS, CONSIDER REINFORCING PROBLEM AREAS OR REPLACING WITH AN ALTERNATIVE SEDIMENT RETENTION DEVICE. IF FAILURE IS A RESULT OF CONCENTRATED FLOWS BEING DIRECTED TO THE FENCE, CONSIDER RE-DESIGNING SURFACE WATER FLOW PATHS TO REDUCE VOLUMES BEING DIRECTED TO THE PROBLEM AREA.
8. ANY REPAIR OR MAINTENANCE NEEDS IDENTIFIED SHOULD BE REPAIRED WITHIN 48 HOURS OR SOONER IF NATURAL RECEPTORS ARE AT IMMINENT AND FORESEEABLE RISK OF ADVERSE IMPACT. HIGHER PRIORITY SHOULD BE ASSIGNED TO REPAIR OF SEDIMENT FENCE INSTALLED UPGRADIENT OF NATURAL FEATURES.
9. ANY DEVIATIONS FROM THE PLANS SHALL BE NOTED ON THE AS CONSTRUCTED DRAWINGS AND PROVIDED TO THE ENGINEER.
10. THE EXISTING SOIL COVER OVER THE COMPACTED FILL MUST BE FULLY REMOVED AND DISPOSED OF OFF-SITE AS PART OF SITE PREPARATION. THIS MATERIAL IS UNSUITABLE FOR REUSE AND SHALL NOT BE INCORPORATED INTO ANY SUBGRADE, FOUNDATION, OR STRUCTURAL FILL. CONTRACTOR TO CONFIRM LIMITS ON-SITE AND REFER TO THE GEOTECHNICAL REPORT FOR FURTHER DIRECTION.

## SITE DRAINAGE PLAN

SCALE: 1:400

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
Feb. 03, 2026
PROVINCE OF ONTARIO

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| CHECKED BY: | JH |
| SCALE: | AS SHOWN |
| DWG. | C2 |
| REV. | 3 |

## GENERAL NOTES:

1. READ ALL STRUCTURAL/CIVIL DRAWINGS IN CONJUNCTION WITH ALL CONTRACT DOCUMENTS, INCLUDING REFERENCED ELECTRICAL, MECHANICAL, VENDOR DRAWINGS, AND SPECIFICATIONS
2. THE CONTRACTOR FOR ANY PORTION OF WORK SHALL VISIT THE SITE AND SHALL BE THOROUGHLY FAMILIAR WITH ALL THE PHYSICAL FEATURES THAT MAY AFFECT THE WORK IN ANY WAY.
3. FIELD MEASURE AND MAKE ADJUSTMENTS TO SUIT EXISTING CONDITIONS.
4. THE CONTRACTOR SHALL KEEP WORK SITES CLEAN AND FREE OF ALL CONSTRUCTION DEBRIS DURING THE PROCESS OF CONSTRUCTION AND LEAVE THE SITE CLEAN UPON COMPLETION OF WORK OR PORTIONS OF THE WORK.
5. CONSULTANT MUST APPROVE ALL DEVIATIONS FROM THE WORKING DRAWINGS. THE CONTRACTOR MUST KEEP AN ACCURATE RECORD OF ALL CHANGES FROM THE ORIGINAL INFORMATION SHOWN ON THE CONSTRUCTION DRAWINGS.
6. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
7. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING:
   - OCCUPATIONAL HEALTH AND SAFETY ACT
   - ONTARIO REGULATION 213/91 - CONSTRUCTION PROJECTS
   - THE ONTARIO BUILDING CODE AND THE NATIONAL BUILDING CODE
8. IF DISCREPANCIES EXIST BETWEEN THESE DWGS. AND THE SPECIFICATIONS, CONTACT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING.
9. DO NOT SCALE THESE DRAWINGS.

## GENERAL MATERIALS:

1. DELIVER MATERIALS TO JOB SITE IN DRY CONDITION. KEEP MATERIALS DRY AND CLEAN UNTIL USE.
2. BACKFILL WITH GRANULAR A UNLESS OTHERWISE NOTED ON THE DRAWINGS, COMPACT IN ONE FOOT LIFTS TO A MINIMUM 95% S.P.D.D. TO SIX INCHES BELOW TOP OF CONCRETE.
3. ALL CEMENT TO BE PORTLAND BLAST FURNACE SLAG CEMENT TO CAN-A326 BLENDED HYDRAULIC CEMENTS CONSISTING OF 75% NORMAL TYPE 10 PORTLAND CEMENT AND 25% CEMENTITIOUS HYDRAULIC SLAG.
4. ALL REINFORCING STEEL TO BE GRADE 400 DEFORMED BARS TO CAN/CSA G30.18.
5. ALL BASE GROUT TO BE "MEADOWS V1" BY W.R. MEADOWS OR APPROVED EQUAL.
6. EPOXY GROUT FOR DOWELS TO BE ANCHORFIX 2CA BY SIKA CANADA OR APPROVED EQUAL.
7. DISPOSAL OF ALL EXCAVATED MATERIAL SHALL BE OFF-SITE OTHER THAN APPROVED BACKFILL

## CONCRETE FORMWORK:

1. THE DESIGN AND FIELD REVIEW OF FORMWORK, SHORING AND RE-SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR. RE-SHORING DRAWINGS SHALL BE SUBMITTED TO HALLEX ENGINEERING LTD. FOR THE EFFECT ON THE BASE BUILDING STRUCTURE ONLY.
2. NO COLUMN OR WALL FORMS SHALL BE REMOVED BEFORE CONCRETE HAS REACHED 10 MPa FOR ARCHITECTURAL CONCRETE OR 8 MPa FOR OTHER COLUMNS OR WALLS.
3. NO SLAB FORMS OR BEAM FORMS SHALL BE REMOVED BEFORE CONCRETE HAS REACHED 75% OF THE 28 DAY STRENGTH BEFORE STRIPPING/RE-SHORING.
4. ALL SLABS, BEAMS, GIRDERS ETC. TO BE SHORED UNTIL CONCRETE REACHED DESIGN STRENGTH.
5. NO CONCRETE MAY BE REMOVED WITH PERCUSSIVE METHODS SUCH AS CHIPPING JACK-HAMMERING WITHOUT PRIOR APPROVAL OF HALLEX ENGINEERING LTD.

## CONCRETE:

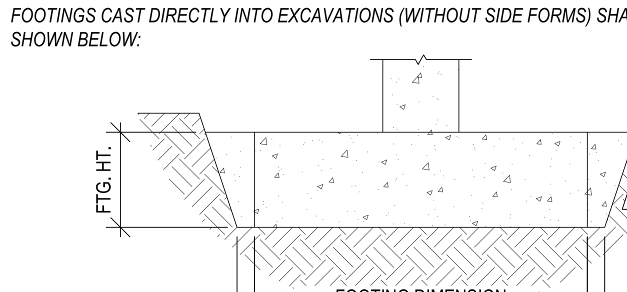
1. ALL CONCRETE SHALL CONFORM TO CSA STANDARD A23.1 (LATEST EDITION) HAVING A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa (UNLESS NOTED OTHERWISE) EXCEPT FOR CONCRETE SLAB ON GRADE TO HAVE A MINIMUM STRENGTH OF 35 MPa (UNLESS NOTED OTHERWISE).
2. ALL CAST-IN-PLACE CONCRETE SHALL CONFORM TO THE LATEST EDITION OF CSA STANDARD A23.1, "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".
3. SUBMIT CONCRETE MIX DESIGN TO ENGINEER PRIOR TO PRODUCTION. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE SITE.
4. SUBMIT PLACING DRAWINGS AND BAR LISTS FOR ALL REINFORCING STEEL TO RSIO MANUAL SUFFICIENTLY DETAILED AND DIMENSIONED TO PERMIT PLACING OF ALL REINFORCING WITHOUT REFERENCE TO DESIGN DRAWINGS.
5. THE CONTRACTOR WILL EMPLOY A TESTING COMPANY TO CONDUCT STRENGTH, SLUMP, MATERIAL AND AIR ENTRAINED TESTS ONCE FOR EVERY DAY CONCRETE IS POURED. STRENGTH TEST SHALL INCLUDE THREE CYLINDERS, ONE TESTED AT 7 DAYS AND TWO TESTED AT 28 DAYS IN ACCORDANCE WITH CAN3-A23.2. SLUMP AND AIR CONTENT TESTS SHALL CONSIST OF ONE SAMPLE EACH IN ACCORDANCE WITH CAN3-23.1 AND CAN3-A23.2.
6. ALL CONCRETE THAT WILL BE EXPOSED TO WEATHER SHALL HAVE A 5 TO 7% AIR ENTRAINMENT AT TIME OF PLACING.
7. BULL FLOAT CONCRETE SURFACES AND PROVIDE A LIGHT TROWEL FINISH TO PRODUCE A SMOOTH NON-SLIP SURFACE FREE FROM RIDGES, VOIDS AND MACHINE MARKS. EXTERIOR CONCRETE WALKING SURFACES SHALL HAVE A LIGHT BROOM FINISH TO CREATE A NON-SLIP SURFACE. PROVIDE ROUGH SURFACE AT COLD JOINTS.
8. KEEP CONTINUOUSLY MOIST ALL EXPOSED NON-FORMED SURFACES FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS AFTER PLACEMENT OF CONCRETE UNLESS NOTED OTHERWISE.
9. ALL EXPOSED CONCRETE EDGES ARE TO HAVE A THREE-QUARTER INCH (3/4") CHAMFER UNLESS NOTED OTHERWISE.
10. WHERE NEW CONCRETE IS TO BE PLACED AGAINST EXISTING CONCRETE, EXISTING CONCRETE MUST BE THOROUGHLY CLEANED TO REMOVE OIL, GREASE AND DIRT AND BE SURFACE PREPPED TO A MINIMUM CSP-7 (AS PER INTERNATIONAL CONCRETE REPAIR INSTITUTE) PRIOR TO PLACEMENT OF NEW CONCRETE UNLESS NOTED OTHERWISE ON DRAWINGS.
11. PROVIDE HOT OR COLD WEATHER PROTECTION WHEN REQUIRED AS SPECIFIED IN CAN3-A23.1.
12. VIBRATE ALL CONCRETE. ENSURE ALL CONCRETE IS DENSE, FREE OF HONEY COMBING, AND THAT NO SEGREGATION OCCURS.
13. ENSURE ALL REBAR IS CLEAN SECURELY HELD IN CORRECT LOCATION DURING PLACING.
14. FOR ALL NEW OPENINGS IN SLAB-ON-GRADE PROVIDE MINIMUM 10M DOWELS AROUND PERIMETER OF OPENING, 12" LONG x 4" EMBEDMENT (FRICTION-FIT) SPACED @ 16" c/c. THE NEW CONCRETE INFILL SHALL HAVE A MINIMUM REINFORCEMENT OF WWM 6x6x$\frac{6}{6}$ (U.N.O.)

**CONCRETE PROPERTIES**

| ELEMENT | COMPRESSIVE STRENGTH (MPa) 28 DAYS U.N.O. | EXPOSURE CLASS |
|---|---|---|
| FOOTINGS | 25 MPa (56 DAYS) | N |
| SLAB-ON-GRADE (INTERIOR) | 25 MPa | N |
| SLAB-ON-GRADE (EXTERIOR) | 35 MPa | C-1 |
| RETAINING/FOUNDATION WALLS | 25 MPa | F-2 |
| INTERIOR MECHANICAL HOUSEKEEPING PADS | 20 MPa | N |
| EXTERIOR MECHANICAL HOUSEKEEPING PADS | 20 MPa | C-2 |
| GRADE BEAMS | 30 MPa | N |

## FOUNDATIONS:

1. BEARING SURFACES MUST BE APPROVED BY THE SOILS ENGINEER IMMEDIATELY PRIOR TO CONSTRUCTION.
2. UNLESS OTHERWISE SHOWN, CENTER FOOTINGS BELOW COLUMNS AND WALLS.
3. DOWELS SHALL BE PLACED BEFORE CONCRETE IS PLACED. TEMPLATES SHALL BE USED TO ENSURE CORRECT PLACEMENT OF DOWELS.
4. FOOTINGS MAY HAVE TO BE LOWERED TO ACCOMMODATE MECHANICAL OR ELECTRICAL SERVICES. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ELEVATIONS. FOOTINGS ARE NOT TO BE UNDERMINED BY EXCAVATIONS FOR SERVICES, PITS, ETC.
5. FOOTINGS ELEVATIONS, IF SHOWN, ARE FOR BIDDING PURPOSES ONLY, ARE NOT FINAL, AND MAY VARY ACCORDING TO SITE CONDITIONS OR AS REQUIRED BY SERVICES. ALL FOOTINGS MUST BE TAKEN TO A BEARING LAYER APPROVED BY THE SOILS ENGINEER.
6. BEARING SURFACES MUST BE PROTECTED FROM FREEZING BEFORE AND AFTER FOOTINGS ARE POURED.
7. SUB-BASE DESIGN OF THE SOIL UNDER THE SLAB ON GRADE SHALL BE IN ACCORDANCE WITH THE SOIL REPORT.
8. CONCRETE PLACED UNDER WATER SHALL CONFORM TO CAN/CSA-A23.1.
9. PLACE A THIN CONCRETE 'MUD SLAB MAT' (MINIMUM 2" THICK, 10MPa LEAN CONCRETE FILL) BELOW ALL FOOTINGS IMMEDIATELY FOLLOWING FOUNDATION EXCAVATION AND EVALUATION ON NATIVE SOILS TO MAINTAIN UNDERSIDE OF FOOTING ELEVATIONS AS SHOWN ON DRAWINGS, AS WELL AS ANY SUPPLEMENTAL COMPACTION TO MINIMIZE DISTURBANCE TO FOUNDING SOILS DUE TO CONSTRUCTION AND FOOT TRAFFIC IN AND AROUND FOOTING BEDS, AS WELL AS POTENTIAL GROUND WATER SEEPAGE.
10. FOOTINGS CAST DIRECTLY INTO EXCAVATIONS (WITHOUT SIDE FORMS) SHALL NOT BE LARGER THAN SHOWN BELOW:




## MASONRY:

1. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES TO COMPLETE ALL THE MASONRY WORK INDICATED ON THE DWGS AND SPECIFIED HEREIN INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   - 1.1 ALL CONC. BLOCK WALLS INCLUDING HORIZONTAL REINFORCING
   - 1.2 PROVIDE MASONRY PILASTER AROUND COLUMNS AS REQUIRED-MIN 3½" THICK. FILL SPACE AROUND COLUMNS WITH GROUT.
   - 1.3 GROUTING TO RECEIVE STEEL BEAMS AND BLOCKING IN.
   - 1.4 SUPPLY AND INSTALL ALL LINTELS AND WALL SUPPORT CLIP ANGLES REQUIRED.
   - 1.5 INSTALL INSERTS, ANCHOR BOLTS, DOWELS, ETC. REQUIRED
   - 1.6 ALLOW FOR BLOCKING AROUND CONDUIT PIPING AND OTHER OBSTRUCTIONS.
   - 1.7 BUILD IN DOOR FRAMES, WINDOWS, LOUVRES, OTHER OPENINGS, SUPPORT FRAMES, PLUMBING, PIPING CONDUIT AND BOXES AS REQUIRED.
   - 1.8 ALL CONCRETE BLOCK WALLS SHALL BE CONSIDERED PARTIALLY GROUTED UNLESS NOTES OTHERWISE.
2. ALL WORK SHALL CONFORM TO CSA STANDARD S304.1 (LATEST EDITION) "MASONRY DESIGN FOR BUILDINGS (LIMIT STATES DESIGN)"; AND CSA STANDARD A370 "CONNECTORS FOR MASONRY"
3. BLOCK TO BE NORMAL WEIGHT HOLLOW, TYPE H/15/A/M TO CSA-A165.1M. INCLUDE ALL SPECIAL SHAPES SUCH AS END AND BULLNOSE, AS REQUIRED.
   - 3.1 HANDLE AND STORE UNITS TO PREVENT CHIPPING.
   - 3.2 DO NOT USE CHIPPED, CRACKED, OR DAMAGED UNITS.
4. MORTAR TO BE TYPE S. SHALL CONFORM TO CSA STANDARD A179 (LATEST EDITION). NO CALCIUM OR CHLORIDE OR OTHER CHLORIDE SALTS OR ADMIXTURES CONTAINING THESE TO BE ADDED TO MORTAR OR GROUT.
5. ALL MASONRY WALLS SHALL BE FULL MORTAR HEAD AND BED JOINTS HAVING A THICKNESS OF 3/8".
6. TOOL ALL MORTAR JOINTS AFTER MORTAR HAS BECOME THUMB PRINT HARD. ALL JOINTS ARE TO BE CONCAVE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
7. ALL MASONRY UNITS ARE TO BE LAID IN A RUNNING BOND PATTERN, TRUE TO LINE, PLUMB, SQUARE AND LEVEL WITH VERTICAL JOINTS OF ALTERNATE COURSES IN LINE. THE MASON SHALL SET ALL CORNERS, LINES AND LEVELS AND CHECK ALIGNMENT AND PLUMBNESS DURING PROGRESS OF WORK.
8. SUPPORT TOP OF ALL WALLS WITH L3x3x$\frac{3}{16}$" x 4" LONG GALV. ANGLES BOTH SIDES WELDED TO U/S STEEL DECK AT 6'-0" O.C. MAX SPACING. LEAVE ½" DEFLECTION GAP AT TOP
9. ALL MASONRY CONNECTORS AND TIES ARE TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE ON DRAWINGS.
10. ALL LINTELS SUPPORTED ON MASONRY SHALL BEAR ON 2 COURSES OF SOLID MASONRY WITH A MINIMUM BEARING LENGTH OF 8" UNLESS NOTED OTHERWISE ON DRAWINGS.
11. ALL GROUT TO BE 25MPa COURSE GROUT WITH ⅜" PEA GRAVEL AS PER CSA STANDARD A179 (LATEST EDITION)
12. CLEAN MASONRY AS FOLLOWS:
    - 12.1 RAKE AND REPLACE DEFECTIVE MORTAR JOINTS.
    - 12.2 ON COMPLETION, REMOVE EXCESS MORTAR, SMEARS, AND STAINS
    - 12.3 SCRUB SURFACES TO BE CLEANED WITH SUITABLE NON-ACID CLEANING SOLUTIONS.
    - 12.4 FINISHED PRODUCT TO HAVE UNIFORM CLEAN APPEARANCE.
13. PROVIDE REINFORCED CORES ON EACH SIDE OF CONTROL JOINTS AND ON EACH SIDE OF WINDOW AND DOOR OPENINGS. LOCATE AT SECOND CORE FROM WINDOW OR DOOR OPENING IN ORDER THAT VERTICAL REINFORCING BAR DOES NOT INTERFERE WITH STEEL LINTEL BEAM ABOVE.
14. PROVIDE VERTICAL WELDED REBAR DOWELS x 24" LG. TO TOP FLANGE OF ALL 'W' BEAMS/LINTELS SUPPORTING MASONRY (MATCH SIZE & SPACING OF BLOCK REINFORCING).

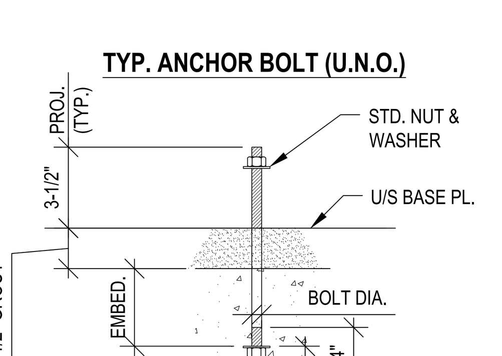
## REINFORCING STEEL:

1. LAP ALL REINFORCING AS PER RSIO MANUAL, CLASS "B" TENSION LAP.
2. INTERSECTING REBAR SHALL BE TIED TOGETHER USING NO.16 U.S. WIRE GAUGE OR HEAVIER ANNEALED WIRE OR AN APPROVED PATENTED TYING SYSTEM.
3. ADEQUATELY SUPPORT REINFORCEMENT WITH PLASTIC CHAIRS, SPACERS OR HANGERS AND SECURE AGAINST DISPLACEMENT WITHIN THE TOLERANCES INDICATED IN LATEST EDITION CSA STANDARD A23.1. CONCRETE BRICKS MAY BE USED IN PLACE OF PLASTIC CHAIRS FOR SLABS ON GRADE.
4. NOTIFY THE CONSULTANT FOR SITE REVIEW OF REINFORCEMENT 24 HOURS PRIOR TO THE PLACEMENT OF CONCRETE.
5. MINIMUM COVER TO REINFORCEMENT SHALL BE 3" WHEN CONCRETE IS CAST AGAINST SOIL AND 1½" FOR ALL OTHER APPLICATIONS. (UNLESS NOTED OTHERWISE)

## STRUCTURAL STEEL:

1. ALL WORK SHALL CONFORM TO CSA STANDARD S16 (LATEST EDITION) "LIMIT STATES DESIGN OF STEEL STRUCTURES". CONTRACTOR TO FABRICATE TO APPROVED SHOP DWGS. ONLY.
2. STEEL SHALL CONFORM TO CSA STANDARD G40.20 "GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL" AND TO CSA STANDARD G40.21 "STRUCTURAL QUALITY STEELS" TO THE FOLLOWING GRADES:
   - HSS AND FLANGE SECTIONS - 350W (50 ksi)
   - ALL OTHER HOT ROLLED SHAPES - 300W (44W)
   - PLATES NOT GREATER THAN 1 1/2" THICKNESS - 300W (44W)
3. STRUCTURAL BOLTS TO BE ASTM F3125/F3125M LATEST EDITION. HEAT TREATED 120/105 KSI MIN. TENSILE STRENGTH. COMPLETE WITH HARDENED WASHERS AND HEAVY HEX NUTS.
4. ALL ANCHOR RODS TO ASTM-F1554 GRADE 50. ALL EXTERIOR ANCHOR RODS TO BE HOT-DIP GALVANIZED.

**TYP. ANCHOR BOLT (U.N.O.)**




5. ALL WELDING TO BE DONE BY A CONTRACTOR CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA-W47.1-03 CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES, DIVISION 1 OR 2. CONTRACTOR TO SUBMIT CURRENT CWB LETTER OF VALIDATION TO ENGINEER PRIOR TO PROCEEDING WITH ANY STEELWORK.
6. ALL ELECTRODES SHALL BE E70XX CONFORMING TO CSA STANDARD W48.
7. ALL WELDING TO BE METAL-ARC TO CSA-W59-18 - WELDED STEEL CONSTRUCTION. (METAL-ARC WELDING). ALL WELDS SHALL BE CONTINUOUS UNLESS NOTED. MINIMUM SIZE OF FILLET WELD TO BE $\frac{3}{16}$" (5mm) OR AS REQ'D BY MATERIAL THICKNESS OR PARTS JOINED.
8. CLEAN, PRIME AND FINISH PAINT ALL NEW STEEL WORK AS PER THE FOLLOWING:
   - 8.1. SHOP CLEAN ALL STEEL ACCORDING TO STEEL STRUCTURAL PAINTING COUNCIL SURFACE PREPARATION No. 6, "COMMERCIAL BLAST CLEANING", OR PREPARATION No.3 "POWER WIRE BRUSH CLEANING"
   - 8.2. SAME DAY AS CLEANED, APPLY ONE SHOP COAT OF DEVGUARD #4160 GREY OXIDE RUST INHIBITIVE PRIMER TO A DRY FILM THICKNESS OF 2.0 TO 2.4 MILS.
   - 8.3 FOR EXPOSED STEEL IN THE SHOP, APPLY TWO FINISH COATS OF DEVGUARD ALKYD SEMI-GLOSS ENAMEL #4306 SERIES, 1.5 TO 2 MILS DRY FILM THICKNESS, COLOURS BY OWNER.
   - 8.4 AFTER ERECTION, CLEAN ALL SURFACES. TOUCH-UP ANY DAMAGED OR UNPAINTED AREAS WITH PRIMER AND TWO FINISH COATS.
9. DO NOT PAINT CONNECTION SURFACES OR SURFACES TO BE WELDED.
10. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
    - 10.1 ALL SHOP DRAWINGS SHALL BEAR A SEAL OF A REGISTERED PROFESSIONAL ENGINEER FROM THE PROVINCE OF ONTARIO.
    - 10.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS.
    - 10.3 UNLESS OTHERWISE DETAILED OR SPECIFIED, BEAM CONNECTIONS SHALL BE DESIGNED TO RESIST THE FULL BENDING CAPACITY OF THE MEMBER IN ITS FULLY BRACED CONDITION FOR THE APPROPRIATE SPAN AS LISTED IN THE CISC HANDBOOK BEAM LOAD TABLES.
    - 10.4 CONNECTIONS SHALL CONFORM TO THE DETAILS IN THE CISC HANDBOOK.
    - 10.5 NON-STANDARD CONNECTIONS AND CONNECTIONS TO EXISTING STRUCTURAL MEMBERS SHALL BE DESIGNED AND BEAR THE SEAL OF A PROFESSIONAL ENGINEER.
    - 10.6 BEAM END CONNECTION DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO SERVE AS A GUIDE ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL FINAL DIMENSIONS.
11. BEAM END CONNECTION DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO SERVE AS A GUIDE ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL FINAL DIMENSIONS.
12. WHEN NON-AIRTIGHT HSS SECTIONS ARE EXPOSED TO THE WEATHER OR TO TEMPERATURE CHANGES THAT CAN CAUSE INTERIOR CONDENSATION, THE STEEL CONTRACTOR SHALL ENSURE ALL HSS SECTIONS HAVE TWO WEEP HOLES AT THE BASE OF COLUMN ABOVE THE BASEPLATE. THE WEEP HOLES SHALL BE LOCATED IN THE CENTER OF THE HSS FACE (ON OPPOSITE SIDES). FOR HSS SIZES 3" DIAMETER (OR SQUARE) AND LESS, PROVIDE 5/16" DIAMETER HOLE. FOR ALL OTHER SIZES PROVIDE 5/8" DIAMETER HOLE. VENT/WEEP HOLE SIZE AND LOCATION FOR HOT-DIP GALVANIZING SHALL BE AS PER MANUFACTURER AND SHOULD BE COORDINATED WITH THE STEEL FABRICATOR. TOP VENT HOLES TO BE PLUGGED UPON COMPLETION OF HOT-DIP GALVANIZING U.N.O.
13. ALL EXTERIOR STEEL THAT IS EXPOSED TO WEATHER INCLUDING HANDRAILS AND GUARDS SHALL BE HOT-DIP GALVANIZED. THE CONTRACTOR SHALL ENSURE THE STEEL IS GALVANIZED TO EXPOSED STEEL FINISH STANDARDS (UNIFORM VISUAL APPEARANCE, FREE OF IMPERFECTIONS).
14. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS PER VERTICAL LINE IN EACH CONNECTED PIECE AND BE DESIGNED AS BEARING CONNECTIONS U.N.O.
15. U.N.O. COLUMN CAP PLATES SHALL BE ¼" THICK AND COLUMN BASE PLATES SHALL BE ½" MINIMUM THICK.
16. DESIGN DRAWINGS INCLUDE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. SEE ALSO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILS. WHERE ELEVATIONS, ROOF SLOPES, ETC. ARE SHOWN ON THE STRUCTURAL DRAWINGS, THEY MUST BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS.
17. MISCELLANEOUS MATERIALS AND ACCESSORIES ASSOCIATED WITH GOOD PRACTICE THAT ARE NOT SHOWN SHALL BE PROVIDED.
18. U.N.O. DO NOT OVERSIZE HOLES IN STEEL TO FIT ANY ANCHOR LOCATIONS, FOR COLUMN BASE PLATE HOLES, UNLESS NOTED OTHERWISE ON DRAWINGS, SEE TABLE BELOW.

**HOLE SIZES FOR ANCHOR BOLTS**

| BOLT SIZE (in.) | HOLE SIZE (in.) |
|---|---|
| ¾" UP TO INCLUDING 1" | DIAMETER + $\frac{5}{16}$" |
| OVER 1" UP TO INCLUDING 2" | DIAMETER + ½" |
| OVER 2" | DIAMETER + 1" |

19. PROVIDE MINIMUM L2x2x$\frac{3}{16}$" TRIMMER ANGLE (U.N.O. ON DRAWING) FOR STEEL DECK SUPPORT TYPICAL AROUND PERIMETER OF BUILDING, WELDED TO OWSJ AND/OR STEEL BEAM.
20. THE CONTRACTOR WILL EMPLOY A QUALIFIED PERSON TO INSPECT THE CONNECTIONS, INCLUDING BOLT TENSION AND WELDING, IN ACCORDANCE WITH CSA S16:19 SECTIONS 23 AND 30.

## STEEL DECK:

1. STEEL DECKING SHALL CONFORM TO CAN/CSA-S136.
2. STEEL DECKING SHALL CONFORM TO CSSBI SPECIFICATION 10M MINIMUM GRADE 230 ZINC COATED STRUCTURAL QUALITY STEEL FOR ROOF AND FLOOR DECK. BASE STEEL NOMINAL THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUM REQUIREMENTS ONLY.
3. INTERIOR EXPOSURE DECK SHALL BE ZINC COATED WIPE COAT ZF075 FOR FLOORS AND FOR ROOFS. EXTERIOR EXPOSURE DECK SHALL BE Z275 ZINC COATED U.N.O.
4. STEEL DECKING SHALL BE INSTALLED SUCH THAT SHEETS ARE SET FOR A MINIMUM OF THREE SPANS CONTINUOUS U.N.O.. LAPS OF DECKING SHALL BE LIMITED OR DETAILED TO PREVENT UNDUE VERTICAL DEFORMATIONS AT THE END OF THE DECK DUE TO END ROTATIONS.
5. SEE DRAWINGS FOR DECK THICKNESS OR DESIGN LOADS.
6. WHERE DECK IS CALLED UP ON DRAWINGS, ALTERNATES MUST BE THE SAME DEPTH, BE EQUIVALENT FOR DEFLECTIONS, VERTICAL LOAD, AND SHEAR CAPACITY, AND BE PRE-APROVED.
7. SUBMIT SHOP DRAWINGS INDICATING THE DECK SPANS, THICKNESS, PROFILES, AND DETAILS. WHERE THE DECK THICKNESS AND CONNECTIONS ARE NOT SHOWN ON THE DRAWINGS, THE FABRICATOR SHALL DESIGN THE DECK AND CONNECTIONS FOR THE VERTICAL LOADS AND THE SHEAR/DIAPHRAGM LOADS NOTED ON THE DRAWINGS AND HAVE THE SHOP DRAWINGS SEALED BY THE CONTRACTOR'S SPECIALTY STRUCTURAL ENGINEER.
8. FASTENINGS - MINIMUM REQUIREMENTS U.N.O. ON DRAWINGS
   - A. SIDE LAPS MECHANICALLY FASTENED (CLINCHED) AT NOT MORE THAN 12" c/c
   - B. ¾" Ø FUSION WELDS AT DECK SUPPORTS SHALL BE AT 12" c/c ALONG SIDE EDGES AND AT EVERY OTHER FLUTE
10. REMOVE WATER BETWEEN THE DECK AND SUPPORTING STEEL BEFORE WELDING DECK.
11. IF NOT SHOWN OTHERWISE, ALL EDGES OF STEEL DECKING SHALL BE SUPPORTED ON CONTINUOUS L3x3x$\frac{3}{16}$" TRIMMER ANGLE (AROUND PERIMETER OF BUILDING) WELDED TO OWSJ AND/OR STEEL BEAM.
12. SEE ALSO MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR ALL OPENINGS IN DECK.
13. STEEL DECK TO BE DESIGNED FOR A MINIMUM DIAPHRAGM SHEAR OF 3.5kN/m U.N.O.

## OPEN WEB STEEL JOIST SYSTEMS:

1. SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN AND REGISTERED IN ONTARIO SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.
2. ROOF DECK TO BE WELDED EVERY SECOND FLUTE WITH 19mm Ø (¾") PLUG WELD OVER EVERY BEAM OR JOIST, OR EVERY 300mm (12") WHEN FLUTES ARE PARALLEL TO SUPPORTS. WELDS TO BE 150mm (6") O.C. WITHIN 1.8m OF CORNERS.
3. U.N.O. ON PLAN (EXCEPT UNDER SNOW DRIFT) ALL JOISTS SHALL BE EQUALLY SPACED BETWEEN GRIDS.
4. DESIGN OF JOISTS AND BRIDGING SHALL CONFORM TO THE REQUIREMENTS OF CSA-S16.1, CLAUSE 16. JOISTS SHALL BE DESIGNED FOR THE SMALLER OF: LIVE LOAD DEFLECTION OF L/260 OR TOTAL LOAD DEFLECTION OF L/180, WHICHEVER GOVERNS. BRIDGING HAS NOT BEEN SHOWN ON PLAN FOR CLARITY.
5. ALL JOISTS AT COLUMNS, AND WHERE NOTED "TJ" ON PLAN, SHALL BE TIE JOISTS I.E. EXTEND BOTTOM CHORD AND CONNECT TO COLUMN. DESIGN TIE JOISTS FOR AN ADDITIONAL 25 kN COMPRESSION LOAD IN BOTTOM CHORDS.
6. WHERE JOISTS SPAN ON TO A COMMON BEAM FROM TWO SIDES, THE JOISTS CAN BE PLACED END TO END OR SIDE BY SIDE ON THE BEAM SO AS TO BEAR DIRECTLY OVER THE WEB. IF THE JOISTS ARE DIFFERENT SPANS AND/OR LOADS ARE PLACED END TO END, THEN THE BEAM SHALL BE RESTRAINED FROM TWISTING BY THE ADDITION OF AN L 1½" x 1½" x ⅛" NEAR THE CENTRE OF THE BEAM FROM THE JOIST BOTTOM CHORD TO THE BEAM BOTTOM FLANGE.
7. DESIGN OWSJ FOR ADDITIONAL 500lb VERTICAL POINT LOADS APPLIED AT ANY (3) ADJACENT PANEL POINTS FOR ALL JOISTS.
8. WHERE ROOF FRAMING IS SHOWN FOR MECHANICAL OPENINGS, DESIGN JOISTS SO FRAMING BEARS AT JOIST PANEL POINTS OR ACCOMMODATE CHORD FLEXURE IN DESIGN.
9. ALL OWSJ TO HAVE BUILDING SERVICES PASS THROUGH THEM. WEB MEMBERS OF ADJACENT OWSJ TO LINE UP TO ACCOMMODATE CONTINUOUS PENETRATION OF SERVICES.
10. WELDING SHALL CONFORM TO CSA W59.
11. OWSJ TO BE PAINTED SHALL BE CLEANED AND SHALL RECEIVE ONE COAT OF SHOP PRIMER IN ACCORDANCE WITH CAN/CSA-S16.
12. OWSJ TO BE EXPOSED IN FINISHED WORK SHALL BE PAINTED WITH SHOP PRIMER MEETING THE REQUIREMENTS OF CAN/CSA-S16. CLEANING, PREPARATION OF STEEL AND THE PAINT PRODUCT SHALL BE COMPATIBLE WITH THE REQUIREMENTS OF FINISHED PAINTING AS SPECIFIED IN ARCHITECTURAL FINISHES. REFER TO THE SPECIFICATIONS.
13. BOTTOM CHORD EXTENSIONS (B.C.E.) ARE EXTENSIONS OF THE BOTTOM CHORD WHICH TRANSMIT AN AXIAL FORCE TO EITHER A COLUMN, BEAM BOTTOM FLANGE, JOIST GIRDER BOTTOM CHORD OR WALL. THE EXTENSION MAY BE EITHER FLAT OR SLOPED. SEE PLANS, SCHEDULES, AND DETAILS FOR AXIAL FORCES.

## DESIGN LOADS: (Welland)

*LATERAL LOAD RESISTANCE SYSTEMS (LLRS)*
LLRS PRIMARILY CONSISTS OF A NETWORK OF STEEL MOMENT FRAMES AND/OR BRACING CONNECTED BY A DIAPHRAGM OF A METAL ROOF SYSTEM OR HOLLOW-CORE SLAB

**DEAD LOAD:**

| SUPERIMPOSED GYMNASIUM ROOF LOADS: | | SUPERIMPOSED H.C. SLAB ROOF LOADS: | | SUPERIMPOSED H.C. SLAB FLOOR LOADS: | |
|---|---|---|---|---|---|
| 3-PLY ROOF MEMBRANE | = 3 psf | 1" CONC. TOPPING | = 13 psf | 1" CONC. TOPPING | = 13 psf |
| INSULATION | = 3 psf | INSULATION | = 2 psf | 10" H.C. SLAB | = 74 psf |
| STEEL DECK | = 3 psf | 10" H.C. SLAB | = 74 psf | DROP CEILING | = 4 psf |
| OWSJ | = 3 psf | DROP CEILING | = 4 psf | PARTITION ALLOWANCE | = 21 psf |
| MECH./ELEC. ALLOWANCE | = 5 psf | MECH./ELEC. ALLOWANCE | = 5 psf | MECH./ELEC. ALLOWANCE | = 6 psf |
| TOTAL | = 17 psf | TOTAL | = 99 psf | TOTAL | = 117 psf |

**OCCUPANCY LOAD:**
MAIN FLOOR = 100 psf (NOTE: LIVE LOAD REDUCTION FACTORS APPLIED PER OBC 2012 4.1.5.8.)
SECOND FLOOR = 50 psf
ROOF = 21 psf
EXITS/STAIRS = 100 psf

**SNOW LOAD:**
$S = I_S [S_s (C_b C_w C_s C_a) + S_r]$
$S_s = 42$ psf   $S_r = 9$ psf   $I_S = 1.15$ (ULS) 0.9 (SLS)
$C_b = 0.8$
$C_w = 1.0$
$C_s = 1.0$
$C_a$ = (SEE PLAN VIEWS FOR SNOW ACCUMULATION)

**WIND LOAD:**
$p = I_W\, q\, C_e\, C_t\, C_p\, C_g$ (AS REQUIRED)
$q_{1/10} = 7$ psf   $I_W = 1.15$ (ULS) 0.7 (SLS)
$q_{1/50} = 9$ psf
$C_e = 0.9$
$C_t = 1.0$
$C_p C_g$ = (SEE PLAN VIEWS FOR ADDITIONAL LOADING) ASSUME 2.0 FOR ALL OTHERS

**SEISMIC:**
$V = \frac{S(T_A)\, M_V\, I_E\, W}{R_d\, R_0}$

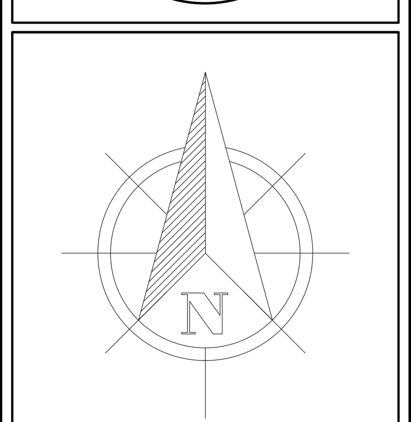
| | |
|---|---|
| $S_A(0.2) = 0.466$ | $I_E = 1.15$ |
| $S_A(0.5) = 0.396$ | $M_V = 1.0$ |
| $S_A(1.0) = 0.224$ | $T_A = 0.5s$ |
| $S_A(2.0) = 0.103$ | $R_d = 1.5$ |
| $S_A(5.0) = 0.027$ | $R_o = 1.5$ |
| $S_A(10.0) = 0.0080$ | W = DEAD + 25% BASIC SNOW |
| PGA = 0.3g | |

*SEISMIC RESTRAINMENT:*
AS PER 4.1.8.17. $I_E F_A S_A(0.2) = 0.466$ (>0.35) THEREFORE MECHANICAL AND ELECTRICAL CONTRACTOR MUST SUBMIT SEALED PRE-ENGINEERED SEISMIC RESTRAINT DRAWINGS, AND/OR LETTER (FROM REGISTERED PROFESSIONAL ENGINEER FROM THE PROVINCE OF ONTARIO) TO ENGINEER-OF-RECORD FOR APPROVAL. THIS APPLIES TO ALL MECHANICAL UNITS, PIPING, CABLE TRAYS, LIGHTING, FIXTURES, etc. IN ACCORDANCE WITH 4.1.8.17.

**SOIL:** DESIGN ALLOWABLE BEARING PRESSURE IS 3100 psf (SLS) 4700 psf (ULS) AND THE SITE CLASS IS 'E'. SEE HAM-24001098-A0 FOR GEOTECH REPORT BY EXP SERVICES INC.

## PRECAST PRE-STRESSED CONC. SLABS:

1. ALL PRECAST PRE-STRESSED CONCRETE FLOOR SLABS SHALL BE DESIGNED, FABRICATED AND INSTALLED IN ACCORDANCE WITH CSA-A23.4 AND CSA-A23.3.
2. ALL PRE-CAST SLAB DETAILS SHOWN ON STRUCTURAL DRAWINGS ARE PRELIMINARY. A PRE-CAST DESIGNER/MANUFACTURER MUST BE RETAINED BY CONTRACTOR TO PROVIDE FINAL PRE-CAST DESIGN AND SUBMIT SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO.
3. ALL WELDING WORK SHALL BE IN ACCORDANCE WITH CSA-W59 FOR WELDING TO STRUCTURAL STEEL AND CSA W88 FOR WELDING REINFORCEMENT.
4. MANUFACTURERS OF PRECAST PRE-STRESSED CONCRETE SLABS TO BE CERTIFIED BY CSA REQUIREMENTS CSA-A23.4/A251.
5. PRECAST PRE-STRESSED CONCRETE SLABS SHALL BE DESIGNED TO CSA-A23.3 IN ACCORDANCE WITH APPLICABLE CODES FOR LOADING AND LOADING INFORMATION PROVIDED ON DRAWINGS. SYSTEM TO PROVIDE FULL DIAPHRAGM ACTION.
6. MANUFACTURER TO CO-ORDINATE SIZE AND LOCATIONS OF ALL OPENINGS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND WITH APPLICABLE TRADE CONTRACTORS. STEEL FRAMING AROUND ROOF OPENINGS (AS REQUIRED) SHALL BE DESIGNED AND SUPPLIED BY THE ROOF MANUFACTURER.
7. ADDITIONAL LOADING FROM MECHANICAL EQUIPMENT ON ROOF MEMBERS SHALL BE TAKEN INTO ACCOUNT FOR ROOF DESIGN.
8. STEEL BEAMS LOADED BY PRECAST SLABS ON ONE SIDE ONLY ARE TO BE FULLY SHORED UNTIL SLAB JOINT REINFORCING HAS BEEN WELDED TO BOTTOM FLANGE OF BEAM AND SLAB GROUT HAS FULLY CURED.
9. MANUFACTURER TO SUBMIT SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO FOR APPROVAL PRIOR TO FABRICATION. ALL PERTINENT INFORMATION TO BE PROVIDED ON SHOP DRAWINGS INCLUDING CAMBER, FINISHES, REINFORCING, ETC.
10. CONCRETE TOPPING SPECIFICATION SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON DRAWINGS):
    - 10.1. ONE-INCH THICK SELF-LEVELING CONCRETE
    - 10.2. MINIMUM 20MPa WITH 22 INCH TO 30 INCH SLUMP
    - 10.3. 4% TO 8% AIR ENTRAINMENT
    - 10.4. SELF-CONSOLIDATING, SMOOTH SURFACE, FLOOR FINISH AS PER ARCHITECTURAL
    - 10.5. ALL CONCRETE IN ACCORDANCE WITH 23.1.14

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| REV. | ISSUED FOR: | YYYY/MM/DD |
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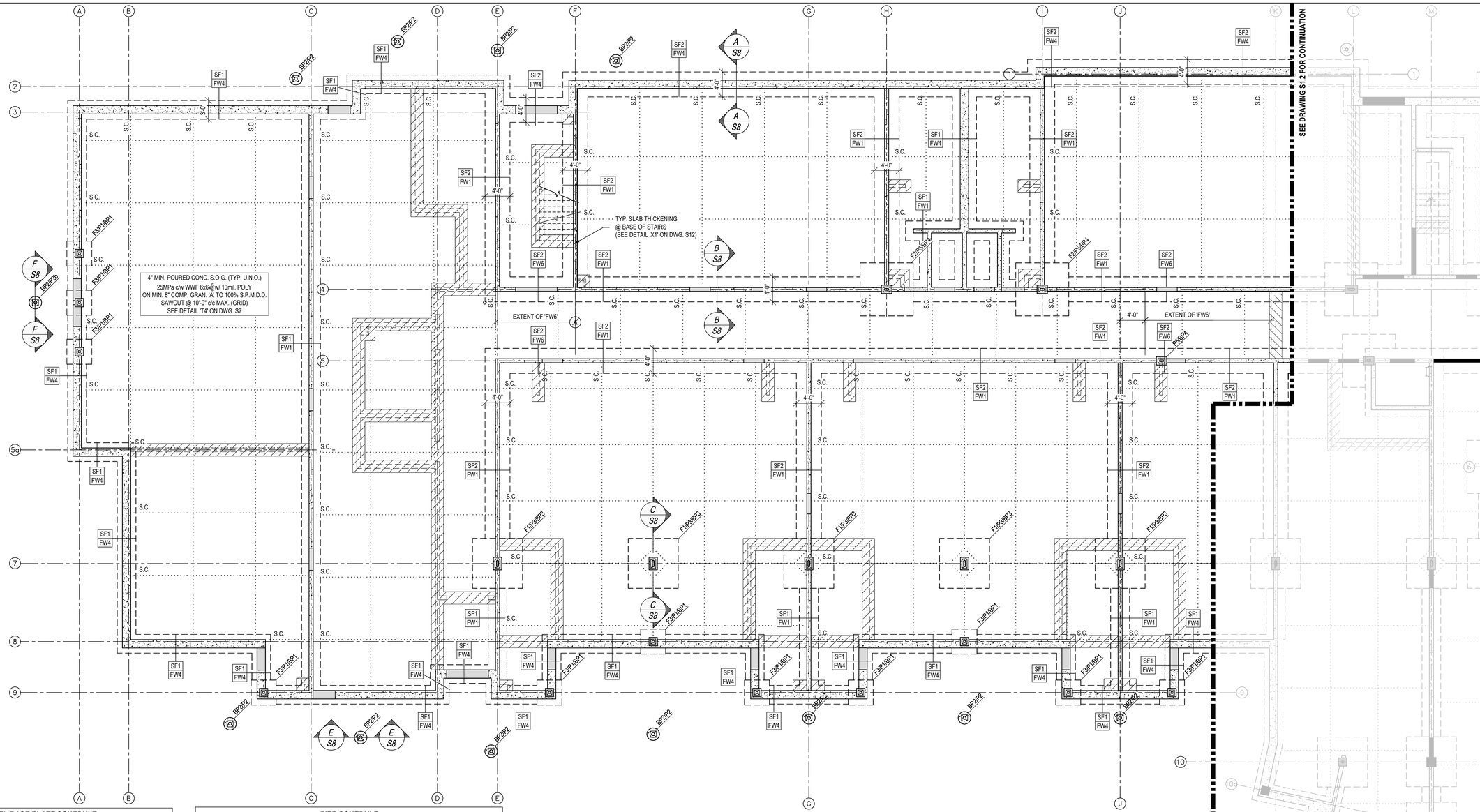
| 0 | CLASS A ESTIMATE/ | 2025/11/14 |
| | PERMIT/CLIENT REVIEW | |
| 1 | PERMIT | 2026/02/13 |
| 2 | TENDER | 2026/02/20 |
| 3 | TENDER | 2026/03/11 |
| 4 | TENDER | 2026/03/16 |

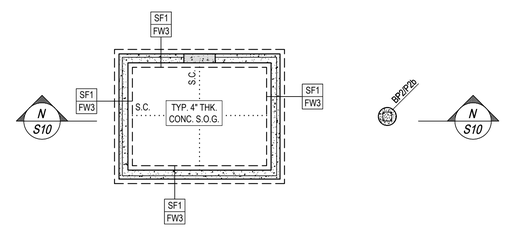
CLIENT:
**DSBN**
**191 CARLTON ST.**
**ST. CATHARINES, ON**
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**GENERAL NOTES & DRAWING LIST**

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | MAY/2025 |
| DRAWN BY: | TA |
| DESIGNED BY: | PW/BR |
| CHECKED BY: | ML/JH |
| SCALE: | AS SHOWN |
| DWG. S0 | REV. 4 |







## STEEL BASE PLATE SCHEDULE

| MARK | SIZE | ANCHOR BOLTS | | COMMENTS |
|---|---|---|---|---|
| | | SIZE | EMBEDMENT | |
| BP1 | 10" x 10" x 3/4" | (4) - 3/4"Ø | 12" | SEE PLAN |
| BP2 | 12" x 12" x 3/4" | (4) - 3/4"Ø | 12" | SEE PLAN |
| BP3 | 10" x 1'-6" x 3/4" | (4) - 3/4"Ø | 12" | SEE PLAN |
| BP4 | 10" x 1'-2" x 3/4" | (4) - 3/4"Ø | 12" | SEE PLAN |
| BP5 | 12" x 10" x 3/4" | (4) - 3/4"Ø | 12" | SEE PLAN |

**NOTES:**
1. SEE DETAIL 1 ON DWG. S8 FOR TYPICAL BASE PLATE DETAIL.
2. ALL COLUMNS CENTERED ON BASE PLATE (U.N.O.)

## PIER SCHEDULE

| MARK | SIZE | T/O PIER EL. | REINFORCEMENT | | COMMENTS |
|---|---|---|---|---|---|
| | | | *VERTICAL* | *HORIZONTAL* | |
| P1 | 1'-4" x 1'-4" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |
| P2 | 2'-0"Ø | -9" B.F.F. | (8)-15M | 10M TIES @ 10" c/c | SEE PLAN |
| P2b | 2'-0"Ø | +6" A.F.F. | (8)-15M | 10M TIES @ 10" c/c | SEE PLAN |
| P3 | 1'-4" x 2'-0" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |
| P4 | 1'-6" x 1'-6" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |
| P5 | 1'-4" x 1'-8" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |
| P6 | 1'-4" x 1'-6" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |

## FOOTING SCHEDULE

| MARK | SIZE | REINFORCEMENT | | COMMENTS |
|---|---|---|---|---|
| | | *LONG.* | *TRANSVERSE* | |
| SF1 | 3'-0" x 12" DP. | (4)-15M CONT. | 15M @ 12" c/c | SEE PLAN |
| SF2 | 4'-0" x 14" DP. | (6)-15M CONT. | 15M @ 10" c/c | SEE PLAN |
| F1 | 8'-0" x 8'-0" x 16" DP. | (8)-25M | (8)-25M | SEE PLAN |
| F2 | 8'-6" x 8'-6" x 18" DP. | (8)-25M | (8)-25M | SEE PLAN |
| F3 | 4'-0" x 4'-0" x 14" DP. | (6)-15M | (6)-15M | SEE PLAN |
| F4 | 8'-0" x 16'-0" x 16" DP. | (8)-25M | (16)-25M | SEE PLAN |

**NOTES:**

**1. U/S FOOTING ELEVATION TO BE 4'-0" BELOW F.F.E. (U.N.O.)**

## FOUNDATION WALL SCHEDULE

| MARK | SIZE | REINFORCEMENT | | COMMENTS |
|---|---|---|---|---|
| | | *VERTICAL* | *HORIZONTAL* | |
| FW1 | 8" WIDE | 15M @ 16" c/c | 15M @ 16" c/c | 1 LAYER ON ℄ OF WALL |
| FW2 | 10" WIDE | 15M @ 12" c/c | 15M @ 16" c/c | 1 LAYER ON ℄ OF WALL |
| FW3 | 12" WIDE | 15M @ 16" c/c (E.F.) | 15M @ 16" c/c (E.F.) | (2) LAYERS w/ 2" COVER (EACH SIDE) |
| FW4 | 16" WIDE | 15M @ 16" c/c (E.F.) | 15M @ 16" c/c (E.F.) | (2) LAYERS w/ 2" COVER (EACH SIDE) |
| FW5 | 20" WIDE | 15M @ 12" c/c (E.F.) | 15M @ 16" c/c (E.F.) | (2) LAYERS w/ 2" COVER (EACH SIDE) |
| FW6 | 8" WIDE | 15M @ 6" c/c | 15M @ 16" c/c | 1 LAYER ON ℄ OF WALL |

**NOTES:**

1. ALL FOUNDATION WALLS AT BUILDING EXTERIOR TO HAVE 3" RIGID INSULATION EXTENDING 2'-0" BELOW SLAB (ALONG UNDERSIDE OF SLAB AND ALONG WALL INTERIOR) AS PER ARCH. DRAWINGS.

# PARTIAL FOUNDATION PLAN

*SCALE: 1/8" = 1'-0"*

## DRAWING NOTES:

1. *SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL TYPES/ LOCATIONS, ETC.*
2. *SEE DRAWING S0 FOR GENERAL NOTES.*
3. *ALL STEEL STUD FRAMING DESIGNED BY STEEL STUD SUPPLIER. SUBMIT STEEL STUD SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER IN THE PROVINCE OF ONTARIO TO HALLEX ENGINEERING FOR APPROVAL.*

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
March 16, 2026
250406
PROVINCE OF ONTARIO

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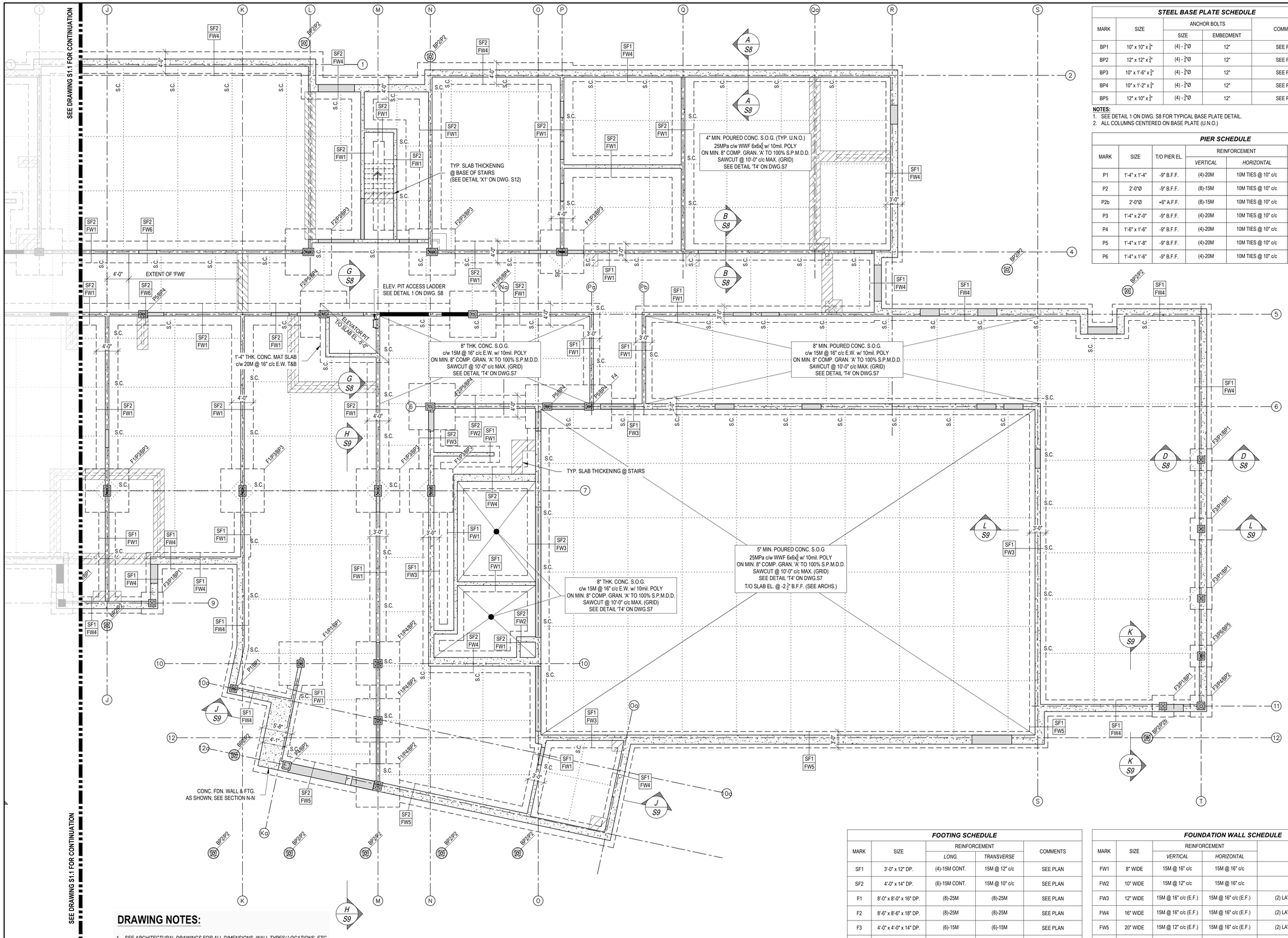
|---|---|---|
| 0 | CLASS A ESTIMATE/ PERMIT/CLIENT REVIEW | 2025/11/14 |
| 1 | PERMIT | 2026/02/13 |
| 2 | TENDER | 2026/02/20 |
| 3 | TENDER | 2026/03/11 |
| 4 | TENDER | 2026/03/16 |

CLIENT:
**DSBN**
**191 CARLTON ST.**
**ST. CATHARINES, ON**
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**PARTIAL FOUNDATION PLAN & SCHEDULES**

| | |
|---|---|
| JOB NUMBER: | **250406** |
| DATE: | **MAY/2025** |
| DRAWN BY: | **TA** |
| DESIGNED BY: | **PW/BR** |
| CHECKED BY: | **ML/JH** |
| SCALE: | **AS SHOWN** |
| DWG. | **S1.1** |
| REV. | **4** |




## DRAWING NOTES:

1. *SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL TYPES/ LOCATIONS, ETC.*
2. *SEE DRAWING S0 FOR GENERAL NOTES.*
3. *ALL STEEL STUD FRAMING DESIGNED BY STEEL STUD SUPPLIER. SUBMIT STEEL STUD SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER IN THE PROVINCE OF ONTARIO TO HALLEX ENGINEERING FOR APPROVAL.*

# PARTIAL FOUNDATION PLAN

*SCALE: 1/8" = 1'-0"*

### STEEL BASE PLATE SCHEDULE

| MARK | SIZE | ANCHOR BOLTS | | COMMENTS |
|---|---|---|---|---|
| | | SIZE | EMBEDMENT | |
| BP1 | 10" x 10" x 1/2" | (4) - 3/4"Ø | 12" | SEE PLAN |
| BP2 | 12" x 12" x 1/2" | (4) - 3/4"Ø | 12" | SEE PLAN |
| BP3 | 10" x 1'-6" x 3/4" | (4) - 3/4"Ø | 12" | SEE PLAN |
| BP4 | 10" x 1'-2" x 3/4" | (4) - 3/4"Ø | 12" | SEE PLAN |
| BP5 | 12" x 10" x 1/2" | (4) - 3/4"Ø | 12" | SEE PLAN |

**NOTES:**
1. SEE DETAIL 1 ON DWG. S8 FOR TYPICAL BASE PLATE DETAIL.
2. ALL COLUMNS CENTERED ON BASE PLATE (U.N.O.)

### PIER SCHEDULE

| MARK | SIZE | T/O PIER EL. | REINFORCEMENT | | COMMENTS |
|---|---|---|---|---|---|
| | | | *VERTICAL* | *HORIZONTAL* | |
| P1 | 1'-4" x 1'-4" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |
| P2 | 2'-0"Ø | -9" B.F.F. | (8)-15M | 10M TIES @ 10" c/c | SEE PLAN |
| P2b | 2'-0"Ø | +6" A.F.F. | (8)-15M | 10M TIES @ 10" c/c | SEE PLAN |
| P3 | 1'-4" x 2'-0" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |
| P4 | 1'-6" x 1'-6" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |
| P5 | 1'-4" x 1'-8" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |
| P6 | 1'-4" x 1'-6" | -9" B.F.F. | (4)-20M | 10M TIES @ 10" c/c | SEE PLAN |

### FOOTING SCHEDULE

| MARK | SIZE | REINFORCEMENT | | COMMENTS |
|---|---|---|---|---|
| | | *LONG.* | *TRANSVERSE* | |
| SF1 | 3'-0" x 12" DP. | (4)-15M CONT. | 15M @ 12" c/c | SEE PLAN |
| SF2 | 4'-0" x 14" DP. | (6)-15M CONT. | 15M @ 10" c/c | SEE PLAN |
| F1 | 8'-0" x 8'-0" x 16" DP. | (8)-25M | (8)-25M | SEE PLAN |
| F2 | 8'-6" x 8'-6" x 18" DP. | (8)-25M | (8)-25M | SEE PLAN |
| F3 | 4'-0" x 4'-0" x 14" DP. | (6)-15M | (6)-15M | SEE PLAN |
| F4 | 8'-0" x 16'-0" x 16" DP. | (8)-25M | (16)-25M | SEE PLAN |

**NOTES:**

1. **U/S FOOTING ELEVATION TO BE 4'-0" BELOW F.F.E. (U.N.O.)**

### FOUNDATION WALL SCHEDULE

| MARK | SIZE | REINFORCEMENT | | COMMENTS |
|---|---|---|---|---|
| | | *VERTICAL* | *HORIZONTAL* | |
| FW1 | 8" WIDE | 15M @ 16" c/c | 15M @ 16" c/c | 1 LAYER ON ℄ OF WALL |
| FW2 | 10" WIDE | 15M @ 12" c/c | 15M @ 16" c/c | 1 LAYER ON ℄ OF WALL |
| FW3 | 12" WIDE | 15M @ 16" c/c (E.F.) | 15M @ 16" c/c (E.F.) | (2) LAYERS w/ 2" COVER (EACH SIDE) |
| FW4 | 16" WIDE | 15M @ 16" c/c (E.F.) | 15M @ 16" c/c (E.F.) | (2) LAYERS w/ 2" COVER (EACH SIDE) |
| FW5 | 20" WIDE | 15M @ 12" c/c (E.F.) | 15M @ 16" c/c (E.F.) | (2) LAYERS w/ 2" COVER (EACH SIDE) |
| FW6 | 8" WIDE | 15M @ 6" c/c | 15M @ 16" c/c | 1 LAYER ON ℄ OF WALL |

**NOTES:**

1. ALL FOUNDATION WALLS AT BUILDING EXTERIOR TO HAVE 3" RIGID INSULATION EXTENDING 2'-0" BELOW SLAB (ALONG UNDERSIDE OF SLAB AND ALONG WALL INTERIOR) AS PER ARCH. DRAWINGS.

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
March 16, 2026
250406
PROVINCE OF ONTARIO

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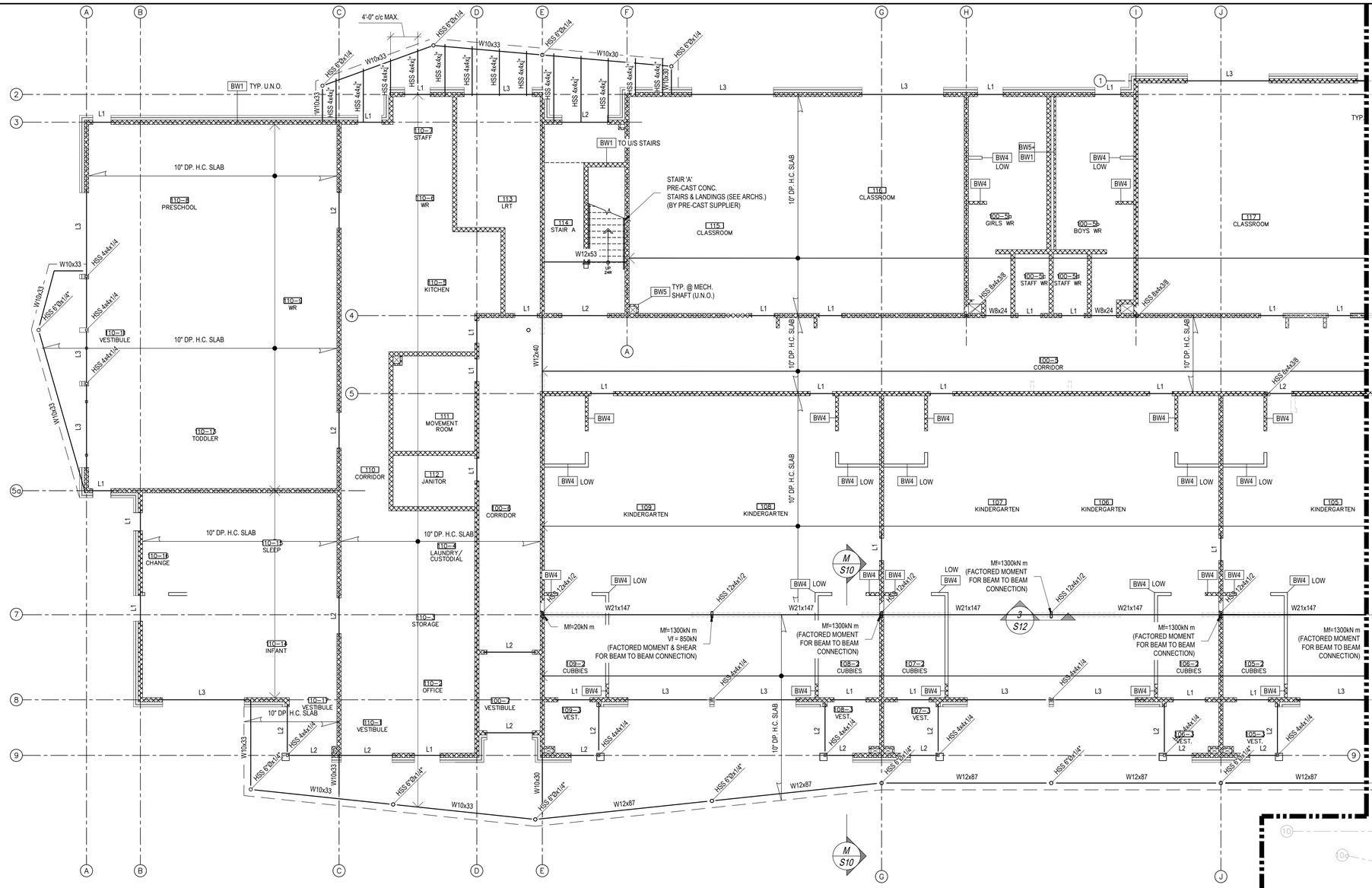
| 3 | TENDER | 2026/03/11 |
| 4 | TENDER | 2026/03/16 |

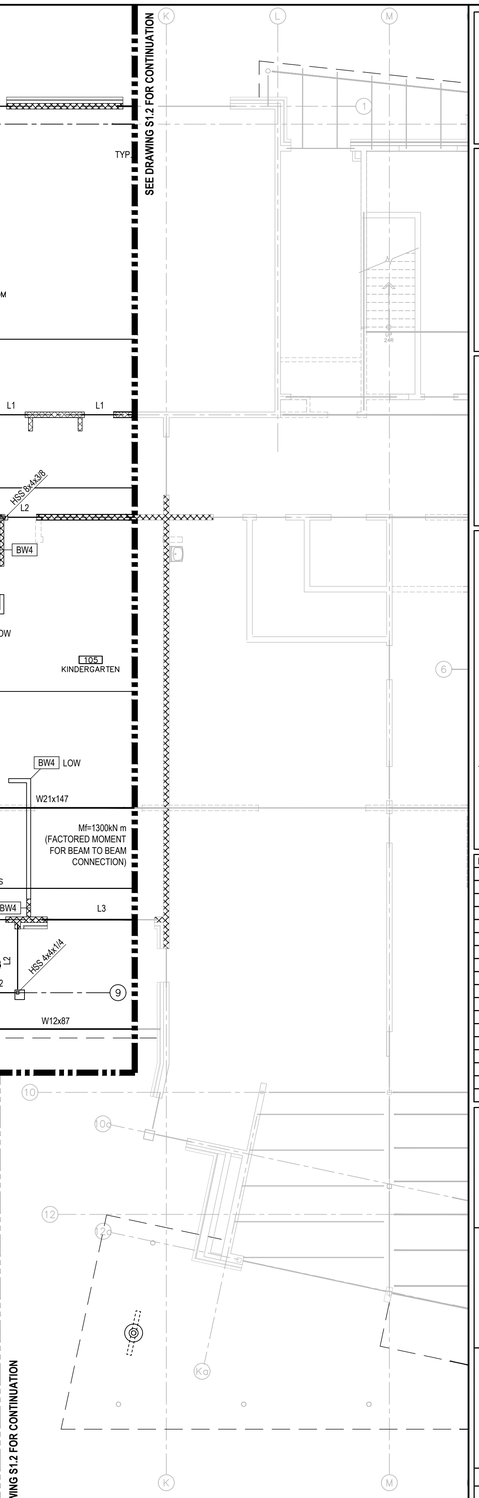
CLIENT:
**DSBN**
**191 CARLTON ST.**
**ST. CATHARINES, ON**
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**PARTIAL FOUNDATION PLAN & SCHEDULES**

| | |
|---|---|
| JOB NUMBER: | **250406** |
| DATE: | **MAY/2025** |
| DRAWN BY: | **TA** |
| DESIGNED BY: | **PW/BR** |
| CHECKED BY: | **ML/JH** |
| SCALE: | **AS SHOWN** |
| DWG. | **S1.2** |
| REV. | **4** |




## BLOCK WALL SCHEDULE

| MARK | SIZE | REINFORCEMENT | | NOTES |
|---|---|---|---|---|
| | | *VERTICAL* | *HORIZONTAL* | |
| BW1 | 8" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | TYPICAL BLOCK WALL (U.N.O.); SEE PLAN |
| BW2 | 10" | 15M @ 16" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | 30 MPa COMP. STRENGTH |
| BW3 | 12" | 15M @ 24" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | 30 MPa COMP. STRENGTH |
| BW4 | 6" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE | SEE PLAN |
| BW5 | 4" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE | SEE PLAN |
| BW6 | 12" | 25M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. & EVERY 8'-0" | 30 MPa COMP. STRENGTH 'ACUSTA-WALL'; SEE ARCHS. FOR ALL LOCATIONS |

MASONRY NOTES:
1. ALL HORIZONTAL TRUSS REINFORCING TO BE DURAWALL SUPER HEAVY DUTY (9/64") HOT-DIPPED GALVANIZED; OR APPROVED EQUAL.
2. ALL INTERIOR PARTITIONS TO BE LATERALLY SUPPORTED AT TOP (SEE ARCHS. FOR ALL WALL LOCATIONS, SIZES, ETC.)
3. PROVIDE VERTICAL BARS AT ALL INTERSECTIONS, WALLS, CORNERS, EACH SIDE OF OPENING OVER 3'-0" LG. FOR ALL MASONRY WALLS.
4. ALL STEEL EXPOSED TO EXTERIOR TO BE GALVANIZED.
5. SEE ARCHITECTURAL DWGS. FOR ALL OPENING LOCATIONS & WIDTHS.

## TYPICAL LINTELS FOR OPENINGS UP TO 4'-0" MAX. (U.N.O.)

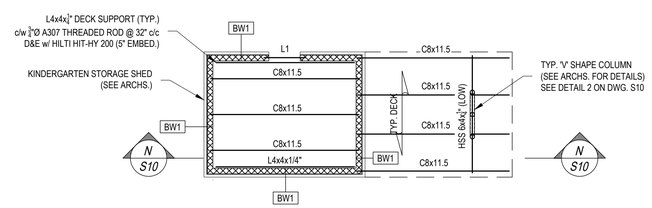
| BLOCK WALL SIZE | LINTEL | NOTES |
|---|---|---|
| * 6" | (2) L4 x 3 x 1/4 | BACK TO BACK, LLV |
| 8" | (2) L5 x 3 1/2 x 5/16 | BACK TO BACK, LLV |
| 10" | (2) L6 x 4 x 5/16 | BACK TO BACK, LLV |
| 12" | (2) L5 x 5 x 1/2 | BACK TO BACK, LLV |
| * NOTE: CUT ANGLE TO SUIT | | |

*NOTES:*
1. SEE ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS.
2. NOT ALL LINTELS ARE LABELED ON PLAN.

## LINTEL SCHEDULE

| MARK | SIZE | COMMENTS |
|---|---|---|
| L1 | (2) L6 x 3 1/2 x 5/16* (LLV) | B2B ANGLES; SEE PLAN |
| L2 | W8 x 24 | SEE PLAN |
| L3 | W10 x 30 | SEE PLAN |
| L4 | W12 x 50 | 12" BEARING EA. END; SEE PLAN |
| L5 | W16 x 31 | 12" BEARING EA. END; SEE PLAN |
| L6 | (2) L3 1/2 x 2 1/2* (LLV) | B2B ANGLES (CUT TO SUIT); SEE PLAN |
| L7 | (1)-15M BOND BEAM + L6 x 3 1/2 x 3/8* | SEE DETAIL 'CS15' ON S6; SEE ARCHS. FOR ALL OPENING LOCATIONS |
| NOTE: USE LINTEL 'L1' FOR ALL MECH. OPENINGS (U.N.O.); 38" MAX OPENING WIDTH | | |

**NOTES:**
1. SEE DWG. S6 FOR TYP. LINTEL DETAILS.
2. PROVIDE 3/8" THK. PLATE w/ 1/4" FILLET WELD TO U/S ALL 'W' LINTELS AND BEAMS SHOWN ON PLAN SUPPORTING BLOCK (1" LESS WIDTH OF BLOCK)
3. SEE ARCHITECTS DRAWINGS FOR ALL OPENING LOCATION, WIDTH, ETC.
4. M/C = MOMENT CONNECTION




# PARTIAL GROUND FLOOR PLAN

*SCALE: 1/8" = 1'-0"*

## DRAWING NOTES:

1. *SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL TYPES/ LOCATIONS, ETC.*
2. *SEE DRAWING S0 FOR GENERAL NOTES.*
3. *ALL STEEL STUD FRAMING DESIGNED BY STEEL STUD SUPPLIER. SUBMIT STEEL STUD SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER IN THE PROVINCE OF ONTARIO TO HALLEX ENGINEERING FOR APPROVAL.*

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
March 16, 2026
250406
PROVINCE OF ONTARIO

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| 4 | TENDER | 2026/03/16 |

CLIENT:
**DSBN**
**191 CARLTON ST.**
**ST. CATHARINES, ON**
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**PARTIAL GROUND FLOOR PLAN & SECHEDULES**

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | MAY/2025 |
| DRAWN BY: | TA |
| DESIGNED BY: | PW/BR |
| CHECKED BY: | ML/JH |
| SCALE: | AS SHOWN |
| DWG. | S2.1 |
| REV. | 4 |

## DRAWING NOTES:

1. *SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL TYPES/ LOCATIONS, ETC.*
2. *SEE DRAWING S0 FOR GENERAL NOTES.*
3. *ALL STEEL STUD FRAMING DESIGNED BY STEEL STUD SUPPLIER. SUBMIT STEEL STUD SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER IN THE PROVINCE OF ONTARIO TO HALLEX ENGINEERING FOR APPROVAL.*

# PARTIAL GROUND FLOOR PLAN

*SCALE: 1/8" = 1'-0"*

### *TYPICAL LINTELS FOR OPENINGS UP TO 4'-0" MAX. (U.N.O.)*

| BLOCK WALL SIZE | LINTEL | NOTES |
|---|---|---|
| * 6" | (2) L4 x 3 x $\frac{1}{4}$ | BACK TO BACK, LLV |
| 8" | (2) L5 x 3 $\frac{1}{2}$ x $\frac{5}{16}$ | BACK TO BACK, LLV |
| 10" | (2) L6 x 4 x $\frac{5}{16}$ | BACK TO BACK, LLV |
| 12" | (2) L5 x 5 x $\frac{1}{2}$ | BACK TO BACK, LLV |
| * NOTE: CUT ANGLE TO SUIT | | |

***NOTES:***

1. SEE ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS.
2. NOT ALL LINTELS ARE LABELED ON PLAN.

### *LINTEL SCHEDULE*

| MARK | SIZE | COMMENTS |
|---|---|---|
| L1 | (2) L6 x 3$\frac{1}{2}$ x $\frac{5}{16}$" (LLV) | B2B ANGLES; SEE PLAN |
| L2 | W8 x 24 | SEE PLAN |
| L3 | W10 x 30 | SEE PLAN |
| L4 | W12 x 50 | 12" BEARING EA. END; SEE PLAN |
| L5 | W16 x 31 | 12" BEARING EA. END; SEE PLAN |
| L6 | (2) L3$\frac{1}{2}$ x 2$\frac{1}{2}$ x $\frac{1}{4}$" (LLV) | B2B ANGLES (CUT TO SUIT); SEE PLAN |
| L7 | (1)-15M BOND BEAM + L6 x 3$\frac{1}{2}$ x $\frac{1}{4}$" | SEE DETAIL 'CS15' ON S6; SEE ARCHS. FOR ALL OPENING LOCATIONS |
| NOTE: USE LINTEL 'L1' FOR ALL MECH. OPENINGS (U.N.O.); 38" MAX OPENING WIDTH | | |

**NOTES:**

1. SEE DWG. S6 FOR TYP. LINTEL DETAILS.
2. PROVIDE $\frac{1}{4}$" THK. PLATE w/ $\frac{1}{4}$" FILLET WELD TO U/S ALL 'W' LINTELS AND BEAMS SHOWN ON PLAN SUPPORTING BLOCK (1" LESS WIDTH OF BLOCK)
3. SEE ARCHITECTS DRAWINGS FOR ALL OPENING LOCATION, WIDTH, ETC.
4. M/C = MOMENT CONNECTION

### *BLOCK WALL SCHEDULE*

| MARK | SIZE | REINFORCEMENT *VERTICAL* | REINFORCEMENT *HORIZONTAL* | NOTES |
|---|---|---|---|---|
| BW1 | 8" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | TYPICAL BLOCK WALL (U.N.O.); SEE PLAN |
| BW2 | 10" | 15M @ 16" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | 30 MPa COMP. STRENGTH |
| BW3 | 12" | 15M @ 24" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | 30 MPa COMP. STRENGTH |
| BW4 | 6" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE | SEE PLAN |
| BW5 | 4" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE | SEE PLAN |
| BW6 | 12" | 25M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. & EVERY 8'-0" | 30 MPa COMP. STRENGTH 'ACUSTA-WALL'; SEE ARCHS. FOR ALL LOCATIONS |

MASONRY NOTES:

1. ALL HORIZONTAL TRUSS REINFORCING TO BE DURAWALL SUPER HEAVY DUTY ($\frac{9}{64}$") HOT-DIPPED GALVANIZED; OR APPROVED EQUAL.
2. ALL INTERIOR PARTITIONS TO BE LATERALLY SUPPORTED AT TOP (SEE ARCHS. FOR ALL WALL LOCATIONS, SIZES, ETC.)
3. PROVIDE VERTICAL BARS AT ALL INTERSECTIONS, WALLS, CORNERS, EACH SIDE OF OPENING OVER 3'-0" LG. FOR ALL MASONRY WALLS.
4. ALL STEEL EXPOSED TO EXTERIOR TO BE GALVANIZED.
5. SEE ARCHITECTURAL DWGS. FOR ALL OPENING LOCATIONS & WIDTHS.

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
March 16, 2026
250406
PROVINCE OF ONTARIO

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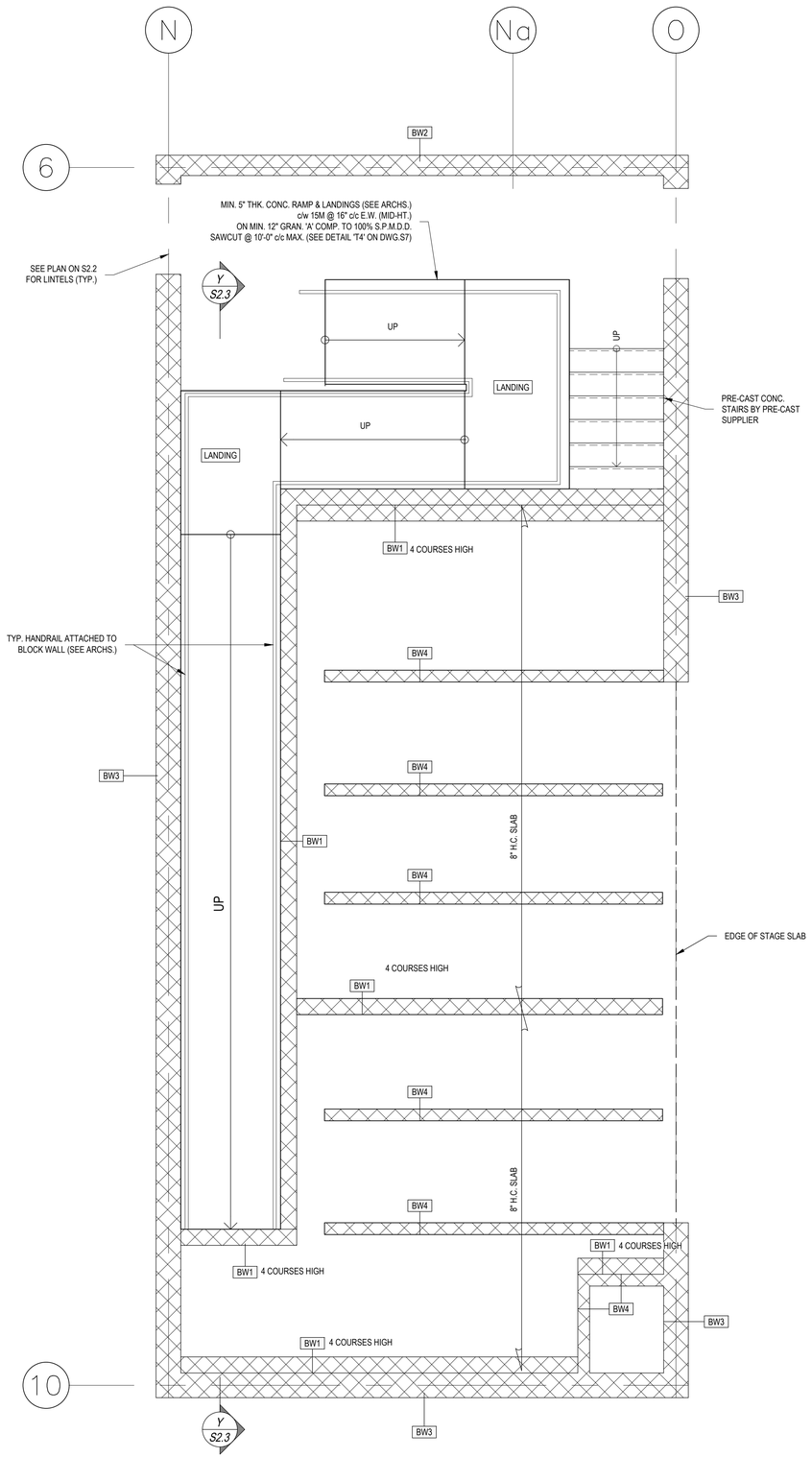
| 4 | TENDER | 2026/03/16 |

CLIENT:
**DSBN**
**191 CARLTON ST.**
**ST. CATHARINES, ON**
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

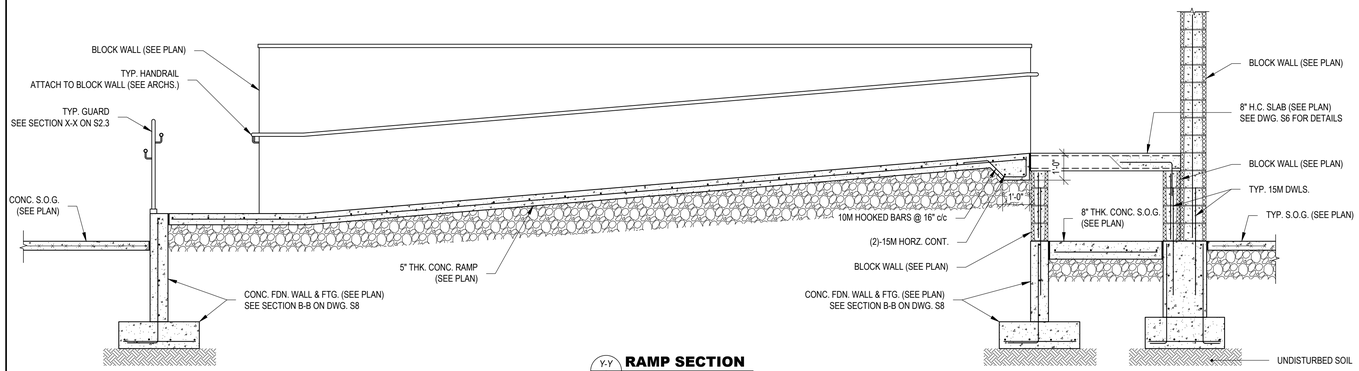
SHEET TITLE:
**PARTIAL GROUND FLOOR PLAN & SCHEDULES**

| | |
|---|---|
| JOB NUMBER: | **250406** |
| DATE: | **MAY/2025** |
| DRAWN BY: | **TA** |
| DESIGNED BY: | **PW/BR** |
| CHECKED BY: | **ML/JH** |
| SCALE: | **AS SHOWN** |
| DWG. | **S2.2** |
| REV. | **4** |




## STAGE PLAN

SCALE: 3/8" = 1'-0"




## Y-Y RAMP SECTION

S2.3/S2.3' SCALE: 3/8" = 1'-0"

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
March 16, 2026
250406
PROVINCE OF ONTARIO

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| 3 | TENDER | 2026/03/11 |
| 4 | TENDER | 2026/03/16 |

CLIENT:
**DSBN**
**191 CARLTON ST.**
**ST. CATHARINES, ON**
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**STAGE PLAN & SECTIONS**

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | MAY/2025 |
| DRAWN BY: | TA |
| DESIGNED BY: | PW/BR |
| CHECKED BY: | ML/JH |
| SCALE: | AS SHOWN |
| DWG. | S2.3 |
| REV. | 4 |

## BLOCK WALL SCHEDULE

| MARK | SIZE | REINFORCEMENT | | NOTES |
|---|---|---|---|---|
| | | *VERTICAL* | *HORIZONTAL* | |
| BW1 | 8" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | TYPICAL BLOCK WALL (U.N.O.); SEE PLAN |
| BW2 | 10" | 15M @ 16" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | 30 MPa COMP. STRENGTH |
| BW3 | 12" | 15M @ 24" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | 30 MPa COMP. STRENGTH |
| BW4 | 6" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE | SEE PLAN |
| BW5 | 4" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE | SEE PLAN |
| BW6 | 12" | 25M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. & EVERY 8'-0" | 30 MPa COMP. STRENGTH 'ACUSTA-WALL'; SEE ARCHS. FOR ALL LOCATIONS |

MASONRY NOTES:
1. ALL HORIZONTAL TRUSS REINFORCING TO BE DURAWALL SUPER HEAVY DUTY (9/64") HOT-DIPPED GALVANIZED; OR APPROVED EQUAL.
2. ALL INTERIOR PARTITIONS TO BE LATERALLY SUPPORTED AT TOP (SEE ARCHS. FOR ALL WALL LOCATIONS, SIZES, ETC.)
3. PROVIDE VERTICAL BARS AT ALL INTERSECTIONS, WALLS, CORNERS, EACH SIDE OF OPENING OVER 3'-0" LG. FOR ALL MASONRY WALLS.
4. ALL STEEL EXPOSED TO EXTERIOR TO BE GALVANIZED.
5. SEE ARCHITECTURAL DWGS. FOR ALL OPENING LOCATIONS & WIDTHS.

## LINTEL SCHEDULE

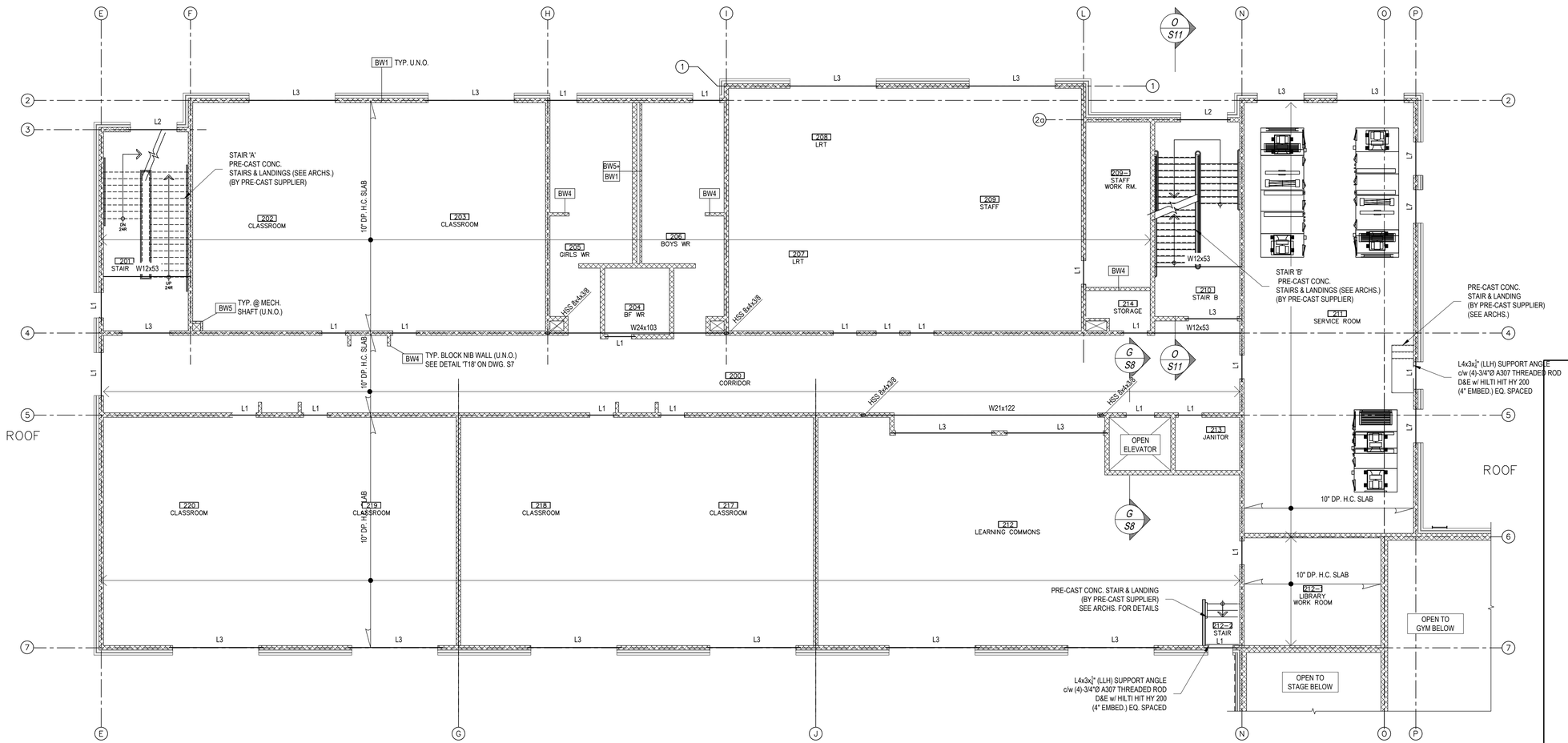
| MARK | SIZE | COMMENTS |
|---|---|---|
| L1 | (2) L6 x 3½ x 5/16" (LLV) | B2B ANGLES; SEE PLAN |
| L2 | W8 x 24 | SEE PLAN |
| L3 | W10 x 30 | SEE PLAN |
| L4 | W12 x 50 | 12" BEARING EA. END; SEE PLAN |
| L5 | W16 x 31 | 12" BEARING EA. END; SEE PLAN |
| L6 | (2) L3½ x 2½ x ⅜" (LLV) | B2B ANGLES (CUT TO SUIT); SEE PLAN |
| L7 | (1)-15M BOND BEAM + L6 x 3½ x ⅜" | SEE DETAIL 'CS15' ON S6; SEE ARCHS. FOR ALL OPENING LOCATIONS |
| NOTE: USE LINTEL 'L1' FOR ALL MECH. OPENINGS (U.N.O.); 38" MAX OPENING WIDTH | | |

**NOTES:**
1. SEE DWG. S6 FOR TYP. LINTEL DETAILS.
2. PROVIDE ⅜" THK. PLATE w/ ¼" FILLET WELD TO U/S ALL 'W' LINTELS AND BEAMS SHOWN ON PLAN SUPPORTING BLOCK (1" LESS WIDTH OF BLOCK)
3. SEE ARCHITECTS DRAWINGS FOR ALL OPENING LOCATION, WIDTH, ETC.
4. M/C = MOMENT CONNECTION

## TYPICAL LINTELS FOR OPENINGS UP TO 4'-0" MAX. (U.N.O.)

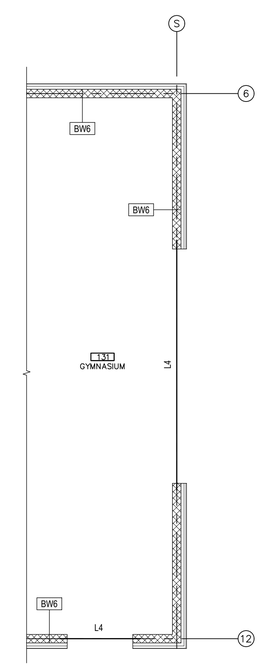
| BLOCK WALL SIZE | LINTEL | NOTES |
|---|---|---|
| * 6" | (2) L4 x 3 x ¼ | BACK TO BACK, LLV |
| 8" | (2) L5 x 3½ x 5/16 | BACK TO BACK, LLV |
| 10" | (2) L6 x 4 x 5/16 | BACK TO BACK, LLV |
| 12" | (2) L5 x 5 x ½ | BACK TO BACK, LLV |
| * NOTE: CUT ANGLE TO SUIT | | |

***NOTES:***
1. SEE ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS.
2. NOT ALL LINTELS ARE LABELED ON PLAN.




## SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"




## HIGH GYM WINDOWS

SCALE: 1/8" = 1'-0"

## DRAWING NOTES:

1. *SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL TYPES/ LOCATIONS, ETC.*
2. *SEE DRAWING S0 FOR GENERAL NOTES.*

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
March 16, 2026
250406
PROVINCE OF ONTARIO

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| 4 | TENDER | 2026/03/16 |

CLIENT:
**DSBN**
**191 CARLTON ST.**
**ST. CATHARINES, ON**
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**SECOND FLOOR PLAN**

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | MAY/2025 |
| DRAWN BY: | TA |
| DESIGNED BY: | PW/BR |
| CHECKED BY: | ML/JH |
| SCALE: | AS SHOWN |
| DWG. | S3 |
| REV. | 4 |

## BLOCK WALL SCHEDULE

| MARK | SIZE | REINFORCEMENT | | NOTES |
|---|---|---|---|---|
| | | *VERTICAL* | *HORIZONTAL* | |
| BW1 | 8" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | TYPICAL BLOCK WALL (U.N.O.); SEE PLAN |
| BW2 | 10" | 15M @ 16" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | 30 MPa COMP. STRENGTH |
| BW3 | 12" | 15M @ 24" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. | 30 MPa COMP. STRENGTH |
| BW4 | 6" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE | SEE PLAN |
| BW5 | 4" | 15M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE | SEE PLAN |
| BW6 | 12" | 25M @ 32" c/c | TRUSS REINFORCING EVERY OTHER COURSE 1-15M BOND BEAM @ TOP & MID. & EVERY 8'-0" | 30 MPa COMP. STRENGTH 'ACUSTA-WALL'; SEE ARCHS. FOR ALL LOCATIONS |

MASONRY NOTES:
1. ALL HORIZONTAL TRUSS REINFORCING TO BE DURAWALL SUPER HEAVY DUTY (3/16") HOT-DIPPED GALVANIZED; OR APPROVED EQUAL.
2. ALL INTERIOR PARTITIONS TO BE LATERALLY SUPPORTED AT TOP (SEE ARCHS. FOR ALL WALL LOCATIONS, SIZES, ETC.)
3. PROVIDE VERTICAL BARS AT ALL INTERSECTIONS, WALLS, CORNERS, EACH SIDE OF OPENING OVER 3'-0" LG. FOR ALL MASONRY WALLS.
4. ALL STEEL EXPOSED TO EXTERIOR TO BE GALVANIZED.
5. SEE ARCHITECTURAL DWGS. FOR ALL OPENING LOCATIONS & WIDTHS.

## LINTEL SCHEDULE

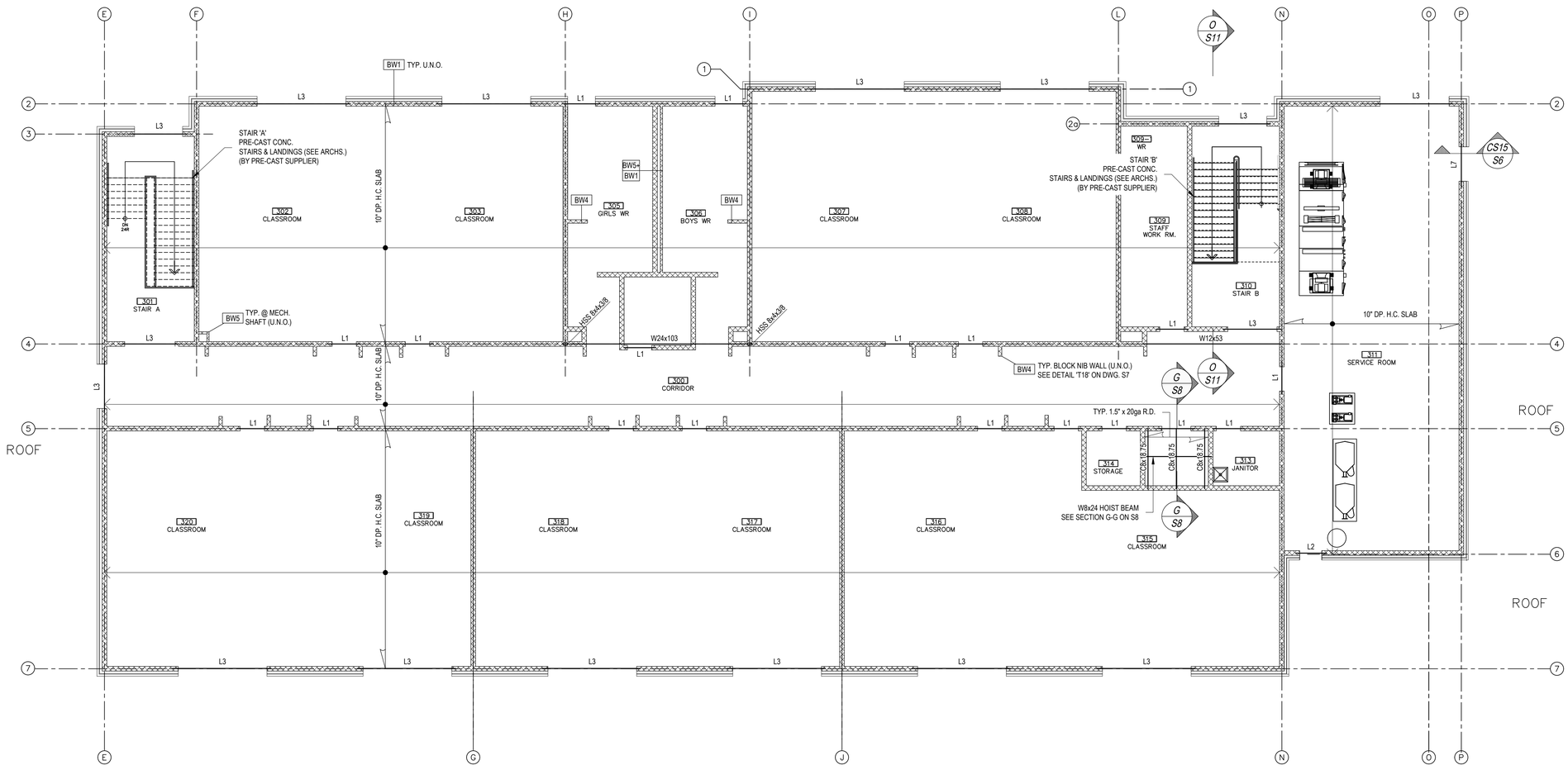
| MARK | SIZE | COMMENTS |
|---|---|---|
| L1 | (2) L6 x 3½ x 5/16" (LLV) | B2B ANGLES; SEE PLAN |
| L2 | W8 x 24 | SEE PLAN |
| L3 | W10 x 30 | SEE PLAN |
| L4 | W12 x 50 | 12" BEARING EA. END; SEE PLAN |
| L5 | W16 x 31 | 12" BEARING EA. END; SEE PLAN |
| L6 | (2) L3½ x 2½ x ¼" (LLV) | B2B ANGLES (CUT TO SUIT); SEE PLAN |
| L7 | (1)-15M BOND BEAM + L6 x 3½ x ¼" | SEE DETAIL 'CS15' ON S6; SEE ARCHS. FOR ALL OPENING LOCATIONS |
| NOTE: USE LINTEL 'L1' FOR ALL MECH. OPENINGS (U.N.O.); 38" MAX OPENING WIDTH | | |

**NOTES:**
1. SEE DWG. S6 FOR TYP. LINTEL DETAILS.
2. PROVIDE ⅜" THK. PLATE w/ ¼" FILLET WELD TO U/S ALL 'W' LINTELS AND BEAMS SHOWN ON PLAN SUPPORTING BLOCK (1" LESS WIDTH OF BLOCK)
3. SEE ARCHITECTS DRAWINGS FOR ALL OPENING LOCATION, WIDTH, ETC.
4. M/C = MOMENT CONNECTION

## TYPICAL LINTELS FOR OPENINGS UP TO 4'-0" MAX. (U.N.O.)

| BLOCK WALL SIZE | LINTEL | NOTES |
|---|---|---|
| * 6" | (2) L4 x 3 x ¼ | BACK TO BACK, LLV |
| 8" | (2) L5 x 3½ x 5/16 | BACK TO BACK, LLV |
| 10" | (2) L6 x 4 x 5/16 | BACK TO BACK, LLV |
| 12" | (2) L5 x 5 x ½ | BACK TO BACK, LLV |
| * NOTE: CUT ANGLE TO SUIT | | |

***NOTES:***
1. SEE ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS.
2. NOT ALL LINTELS ARE LABELED ON PLAN.




## THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"

## DRAWING NOTES:

1. *SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL TYPES/ LOCATIONS, ETC.*
2. *SEE DRAWING S0 FOR GENERAL NOTES.*

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
March 16, 2026
250406
PROVINCE OF ONTARIO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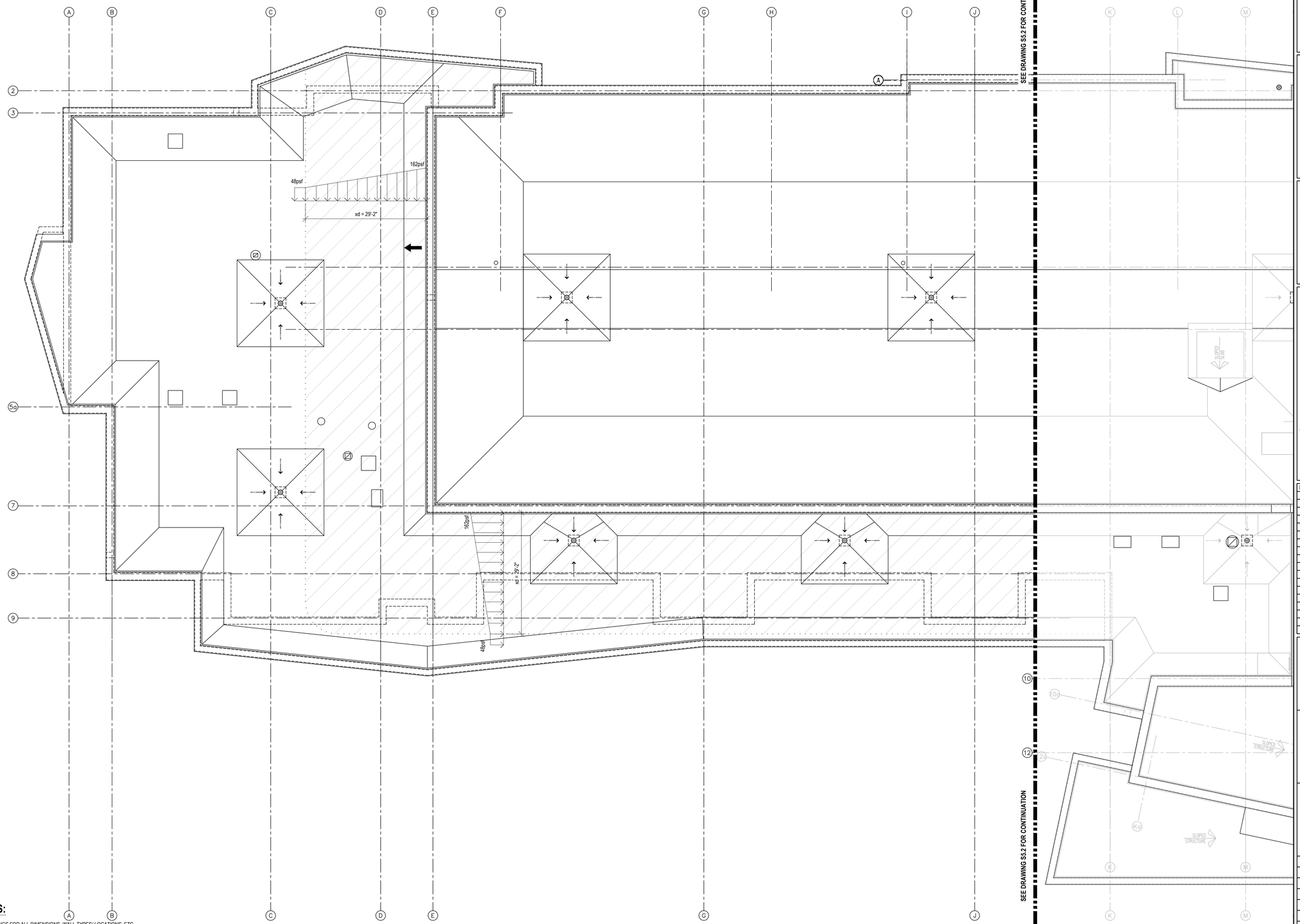
CLIENT:
**DSBN**
**191 CARLTON ST.**
**ST. CATHARINES, ON**
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**THIRD FLOOR PLAN**

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | MAY/2025 |
| DRAWN BY: | TA |
| DESIGNED BY: | PW/BR |
| CHECKED BY: | ML/JH |
| SCALE: | AS SHOWN |
| DWG. | S4 |
| REV. | 4 |




## DRAWING NOTES:

1. *SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL TYPES/ LOCATIONS, ETC.*
2. *SEE DRAWING S0 FOR GENERAL NOTES.*

## PARTIAL ROOF PLAN

*SCALE: 1/8" = 1'-0"*

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
March 16, 2026
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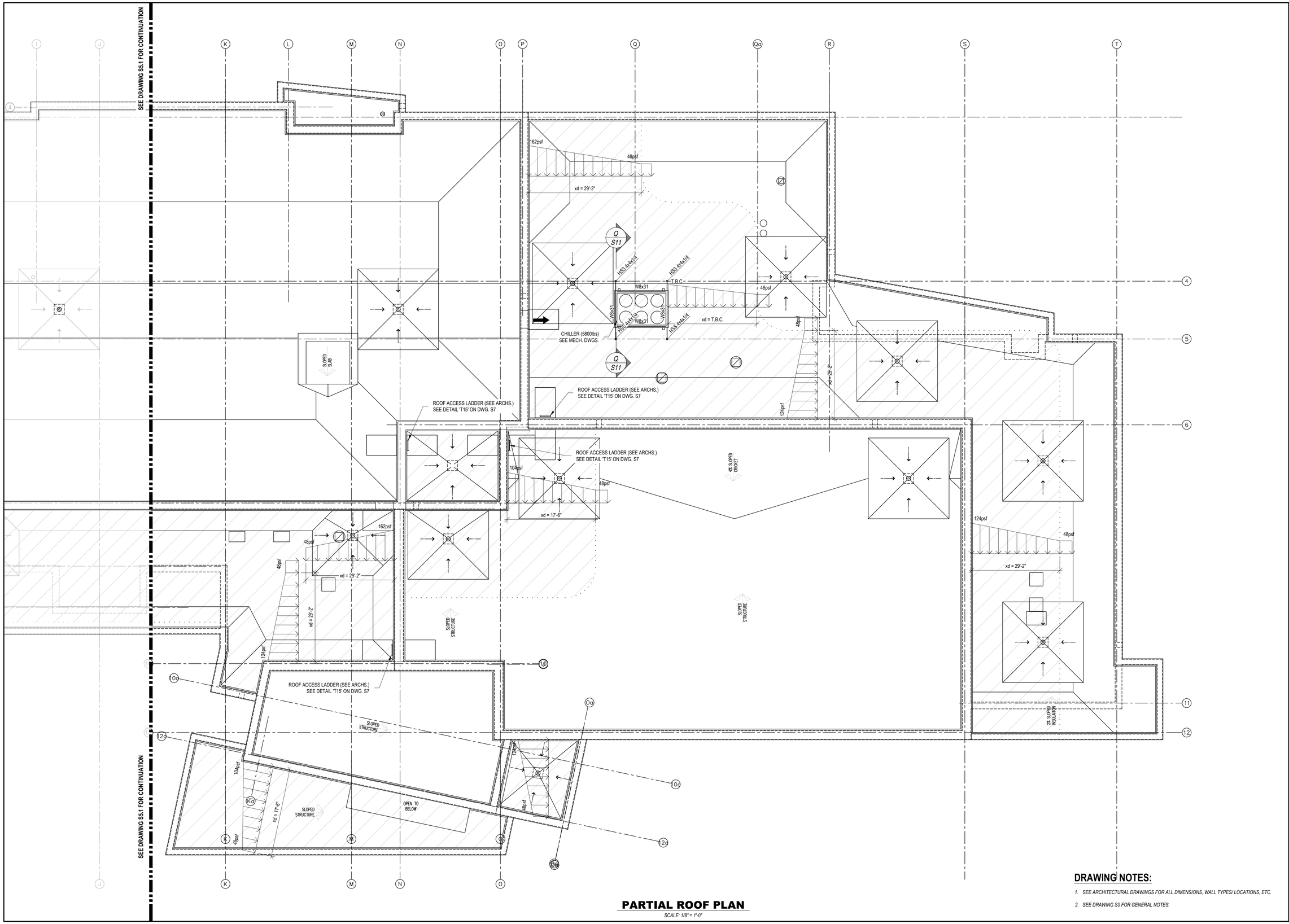
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**PARTIAL ROOF PLAN**

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | MAY/2025 |
| DRAWN BY: | TA |
| DESIGNED BY: | PW/BR |
| CHECKED BY: | ML/JH |
| SCALE: | AS SHOWN |
| DWG. | S5.1 |
| REV. | 4 |




## PARTIAL ROOF PLAN

SCALE: 1/8" = 1'-0"

## DRAWING NOTES:

1. *SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL TYPES/ LOCATIONS, ETC.*
2. *SEE DRAWING S0 FOR GENERAL NOTES.*

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SHEET TITLE:
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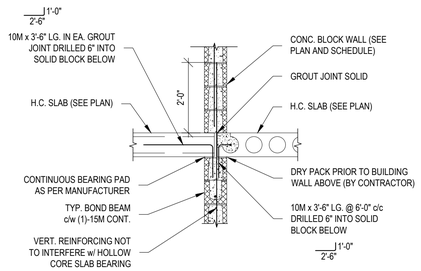
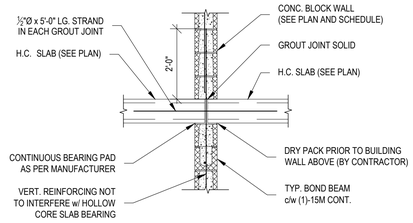
| DESIGNED BY: | PW/BR |
| CHECKED BY: | ML/JH |
| SCALE: | AS SHOWN |
| DWG. | S5.2 |
| REV. | 4 |



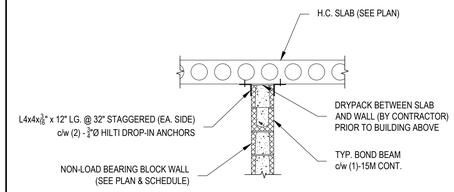

## CS1 H.C. SLAB @ INT. L.B. BLOCK WALL

S8 SCALE: 1/2" = 1'-0" (PERPENDICULAR BEARING)



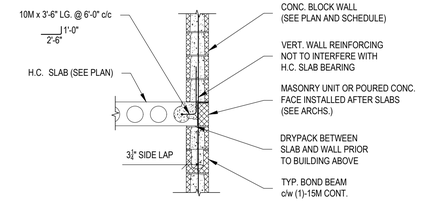

## CS2 H.C. SLAB @ INT. L.B. BLOCK WALL

S8 SCALE: 1/2" = 1'-0" (SHARED END BEARING)



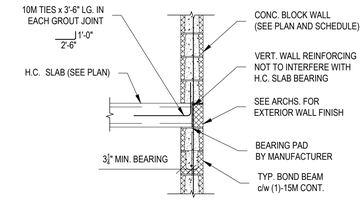

## CS3 H.C. SLAB @ NON-L.B. BLOCK WALL

S8 SCALE: 1/2" = 1'-0"



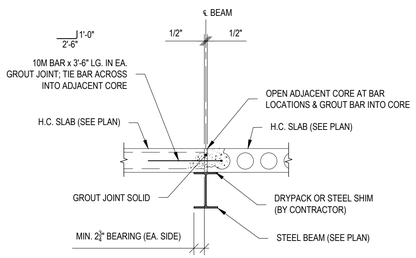

## CS4 H.C. SLAB @ EXTERIOR BLOCK WALL

S8 SCALE: 1/2" = 1'-0" (SIDE BEARING)




## CS5 H.C. SLAB @ EXTERIOR BLOCK WALL

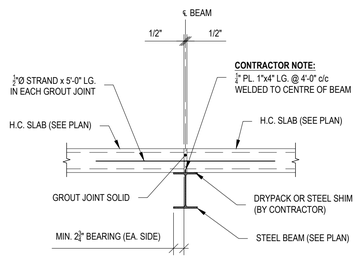
S8 SCALE: 1/2" = 1'-0" (END BEARING)




NOTE:
TEMPORARY SHORING BY CONTRACTOR

## CS6 H.C. SLAB @ STEEL BEAM

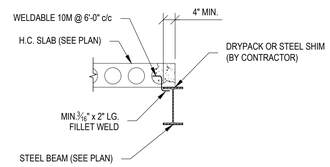
S8 SCALE: 1/2" = 1'-0" (PERPENDICULAR BEARING)




NOTE:
TEMPORARY SHORING BY CONTRACTOR

## CS7 H.C. SLAB @ STEEL BEAM

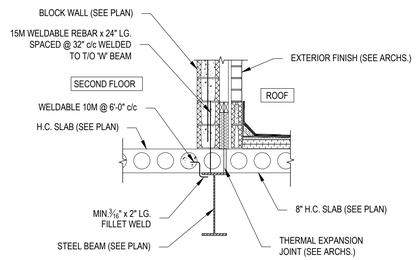
S8 SCALE: 1/2" = 1'-0" (SHARED END BEARING)




NOTE:
TEMPORARY SHORING BY CONTRACTOR

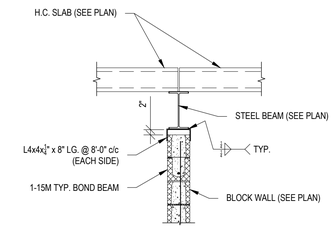
## CS8 H.C. SLAB @ STEEL BEAM

S8 SCALE: 1/2" = 1'-0" (SIDE BEARING)



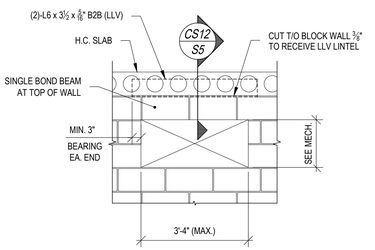

## CS9 H.C. SLAB ROOF EXPANSION JOINT

S8 SCALE: 1/2" = 1'-0"



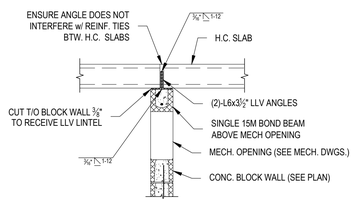

## CS10 NON-L.B. WALL BELOW STEEL BEAM

S8 SCALE: 1/2" = 1'-0"



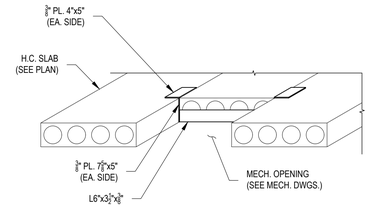

## CS11 TYP. BOND BEAM @ MECH. OPENING

S8 SCALE: 1/2" = 1'-0"



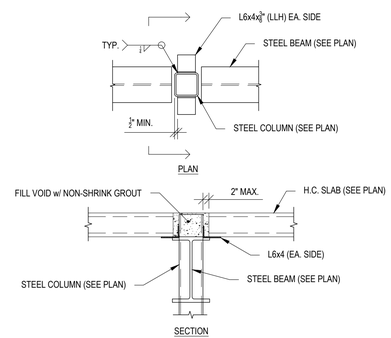

## CS12 TYP. BOND BEAM @ MECH. OPENING

S8 SCALE: 1/2" = 1'-0"



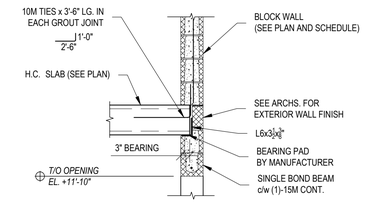

## CS13 H.C. SLAB HANGER DETAIL

S8 SCALE: 1/2" = 1'-0"



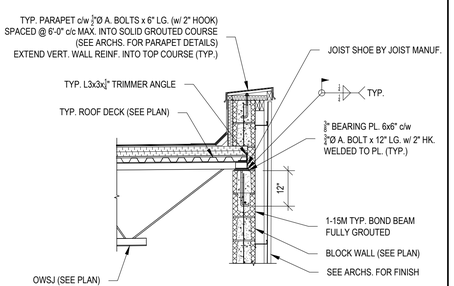

## CS14 H.C. SLAB @ COLUMN DETAIL

S8 SCALE: 1/2" = 1'-0"



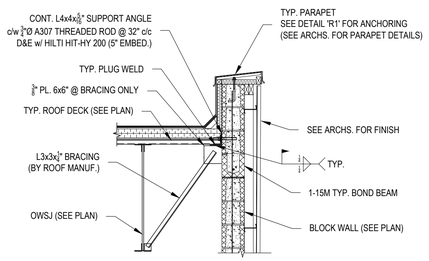

## CS15 SINGLE BOND BEAM @ BEARING

S8 SCALE: 1/2" = 1'-0" (END BEARING)



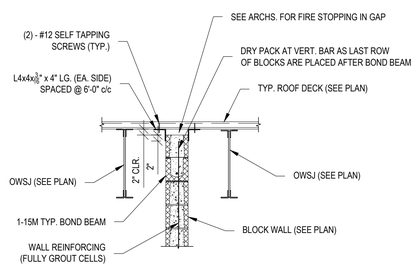

## R1 OWSJ BEARING @ EXT. BLOCK

S8 SCALE: 1/2" = 1'-0"



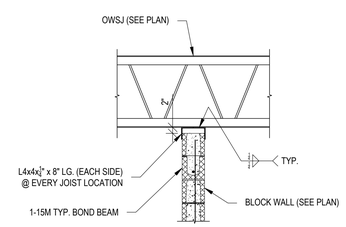

## R2 OWSJ PARALLEL TO EXT. BLOCK

S8 SCALE: 1/2" = 1'-0"



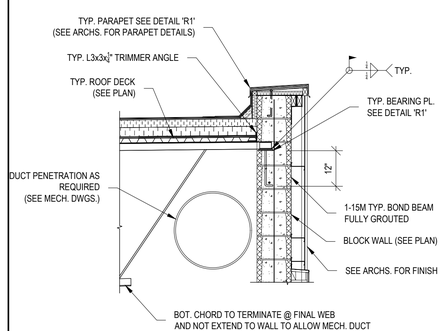

## R3 OWSJ PARALLEL TO NON-L.B. BLOCK

S8 SCALE: 1/2" = 1'-0"




## R4 OWSJ PERP. TO NON-L.B. BLOCK

S8 SCALE: 1/2" = 1'-0"




## R5 OWSJ BEARING @ GYM

S8 SCALE: 1/2" = 1'-0"

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J. J. HALUCHA
March 16, 2026
250406
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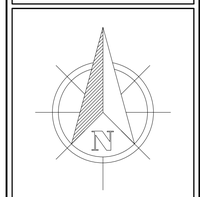


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CLIENT:
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**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**TYPICAL DETAILS**

| | |
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| JOB NUMBER: | 250406 |
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| DRAWN BY: | TA |
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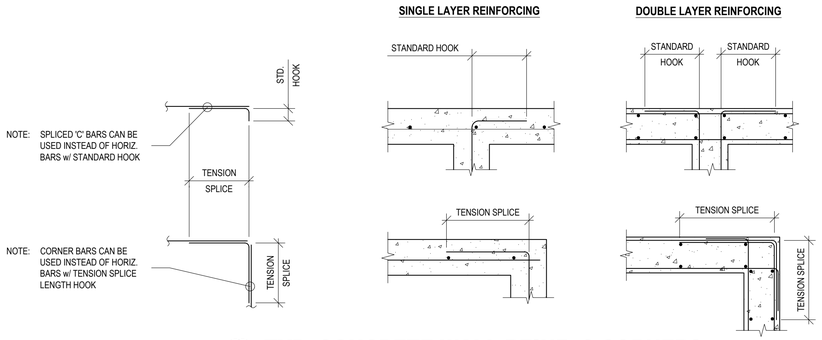
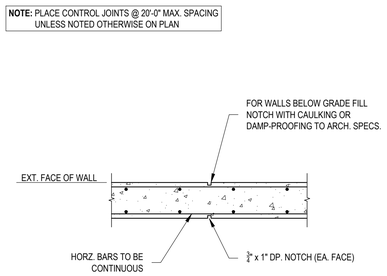
| SCALE: | AS SHOWN |
| DWG. | S6 |
| REV. | 4 |



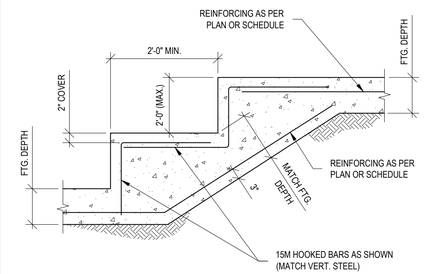

## T1 TYP. CONCRETE WALL REINF. @ CORNERS

S1 | S6 SCALE: 3/4" = 1'-0"



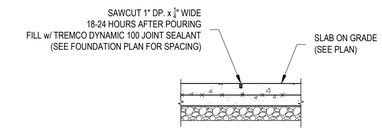

## T2 TYP. WALL CONTROL JOINT

S1 | S6 SCALE: 3/4" = 1'-0"



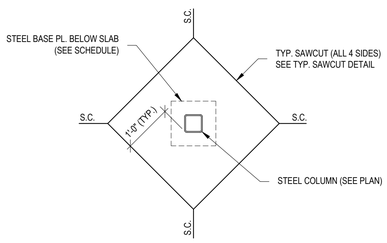

## T3 TYP. STEPPED FTG. DETAIL

S1 | S6 SCALE: 3/4" = 1'-0"



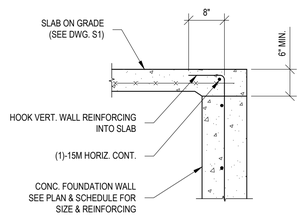

## T4 TYP. SLAB SAWCUT DETAIL

S1 | S6 SCALE: 3/4" = 1'-0"



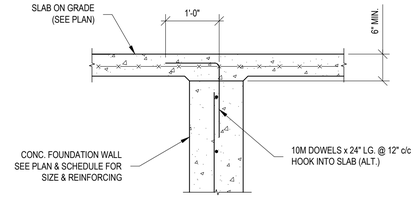

## T5 TYP. SLAB SAWCUT AROUND COLUMN

S1 | S6 SCALE: 3/4" = 1'-0"



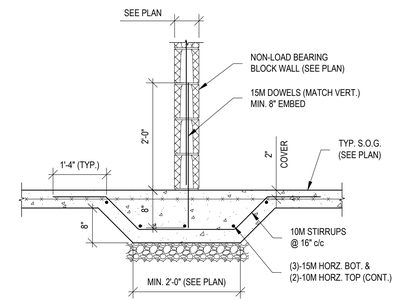

## T6 TYP. DOOR BUCK @ EXT. FDN. WALL

S1 | S6 SCALE: 3/4" = 1'-0"



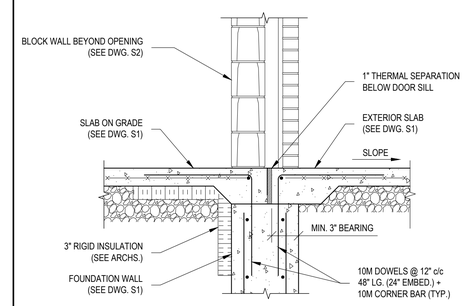

## T7 TYP. DOOR BUCK @ INT. FDN. WALL

S1 | S6 SCALE: 3/4" = 1'-0"



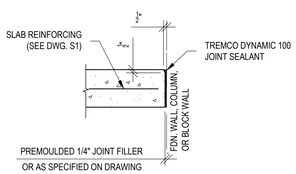

## T8 TYP. SLAB THICKENING DETAIL

S1 | S6 SCALE: 3/4" = 1'-0"



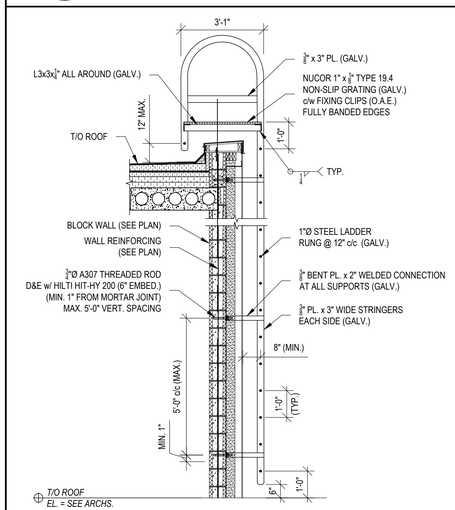

## T9 TYP. DOOR BUCK @ EXT. SLAB

S1 | S6 SCALE: 3/4" = 1'-0"



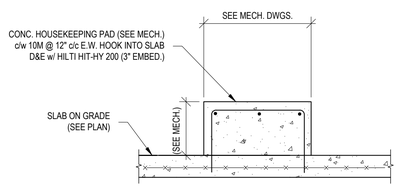

## T10 TYP. ISOLATION JOINT @ WALL

S1 | S6 SCALE: 3/4" = 1'-0"



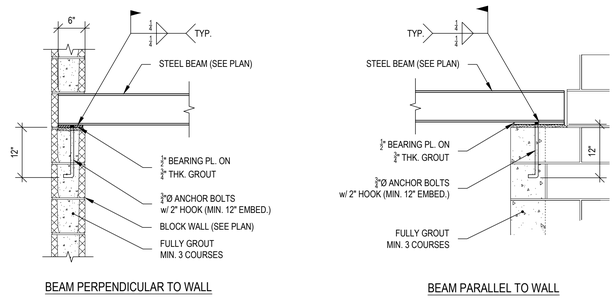

## T15 TYP. ROOF ACCESS LADDER

S5 | S6 SCALE: 3/8" = 1'-0"



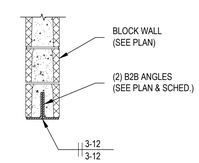

## T11 TYP. MECH. HOUSEKEEPING PAD

S1 | S6 SCALE: 3/4" = 1'-0"



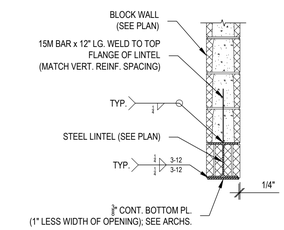

## T12 TYP. STEEL BEAM BEARING ON BLOCK

S1 | S6 SCALE: 3/4" = 1'-0"



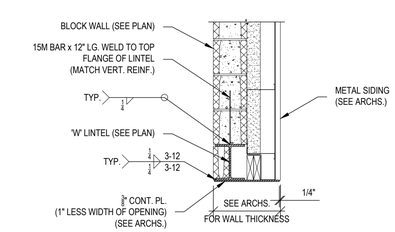

## T13 TYP. B2B ANGLE LINTEL

S1 | S6 SCALE: 3/4" = 1'-0"



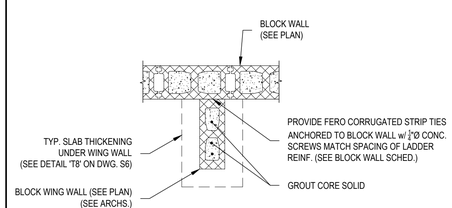

## T14 TYP. 'W' LINTEL DETAIL

S1 | S6 SCALE: 3/4" = 1'-0"



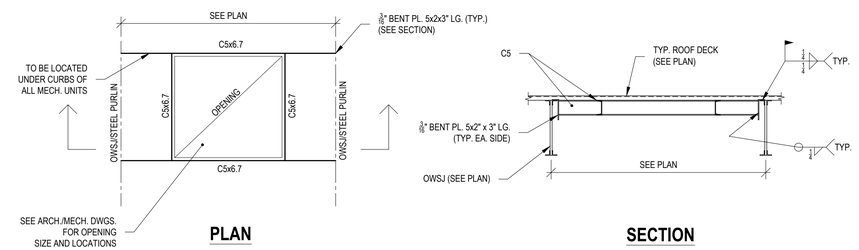

## T16 TYP. 'W' LINTEL w/ SIDING

S1 | S6 SCALE: 3/4" = 1'-0"




## T17 TYP. BLOCK NIB WALL DETAIL

S1 | S6 SCALE: 3/4" = 1'-0"




## T18 TYP. ROOF DECK OPENING DETAIL

S1 | S6 SCALE: 3/4" = 1'-0"

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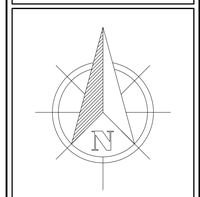


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CLIENT:
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PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

SHEET TITLE:
**TYPICAL DETAILS**

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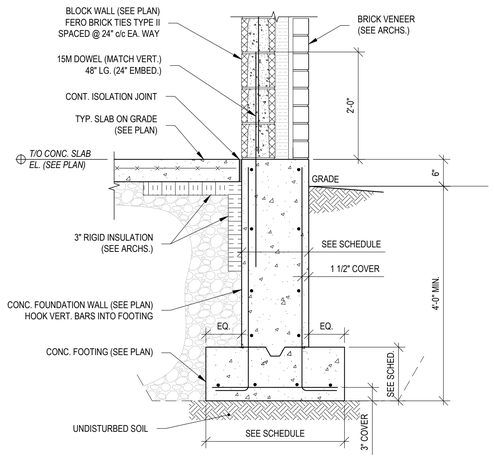
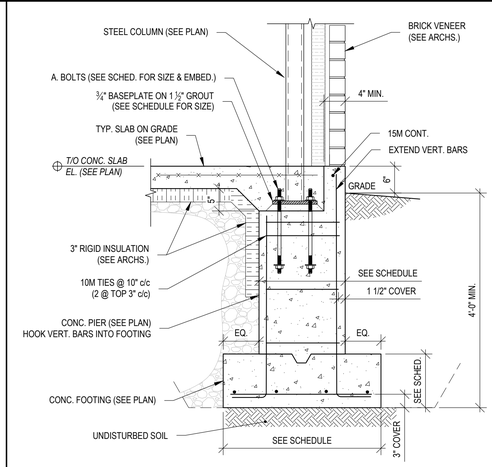
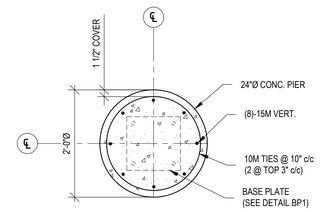
| DWG. | S7 |
| REV. | 4 |



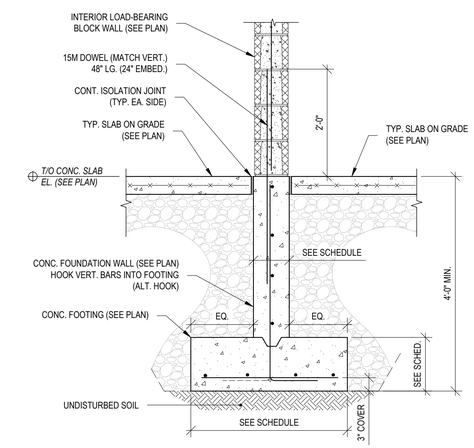

A-A S1 S8 **TYP. EXTERIOR FDN. WALL**
SCALE: 3/4" = 1'-0"



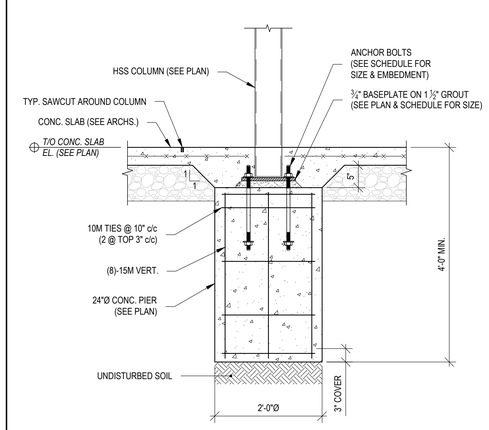

D-D S1 S8 **TYP. EXTERIOR WALL PIER SECTION**
SCALE: 3/4" = 1'-0"



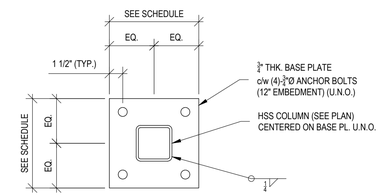

P2 S1 S8 **PIER DETAIL**
SCALE: 1" = 1'-0"



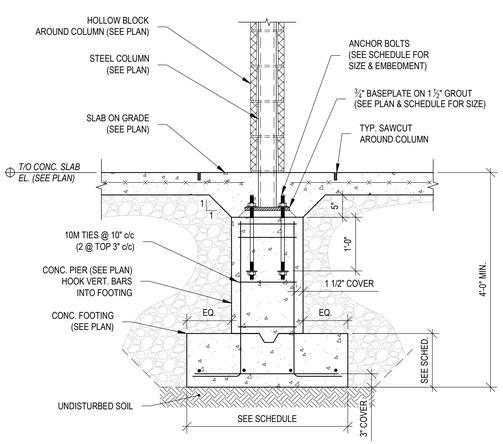

B-B S1 S8 **TYP. INTERIOR FDN. WALL**
SCALE: 3/4" = 1'-0"



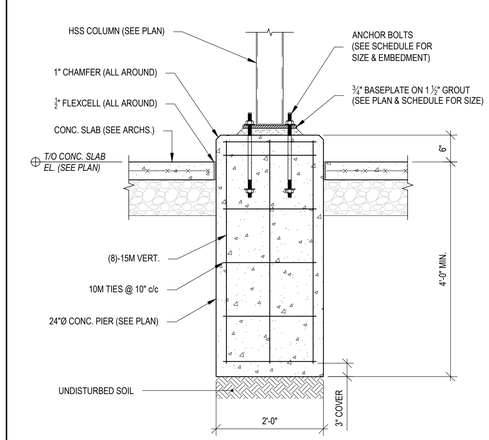

E-E S1 S8 **TYP. PIER 'P2' SECTION**
SCALE: 3/4" = 1'-0"



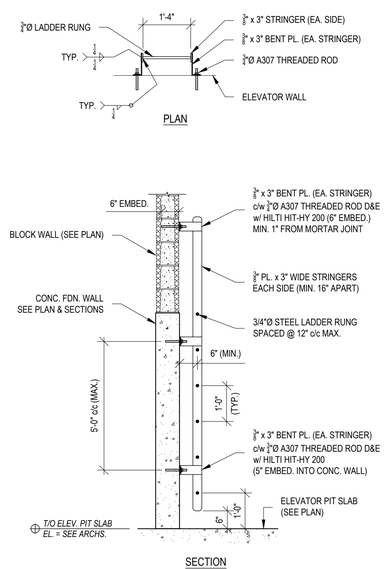

1 S1 S8 **TYP. BASE PLATE DETAIL**
SCALE: 1-1/2" = 1'-0"



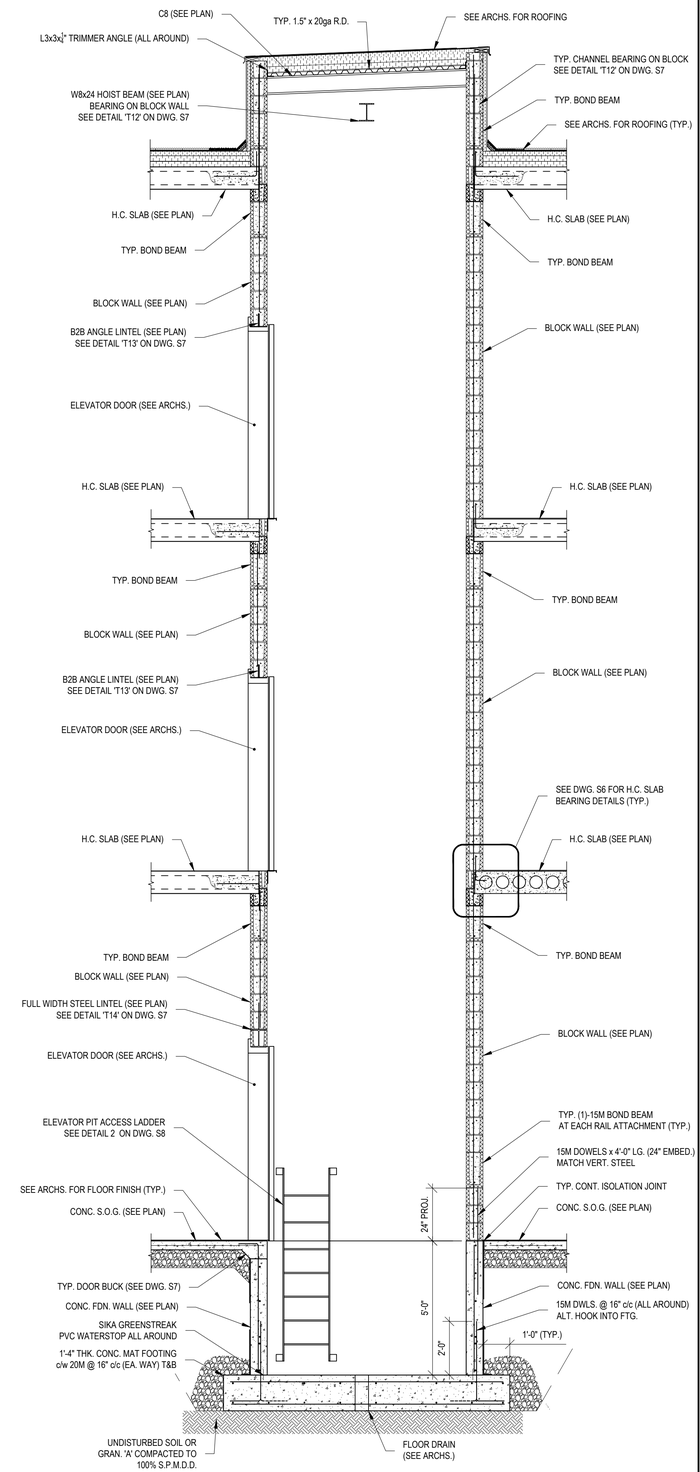

C-C S1 S8 **TYP. INTERIOR PIER SECTION**
SCALE: 3/4" = 1'-0"




F-F S1 S8 **TYP. PIER 'P2b' SECTION**
SCALE: 3/4" = 1'-0"




2 S1 S7 **ELEVATOR ACCESS LADDER DETAIL**
SCALE: 1/" = 1'-0"




G-G S1 S8 **ELEVATOR SECTION**
SCALE: 3/8" = 1'-0"

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March 16, 2026
250406
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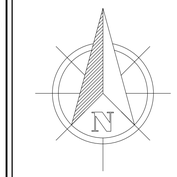


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PROJECT:
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**WELLAND, ON**

SHEET TITLE:
**SECTIONS & DETAILS**

| | |
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| JOB NUMBER: | 250406 |
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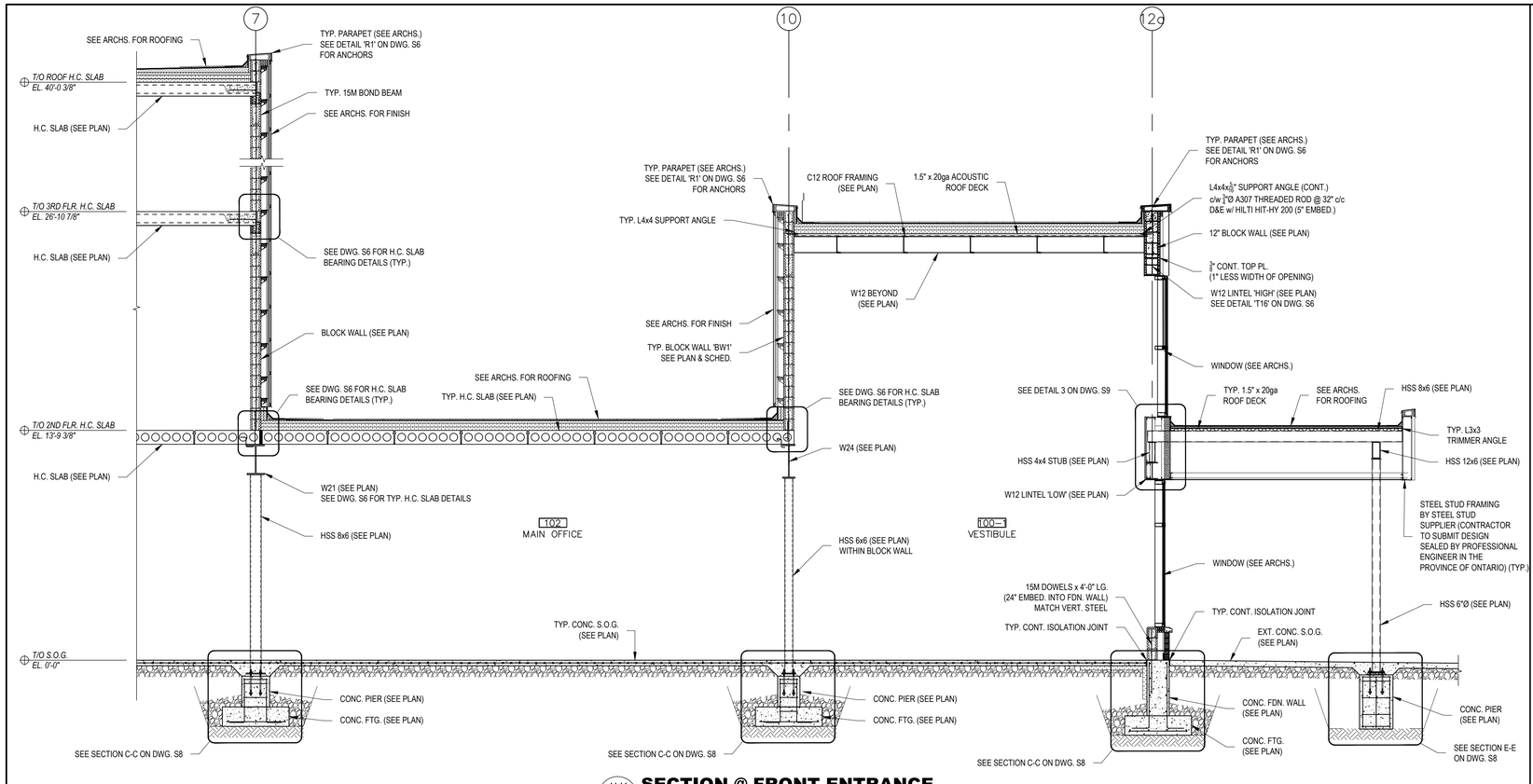
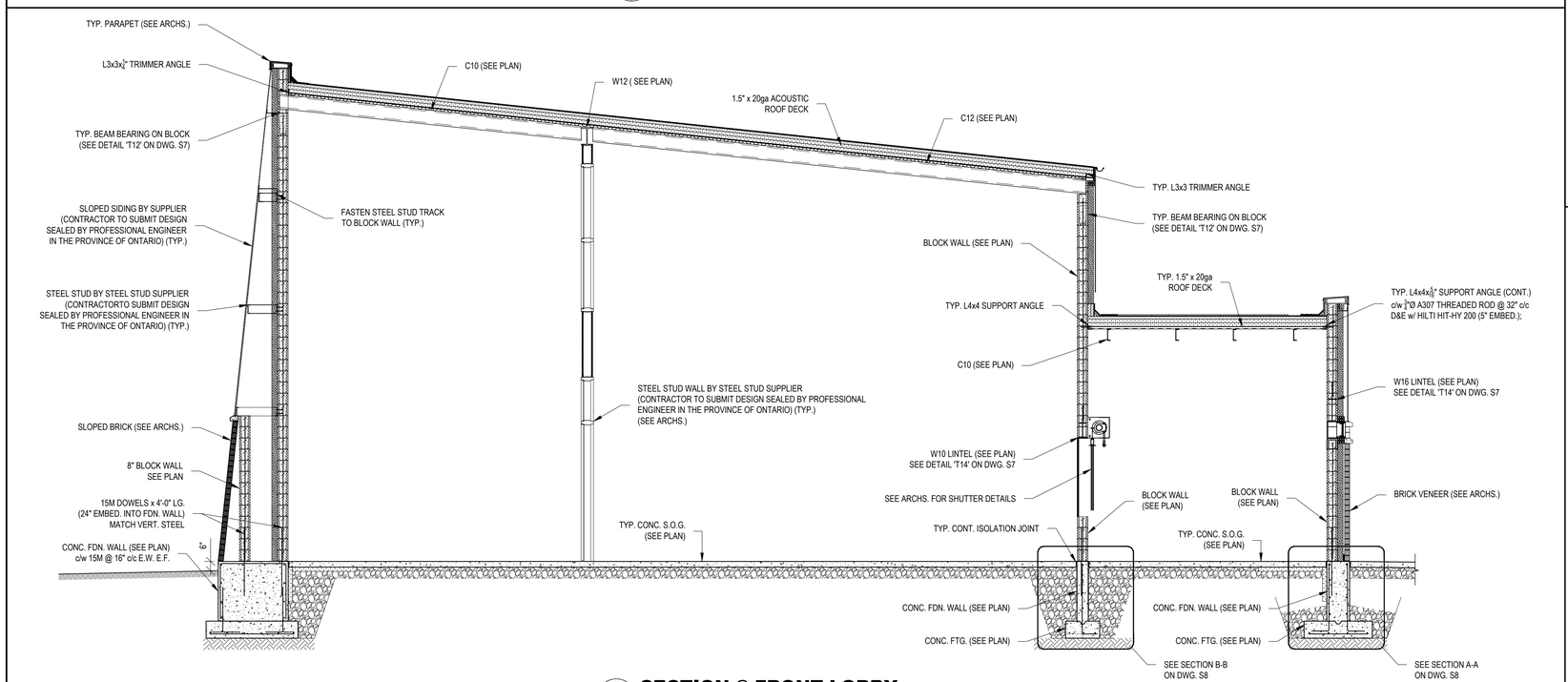
| DRAWN BY: | TA |
| DESIGNED BY: | PW/BR |
| CHECKED BY: | ML/JH |
| SCALE: | AS SHOWN |
| DWG. | S8 |
| REV. | 4 |



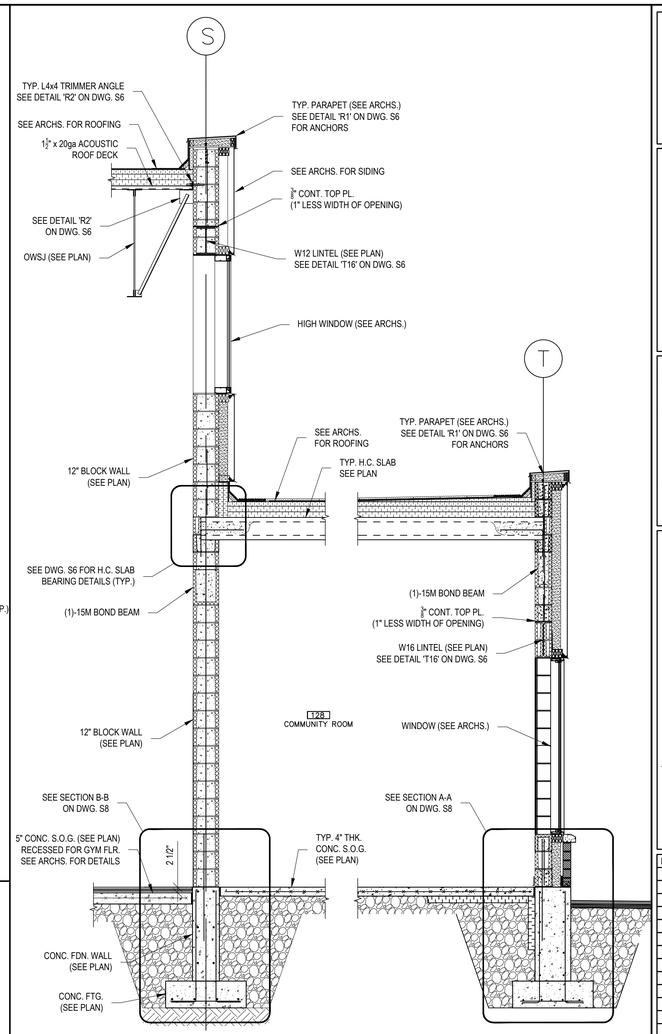

## H-H SECTION @ FRONT ENTRANCE

S1 | S9 SCALE: 1/4" = 1'-0"




## J-J SECTION @ FRONT LOBBY

S1 | S9 SCALE: 1/4" = 1'-0"




## L-L WALL SECTION

S1 | S10 SCALE: 3/8" = 1'-0"

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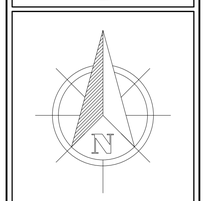


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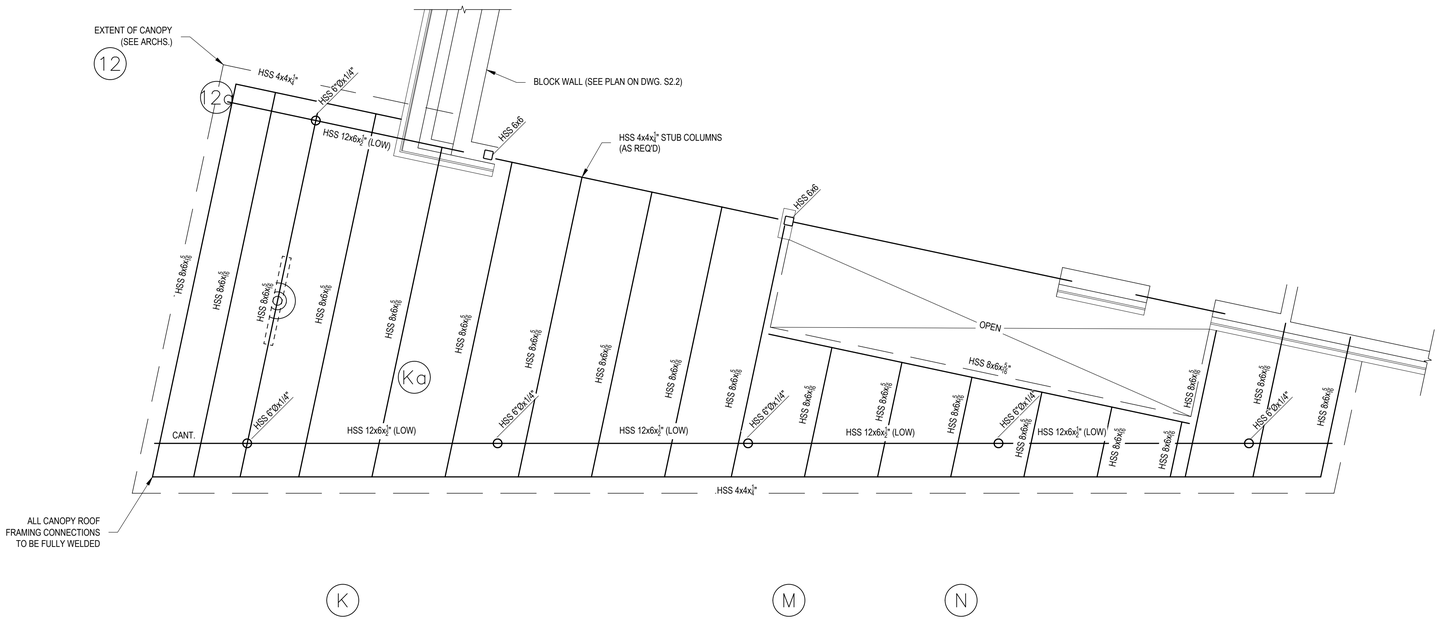
| 0 | CLASS A ESTIMATE/ | 2025/11/14 |
| | PERMIT/CLIENT REVIEW | |
| 1 | PERMIT | 2026/02/13 |
| 2 | TENDER | 2026/02/20 |
| 3 | TENDER | 2026/03/11 |
| 4 | TENDER | 2026/03/16 |

CLIENT:
**DSBN**
**191 CARLTON ST.**
**ST. CATHARINES, ON**
**72R 7P4**

PROJECT:
**NEW ELEMENTARY SCHOOL**
**415 EASTBRIDGE AVE.**
**WELLAND, ON**

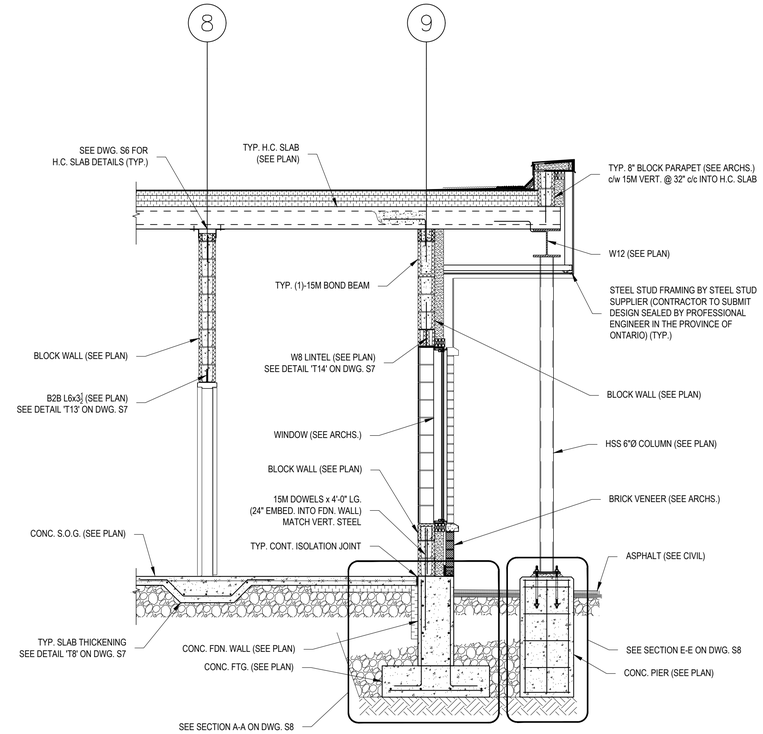
SHEET TITLE:
**SECTIONS & DETAILS**

| | |
|---|---|
| JOB NUMBER: | 250406 |
| DATE: | MAY/2025 |
| DRAWN BY: | TA |
| DESIGNED BY: | PW/BR |
| CHECKED BY: | ML/JH |
| SCALE: | AS SHOWN |
| DWG. | S9 |
| REV. | 4 |



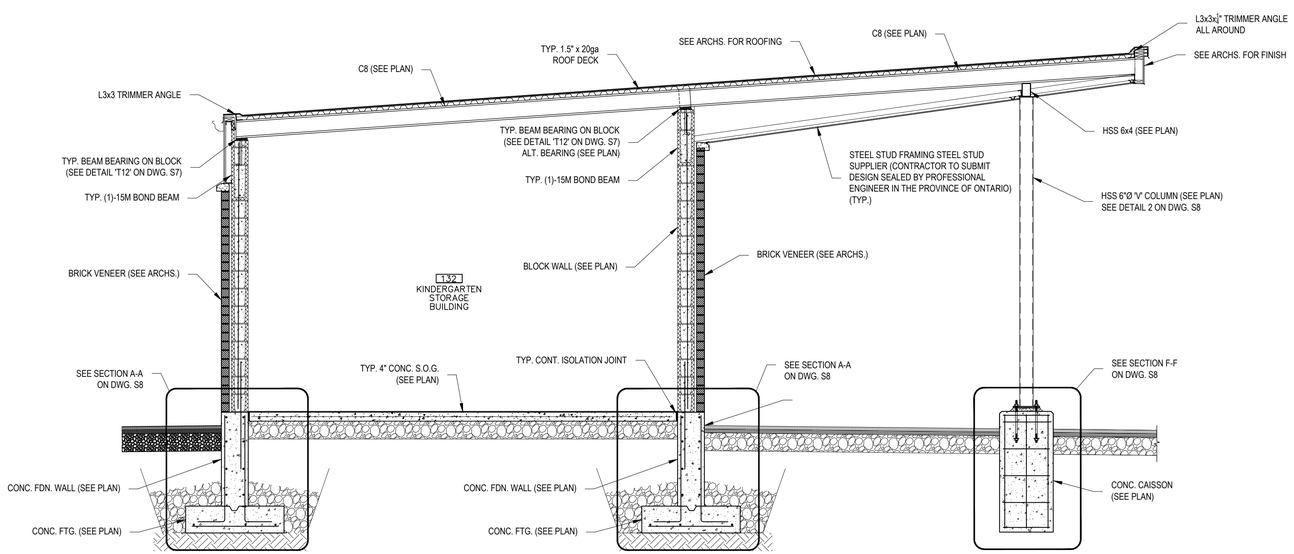

## CANOPY FRAMING PLAN

SCALE: 1/4" = 1'-0"



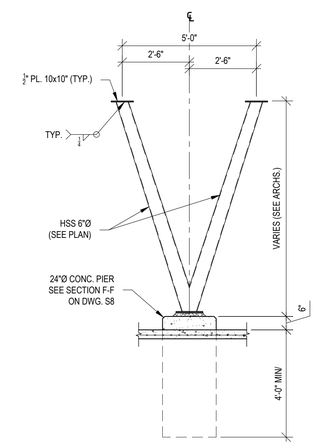

M-M / S2 S10 **SECTION @ KINDERGARTEN CANOPY**

SCALE: 3/8" = 1'-0"




N-N / S2 S9 **SECTION @ STORAGE SHED**

SCALE: 3/8" = 1'-0"




2 / S2 S8 **TYP. 'V' COLUMN DETAIL**

SCALE: 3/8" = 1'-0"

LICENSED PROFESSIONAL ENGINEER
J. J. HALUCHA
March 16, 2009
250406
PROVINCE OF ONTARIO

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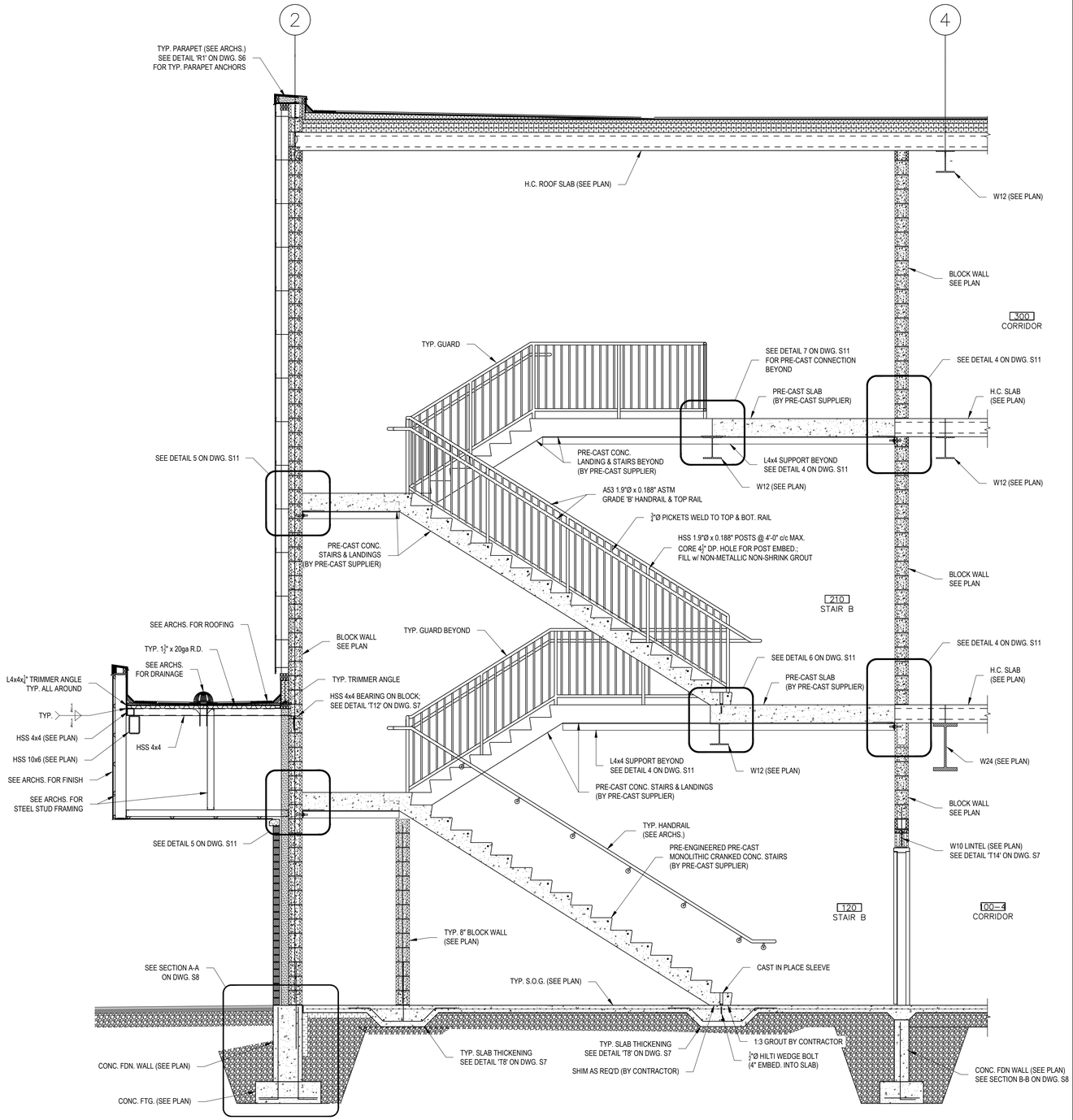
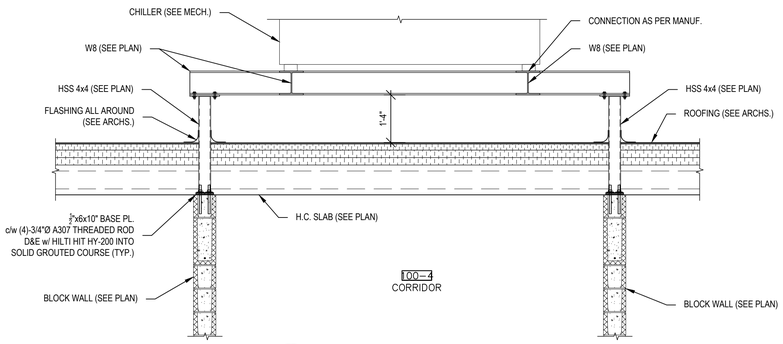


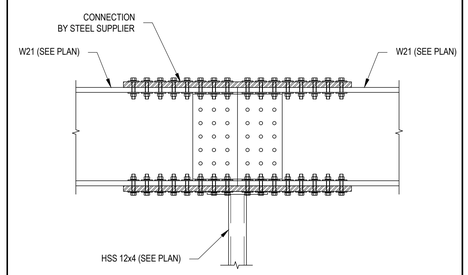

## 0-O SECTION @ STAIR 'B'

S11 S11 SCALE: 3/8" = 1'-0"



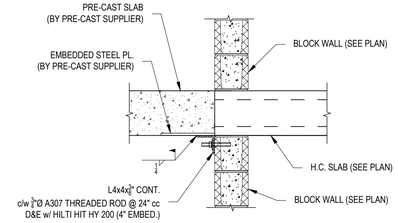

## Q-Q SECTION @ CHILLER

S5 S11 SCALE: 1/2" = 1'-0"



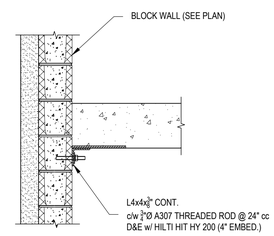

## 3 DETAIL

S2 S13 SCALE: 3/4" = 1'-0"



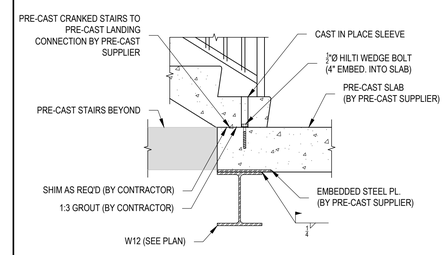

## 4 PRE-CAST SLAB @ H.C. SLAB DETAIL

S2 S13 SCALE: 3/4" = 1'-0"



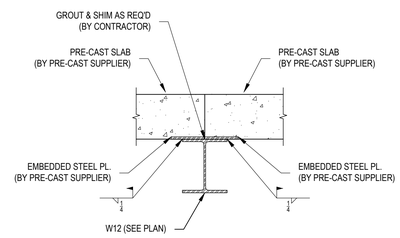

## 5 PRE-CAST @ BLOCK WALL DETAIL

S2 S13 SCALE: 3/4" = 1'-0"




## 6 PRE-CAST STAIR @ SECOND FLR.

S2 S13 SCALE: 3/4" = 1'-0"




## 7 PRE-CAST SLAB @ THIRD FLR.

S2 S13 SCALE: 3/4" = 1'-0"

LICENSED PROFESSIONAL ENGINEER
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March 16, 2026
250406
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| REV. | 4 |

24"x36" Imperial

## DIFFUSER, GRILLE AND LOUVRE SCHEDULE

| TAG | MANUFACTURER | MODEL | APPLICATION | FRAME/MOUNTING | FINISH | ACCESSORIES / REMARKS |
|---|---|---|---|---|---|---|
| S1 | PRICE | SPD 24"x24" | SUPPLY | T-BAR/SURFACE | WHITE | SQUARE PLAQUE DIFFUSER, STEEL, BALANCING DAMPER. |
| S2 | PRICE | SPD 12"x12" | SUPPLY | T-BAR/SURFACE | WHITE | SQUARE PLAQUE DIFFUSER, STEEL, BALANCING DAMPER. |
| S3 | PRICE | 520 | SUPPLY | DUCT | WHITE | 45 DEG DOUBLE DEFLECTION, 1/2" SPACING, STEEL. |
| S4 | PRICE | SDS100SBD | SUPPLY | T-BAR | WHITE | LINEAR 2 SLOT DIFFUSER, 1" SLOT WIDTH, SBD PLENUM, CABLE OPERATED DAMPER. |
| R1 | PRICE | 80 | RETURN | T-BAR/SURFACE | WHITE | EGG CRATE GRILLE. |
| R2 | PRICE | 96 | RETURN | SURFACE | BY ARCHITECT | HEAVY DUTY GYM GRILLE, 3/4" BLADE SPACING, STEEL, 45 DEG DEFLECTION. |
| R3 | PRICE | 535 | RETURN | SURFACE/DUCT | WHITE | 45 DEG DEFLECTION, 1/2" SPACING, STEEL. |
| E1 | PRICE | 80D | EXHAUST | SURFACE | WHITE | EGG CRATE GRILLE, ALUMINUM, OPPOSED BLADE DAMPER. |
| E2 | PRICE | 535 | EXHAUST | SURFACE/DUCT | WHITE | 45 DEG DEFLECTION, 1/2" SPACING, STEEL, BALANCING DAMPER. |
| L1 | VENTEX | 2635 | INTAKE/EXHAUST | FLANGE FRAME | BY ARCHITECT | LOUVRE, 2" DRAINABLE, EXTRUDED ALUMINUM, 45 DEG BLADE, 18 GA, 1/2" BIRDSCREEN, AMCA SEAL. |
| L2 | VENTEX | 2210 | INTAKE/EXHAUST | CHANNEL FRAME | BY ARCHITECT | LOUVRE, 2" DRAINABLE, EXTRUDED ALUMINUM, 30 DEG BLADE, 18 GA, 1/2" BIRDSCREEN, AMCA SEAL. |
| L3 | - | - | INTAKE/EXHAUST | CHANNEL FRAME | BY ARCHITECT | SUPPLIED BY GENERAL CONTRACTOR, SIZED AND INSTALLED BY MECHANICAL CONTRACTOR. |
| WB1 | REVERSOMATIC | SWBL-8 | EXHAUST | - | BY ARCHITECT | SINGLE WALL BOX, LEAK PROOF WALL BOX, EXTRUDED ALUMINUM GRILLE, BACKDRAFT DAMPER. |
| WB2 | REVERSOMATIC | DWBL-8 | EXHAUST | - | BY ARCHITECT | DOUBLE WALL BOX, LEAK PROOF WALL BOX, EXTRUDED ALUMINUM GRILLE, BACKDRAFT DAMPER. |
| WB3 | REVERSOMATIC | TWBL-8 | EXHAUST | - | BY ARCHITECT | TRIPLE WALL BOX, LEAK PROOF WALL BOX, EXTRUDED ALUMINUM GRILLE, BACKDRAFT DAMPER. |
| TG | PRICE | STG | TRANSFER | DOOR | BY ARCHITECT | STEEL, SIGHT PROOF TRANSFER GRILLE. |
| RC1 | REVERSOMATIC | RC6 | DRYER EXHAUST | - | SATIN COAT | C/W ROOF CURB, BIRDSCREEN. |

## MECHANICAL DRAWING LIST

| | |
|---|---|
| M1-1 | LEGEND & SCHEDULES |
| M1-2 | SCHEDULES |
| M1-3 | SCHEDULES |
| M1-4 | SCHEDULES |
| M1-5 | MECHANICAL DETAILS |
| M1-6 | MECHANICAL DETAILS & SCHEMATICS |
| M1-7 | MECHANICAL DETAILS & SCHEMATICS |
| M1-8 | BAS CONTROL SCHEMATICS |
| M2-1 | PARTIAL GROUND FLOOR PLAN - WEST PLUMBING LAYOUT |
| M2-2 | PARTIAL GROUND FLOOR PLAN - EAST PLUMBING LAYOUT |
| M2-3 | SECOND FLOOR PLAN PLUMBING LAYOUT |
| M2-4 | THIRD FLOOR PLAN PLUMBING LAYOUT |
| M3-1 | PARTIAL GROUND FLOOR PLAN - WEST HVAC LAYOUT |
| M3-2 | PARTIAL GROUND FLOOR PLAN - EAST HVAC LAYOUT |
| M3-3 | SECOND FLOOR PLAN HVAC LAYOUT |
| M3-4 | THIRD FLOOR PLAN HVAC LAYOUT |
| M3-5 | MECHANICAL ROOF PLAN & DETAILS |
| M3-6 | MECHANICAL SECTIONS |
| M4-1 | PARTIAL GROUND FLOOR PLAN - WEST FIRE PROTECTION LAYOUT |
| M4-2 | PARTIAL GROUND FLOOR PLAN - EAST FIRE PROTECTION LAYOUT |
| M4-3 | SECOND FLOOR PLAN - FIRE PROTECTION LAYOUT |
| M4-4 | THIRD FLOOR PLAN - FIRE PROTECTION LAYOUT |

## BUFFER TANK SCHEDULE

| TAG | SYSTEM | MANUFACTURER | MODEL | FLUID | DIAMETER (INCHES) | HEIGHT (INCHES) | TANK VOLUME (US GAL) | WEIGHT SHIPPING/OPERATING (LBS) | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| ST1 | BUFFER TANK | LOCHINVAR | SBT119 | 40% EG | 28 | 68 | 119 | 1,190 | STAINLESS STEEL, R13 INSULATED, POLYMER JACKET, DRAIN AND AIR VENT CONNECTIONS. |
| ST2 | BUFFER TANK | LOCHINVAR | SBT119 | 40% EG | 28 | 68 | 119 | 1,190 | STAINLESS STEEL, R13 INSULATED, POLYMER JACKET, DRAIN AND AIR VENT CONNECTIONS. |
| ST3 | BUFFER TANK | LOCHINVAR | SBT119 | 40% EG | 28 | 68 | 119 | 1,190 | STAINLESS STEEL, R13 INSULATED, POLYMER JACKET, DRAIN AND AIR VENT CONNECTIONS. |

## DOMESTIC HOT WATER HEATER SCHEDULE

| TAG | SYSTEM | MANUFACTURER | MODEL | INPUT (BTU/HR) | STORAGE CAPACITY (US GAL) | RECOVERY AT 100°F RISE (GPH) | SUPPLY TEMP (DEG F) | VENT SIZE (IN) | ELECTRICAL DATA | | OPERATING WEIGHT (KG) | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | VOLTAGE | AMPS | | |
| HWH1 | DOMESTIC HOT WATER | LOCHINVAR | SWR150N | 150,000 | 90 | 145 | 140 | 3 | 120/1/60 | - | 700 | DIRECT VENT SEALED COMBUSTION C/W TEMPERATURE AND PRESSURE RELIEF VALVE, STAINLESS STEEL HEAT EXCHANGER, CONDENSATE NEUTRALIZATION KIT, VENTING ULC S636, 5:1 TURNDOWN. |

## SUMP PUMP SCHEDULE

| TAG | SYSTEM | MANUFACTURER | MODEL | FLUID | FLUID TEMP (°F) | FLOW (US GPM) | HEAD (FT) | SUMP | | RPM | ELECTRICAL DATA | | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | DIA. (mm) | DEPTH (mm) | | VOLTAGE | HP/AMPS | |
| SP1 | ELEVATOR SUMP | LIBERTY | ELV280 | SANITARY | - | 50 | 15 | 750 | 3000 | 1800 | 120/1/60 | 1/2 HP | CAST IRON SUBMERSIBLE, CONTROLLER WITH ADJUSTABLE PROBES, PUMP ON AT 30", OFF AT 12", 25' POWER CORD, HIGH WATER LEVEL INDICATOR WITH REMOTE ALARM PROBE AND PANEL. FRP PREFABRICATED BASIN. |

## CONDENSING UNIT SCHEDULE

| TAG | SYSTEM | MANUFACTURER | MODEL | NOMINAL TONNAGE | ELECTRICAL DATA | | | EFFICIENCY (SEER) | WEIGHT (KG) | ACCESSORIES / REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOLTAGE | MCA | MOCP | | | |
| CU1 | UV-1 - OFFICE | TRANE | 5TTR7036 | 3.0 | 208-230/1/60 | 27 | 40 | - | 95 | R454B REFRIGERANT, 2 STAGE, VIBRATION ISOLATION, POWDER COATED, LOUVER PANELS, INTERLOCK WITH COOLING TERMINAL. |
| CU2 | UV-2 - COMM. ROOM | TRANE | 5TTR7060 | 5.0 | 208-230/1/60 | 43 | 60 | - | 115 | R454B REFRIGERANT, 2 STAGE, VIBRATION ISOLATION, POWDER COATED, LOUVER PANELS, INTERLOCK WITH COOLING TERMINAL. |
| CU3 | UV-3 - PRESCHOOL | TRANE | 5TTR7036 | 3.0 | 208-230/1/60 | 27 | 40 | - | 95 | R454B REFRIGERANT, 2 STAGE, VIBRATION ISOLATION, POWDER COATED, LOUVER PANELS, INTERLOCK WITH COOLING TERMINAL. |
| CU4 | UV-4 - TODDLER | TRANE | 5TTR7024 | 2.0 | 208-230/1/60 | 19 | 30 | - | 95 | R454B REFRIGERANT, 2 STAGE, VIBRATION ISOLATION, POWDER COATED, LOUVER PANELS, INTERLOCK WITH COOLING TERMINAL. |
| CU5 | UV-5 - INFANT | TRANE | 5TTR7024 | 2.0 | 208-230/1/60 | 19 | 30 | - | 95 | R454B REFRIGERANT, 2 STAGE, VIBRATION ISOLATION, POWDER COATED, LOUVER PANELS, INTERLOCK WITH COOLING TERMINAL. |
| CU6 | UV-6 - STORAGE | TRANE | 5TTR7024 | 2.0 | 208-230/1/60 | 19 | 30 | - | 95 | R454B REFRIGERANT, 2 STAGE, VIBRATION ISOLATION, POWDER COATED, LOUVER PANELS, INTERLOCK WITH COOLING TERMINAL. |

## WALL FIN SCHEDULE

| TAG | MANUFACTURER | ENCLOSURE | | ELEMENT (NON FERROUS) | | | | | FLOW USGPM | CBV SIZE IN. | 65F EAT, 130F AWT. BTU/HR/FT | OUPUT TOTAL (BTU/HR) | FINISH | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Model | HEIGHT (IN) | TYPE | Tube Dia.(IN) | ARRANGEMENT | C/C INCHES | LENGTH (FT) | | | | | | |
| WF1-1 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 8 | 1 | 1/2" | 650 | 5,200 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-2 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 11 | 1 | 1/2" | 650 | 7,150 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-3A | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 8 | 1 | 1/2" | 650 | 5,200 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-3B | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 8 | 1 | 1/2" | 650 | 5,200 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-4 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 5 | 1 | 1/2" | 650 | 3,250 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-5 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 6 | 1 | 1/2" | 650 | 3,900 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-6 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 12 | 1.5 | 1/2" | 650 | 7,800 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-7 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 12 | 1.5 | 1/2" | 650 | 7,800 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-8 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 12 | 1.5 | 1/2" | 650 | 7,800 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-9 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 12 | 1.5 | 1/2" | 650 | 7,800 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-10 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 12 | 1 | 1/2" | 650 | 7,800 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-11 | ROSEMEX | RVS | 18 | 44C1 | 3/4" | B | - | 23 | 3 | 1/2" | 600 | 13,800 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-12 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 7 | 1 | 1/2" | 650 | 4,550 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-13 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 7 | 1 | 1/2" | 650 | 4,550 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-14 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 4 | 2 | 1/2" | 650 | 2,600 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-15 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 7 | 1 | 1/2" | 650 | 4,550 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-16 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 7 | 1 | 1/2" | 650 | 4,550 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-17 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 6 | 1 | 1/2" | 650 | 3,900 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF1-18 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 6 | 1 | 1/2" | 650 | 3,900 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF2-1 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 6 | 1 | 1/2" | 650 | 3,900 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF2-2 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 6 | 1 | 1/2" | 650 | 3,900 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF3-1 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 6 | 1 | 1/2" | 650 | 3,900 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |
| WF3-2 | ROSEMEX | RVS | 24 | 44C1 | 3/4" | C | - | 6 | 1 | 1/2" | 650 | 3,900 | BY ARCHITECT | C/W 16GA. ENCLOSURE AS SHOWN, ACCESS PANELS BOTH ENDS, END CAPS, HANGERS, CENTRE ELEMENT BELOW WINDOWS |

## MECHANICAL LINE & SYMBOL LEGEND

| | |
|---|---|
| | DOMESTIC COLD WATER (DCW) |
| | DOMESTIC HOT WATER (DHW) |
| | DOMESTIC HOT WATER RETURN (DHWR) |
| | SANITARY ABOVE GROUND (SAN) |
| | SANITARY UNDERGROUND / UNDERFLOOR (SAN (U/G)) |
| | STORM ABOVE GROUND (STM) |
| | STORM UNDERGROUND / UNDERFLOOR (STM (U/G)) |
| | HEATING WATER SUPPLY (HWS) |
| | HEATING WATER RETURN (HWR) |
| NG | NATURAL GAS (NG) |
| | EQUIPMENT |
| | EQUIPMENT ABOVE |
| | PIPE BEND UP |
| | PIPE BEND DOWN |
| | TEE UP |
| | TEE DOWN |
| | CLEANOUT IN FLOOR OR AT GRADE |
| | CLEANOUT IN SUSPENDED PIPE |
| FD FFD HD | 'FD' = FLOOR DRAIN, 'FFD' = FUNNEL FLOOR DRAIN, 'HD' = HUB DRAIN |
| RD | 'RD' = ROOF DRAIN |
| | PIPECAP |
| | CONCENTRIC REDUCER |
| | UNION |
| | BALL VALVE |
| | BALL VALVE |
| | BUTTERFLY VALVE |
| | CONTROL VALVE 2-WAY |
| | CONTROL VALVE 3-WAY |
| | CHECK VALVE |
| | BALANCING VALVE |
| | NATURAL GAS PLUG VALVE - FULL PORT |
| | PRESSURE REDUCING VALVE |
| | STRAINER |
| | BALL VALVE WITH WITH THREADED HOSE CAP AND CHAIN |
| | BACKFLOW PREVENTER |
| | PRESSURE GAUGE - WITH SNUBBER, TYP. |
| | THERMOMETER |
| | PRESSURE RELIEF VALVE (PRV) |
| HB | HOSE BIBB |
| | SUPPLY AIR DUCT SECTION |
| | RETURN / EXHAUST AIR DUCT SECTION |
| | SUPPLY AIR DUCT DOWN |
| | RETURN / EXHAUST AIR DUCT DOWN |
| | SUPPLY AIR DUCT UP |
| | RETURN / EXHAUST AIR DUCT UP |
| | DIFFUSER OR SUPPLY GRILLE |
| | EXHAUST OR RETURN GRILLE |
| | DUCT |
| | ACOUSTIC LINING |
| | DUCT TRANSITION RECTANGLE - ROUND |
| | DUCT TRANSITION RECTANGLE - RECTANGLE / ROUND - ROUND |
| MD | MOTORIZED DAMPER |
| FD | FIRE DAMPER |
| ( ( ( | TURNING VANES |
| | VOLUME CONTROL DAMPER (BALANCING DAMPER) |
| BDD | BACKDRAFT DAMPER |
| | AIRFLOW DIRECTION |
| | EXHAUST FAN |
| GM | GAS METER |
| WM | WATER METER |
| $\$_T$ | TIMER |
| | PUMP |
| TS | EQUIPMENT / PIPE / DUCT MOUNTED DEVICE - 'TS' - TEMPERATURE SENSOR, 'HS' = HUMIDITY SENSOR, 'DP' = DIFFERENTIAL PRESSURE SENSOR, 'FS' = FLOW SWITCH |
| T | WALL MOUNTED DEVICE - 'T' = THERMOSTAT, 'S' = TEMPERATURE SENSOR, 'H' = HUMIDISTAT, 'G' = GUARD |
| R | NATURAL GAS REGULATOR |
| A B C | DIFFUSER / GRILLE / LOUVRE TAG<br>A: TAG, B: CFM, C: SIZE |
| TAG | EQUIPMENT / FIXTURE TAG |
| OED | OPEN-ENDED DUCT |
| NO / NC | NORMALLY OPEN / NORMALLY CLOSED |

THE ABOVE SYMBOLS ARE STANDARDS AND MAY APPLY TO THIS PROJECT. REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER DETAILS ON USE AND APPLICATIONS.

| issue | issued for | date | init. |
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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

LEGEND & SCHEDULES

| drawn by | designed by |
|---|---|
| MR | DS |
| **scale** | **date** |
| NTS | 20JUNE2025 |
| **job number** | **issue** |
| 25021 | 2 |

drawing number

M1-1

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plotted by: mreuter on Feb 20, 2026 - 9:39am

24"x36" Imperial

## AIR HANDLER SCHEDULE

| TAG | SYSTEM | LOCATION | MANUFACTURER | MODEL | SUPPLY FAN | | | | RETURN / EXHAUSUT FAN | | | | MIXED AIR FILTERS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AIR FLOW (CFM) | ESP ("WC) | FAN SPEED (RPM) | BHP | AIR FLOW (CFM) | ESP ("WC) | FAN SPEED (RPM) | BHP | FIRST STAGE | FACE VELOCITY FPM |
| AHU1 | FIRST FLOOR | INDOOR | TRANE | CSAA017 | 8,800 | 0.75 | 1,570 | 7.3 | 8,000 | 0.40 | 1,521 | 5.4 | MERV-A 13 | 137 |
| AHU2 | SECOND FLOOR | INDOOR | TRANE | CSAA017 | 7,500 | 0.60 | 1,673 | 5.6 | 6,500 | 0.40 | 1,890 | 3.6 | MERV-A 13 | 137 |
| AHU3 | THIRD FLOOR | INDOOR | TRANE | CSAA017 | 7,500 | 0.60 | 1,673 | 5.6 | 6,500 | 0.40 | 1,890 | 3.6 | MERV-A 13 | 137 |
| AHU4 | GYM | INDOOR | TRANE | CSAA017 | 7,500 | 0.50 | 1,624 | 4.9 | 6,750 | 0.30 | 1,225 | 1.7 | MERV-A 13 | 260 |

| TAG | HOT WATER HEATING | | | | | | | COOLING COIL | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | E.W.T. °F | L.W.T. °F | E.A.T. DB °F | L.A.T. DB °F | OUTPUT (MBH) | WATER FLOW (USGPM) | COIL WPD (FT) | E.A.T. DB °F | E.A.T. WB °F | L.A.T. DB °F | L.A.T. WB °F | SENSIBLE (MBH) | LATENT (MBH) | TOTAL OUTPUT (MBH) | FLUID FLOW (USGPM) | COIL WPD (FT) | FACE VELOCITY FPM |
| AHU1 | 140 | 120 | 58.3 | 90.0 | 258 | 26.0 | 1.0 | 76.6 | 65.1 | 54.0 | 54.0 | 219.0 | 76.0 | 295.0 | 48.0 | 7.0 | 563 |
| AHU2 | 140 | 120 | 56.7 | 90.0 | 270 | 27.0 | 1.0 | 76.8 | 65.3 | 54.0 | 53.9 | 188.0 | 69.0 | 257.0 | 41.0 | 5.5 | 480 |
| AHU3 | 140 | 120 | 56.7 | 90.0 | 270 | 27.0 | 1.0 | 76.8 | 65.3 | 54.0 | 53.9 | 188.0 | 69.0 | 257.0 | 41.0 | 5.5 | 480 |
| AHU4 | 140 | 120 | 50.0 | 87.0 | 295 | 29.5 | 1.0 | 78.0 | 67.0 | 56.0 | 55.9 | 182.0 | 79.0 | 261.0 | 42.0 | 5.0 | 480 |

| TAG | MIN OUTDOOR AIR (CFM) (DCV) | OUTDOOR AIR (CFM) | ELECTRICAL VOLTAGE | SUPPLY FAN MOTOR | | | | | RETURN / EXHAUSTFAN MOTOR | | | | | WEIGHT (LBS) | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HP | RPM | FLA | MCA | FUSE | HP | RPM | FLA | MCA | FUSE | | |
| AHU1 | 3,800 | 3,800 | 208/3/60 | 10 | 1,800 | 29.5 | - | - | 7.5 | 1,800 | 23.3 | - | - | 5,400 | C/W VFD MOTORS, VFD DRIVES, THREE INDIVIDUAL POWER CIRCUITS, PLENUM FANS, SOUND ATTENUATTION, ENERGY RECOVERY WHEEL, 100% OA, BYPASS DAMPERS |
| AHU2 | 3,700 | 3,700 | 208/3/60 | 7.5 | 1,800 | 23.3 | - | - | 5 | 1,800 | 15.3 | - | - | 5,200 | C/W VFD MOTORS, VFD DRIVES, THREE INDIVIDUAL POWER CIRCUITS, PLENUM FANS, SOUND ATTENUATTION, ENERGY RECOVERY WHEEL, 100% OA, BYPASS DAMPERS |
| AHU3 | 3,700 | 3,700 | 208/3/60 | 7.5 | 1,800 | 23.3 | - | - | 5 | 1,800 | 15.3 | - | - | 5,200 | C/W VFD MOTORS, VFD DRIVES, THREE INDIVIDUAL POWER CIRCUITS, PLENUM FANS, SOUND ATTENUATTION, ENERGY RECOVERY WHEEL, 100% OA, BYPASS DAMPERS |
| AHU4 | 750 | 4,200 | 208/3/60 | 7.5 | 1,800 | 23.3 | - | - | 3 | 1,800 | 9.7 | - | - | 4,000 | C/W VFD MOTORS, VFD DRIVES, PLENUM FANS, SOUND ATTENUATTION |

WINTER OAT=-5°F, SUMMER OAT=90°Fdb/73°Fwb

## OUTSIDE AIR ENERGY WHEEL SCHEDULE

| TAG | SYSTEM | LOCATION | MANUFACTURER | VENTILATION AIR FLOW (CFM) | EXHAUST AIR FLOW (CFM) | RETURN AIR FLOW (CFM) | SUPPLY AIR FLOW (CFM) |
|---|---|---|---|---|---|---|---|
| ERV1 | AHU1 | INDOOR | TRANE | 4,200 | 4,200 | 9,100 | 9,100 |
| ERV2 | AHU2 | INDOOR | TRANE | 4,700 | 4,700 | 8,000 | 8,000 |
| ERV3 | AHU4 | INDOOR | TRANE | 2,500 | 2,500 | 4,700 | 4,700 |

| TAG | SUMMER CONDITIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | OUTSIDE AIR DB °F | OUTSIDE AIR WB °F | RETURN AIR DB °F | RETURN AIR WB °F | SUPPLY AIR DB °F | SUPPLY AIR WB °F | EXHAUST AIR DB °F | EXHAUST AIR WB °F | EFF. LATENT % | EFF SENSIBLE % | EFF. TOTAL % |
| ERV1 | 90.0 | 73.0 | 78.0 | 65.0 | 79.1 | 66.0 | 87.4 | 71.2 | 73.0 | 78.5 | 75.4 |
| ERV2 | 90.0 | 73.0 | 78.0 | 65.0 | 79.7 | 66.4 | 86.9 | 71.0 | 69.4 | 74.2 | 71.5 |
| ERV3 | 90.0 | 73.0 | 78.0 | 65.0 | 80.0 | 66.0 | 87.0 | 71.0 | 71.0 | 76.0 | 73.0 |

| TAG | WINTER CONDITIONS | | | | | | | | | | | VOLTAGE | WHEEL MOTOR | | | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OUTSIDE AIR DB °F | OUTSIDE AIR WB °F | RETURN AIR DB °F | RETURN AIR WB °F | SUPPLY AIR DB °F | SUPPLY AIR WB °F | EXHAUST AIR DB °F | EXHAUST AIR WB °F | EFF. LATENT % | EFF SENSIBLE % | EFF. TOTAL % | | FLA | MCA | FUSE | |
| ERV1 | -5.0 | -6.0 | 72.0 | 53.0 | 64.0 | 48.5 | 11.4 | 11.2 | 73.4 | 78.5 | 77.1 | 208/3/60 | 3.1 | 3.8 | 15 | C/W COMBINATION STARTER. |
| ERV2 | -5.0 | -6.0 | 72.0 | 53.0 | 59.7 | 46.1 | 14.6 | 14.1 | 69.7 | 74.2 | 73.0 | 208/3/60 | 3.1 | 3.8 | 15 | C/W COMBINATION STARTER. |
| ERV3 | -5.0 | -6.0 | 72.0 | 53.0 | 61.0 | 47.0 | 14.0 | 13.0 | 71.0 | 76.0 | 74.0 | 208/3/60 | 1.2 | 1.4 | 15 | C/W COMBINATION STARTER. |

## BOILER SCHEDULE

| TAG | SYSTEM | MANUFACTURER | MODEL | INPUT MAX MBH | OUTPUT MAX MBH | FLUID | FLOW US GPM | WPD FT | WATER CONN. (IN) | VENT CONN. (IN) | NATURAL GAS CONN. (IN) | NATURAL GAS PRESSURE IN WC | PRV PSIG | TURNDOWN RATIO | ELECTRICAL | | WEIGHT LBS | THERMAL EFFICIENCY | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | VOLTAGE | MCA | | | |
| B1 | HOT WATER HEATING | LOCHINVAR | FBN1251 | 1,250 | 1,203 | WATER | 120 | 9.2 | 3 | 8 | 1-1/2 | 4-14 | 50 | 20:1 | 120/1/60 | 9.0 | 5,200 | 96% | LCD DISPLAY, LWCO , FLOW SWITCH, NEUTRALIZATION KIT, PRV, PUMP DELAY RELAY, CASCADE CONTROLS, SEISMIC KIT, STAINLESS STEEL AL29-4C DOUBLE WALLED VENTING |
| B2 | HOT WATER HEATING | LOCHINVAR | FBN1251 | 1,250 | 1,203 | WATER | 120 | 9.2 | 3 | 8 | 1-1/2 | 4-14 | 50 | 20:1 | 120/1/60 | 9.0 | 5,200 | 96% | LCD DISPLAY, LWCO , FLOW SWITCH, NEUTRALIZATION KIT, PRV, PUMP DELAY RELAY, CASCADE CONTROLS, SEISMIC KIT, STAINLESS STEEL AL29-4C DOUBLE WALLED VENTING |

## AIR COOLED CHILLER

| TAG | SYSTEM | LOCATION | MANUFACTURER | MODEL | NOMINAL TONS | OUTPUT TONS | EWT °F | LWT °F | FLOW RATE USGPM | WPD (FT) EVAP+STRAINER | EER | IPLV | VOLTAGE | MCA | TOTAL POWER (kW) | MOCP | WEIGHT LBS | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CH1 | CHILLED WATER | OUTDOOR | TRANE | CGAM | 80 | 78.4 | 59 | 44 | 141.5 | 11.4 | 11.32 | 17.17 | 208/3/60 | 357 | 83.1 | 450 | 5800 | 40% ETHYLENE GLYCOL FLUID, 15A CONVEINIENCE OUTLET, ELASTOMERIC ISOLATORS, 65000A HIGH FAULT BREAKER DISCONNECT, LOW SOUND ACOUSTIC PACKAGE, LOUVERED PANELS, UV RESISTANT LCD DISPLAY,BACNET MS/TP,120V 20A HX HEAT TRACING, STANDARD AMBIENT OPERATION, FACTORY STARTUP |

## UNIT VENTILATOR SCHEDULE

| TAG | SYSTEM | MANUFACTURER | MODEL | SUPPLY FAN AIRFLOW (CFM) | OUTSIDE AIR (CFM) | ESP ("W.C.) | FILTER | HEATING COIL | | | | | | | | | ELECTRICAL DATA | | | WEIGHT (LBS) | ACCESSORIES / REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | OUTPUT (MBH) | E.W.T. °F | L.W.T. °F | FLUID | FLOW (US GPM) | WATER PRESSURE DROP (FT) | L.A.T. °F | SENSIBLE (MBH) | TOTAL (MBH) | VOLTAGE | MCA | MOCP | | |
| UV1 | OFFICE | CHANGEAIR | FRESHMAN HRA IQ-B | 1,150 | 225 | 0.25 | MERV-A 13 | 40.0 | 140 | 120 | WATER | 4.0 | 1.0 | 94.0 | 25.1 | 36.0 | 120/1/60 | 7.25 | 15 | 750 | C/W TOP EXTENSION, FRONT RETURN GRILLE, INSULATED 10" OUTDOOR AIR PLENUM. CONTROL VALVE PACKAGE, SIEMENS POWERMITE 599 SERIES GLOBE VALVE, DISCONNECT, TWO SETS OF 2" MERV A FILTERS. |
| UV2 | COMMUNITY ROOM | CHANGEAIR | FRESHMAN HRA IQ-C | 2,000 | 300 | 0.25 | MERV-A 13 | 85.0 | 140 | 120 | WATER | 8.5 | 2.0 | 85.0 | 42.0 | 60.0 | 208/1/60 | 7.38 | 15 | 800 | C/W TOP EXTENSION, FRONT RETURN GRILLE, INSULATED 10" OUTDOOR AIR PLENUM. CONTROL VALVE PACKAGE, SIEMENS POWERMITE 599 SERIES GLOBE VALVE, DISCONNECT, TWO SETS OF 2" MERV A FILTERS. |
| UV3 | PRESCHOOL | CHANGEAIR | FRESHMAN HRA IQ-B | 1,200 | 350 | 0.25 | MERV-A 13 | 60.0 | 140 | 120 | WATER | 6.0 | 2.5 | 94.0 | 25.1 | 36.0 | 120/1/60 | 7.25 | 15 | 750 | C/W TOP EXTENSION, FRONT RETURN GRILLE, INSULATED 10" OUTDOOR AIR PLENUM. CONTROL VALVE PACKAGE, SIEMENS POWERMITE 599 SERIES GLOBE VALVE, DISCONNECT, TWO SETS OF 2" MERV A FILTERS. |
| UV4 | TODDLER | CHANGEAIR | FRESHMAN HRA IQ-B | 800 | 200 | 0.25 | MERV-A 13 | 40.0 | 140 | 120 | WATER | 4.0 | 1.0 | 94.0 | 16.8 | 24.0 | 120/1/60 | 7.25 | 15 | 750 | C/W TOP EXTENSION, FRONT RETURN GRILLE, INSULATED 10" OUTDOOR AIR PLENUM, SIDE PLENUM. CONTROL VALVE PACKAGE, SIEMENS POWERMITE 599 SERIES GLOBE VALVE, DISCONNECT, TWO SETS OF 2" MERV A FILTERS. |
| UV5 | INFANT | CHANGEAIR | FRESHMAN HRA IQ-B | 1,000 | 300 | 0.25 | MERV-A 13 | 60.0 | 140 | 120 | WATER | 6.0 | 2.5 | 105.0 | 25.1 | 24.0 | 120/1/60 | 7.25 | 15 | 750 | C/W TOP EXTENSION, FRONT RETURN GRILLE, INSULATED 10" OUTDOOR AIR PLENUM. CONTROL VALVE PACKAGE, SIEMENS POWERMITE 599 SERIES GLOBE VALVE, DISCONNECT, TWO SETS OF 2" MERV A FILTERS. |
| UV6 | STORAGE | CHANGEAIR | FRESHMAN HRA IQ-B | 800 | 200 | 0.25 | MERV-A 13 | 40.0 | 140 | 120 | WATER | 4.0 | 1.0 | 94.0 | 16.8 | 24.0 | 120/1/60 | 7.25 | 15 | 750 | C/W TOP EXTENSION, FRONT RETURN GRILLE, INSULATED 10" OUTDOOR AIR PLENUM. CONTROL VALVE PACKAGE, SIEMENS POWERMITE 599 SERIES GLOBE VALVE, DISCONNECT, TWO SETS OF 2" MERV A FILTERS. |

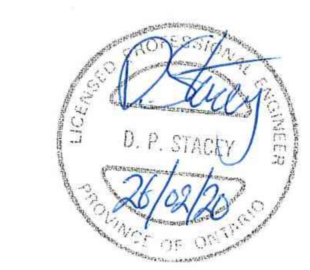
WINTER OAT=-5°F, SUMMER OAT=90°F

## PUMP SCHEDULE

| TAG | SYSTEM | MANUFACTURER | MODEL | FLUID | FLUID TEMP (°F) | FLOW (US GPM) | HEAD (FT) | RPM | ELECTRICAL DATA | | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | VOLTAGE | MOTOR | |
| P1 | HEATING BUILDING | ARMSTRONG | 4030 4x3x8 | WATER | 140 | 220 | 38 | 1800 | 208/3/60 | 5 HP | BRONZE FITTED, VFD RATED MOTOR |
| P2 | HEATING BUILDING | ARMSTRONG | 4030 4x3x8 | WATER | 140 | 220 | 38 | 1800 | 208/3/60 | 5 HP | BRONZE FITTED, VFD RATED MOTOR |
| P3 | CHILLER | ARMSTRONG | 4030 3x1.5x8 | 40% E.G. | 44 | 141.5 | 62 | 1800 | 208/3/60 | 5 HP | BRONZE FITTED, VFD RATED MOTOR |
| P4 | DHWR | GRUNDFOS | ALPHA2 | WATER | 140 | 5 | 15 | - | 120/1/60 | 0.7 A | STAINLESS STEEL, ECM MOTOR, 3 CONSTANT SPEEDS, PLUG AND LINE CORD, CHECK VALVE, AUTO ADAPT, 15 MINUTE TIMER, LED DISPLAY, BODY INSUATION |
| P5 | AHU4 - GYM | GRUNDFOS | MAGNA3 32-60 | WATER | 140 | 29.5 | 6 | 3540 | 120/1/60 | 106 W | ECM MOTOR, START/STOP, CONSTANT SPEED, BODY INSULATION, ALARM CONTACTS |
| BP1 | BOILER B1 | BY BOILER | BY BOILER | WATER | 140 | 120 | 14 | - | 120/1/60 | 5.6 A | ECM MOTOR, START/STOP, VARIABLE SPEED, BODY INSULATION, ALARM CONTACTS |
| BP2 | BOILER B2 | BY BOILER | BY BOILER | WATER | 140 | 120 | 14 | - | 120/1/60 | 5.6 A | ECM MOTOR, START/STOP, VARIABLE SPEED, BODY INSULATION, ALARM CONTACTS |

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
| 0 | BUILDING PERMIT | 18NOV2025 | DS |

seal





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DSBN
DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

SCHEDULES

| drawn by | designed by |
|---|---|
| MR | DS |
| **scale** | **date** |
| NTS | 20JUNE2025 |
| **job number** | **issue** |
| 25021 | 2 |

drawing number

M1-2

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plotted by: mreuter on Feb 20, 2026 - 9:39am

24"x36" Imperial

# FAN SCHEDULE

| TAG | SYSTEM | MANUFACTURER | MODEL | TYPE | DRIVE | AIRFLOW (CFM) | ESP ("W.C.) | ELECTRICAL DATA | | | WEIGHT (KG) | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | VOLTAGE | FLA | HP | | |
| EF1 | MAIN WASHROOM - 105 | COOK | GN-740 | SUSPENDED | DIRECT | 700 | 0.25 | 120/1/60 | - | 0.25 | | FAN SPEED CONTROL, VIBRATION ISOLATION, FLEX CONNECTOR |
| EF2 | MAIN WASHROOM - 205 | COOK | GN-740 | SUSPENDED | DIRECT | 765 | 0.25 | 120/1/60 | - | 0.25 | | FAN SPEED CONTROL, VIBRATION ISOLATION, FLEX CONNECTOR |
| EF3 | MAIN WASHROOM - 305 | COOK | GN-740 | SUSPENDED | DIRECT | 765 | 0.25 | 120/1/60 | - | 0.25 | | FAN SPEED CONTROL, VIBRATION ISOLATION |
| EF4 | WASHROOM 104 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF5 | WASHROOM 102-6 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF6 | WASHROOM 122-3 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF7 | WASHROOM 123-1 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF8 | WASHROOM 128-9 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF9 | WASHROOM 128-8 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF10 | WASHROOM 128-7 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF11 | STORAGE 128-3 | BROAN | L100 | CEILING MOUNT | DIRECT | 110 | 0.2 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF12 | GYM CHANGE/STORAGE | COOK | 120 ACED | ROOF MOUNT | DIRECT | 650 | 0.3 | 120/1/60 | | 0.125 | | MOTORIZED DAMPER, DISCONNECT, SPEED FOR BALANCING, 18" ROOF CURB. |
| EF13 | CHANGE 110-15 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, TIMER |
| EF14 | WASHROOM 309-1 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF15 | ELEVATOR 103 | COOK | 120 ACED | ROOF MOUNT | DIRECT | 600 | 0.25 | 120/1/60 | | 0.125 | | MOTORIZED DAMPER, DISCONNECT, SPEED FOR BALANCING, 18" ROOF CURB. |
| EF16 | ELECTRICAL ROOM | COOK | 120 ACED | ROOF MOUNT | DIRECT | 650 | 0.2 | 120/1/60 | | 0.125 | | MOTORIZED DAMPER, DISCONNECT, SPEED FOR BALANCING, 18" ROOF CURB. |
| EF17 | WASHROOM 208-4 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF18 | WASHROOM 208-3 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF19 | WASHROOM 208-2 | BROAN | L100 | CEILING MOUNT | DIRECT | 75 | 0.4 | 120/1/60 | 0.3 | - | 10.3 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF20 | STORAGE 128-10 | COOK | 100 ACED | ROOF MOUNT | DIRECT | 110 | 0.2 | 120/1/60 | | 0.125 | | MOTORIZED DAMPER, DISCONNECT, SPEED FOR BALANCING, 18" ROOF CURB. |
| EF21 | STORE 121 | BROAN | L300 | CEILING MOUNT | DIRECT | 300 | 0.2 | 120/1/60 | 0.7 | - | 11 | BACKDRAFT DAMPER, WHITE GRILLE, DISCONNECT, INTERLOCK FAN WITH LIGHTING CONTROLS |
| EF22 | CUSTODIAN 110-4 | COOK | 100 ACED | ROOF MOUNT | DIRECT | 200 | 0.25 | 120/1/60 | 0.3 | 0.125 | | MOTORIZED DAMPER, DISCONNECT, SPEED FOR BALANCING, 18" ROOF CURB. |
| EF23 | WASHROOM 110-9 | COOK | 100 ACED | ROOF MOUNT | DIRECT | 300 | 0.25 | 120/1/60 | | 0.125 | | MOTORIZED DAMPER, DISCONNECT, SPEED FOR BALANCING, 18" ROOF CURB. |
| EF24 | JANITOR 130 / RECYCLE | COOK | 100 ACED | ROOF MOUNT | DIRECT | 200 | 0.25 | 120/1/60 | 0.3 | 0.125 | | MOTORIZED DAMPER, DISCONNECT, SPEED FOR BALANCING, 18" ROOF CURB. |
| RH1 | GYM SERVERY | BROAN | BKDF | UNDERCABINET | DIRECT | 300 | 0.25 | 120/1/60 | 2.0 A | - | - | BACKDRAFT DAMPER, DISCONNECT SWITCH, WALL BOX, LAMPS, COLOUR BY ARCHITECT |
| RH2 | DAYCARE | BROAN | BKDF | UNDERCABINET | DIRECT | 300 | 0.25 | 120/1/60 | 2.0 A | - | - | BACKDRAFT DAMPER, DISCONNECT SWITCH, WALL BOX, LAMPS, COLOUR BY ARCHITECT |
| RH3 | COMMUNITY ROOM | BROAN | BKDF | UNDERCABINET | DIRECT | 300 | 0.25 | 120/1/60 | 2.0 A | - | - | BACKDRAFT DAMPER, DISCONNECT SWITCH, WALL BOX, LAMPS, COLOUR BY ARCHITECT |
| CF1 | GYM | CANARM | CF56 F&R | CEILING FAN | DIRECT | - | - | 120/1/60 | - | - | - | REVERSIBLE AND VARIABLE SPEED MOTOR, C/W MC SERIES SPEED CONTROLLER, ELECTRICAL OUTLET, CORD AND PLUG, WIRE CAGE GUARD |
| CF2 | GYM | CANARM | CF56 F&R | CEILING FAN | DIRECT | - | - | 120/1/60 | - | - | - | REVERSIBLE AND VARIABLE SPEED MOTOR, C/W MC SERIES SPEED CONTROLLER, ELECTRICAL OUTLET, CORD AND PLUG, WIRE CAGE GUARD |

# VARIABLE AIR VOLUME BOX SCHEDULE

| TAG | LOCATION | SYSTEM | MANUFACTURER | MODEL | VALVE INLET (IN) | INLET STATIC PRESSURE (IN WC) | DESIGN COOLING AIR FLOW (CFM) | MIN. COOLING AIR FLOW (CFM) | VALVE HEATING AIRFLOW (CFM) | PRESSURE DROP AT COOLING AIRFLOW | HEATER OUTPUT (KW) | ELECTICAL | | | WEIGHT (LBS) | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | VOLTAGE | MCA | MOCP | | |
| VAV1 | 112 | AH1 | TRANE | VCEF | 6 | 0.1 | 150 | 100 | 150 | 0.05 | 1.5 KW | 208/3/60 | | 15 | - | 1.5 KW ELECTRIC HEATER, SCR CONTROL, SAFTEIES, 24VAC TMR, FLOW RING, DISCONNECT, MANUAL RESET, ACOUSTIC INSULATION |

# FAN POWERED BOX SCHEDULE

| TAG | LOCATION | MANUFACTURER | MODEL | VALVE INLET (IN) | COOLING | | | HEATING | | | | | | | | | SUPPLY FAN | | | | ELECTICAL | | | WEIGHT (LBS) | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | MAX. DESIGN AIR FLOW (CFM) | MIN. DESIGN AIR FLOW (CFM) | VALVE PRESSURE DROP | FP VAV FAN AIR FLOW (CFM) | VALVE AIRFLOW (CFM) | PRIMARY AIR TEMPERATURE (°F) | PLENUM AIR TEMPERATURE (°F) | COIL E.A.T. (°F) | L.A.T. (°F) | OUTPUT (MBH) | USGPM | WPD (FT) | AIR FLOW (CFM) | T.S.P. (IN. W.C.) | E.S.P. (IN. W.C.) | MOTOR (HP) | VOLTAGE | MCA | MOCP | | |
| FB1-1 | 113 | TRANE | VSWF | 6 | 300 | 100 | 0.10 | 300 | 160 | 60 | 72 | 65 | 95 | 10.0 | 1 | 0.5 | 300 | 0.22 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-2 | 109 | TRANE | VSWF | 8 | 700 | 400 | 0.10 | 1000 | 600 | 60 | 72 | 65 | 87 | 17.5 | 1.5 | 1.6 | 1000 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-3 | 108 | TRANE | VSWF | 8 | 700 | 400 | 0.10 | 1000 | 600 | 60 | 72 | 65 | 87 | 17.5 | 1.5 | 1.6 | 1000 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-4 | 107 | TRANE | VSWF | 8 | 700 | 400 | 0.10 | 1000 | 600 | 60 | 72 | 65 | 87 | 17.5 | 1.5 | 1.6 | 1000 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-5 | 106 | TRANE | VSWF | 8 | 700 | 400 | 0.10 | 1000 | 600 | 60 | 72 | 65 | 87 | 17.5 | 1.5 | 1.6 | 1000 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-6 | 105 | TRANE | VSWF | 8 | 700 | 400 | 0.10 | 1000 | 600 | 60 | 72 | 65 | 87 | 17.5 | 1.5 | 1.6 | 1000 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-7 | 122 | TRANE | VSWF | 10 | 700 | 400 | 0.10 | 1100 | 600 | 60 | 72 | 65 | 87 | 17.5 | 1.5 | 1.6 | 1100 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-8 | 123 | TRANE | VSWF | 10 | 700 | 400 | 0.10 | 1100 | 600 | 60 | 72 | 65 | 87 | 17.5 | 1.5 | 1.6 | 1100 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-9 | LOBBY | TRANE | VSWF | 12 | 1300 | 200 | 0.10 | 1500 | 200 | 60 | 72 | 65 | 87 | 33.5 | 4 | 2 | 1650 | 0.26 | 0.25 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-9 | 117 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-10 | 118 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-11 | 115 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB1-12 | 116 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-1 | 202 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-2 | 203 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-3 | 207 | TRANE | VSWF | 5 | 200 | 50 | 0.10 | 200 | 100 | 60 | 72 | 65 | 95 | 6.6 | 1 | 0.5 | 200 | 0.22 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-4 | 208 | TRANE | VSWF | 6 | 300 | 100 | 0.10 | 300 | 200 | 60 | 72 | 65 | 95 | 10.0 | 1 | 0.5 | 300 | 0.22 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-5 | 220 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-6 | 219 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-7 | 218 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-8 | 217 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-9 | 209 | TRANE | VSWF | 8 | 700 | 400 | 0.10 | 1000 | 600 | 60 | 72 | 65 | 87 | 17.5 | 1.5 | 1.6 | 1000 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-10 | 212 | TRANE | VSWF | 10 | 1000 | 400 | 0.10 | 1200 | 400 | 60 | 72 | 65 | 95 | 37.5 | 4 | 2 | 1200 | 0.30 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB2-11 | 212 | TRANE | VSWF | 10 | 1000 | 400 | 0.10 | 1200 | 400 | 60 | 72 | 65 | 95 | 32.5 | 4 | 2 | 1200 | 0.30 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-1 | 302 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-2 | 303 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-3 | 307 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-4 | 308 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-5 | 320 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-6 | 319 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-7 | 318 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-8 | 317 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-9 | 316 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-10 | 315 | TRANE | VSWF | 8 | 600 | 400 | 0.10 | 800 | 600 | 60 | 72 | 65 | 87 | 16.0 | 1.5 | 1.6 | 800 | 0.26 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |
| FB3-11 | 309 | TRANE | VSWF | 5 | 200 | 50 | 0.10 | 200 | 100 | 60 | 72 | 65 | 95 | 6.6 | 1 | 0.5 | 200 | 0.22 | 0.20 | 1/3 | 120/1/60 | 9.1 | 15 | 95 | |

EWT=140°F, LWT=120F°

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plotted by: mreuter on Feb 20, 2026 - 9:39am

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
| 0 | BUILDING PERMIT | 18NOV2025 | DS |

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PROVINCE OF ONTARIO


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| scale | date |
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| NTS | 20JUNE2025 |

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| 25021 | 2 |

drawing number

M1-3

## PLUMBING FIXTURE SCHEDULE

| TAG | DHW (IN) | DCW (IN) | DRAIN (IN) | DESCRIPTION |
|---|---|---|---|---|
| TF1 | - | 1 | 3 | · TOILET - AMERICAN STANDARD MODEL #3451.001 - MADERA FLOWISE FLUSHOMETER, 15" HEIGHT, VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, LOW CONSUMPTION (4.8 Lpf).<br>· FLUSH VALVE - FLUSH VALVE - DELTA MODEL #81T201-48 - MANUAL OPERATED, TOP SPUD, 4.69 Lpf, ADA COMPLIANT. SUPPLY PRESSURE OPERATION 20PSIG-125PSIG.<br>· SEAT - AMERICAN STANDARD MODEL #5901.100 - HEAVY DUTY, OPEN FRONT, LESS COVER. |
| TFA1 | - | 1 | 3 | · TOILET - AMERICAN STANDARD MODEL #3043.001 - MADERA FLOWISE, 16-1/2" HEIGHT, VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, LOW CONSUMPTION (4.8 Lpf), ADA COMPLIANT.<br>· FLUSH VALVE - DELTA MODEL #81T221HWA - ELECTRONIC OPERATED WITH H2Optics, TOP SPUD, HARD WIRED, 4.8 Lpf, ADA COMPLIANT. SUPPLY PRESSURE OPERATION 20PSIG-125PSIG.<br>· SEAT - AMERICAN STANDARD MODEL #5901.100 - HEAVY DUTY, OPEN FRONT WITH COVER. |
| TT1 | - | 1/2 | 3 | · TOILET - AMERICAN STANDARD MODEL #215CA.104 - CADET PRO, 15" HEIGHT, VITREOUS CHINA, ELONGATED BOWL, LINED TANK, LOW CONSUMPTION (4.8 Lpf).<br>· SEAT - BEMIS MODEL #2055SSCT - OPEN FRONT, LESS COVER. |
| UR1 | - | 3/4 | 2 | · URINAL - AMERICAN STANDARD MODEL #6590.001 - WASHBROOK FLOWISE, VITREOUS CHINA, 3/4" BACK SPUD, 2" STAINLESS STEEL STRAINER OUTLET PACKAGE, INTEGRAL TRAP, STAINLESS CLEANOUT, ADA COMPLIANT.<br>· FLUSH VALVE: NONE. FLUSH BY SOLENOID VALVE AND TIMER. REFER TO DETAIL ON DRAWINGS<br>· URINAL HEIGHT TO BE 18" ABOVE FINISHED FLOOR TO RIM.<br>· PROVIDE COMPLETE WITH ZURN Z1222 WALL CARRIER. |
| UR2 | - | 3/4 | 2 | · URINAL - AMERICAN STANDARD MODEL #6590.001 - WASHBROOK FLOWISE, VITREOUS CHINA, 3/4" BACK SPUD, 2" STAINLESS STEEL STRAINER OUTLET PACKAGE, INTEGRAL TRAP, STAINLESS CLEANOUT, ADA COMPLIANT.<br>· FLUSH VALVE: NONE. FLUSH BY SOLENOID VALVE AND TIMER. REFER TO DETAIL ON DRAWINGS<br>· URINAL HEIGHT TO BE 14" ABOVE FINISHED FLOOR TO RIM.<br>· PROVIDE COMPLETE WITH ZURN Z1222 WALL CARRIER. |
| LV1 | 1/2 | 1/2 | 1-1/2 | · LAVATORY - FRANKE COMMERCIAL MODEL #OV1619/6/3 - DROP-IN VANITY, 18 GAUGE, TYPE 304 STAINLESS STEEL, MIRROR FINISHED RIM WITH SATIN FINISHED BOWL, BOWL SIZE IS 11"x15-3/16"x6" DEEP, THREE HOLES FOR FAUCET, OFFSET VANDAL PROOF OPEN GRID STRAINER, UNDERCOATED SOUND REDUCTION, TRAP AND CLEAN OUT<br>· FAUCET - DELTA MODEL #87T111 - METERING, ONE LEVER HANDLE, 4" CENTERS, HEAVY DUTY CAST BRASS, 87T151 DECK PLATE, WITH ANTI-ROTATION PINS, ADA COMPLIANT. MAX FLOW 1.9L/MIN. |
| LV2 | 1/2 | 1/2 | 1-1/4 | · LAVATORY - AMERICAN STANDARD MODEL #0355.012 - LUCERNE, 4" CENTERS, WALL HUNG, VITREOUS CHINA, FRONT OVERFLOW, SELF DRAINING DECK AREA , CONCEALED ARM SUPPORT, ADA COMPLIANT.<br>· FAUCET - DELTA MODEL #87T111 - METERING, ONE LEVER HANDLE, 4" CENTERS, HEAVY DUTY CAST BRASS, 87T151 DECK PLATE, ADA COMPLIANT, WITH ANTI ROTATION PINS. MAX FLOW 1.9L/MIN. |
| LVA1 | 1/2 | 1/2 | 1-1/4 | · LAVATORY - AMERICAN STANDARD MODEL #0955.004EC - MURRO, 4" CENTERS, WALL HUNG, VITREOUS CHINA, FRONT OVERFLOW, SELF DRAINING DECK AREA , ADA COMPLIANT, C/W CONCEALED ARM CARRIER, 0059 020EC SHROUD/KNEE CONTACT GUARD.<br>· FAUCET - DELTA MODEL #87T111 - METERING, ONE LEVER HANDLE, 4" CENTERS, HEAVY DUTY CAST BRASS, 87T151 DECK PLATE, WITH ANTI-ROTATION PINS, ADA COMPLIANT. MAX FLOW 1.9L/MIN. |
| S1 | 1/2 | 1/2 | 1-1/4 | · SINK - FRANKE MODEL #LBS6808P-1/3 - SINGLE BOWL, 18 GAUGE, TYPE 304 STAINLESS STEEL, SELF RIMMING, SATIN FINISH, OVERALL SIZE 520mm x 510mm x 200mm (20-1/2" x 20" x 8").<br>· FAUCET - MOEN MODEL #7425 - ONE HANDLE DECK FAUCET. SOLID METAL CONSTRUCTION, CHROME FINISH, DECK PLATE, 5.7L/MIN. |
| S2 | 1/2 | 1/2 | 1-1/4 | · SINK - FRANKE MODEL #LBD6408P-1/3 - DOUBLE BOWL, 18 GAUGE, TYPE 304 STAINLESS STEEL, SELF RIMMING, SATIN FINISH, OVERALL SIZE 520mm x 800mm x 200mm (20-1/2" x 31-1/4" x 8").<br>· FAUCET - MOEN MODEL #7425 - ONE HANDLE DECK FAUCET. SOLID METAL CONSTRUCTION, CHROME FINISH, DECK PLATE, 5.7L/MIN. |
| S3 | 1/2 | 1/2 | 1-1/4 | · SINK - ACORN DSW260 DELUXE TROUGH HAND WASHING SINK. STAINLESS STEEL, FULL LENGTH TRAP COVER.<br>· FAUCET - DELTA MODEL 87T905 ADA LEVER METERING FAUCET. (QTY 2). PER SINK, 1.32L/MIN.<br>· TRAP - DELTA TECK 33T311. SUPPLIES - DELTA TECK 47T2312SD. |
| FD | - | - | 3 | · FLOOR DRAIN - ZURN MODEL #ZN-211-B-P - CAST IRON FLOOR DRAIN WITH 5" ROUND (SQUARE FOR TILED SURFACES) NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION. |
| FFD | - | - | 3 | · FUNNEL FLOOR DRAIN - ZURN MODEL #ZN-211-BE5-P - CAST IRON FUNNEL FLOOR DRAIN WITH 4" ROUND FUNNEL, 4" ROUND NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION. |
| HD | - | - | 2 | · HUB DRAIN - ZURN MODEL #ZN-211-B-P - CAST IRON HUB DRAIN WITH 5" ROUND NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION. |
| CO | - | - | AS NOTED | · FLOOR CLEAN OUT - ZURN MODEL #ZN-1602 - DURA-COATED CAST IRON BODY WITH NEOPRENE BODY SLEEVE, POLISHED NICKLE BRONZE ADJUSTABLE HEAD AND GASKETED SCORIATED COVER AND STAINLESS STEEL SCREWS<br>· STACK CLEAN OUT - ZURN MODEL #Z1445 - CLEAN OUT TEE C/W DURA-COATED CAST IRON BODY AND GAS AND WATER TIGHT ABS TAPERED THREAD PLUG<br>· LINE CLEAN OUT - ZURN MODEL # Z1440 - CLEAN OUT FERRULE C/W DURA-COATED CAST IRON BODY AND GAS AND WATER TIGHT ABS TAPERED THREAD PLUG<br>· URINAL CLEAN OUT - ZURN MODEL #Z-1666-1 - C/W 4" STAINLESS STEEL ACCESS COVER AND CENTER SECURING SCREW<br>· WALL CLEAN OUT - ZURN MODEL #Z-1446 - DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT ABS TAPERED THREAD PLUG C/W MODEL #Z1460 SQUARE WALL ACCESS COVER |
| MSB1 | 1/2 | 1/2 | 3 | · MOP SERVICE BASIN - ZURN MODEL #Z1996-24 - 24"X24"X10", MOLDED HIGH DENSITY COMPOSITE, PVC DRAIN BODY AND STAINLESS STEEL DONE STRAINER, STAINLESS STEEL BUMPER GUARD, HOSE AND HOUSE BRACKET, MOP HANGER, STAINLESS STEEL WALL GUARD<br>· FAUCET - ZURN MODEL #Z843M1 - CHROME PLATED BRASS CONSTRUCTION, 2-1/2" COLOUR-CODED LEVER HANDLES, ATMOSPHERIC VACUUM BREAKER, 3/4" THREADED HOSE OUTLET, PAIL HOOK AND ADJUSTABLE WALL BRACE |
| LT1 | 1/2 | 1/2 | 2 | ·MULTI-PURPOSE SINK - ZURN MODEL #MS2620-F-DF1, 23"x26"x34", POLYPROPYLENE COMPOSITE, C/W DUAL HANDLE DECK FAUCET, COATED STEEL SELF-LEVELING LEGS. |
| TSP1 | - | 1/2 | - | · TRAP PRIMER - ZURN MODEL #Z1020XL-10 - ELECTRONIC, LEAD FREE, FACTORY PROGRAMMED SIX SECOND WATER INJECTION EVERY 24 HOURS, SLOW CLOSING SOLENOID VALVE, BRASS ATMOSPHERIC VACUUM BREAKER, 10 PORT, MALE PEX OUTLET CONNECTIONS. SURFACE MOUNTED CABINET.<br>· BALL ISOLATION VALVE ON EACH OUTLET PORT<br>· 3/8" UNDERGROUND PEX WATER LINE TO EACH TRAP. |
| TSP2 | - | 1/2 | - | · TRAP PRIMER - WATTS DRAINAGE MODEL #MS-810.<br>· BALL ISOLATION VALVE ON EACH OUTLET PORT.<br>· 3/8" UNDERGROUND PEX WATER LINE TO EACH TRAP. |
| TMV1 | 1 | - | - | · THERMOSTATIC MIXING VALVE - BRADLEY MODEL S59-3080 - C/W DIAL THERMOMETER AND WALL MOUNTING BRACKET.<br>· SUPPLY DHW AT 120ºF AND DHTW AT 140ºF. |
| DF1 | - | 3/8 | 1-1/4 | · DRINKING FOUNTAIN - MURDOCK MODEL #A191400S-BF11-WF1 BOTTLE FILLING STATION, STAINLESS STEEL STEEL BASIN WITH INTEGRAL DRAIN, LEAD-FREE SATIN FLEXIBLE RUBBER BUBBLER, BOTTLE FILLER, C/W IN-WALL CARRIER, STAINLESS BACK PANEL, SHUTOFF VALVE, LEAD REDUCTION FILTER. |
| HB1 | - | 3/4 | - | · WATTS DRAINAGE MODEL #HY-725. CONCEALED NON-FREEZE KEY OPERATED WALL HYDRANT WITH NICKEL BRONZE BOX AND DOOR, CHROME PLATED HYDRANT FACE, INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTIONS. BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS. GALVANIZED CASING AND HYDRANT KEY. LENGTH TO SUIT WALL THICKNESS. |
| HB2 | - | 1/2 | - | · BALL VALVE C/W FAUCET HOSE CONNECTION, BRASS CAP AND CHAIN. |
| RD# | | | - | · ROOF DRAIN - THALER MODEL #RDX30-A - 15" DIAMETER, ALUMINUM BODY AND CAST ALUMINUM STRAINER. SIZE TO MATCH PIPE SIZE. # DENOTES SIZE. |
| DW | 1/2 | - | - | · DISHWASHER - SUPPLIED AND INSTALLED BY OTHERS. CONNECT HOT WATER SUPPLY TO KITCHEN SINK HOT WATER LINE<br>C/W SHUTOFF VALVE AND CONNECT DRAIN TO KITCHEN SINK DRAIN UPSTREAM OF P-TRAP. FOLLOW MANUFACTURER'S INSTRUCTIONS. |
| WMV1 | 1/2 | 1/2 | 1-1/2 | · WASHING MACHINE VALVE - OATEY MODEL CENTRO II - WASHING MACHINE OUTLET BOX. PVC CONSTRUCTION, 2 KNOCKOUT DRAIN CAPS, 2" SOCKET HUBS.<br>CONFIRM WITH WASHING MACHINE SHOP DRAWINGS. |
| ED | | | 3 | · SIDE WALL DRAIN. ZURN MODEL Z628, CAST IRON WITH STRAINER. |
| EW1 | 1/2 | 1/2 | 1 | · EYEWASH - BRADLEY MODEL #S19224. WALL-MOUNTED, ADA COMPLIANT HALO EYE/FACE WASH, CHROME PLATED BRASS VALVE, TYPE 304 STAINLESS STEEL BOWL, WALL BRACKET, C/W BRADLEY S19-2000 EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE TO DELIVER HOT WATER AT 85°F MAXIMUM. |
| WT | 1/2 | 1/2 | 1-1/2 | · WATER TABLE - PROVIDED BY GENERAL CONTRACTOR<br>· FAUCET - MOEN #8287 DECK MOUNT, 203mm CENTERS, 216mm SWING GOOSENECK, 64mm LEVER HANDLES, CHROME PLATED.<br>· MCQUIRE #8912CB - P-TRAP, HEAVY CAST BRASS |
| NOTES: | 1) WETTED SURFACE OF PRODUCTS TO CONTAIN LESS THAN 0.25% LEAD BY WEIGHT.<br>2) FIXTURE STOPS: DAHL MINI BALL 1/4 TURN. OPERATING TEMP 40°-140°F, 125 PSI. | | | |

## CABINET HEATER

| TAG | SYSTEM | MANUFACTURER | MODEL | TYPE | OUTPUT (MBH) | AIRFLOW (CFM) | FLUID | FLOW (US GPM) | WATER PRESS. DROP (FT) | E.W.T. (°F) | L.W.T. (°F) | ELECTRICAL DATA VOLTAGE | AMPS | MOCP | LxHxD (INCHES) | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CH1 | 10-1 | ROSEMEX | F-600-C | SURFACE | 33 | 600 | WATER | 3.6 | 1.2 | 140 | 110 | 120/1/60 | 3.8 | 15 | 51X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH2 | 110 | ROSEMEX | F-400-C | SURFACE | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, 16 GA ENCLOSURE, FILTER, DISCONNECT SWITCH, POWDER COAT PAINT, ECM MOTOR 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH3 | 110-1 | ROSEMEX | F-600-C | SURFACE | 33 | 600 | WATER | 3.6 | 1.2 | 140 | 110 | 120/1/60 | 3.8 | 15 | 51X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH4 | 110-7 | ROSEMEX | F-800-C | SURFACE | 41 | 800 | WATER | 5 | 2.5 | 140 | 110 | 120/1/60 | 2.4 | 15 | 64X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH5 | KINDER | ROSEMEX | F-400-C | SURFACE | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH6 | STAIRWELL | ROSEMEX | F-800-C | SURFACE | 41 | 800 | WATER | 5 | 2.5 | 140 | 110 | 120/1/60 | 2.4 | 15 | 64X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH7 | 110-16 | ROSEMEX | F-400-C | SURFACE | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH8 | KINDER | ROSEMEX | F-400-C | SURFACE | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH9 | KINDER | ROSEMEX | F-400-C | SURFACE | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH10 | KINDER | ROSEMEX | F-400-C | SURFACE | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH11 | KINDER | ROSEMEX | F-400-C | SURFACE | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH12 | MAIN VEST | ROSEMEX | F-800-C | SEMI RECESS | 41 | 800 | WATER | 5 | 2.5 | 140 | 110 | 120/1/60 | 2.4 | 15 | 64X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH13 | STAIRWELL | ROSEMEX | F-800-C | SURFACE | 41 | 800 | WATER | 5 | 2.5 | 140 | 110 | 120/1/60 | 2.4 | 15 | 64X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH14 | 100-8 | ROSEMEX | F-600-C | SURFACE | 33 | 600 | WATER | 3.6 | 1.2 | 140 | 110 | 120/1/60 | 3.8 | 15 | 51X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH15 | 128 | ROSEMEX | F-400-C | SURFACE | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH16 | 128-1 | ROSEMEX | F-400-C | SEMI RECESS | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |
| CH17 | 128-10 | ROSEMEX | F-400-C | SURFACE | 21 | 400 | WATER | 2.5 | 0.5 | 140 | 110 | 120/1/60 | 1.2 | 15 | 42X26X10 | ARRANGEMENT RW-2, FRONT TOP OUTLET, FRONT BOTTOM INLET, DISCONNECT SWITCH, POWDER COAT PAINT, 3-SPEED WITH OFF SWITCH, INTEGRAL THERMOSTAT. LIMIT SET POINT TO 60°F. |

## GRAVITY HOOD

| TAG | SYSTEM | MANUFACTURER | MODEL | TYPE | AIRFLOW (CFM) | PRESSURE DROP (" W.C.) | HOOD SIZE (IN) | HOOD VELOCITY (FPM) | THROAT SIZE (IN) | THROAT VELOCITY (FPM) | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GH1 | UV1 | VENTEX | GVI | INTAKE | 1,200 | 0.09 | 12x18 | 800 | 25x38 | 235 | C/W HINGED HOOD, BIRD SCREEN AND 18" ROOF CURB. |
| GH2 | UV2 | VENTEX | GVI | INTAKE | 2,000 | 0.08 | 16x24 | 750 | 32x47 | 260 | C/W HINGED HOOD, BIRD SCREEN AND 18" ROOF CURB. |
| GH3 | UV6 | VENTEX | GVI | INTAKE | 800 | 0.04 | 12x18 | 535 | 25x38 | 160 | C/W HINGED HOOD, BIRD SCREEN AND 18" ROOF CURB. |
| GH4 | EF15 | VENTEX | GVI | INTAKE | 800 | 0.04 | 12x18 | 535 | 25x38 | 160 | C/W HINGED HOOD, BIRD SCREEN AND 18" ROOF CURB. |

## EXPANSION TANK SCHEDULE

| TAG | SYSTEM | MANUFACTURER | FLUID | MODEL | TANK VOLUME (US GAL) | ACCEPTANCE VOLUME (US GAL) | INITIAL CHARGE PRESSURE (PSIG) | FINAL PRESSURE (PSIG) | WEIGHT SHIPPING/OPERATING (KG) | ACCESSORIES / REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| ET1 | HYDRONIC HEATING | AMTROL | WATER | 300-L | 80 | 80 | 15 | 45 | 105/405 | VERTICAL FLOOR MOUNTED, ASME VIII DIV.1, SEISMIC RESTRAINTS, REPLACEABLE BLADDER |
| ET2 | HYDRONIC HEATING | AMTROL | WATER | 300-L | 80 | 80 | 15 | 45 | 105/405 | VERTICAL FLOOR MOUNTED, ASME VIII DIV.1, SEISMIC RESTRAINTS, REPLACEABLE BLADDER |
| ET3 | CHILLWED WATER | AMTROL | 40% ETHYLENE GLYCOL | 200-L | 53 | 53 | 15 | 40 | 86/286 | VERTICAL FLOOR MOUNTED, ASME VIII DIV.1, SEISMIC RESTRAINTS, REPLACEABLE BLADDER |
| ET4 | DOMESTIC HOT WATER | AMTROL | DOMESTIC HOT WATER | ST-12C | - | - | 12 | | - | INLINE, ASME LABLED |

## HOT WATER UNIT HEATER SCHEDULE

| TAG | SYSTEM | MANUFACTURER | MODEL | TYPE | OUTPUT TOTAL (MBH) | AIRFLOW (CFM) | FLUID | FLOW (US GPM) | WATER PRESSURE DROP (FT) | E.W.T. (°F) | L.W.T. (°F) | ELECTRICAL DATA VOLTAGE | HP | ACCESSORIES/REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UH1 | SERVICE ROOM 211 | TRANE | S-72 | HORIZONTAL | 208 | 950 | WATER | 5.3 | 1.0 | 140 | 120 | 120/1/60 | 1/12 | C/W ADJUSTABLE LOUVER, FAN GUARD, WALL MOUNTED 120V THERMOSTAT, DISCONNECT. |
| UH2 | SERVICE ROOM 311 | TRANE | S-72 | HORIZONTAL | 208 | 950 | WATER | 5.3 | 1.0 | 140 | 120 | 120/1/60 | 1/12 | C/W ADJUSTABLE LOUVER, FAN GUARD, WALL MOUNTED 120V THERMOSTAT, DISCONNECT. |


| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
| 0 | BUILDING PERMIT | 18NOV2025 | DS |

seal

LICENSED PROFESSIONAL ENGINEER
D. P. STACEY
26/02/20
PROVINCE OF ONTARIO



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All construction to be in accordance with the current Ontario Building Code and all applicable Ontario regulations.

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DSBN
DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

SCHEDULES


drawn by: MR
designed by: DS
scale: NTS
date: 20JUNE2025
job number: 25021
issue: 2
drawing number: M1-4

24"x36" Imperial

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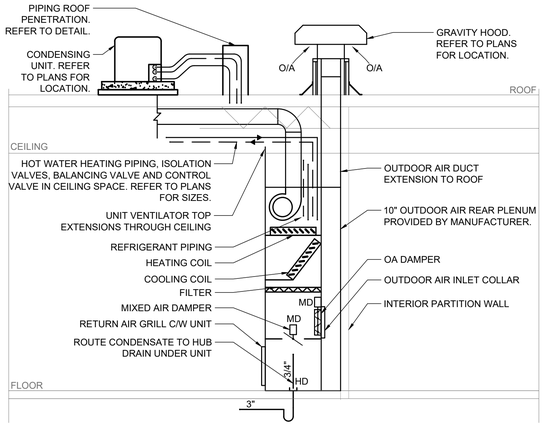
plotted by: mreuter on Feb 20, 2026 - 9:39am




## UNIT VENTILATOR INTERIOR WALL INSTALLATION DETAIL
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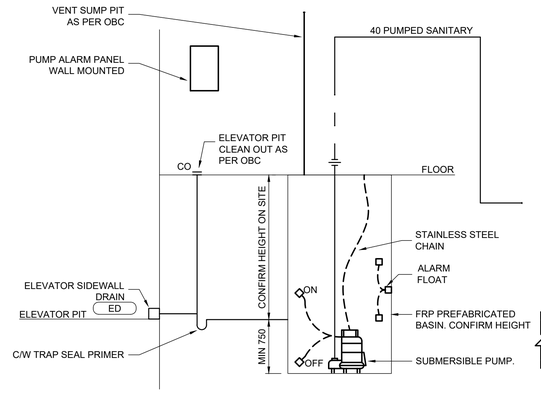


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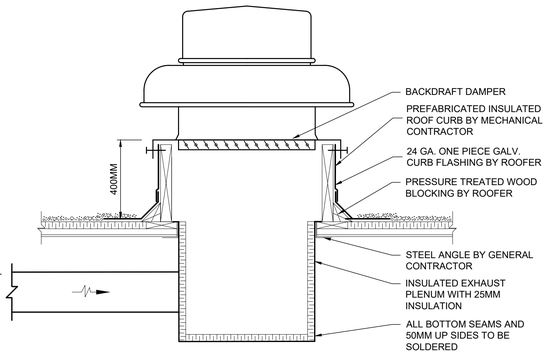


## ROOF MOUNTED EXHAUST FAN DETAIL
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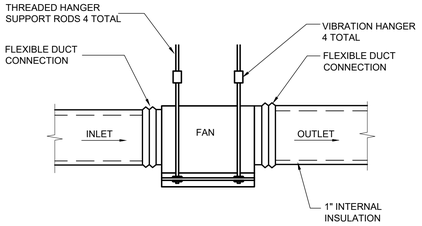


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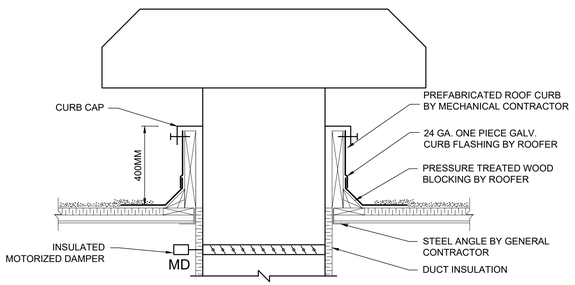


## GRAVITY HOOD DETAIL
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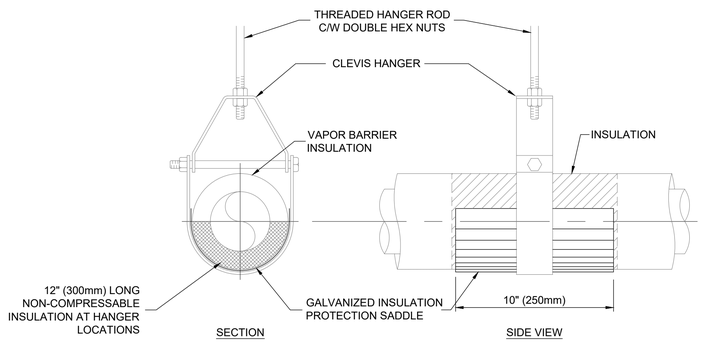


## INSULATED PIPE HANGER DETAIL
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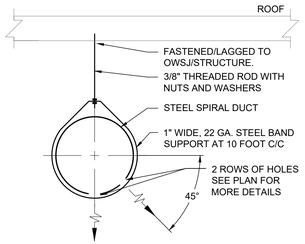


## GYM ROUND DUCT DETAIL
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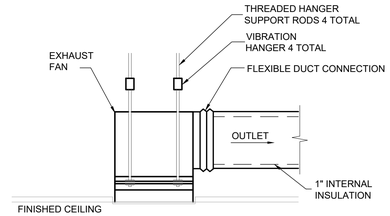


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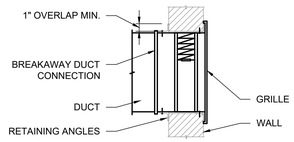


## FIRE DAMPER DETAIL - TYPE A AT GRILLE
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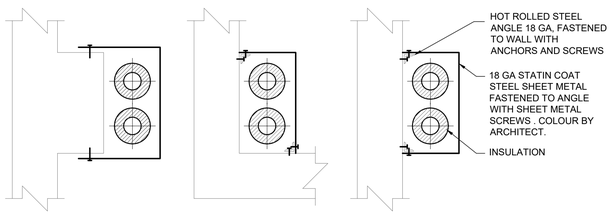


## PIPING WALL ENCLOSURE DETAIL
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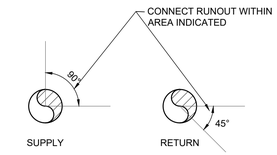


## HYDRONIC PIPE RUNOUT DETAIL
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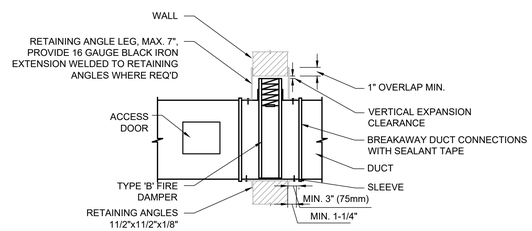


## FIRE DAMPER DETAIL - TYPE B
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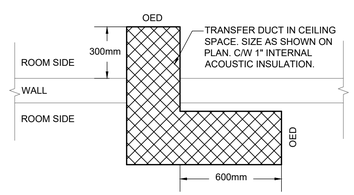


## TRANSFER AIR DUCT DETAIL
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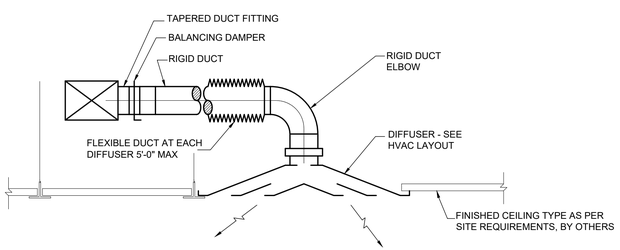
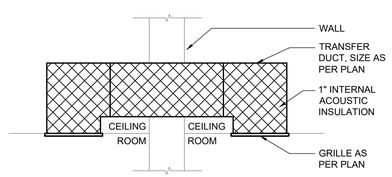
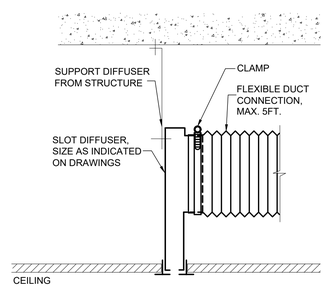



## SQUARE DIFFUSER CONNECTION DETAIL
SCALE: N.T.S.




## TRANSFER AIR DUCT DETAIL (GRILLE ON EACH SIDE)
SCALE: N.T.S.




## SLOT DIFFUSER SUPPLY AIR
SCALE: N.T.S

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

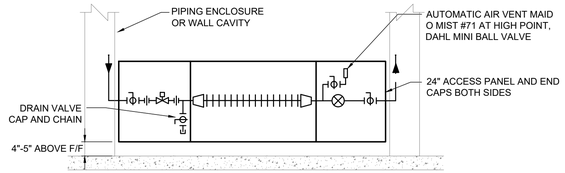
MECHANICAL DETAILS

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| NTS | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

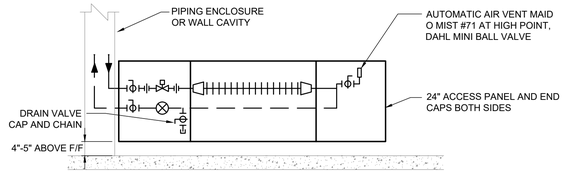
drawing number

M1-5

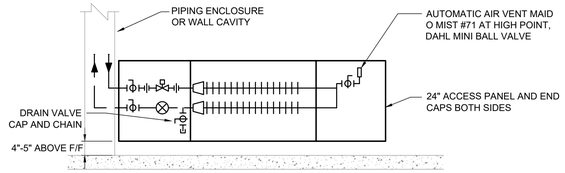
24"x36" Tabloid
C:\Users\mreuter\AppData\Local\Temp\AcPublish_30172\2021 - Mech.dwg, drawing tab: M1-5
plotted by: mreuter on Feb 20, 2026 - 9:39am




DOWN FEED - ONE ROW (OPPOSING SIDES)



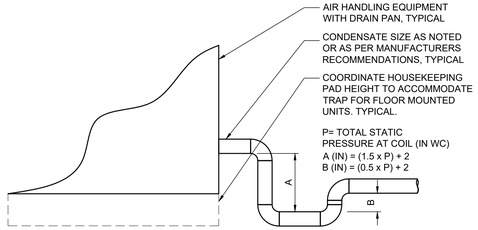

DOWN FEED - ONE ROW (SAME SIDES)



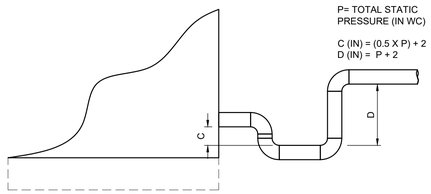

DOWN FEED - TWO ROWS (SAME SIDES)

NOTES:
1) SEE PLAN FOR PIPE SIZES
2) MINIMUM CONNECTION SIZE 3/4Ø (UNLESS OTHERWISE NOTED)
3) REFER TO WALL FIN SCHEDULE FOR BALANCING VALVE (CBV SIZE)
4) CONTROL VALVE MAXIMUM PRESSURE DROP IS 1.0 PSI

WALL FIN PIPING DETAILS
SCALE: N.T.S

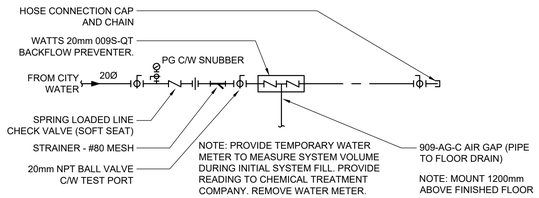



NEGATIVE PRESSURE TRAP / DRAW THROUGH COIL

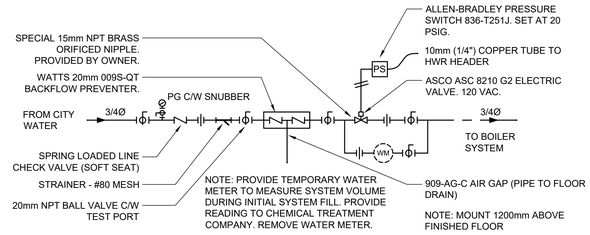



POSITIVE PRESSURE TRAP / BLOW THROUGH COIL

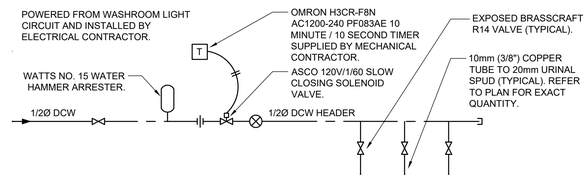
DRAIN PAN TRAP DETAIL
SCALE: N.T.S



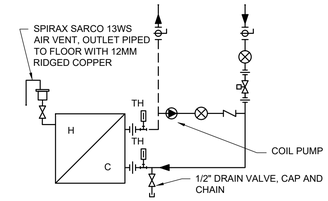

GLYCOL WATER MAKE-UP PIPING DETAIL
SCALE: N.T.S



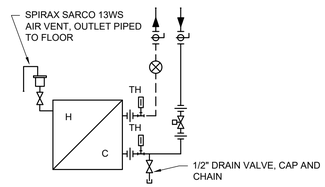

BOILER WATER MAKE-UP PIPING DETAIL
SCALE: N.T.S



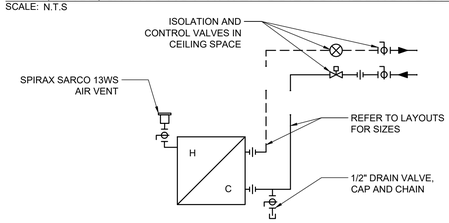

URINAL FLUSH SCHEMATIC
SCALE: N.T.S



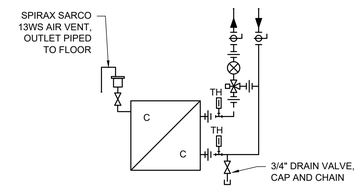

AHU4 HOT WATER COIL CONNECTION DETAIL
SCALE: N.T.S




AHU1, AHU2, & AHU3 HOT WATER COIL CONNECTION DETAIL
SCALE: N.T.S




UNIT VENTILATOR COIL CONNECTION DETAIL
SCALE: N.T.S




AHU CHILLED WATER COIL CONNECTION DETAIL
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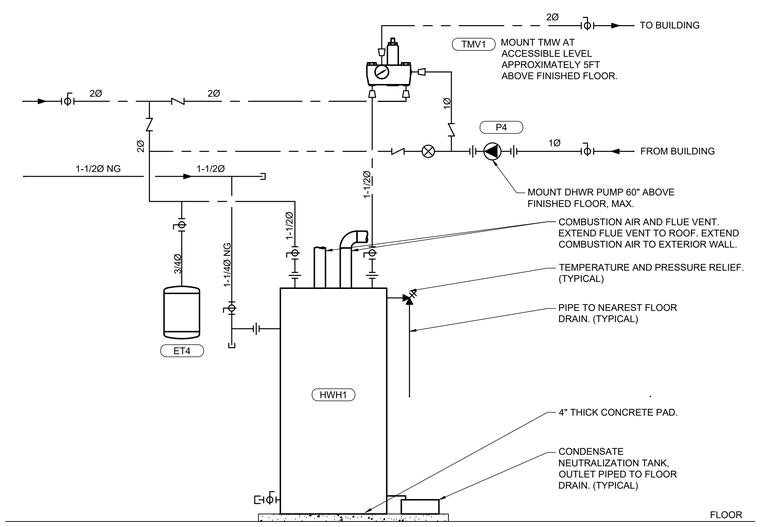
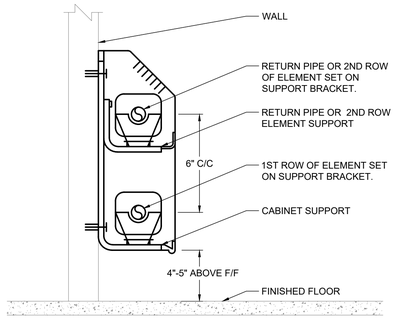
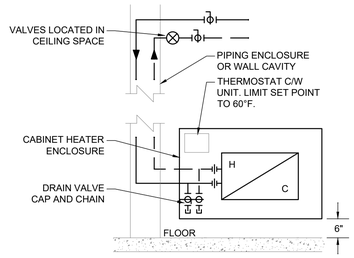


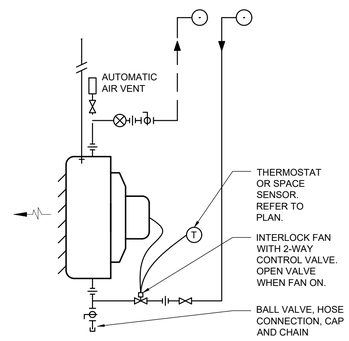

DOMESTIC HOT WATER HEATING PIPING SCHEMATIC
SCALE: N.T.S.




WALL FIN SECTION DETAIL
SCALE: N.T.S




CABINET HEATER PIPING DETAIL
SCALE: N.T.S




HOT WATER UNIT HEATER DETAIL
SCALE: N.T.S

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ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

MECHANICAL DETAILS &
SCHEMATICS

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| NTS | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M1-6

24"x36" Tabloid
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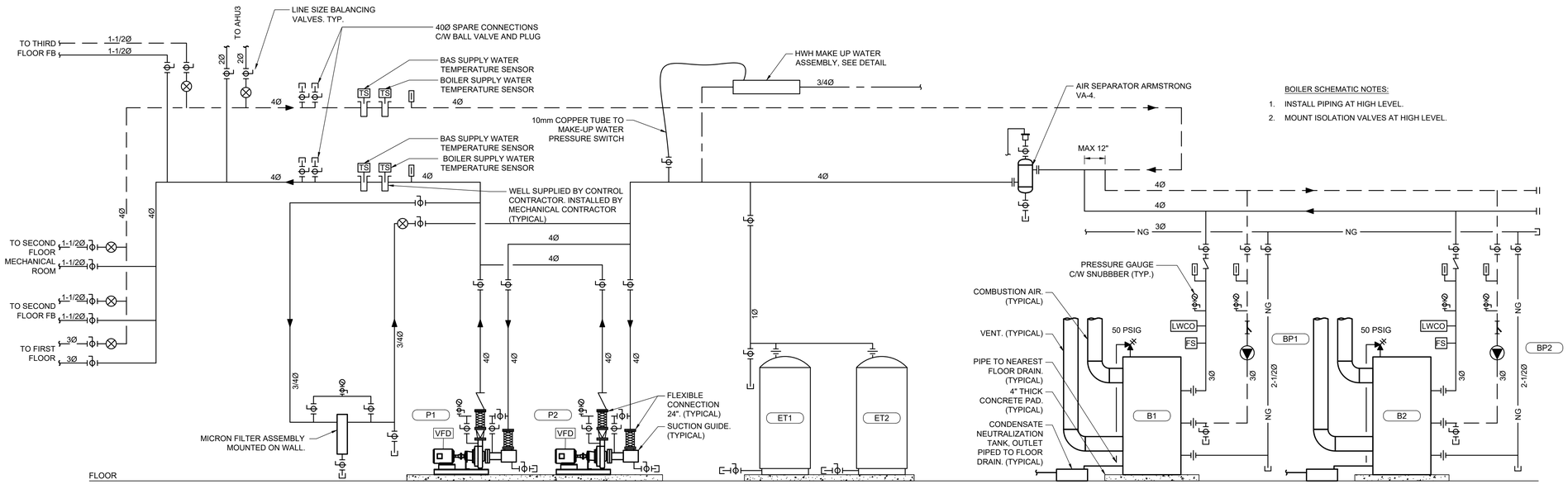
plotted by: mreuter on Feb 20, 2026 - 9:39am

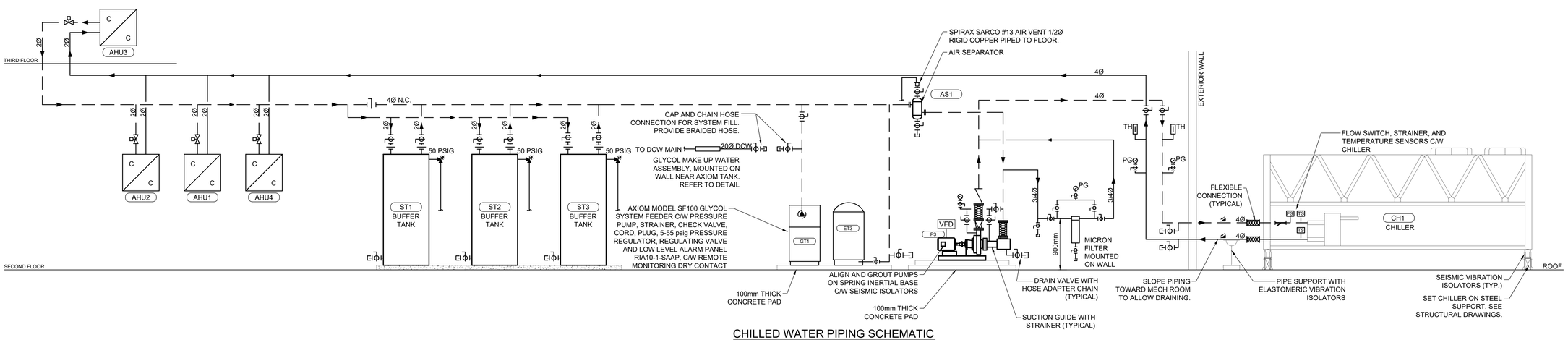



BOILER SCHEMATIC NOTES:

1. INSTALL PIPING AT HIGH LEVEL.
2. MOUNT ISOLATION VALVES AT HIGH LEVEL.

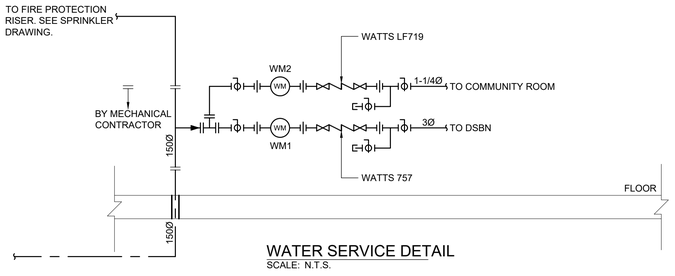
## HOT WATER HEATING PIPING SCHEMATIC

SCALE: N.T.S




## CHILLED WATER PIPING SCHEMATIC

SCALE: N.T.S




## WATER SERVICE DETAIL

SCALE: N.T.S.

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project title

PROPOSED NEW ELEMENTARY SCHOOL

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drawing title

MECHANICAL DETAILS & SCHEMATICS

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| NTS | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M1-7

24"x36" Tabloid
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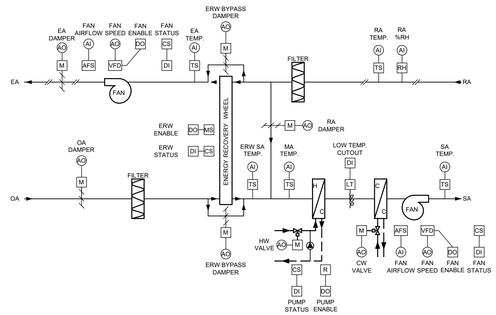
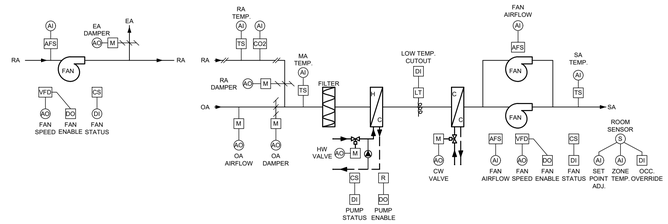
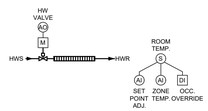
plotted by: mreuter on Feb 20, 2026 - 9:39am



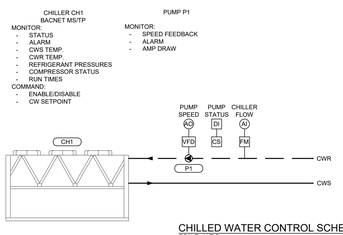

AHU1,2,3 CONTROLS SCHEMATIC
SCALE: N.T.S



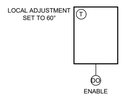

AHU4 GYMNASIUM CONTROLS SCHEMATIC
SCALE: N.T.S




WALL FIN CONTROL SCHEMATIC
SCALE: N.T.S




CHILLED WATER CONTROL SCHEMATIC
SCALE: N.T.S




CABINET HEATER CONTROL SCHEMATIC
SCALE: N.T.S

## CONTROLS LEGEND:

| | |
|---|---|
| SA | SUPPLY AIR |
| RA | RETURN AIR |
| EA | EXHAUST AIR |
| OA | OUTSIDE AIR |
| MA | MIXED AIR |
| DPT | DIFFERENTIAL PRESSURE TRANSDUCER |
| CO2 | CARBON DIOXIDE SENSOR |
| OCC | OCCUPANCY SENSORY |
| M | MODULATING ACTUATOR / VALVE |
| AI | ANALOG INPUT |
| AO | ANALOG OUTPUT |
| DI | DIGITAL INPUT |
| DO | DIGITAL OUTPUT |
| CS | CURRENT SENSOR |
| R | RELAY |
| MS | MOTOR STARTER |
| ECM | ECM MOTOR TERMINAL |
| VFD | VARIABLE FREQUENCY DRIVE |
| AFS | AIRFLOW STATION |
| CO2 | CARBON DIOXIDE SENSOR |
| RH | RELATIVE HUMIDITY SENSOR |

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PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

BAS CONTROL SCHEMATICS

| drawn by | designed by |
|---|---|
| MR | DS |

| scale | date |
|---|---|
| NTS | 20JUNE2025 |

| job number | issue |
|---|---|
| 25021 | 2 |

drawing number

M1-8

24"x36" Imperial
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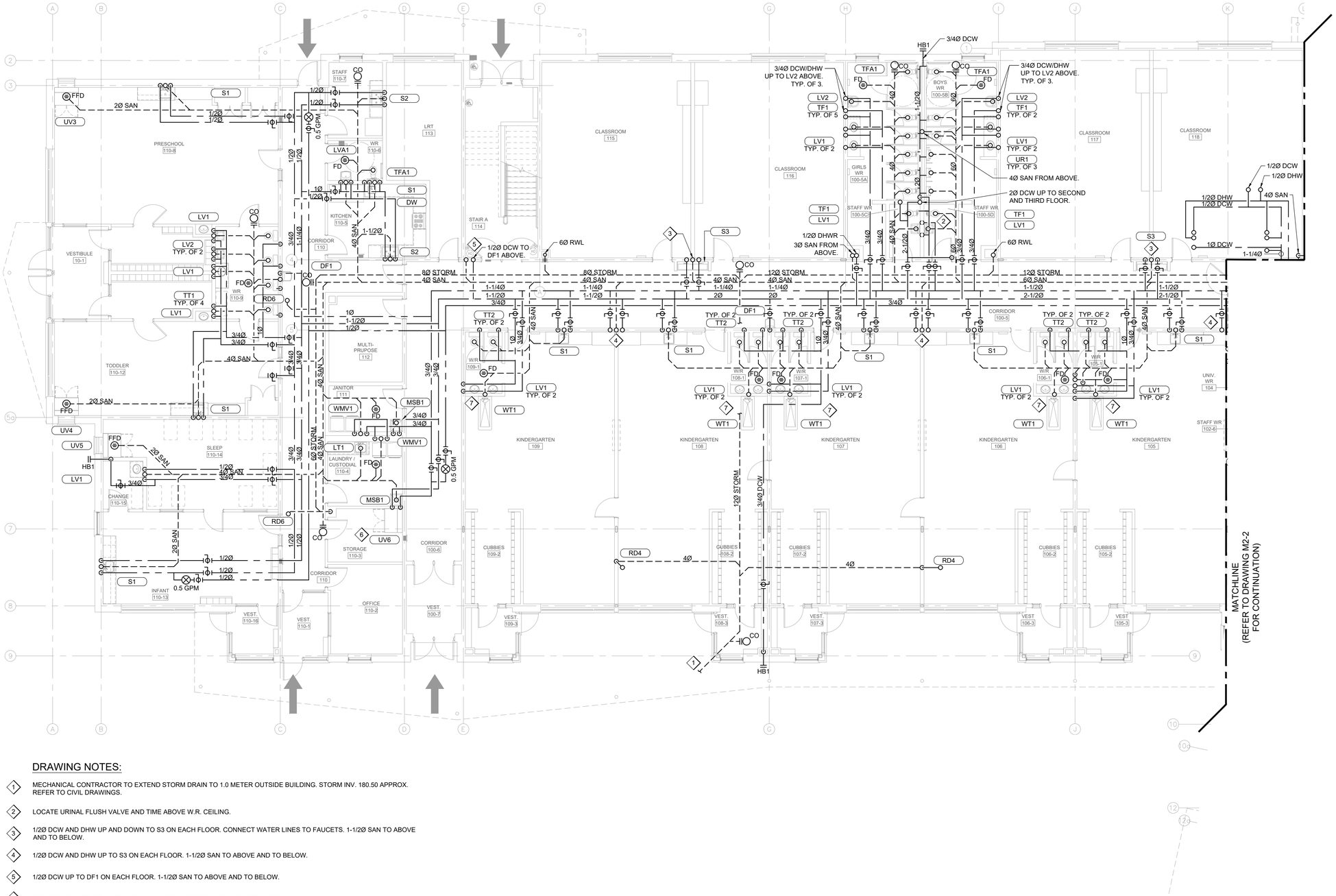
plotted by: mreuter on Feb 20, 2026 - 9:39am




## DRAWING NOTES:

1. MECHANICAL CONTRACTOR TO EXTEND STORM DRAIN TO 1.0 METER OUTSIDE BUILDING. STORM INV. 180.50 APPROX. REFER TO CIVIL DRAWINGS.
2. LOCATE URINAL FLUSH VALVE AND TIME ABOVE W.R. CEILING.
3. 1/2Ø DCW AND DHW UP AND DOWN TO S3 ON EACH FLOOR. CONNECT WATER LINES TO FAUCETS. 1-1/2Ø SAN TO ABOVE AND TO BELOW.
4. 1/2Ø DCW AND DHW UP TO S3 ON EACH FLOOR. 1-1/2Ø SAN TO ABOVE AND TO BELOW.
5. 1/2Ø DCW UP TO DF1 ON EACH FLOOR. 1-1/2Ø SAN TO ABOVE AND TO BELOW.
6. PROVIDE GRAVITY DRAINED 3/4Ø UV CONDENSATE DRAIN TO MOP SERVICE BASIN.
7. DCW/DHW DOWN WALL. ROUTE THROUGH MILLWORK TO PLUMBING FIXTURES.

| issue | issued for | date | init. |
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| 0 | BUILDING PERMIT | 18NOV2025 | DS |

seal

LICENSED PROFESSIONAL ENGINEER
D. P. STACEY
26/02/26
PROVINCE OF ONTARIO


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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

PARTIAL GROUND FLOOR PLAN - WEST PLUMBING LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M2-1


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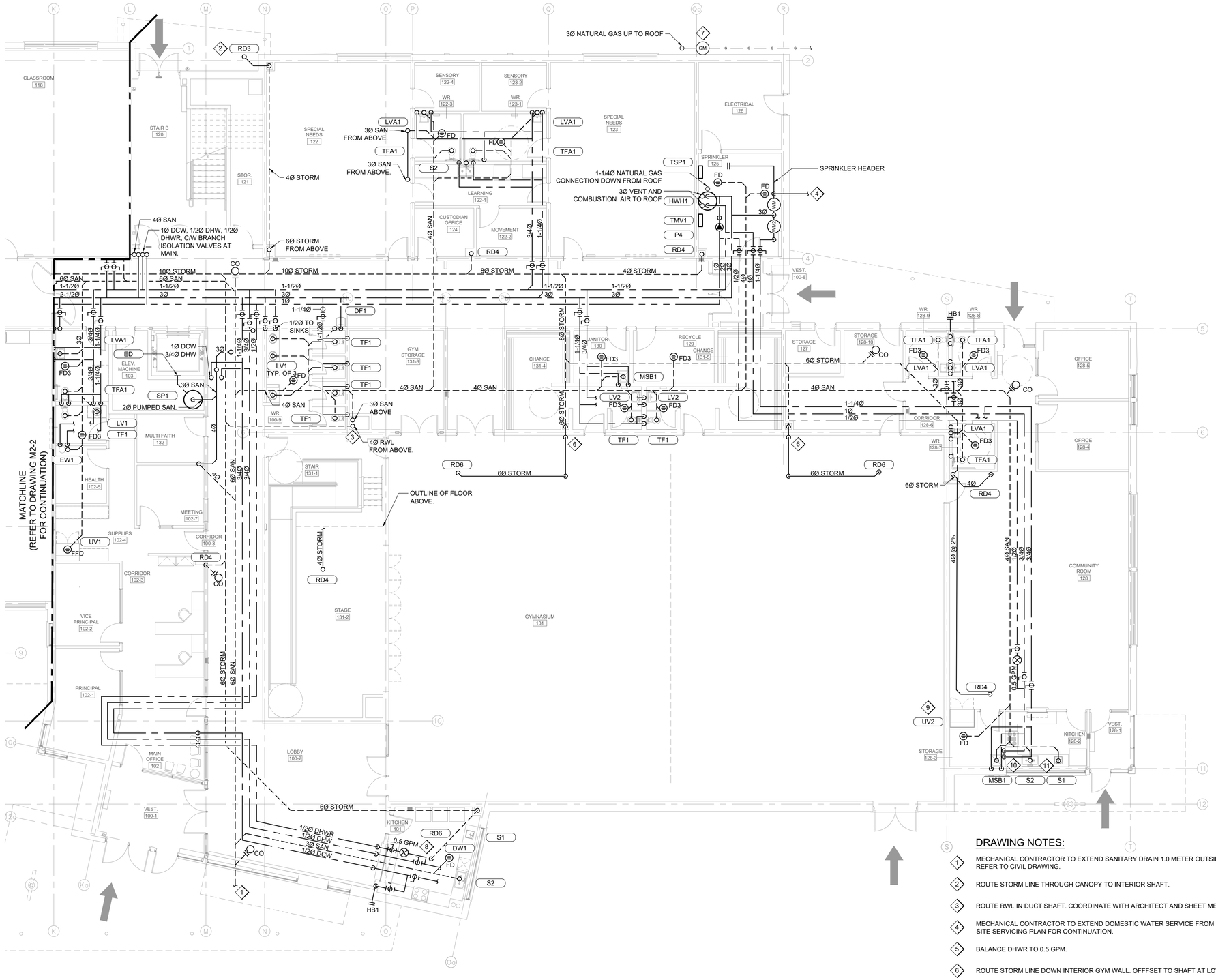
plotted by: mreuter on Feb 20, 2026 - 9:39am




## DRAWING NOTES:

1. MECHANICAL CONTRACTOR TO EXTEND SANITARY DRAIN 1.0 METER OUTSIDE BUILDING. SANITARY INV. 180.40 APPROX. REFER TO CIVIL DRAWING.
2. ROUTE STORM LINE THROUGH CANOPY TO INTERIOR SHAFT.
3. ROUTE RWL IN DUCT SHAFT. COORDINATE WITH ARCHITECT AND SHEET METAL.
4. MECHANICAL CONTRACTOR TO EXTEND DOMESTIC WATER SERVICE FROM 1.0 METER OUTSIDE BUILDING. REFER TO CIVIL SITE SERVICING PLAN FOR CONTINUATION.
5. BALANCE DHWR TO 0.5 GPM.
6. ROUTE STORM LINE DOWN INTERIOR GYM WALL. OFFFSET TO SHAFT AT LOWER ROOF CEILING SPACE.
7. COORDINATE NATURAL GAS SERVICE WITH UTILITY.
8. ROUTE WATER LINES TO PLUMBING FIXTURES . SERVERY/KITCHEN ISOLATION VALVES TO BE INSTALLED AT ACCESSIBLE LOW LEVEL.
9. PROVIDE 3/4Ø CONDENSATE FROM UV TO FLOOR DRAIN IN STORAGE ROOM.
10. DROP DCW AND DHW LINES IN WALL, ROUTE THROUGH MILLWORK TO PLUMBING FIXTURES.
11. ROUTE PLUMBING VENT HORIZONTALLY IN MASONRY WALL BEHIND SINKS AND OFFSET AROUND HIGH LEVEL WINDOW. COORDINATE VENT HEIGHT WITH MASON.

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| 0 | BUILDING PERMIT | 18NOV2025 | DS |

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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

# PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

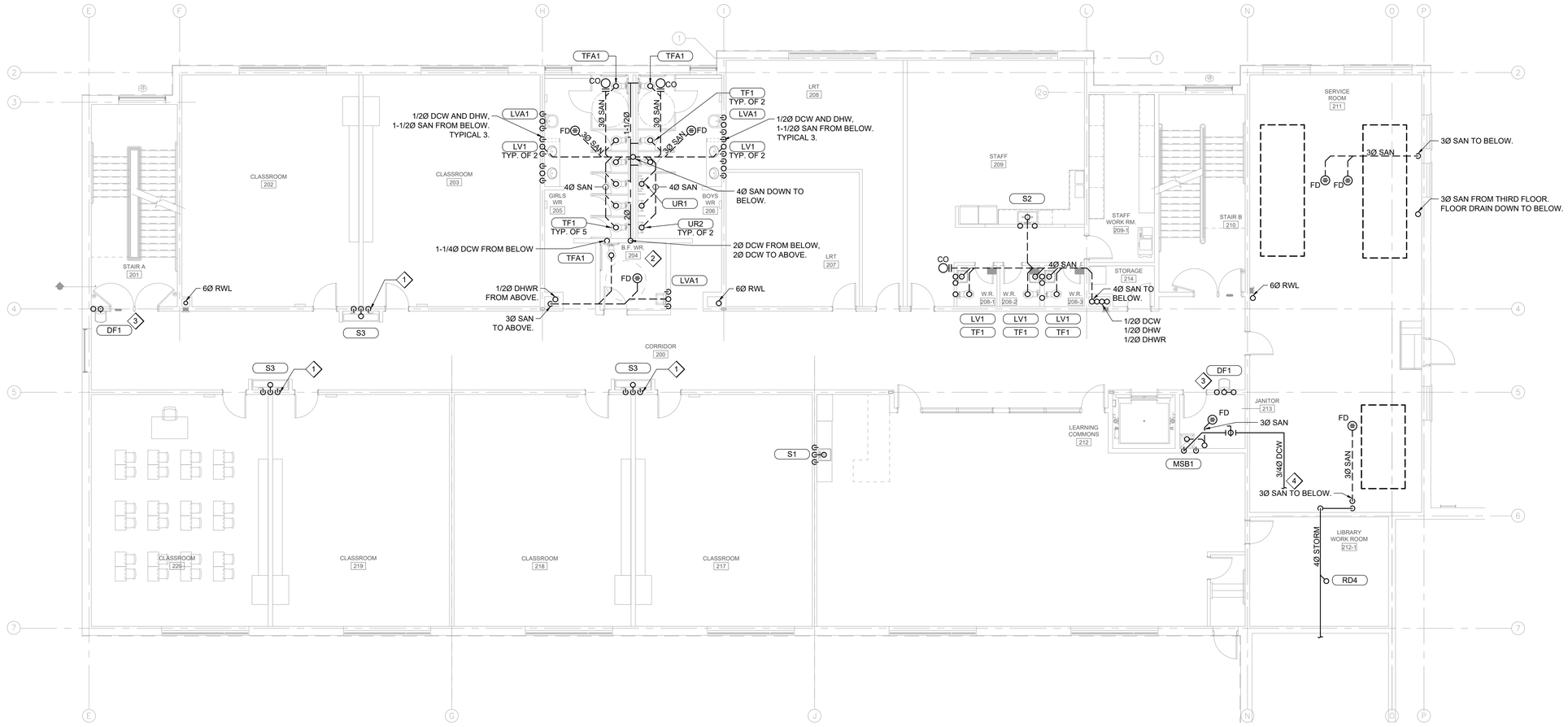
# PARTIAL GROUND FLOOR PLAN - EAST PLUMBING LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M2-2

24"x36" Tesseract
C:\Users\mreuter\AppData\Local\Temp\AcPublish_30172\2021 - Mech.dwg - drawing tab: M2-2
plotted by: mreuter on Feb 20, 2026 - 9:39am




## DRAWING NOTES:

1. 1/2Ø DHW AND DCW FROM BELOW AND TO ABOVE. CONNECT WATER LINES TO FAUCETS. 1-1/2Ø SAN FROM BELOW AND TO ABOVE. CONNECT SINK DRAINS.
2. LOCATE URINAL FLUSH VALVE AND TIME ABOVE B.F. W.R CEILING.
3. 1/2Ø DCW UP TO DF1 ON EACH FLOOR. 1-1/2Ø SAN TO ABOVE AND TO BELOW.
4. TO CHILLER MAKE-UP WATER.

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
| 0 | BUILDING PERMIT | 18NOV2025 | DS |

seal

LICENSED PROFESSIONAL ENGINEER
D. P. STACEY
26/02/26
PROVINCE OF ONTARIO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DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

SECOND FLOOR PLAN - PLUMBING LAYOUT

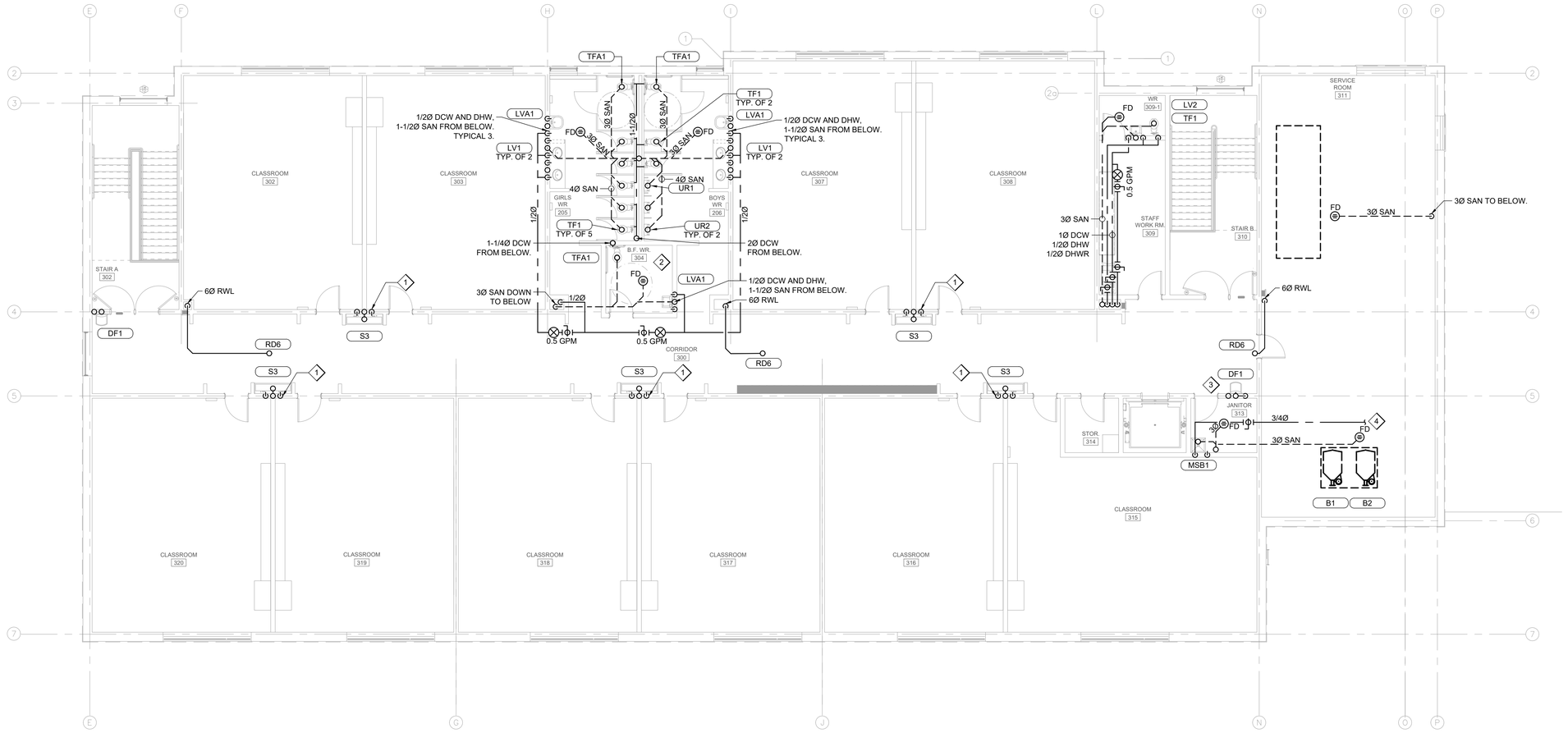
| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M2-3


C:\Users\mreuter\AppData\Local\Temp\AcPublish_30172\25021 - Mech.dwg drawing tab: M2-3

plotted by: mreuter on Feb 20, 2026 - 9:39am




## DRAWING NOTES:

1. 1/2Ø DHW AND DCW FROM BELOW. CONNECT WATER LINES TO FAUCETS. 1-1/2Ø SAN FROM BELOW. CONNECT SINK DRAINS.
2. LOCATE URINAL FLUSH VALVE AND TIME ABOVE B.F. W.R CEILING.
3. 1/2Ø DCW UP TO DF1 ON EACH FLOOR. 1-1/2Ø SAN TO BELOW.
4. CONNECT TO BOILER MAKE-UP WATER.

| issue | issued for | date | int. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
| 0 | BUILDING PERMIT | 18NOV2025 | DS |

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# PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

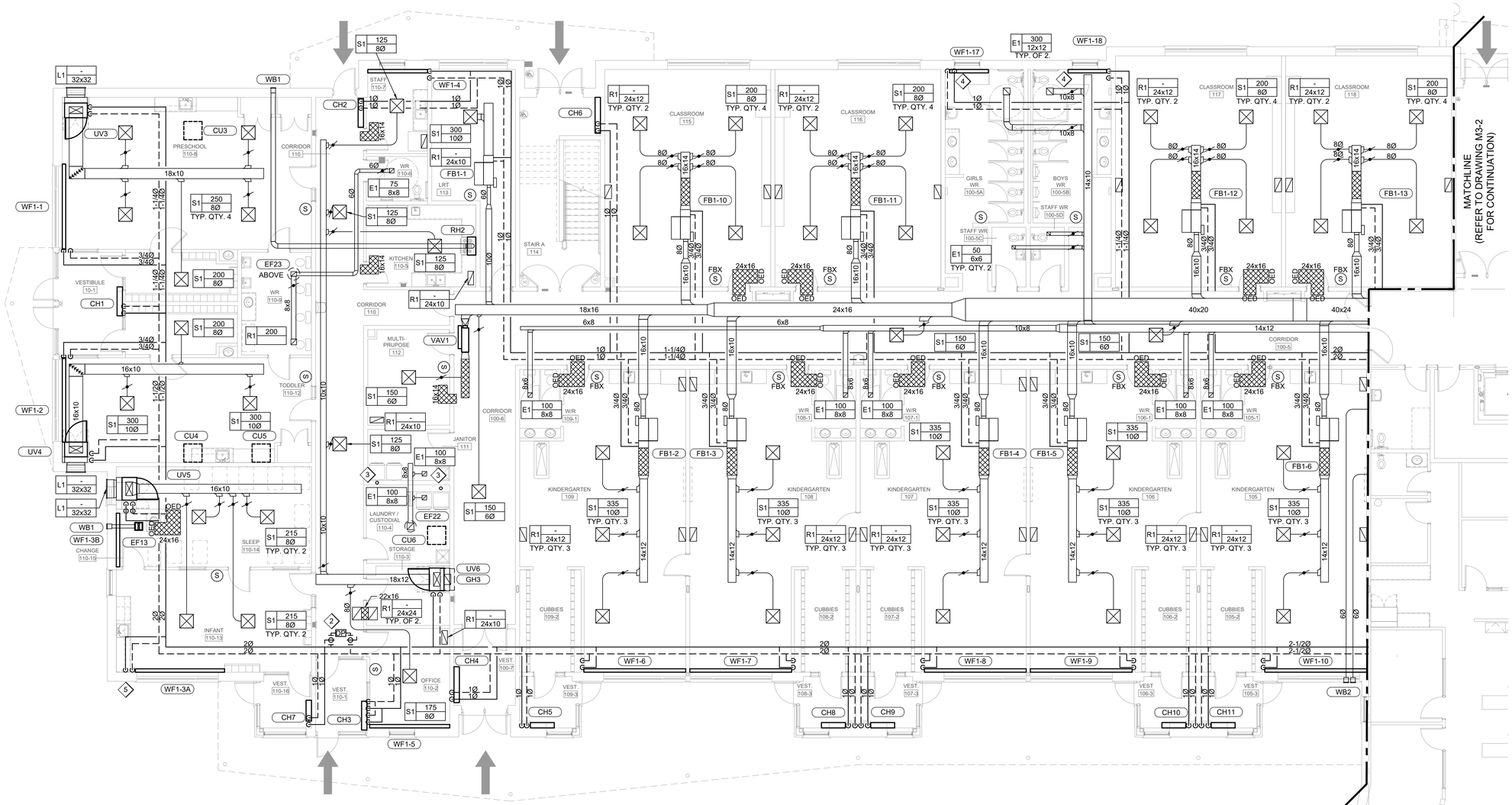
# THIRD FLOOR PLAN - PLUMBING LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M2-4

24"x36" Imperial
C:\Users\mreuter\AppData\Local\Temp\AcPublish_30172\2501 - Mech.dwg drawing tab: M2-4
plotted by: mreuter on Feb 20, 2026 - 9:39am




## DRAWING NOTES:

1. 16x14 DOWN TO 16" ABOVE FINISHED FLOOR.
2. BAS DIFFERENTIAL PRESSURE SENSOR.
3. PROVIDE LINT TRAP DRYER EXHAUST MOUNTED AT SERVICEABLE HEIGHT, REVERSOMATIC MODEL LT250-45. 5Ø DRYER EXHAUST UP TO ROOF CAP.
4. 3/4Ø HWS/HWR DOWN TO WF1-17 AND WF1-18. 1Ø HWS/HWR UP TO SECOND AND THIRD FLOOR WALL FINS.
5. DROP HWS/HWR IN CORNER C/W PIPE ENCLOSURE. ROUTE PIPES THROUGH MILLWORK TO WALLFIN.

## GENERAL NOTES:

1. 3/4Ø HWS/HWR TO WALL FIN (WF) UNLESS NOTED OTHERWISE.
2. 3/4Ø HWS/HWR TO FBX-X BOX HEATING COIL UNLESS OTHERWISE NOTED.
3. LOCATE FAN POWERED VAV BOXES (FBX-X) ABOVE CLEAR FLOOR AREA TO ALLOW EASY ACCESS FOR SERVICE. DO NOT INSTALL ABOVE MILLWORK OR FURNITURE. COORDINATE WITH FURNITURE LAYOUT.
4. LEADING EDGE OF INTERNAL DUCT INSULATION TO BE CAPPED TO PREVENT EROSION.

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
| 0 | BUILDING PERMIT | 18NOV2025 | DS |

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project title

# PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

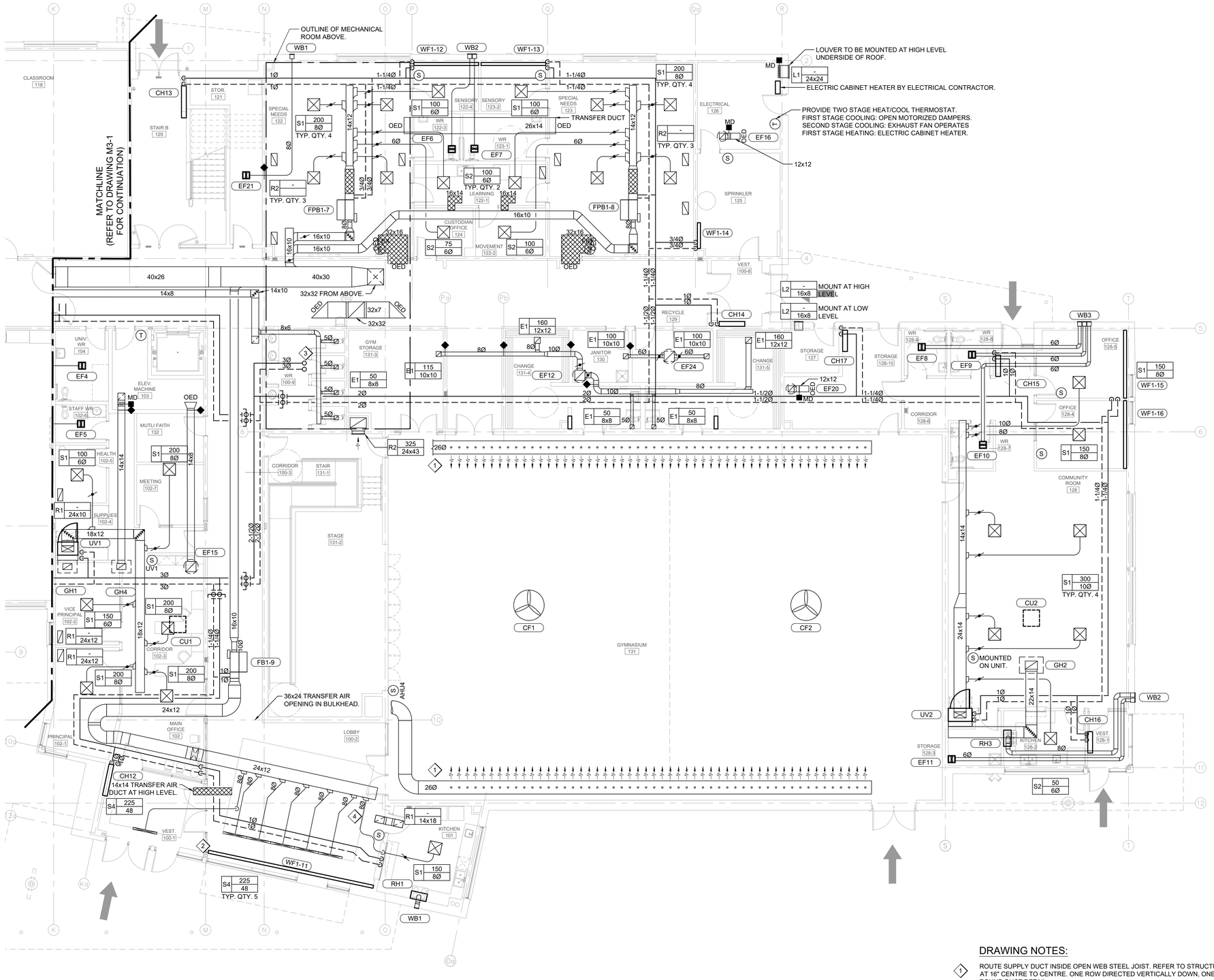
# PARTIAL GROUND FLOOR PLAN - WEST HVAC LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M3-1

24"x36" Tabloid
C:\Users\mreuter\AppData\Local\Temp\AcPublish_30172\2021 - Mech.dwg, drawing tab: M3-1
plotted by: mreuter on Feb 20, 2026 - 9:39am




## DRAWING NOTES:

1. ROUTE SUPPLY DUCT INSIDE OPEN WEB STEEL JOIST. REFER TO STRUCTURAL. PROVIDE TWO ROWS OF 54 - 3"Ø HOLES AT 16" CENTRE TO CENTRE. ONE ROW DIRECTED VERTICALLY DOWN, ONE ROW AT 45 DEGREES DOWN. REFER TO GYM ROUND DUCT DETAIL.
2. PROVIDE CUSTOM 16 GA WALLFIN ACCESS PANEL. CUT TO MATCH WALL ANGLE.
3. 3Ø HWS/HWR FROM MECHANICAL ROOM ABOVE.
4. HVAC DUCTS AND PIPES TO ROUTE UP TO UNDERSIDE OF HIGH ROOF WITHIN BULKHEAD.

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
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LICENSED PROFESSIONAL ENGINEER D. P. STACEY 26/02/26 PROVINCE OF ONTARIO

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# PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

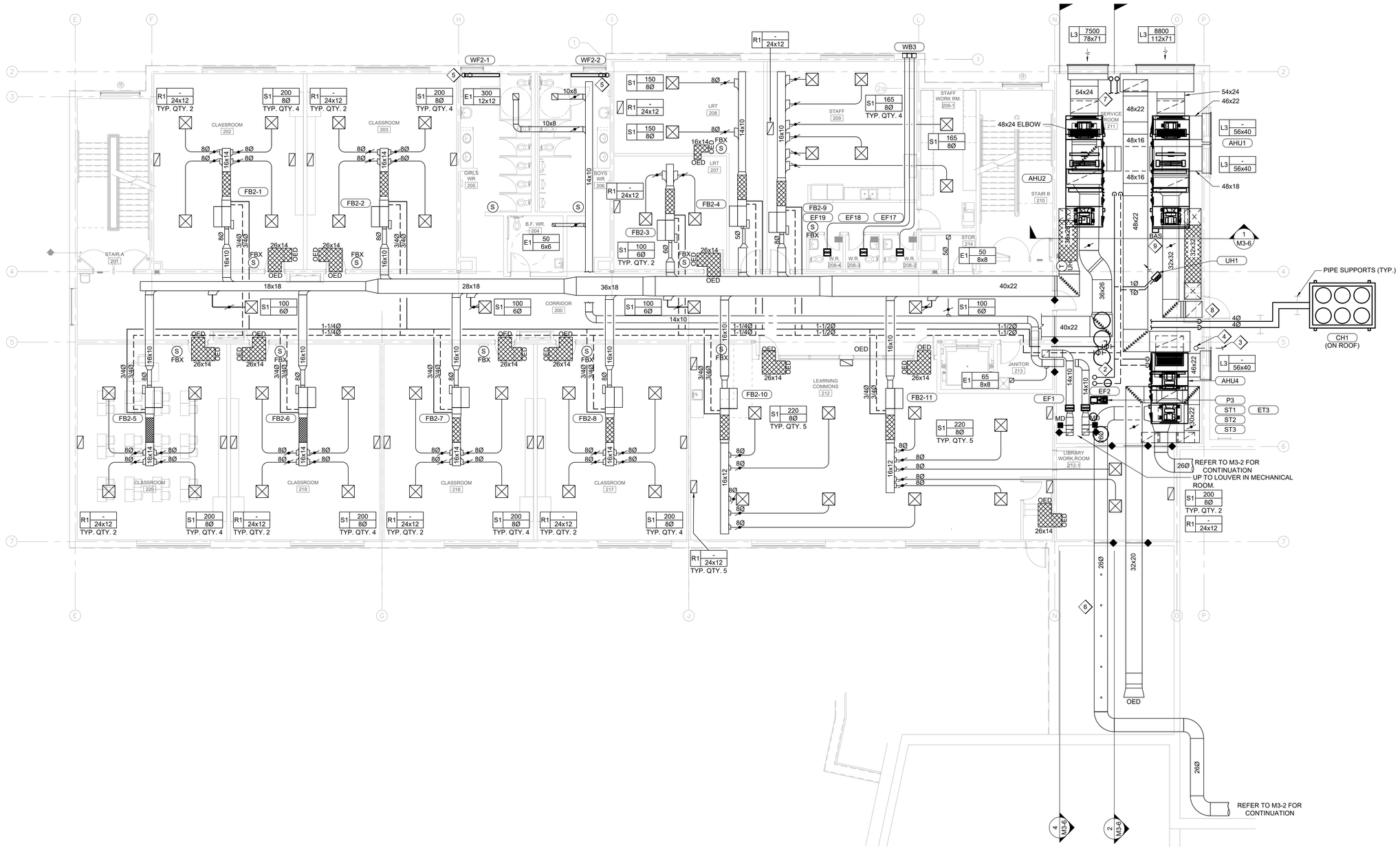
# PARTIAL GROUND FLOOR PLAN - EAST HVAC LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M3-2

C:\Users\mreuter\AppData\Local\Temp\AcPublish_30172\2021 - Mech.dwg, drawing tab: M3-2
plotted by: mreuter on Feb 20, 2026 - 9:39am
24"x36" Isopanel




## DRAWING NOTES:

1. 1-1/2Ø HWS/HWR TO AHU2 AND 1-1/2Ø HWS/HWR TO AHU1.
2. 4Ø HWS/HWR FROM ABOVE. 3Ø HWS/HWR TO GROUND FLOOR.
3. REFER TO ROOF PLAN FOR NATURAL GAS PIPE CONTINUATION.
4. 3Ø NATURAL GAS ENTER SECOND FLOOR AT LOW LEVEL AND UP TO THIRD FLOOR.
5. 1Ø HWS/HWR FROM BELOW. 3/4Ø HWS/HWR TO ABOVE.
6. PROVIDE ONE ROW OF 5-3Ø HOLES AT 60" CENTRE TO CENTRE DIRECTED VERTICALLY DOWN.
7. 2Ø CWS/CWR UP TO AHU3 IN THIRD FLOOR SERVICE ROOM.
8. CHILLED WATER PIPING TO BUFFER TANKS, PUMP AND AIR HANDLES. REFER TO CHILLED WATER PIPING SCHEMATIC ON DRAWING M1-7.
9. PROVIDE UNISTRUT SUPPORT FOR BAS PANEL MOUNTING.

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
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PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

SECOND FLOOR PLAN - HVAC LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M3-3

24"x36" Tabloid
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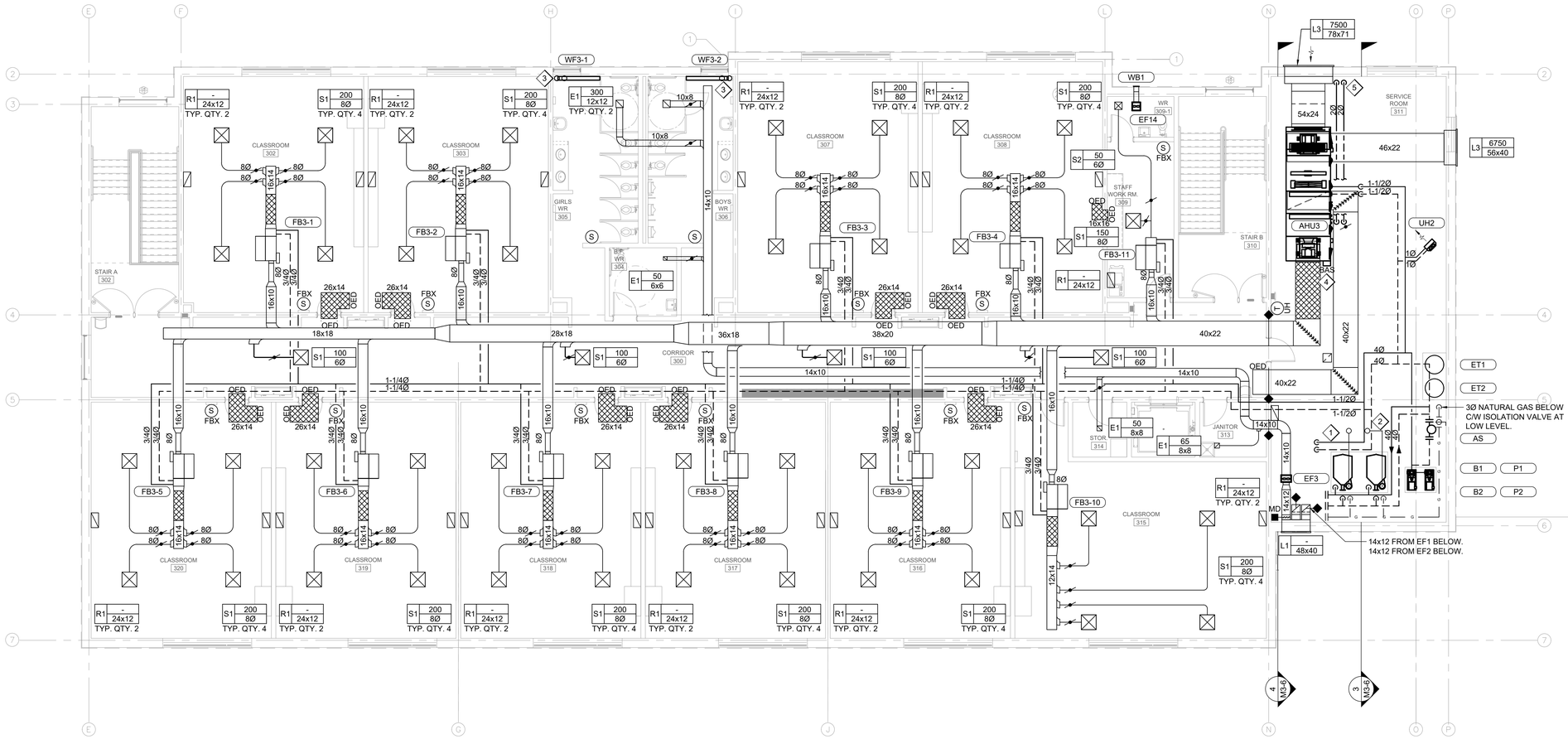
plotted by: mreuter on Feb 20, 2026 - 9:39am




## DRAWING NOTES:

1. 4Ø HWS/HWR TO BELOW.
2. 8Ø BOILER VENTS UP THROUGH ROOFS.
3. 3/4Ø HWS/HWR FROM BELOW.
4. PROVIDE UNISTRUT SUPPORT FOR BAS PANEL MOUNTING.
5. 2Ø CWS/CWR FROM BELOW TO AHU3.

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
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| 0 | BUILDING PERMIT | 18NOV2025 | DS |

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LICENSED PROFESSIONAL ENGINEER
D. P. STACEY
26/02/20
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project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

THIRD FLOOR PLAN - HVAC LAYOUT

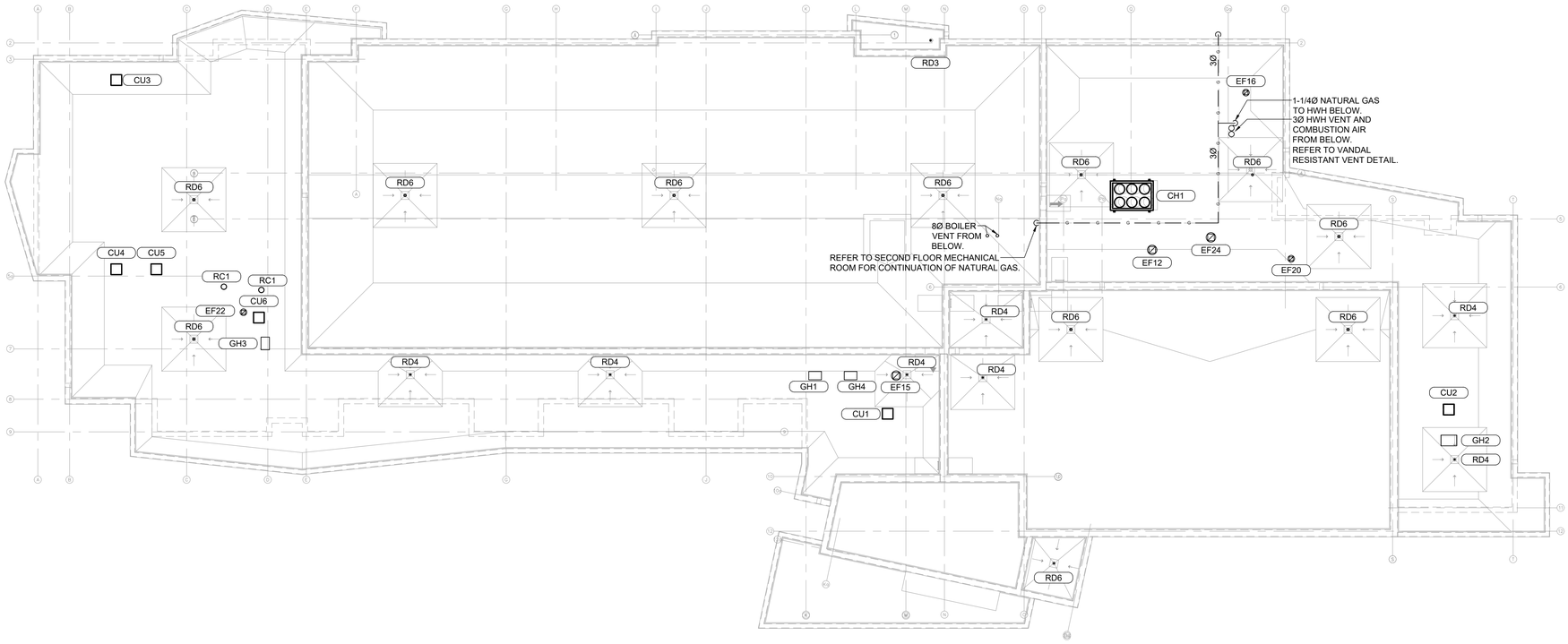
| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

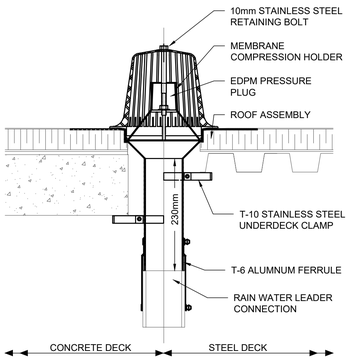
drawing number

M3-4

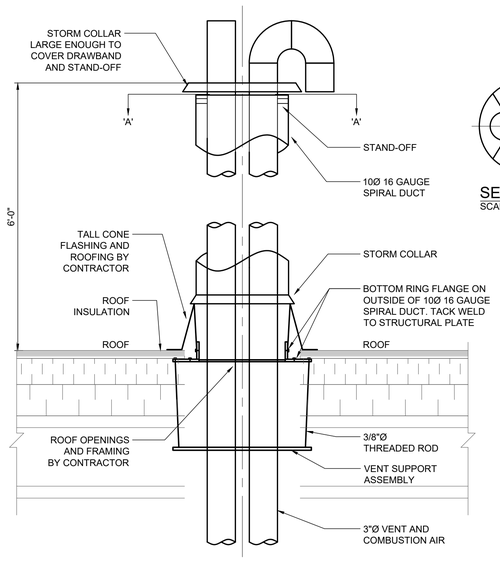
C:\Users\mreuter\AppData\Local\Temp\AcPublish_30172\25021 - Mech.dwg drawing tab: M3-4

plotted by: mreuter on Feb 20, 2026 - 9:40am

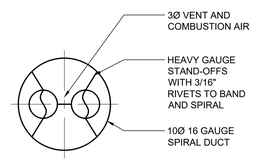


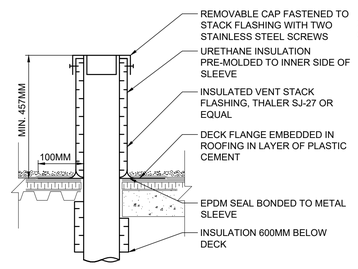

ROOF DRAIN DETAIL
SCALE: N.T.S.



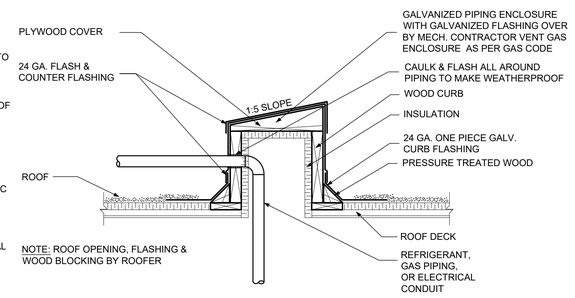

DOMESTIC HOT WATER HEATER VANDAL RESISTANT VENT DETAIL
SCALE: N.T.S



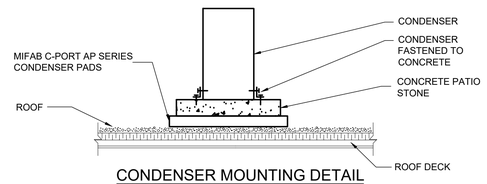

SECTION 'A'
SCALE: N.T.S




PLUMBING VENT STACK FLASHING DETAIL
SCALE: N.T.S




DUCT/REFRIGERANT/GAS PIPING ROOF PENETRATION DETAIL
SCALE: N.T.S




CONDENSER MOUNTING DETAIL
SCALE: NTS

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

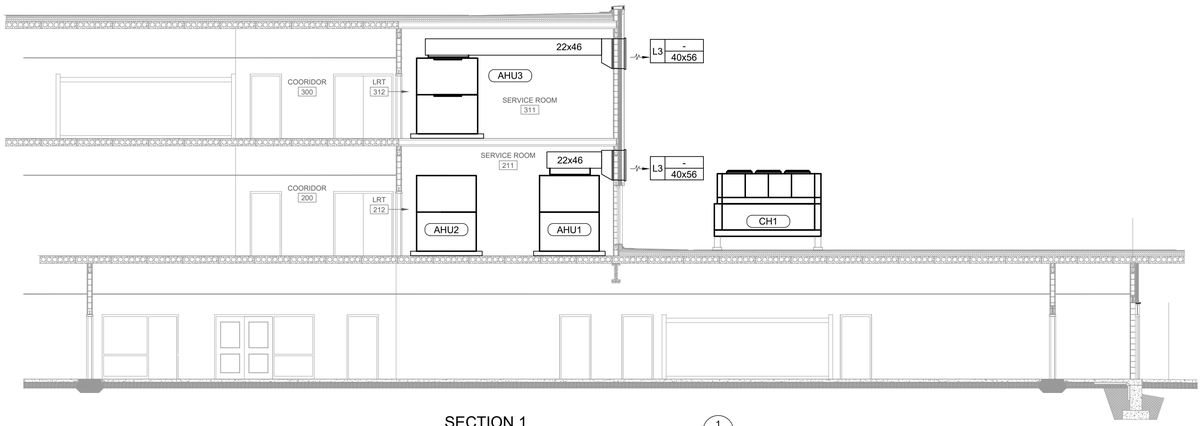
MECHANICAL ROOF PLAN & DETAILS

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/16" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

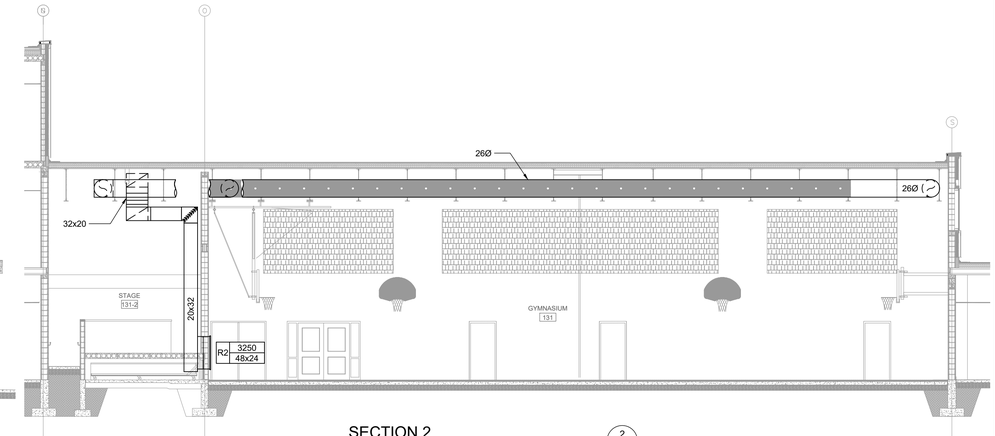
drawing number

M3-5

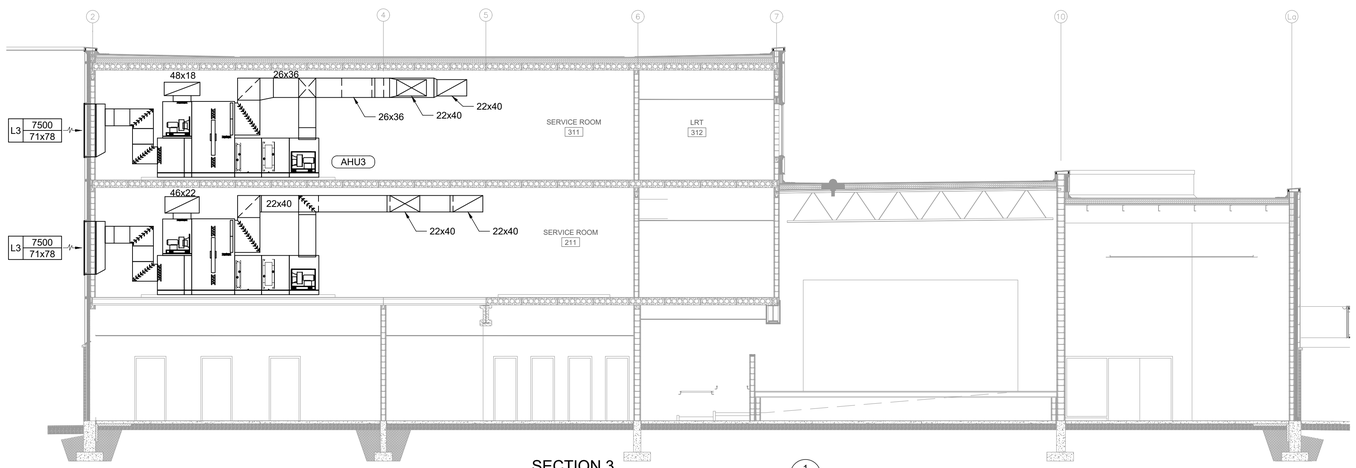
24"x36" Isopro®
C:\Users\mreuter\AppData\Local\Temp\AcPublish_30172\2501 - Mech.dwg drawing tab: M3-5
plotted by: mreuter on Feb 20, 2026 - 9:40am



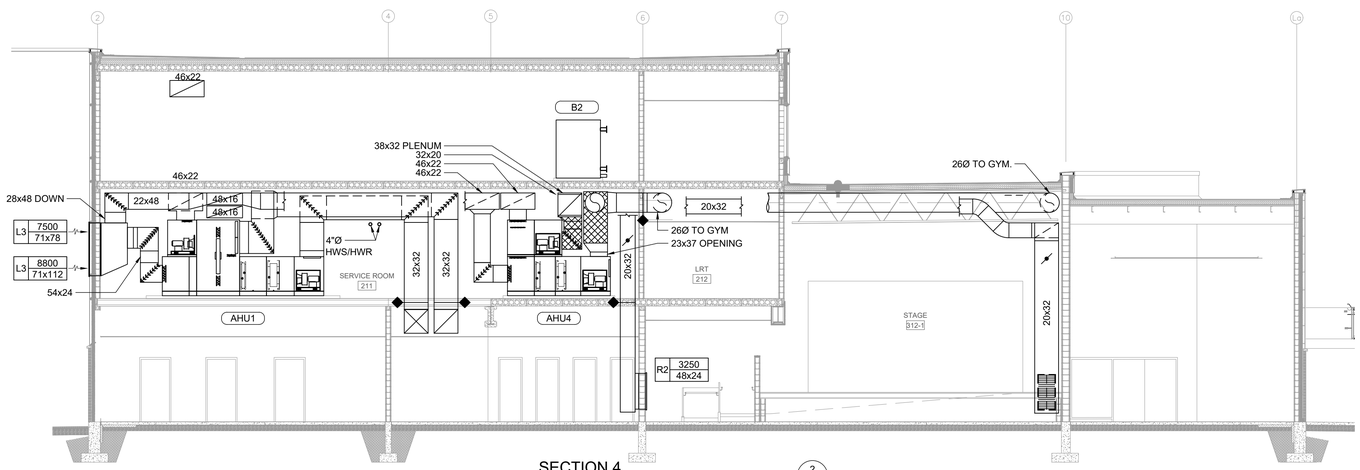

SECTION 1
SCALE: 1/8" = 1'-0"
1
M3-3




SECTION 2
SCALE: 1/8" = 1'-0"
2
M3-3




SECTION 3
SCALE: 1/8" = 1'-0"
1
M3-4




SECTION 4
SCALE: 1/8" = 1'-0"
2
M3-4

| issue | issued for | date | int. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

MECHANICAL SECTIONS

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M3-6

24"x36" Tabloid
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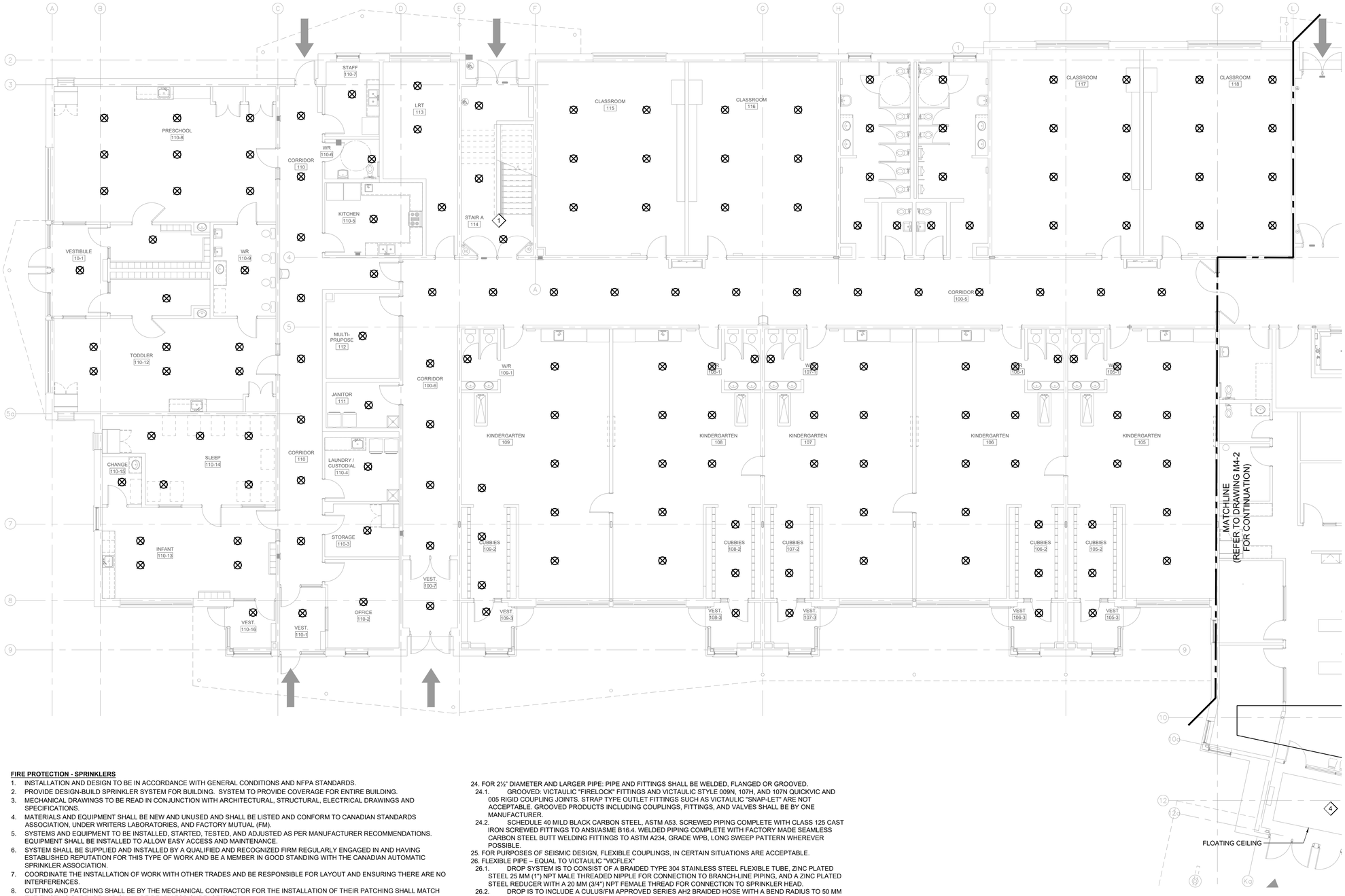
plotted by: mreuter on Feb 20, 2026 - 9:40am




**FIRE PROTECTION - SPRINKLERS**

1. INSTALLATION AND DESIGN TO BE IN ACCORDANCE WITH GENERAL CONDITIONS AND NFPA STANDARDS.
2. PROVIDE DESIGN-BUILD SPRINKLER SYSTEM FOR BUILDING. SYSTEM TO PROVIDE COVERAGE FOR ENTIRE BUILDING.
3. MECHANICAL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL DRAWINGS AND SPECIFICATIONS.
4. MATERIALS AND EQUIPMENT SHALL BE NEW AND UNUSED AND SHALL BE LISTED AND CONFORM TO CANADIAN STANDARDS ASSOCIATION, UNDER WRITERS LABORATORIES, AND FACTORY MUTUAL (FM).
5. SYSTEMS AND EQUIPMENT TO BE INSTALLED, STARTED, TESTED, AND ADJUSTED AS PER MANUFACTURER RECOMMENDATIONS. EQUIPMENT SHALL BE INSTALLED TO ALLOW EASY ACCESS AND MAINTENANCE.
6. SYSTEM SHALL BE SUPPLIED AND INSTALLED BY A QUALIFIED AND RECOGNIZED FIRM REGULARLY ENGAGED IN AND HAVING ESTABLISHED REPUTATION FOR THIS TYPE OF WORK AND BE A MEMBER IN GOOD STANDING WITH THE CANADIAN AUTOMATIC SPRINKLER ASSOCIATION.
7. COORDINATE THE INSTALLATION OF WORK WITH OTHER TRADES AND BE RESPONSIBLE FOR LAYOUT AND ENSURING THERE ARE NO INTERFERENCES.
8. CUTTING AND PATCHING SHALL BE BY THE MECHANICAL CONTRACTOR FOR THE INSTALLATION OF THEIR PATCHING SHALL MATCH THE EXISTING SURFACE AND SHALL BE READY FOR SURFACE FINISH.
9. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES MUST BE SEALED WITH AN APPROVED FIRE RATING SYSTEM.
10. PROVIDE SLEEVES THROUGH FIRE RATED ASSEMBLIES, MASONRY , CONCRETE OR SIMILAR MATERIALS,TO PREVENT CONTACT.
11. CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR FOR THE INSTALLATION OF THEIR WORK. PATCHING SHALL MATCH THE EXISTING SURFACE AND SHALL BE READY FOR SURFACE FINISH.
12. MAIN EQUIPMENT AND PIPE SIZES SHOWN ON DRAWINGS ARE FOR GENERAL ROUTING, LOCATION AND BIDDING PURPOSES.
13. PROVIDE SYSTEM DESIGN, HYDRAULIC CALCULATIONS AND SHOP DRAWINGS PREPARED BY AN ENGINEER EXPERIENCED IN THE DESIGN OF THIS WORK AND LICENSED IN THE PROVINCE OF ONTARIO.
14. ENGINEER TO APPLY FOR SPRINKLER BUILDING PERMIT.
15. PROVIDE NECESSARY WATER FLOW TESTS AT STREET TO PERFORM HYDRAULIC CALCULATIONS.
16. OBTAIN APPROVALS FROM CITY/FIRE DEPARTMENT AND FROM AUTHORITIES HAVING JURISDICTION.
17. SPRINKLER HEAD LOCATIONS TO BE COORDINATED WITH CEILINGS, LIGHTING AND HVAC PLANS IN ORDER TO AVOID INTERFERENCES.
18. WHERE HIGHER TEMPERATURE SOURCES EXIST, CONTHRACTOR SHALL ADJUST SPRINKLER TEMPERATURES RATINGS PER NFPA.
19. ELECTRICAL AND FIRE ALARM WIRING BY GENERAL CONTRACTOR.
20. WET SYSTEMS ARE TO BE MAINTAINED ABOVE 4 DEGREES C..
21. EQUIPMENT, MATERIALS AND ACCESSORIES SHALL BE ULC AND FM LISTED.
22. STEEL PIPE 1" TO 1 ¼": ASTM A135/A135M, ASTM A53/A53M, ASTM A795, UL LISTED, THREADABLE; SCHEDULE 40.
23. STEEL PIPE 1 ½" AND LARGER: ASTM A135/A135M, ASTM A53/A53M, ASTM A795, UL LISTED, GROOVABLE WALL; SCHEDULE 40 OR SCHEDULE 10.
24. FOR 2½" DIAMETER AND LARGER PIPE: PIPE AND FITTINGS SHALL BE WELDED, FLANGED OR GROOVED.
    - 24.1. GROOVED: VICTAULIC "FIRELOCK" FITTINGS AND VICTAULIC STYLE 009N, 107H, AND 107N QUICKVIC AND 005 RIGID COUPLING JOINTS. STRAP TYPE OUTLET FITTINGS SUCH AS VICTAULIC "SNAP-LET" ARE NOT ACCEPTABLE. GROOVED PRODUCTS INCLUDING COUPLINGS, FITTINGS, AND VALVES SHALL BE BY ONE MANUFACTURER.
    - 24.2. SCHEDULE 40 MILD BLACK CARBON STEEL, ASTM A53. SCREWED PIPING COMPLETE WITH CLASS 125 CAST IRON SCREWED FITTINGS TO ANSI/ASME B16.4. WELDED PIPING COMPLETE WITH FACTORY MADE SEAMLESS CARBON STEEL BUTT WELDING FITTINGS TO ASTM A234, GRADE WPB, LONG SWEEP PATTERN WHEREVER POSSIBLE.
25. FOR PURPOSES OF SEISMIC DESIGN, FLEXIBLE COUPLINGS, IN CERTAIN SITUATIONS ARE ACCEPTABLE.
26. FLEXIBLE PIPE – EQUAL TO VICTAULIC "VICFLEX"
    - 26.1. DROP SYSTEM IS TO CONSIST OF A BRAIDED TYPE 304 STAINLESS STEEL FLEXIBLE TUBE, ZINC PLATED STEEL 25 MM (1") NPT MALE THREADED NIPPLE FOR CONNECTION TO BRANCH-LINE PIPING, AND A ZINC PLATED STEEL REDUCER WITH A 20 MM (3/4") NPT FEMALE THREAD FOR CONNECTION TO SPRINKLER HEAD.
    - 26.2. DROP IS TO INCLUDE A CULUS/FM APPROVED SERIES AH2 BRAIDED HOSE WITH A BEND RADIUS TO 50 MM (2") TO ALLOW FOR PROPER INSTALLATION IN CONFINED SPACES.
    - 26.3. UNION JOINTS ARE TO BE PROVIDED FOR EASE OF INSTALLATION, PREVENTION OF HOSE TORQUE STRESSES AND ON SITE CHANGING OF FACTORY 146 MM (5.75") STRAIGHT REDUCING NIPPLE IN REDUCED SPACES UNDER OBSTRUCTIONS.
    - 26.4. ON T-BAR CEILING GRID WITH DROP IN TILE APPLICATION, FLEXIBLE DROP IS TO ATTACH TO CEILING GRID USING A ONE-PIECE OPEN GATE SERIES AB1 BRACKET. BRACKET IS TO ALLOW INSTALLATION BEFORE CEILING TILE IS IN PLACE.
    - 26.5. ON T-BAR CEILING GRID DESIGNED FOR HARD LID DRYWALL APPLICATION, FLEXIBLE DROP IS TO ATTACH TO CEILING GRID USING A ONE-PIECE OPEN GATE SERIES AB2 BRACKET. BRACKET IS TO ALLOW FOR VERTICAL ADJUSTMENT OF REDUCER/HEAD FROM BELOW DRYWALL, POST-DRYWALL INSTALLATION.
    - 26.6. ON HAT FURRING CHANNEL GRID WITH HARD LID DRYWALL APPLICATION, FLEXIBLE DROP IS TO ATTACH TO CEILING GRID USING A ONE-PIECE OPEN GATE SERIES AB4 BRACKET. BRACKET IS TO ALLOW FOR VERTICAL ADJUSTMENT OF REDUCER/HEAD FROM BELOW DRYWALL, POST-DRYWALL INSTALLATION.
    - 26.7. BRAIDED DROP SYSTEM IS TO BE CULUS LISTED FOR SPRINKLER SERVICES TO 1206 KPA (175 PSI).
    - 26.8. MAXIMUM FLEXIBLE PIPE LENGTH TO BE 1200 MM (48") IF REQUIRED.

## DRAWING NOTES:

1. PROVIDE SPRINKLER COVERAGE FOR STAIRWELL AND UNDER STAIRS.

## SPRINKLER HEAD LEGEND

| SYMBOL | ORIENTATION | FINISH |
|---|---|---|
| ○ | UPRIGHT | BRASS |
| ● | UPRIGHT - DRY | BRASS |
| ⊗ | PENDANT | CHROME |
| ⊗ | PENDANT - DRY | CHROME |
| ◉ | PENDANT CONCEALED | WHITE |
| ⊗ | PENDANT SEMI RECESSED | WHITE |
| ◁ | SIDEWALL | WHITE |
| ◀ | SIDEWALL - DRY | CHROME |

THE ABOVE SYMBOLS ARE STANDARDS AND MAY APPLY TO THIS PROJECT. REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER DETAILS ON USE AND APPLICATIONS.

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | DS |
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seal

LICENSED PROFESSIONAL ENGINEER D. P. STACEY 20/02/26 PROVINCE OF ONTARIO

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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

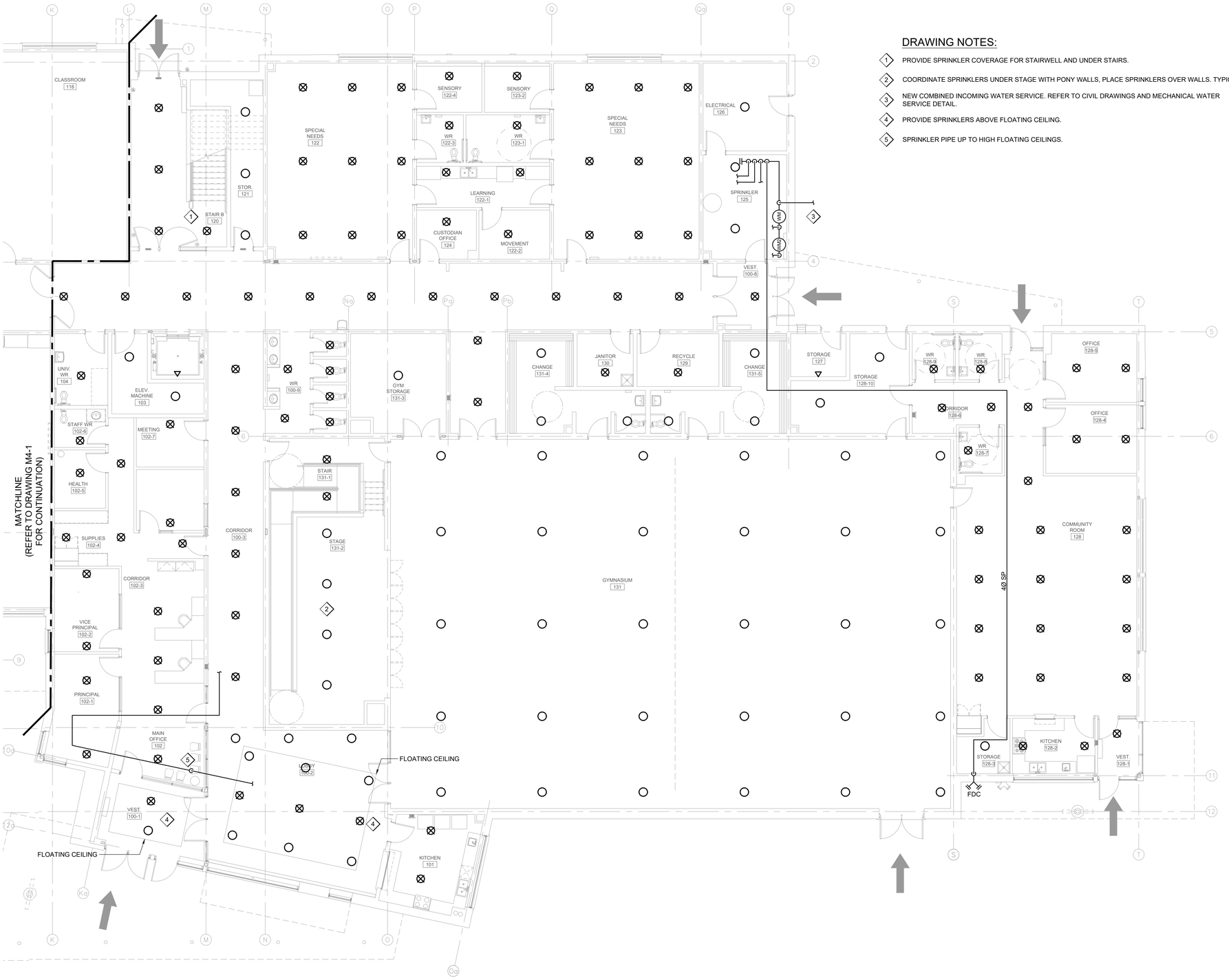
PARTIAL GROUND FLOOR PLAN - WEST FIRE PROTECTION LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M4-1

24"x36" Tabloid
C:\Users\mreuter\AppData\Local\Temp\AcPublish_30172\2021 - Mech.dwg, drawing tab: M4-1
plotted by: mreuter on Feb 20, 2026 - 9:40am




## DRAWING NOTES:

1. PROVIDE SPRINKLER COVERAGE FOR STAIRWELL AND UNDER STAIRS.
2. COORDINATE SPRINKLERS UNDER STAGE WITH PONY WALLS, PLACE SPRINKLERS OVER WALLS. TYPICAL.
3. NEW COMBINED INCOMING WATER SERVICE. REFER TO CIVIL DRAWINGS AND MECHANICAL WATER SERVICE DETAIL.
4. PROVIDE SPRINKLERS ABOVE FLOATING CEILING.
5. SPRINKLER PIPE UP TO HIGH FLOATING CEILINGS.

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
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drawing title

# PARTIAL GROUND FLOOR PLAN - EAST FIRE PROTECTION LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |
| scale | date |
| 1/8" = 1'-0" | 20JUNE2025 |
| job number | issue |
| 25021 | 2 |

drawing number

M4-2

24"x36" Tabloid
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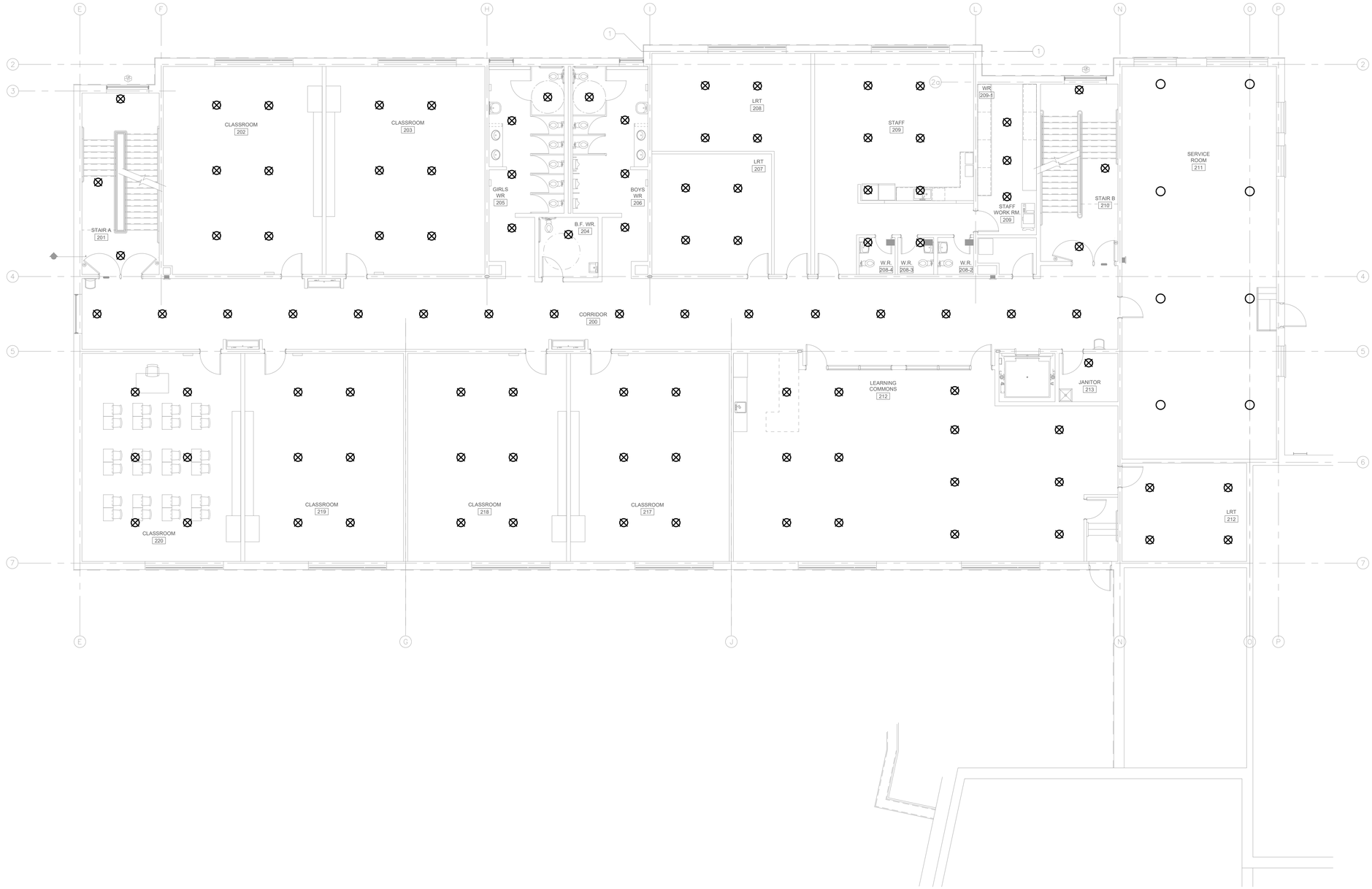


| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
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415 EASTBRIDGE AVENUE, WELLAND, ON.

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SECOND FLOOR PLAN - FIRE PROTECTION LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |

| scale | date |
|---|---|
| 1/8" = 1'-0" | 20JUNE2025 |

| job number | issue |
|---|---|
| 25021 | 2 |

drawing number

M4-3

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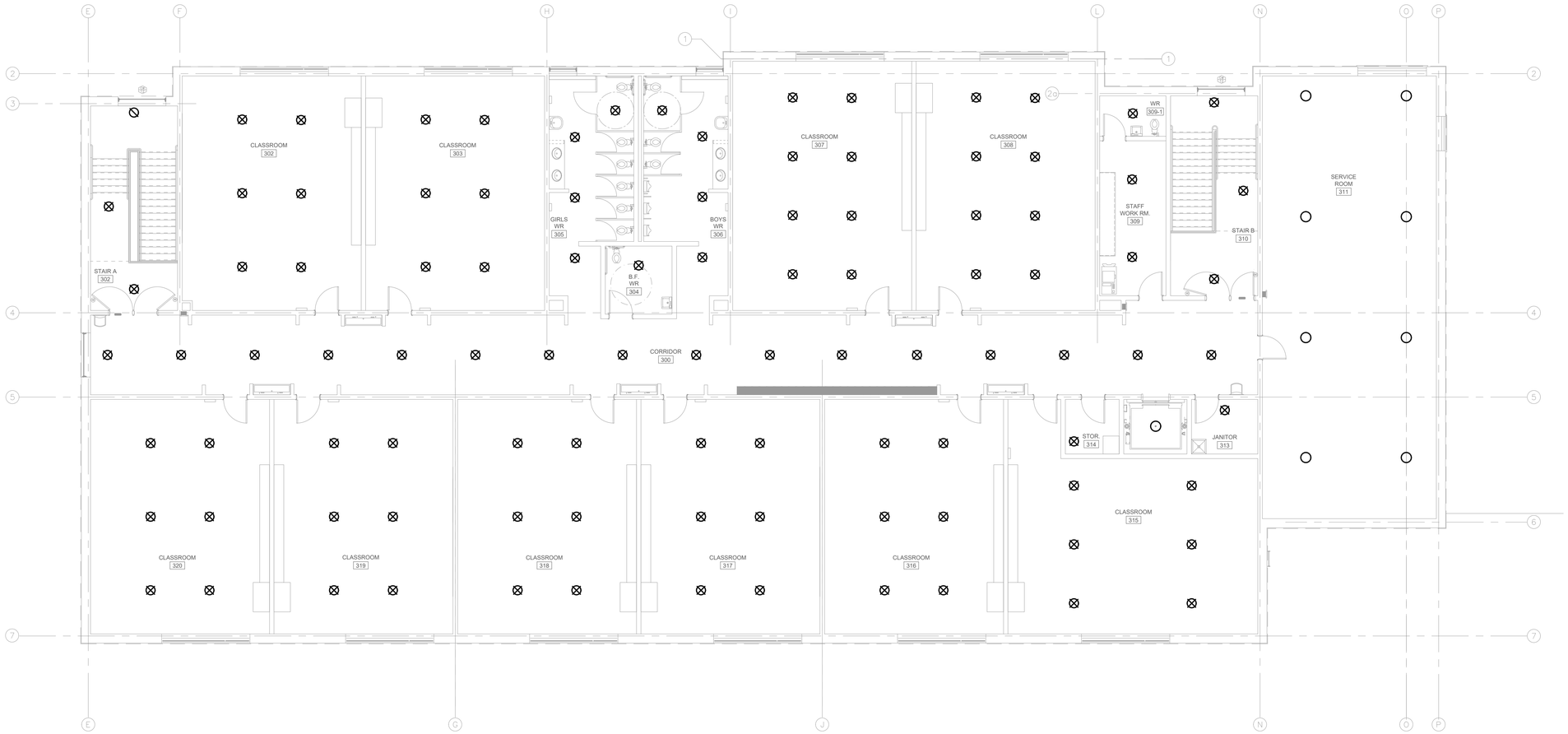


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| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | DS |
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415 EASTBRIDGE AVENUE, WELLAND, ON.

drawing title

THIRD FLOOR PLAN - FIRE PROTECTION LAYOUT

| drawn by | designed by |
|---|---|
| MR | DS |
| **scale** | **date** |
| 1/8" = 1'-0" | 20JUNE2025 |
| **job number** | **issue** |
| 25021 | 2 |

drawing number

M4-4

24"x36" Tabloid
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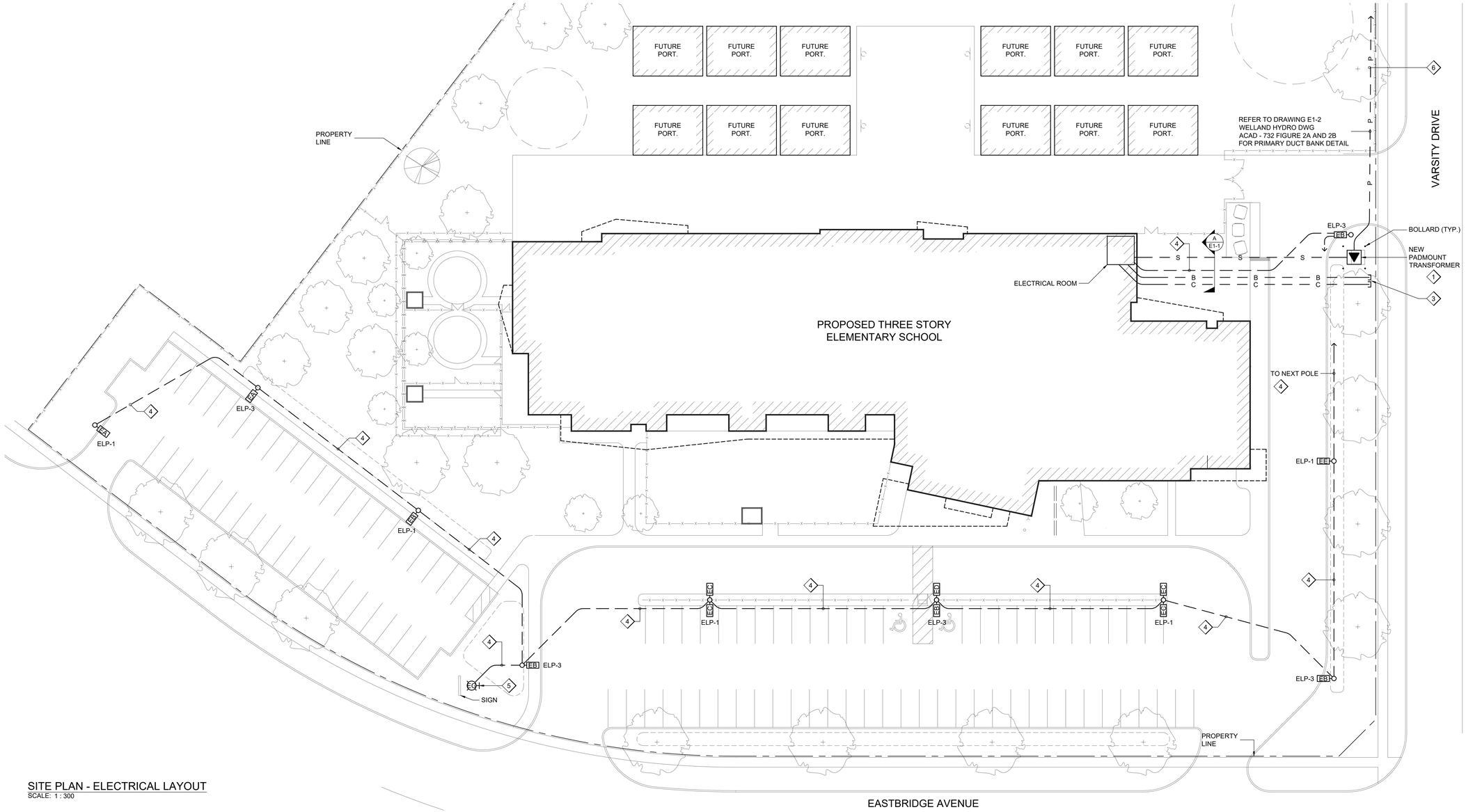
plotted by: mreuter on Feb 20, 2026 - 9:40am




## SITE PLAN - ELECTRICAL LAYOUT

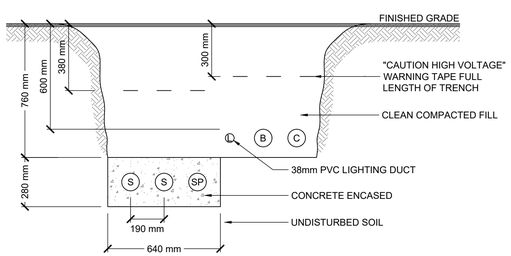
SCALE: 1 : 300

## GENERAL NOTES:

1. ALL SPARE DUCTS TO BE COMPLETE WITH PULL ROPE AND CAPPED AT BOTH ENDS.

## DRAWING NOTES:

1. NEW PAD MOUNT TRANSFORMER SUPPLIED AND INSTALL BY WELLAND HYDRO. ELECTRICAL CONTRACTOR TO PROVIDE PRECAST CONCRETE VAULT COMPLETE WITH GROUNDING TO WELLAND HYDRO SPECIFICATIONS. CONTACT WELLAND HYDRO PRIOR TO PLACEMENT OF VAULT.
2. LOCATION OF EXISTING HIGH VOLTAGE SWITCHGEAR SG27. ELECTRICAL CONTRACTOR TO PROVIDE PRIMARY TRENCH AND CONDUIT FROM TRANSFORMER VAULT TO SWITCHGEAR. CONNECT PRIMARY CONDUITS TO STUBBED OUT SWITCHGEAR CONDUITS. PROVIDE PULL ROPE FROM VAULT TO VAULT.
3. TERMINATE BELL AND NRBN CONDUITS AT PROPERTY LINE AS PER UTILITY REQUIREMENTS.
4. 3 #10 + GRD - 1" PCV MIN 600mm BELOW GRADE c/w WARNING TAPE.
5. PROVIDE 12" x 12" x 2" THICK CONCRETE BASE. COORDINATE DISTANCE FROM SIGN ON SITE WITH DSBN.
6. ELECTRICAL CONTRACTOR TO PROVIDE PRIMARY TRENCH AND CONDUIT FROM TRANSFORMER VAULT TO SWITCHGEAR. REFER TO KEYPLAN DRAWING NOTE 2.

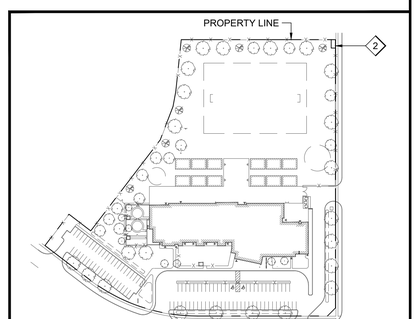



A / E1-1 SECONDARY DUCT BANK DETAIL

SCALE: N. T. S.

## DUCT LEGEND

- (S) 100mm PVC CONDUIT FOR SECONDARY CONDUCTORS
- (SP) 100mm PVC SPARE CONDUIT c/w PULL ROPE
- (B) 100mm PVC CONDUIT FOR BELL TELEPHONE FROM PROPERTY LINE TO ELECTRICAL ROOM.
- (C) 100mm PVC CONDUIT FOR DATA (NRBN) FROM PROPERTY LINE TO ELECTRICAL ROOM.




KEYPLAN - SITE PLAN

SCALE: N.T.S.

| issue | issued for | date | int. |
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| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | CR |
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| 0 | BUILDING PERMIT | 14NOV2025 | CR |

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LICENSED PROFESSIONAL ENGINEER
20 Feb 2026
A. J. MEYER
100211449
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SITE PLAN ELECTRICAL LAYOUT

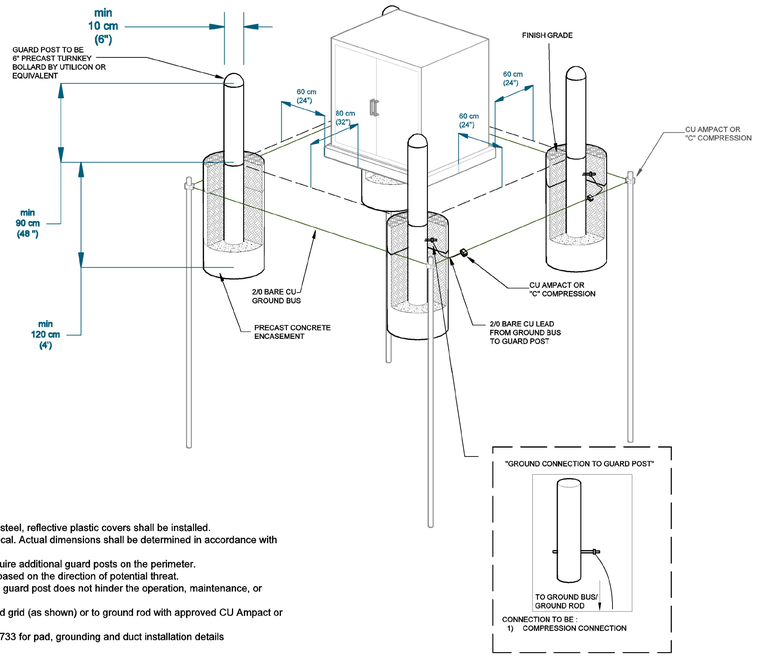
| drawn by | designed by |
|---|---|
| PB | CR |
| scale | date |
| AS NOTED | 14AUG2025 |
| job number | issue |
| 25021 | 2 |

drawing number

E1-1

24x36" Metric
P:\2025 Projects\25021 DSBN Two New Schools RFP\Drawings\Electrical\25021 Elec Site.dwg drawing tab: E1-1
plotted by: pbiamonte on Feb 19, 2026 - 12:37pm

# DETAIL FOR GUARD POST INSTALLATION AND GROUNDING




**GUARD POST INSTALLATION NOTES:**

1. Guard post shall be precast galvanized steel, reflective plastic covers shall be installed.
2. Dimensions shown in this figure are typical. Actual dimensions shall be determined in accordance with the specific equipment being installed.
3. Equipment in high-traffic area might require additional guard posts on the perimeter.
4. Guard post locations to be determined based on the direction of potential threat.
5. Care should be taken to ensure that the guard post does not hinder the operation, maintenance, or replacement of the equipment.
6. Guard post shall be connected to ground grid (as shown) or to ground rod with approved CU Ampact or "C" Compression connection.
7. Refer to Drawings ACAD 732 or ACAD 733 for pad, grounding and duct installation details

Welland Hydro
ELECTRIC SYSTEM CORP.
POWERING WELLAND'S FUTURE

WELLAND HYDRO
DISTRIBUTION STANDARDS

TYPICAL GUARD POST
INSTALLATION
SPECIFICATIONS

| REV. | REASON |
|---|---|
| R1 | GROUND CONNECTOR REVISED TO SPECIFY EITHER CU AMPACT OR "C" COMPRESSION |

DWG. No. ACAD - 573
SCALE N.T.S. REV. 2
DATE DRAWN 09/09/2016

| DRAWN | CHECKED | APPROVED |
|---|---|---|
| Z.S | K.C | K.C |

# WELLAND HYDRO DISTRIBUTION SPECIFICATION
# 3-PHASE PRIMARY UNDERGROUND SERVICE

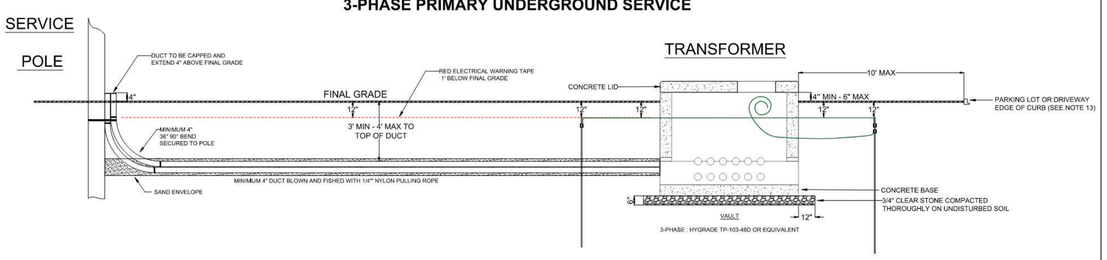



FIGURE 1
GROUNDING

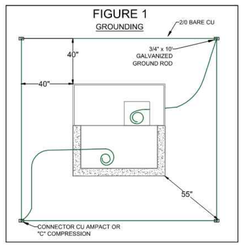



FIGURE 2A
STANDARD TRENCH

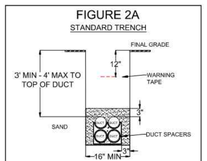



FIGURE 2B
CONCRETE TRENCH

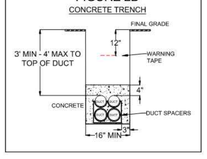



FIGURE 3
DUCT CONFIGURATION
AT POLE

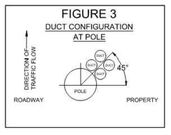
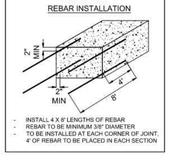



FIGURE 4
REBAR INSTALLATION




- INSTALL 4 X 8' LENGTHS OF REBAR
- REBAR TO BE MINIMUM 3/8" DIAMETER
- TO BE INSTALLED AT EACH CORNER OF JOINT, 4" OF REBAR TO BE PLACED IN EACH SECTION

**GENERAL NOTES:**

1) ALL DUCT TO BE DBII OR TYPE 2 PVC MEETING THE REQUIREMENT OF CSA 22.2 NO 211.1.
2) DUCT TO BE SET ON SPACERS AND TIED DOWN.
3) DUCT TO BE ENVELOPED IN SAND AND BACK FILLED WITH CLEAN EARTH.
4) DUCT TO BE CONCRETE ENCASED FOR ALL AREAS OF TRENCH THAT WILL BE SUBJECTED TO VEHICULAR TRAFFIC.
5) CONCRETE TO BE STOPPED SHORT OF WELLAND HYDRO OWNED POLE BUT TO ENCASE JOINT AT 90° RISER.
6) IF CONCRETE IS POURED IN MULTIPLE SECTIONS, INSTALL REBAR AT ALL JOINT LOCATIONS. REFER TO FIGURE 4.
7) DUCT TO BE STACKED AT SERVICE POLE AS PER FIGURE 3, OPPOSITE SIDE OF TRAFFIC FLOW ON A 45 DEGREE ANGLE.
8) TRENCH DETAIL REFER TO FIGURE 2A & 2B.
9) FOR GROUNDING DETAILS REFER TO FIGURE 1.
10) AT MINIMUM ONE OF THE GROUND LEADS ENTERING THE VAULT MUST BE ONE CONTINUOUS PIECE OF WIRE CONNECTING TO ALL FOUR GROUND RODS.
11) LEAVE A MINIMUM 7' OF GROUND WIRE INSIDE VAULT FOR FUTURE CONNECTION TO TRANSFORMER.
12) CONTACT WELLAND HYDRO TO DETERMINE METERING REQUIREMENTS.
13) VAULT PLACEMENT TO BE NOT MORE THAN 10' FROM PARKING LOT OR DRIVEWAY EDGE OF CURB TO ALLOW FOR TRANSFORMER INSTALLATION, AS WELL AS FUTURE MAINTENANCE OR REPLACEMENT.
14) A MINIMUM CLEARANCE OF 10' IS REQUIRED FROM EDGE OF VAULT TO BUILDING STRUCTURE.

**CUSTOMER SHALL SUPPLY AND INSTALL:**

1) ALL REQUIRED CIVIL WORK, DUCT, TRANSFORMER PAD AND GROUNDING INSTALLATION.
2) GROUNDING: 4 - 3/4" X 10' GROUND RODS, INSTALLED AS PER FIGURE 1.
3) COMPLETE SECONDARY SYSTEM INCLUDING DUCT, CABLE AND ALL EQUIPMENT REQUIRED INSIDE CUSTOMER BUILDING.
4) SUPPLY **LONG BARREL CSA COMPRESSION CONNECTORS** FOR SECONDARY CABLE CONNECTIONS INSIDE TRANSFORMER.

**WELLAND HYDRO SHALL SUPPLY AND INSTALL:**

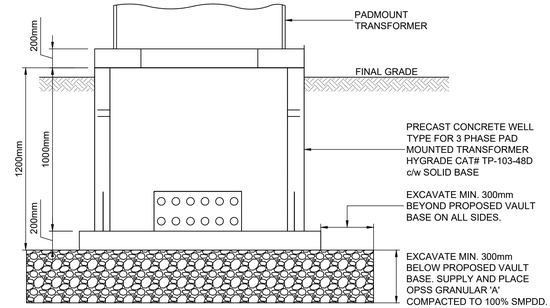
1) TRANSFORMER(S) UP TO 1.5MVA - 347/600V AND 500KVA -120/208V. CUSTOMER TO PAY FOR TRANSFORMER MINUS APPLICABLE CREDIT, WELLAND HYDRO TO OWN AND MAINTAIN.
2) COMPLETE PRIMARY SYSTEM, CABLE, TERMINATIONS, SWITCHES AND ARRESTERS. CUSTOMER TO PAY FOR PRIMARY CABLE, WELLAND HYDRO TO OWN AND MAINTAIN.
3) COMPLETE SECONDARY CABLE CONNECTIONS WITH CUSTOMER SUPPLIED LONG BARREL CSA COMPRESSION CONNECTORS.
4) WELLAND HYDRO TO INSPECT CUSTOMER INSTALLATION OF DUCT, TRANSFORMER PAD AND GROUNDING TO ENSURE ALL REQUIREMENTS ARE MET.

***ANY DEVIATION FROM THIS SPECIFICATION MUST BE APPROVED BY WELLAND HYDRO***

H:\AutoCAD Drawings\Service Requirements\ACAD 733 - 3-PH Primary Underground Service - R3.dwg

| DWG. No. | TITLE | | | DATE DRAWN | | |
|---|---|---|---|---|---|---|
| ACAD-732 | 3-PHASE PRIMARY UNDERGROUND SERVICE | | | 10/19/2018 | | |
| | DRAWN | CHECKED | APPROVED | SCALE | REV. | |
| | Z.S | BM | KC | N.T.S. | 3 | |

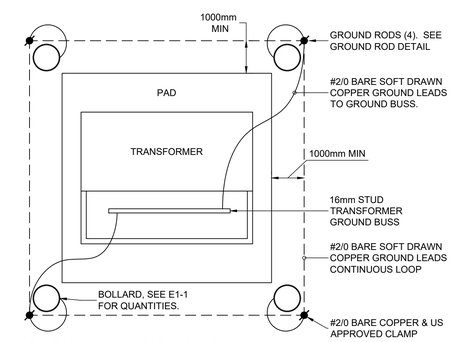
Welland Hydro
ELECTRIC SYSTEM CORP.
POWERING WELLAND'S FUTURE




## PADMOUNT STATION TRANSFORMER
SCALE: N. T. S.

NOTES:

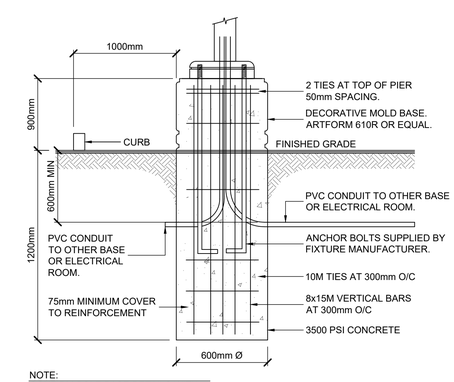
1. ALL PRIMARY CABLES SHALL BE INSTALLED IN 100mm PVC DUCTS. EACH CABLE DEDICATED TO A DUCT.
2. ALL CABLES ARE TO BE PROPERLY IDENTIFIED.
3. LOOP CABLES IN VAULT AS PER WELLAND HYDRO CONSTRUCTION STANDARDS.
4. USE USF APPROVED LOAD BREAK ELBOW CONNECTORS.
5. GEOTECHNICAL CONSULTANT TO PROVIDE WRITTEN APPROVAL THAT INSITU SUBGRADE MATERIAL IS SUITABLE FOR TRANSFORMER VAULT.




## GROUND ARRANGEMENTS
SCALE: N. T. S.

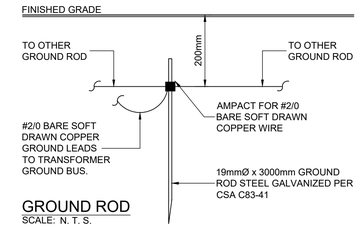
NOTE:

1. REFER TO AND MEET THE REQUIREMENTS OF WELLAND HYDRO MATERIAL SPECIFICATIONS AND CONSTRUCTION STANDARDS. PRIOR TO COMMENCING ANY WORK.




NOTE:
CONFIRM POLE BASE DETAILS WITH ENGINEER PRIOR TO CONSTRUCTION.

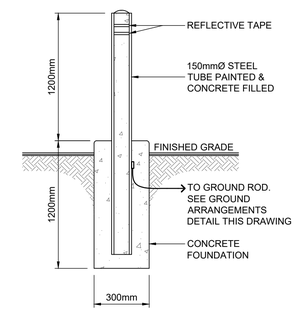
## LIGHT POLE BASE DETAIL
SCALE: N. T. S.



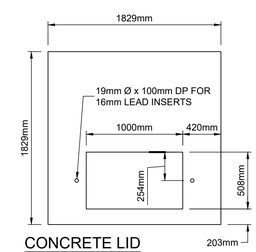

## GROUND ROD
SCALE: N. T. S.

NOTES:
SYSTEM AND EQUIPMENT GROUNDING CONDUCTORS SHALL BE INTERCONNECTED

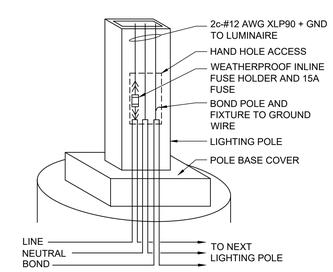
1. FOUR 19mmØ X 3000mm LONG GROUND RODS TO BE INSTALLED OPPOSITE EACH CORNER OF THE FOUNDATION TO A DEPTH OF NOT LESS THAN 200mm, WITH A MINIMUM SEPARATION OF 1950mm BETWEEN GROUND RODS.
2. ALL GROUND RODS TO BE CONNECTED WITH #2/0 BARE COPPER WIRE TO FORM A COMPLETE LOOP AROUND THE EQUIPMENT AT A DISTANCE OF AT LEAST 1000mm.
3. ALL NON-CURRENT CARRYING PARTS OF THE EQUIPMENT SHALL BE CONNECTED TO THE GROUND LOOP WITH A #2/0 BARE COPPER WIRE.




## BOLLARD DETAIL
SCALE: N.T.S.




## CONCRETE LID
SCALE: N.T.S.




## EXTERIOR LIGHT POLE TYPICAL WIRING DETAIL
SCALE: N. T. S.

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | CR |
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| 0 | BUILDING PERMIT | 14NOV2025 | CR |

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LICENSED PROFESSIONAL ENGINEER
20 Feb 2026
A. J. MEYER
100211449
PROVINCE OF ONTARIO


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DSBN
DISTRICT SCHOOL BOARD OF NIAGARA

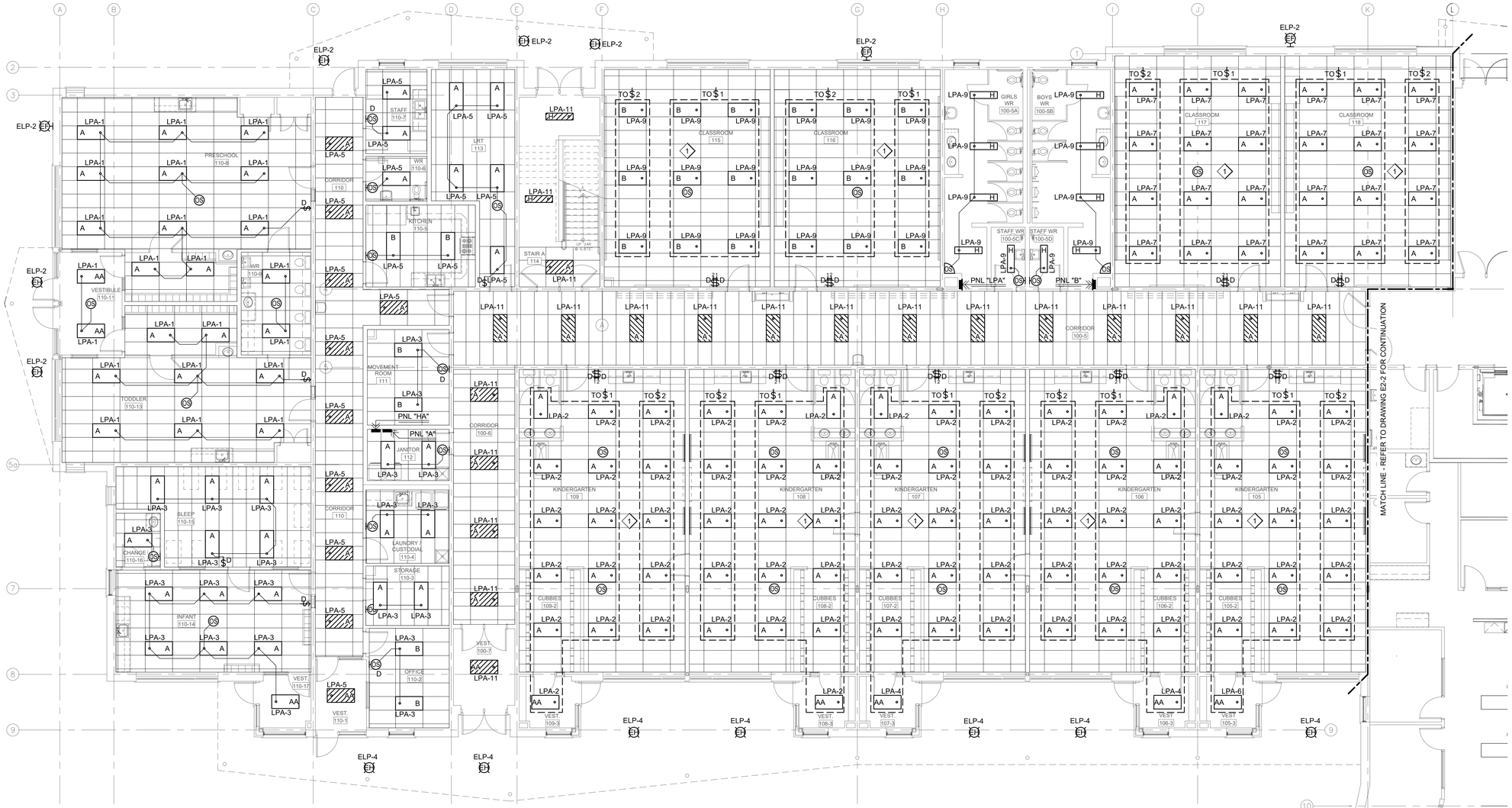
project title
PROPOSED NEW ELEMENTARY SCHOOL
415 EASTBRIDGE AVENUE, WELLAND ON.

drawing title
ELECTRICAL DETAILS

| drawn by | designed by |
|---|---|
| PB | CR |
| scale | date |
| AS NOTED | 14AUG2025 |
| job number | issue |
| 25021 | 2 |

drawing number
E1-2


24x36" Metric
P:\2025 Projects\25021 DSBN Two New Schools RFP\Drawings\Electrical\25021 Elec Site.dwg drawing tab: E1-2
plotted by: pbiamonte on Feb 19, 2026 - 12:37pm




## PARTIAL GROUND FLOOR PLAN SOUTH - NEW LIGHTING LAYOUT

SCALE: 1/8" = 1' - 0"

## GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL ROOM ELEVATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATION OF DEVICES.
2. EQUIPMENT INVOICING/PURCHASE CONFIRMATION:

   THE CONTRACTOR, AS PART OF THE INVOICING FOR THE PROJECT, MUST INCLUDE A LIST OF MATERIALS AND QUANTITIES USED ON THE PROJECT. THIS CAN EITHER BE BY INVOICE FROM THE SUPPLIER (WHICH MUST BE MARKED A 'PURCHASED' OR 'PAID'), OR BY A LETTER ON THE CONTRACTOR'S LETTERHEAD LISTING THE MATERIALS AND QUANTITIES USED ON THE PROJECT.

   THIS LIST OF MATERIALS AND QUANTITIES MUST INCLUDE:

   - ALL FIXTURES, LAMPS, AND BALLASTS
     - o INCLUDING MANUFACTURER AND MODEL #
   - ALL HARDWARE INCLUDED FOR CONTROL SYSTEMS
     - o INCLUDING OCCUPANCY SENSORS, ROOM CONTROLLERS, AND DAYLIGHT SENSORS
     - o MUST INCLUDE MANUFACTURER AND MODEL #

   PLEASE CONTACT DSBN FOR QUESTIONS REGARDING EQUIPMENT PURCHASE CONFIRMATIONS.

## DRAWING NOTES:

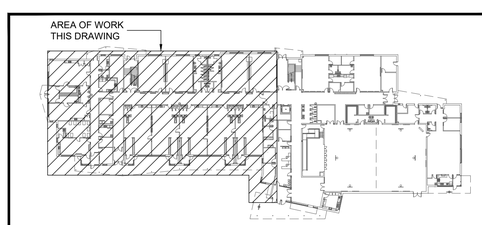
1. REFER TO CLASSROOM LIGHTING CONTROL WIRING DIAGRAM DRAWING E5-1.

### PANEL "LPA"

☒ FLUSH
☐ SURFACE
☒ SPRINKLER PROOF
☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 60A
LOCATION: CORRIDOR 100-5
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRESCHOOL & TODDLER LIGHTS | 0.5 | | | 15 | 1 | 2 | 15 | 0.5 | | | KINDERGARTEN 108 & 109 |
| SLEEP & INFANT LIGHTS | | 0.5 | | 15 | 3 | 4 | 15 | | 0.6 | | KINDERGARTEN 106 & 107 |
| PRESCHOOL CORR. & STAFF, LRT | | | 0.5 | 15 | 5 | 6 | 15 | | | 0.5 | KINDERGARTEN 105 |
| CLASSROOM 117 & 118 LTS | 0.5 | | | 15 | 7 | 8 | 15 | | | | SPARE |
| WR & CLASSROOM 115 & 116 LTS | | 0.7 | | 15 | 9 | 10 | 15 | | | | SPARE |
| SOUTH CORRIDOR 100-5, 100-6 | | | 0.4 | 15 | 11 | 12 | | | | | |
| SPARE | | | | 15 | 13 | 14 | | | | | |
| SPARE | | | | 15 | 15 | 16 | | | | | |
| | | | | | 17 | 18 | | | | | |
| | 1.0 | 1.2 | 0.9 | load | 60A 3P | load | | 0.5 | 0.6 | 0.5 | |
| | A | B | C | Total Connected : | 4.7kW | | | A | B | C | |




## KEYPLAN - GROUND FLOOR

SCALE: N.T.S.

| issue | issued for | date | init |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | CR |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | CR |
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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

PARTIAL GROUND FLOOR PLAN SOUTH NEW LIGHTING LAYOUT

| drawn by | designed by |
|---|---|
| PB | CR |
| scale | date |
| AS NOTED | 15 JUL 2025 |
| job number | issue |
| 25021 | 2 |

drawing number

E2-1

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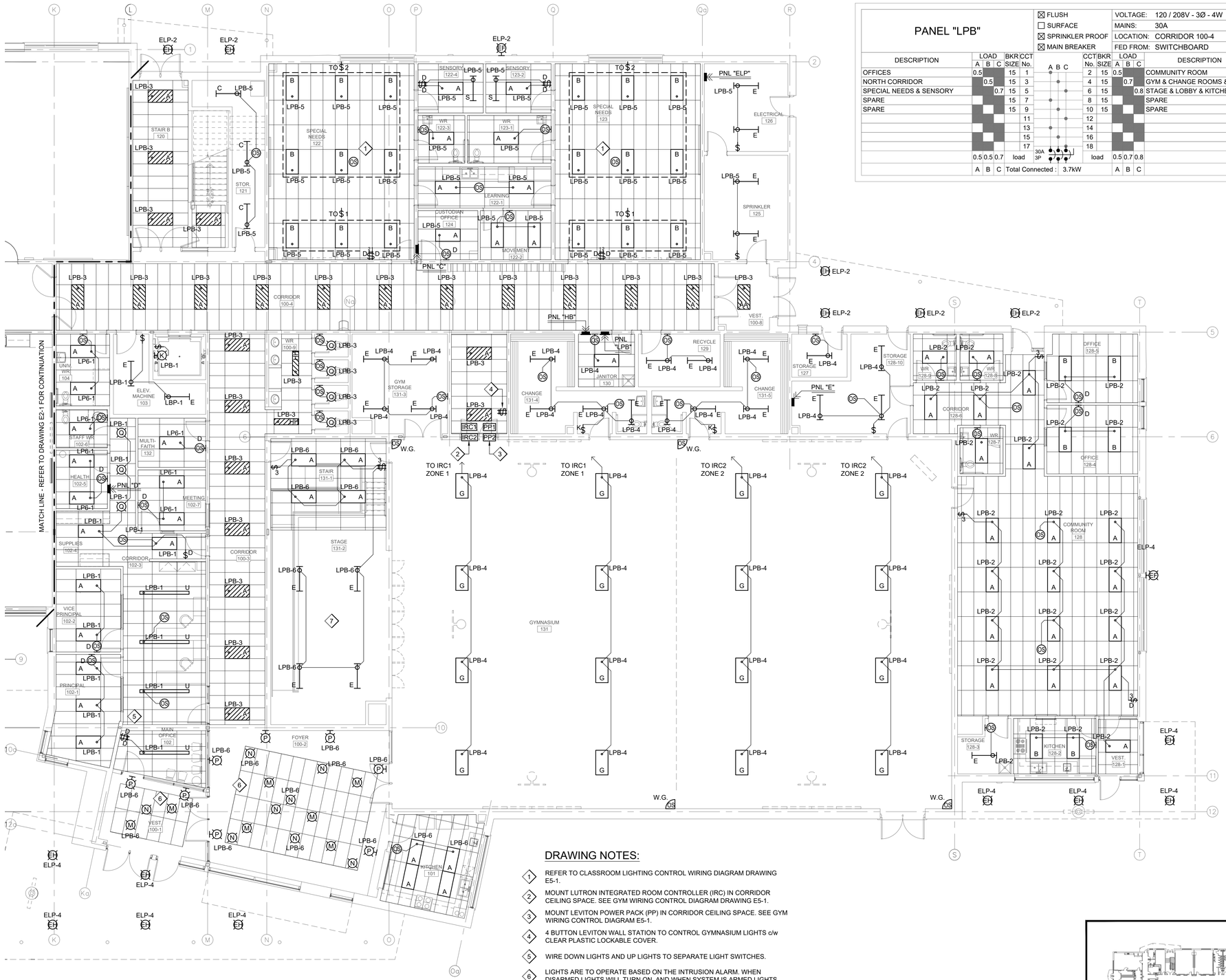
plotted by: pbiamonte on Feb 19, 2026 - 12:37pm
24"x36" Isopanel




PARTIAL GROUND FLOOR PLAN NORTH - NEW LIGHTING LAYOUT
SCALE: 1/8" = 1' - 0"

## PANEL "LPB"

☒ FLUSH
☐ SURFACE
☒ SPRINKLER PROOF
☒ MAIN BREAKER

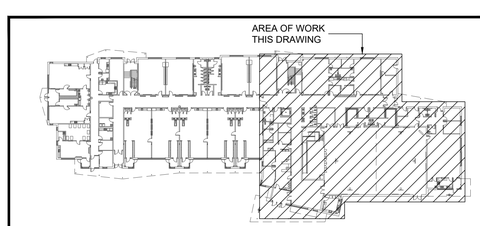
| | |
|---|---|
| VOLTAGE: | 120 / 208V - 3Ø - 4W |
| MAINS: | 30A |
| LOCATION: | CORRIDOR 100-4 |
| FED FROM: | SWITCHBOARD |

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OFFICES | 0.5 | | | 15 | 1 | 2 | 15 | 0.5 | | | COMMUNITY ROOM |
| NORTH CORRIDOR | | 0.5 | | 15 | 3 | 4 | 15 | | 0.7 | | GYM & CHANGE ROOMS & STOR. |
| SPECIAL NEEDS & SENSORY | | | 0.7 | 15 | 5 | 6 | 15 | | | 0.8 | STAGE & LOBBY & KITCHEN |
| SPARE | | | | 15 | 7 | 8 | 15 | | | | SPARE |
| SPARE | | | | 15 | 9 | 10 | 15 | | | | SPARE |
| | | | | | 11 | 12 | | | | | |
| | | | | | 13 | 14 | | | | | |
| | | | | | 15 | 16 | | | | | |
| | | | | | 17 | 18 | | | | | |
| | 0.5 | 0.5 | 0.7 | load | | | load | 0.5 | 0.7 | 0.8 | |
| | A | B | C | Total Connected : | | 3.7kW | | A | B | C | |

A B C
30A 3P

## DRAWING NOTES:

1. REFER TO CLASSROOM LIGHTING CONTROL WIRING DIAGRAM DRAWING E5-1.
2. MOUNT LUTRON INTEGRATED ROOM CONTROLLER (IRC) IN CORRIDOR CEILING SPACE. SEE GYM WIRING CONTROL DIAGRAM DRAWING E5-1.
3. MOUNT LEVITON POWER PACK (PP) IN CORRIDOR CEILING SPACE. SEE GYM WIRING CONTROL DIAGRAM E5-1.
4. 4 BUTTON LEVITON WALL STATION TO CONTROL GYMNASIUM LIGHTS c/w CLEAR PLASTIC LOCKABLE COVER.
5. WIRE DOWN LIGHTS AND UP LIGHTS TO SEPARATE LIGHT SWITCHES.
6. LIGHTS ARE TO OPERATE BASED ON THE INTRUSION ALARM. WHEN DISARMED LIGHTS WILL TURN ON, AND WHEN SYSTEM IS ARMED LIGHTS WILL TURN OFF.
7. PROVIDE BLACK FINISH LIGHT FIXTURE FOR STAGE LIGHTING.




KEYPLAN - GROUND FLOOR
SCALE: N.T.S.

| issue | issued for | date | int. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | CR |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | CR |
| 0 | BUILDING PERMIT | 14NOV2025 | CR |

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415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

PARTIAL GROUND FLOOR PLAN NORTH NEW LIGHTING LAYOUT

| drawn by | designed by |
|---|---|
| PB | CR |
| scale | date |
| AS NOTED | 15 JUL 2025 |
| job number | issue |
| 25021 | 2 |

drawing number

E2-2

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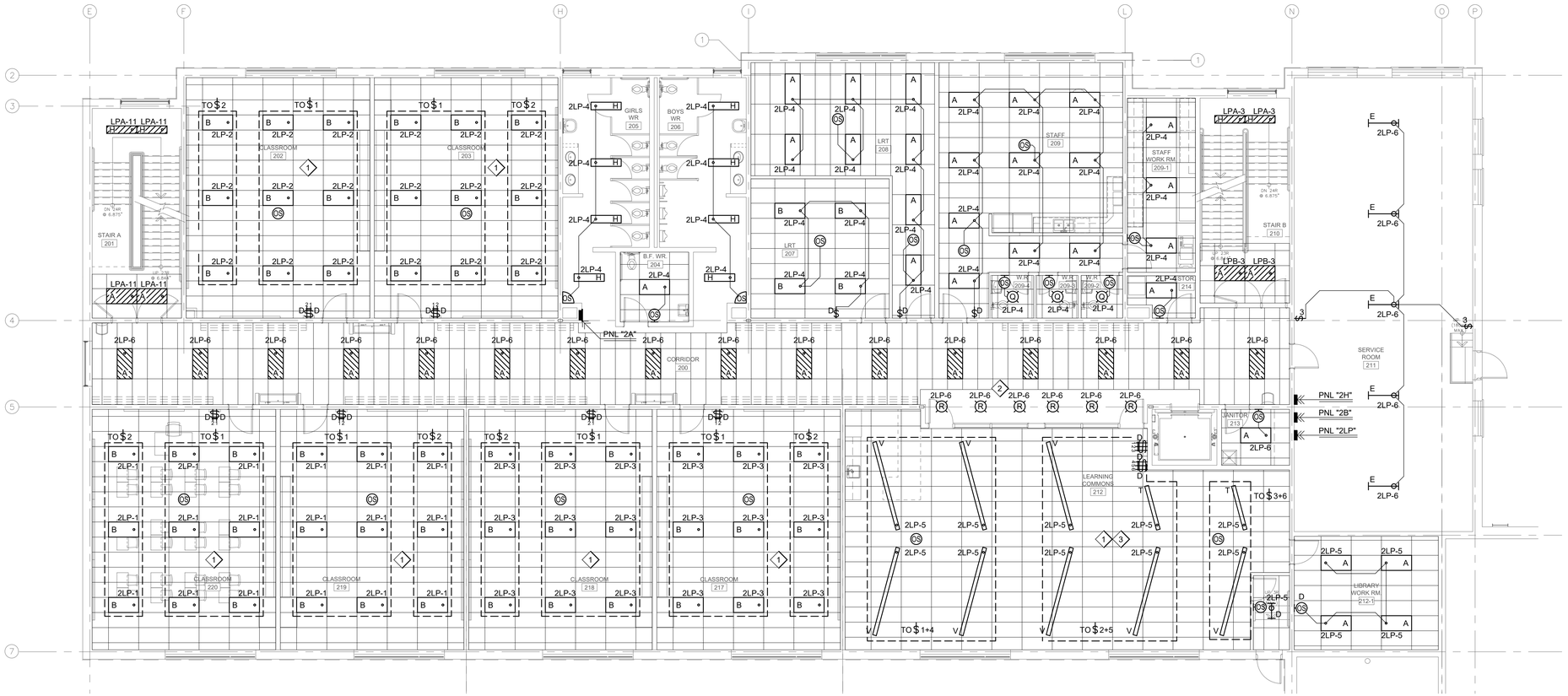
plotted by: pbiamonte on Feb 19, 2026 - 12:37pm




## DRAWING NOTES:

1. REFER TO CLASSROOM LIGHTING CONTROL WIRING DIAGRAM DRAWING E5-1.
2. LIGHTS ARE TO OPERATE BASED ON THE INTRUSION ALARM. WHEN DISARMED LIGHTS WILL TURN ON, AND WHEN SYSTEM IS ARMED LIGHTS WILL TURN OFF.
3. WIRE DOWN LIGHTS AND UP LIGHTS TO SEPARATE LIGHT SWITCHES.

## SECOND FLOOR PLAN - NEW LIGHTING LAYOUT

SCALE: 1/8" = 1' - 0"

## LEGEND

- A — 2' x 4' RECESSED OR HIGH BAY LED LIGHT FIXTURE. "A" DENOTES FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE DRAWING E2-4.
- OS — 2' x 4' RECESSED LED LIGHT FIXTURE. "A" DENOTES FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE DRAWING E2-4. LIGHTS ARE TO OPERATE BASED ON THE INTRUSION ALARM. WHEN DISARMED LIGHTS WILL TURN ON, AND WHEN SYSTEM IS ARMED LIGHTS WILL TURN OFF.
- C — 4' SURFACE OR SUSPENDED LED STRIP LIGHT FIXTURE. "C" DENOTES FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE DRAWING E2-4.
- F — WALL MOUNTED LED LIGHT FIXTURE. "F" DENOTES FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE DRAWING E2-4.
- H — 1' x 4' RECESSED DRYWALL LED LIGHT FIXTURE. "H" DENOTES FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE DRAWING E2-4.
- J — RECESSED LED POTLIGHT FIXTURE "J" DENOTES FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE DRAWING E2-4.
- T — SUSPENDED LED LIGHT FIXTURE. "T" DENOTE FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE DRAWING E2-4.
- EA — POLE MOUNTED LED LIGHT FIXTURE. "EA" DENOTES FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE DRAWING E2-4.
- $ — 120V/277V - 15A TOGGLE SWITCH. HUBBELL CAT# CS115W.
- 3$ — SAME AS ABOVE EXCEPT IN 3 WAY SWITCH.
- D$ — COMBINATION SWITCH AND 0-10V DIMMER. LEVITON CAT# IP710-D02.
- T$ — 120/277V - 15A TIMER SWITCH LEVITON CAT# DT130-1LW.
- OS — CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR c/w SWITCH PACKS AS REQUIRED. LEVITON CAT# OSC10-M0W. SET TIME DELAY TO 15 min.
- OS — SWITCH MOUNTED OCCUPANCY SENSOR. LEVITON CAT# ODS05-1L2 c/w WHITE COVERPLATE. SET TIME DELAY TO 15 min.
- D OS — COMBINATION SWITCH MOUNTED OCCUPANCY SENSOR AND 0-10V DIMMER. LEVITON CAT# ODD10-IDW. SET SENSOR TO VACANCY (MANUAL ON) MODE.
- OS — WALL MOUNTED OCCUPANCY. LEVITON CAT# OSW12-M.
- 125V - 15A SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE. HUBBELL CAT# 5252W c/w STAINLESS STEEL COVERPLATE.
- SAME AS ABOVE EXCEPT SPECIAL MOUNTING HEIGHT.
- 20A — 125V - 20A SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE. HUBBELL CAT# 5352W c/w STAINLESS STEEL COVERPLATE.
- 125V - 15A GFCI SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE. HUBBELL CAT# GFTRST15W c/w STAINLESS STEEL COVERPLATE.
- SAME AS ABOVE EXCEPT SPECIAL MOUNTING HEIGHT.
- 20A — 125V - 20A GFCI SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE. HUBBELL CAT# GFTRST20W c/w STAINLESS STEEL COVERPLATE.
- SPECIAL RATED RECEPTACLE. 208V - 1 PHASE OR AS NOTED.
- DISCONNECT SWITCH SIZE AND RATING AS INDICATED.
- 120V MANUAL STARTER c/w PILOT LIGHT.
- COMBINATION MAGNETIC STARTER c/w H.O.A. SELECTOR SWITCH, 100VA XFMR, PILOT LIGHT AND AUXILIARY CONTACTS.
- SS — CEILING FAN SPEED CONTROLLER SUPPLIED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
- FAN FORCE HEATER OUELLET CAT# OAC04000-T.
- MOTOR, SEE MECHANICAL.
- CEILING FAN.
- S — TEMPERATURE SENSOR SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL 50mm x 100mm BACKBOX AND 19mm CONDUIT TO ACCESSIBLE CEILING SPACE.
- T — 120V THERMOSTAT SUPPLIED BY MECHANICAL CONTRACTOR. INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- 2 — DATA OUTLET. "2" DENOTES NUMBER OF CAT 6 CABLES TO RUN FROM OUTLET TO I.T. RACK. PROVIDE BACKBOX c/w 19mm EMT CONDUIT FROM BACKBOX TO CABLE TRAY. INCLUDE FOR BUSHING ON END OF CONDUIT (CABLE TRAY END).
- AP — WIRELESS ACCESS POINT. PROVIDE 50mm x 100mm BACKBOX IN ACCESSIBLE CEILING SPACE c/w 19mm EMT TO CABLE TRAY. INCLUDE FOR BUSHING ON END OF CONDUIT (CABLE TRAY END) RUN 1x CAT6 CABLE FROM BACKBOX TO I.T. RACK.
- CEILING MOUNTED GREEN "RUNNING MAN" LED EXIT SIGN. AIMLITE CAT# RPST-U-M-WHT-UNVDC.
- WALL MOUNTED SINGLE FACE GREEN "RUNNING MAN" LED EXIT SIGN. AIMLITE CAT# RPST-U-M-WHT-UNVDC c/w ARROWS AS INDICATED ON DRAWINGS.
- BU-1 — SINGLE HEAD DC EMERGENCY REMOTE LIGHT FIXTURE. "BU-1" DENOTES FIXTURE WIRED TO EMERGENCY BATTERY UNIT "BU-1". AIMLITE CAT# RMSM-1-24-4LR-WHT.
- SAME AS ABOVE EXCEPT DOUBLE HEAD DC EMERGENCY REMOTE LIGHT FIXTURE
- BU-1 — 24VDC-100W EMERGENCY BATTERY UNIT "BU-1" c/w DUAL REMOTE HEAD AND NEMA 5-15P TWIST LOCK PLUG AND RECEPTACLE. AIMLITE CAT# EBST-24-100W-2SM-4WLJ-WHT-TLP-ATD (TYPICAL FOR BU-4 AND BU-5)
- BU-2 — SAME AS ABOVE EXCEPT 200W EMERGENCY BATTERY UNIT. (TYPICAL FOR BU-3).
- BU-3 — SAME AS ABOVE EXCEPT 150W EMERGENCY BATTERY UNIT.
- FIRE ALARM SMOKE DETECTOR.
- 135°F + 15°F RATE OF RISE FIRE ALARM HEAT DETECTOR.
- FIRE ALARM MAGNETIC DOOR HOLD OPEN WALL MOUNTED DEVICE. COORDINATE MOUNTING WITH GENERAL CONTRACTOR. INCLUDE FOR WALL BRACKETS AS REQUIRED.
- F — FIRE ALARM MANUAL PULL STATION.
- F — 100mm x 100mm FIRE ALARM HORN c/w STROBE.
- M — 100mm x 50mm MINI FIRE ALARM HORN c/w STROBE.
- S — FIRE ALARM STROBE LIGHT.
- SAF — 120V SMOKE ALARM c/w BATTERY BACKUP AND STROBE LIGHT. BRK CAT# 7020BSL.
- PS1 — NEW WALL MOUNTED 50mm HIGH DIGITAL CLOCK. CAREHAWK CAT# 24ZB20 c/w RECESSED 4 GANG BOX (RACO 693 OR EQUAL). "PS1" DENOTES CLOCK WIRED TO POWER SUPPLY "PS1".
- SAME AS ABOVE EXCEPT 100mm HIGH. CAREHAWK CAT# 24ZB40.
- NEW DOUBLE SIDED CEILING MOUNTED 100mm HIGH DIGITAL CLOCK
- IC — WALL MOUNTED INTERCOM BUTTON CALL STATION. MCBRIDE CAT# MCSW-1 c/w STAINLESS STEEL COVERPLATE. RUN CAT 5e CABLE TO ASSOCIATED SPEAKER.
- W — RECESSED WALL MOUNTED PUBLIC ADDRESS SPEAKER MCBRIDE CAT# MC20E BACKBOX c/w 8LS822-19 SPEAKER, MCT7025 TRANSFORMER AND MC25 BAFFLE.
- PA — RECESSED WALL MOUNTED PUBLIC ADDRESS SPEAKER AND INTERCOM COMBO. MCBRIDE CAT# MC20E BACKBOX c/w 45LS822-19 SPEAKER, MCSW-1 CALL SWITCH, MCT7025 TRANSFORMER AND MC25SQ BAFFLE.
- C — RECESSED CEILING MOUNTED PUBLIC ADDRESS SPEAKER MCBRIDE CAT# MC10E BACKBOX c/w 8LS822-19 SPEAKER, MCT7025 TRANSFORMER, MC11 BAFFLE AND T-BAR SUPPORT BRACKET AS NECESSARY.
- S — SURFACE WALL MOUNTED PUBLIC ADDRESS SPEAKER. MCBRIDE CAT# SMC20E BACKBOX c/w 8LS822-19, MCT7025 TRANSFORMER AND MC25 BAFFLE.
- PS — SURFACE WALL MOUNTED PUBLIC ADDRESS SPEAKER AND INTERCOM COMBO. MCBRIDE CAT# SMC20E BACKBOX c/w 45LS822-19 SPEAKER, MCSW-1 CALL SWITCH, MCT7025 TRANSFORMER AND MC25SQ BAFFLE.
- HS — PUBLIC ADDRESS SYSTEM HANDSET. RUN CAT 5e CABLE TO ASSOCIATED PUBLIC ADDRESS HORN OR SPEAKER.
- PA — SURFACE WALL MOUNTED PUBLIC ADDRESS HORN. TOA ELECTRONICS CAT#SC615T.
- PANELBOARD. FLUSH OR SURFACE AND VOLTAGE AS PER PANEL SCHEDULE.
- MS — MOTION SENSOR.
- AD — ADMINISTRATION PHONE.
- M — MICROPHONE.
- MP — MEDIA PLAYER.
- ES — ELECTRIC STRIKE SUPPLIED AND INSTALLED BY OTHERS. WIRED BY ELECTRICAL.
- CR — CARD READER. 100mm x 500mm BACKBOX c/w 19mm CONDUIT TO JUNCTION BOX (SECURE SIDE).
- DC — DOOR CONTACT. RUN 19mm CONDUIT FROM DOOR HEADER TO JUNCTION BOX (SECURE SIDE).
- BF — 100mm x 50mm BACKBOX FOR BARRIER FREE PUSH BUTTON. RUN 19mm EMT c/w FISH WIRE TO DOOR OPERATOR.
- DO — DOOR OPERATOR. SUPPLIED AND INSTALLED BY OTHERS. 120V CIRCUIT BY ELECTRICAL CONTRACTOR.
- HD — HAND DRYER.
- JB — JUNCTION BOX.
- INT — INTERCOM / CAMERA
- SC — SECURITY KEYPAD. 100mm x 500mm BACKBOX c/w 19mm CONDUIT TO JUNCTION BOX (SECURE SIDE).
- CC — SUPPLY AND INSTALL CUSTOM CLASSROOM CONTROL PANEL. REFER TO DRAWING E5-1 CLASSROOM CONTROL CONSOLE DETAIL.

| | | | |
|---|---|---|---|
| A.F.F. | ABOVE FINISHED FLOOR | MW | MICROWAVE |
| A.F.G. | ABOVE FINISHED GRADE | DW | DISHWASHER |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | EX | EXISTING TO REMAIN. |
| N.F. | NON-FUSED | W.G. | WIREGUARD |
| SB | SMARTBOARD | W.P. | WEATHER PROOF |
| F | FRIDGE | | |

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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

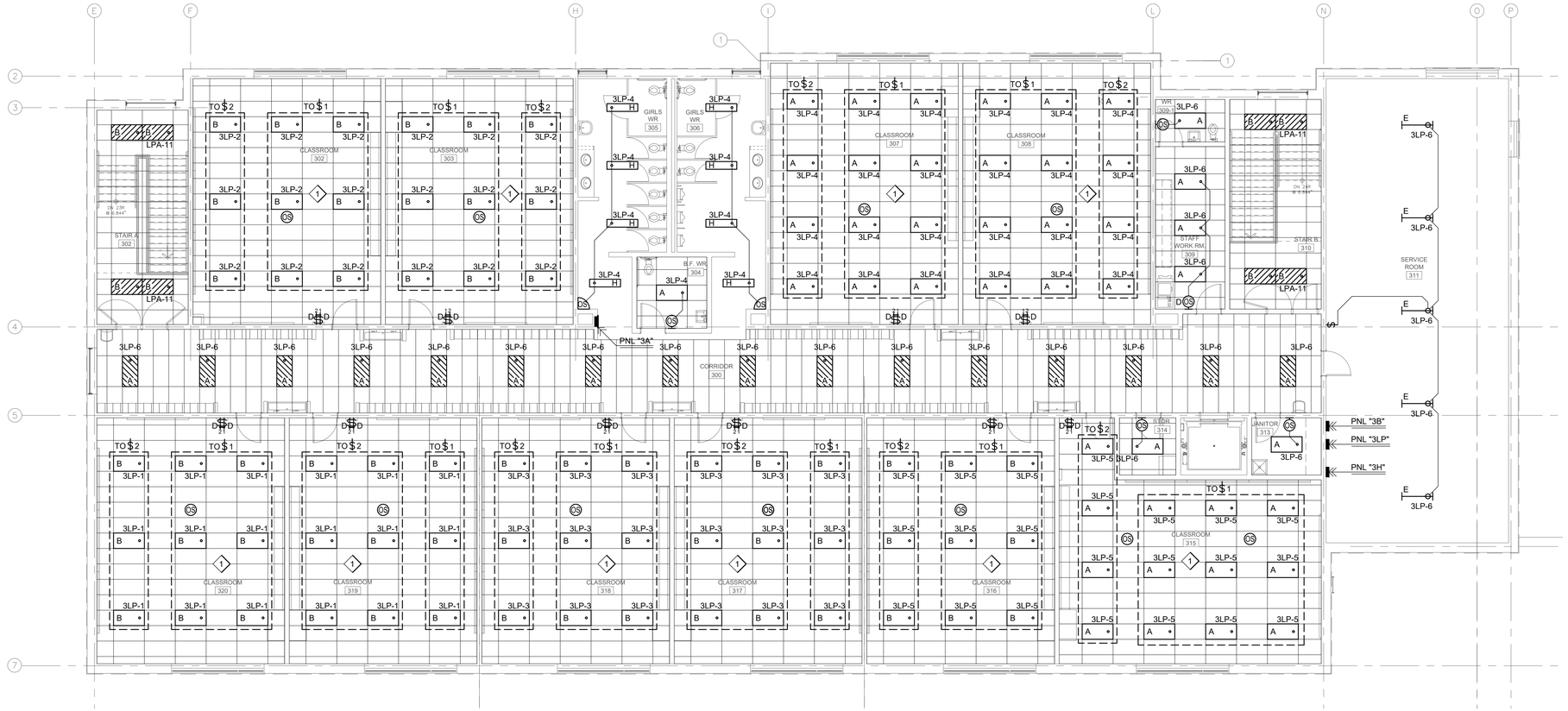
SECOND FLOOR PLAN NEW LIGHTING LAYOUT

| drawn by | designed by |
|---|---|
| PB | CR |
| scale | date |
| AS NOTED | 15 JUL 2025 |
| job number | issue |
| 25021 | 2 |

drawing number

E2-3

24"x36" Tabloid
P:\2025 Projects\25021 DSBN Two New Schools RFP\Drawings\Electrical\25021 Elec.dwg drawing tab: E2-3
plotted by: pbiamonte on Feb 19, 2026 - 12:37pm




## THIRD FLOOR PLAN - NEW LIGHTING LAYOUT

SCALE: 1/8" = 1' - 0"

## DRAWING NOTES:

1. REFER TO CLASSROOM LIGHTING CONTROL WIRING DIAGRAM DRAWING E5-1.

### EXTERIOR LIGHT FIXTURE SCHEDULE

| TYPE | MANUFACTURER | CAT # | VOLTS | LAMPS | LAMP COLOUR | MOUNTING | MOUNTING HEIGHT | LOCATION / REMARKS |
|---|---|---|---|---|---|---|---|---|
| EA | SIGNIFY | ECF-S-32L-1A-WW-G2-4-HIS | 120V | 106W | 3000K | POLE | 6.7m A.F.G. | EXTERIOR POLE MOUNTED LIGHT FIXTURE MOUNTED ON 5.8m HIGH POLE ON 900mm HIGH CONCRETE BASE. |
| EB | SIGNIFY | ECF-S-32L-1A-WW-G2-4 | 120V | 106W | 3000K | POLE | 6.7m A.F.G. | EXTERIOR POLE MOUNTED LIGHT FIXTURE MOUNTED ON 5.8m HIGH POLE ON 900mm HIGH CONCRETE BASE. |
| EC | SIGNIFY | ECF-S-32L-1A-WW-G2-4-5W | 120V | 106W | 3000K | POLE | 6.7m A.F.G. | EXTERIOR POLE MOUNTED LIGHT FIXTURE MOUNTED ON 5.8m HIGH POLE ON 900mm HIGH CONCRETE BASE. |
| ED | SIGNIFY | ECF-S-32L-1A-WW-G2-2 | 120V | 106W | 3000K | POLE | 6.7m A.F.G. | EXTERIOR POLE MOUNTED LIGHT FIXTURE MOUNTED ON 5.8m HIGH POLE WITH FIXTURE "EB" ON 900mm HIGH CONCRETE BASE. |
| EE | SIGNIFY | ECF-S-32L-1A-WW-G2-2-HIS | 120V | 106W | 3000K | POLE | 6.7m A.F.G. | EXTERIOR POLE MOUNTED LIGHT FIXTURE MOUNTED ON 5.8m HIGH POLE ON 900mm HIGH CONCRETE BASE. |
| EF | SIGNIFY | GWM-A07-830-T2M | 120V | 23W | 3000K | POLE | 3m A.F.G. | EXTERIOR WALL MOUNTED LED LIGHT FIXTURE. |
| EG | BEGA | 84 174K4-BK | 120V | 29W | 4000K | ON GROUND | n/a | EXTERIOR GROUND MOUNTED LED LIGHT FIXTURE MOUNTED ON CONCRETE BASE. |
| EH | LUMENPULSE | LCRS-A-FD-120R-L20-40K-80-W-DA1-SB-MWH-RD-MWH-NC-Q-CL | 120V | 20W LED | 4000K | RECESSED | n/a | 4"Ø EXTERIOR RECESSED LED POT LIGHT FIXTURE c/w CLEAR GLASS LENS. |

### LIGHT FIXTURE SCHEDULE

| TYPE | MANUFACTURER | CAT # | VOLTS | LAMPS | LAMP COLOUR | MOUNTING | MOUNTING HEIGHT | LOCATION / REMARKS |
|---|---|---|---|---|---|---|---|---|
| A | SIGNIFY | 2-FPZ-30L-840-4-DS-UNV-DIM | 120V | 23W LED | 4000K | RECESSED | n/a | 2' x 4' RECESSED LED LIGHT FIXTURE. |
| AA | SIGNIFY | 2-FPZ-30L-840-4-DS-UNV-DIM | 120V | 23W LED | 4000K | RECESSED | n/a | 2' x 4' DRYWALL RECESSED LED LIGHT FIXTURE. c/w DRYWALL TRIM KIT. |
| B | SIGNIFY | 2-FPZ-38L-840-4-DS-UNV-DIM | 120V | 29W LED | 4000K | RECESSED | n/a | 2' x 4' RECESSED LED LIGHT FIXTURE. |
| C | SIGNIFY | FSS440L840-UNV-DIM | 120V | 30W LED | 4000K | SURFACE | n/a | 4' LONG LED SURFACE STRIP LIGHT FIXTURE. |
| D | SIGNIFY | FSS220L840-UNV-DIM | 120V | 17W LED | 4000K | SURFACE | n/a | 2' LONG LINEAR SURFACE STRIP LIGHT FIXTURE. |
| E | SIGNIFY | FSI440L840-UNV-DIM | 120V | 30W LED | 4000K | SUSPENDED | 9' - 6" | 4' LONG LED STRIP LIGHT FIXTURE. |
| F | SIGNIFY | VTS-4-2856L-840-UN3-DIM | 120V | 32W LED | 4000K | SURFACE | n/a | 4' LONG VAPOUR TIGHT LED LIGHT FIXTURE. SET FIELD SELECTABLE BRIGHTNESS TO 4200 LUMENS. |
| G | SIGNIFY | FHG-18L-840-UNV-M-WP6/5 | 120V | 120W LED | 4000K | SUSPENDED | n/a | GYMNASIUM LED LIGHT FIXTURE c/w WIREGUARD AND FROSTED ACRYLIC SNAP LENS. MOUNT BOTTOM OF FIXTURE FLUSH WITH BOTTOM OF OWSJ. REFER TO GYMNASIUM LIGHT FIXTURE MOUNTING DETAIL DRAWING E5-1. |
| H | SIGNIFY | 1FPZ-38L-840-4-DS-UNV-DIM | 120V | 30W LED | 4000K | SURFACE | n/a | 1' x 4' DRYWALL RECESSED LED LIGHT FIXTURE. c/w DRYWALL TRIM KIT. |
| HH | SIGNIFY | 1FPZ-30L-840-4-DS-UNV-DIM | 120V | 23W LED | 4000K | SURFACE | n/a | 1' x 4' RECESSED LED LIGHT FIXTURE. |
| K | SIGNIFY | VTS-2-25L-840-UN3-DIM | 120V | 44W LED | 4000K | SURFACE | n/a | 2' VAPOUR TIGHT LED LIGHT FIXTURE. |
| M | LUMINIS | HC2800-L4L75-35K-120-UL4L50-STM | 120V | 30W LED | 3500K | SUSPENDED | REFER TO ARCH RCP | 30"Ø SUSPENDED PENDANT LIGHT FIXTURE. PROVIDE CUSTOM STEMS AS REQUIRED. COORDINATE MOUNTING HEIGHTS AND COLOURS WITH ARCHITECTURAL. |
| N | LUMINIS | CL322-L4L10-35K-120-STM | 120V | 9W LED | 3500K | SUSPENDED | REFER TO ARCH RCP | 3"Ø x 36" LONG PENDANT LIGHT FIXTURE. PROVIDE CUSTOM STEMS AS REQUIRED. COORDINATE MOUNTING HEIGHTS AND COLOURS WITH ARCHITECTURAL. |
| P | EUREKA | 3443-LED.8-35-90-120-FRO | 120V | 8W LED | 3500K | WALL | REFER TO ARCH RCP | 12"Ø x 3" LONG PROJECTION WALL SCONCE. COORDINATE MOUNTING HEIGHTS AND COLOURS WITH ARCHITECTURAL. |
| Q | SIGNIFY | 4RN C4L-10-940-M-Z10-U C4-R-DL-WH | 120V | 14W LED | 4000K | RECESSED | n/a | 4" Ø RECESSED LED POT LIGHT FIXTURE. |
| R | SIGNIFY | 4RN C4L-05-940-M-Z10-U C4-R-DL-WH | 120V | 6W LED | 4000K | RECESSED | n/a | 4" Ø RECESSED LED POT LIGHT FIXTURE. |
| S | VISIONEERING | LCOMD48-LED-BLUE-UNV-044L-P77 | 120V | 28W LED | BLUE | SURFACE | n/a | 4' LONG LED STRIP LIGHT FIXTURE. BLUE LED LIGHT FOR SENSORY ROOM. |
| T | ALW | LPX4-B-SP-F-F-S6-03-40-80-WS-V01-03-40-80-BW-V01-SW-SW-W04-2C-N-UNV-TGM | 120V | 30W LED | 4000K | SUSPENDED | 2.4m A.F.F. | 100mm x 1800mm SUSPENDED LED LINEAR LIGHT FIXTURE. COORDINATE COLOURS WITH ARCHITECTURAL. |
| U | ALW | LPX4-B-SP-F-F-S8-03-40-80-WS-V01-03-40-80-BW-V01-SW-SW-W04-2C-N-UNV-TGM | 120V | 40W LED | 4000K | SUSPENDED | 2.4m A.F.F. | 100mm x 2400mm SUSPENDED LED LINEAR LIGHT FIXTURE. COORDINATE COLOURS WITH ARCHITECTURAL. |
| V | ALW | LPX4-B-SP-F-F-S12-03-40-80-WS-V01-03-40-80-BW-V01-SW-SW-W04-2C-N-UNV-TGM | 120V | 60W LED | 4000K | SUSPENDED | 2.4m A.F.F. | 100mm x 3650mm SUSPENDED LED LINEAR LIGHT FIXTURE. COORDINATE COLOURS WITH ARCHITECTURAL. |

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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

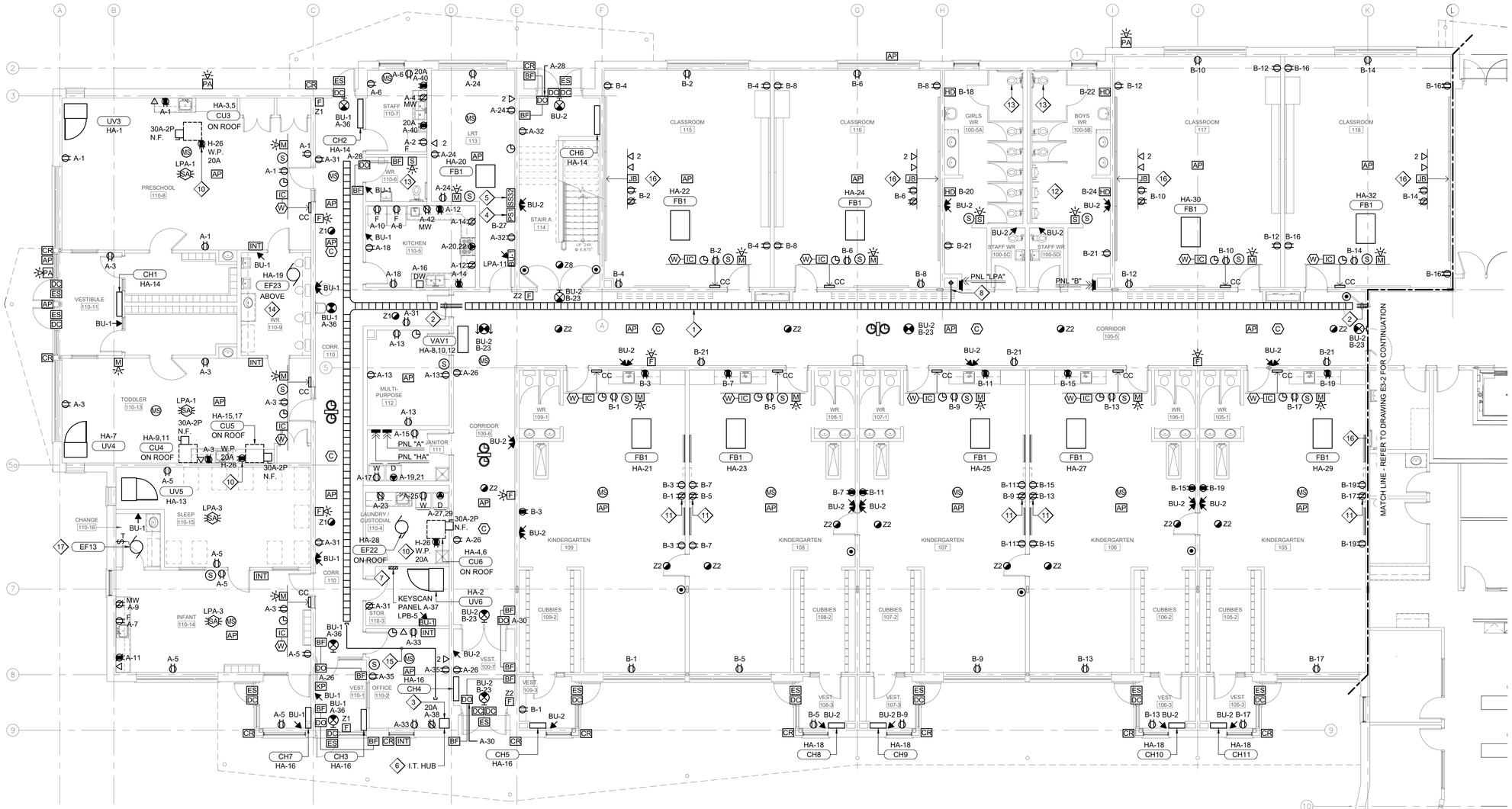
THIRD FLOOR PLAN NEW LIGHTING LAYOUT

| drawn by | designed by |
|---|---|
| PB | CR |
| scale | date |
| AS NOTED | 15 JUL 2025 |
| job number | issue |
| 25021 | 2 |

drawing number

E2-4

24"x36" Tabloid
P:\2025 Projects\25021 DSBN Two New Schools RFP\Drawings\Electrical\25021 Elec.dwg drawing tab: E2-4
plotted by: pbiamonte on Feb 19, 2026 - 12:37pm




## PARTIAL GROUND FLOOR PLAN SOUTH - NEW POWER & SYSTEMS LAYOUT

SCALE: 1/8" = 1' - 0"

## GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL ROOM ELEVATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATION OF DEVICES.
2. PROVIDE 4" HIGH HOUSE KEEPING PAD UNDER MAIN SWITCHBOARD. COORDINATE SIZE WITH EQUIPMENT SHOP DRAWINGS.
3. UNLESS NOTED OTHERWISE ALL EXHAUST FANS SHALL BE CONTROLLED BY BAS, WIRE CIRCUIT THROUGH RELAY.
4. INCLUDE FOR VERIFICATION OF ALL NEW FIRE ALARM DEVICES.

## DRAWING NOTES:

1. PROVIDE CABLE TRAY IN CEILING SPACE. COORDINATE LOCATION WITH ALL OTHER TRADES.
2. PROVIDE 3 - 3" EMT CONDUITS (c/w BUSHINGS ON EACH END) IN CEILING SPACE ABOVE DOORS FOR DATA WIRING FROM CABLE TRAY TO CABLE TRAY.
3. ALL DATA CABLING IN PRESCHOOL 110-8, TODDLER 110-12, INFANT 110-13, OFFICE 110-2 AND CORRIDOR 110 TO BE TERMINATED IN OFFICE 110-2. RUN 2x FIBRE CABLE FROM OFFICE 110-2 TO I.T. 118.
4. MOUNT CLOCK SYSTEM POWER SUPPLY PS1 AT HIGH LEVEL IN ROOM.
5. PA SYSTEM TAPBOX SS32. MOUNT AT HIGH LEVEL IN ROOM.
6. SUPPLY AND INSTALL A WALL MOUNTED LOCKABLE NETWORK CABINET TO MEET DSBN I.T. REQUIREMENTS.
7. SECURITY PANEL. PROVIDE 4" x 2" BACKBOX c/w 3/4" CONDUIT FROM JUNCTION BOX TO CABLE TRAY.
8. 3 x 3" EMT CONDUITS FROM ABOVE TO CABLE TRAY SEE DRAWING E3-3 AND E3-4.
9. WIRE EXHAUST FAN TO SAME CIRCUIT AND CONTROL AS LIGHT FIXTURE IN ROOM.
10. PROVIDE 20A-120V T-SLOT MAINTENANCE RECEPTACLE ON ROOF c/w WEATHER PROOF COVERPLATE MOUNT TO SIDE OF CONDENSING UNIT.
11. MOUNT RECEPTACLE ABOVE SMARTBOARD SCREEN. COORDINATE HEIGHT ON SITE.
12. WIRE URINAL FLUSH VALVE TIMER TO SAME CIRCUIT AND CONTROL AS LIGHT FIXTURE IN ROOM.
13. PROVIDE 120V CIRCUIT FROM UNSWITCHED LIGHTING CIRCUIT IN ROOM TO TOILET FLUSH VALVE. PROVIDE JUNCTION BOX IN CEILING FOR LOW VOLTAGE CONNECTION.
14. EXHAUST FAN WIRED TO BAS THROUGH RIB RELAY.
15. PROVIDE 2 x 2" EMT CONDUITS (c/w BUSHING ON EITHER END) IN CEILING SPACE FOR DATA WIRING FROM CABLE TRAY TO I.T. HUB.
16. REFER TO PROJECTOR WALL ELEVATION DETAIL ON DRAWING E5-1.
17. 120V TIMER FOR EXHAUST FAN.

## PANEL "HA"

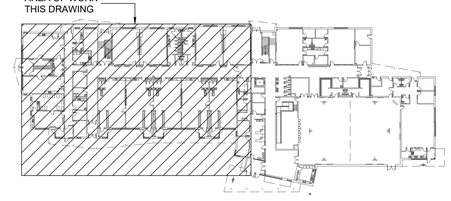
☐ FLUSH
☒ SURFACE
☒ SPRINKLER PROOF
☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 225A
LOCATION: JANITOR 111
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UV3 PRESCHOOL | 0.7 | | | 15 | 1 | 2 | 15 | 0.7 | | | UV6 STORAGE |
| CU3 PRESCHOOL | | 2.1 | | 30 | 3 | 4 | 30 | | 2.0 | | CU6 STORAGE |
| 2 #10 + GRD - 3/4" C | | | 2.1 | 2P | 5 | 6 | 2P | | | 2.0 | 2 #10 + GRD - 3/4" C |
| UV4 - TODDLER | 0.7 | | | 15 | 7 | 8 | 15 | | | | |
| CU4 - TODDLER | | 1.6 | | 30 | 9 | 10 | | | | | VAV1 |
| 2 #10 + GRD - 3/4" C | | | 1.6 | 2P | 11 | 12 | 3P | | | | |
| UV5 - INFANT | 0.7 | | | 15 | 13 | 14 | 15 | 0.9 | | | CH1, CH2, CH6 |
| CU5 - INFANT | | 1.6 | | 30 | 15 | 16 | 15 | | 1.0 | | CH3, CH4, CH5, CH7 |
| 2 #10 + GRD - 3/4" C | | | 1.6 | 2P | 17 | 18 | 15 | | | 0.6 | CH8, CH9, CH10, CH11 |
| EXHAUST FAN EF23 | 0.7 | | | 15 | 19 | 20 | 15 | 0.9 | | | FPB LRT |
| FPB KINDERGARTEN 109 | | 0.9 | | 15 | 21 | 22 | 15 | | 0.9 | | FPB CLASSROOM 115 |
| FPB KINDERGARTEN 108 | | | 0.9 | 15 | 23 | 24 | 15 | | | 0.9 | FPB CLASSROOM 116 |
| FPB KINDERGARTEN 107 | 0.9 | | | 15 | 25 | 26 | 20 | 1.0 | | | ROOFTOP MAINTENANCE REC |
| FPB KINDERGARTEN 106 | | 0.9 | | 15 | 27 | 28 | 15 | | 0.7 | | EXHAUST FAN EF22 |
| FPB KINDERGARTEN 105 | | | 0.9 | 15 | 29 | 30 | 15 | | | 0.9 | FPB CLASSROOM 117 |
| SPARE | | | | 15 | 31 | 32 | 15 | 0.9 | | | FPB CLASSROOM 118 |
| SPARE | | | | 15 | 33 | 34 | 15 | | | | SPARE |
| SPARE | | | | 15 | 35 | 36 | 15 | | | | SPARE |
| | | | | | 37 | 38 | 15 | | | | SPARE |
| | | | | | 39 | 40 | | | | | |
| | | | | | 41 | 42 | | | | | |
| | 3.7 | 7.1 | 7.1 | load | | | load | 3.5 | 3.9 | 4.4 | |
| | A | B | C | Total Connected : | | 29.7kW | | A | B | C | |

200A 3P

AREA OF WORK THIS DRAWING



## KEYPLAN - GROUND FLOOR

SCALE: N.T.S.

| issue | issued for | date | int |
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drawing title

PARTIAL GROUND FLOOR PLAN SOUTH NEW POWER & SYSTEMS LAYOUT

| drawn by | designed by |
|---|---|
| PB | CR |

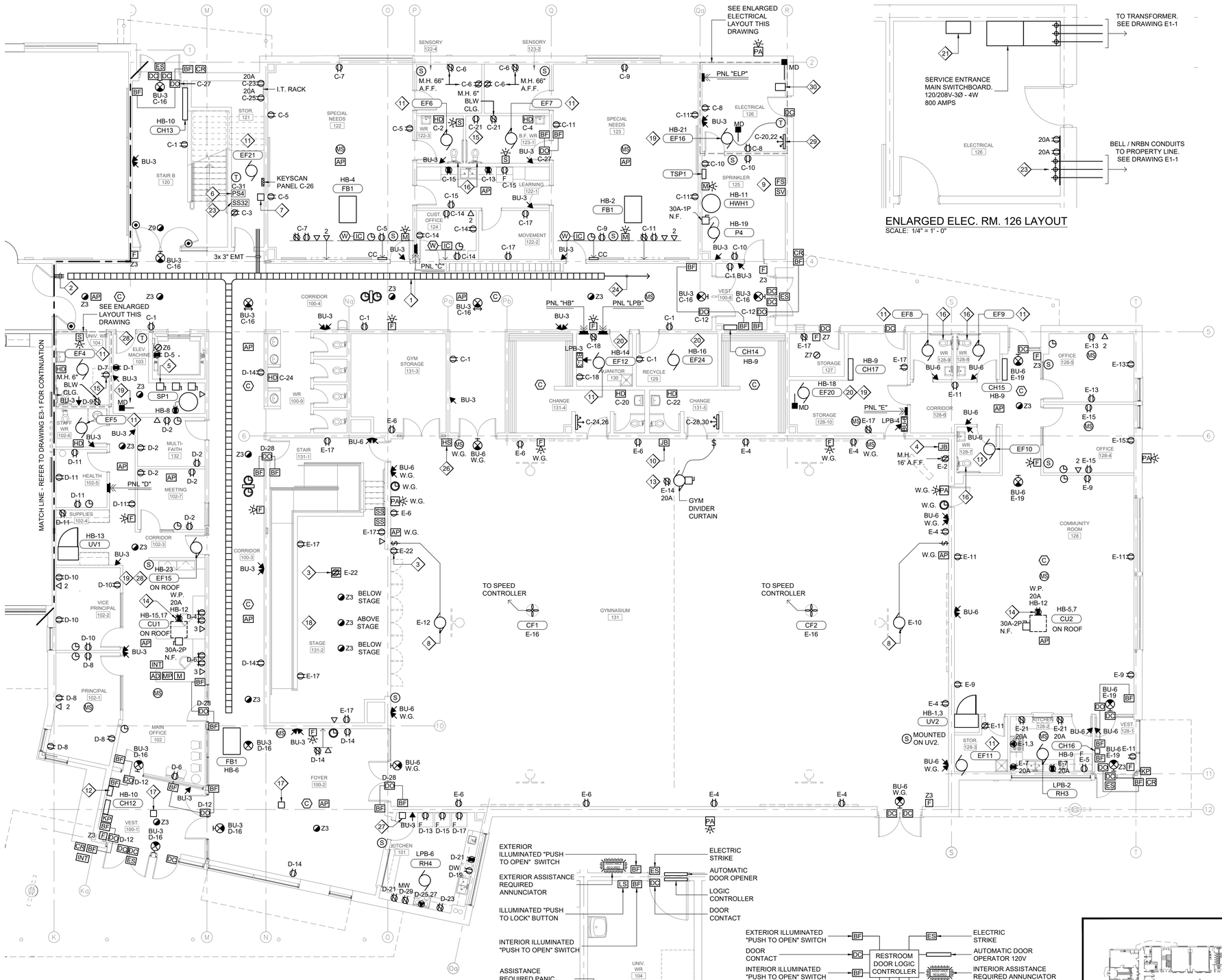
| scale | date |
|---|---|
| AS NOTED | 15 JUL 2025 |

| job number | issue |
|---|---|
| 25021 | 2 |

drawing number

E3-1

24"x36" Tabloid
P:\2025 Projects\25021 DSBN Two New Schools 8\PD\drawings\Electrical\25021 Elec-dwg drawing tab: E3-1
plotted by: pbiamonte on Feb 19, 2026 - 12:37pm



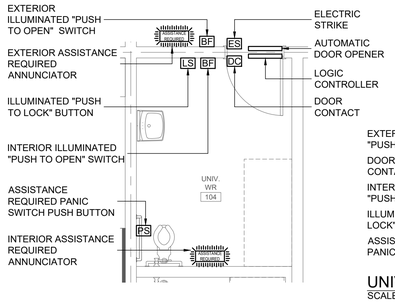

## PARTIAL GROUND FLOOR PLAN NORTH - NEW LIGHTING LAYOUT

SCALE: 1/8" = 1' - 0"



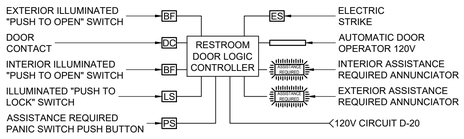

## ENLARGED ELEC. RM. 126 LAYOUT

SCALE: 1/4" = 1' - 0"




## ENLARGED UNIV. WR 104 LAYOUT

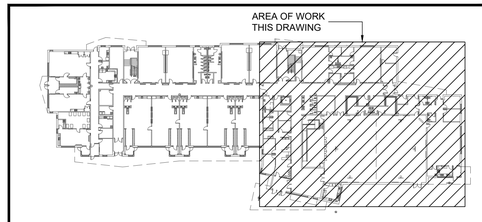
SCALE: 1/4" = 1'-0"




## UNIVERSAL WASHROOM DOOR CONTROLLER DETAIL

SCALE: N.T.S.

ALL HARDWARE SUPPLIED, INSTALLED AND WIRED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT CIRCUIT AND SUPPLY AND INSTALL BACKBOXES COMPLETE WITH 12mm EMT AND PULL STRING TO DOOR HEADER.




## KEYPLAN - GROUND FLOOR

SCALE: N.T.S.

## DRAWING NOTES:

1. PROVIDE CABLE TRAY IN CEILING SPACE. COORDINATE LOCATION WITH ALL OTHER TRADES.
2. PROVIDE 3 - 3" EMT CONDUITS (c/w BUSHINGS ON EACH END) IN CEILING SPACE ABOVE DOORS FOR DATA WIRING. FROM CABLE TRAY TO CABLE TRAY.
3. PROVIDE CEILING / WALL MOUNTED RECEPTACLE FOR STAGE LIGHTING. COORDINATE LOCATION ON SITE WITH HVS.
4. PROVIDE 4" x 4" JUNCTION BOX AT SCORE CLOCK 14' A.F.F. c/w 3/4" EMT TO SCOREBOARD CONTROLLER. SEE DRAWING NOTE 10.
5. PROVIDE 200A-3P (FUSED AT 175A TYPE D) FUSED DISCONNECT SWITCH c/w AUXILIARY CONTACT FOR ELEVATOR CONTROLLER AND 30A-2P DISCONNECT SWITCH FUSED AT 15A FOR CAB LIGHTS AND 30A-2P DISCONNECT FUSED AT 15A FOR COMMUNICATION EQUIPMENT. COORDINATE INSTALLATION WITH ELEVATOR INSTALLER.
6. MOUNT CLOCK SYSTEM POWER SUPPLY PS4 AT HIGH LEVEL IN ROOM.
7. P.A. SYSTEM PANEL CAREHAWK CH1000. COORDINATE LOCATION ON SITE. CIRCUIT C-31.
8. PROVIDE DEVICE BOX c/w 3/4" C TO BASKETBALL BACKBOARD POWER WINCH CONTROL STATION SUPPLIED BY OTHERS, INSTALLED AND WIRED BY ELECTRICAL.
9. REFER TO FIRE ALARM RISER AND SCHEDULE FOR LIST OF SPRINKLER FLOW SWITCHES, SUPERVISORY VALVES, ETC. WIRED TO FIRE ALARM CONTROL PANEL.
10. PROVIDE JUNCTION BOX FOR SCOREBOARD CONTROLLER.
11. WIRE EXHAUST FAN TO SAME CIRCUIT AND CONTROL AS LIGHT FIXTURE IN ROOM.
12. COMBINATION FIRE ALARM CONTROL PANEL AND ANNUNCIATOR.
13. COORDINATE GYM DIVIDER CURTAIN RECEPTACLE LOCATION WITH INSTALLER.
14. PROVIDE 20A-120V T-SLOT MAINTENANCE RECEPTACLE ON ROOF c/w WEATHER PROOF COVERPLATE MOUNT TO SIDE OF CONDENSING UNIT.
15. RECEPTACLE FOR FUTURE CHANGE TABLE. COORDINATE LOCATION AND HEIGHT ON SITE.
16. PROVIDE 120V CIRCUIT FROM UNSWITCHED LIGHTING CIRCUIT IN ROOM TO TOILET FLUSH VALVE. PROVIDE JUNCTION BOX IN CEILING FOR LOW VOLTAGE CONNECTION.
17. PROVIDE 120V CIRCUIT D-15 FOR FUTURE CEILING FANS.
18. DEVICES AND COVERPLATES TO BE BLACK.
19. INTERLOCK EXHAUST FAN WITH MOTORIZED DAMPERS IN ROOM SUCH THAT WHEN FAN IS ENERGIZED DAMPERS OPEN.
20. EXHAUST FAN WIRED TO BAS THROUGH RIB RELAY.
21. 13 JAW METERBASE FOR UTILITY METER.
22. LIGHTS ARE TO OPERATE BASED ON THE INTRUSION ALARM. WHEN DISARMED LIGHTS WILL TURN ON, AND WHEN SYSTEM IS ARMED LIGHTS WILL TURN OFF.
23. PROVIDE 4' x 8' x 3/4" THICK PLYWOOD BACKGROUND c/w FIRE RETARDANT PAINT AND #6 BARE GROUND FOR BELL / NRBN EQUIPMENT.
24. 2 x 2" EMT CONDUIT (c/w BUSHINGS ON EACH END) IN CEILING FROM CABLE TRAY TO TELEPHONE BACKBOARD IN ELECT RM.
25. PA SYSTEM TAPBOX SS32. MOUNT AT HIGH LEVEL IN ROOM.
26. PUBLIC ADDRESS HANDSET IN RECESSED ENCLOSURE (HAMMOND CAT# N1WF16124) CONFIRM BOX DIMENSIONS WITH HVS PRIOR TO ORDERING. COORDINATE LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
27. PROVIDE BACKBOX AND 1-1/2" CONDUIT TO ACCESSIBLE CEILING SPACE FOR FUTURE SPEED SWITCH. PROVIDE BLANK COVER PLATE.
28. EXHAUST FAN EF15 WIRED TO THERMOSTAT IN ELEVATOR MACHINE ROOM 103.
29. PROVIDE SURFACE MOUNT KIT FOR FAN FORCED HEATER.
30. PROVIDE 120V CIRCUIT C-28 FOR NATURAL GAS ZENER BARRIER.

| issue | issued for | date | int. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | CR |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | CR |
| 0 | BUILDING PERMIT | 14NOV2025 | CR |

seal

LICENSED PROFESSIONAL ENGINEER
20 Feb 2026
A. J. MEYER
100211449
PROVINCE OF ONTARIO

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All construction to be in accordance with the current Ontario Building Code and all applicable Ontario regulations.

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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

PARTIAL GROUND FLOOR PLAN NORTH NEW POWER & SYSTEMS LAYOUT

| drawn by | designed by |
|---|---|
| PB | CR |
| scale: AS NOTED | date: 15 JUL 2025 |
| job number: 25021 | issue: 2 |

drawing number

E3-2

24"x36" Ansi(E)
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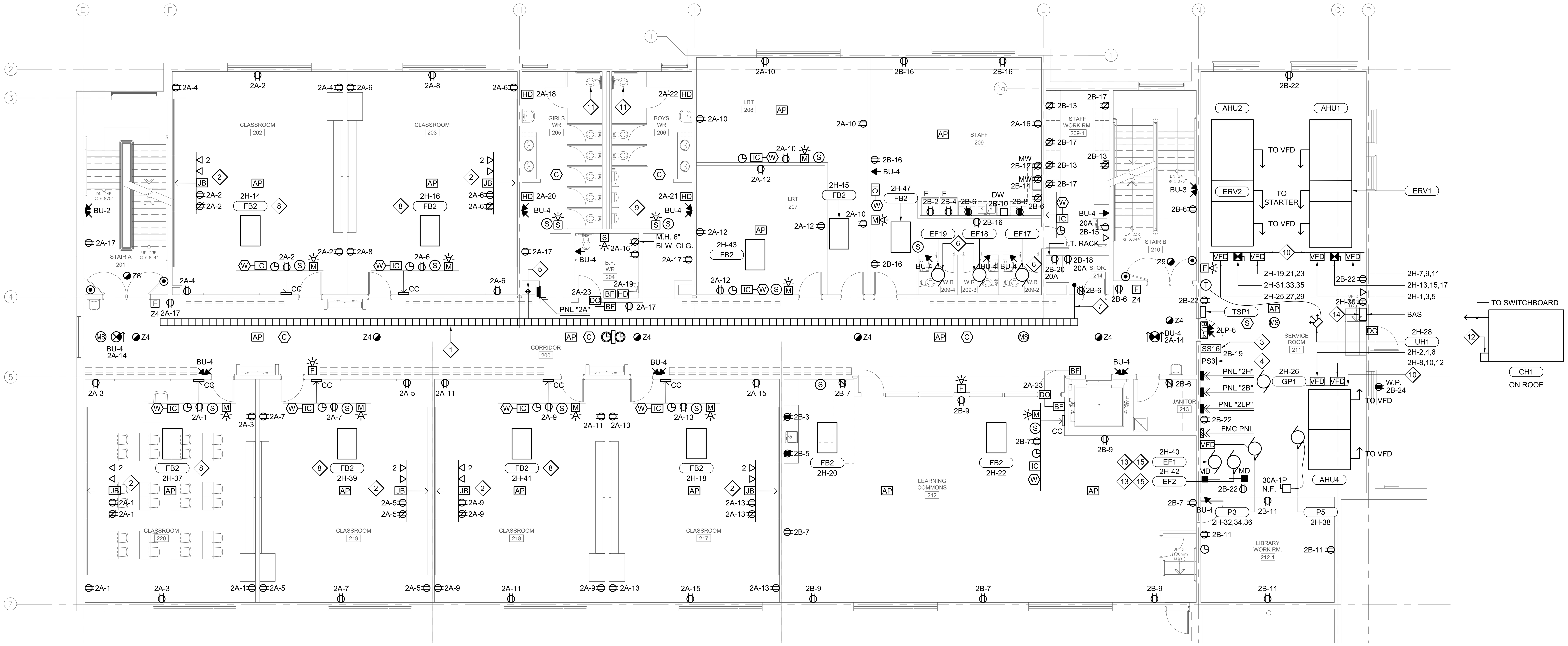
plotted by: pbiamonte on Feb 19, 2026 - 12:37pm

24"x36" Imperial




SECOND FLOOR PLAN - NEW POWER & SYSTEMS LAYOUT

SCALE: 1/8" = 1' - 0"

## DRAWING NOTES:

1. PROVIDE CABLE TRAY IN CEILING SPACE. COORDINATE LOCATION WITH ALL OTHER TRADES.
2. REFER TO PROJECTOR WALL ELEVATION DETAIL ON DRAWING E5-1.
3. MOUNT CLOCK SYSTEM POWER SUPPLY PS2 AT HIGH LEVEL IN ROOM.
4. PA SYSTEM TAPBOX SS16. MOUNT AT HIGH LEVEL IN ROOM.
5. 2 - 3" EMT CONDUITS c/w BUSHINGS ON EACH END FROM CABLE TRAY TO CABLE TRAY ON GROUND FLOOR BELOW.
6. WIRE EXHAUST FAN TO SAME CIRCUIT AND CONTROL AS LIGHT FIXTURE IN ROOM.
7. 2 - 3" EMT CONDUITS c/w BUSHINGS ON EACH END FROM CABLE TRAY TO I.T. RACK.
8. RUN 2 #10 WIRING TO FAN POWERED BOX.
9. WIRE URINAL FLUSH VALVE TIMER TO SAME CIRCUIT AND CONTROL AS LIGHT FIXTURE IN ROOM.
10. PROVIDE UNISTRUT CHANNELS TO MOUNT AIR HANDLERS VFD / MAGNETIC STARTERS.
11. PROVIDE 120V CIRCUIT FROM UNSWITCHED LIGHTING CIRCUIT IN ROOM TO TOILET FLUSH VALVE. PROVIDE JUNCTION BOX IN CEILING FOR LOW VOLTAGE CONNECTION.
12. PROVIDE 120V CIRCUIT 2H-24 FOR CHILLER HEAT TRACE.
13. EXHAUST FAN WIRED TO BAS THROUGH RIB RELAY.
14. COORDINATE LOCATION OF BAS RECEPTACLE AND DATA OUTLET ON SITE.
15. INTERLOCK EXHAUST FAN WITH MOTORIZED DAMPERS IN ROOM SUCH THAT WHEN FAN IS ENERGIZED DAMPERS OPEN.

### PANEL "HB"

☒ FLUSH ☐ SURFACE ☒ SPRINKLER PROOF ☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 100A
LOCATION: JANITOR 130
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | A B C | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UV2 COMMUNITY ROOM | 0.6 | | | 15 | 1 | | 2 | 15 | 0.9 | | | FPB SPECIAL NEEDS 123 |
| | | 0.6 | | 2P | 3 | | 4 | 15 | | 0.9 | | FPB SPECIAL NEEDS 122 |
| CU2 COMMUNITY ROOM | | | 3.6 | 60 | 5 | | 6 | 15 | | | 0.9 | FPB LOBBY |
| 3 #6 Cu + GRD - 1 1/4" EMT | 3.6 | | | 2P | 7 | | 8 | 20 | 1.2 | | | SP1 |
| CH14, CH15, CH16 | | 0.8 | | 15 | 9 | | 10 | 15 | | 0.6 | | CH12, CH13 |
| HWH1 | | | | 15 | 11 | | 12 | 20 | | | 1.0 | ROOFTOP MAINTENANCE REC |
| UV1 MAIN OFFICE | 0.7 | | | 15 | 13 | | 14 | 15 | 0.7 | | | EXHAUST FAN EF12 |
| CU1 MAIN OFFICE | | 2.1 | | 30 | 15 | | 16 | 15 | | 0.7 | | EXHAUST FAN EF24 |
| 2 #10 + GRD - 3/4" C | | | 2.1 | 2P | 17 | | 18 | 15 | | | 0.7 | EXHAUST FAN EF20 |
| PUMP P4 | 0.1 | | | 15 | 19 | | 20 | 20 | 1.5 | | | FAN FORCED HEATER |
| EXHAUST FAN EF16 | | 1.2 | | 15 | 21 | | 22 | 2P | | 1.5 | | |
| EXHAUST FAN EF15 | | | 0.7 | 15 | 23 | | 24 | 20 | | | 1.5 | FAN FORCED HEATER |
| SPARE | | | | 15 | 25 | | 26 | 2P | 1.5 | | | |
| SPARE | | | | 15 | 27 | | 28 | 20 | | 1.5 | | FAN FORCED HEATER |
| SPARE | | | | 15 | 29 | | 30 | 2P | | | 1.5 | |
| | | | | | 31 | | 32 | 15 | | | | SPARE |
| | | | | | 33 | | 34 | 15 | | | | SPARE |
| | | | | | 35 | | 36 | 15 | | | | SPARE |
| | 5.0 | 4.7 | 5.7 | load | | 100A 3P | load | | 5.8 | 5.2 | 5.6 | |
| | A | B | C | Total Connected : | | 23.7kW | | | A | B | C | |

### PANEL "2A"

☒ FLUSH ☐ SURFACE ☒ SPRINKLER PROOF ☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 100A
LOCATION: CORRIDOR 200
FED FROM: SWITCHBOARD

| | DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | A B C | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CLASSROOM 220 REC. | 1.0 | | | 15 | 1 | | 2 | 15 | 1.0 | | | CLASSROOM 202 REC. | |
| ** | CLASSROOM 220 REC. | | 1.0 | | 15 | 3 | | 4 | 15 | | 1.0 | | CLASSROOM 202 REC. | ** |
| | CLASSROOM 219 REC. | | | 1.0 | 15 | 5 | | 6 | 15 | | | 1.0 | CLASSROOM 203 REC. | |
| ** | CLASSROOM 219 REC. | 1.0 | | | 15 | 7 | | 8 | 15 | 1.0 | | | CLASSROOM 203 REC. | ** |
| | CLASSROOM 218 REC. | | 1.0 | | 15 | 9 | | 10 | 15 | | 1.0 | | LRT 208 REC | |
| ** | CLASSROOM 218 REC. | | | 1.0 | 15 | 11 | | 12 | 15 | | | 1.0 | LRT 207 REC | |
| | CLASSROOM 217 REC. | 1.0 | | | 15 | 13 | | 14 | 15 | 1.0 | | | 2ND FLOOR EXIT SIGNS | * |
| ** | CLASSROOM 217 REC. | | 1.0 | | 15 | 15 | | 16 | 20 | | 1.0 | | CHANGE TABLE REC | |
| | SOUTH CORRIDOR REC. | | | 1.0 | 15 | 17 | | 18 | 20 | | | 1.4 | HAND DRYER | |
| | HAND DRYER | 1.4 | | | 20 | 19 | | 20 | 20 | 1.4 | | | HAND DRYER | |
| | HAND DRYER | | 1.4 | | 20 | 21 | | 22 | 20 | | 1.4 | | HAND DRYER | |
| | DOOR OPERATOR | | | 0.3 | 15 | 23 | | 24 | 15 | | | | SPARE | |
| | SPARE | | | | 15 | 25 | | 26 | 15 | | | | SPARE | |
| | SPARE | | | | 15 | 27 | | 28 | 15 | | | | SPARE | |
| | SPARE | | | | 15 | 29 | | 30 | | | | | | |
| | | 4.4 | 4.4 | 3.3 | load | | 100A 3P | load | | 4.4 | 4.4 | 3.4 | | |
| | | A | B | C | Total Connected : | | 26.3kW | | | A | B | C | | |

* PROVIDE LOCK - ON CLIP ON BREAKER.

** WIRE RECEPTACLE CIRCUIT TO RECEPTACLE CONTROLLER. CONTROL SUCH THAT WHEN LIGHTS IN ROOM ARE DE-ENERGIZED RECEPTACLE CIRCUIT IS SHUT OFF.

### PANEL "2LP"

☐ FLUSH ☒ SURFACE ☒ SPRINKLER PROOF ☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 30A
LOCATION: SERVICE ROOM 211
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | A B C | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLASSROOM 219 & 220 LIGHTS | 0.5 | | | 15 | 1 | | 2 | 15 | 0.5 | | | CLASSROOM 202 & 203 LIGHTS |
| CLASSROOM 217 & 218 LIGHTS | | 0.5 | | 15 | 3 | | 4 | 15 | | 0.6 | | WR & CLASSROOM 207 & 208 LTS |
| CLASSROOM 215 & 216 & LRT LTS | | | 0.8 | 15 | 5 | | 6 | 15 | | | 0.5 | STAFF & SERV. RM. 211 & CORR. |
| SPARE | | | | 15 | 7 | | 8 | 15 | | | | SPARE |
| SPARE | | | | 15 | 9 | | 10 | 15 | | | | SPARE |
| SPARE | | | | 15 | 11 | | 12 | 15 | | | | SPARE |
| | | | | | 13 | | 14 | | | | | |
| | | | | | 15 | | 16 | | | | | |
| | | | | | 17 | | 18 | | | | | |
| | 0.5 | 0.5 | 0.8 | load | | 30A 3P | load | | 0.5 | 0.6 | 0.5 | |
| | A | B | C | Total Connected : | | 3.4kW | | | A | B | C | |

### PANEL "2B"

☐ FLUSH ☒ SURFACE ☒ SPRINKLER PROOF ☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 100A
LOCATION: SERVICE ROOM 211
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | A B C | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LEARNING COM. MICROWAVE | 1.0 | | | 15 | 1 | | 2 | 15 | 1.0 | | | STAFF 209 FRIDGE |
| L.C. COUNTERTOP REC | | 1.0 | | 15 | 3 | | 4 | 15 | | 1.0 | | STAFF 209 FRIDGE |
| L.C. COUNTERTOP REC | | | 1.0 | 15 | 5 | | 6 | 15 | | | 1.0 | STAFF 209 COUNTERTOP REC |
| LEARNING COMMONS REC | 1.0 | | | 15 | 7 | | 8 | 15 | 1.0 | | | STAFF 209 COUNTERTOP REC |
| LEARNING COMMONS REC | | 1.0 | | 15 | 9 | | 10 | 15 | | 1.0 | | STAFF 209 DISHWASHER |
| LIBRARY WORK ROOM REC | | | 1.0 | 15 | 11 | | 12 | 15 | | | 1.0 | STAFF 209 MICROWAVE |
| WORK ROOM 209 REC | 1.0 | | | 15 | 13 | | 14 | 15 | 1.0 | | | STAFF 209 MICROWAVE |
| WORK ROOM 209 PRINTER | | 1.0 | | 15 | 15 | | 16 | 15 | | 1.0 | | STAFF 209 REC |
| WORK RM 209 REC | | | 1.0 | 15 | 17 | | 18 | 20 | | | 1.0 | I.T. REC |
| CLOCK POWER SUPPLY | 0.1 | | | 15 | 19 | | 20 | 20 | 1.0 | | | I.T. REC |
| SPARE | | | | 15 | 21 | | 22 | 15 | | 1.0 | | SERVICE ROOM REC |
| SPARE | | | | 15 | 23 | | 24 | 15 | | | 1.0 | EXTERIOR ROOFTOP REC |
| SPARE | | | | 15 | 25 | | 26 | 15 | | | | SPARE |
| | | | | | 27 | | 28 | 15 | | | | SPARE |
| | | | | | 29 | | 30 | 15 | | | | SPARE |
| | | | | | 31 | | 32 | | | | | |
| | | | | | 33 | | 34 | | | | | |
| | | | | | 35 | | 36 | | | | | |
| | 3.0 | 3.0 | 2.0 | load | | 100A 3P | load | | 4.0 | 4.0 | 4.0 | |
| | A | B | C | Total Connected : | | 20kW | | | A | B | C | |

### PANEL "ELP"

☐ FLUSH ☒ SURFACE ☒ SPRINKLER PROOF ☐ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 30A
LOCATION: ELECTRICAL 126
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | A B C | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERIOR POLE LIGHTS | | | | 20 | 1 | | 2 | 15 | | | | EXT. BLD MOUNTED LGTS WEST |
| EXTERIOR POLE LIGHTS | | | | 20 | 3 | | 4 | 15 | | | | EXT. BLD MOUNTED LGTS EAST |
| SPARE | | | | 15 | 5 | | 6 | 15 | | | | SPARE |
| | | | | | 7 | | 8 | | | | | |
| | | | | | 9 | | 10 | | | | | |
| | | | | | 11 | | 12 | | | | | |
| | | | | load | | | load | | | | | |
| | A | B | C | Total Connected : | | | | | A | B | C | |

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | CR |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | CR |
| 0 | BUILDING PERMIT | 14NOV2025 | CR |

seal

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St. Catharines, ON, L2R 3M3
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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

SECOND FLOOR PLAN NEW POWER & SYSTEMS LAYOUT

| drawn by | designed by |
|---|---|
| PB | CR |
| scale | date |
| AS NOTED | 15 JUL 2025 |
| job number | issue |
| 25021 | 2 |

drawing number

E3-3

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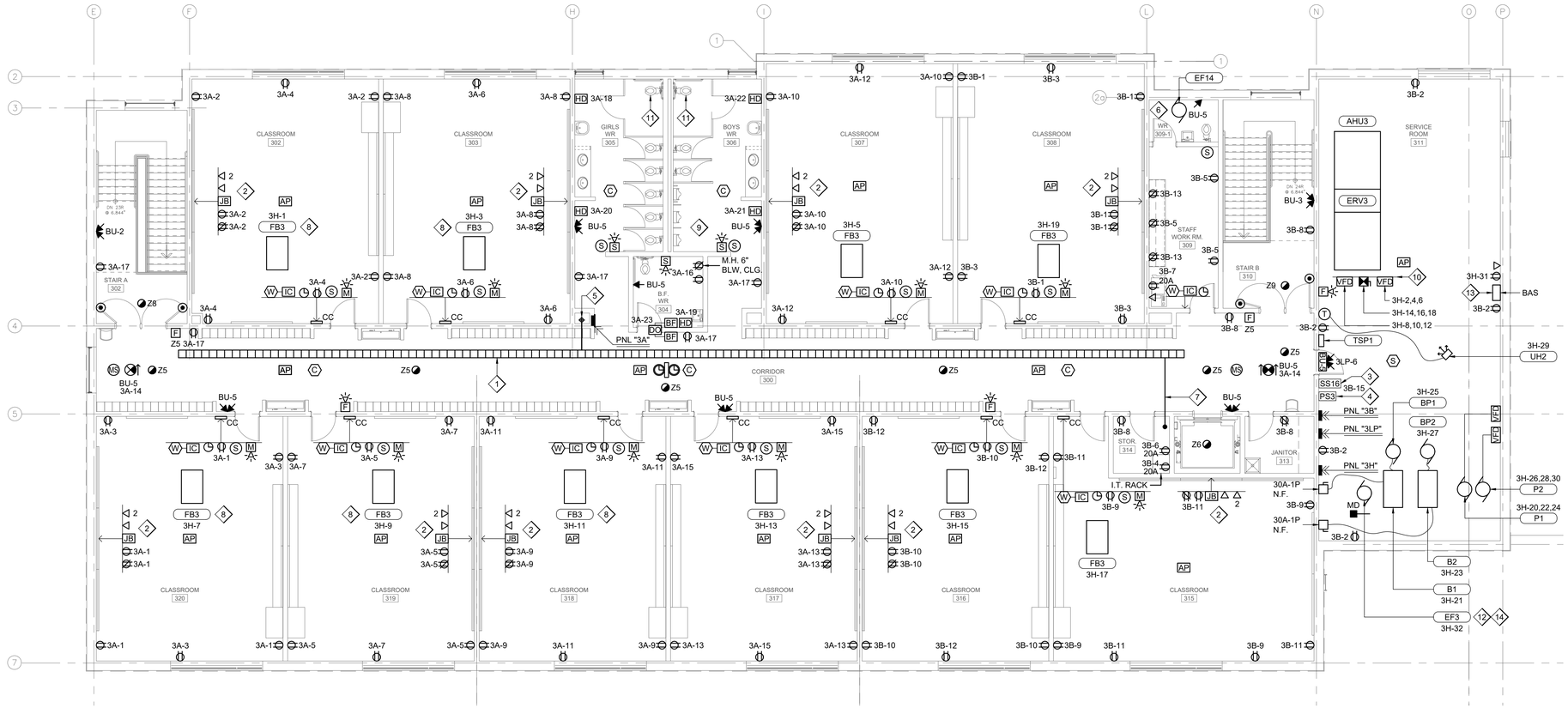
plotted by: pbiamonte on Feb 19, 2026 - 12:38pm




## DRAWING NOTES:

1. PROVIDE CABLE TRAY IN CEILING SPACE. COORDINATE LOCATION WITH ALL OTHER TRADES.
2. REFER TO PROJECTOR WALL ELEVATION DETAIL ON DRAWING E5-1.
3. MOUNT CLOCK SYSTEM POWER SUPPLY PS3 AT HIGH LEVEL IN ROOM.
4. PA SYSTEM TAPBOX SS16. MOUNT AT HIGH LEVEL IN ROOM.
5. 2 - 3" EMT CONDUITS c/w BUSHINGS ON EACH END FROM CABLE TRAY TO CABLE TRAY ON GROUND FLOOR BELOW.
6. WIRE EXHAUST FAN TO SAME CIRCUIT AND CONTROL AS LIGHT FIXTURES IN ROOM.
7. 2 - 3" EMT CONDUITS c/w BUSHINGS FROM CABLE TRAY TO I.T. RACK.
8. RUN 2 #10 WIRING TO FAN POWERED BOX.
9. WIRE URINAL FLUSH VALVE TIMER TO SAME CIRCUIT AND CONTROL AS LIGHT FIXTURE IN ROOM.
10. PROVIDE UNISTRUT CHANNELS TO MOUNT AIR HANDLERS VFD / MAGNETIC STARTERS.
11. PROVIDE 120V CIRCUIT FROM UNSWITCHED LIGHTING CIRCUIT IN ROOM TO TOILET FLUSH VALVE. PROVIDE JUNCTION BOX IN CEILING FOR LOW VOLTAGE CONNECTION.
12. EXHAUST FAN WIRED TO BAS THROUGH RIB RELAY.
13. COORDINATE LOCATION OF BAS RECEPTACLE AND DATA OUTLET ON SITE.
14. INTERLOCK EXHAUST FAN WITH MOTORIZED DAMPERS IN ROOM SUCH THAT WHEN FAN IS ENERGIZED DAMPERS OPEN.

## THIRD FLOOR PLAN - NEW POWER & SYSTEMS LAYOUT

SCALE: 1/8" = 1' - 0"

### PANEL "3A"

☒ FLUSH
☐ SURFACE
☒ SPRINKLER PROOF
☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 100A
LOCATION: CORRIDOR 300
FED FROM: SWITCHBOARD

| | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CLASSROOM 320 REC. | 1.0 | | | 15 | 1 | 2 | 15 | 1.0 | | | CLASSROOM 302 REC. |
| ✳✳ CLASSROOM 320 REC. | | 1.0 | | 15 | 3 | 4 | 15 | | 1.0 | | CLASSROOM 302 REC. |
| CLASSROOM 319 REC. | | | 1.0 | 15 | 5 | 6 | 15 | | | 1.0 | CLASSROOM 303 REC. |
| ✳✳ CLASSROOM 319 REC. | 1.0 | | | 15 | 7 | 8 | 15 | 1.0 | | | CLASSROOM 303 REC. |
| CLASSROOM 318 REC. | | 1.0 | | 15 | 9 | 10 | 15 | | 1.0 | | CLASSROOM 307 REC. |
| ✳✳ CLASSROOM 318 REC. | | | 1.0 | 15 | 11 | 12 | 15 | | | 1.0 | CLASSROOM 307 REC. |
| CLASSROOM 317 REC. | 1.0 | | | 15 | 13 | 14 | 15 | 1.0 | | | 3RD FLOOR EXIT SIGNS |
| ✳✳ CLASSROOM 317 REC. | | 1.0 | | 15 | 15 | 16 | 20 | | 1.0 | | CHANGE TABLE REC |
| SOUTH CORRIDOR REC. | | | 1.0 | 15 | 17 | 18 | 20 | | | 1.4 | HAND DRYER |
| HAND DRYER | 1.4 | | | 20 | 19 | 20 | 20 | 1.4 | | | HAND DRYER |
| HAND DRYER | | 1.4 | | 20 | 21 | 22 | 20 | | 1.4 | | HAND DRYER |
| DOOR OPERATOR | | | 0.3 | 15 | 23 | 24 | 15 | | | | SPARE |
| SPARE | | | | 15 | 25 | 26 | 15 | | | | SPARE |
| SPARE | | | | 15 | 27 | 28 | 15 | | | | SPARE |
| SPARE | | | | 15 | 29 | 30 | | | | | |
| | 4.4 | 4.4 | 3.3 | load | | | load | 4.4 | 4.4 | 3.4 | |
| | A | B | C | Total Connected : | 26.3kW | | | A | B | C | |

100A 3P

✳ PROVIDE LOCK - ON CLIP ON BREAKER.
✳✳ WIRE RECEPTACLE CIRCUIT TO RECEPTACLE CONTROLLER. CONTROL SUCH THAT WHEN LIGHTS IN ROOM ARE DE-ENERGIZED RECEPTACLE CIRCUIT IS SHUT OFF.

### PANEL "3B"

☐ FLUSH
☒ SURFACE
☒ SPRINKLER PROOF
☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 100A
LOCATION: SERVICE ROOM 311
FED FROM: SWITCHBOARD

| | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CLASSROOM 308 REC. | 1.0 | | | 15 | 1 | 2 | 15 | 1.0 | | | SERVICE ROOM REC |
| CLASSROOM 308 REC. | | 1.0 | | 15 | 3 | 4 | 20 | | 1.4 | | I.T. REC |
| STAFF WORK ROOM 209 | | | 1.0 | 15 | 5 | 6 | 20 | | | 1.4 | I.T. REC |
| STAFF WORK ROOM PRINTER | 1.0 | | | 20 | 7 | 8 | 15 | 1.0 | | | NORTH CORRIDOR REC |
| CLASSROOM 315 | | 1.0 | | 15 | 9 | 10 | 15 | | 1.0 | | CLASSROOM 316 REC. |
| CLASSROOM 315 | | | 1.0 | 15 | 11 | 12 | 15 | | | 1.0 | CLASSROOM 316 REC. |
| STAFF WORK ROOM 209 REC | 1.0 | | | 15 | 13 | 14 | 15 | | | | SPARE |
| CLOCK POWER SUPPLY | | 0.1 | | 15 | 15 | 16 | 15 | | | | SPARE |
| SPARE | | | | 15 | 17 | 18 | 15 | | | | SPARE |
| SPARE | | | | 15 | 19 | 20 | | | | | |
| SPARE | | | | 15 | 21 | 22 | | | | | |
| | | | | | 23 | 24 | | | | | |
| | 3.0 | 2.1 | 2.0 | load | | | load | 2.0 | 2.4 | 2.4 | |
| | A | B | C | Total Connected : | 12.8kW | | | A | B | C | |

100A 3P

✳✳ ✳✳ ✳✳ ✳✳ ✳✳ ✳

✳✳ WIRE RECEPTACLE CIRCUIT TO RECEPTACLE CONTROLLER. CONTROL SUCH THAT WHEN LIGHTS IN ROOM ARE DE-ENERGIZED RECEPTACLE CIRCUIT IS SHUT OFF.

### PANEL "3H"

☐ FLUSH
☒ SURFACE
☒ SPRINKLER PROOF
☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 200A
LOCATION: SERVICE ROOM 311
FED FROM: SWITCHBOARD

| | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FB CLASSROOM 302 | 0.9 | | | 15 | 1 | 2 | 40 | 2.8 | | | |
| FB CLASSROOM 303 | | 0.9 | | 15 | 3 | 4 | | | 2.8 | | AHU3 SUPPLY FAN VFD |
| FB CLASSROOM 307 | | | 0.9 | 15 | 5 | 6 | 3P | | | 2.8 | 3 #8 Cu + GRD - 1" EMT |
| FB CLASSROOM 320 | 0.9 | | | 15 | 7 | 8 | 30 | 1.8 | | | |
| FB CLASSROOM 319 | | 0.9 | | 15 | 9 | 10 | | | 1.8 | | AHU3 RETURN FAN VFD |
| FB CLASSROOM 318 | | | 0.9 | 15 | 11 | 12 | 3P | | | 1.8 | 3 #10 Cu + GRD - 3/4" EMT |
| FB CLASSROOM 317 | 0.9 | | | 15 | 13 | 14 | 15 | 0.1 | | | |
| FB CLASSROOM 316 | | 0.9 | | 15 | 15 | 16 | | | 0.1 | | ERV3 |
| FB CLASSROOM 315 | | | 0.9 | 15 | 17 | 18 | 3P | | | 0.1 | |
| FB CLASSROOM 308 | 0.9 | | | 15 | 19 | 20 | 30 | 2.0 | | | |
| BOILER B1 | | 0.9 | | 15 | 21 | 22 | | | 2.0 | | PUMP P1 |
| BOILER B2 | | | 0.9 | 15 | 23 | 24 | 3P | | | 2.0 | 3 #10 Cu + GRD - 3/4" EMT |
| BOILER PUMP BP1 | 0.7 | | | 15 | 25 | 26 | 30 | 2.0 | | | |
| BOILER PUMP BP2 | | 0.7 | | 15 | 27 | 28 | | | 2.0 | | PUMP P2 |
| UNIT HEATER UH2 | | | 0.3 | 15 | 29 | 30 | 3P | | | 2.0 | 3 #10 Cu + GRD - 3/4" EMT |
| BAS PANEL | 0.1 | | | 15 | 31 | 32 | 15 | | | | EXHAUST FAN EF3 |
| SPARE | | | | 15 | 33 | 34 | 15 | | | | SPARE |
| SPARE | | | | 15 | 35 | 36 | 15 | | | | SPARE |
| SPARE | | | | 15 | 37 | 38 | 15 | | | | SPARE |
| | | | | | 39 | 40 | | | | | |
| | | | | | 41 | 42 | | | | | |
| | 4.4 | 4.3 | 3.9 | load | | | load | 9.0 | 9.0 | 9.0 | |
| | A | B | C | Total Connected : | 38.6kW | | | A | B | C | |

200A 3P

### PANEL "3LP"

☐ FLUSH
☒ SURFACE
☒ SPRINKLER PROOF
☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 30A
LOCATION: SERVICE ROOM 311
FED FROM: SWITCHBOARD

| | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CLASSROOM 319 & 320 LIGHTS | 0.5 | | | 15 | 1 | 2 | 15 | 0.5 | | | CLASSROOM 302 & 303 LIGHTS |
| CLASSROOM 317 & 318 LIGHTS | | 0.5 | | 15 | 3 | 4 | 15 | | 0.6 | | WR & CLASSROOM 307 & 308 LTS |
| CLASSROOM 315 & 316 | | | 1.0 | 15 | 5 | 6 | 15 | | | 0.5 | STAFF & SERV. RM. 311 & CORR. |
| SPARE | | | | 15 | 7 | 8 | 15 | | | | SPARE |
| SPARE | | | | 15 | 9 | 10 | 15 | | | | SPARE |
| SPARE | | | | 15 | 11 | 12 | 15 | | | | SPARE |
| | | | | | 13 | 14 | | | | | |
| | | | | | 15 | 16 | | | | | |
| | | | | | 17 | 18 | | | | | |
| | 0.5 | 0.5 | 1.0 | load | | | load | 0.5 | 0.6 | 0.5 | |
| | A | B | C | Total Connected : | 3.6kW | | | A | B | C | |

30A 3P

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| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | CR |
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LICENSED PROFESSIONAL ENGINEER
20 Feb 2026
A. J. MEYER
100211449
PROVINCE OF ONTARIO

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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

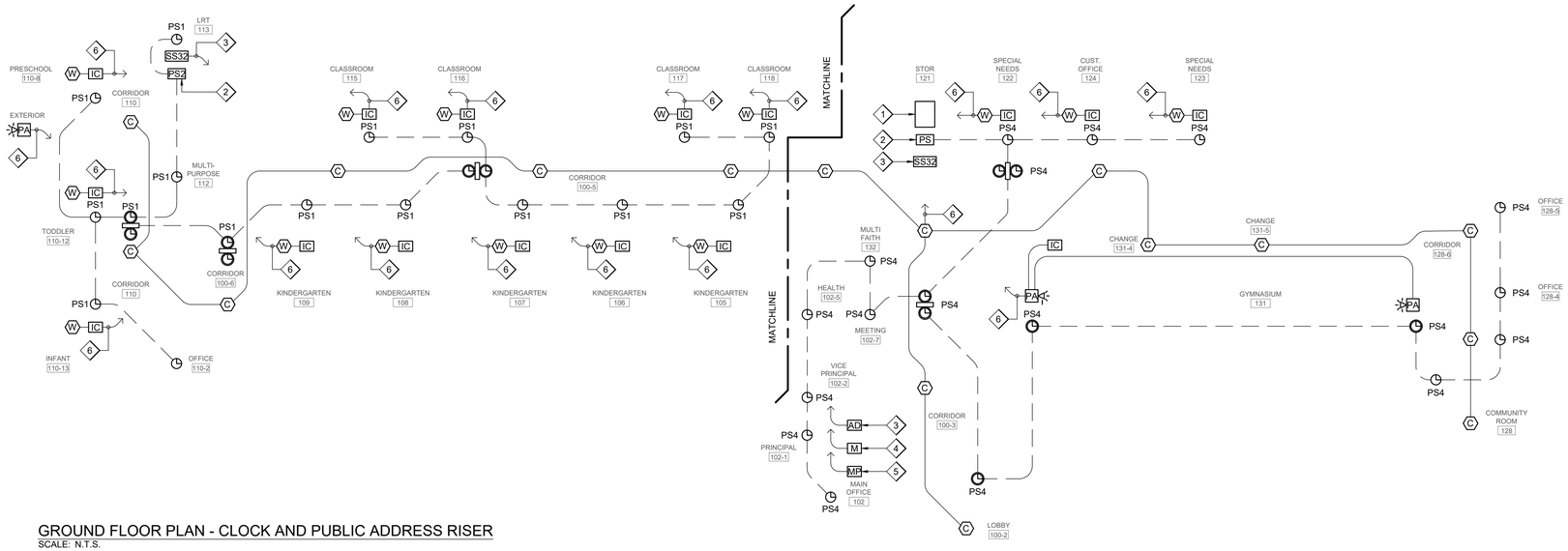
THIRD FLOOR PLAN NEW POWER & SYSTEMS LAYOUT

| drawn by | designed by |
|---|---|
| PB | CR |
| scale | date |
| AS NOTED | 15 JUL 2025 |
| job number | issue |
| 25021 | 2 |

drawing number

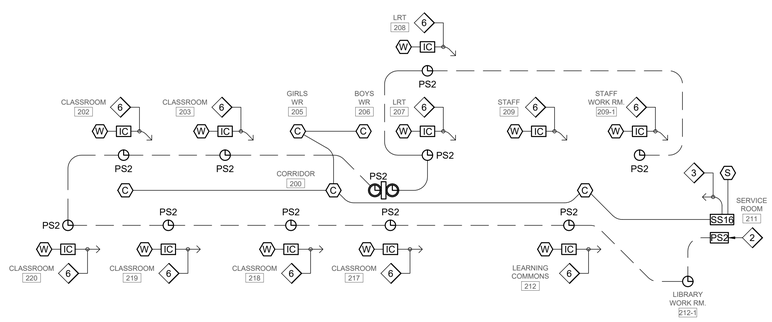
E3-4

P:\2025 Projects\25021 DSBN Two New Schools RFP\Drawings\Electrical\25021 Elec.dwg, drawing tab: E3-4
plotted by: pbiamonte on Feb 19, 2026 - 12:38pm



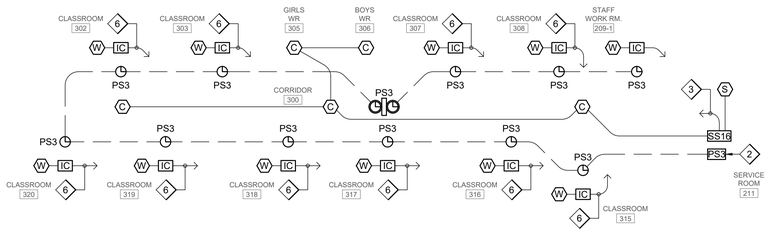

## GROUND FLOOR PLAN - CLOCK AND PUBLIC ADDRESS RISER

SCALE: N.T.S.




## SECOND FLOOR PLAN - CLOCK AND PUBLIC ADDRESS RISER

SCALE: N.T.S.




## THIRD FLOOR PLAN - CLOCK AND PUBLIC ADDRESS RISER

SCALE: N.T.S.

## LINE LEGEND

3C #18 FOR CONTROLS, RUN 2#14 FROM CLOCK TO POWER SUPPLY.

CAT 5e CABLE

## GENERAL NOTES:

1. REFER TO SYMBOL LEGEND ON DRAWING E2-3.
2. EXPOSED WIRING NOT IN CONDUIT OR IN CABLE TRAY SHALL BE KEPT TO A MINIMUM. MAXIMUM EXPOSED WIRING LENGTH SHALL NOT EXCEED 2 METERS.
3. ALL WIRING NOT IN CABLE TRAY SHALL BE INSTALLED IN 19mm EMT CONDUIT.
4. WIRING FOR CLOCK AND PA SYSTEM SHALL BE RUN INDEPENDENTLY IN THEIR OWN NETWORK OF SYSTEMS CONDUIT.

## DRAWING NOTES:

1. PUBLIC ADDRESS SYSTEM CAREHAWK CH1000LT EQUIPMENT.
2. 24VAC CLOCK SYSTEM POWER SUPPLY. ALTRONIX CAT# ALT600ULX. RUN 3C #18 TO CAREHAWK CH1000LT PANEL IN STOR 121.
3. CAT 5e TO CH1000LT EQUIPMENT.
4. 2 PAIR SHIELDED TO CH1000LT EQUIPMENT.
5. 1 PAIR SHIELDED TO CH1000LT EQUIPMENT.
6. RUN CAT 5e TO SS32 TAP BOX.

## PANEL "2H"

☐ FLUSH
☒ SURFACE
☒ SPRINKLER PROOF
☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 250A
LOCATION: SERVICE ROOM 211
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | A B C | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3.4 | | | 50 | 1 | | 2 | 40 | 2.8 | | | |
| AHU1 SUPPLY FAN VFD | | 3.4 | | | 3 | | 4 | | | 2.8 | | AHU4 SUPPLY FAN VFD |
| 3 #8 Cu + GRD - 1" EMT | | | 3.4 | 3P | 5 | | 6 | 3P | | | 2.8 | 3 #8 Cu + GRD - 1" EMT |
| | 2.8 | | | 40 | 7 | | 8 | 20 | 1.2 | | | |
| AHU1 RETURN FAN VFD | | 2.8 | | | 9 | | 10 | | | 1.2 | | AHU4 RETURN FAN VFD |
| 3 #8 Cu + GRD - 1" EMT | | | 2.8 | 3P | 11 | | 12 | 3P | | | 1.2 | |
| | 0.4 | | | 15 | 13 | | 14 | 15 | 0.9 | | | FPB CLASSROOM 202 |
| ERV1 | | 0.4 | | | 15 | | 16 | 15 | | 0.9 | | FPB CLASSROOM 203 |
| | | | 0.4 | 3P | 17 | | 18 | 15 | | | 0.9 | FPB CLASSROOM 217 |
| | 2.8 | | | 40 | 19 | | 20 | 15 | 0.9 | | | FPB LEARNING COMMONS 212 |
| AHU2 SUPPLY FAN VFD | | 2.8 | | | 21 | | 22 | 15 | | 0.9 | | FPB LEARNING COMMONS 212 |
| 3 #8 Cu + GRD - 1" EMT | | | 2.8 | 3P | 23 | | 24 | 20 | | | 1.4 | CHILLER HEAT TRACE |
| | 1.8 | | | 30 | 25 | | 26 | 15 | 0.7 | | | GLYCOL PUMP GP1 |
| AHU2 RETURN FAN VFD | | 1.8 | | | 27 | | 28 | 15 | | 0.3 | | UNIT HEATER UH1 |
| 3 #10 Cu + GRD - 3/4" EMT | | | 1.8 | 3P | 29 | | 30 | 15 | | | 1.0 | BAS RECEPTACLE |
| | 0.4 | | | 15 | 31 | | 32 | 30 | 2.0 | | | |
| ERV2 | | 0.4 | | | 33 | | 34 | | | 2.0 | | PUMP P3 |
| | | | 0.4 | 3P | 35 | | 36 | 3P | | | 2.0 | 3 #10 Cu + GRD - 3/4" EMT |
| FPB CLASSROOM 220 | 0.9 | | | 15 | 37 | | 38 | 15 | 0.2 | | | PUMP P5 |
| FPB CLASSROOM 219 | | 0.9 | | 15 | 39 | | 40 | 15 | | 0.7 | | EXHAUST FAN EF1 |
| FPB CLASSROOM 218 | | | 0.9 | 15 | 41 | | 42 | 15 | | | 0.7 | EXHAUST FAN EF2 |
| SPARE | | | | 15 | 43 | | 44 | 15 | | | | SPARE |
| SPARE | | | | 15 | 45 | | 46 | 15 | | | | SPARE |
| SPARE | | | | 15 | 47 | | 48 | 15 | | | | SPARE |
| | | | | | 49 | | 50 | | | | | |
| | | | | | 51 | | 52 | | | | | |
| | | | | | 53 | | 54 | | | | | |
| | | | | | 55 | | 56 | | | | | |
| | | | | | 57 | | 58 | | | | | |
| | | | | | 59 | | 60 | | | | | |
| | 13 | 13 | 13 | load | | 250A 3P | | load | 8.7 | 9.1 | 10 | |
| | A | B | C | Total Connected : | | 66.7kW | | | A | B | C | |

INCLUDE FOR 14kAIC RATED CIRCUIT BREAKERS. CONFIRM INTERRUPTING KA RATING WITH SHORT CIRCUIT STUDY.

| issue | issued for | date | inst. |
|---|---|---|---|
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| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | CR |
| 0 | BUILDING PERMIT | 14NOV2025 | CR |

seal

LICENSED PROFESSIONAL ENGINEER
20 Feb 2026
A. J. MEYER
100211449
PROVINCE OF ONTARIO

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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

CLOCK AND PUBLIC ADDRESS RISER

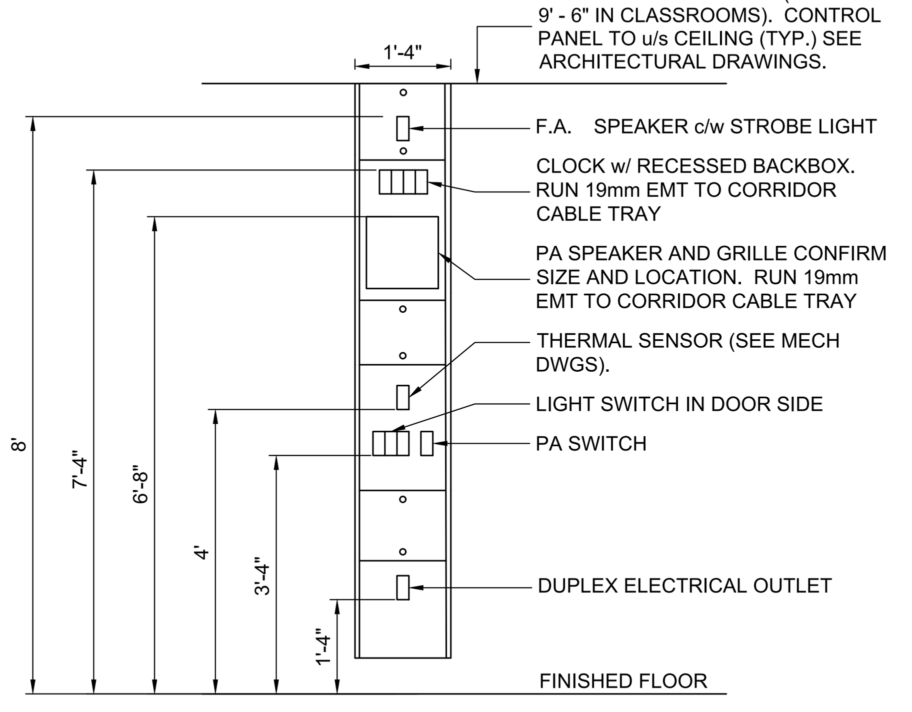
| drawn by | designed by |
|---|---|
| PB | CR |
| scale | date |
| AS NOTED | 15 JUL 2025 |
| job number | issue |
| 25021 | 2 |

drawing number

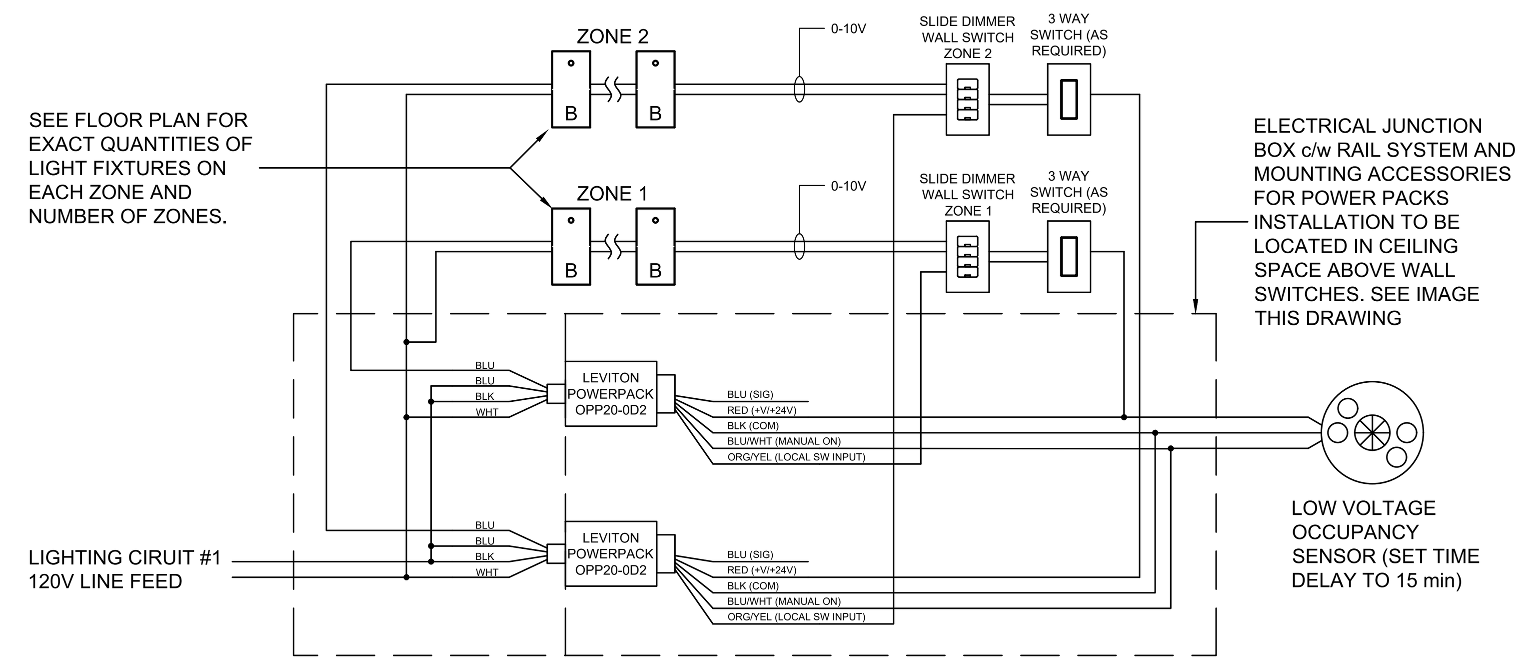
E4-1

24"x36" Tesseract
P:\2025 Projects\25021 DSBN Two New Schools RFP\Drawings\Electrical\25021 Elec-dwg drawing lab E4.1
plotted by: pbiamonte on Feb 19, 2026 - 12:38pm

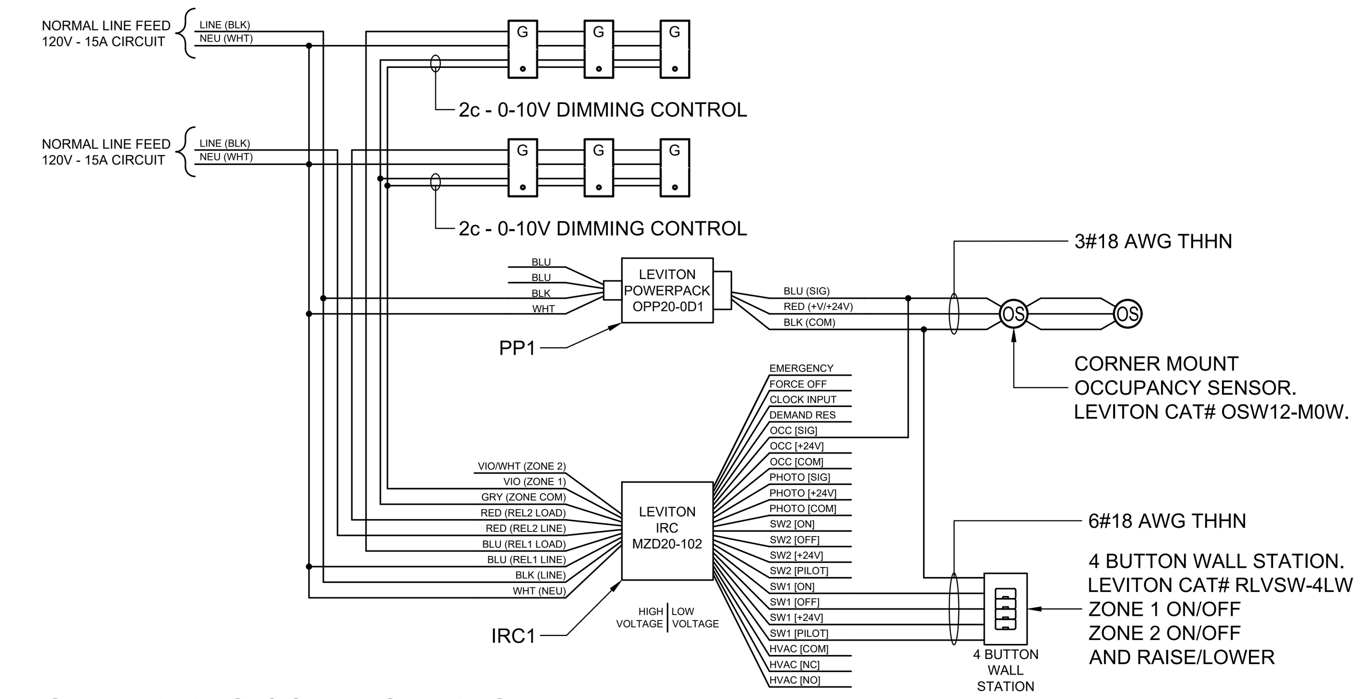
24"x36" Imperial




## CLASSROOM CONTROL CONSOLE DETAIL
SCALE: N. T. S.

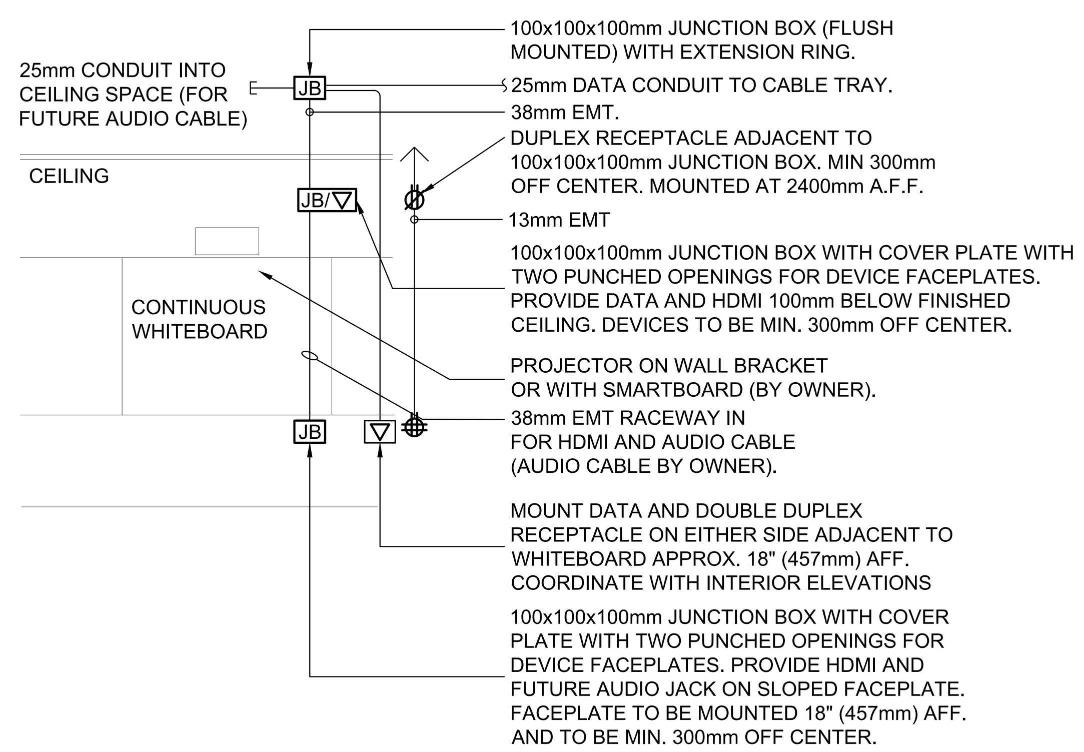



## CLASSROOM LIGHTING CONTROL WIRING DIAGRAM
SCALE: N. T. S.



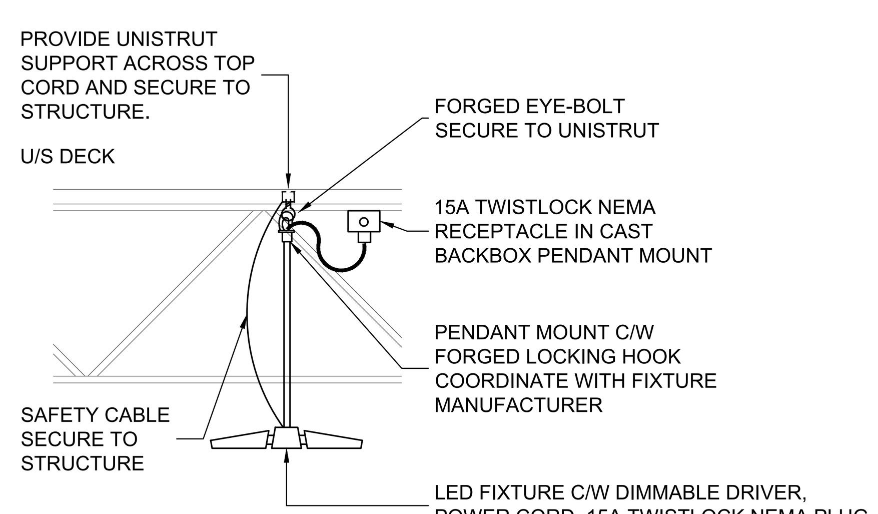

## GYM WIRING CONTROL DIAGRAM
SCALE: N. T. S.

1. WIRE / PROGRAM SYSTEM IN OCCUPANCY MODE (AUTOMATIC ON, AUTOMATIC OFF)




## PROJECTOR WALL ELEVATION
SCALE: N. T. S.

## CLASSROOM LIGHTING JUNCTION BOX DETAIL
SCALE: N. T. S.

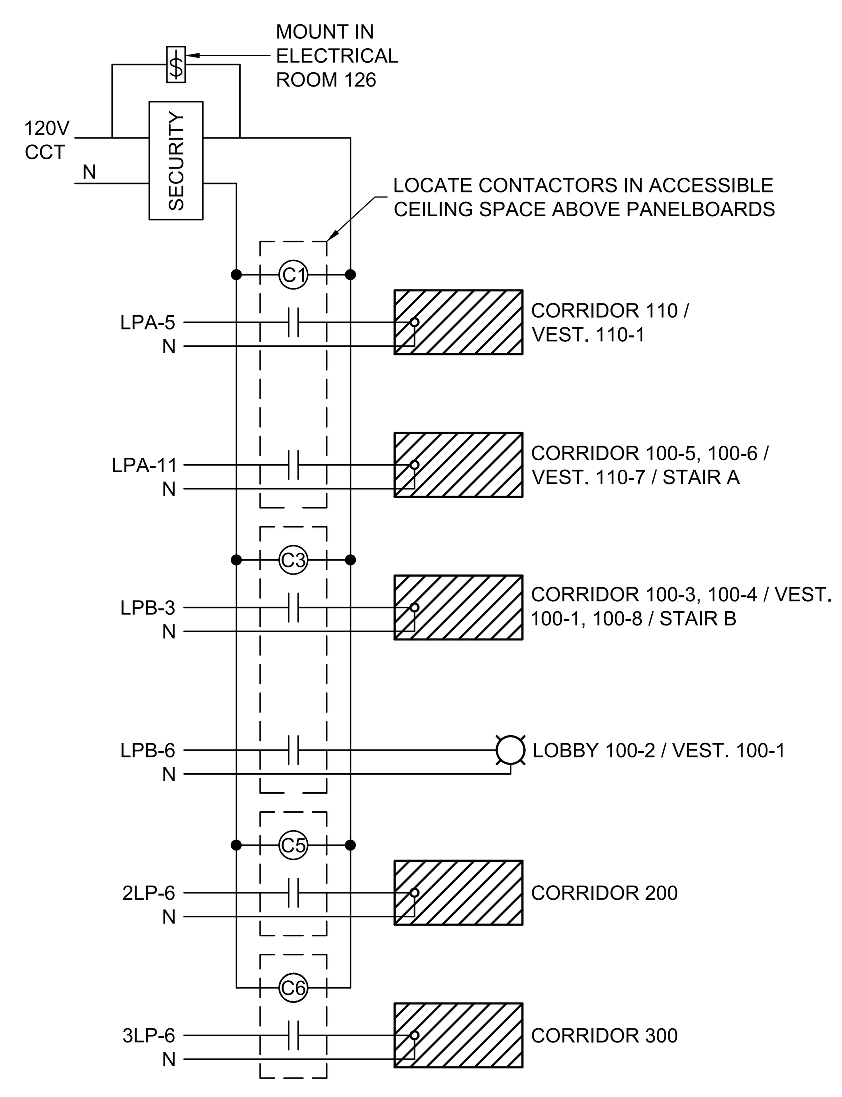



## GYMNASIUM LIGHT FIXTURE MOUNTING DETAIL
SCALE: N. T. S.

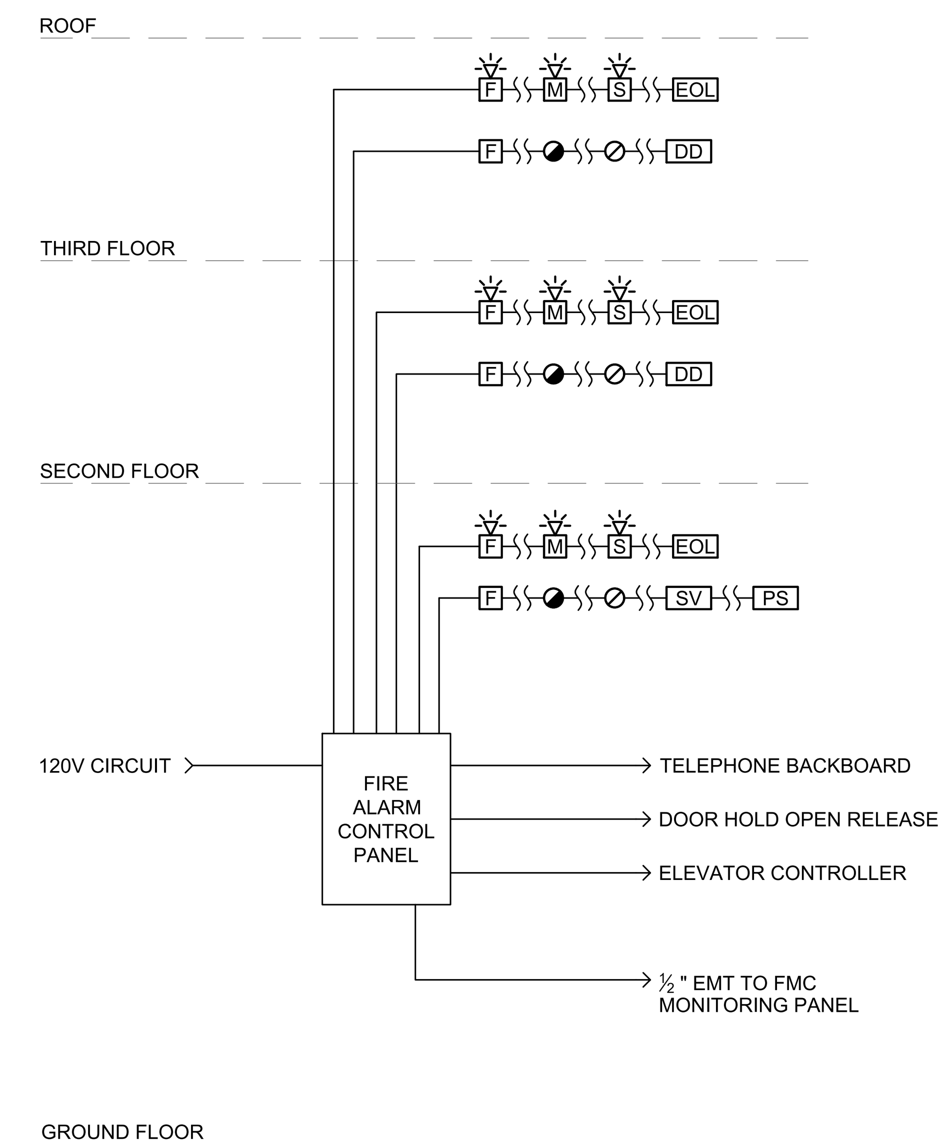
## EXIT & EMERGENCY LIGHTING VOLTAGE DROP CHART

LENGTH OF WIRE RUN (in feet)

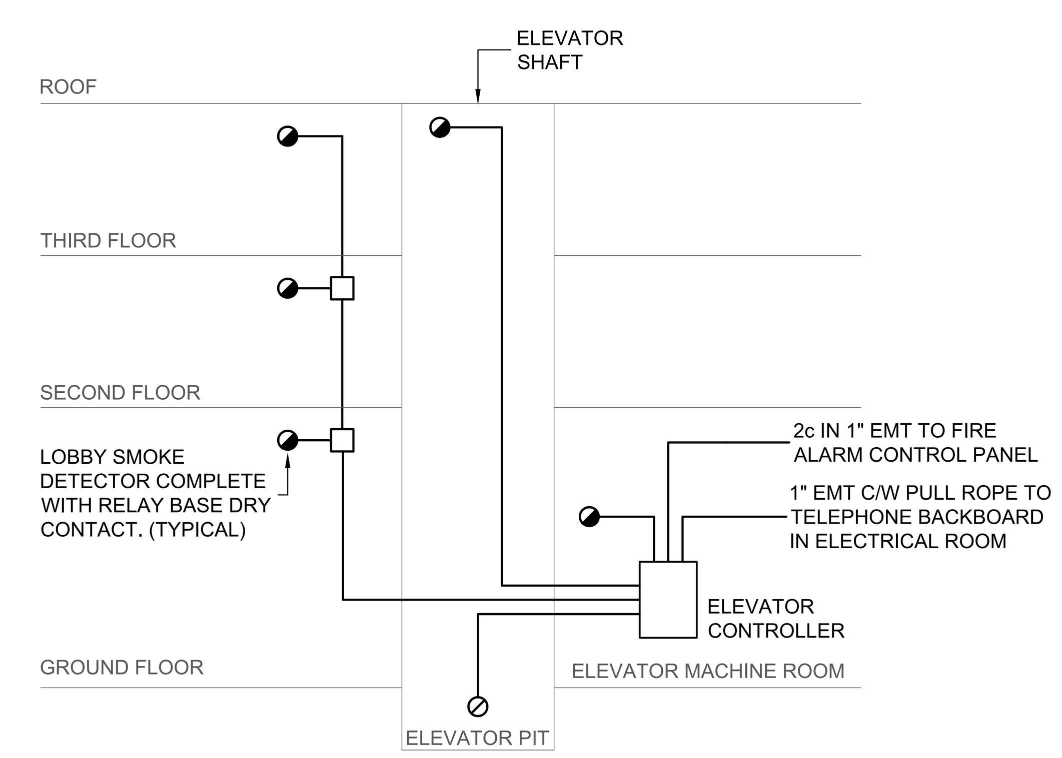
| | WIRE SIZE | WATTS | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 13 | 18 | 25 | 30 | 35 | 50 | 60 | 75 | 100 | 150 | 200 | 250 | 300 | 400 |
| 24 VOLT | 12 | 660 | 440 | 340 | 284 | 244 | 168 | 140 | 116 | 84 | 56 | 40 | 32 | 26 | 21 |
| | 10 | 1040 | 760 | 544 | 448 | 388 | 272 | 208 | 180 | 136 | 92 | 68 | 52 | 44 | 34 |
| | 8 | 1668 | 1200 | 860 | 720 | 616 | 432 | 360 | 288 | 216 | 144 | 108 | 84 | 72 | 54 |
| | 6 | 2640 | 1900 | 1360 | 1140 | 980 | 680 | 560 | 456 | 344 | 228 | 172 | 136 | 112 | 85 |
| | 4 | 4200 | 3040 | 2160 | 1810 | 1560 | 1100 | 900 | 728 | 548 | 364 | 272 | 220 | 180 | 100 |




## CORRIDOR WIRING DIAGRAM
SCALE: N. T. S.




## FIRE ALARM RISER DIAGRAM
SCALE: N. T. S.




## ELEVATOR CONTROL RISER
SCALE: N. T. S.

## FIRE ALARM ZONE SCHEDULE

| ALARM ZONE | DESCRIPTION |
|---|---|
| Z1 | DAYCARE |
| Z2 | SOUTH WING |
| Z3 | NORTH WING & GYM & COMMUNITY ROOM |
| Z4 | SECOND FLOOR |
| Z5 | THIRD FLOOR |
| Z6 | ELEVATOR SHAFT |
| Z7 | OUTDOOR STORAGE |
| Z8 | SOUTH STAIRWELL |
| Z9 | NORTH STAIRWELL |
| Z10 | GROUND FLOOR FLOW SWITCH |
| Z11 | SECOND FLOOR SPRINKLER FLOW SWITCH |
| Z12 | THIRD FLOOR SPRINKLER FLOW SWITCH |
| | |
| TROUBLE ZONES | |
| T1 | SPRINKLER LOW PRESSURE ALARM |
| T2 | GROUND FLOOR SUPERVISORY VALVE |
| T3 | SECOND FLOOR SUPERVISORY VALVE |
| T4 | THIRD FLOOR SUPERVISORY VALVE |
| T5 | BACKFLOW SUPERVISORY VALVE 1 |
| T6 | BACKFLOW SUPERVISORY VALVE 2 |

## FIRE ALARM NOTES:

1. REFER TO FLOOR PLANS FOR EXACT LOCATION AND TOTAL NUMBER OF FIRE ALARM DEVICES.
2. PROVIDE FIRE ALARM ISOLATION MODULE FOR ALL SEPARATE ZONES.
3. FIRE ALARM SYSTEM TO BE ADDRESSABLE SINGLE STAGE COMPLETE WITH A MULTI RELAY ANNUNCIATOR PANEL OR EQUAL.
4. DRAWINGS MAY NOT SHOW ALL DEVICES REQUIRED FOR A COMPLETE FIRE ALARM SYSTEM E.G. ISOLATION MODULES, RELAYS, ETC. CONTRACTOR SHALL COORDINATE DEVICE / WIRING INSTALLATION WITH FIRE ALARM MANUFACTURER TO PROVIDE A FULLY FUNCTIONING FIRE ALARM SYSTEM.
5. FIRE ALARM SYSTEM TO BE INSTALLED IN ACCORDANCE WITH CAN/ULC STANDARD S524-14 OR LATEST ADDITION AND VERIFIED IN ACCORDANCE WITH CAN/ULC STANDARD S537-13 OR LATEST ADDITION.
6. PROVIDE A CERTIFICATE OF VERIFICATION AND TECHNICIANS REPORT AT COMPLETION OF THE PROJECT TO THE LOCAL AUTHORITIES.
7. ENSURE PROPER OPERATION OF ALL ANCILLARY EQUIPMENT INCLUDING BUT NOT LIMITED TO FAN SHUT DOWN, ELEVATOR RECALL, ETC., WHERE REQUIRED
8. UNLESS NOTED OTHERWISE, WIRE ALL INITIATING DEVICES IN CLASS A CONFIGURATION AND WIRE ALL SIGNALING DEVICES TO CLASS B CONFIGURATION. ALL WIRING TO MEET MANUFACTURERS REQUIREMENTS.
9. ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 19mmØ.
10. WIRE GUARDS IN GYMNASIUM TO BE HEAVY DUTY TYPE.
11. SIGNAL HORN CIRCUITS TO ALTERNATE FROM ONE HORN TO THE NEXT. SIGNAL WIRING FOR DIFFERENT FLOORS TO BE INSTALLED IN SEPARATE CONDUITS.
12. FIRE ALARM PANEL TO BE COMPLETE WITH MINIMUM 6 SPARE ZONES.

| issue | issued for | date | init. |
|---|---|---|---|
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project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

ELECTRICAL DETAILS AND RISERS

| drawn by | designed by |
|---|---|
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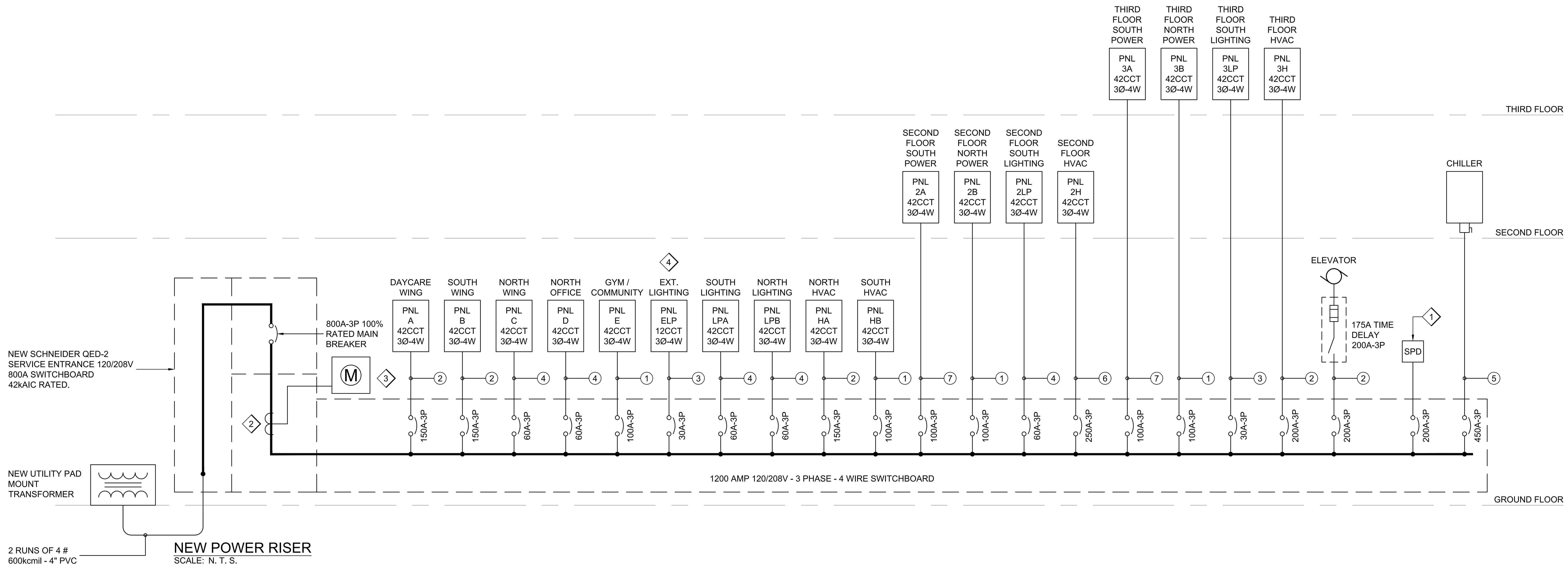
| **scale** | **date** |
| AS NOTED | 15 JUL 2025 |
| **job number** | **issue** |
| 25021 | 2 |

drawing number

E5-1

P:\2025 Projects\25021 DSBN Two New Schools RFP\Drawings\Electrical\25021 Elec.dwg drawing tab: E5-1
plotted by: pbiamonte on Feb 19, 2026 - 12:38pm




## NEW POWER RISER

SCALE: N. T. S.

## CONDUIT AND WIRE SIZING

1. (100A) 4 #3 Cu + GRD - 1 1/4" EMT
2. (200A) 4 #3/0 Cu + GRD - 2" EMT
3. (30A) 4 #10 Cu + GRD - 3/4" EMT
4. (60A) 4 #6 Cu + GRD - 1" EMT
5. 2x 3 #4/0 Cu + GRD - 2 1/2" EMT
6. (250A) 4 #250kcmil Cu + GRD - 3" EMT
7. (125A) 4 #1 Cu + GRD - 1 1/2" EMT.

## DRAWING NOTES:

1. SUPPLY AND INSTALL AN INNOSYS SURGE PROTECTION DEVICE CAT# TK-ST160-3Y208-LB OR EQUAL. MOUNT SURGE PROTECTION DEVICE AS CLOSE AS POSSIBLE TO BREAKER IN SWITCHBOARD (KEEP WIRING AS SHORT AS POSSIBLE). CONTRACTOR TO INCLUDE FOR A PRE AND POST INSTALL INSPECTION FROM SURGE PROTECTOR MANUFACTURER TO ENSURE SURGE PROTECTORS AND WIRING ARE INSTALLED AS PER MANUFACTURER RECOMMENDATIONS.
2. SUPPLY AND INSTALL CT'S IN SWITCHBOARD TO MEET WELLAND HYDRO REQUIREMENTS.
3. SUPPLY AND INSTALL A 13 JAW METER BASE FOR UTILITY METER. RUN 32mm EMT FROM CT COMPARTMENT TO METER BASE COMPLETE WITH PULL ROPE.
4. PROVIDE PHOTOCELL AND BAS RELAY FOR EXTERIOR LIGHTING PANEL c/w 30A-3P CONTACTOR AND MANUAL TOGGLE SWITCH BYPASS. MOUNT CONTACTOR AND SWITCH IN ELECTRICAL ROOM.

## PANEL "A"

☐ FLUSH ☒ SURFACE ☒ SPRINKLER PROOF ☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 225A
LOCATION: JANITOR 111
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRESCHOOL RECEPTACLES | 1.0 | | | 15 | 1 | 2 | 15 | 1.0 | | | STAFF FRIDGE |
| TODDLER RECEPTACLES | | 1.0 | | 15 | 3 | 4 | 15 | | 1.0 | | STAFF MICROWAVE |
| INFANT RECEPTACLES | | | 1.0 | 15 | 5 | 6 | 15 | | | 1.0 | STAFF RECEPTACLES |
| INFANT FRIDGE | 1.0 | | | 15 | 7 | 8 | 15 | 1.0 | | | KITCHEN FRIDGE |
| INFANT MICROWAVE | | 1.0 | | 15 | 9 | 10 | 15 | | 1.0 | | KITCHEN FRIDGE |
| INFANT COUNTERTOP REC | | | 1.0 | 15 | 11 | 12 | 15 | | | 1.0 | KITCHEN COUNTERTOP REC |
| MULTIPURPOSE REC | 1.0 | | | 15 | 13 | 14 | 15 | 1.0 | | | KITCHEN COUNTERTOP REC |
| JANITOR REC | | 1.0 | | 15 | 15 | 16 | 15 | | 1.0 | | KITCHEN DISHWASHER |
| JANITOR WASHING MACHINE | | | 1.0 | 15 | 17 | 18 | 15 | | | 1.0 | KITCHEN RECEPTACLE |
| JANITOR LAUNDRY DRYER | 2.5 | | | 30 | 19 | 20 | 40 | 3.0 | | | KITCHEN OVEN |
| 3 #10 CU + GRD | | 2.5 | | 2P | 21 | 22 | 2P | | 3.0 | | 3 # 8 CU + GRD - 1" EMT |
| LAUNDRY / CUSTODIAL REC | | | 1.0 | 15 | 23 | 24 | 15 | | | 1.0 | LRT RECEPTACLE |
| LAUNDRY / CUSTODIAL WASHER | 1.0 | | | 15 | 25 | 26 | 15 | 1.0 | | | CORRIDOR 100-6 REC |
| LAUNDRY / CUSTODIAL DRYER | | 2.5 | | 30 | 27 | 28 | 15 | | 1.0 | | VEST. DOOR OPERATOR |
| 3 #8 CU + GRD | | | 2.5 | 2P | 29 | 30 | 15 | | | 1.0 | VEST. 100-7 DOOR OPERATOR |
| CORRIDOR 110 REC | 1.0 | | | 15 | 31 | 32 | 15 | 1.0 | | | STAIR A 114 RECEPTACLES |
| DAYCARE OFFICE | | 1.0 | | 15 | 33 | 34 | 15 | | 0.1 | | BAS |
| DAYCARE OFFICE | | | 1.0 | 15 | 35 | 36 | 15 | | | 0.1 | EXIT SIGNS ✳ |
| KEYSCAN PANEL | 0.1 | | | 15 | 37 | 38 | 20 | 1.0 | | | DAYCARE IT. HUB |
| SPARE | | | | 15 | 39 | 40 | 20 | | | | STAFF COUNTERTOP REC |
| SPARE | | | | 15 | 41 | 42 | 15 | | | 1.0 | KITCHEN MICROWAVE |
| SPARE | | | | 15 | 43 | 44 | 15 | | | | SPARE |
| | | | | | 45 | 46 | 15 | | | | SPARE |
| | | | | | 47 | 48 | 15 | | | | SPARE |
| | | | | | 49 | 50 | | | | | |
| | | | | | 51 | 52 | | | | | |
| | | | | | 53 | 54 | | | | | |
| | | | | | 55 | 56 | | | | | |
| | | | | | 57 | 58 | | | | | |
| | | | | | 59 | 60 | | | | | |
| | 7.6 | 9.0 | 7.5 | load | 200A 3P | | load | 9.0 | 7.1 | 6.1 | |
| | A | B | C | Total Connected : | 46.3kW | | | A | B | C | |

✳ PROVIDE LOCK - ON CLIP ON BREAKER.

## PANEL "B"

☒ FLUSH ☐ SURFACE ☒ SPRINKLER PROOF ☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 100A
LOCATION: I.T. 118
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ✳✳ KINDERGARTEN 109 REC | 1.0 | | | 15 | 1 | 2 | 15 | 1.0 | | | CLASSROOM 115 REC |
| KINDERGARTEN 109 REC | | 1.0 | | 15 | 3 | 4 | 15 | | 1.0 | | CLASSROOM 115 REC ✳✳ |
| ✳✳ KINDERGARTEN 108 REC | | | 1.0 | 15 | 5 | 6 | 15 | | | 1.0 | CLASSROOM 116 REC |
| KINDERGARTEN 108 REC | 1.0 | | | 15 | 7 | 8 | 15 | 1.0 | | | CLASSROOM 116 REC ✳✳ |
| ✳✳ KINDERGARTEN 107 REC | | 1.0 | | 15 | 9 | 10 | 15 | | 1.0 | | CLASSROOM 117 REC |
| KINDERGARTEN 107 REC | | | 1.0 | 15 | 11 | 12 | 15 | | | 1.0 | CLASSROOM 117 REC ✳✳ |
| ✳✳ KINDERGARTEN 106 REC | 1.0 | | | 15 | 13 | 14 | 15 | 1.0 | | | CLASSROOM 118 REC |
| KINDERGARTEN 106 REC | | 1.0 | | 15 | 15 | 16 | 15 | | 1.0 | | CLASSROOM 118 REC ✳✳ |
| KINDERGARTEN 105 REC | | | 1.0 | 15 | 17 | 18 | 20 | | | 1.4 | HAND DRYER |
| KINDERGARTEN 105 REC | 1.0 | | | 15 | 19 | 20 | 20 | 1.4 | | | HAND DRYER |
| CORRIDOR 100-6 REC | | 1.0 | | 15 | 21 | 22 | 20 | | 1.4 | | HAND DRYER |
| ✳ EXIT SIGNS | | | 1.0 | 15 | 23 | 24 | 20 | | | 1.4 | HAND DRYER |
| BAS | 0.1 | | | 15 | 25 | 26 | 15 | | | | SPARE |
| CLOCK POWER SUPPLY | | 0.1 | | 15 | 27 | 28 | 15 | | | | SPARE |
| SPARE | | | | 15 | 29 | 30 | 15 | | | | SPARE |
| SPARE | | | | 15 | 31 | 32 | | | | | |
| SPARE | | | | 15 | 33 | 34 | | | | | |
| | | | | | 35 | 36 | | | | | |
| | | | | | 37 | 38 | | | | | |
| | | | | | 39 | 40 | | | | | |
| | | | | | 41 | 42 | | | | | |
| | 4.1 | 4.1 | 4.0 | load | 100A 3P | | load | 4.4 | 4.4 | 4.8 | |
| | A | B | C | Total Connected : | 25.8kW | | | A | B | C | |

✳ PROVIDE LOCK - ON CLIP ON BREAKER.

✳✳ WIRE RECEPTACLE CIRCUIT TO RECEPTACLE CONTROLLER. CONTROL SUCH THAT WHEN LIGHTS IN ROOM ARE DE-ENERGIZED RECEPTACLE CIRCUIT IS SHUT OFF.

## PANEL "C"

☒ FLUSH ☐ SURFACE ☒ SPRINKLER PROOF ☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 60A
LOCATION: CUST. OFFICE 125
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CORRIDOR 100-4 REC | 1.0 | | | 15 | 1 | 2 | 20 | 1.4 | | | HAND DRYER |
| STORAGE 121 REC | | 1.0 | | 15 | 3 | 4 | 20 | | 1.4 | | HAND DRYER |
| ✳✳ SPECIAL NEEDS 122 REC | | | 1.0 | 15 | 5 | 6 | 15 | | | 1.0 | SENSORY REC |
| SPECIAL NEEDS 122 REC | 1.0 | | | 15 | 7 | 8 | 15 | 1.0 | | | ELECTRICAL ROOM REC |
| SPECIAL NEEDS 123 REC | | 1.0 | | 15 | 9 | 10 | 15 | | 1.0 | | SPRINKLER ROOM REC |
| SPECIAL NEEDS 123 REC | | | 1.0 | 15 | 11 | 12 | 15 | | | 1.0 | VESTIBULE 100-8 REC |
| LEARNING COMMONS FRIDGE | 1.0 | | | 15 | 13 | 14 | 15 | 1.0 | | | CUSTODIAN OFFICE REC |
| LEARNING COMMONS REC | | 1.0 | | 15 | 15 | 16 | 15 | | 0.1 | | EXIT SIGNS ✳ |
| MOVEMENT REC | | | 1.0 | 15 | 17 | 18 | 15 | | | 1.0 | JANITOR REC |
| CHANGE TABLE REC | 1.0 | | | 15 | 19 | 20 | 20 | 1.4 | | | HAND DRYER |
| CHANGE TABLE REC | | 1.0 | | 15 | 21 | 22 | 20 | | 1.4 | | HAND DRYER |
| I.T. REC | | | 1.0 | 20 | 23 | 24 | 20 | | | 1.4 | HAND DRYER |
| I.T. REC | 1.0 | | | 20 | 25 | 26 | 15 | 0.1 | | | KEYSCAN PANEL |
| DOOR OPERATORS | | 0.6 | | 15 | 27 | 28 | 15 | | 0.1 | | NATURAL GAS ZENER BARRIER |
| BAS | | | 0.1 | 15 | 29 | 30 | 15 | | | | SPARE |
| CLOCK / PA SYSTEM | 0.1 | | | 15 | 31 | 32 | 15 | | | | SPARE |
| SPARE | | | | 15 | 33 | 34 | 15 | | | | SPARE |
| SPARE | | | | 15 | 35 | 36 | | | | | |
| | 5.1 | 4.6 | 3.1 | load | 60A 3P | | load | 4.9 | 4.0 | 4.4 | |
| | A | B | C | Total Connected : | 26.1kW | | | A | B | C | |

✳ PROVIDE LOCK - ON CLIP ON BREAKER.

✳✳ WIRE RECEPTACLE CIRCUIT TO RECEPTACLE CONTROLLER. CONTROL SUCH THAT WHEN LIGHTS IN ROOM ARE DE-ENERGIZED RECEPTACLE CIRCUIT IS SHUT OFF.

## PANEL "D"

☒ FLUSH ☐ SURFACE ☒ SPRINKLER PROOF ☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 60A
LOCATION: OFFICE CORRIDOR 102-3
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ELEVATOR MACHINE 103 REC | 1.0 | | | 15 | 1 | 2 | 15 | 1.0 | | | OFFICE MEETING REC |
| ELEVATOR CAB LIGHTS | | 1.0 | | 15 | 3 | 4 | 15 | | 1.0 | | MAIN OFFICE REC |
| ELEVATOR PIT GFCI REC | | | 1.0 | 15 | 5 | 6 | 15 | | | 1.0 | MAIN OFFICE REC |
| UNIV WR REC | 1.0 | | | 15 | 7 | 8 | 15 | 1.0 | | | PRINCIPAL OFFICE REC |
| UNIV WR REC | | 1.0 | | 15 | 9 | 10 | 15 | | 1.0 | | VICE PRINCIPLE OFFICE REC |
| OFFICE HEALTH REC | | | 1.0 | 15 | 11 | 12 | 15 | | | 1.0 | VEST 100-1 DOOR OPERATORS |
| KITCHEN 101 FRIDGE | 1.0 | | | 15 | 13 | 14 | 15 | 1.0 | | | CORRIDOR 100-3 REC |
| KITCHEN 101 FRIDGE | | 1.0 | | 15 | 15 | 16 | 15 | | 0.1 | | EXIT SIGNS ✳ |
| KITCHEN 101 FRIDGE | | | 1.0 | 15 | 17 | 18 | 15 | | | 0.1 | FIRE ALARM CONTROL PANEL ✳ |
| KITCHEN 101 DISHWASHER | 1.0 | | | 15 | 19 | 20 | 15 | 0.3 | | | UNIV. WR DOOR OPERATOR |
| KITCHEN 101 COUNTER REC | | 1.0 | | 15 | 21 | 22 | 20 | | 1.4 | | STAFF WR HAND DRYER |
| KITCHEN 101 COUNTER REC | | | 1.0 | 15 | 23 | 24 | 15 | | | | FUTURE CEILING FANS |
| KITCHEN 101 OVEN | 3.0 | | | 50 | 25 | 26 | 15 | 0.1 | | | BAS |
| 3 #8 CU + GRD | | 3.0 | | 2P | 27 | 28 | 15 | | 0.9 | | DOOR OPERATOR |
| KITCHEN 101 MICROWAVE | | | 1.0 | 15 | 29 | 30 | 15 | | | | SPARE |
| SPARE | | | | 15 | 31 | 32 | 15 | | | | SPARE |
| SPARE | | | | 15 | 33 | 34 | 15 | | | | SPARE |
| SPARE | | | | 15 | 35 | 36 | | | | | |
| | 7.0 | 7.0 | 5.0 | load | 60A 3P | | load | 3.4 | 4.4 | 2.1 | |
| | A | B | C | Total Connected : | 28.9kW | | | A | B | C | |

✳ PROVIDE LOCK - ON CLIP ON BREAKER.

## PANEL "E"

☐ FLUSH ☒ SURFACE ☒ SPRINKLER PROOF ☒ MAIN BREAKER

VOLTAGE: 120 / 208V - 3Ø - 4W
MAINS: 60A
LOCATION: STORAGE 128-10
FED FROM: SWITCHBOARD

| DESCRIPTION | LOAD A | LOAD B | LOAD C | BKR SIZE | CCT No. | CCT No. | BKR SIZE | LOAD A | LOAD B | LOAD C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| KITCHEN 128 OVEN | 3.0 | | | 50 | 1 | 2 | 20 | 1.0 | | | GYM SCOREBOARD |
| 3 #8 CU + GRD | | 3.0 | | 2P | 3 | 4 | 20 | | 1.0 | | GYM RECEPTACLES |
| KITCHEN 128 FRDIGE | | | 1.0 | 15 | 5 | 6 | 15 | | | 1.0 | GYM RECEPTACLES |
| KITCHEN 128 COUNTERTOP REC | 1.0 | | | 20 | 7 | 8 | 15 | 1.0 | | | STAGE RECEPTACLES |
| COMMUNITY ROOM REC | | 1.0 | | 15 | 9 | 10 | 15 | | 0.3 | | BASKETBALL BACKBOARD |
| COMMUNITY ROOM REC | | | 1.0 | 15 | 11 | 12 | 15 | | | 0.3 | BASKETBALL BACKBOARD |
| OFFICE 128-5 REC | 1.0 | | | 15 | 13 | 14 | 20 | 0.7 | | | 20A GYM CURTAIN REC |
| OFFICE 128-4 REC | | 1.0 | | 15 | 15 | 16 | 15 | | 0.4 | | GYM CEILING FANS |
| STORAGE REC | | | 1.0 | 15 | 17 | 18 | 15 | | | 0.4 | GYM CEILING FANS |
| ✳ EXIT SIGNS | 0.1 | | | 15 | 19 | 20 | 15 | 0.1 | | | BAS |
| KITCHEN COUNTERTOP REC | | 1.0 | | 20 | 21 | 22 | 15 | | 1.0 | | STAGE LIGHTING RECEPTACLES |
| SPARE | | | | 15 | 23 | 24 | 15 | | | | SPARE |
| SPARE | | | | 15 | 25 | 26 | 15 | | | | SPARE |
| SPARE | | | | 15 | 27 | 28 | 15 | | | | SPARE |
| | | | | | 29 | 30 | | | | | |
| | 5.1 | 6.0 | 3.0 | load | 60A 3P | | load | 2.8 | 2.7 | 1.7 | |
| | A | B | C | Total Connected : | 21.3kW | | | A | B | C | |

✳ PROVIDE LOCK - ON CLIP ON BREAKER.

| issue | issued for | date | init. |
|---|---|---|---|
| 2 | BUILDING PERMIT / TENDER | 20FEB2026 | CR |
| 1 | BUILDING PERMIT / TENDER | 06FEB2026 | CR |
| 0 | BUILDING PERMIT | 14NOV2025 | CR |

seal

LICENSED PROFESSIONAL ENGINEER 20 Feb 2026 A. J. MEYER 100211449 PROVINCE OF ONTARIO

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DSBN DISTRICT SCHOOL BOARD OF NIAGARA

project title

PROPOSED NEW ELEMENTARY SCHOOL

415 EASTBRIDGE AVENUE, WELLAND, ON

drawing title

POWER RISER AND PANEL SCHEDULES

drawn by: PB
designed by: CR
scale: AS NOTED
date: 15 JUL 2025
job number: 25021
issue: 2
drawing number: E5-2

24"x36" Imperial
P:\2025 Projects\25021 DSBN Two New Schools RFP\Drawings\Electrical\25021 Elec.dwg drawing tab: E5-2
plotted by: pbiamonte on Feb 19, 2026 - 12:38pm