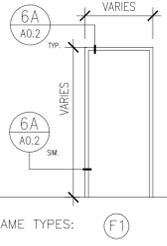
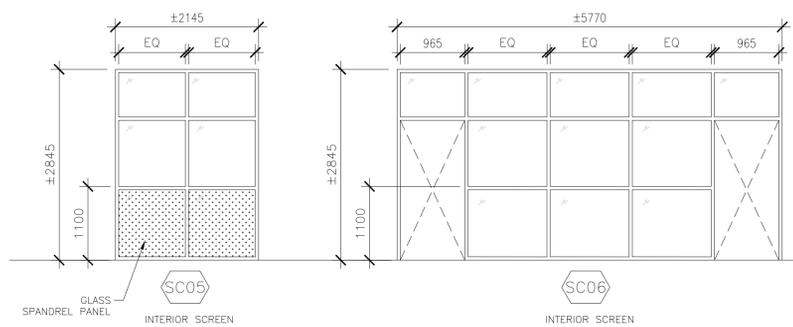


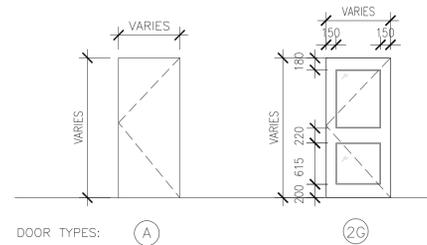
NOTES ON H.M. DOOR AND SCREEN FRAMES:
 1. ALL GLAZING IN SCREENS TO BE TEMPERED.
 2. REFER TO DOOR SCHEDULE FOR GLAZING TYPES.
 3. NEW DOOR FRAMES (NOT IN SCREEN) TO BE 50mm FRAMES.
 4. ALL NEW SCREEN FRAMES TO BE 50mm.



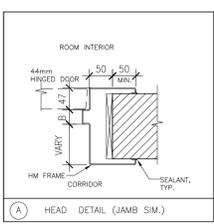
4 FRAME TYPES
A0.2 1:50



3 SCREEN TYPES
A0.2 1:50



5 DOOR TYPES
A0.2 1:50



6 DETAILS
A0.2 NTS

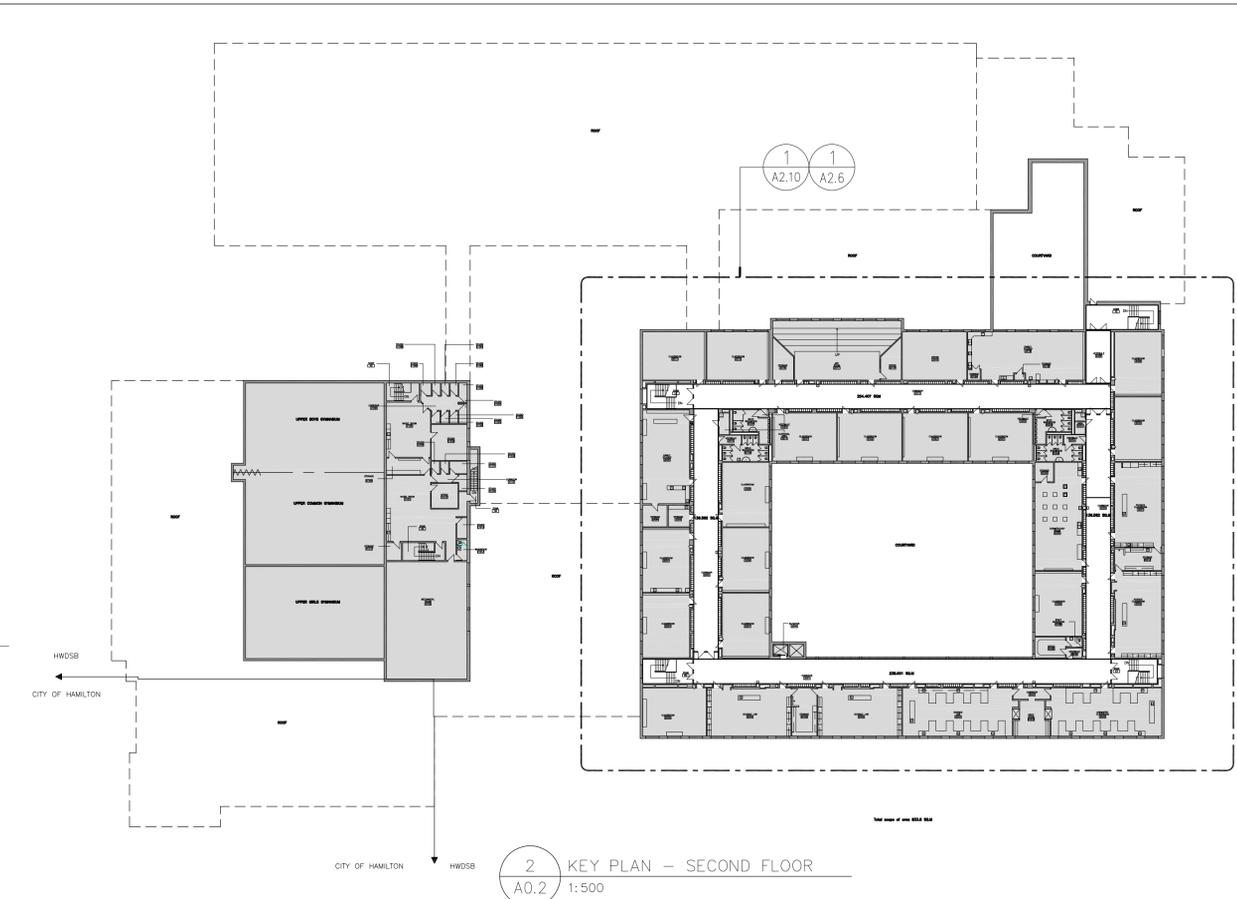
| INTERIOR PARTITION ASSEMBLY | |
|---|--|
| GRAPHIC DESCRIPTION | |
| DESIGNATION | DI-100 |
| LOCATION | INTERIOR BLOCK WALL |
| FIRE SEPARATION RATING (F.R.A.) REQUIRED/PROVIDED | N/A |
| INSULATION REQUIRED/PROVIDED | N/A |
| SOUND TRANSMISSION CLASS REQUIRED/PROVIDED | N/A |
| COMPOSITION | - 90 mm LIGHT WEIGHT CONCRETE MASONRY TO U/S OF DECK - LIGHT WEIGHT CONCRETE BLOCK INFILL - BLOCK THICKNESS TO MATCH ADJACENT EXISTING WALL TO EXTENT OF OPENING. |

7 ASSEMBLY SCHEDULE
A0.2 NTS

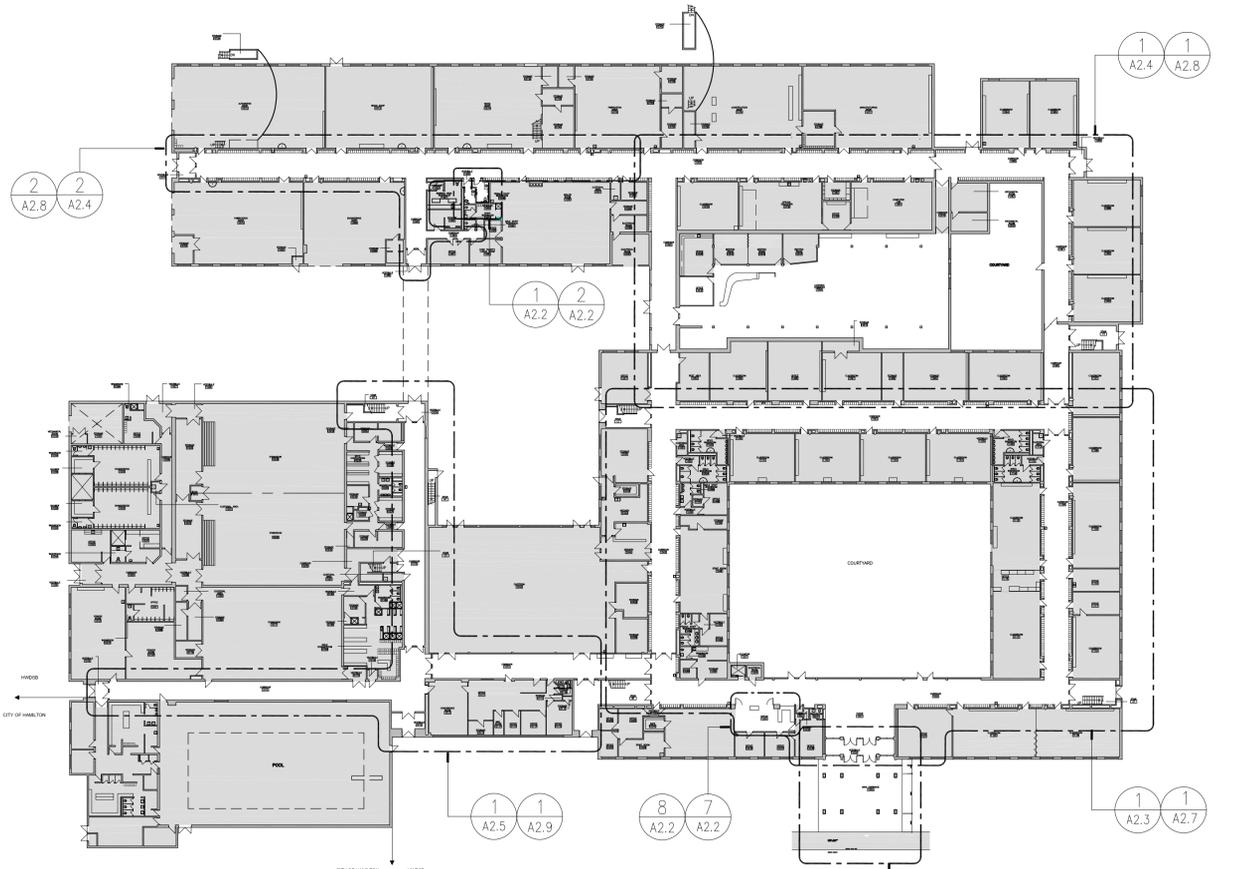
| ROOM NAME | DOOR | | TYPE | MATL. | GLASS | FRAME | | | FIRE RATINGS | REMARKS |
|-------------------------------|------------------|--------------|------|-------|-------|-------|-------|--------|--------------|---|
| | NUMBER | SIZE | | | | TYPE | MATL. | FINISH | | |
| MAIN ENTRANCE [1000] | D1000A D1000B | 2-965 X 2085 | 2G | AL | G2 | SC01 | AL | ANOD | - | EXTERIOR THERMALLY BROKEN FRAME & DOOR, D1000B: AUTOMATIC DOOR OPERATOR & PUSH BUTTONS, ACCESS CONTROL. |
| FOYER [1001] | D1001A D1001B | 2-965 X 2085 | 2G | AL | G1 | SC03 | AL | ANOD | - | DOOR D1001B: AUTOMATIC DOOR OPERATOR & PUSH BUTTONS. |
| OFFICE [1004] | D1004A D1004B | 965 X 2085 | 2G | AL | G1 | SC06 | AL | ANOD | - | OFFICE LOCKS |
| BARRIER FREE WASHROOM [1059A] | D1059A | 965 X 2085 | A | HM | - | F1 | HM | PT | - | AUTOMATIC DOOR OPERATOR & PUSH BUTTONS. |

HM: HOLLOW METAL AL: ALUMINUM PT: PAINT ANOD: ANODIZED G1: 6MM TEMPERED GLASS G2: 25MM INSULATED GLASS EX: EXISTING PREFIN: PREFINISHED
 *DOOR OPENING DIMENSIONS GIVEN, SITE VERIFY TO CONFIRM DIMENSIONS

8 DOOR SCHEDULE
A0.2 1:50



2 KEY PLAN - SECOND FLOOR
A0.2 1:500



1 KEY PLAN - FIRST FLOOR
A0.2 1:500

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
 CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.
 NOTE: DRAWINGS ARE NOT TO BE SCALED.

| No. | Date | Remarks |
|-----|------------|----------------------------|
| 5 | 2025.01.24 | Issued for Tender |
| 4 | 2024.12.18 | Issued for Building Permit |
| 3 | 2024.12.10 | Issued for Coordination |
| 2 | 2024.11.04 | Issued for Coordination |
| 1 | 2024.09.30 | Issued for Coordination |

Corridor Ceiling and Accessibility
Renovations at
HWDSB Orchard Park SS
200 Dewitt Road,
Stoney Creek, Ontario

Dwg. Title:
**Key Plans,
Screen Types,
& Door/Frame
Schedule**

Drwn: Chkd: WJC
Proj. No.: 24014
Scale: As noted
Date: 09/17/2024

Drawing No.:
A0.2

Aluminum Entrance Doors and Framing:
 Exterior doors and screen equal to Alumicor ThermoPorte 7700 Series T400B in FlushGlaze BF 3400 Series. Interior doors and screen equal to Alumicor Canadiana Series 400B in FlushGlaze TL 1800 Series.
 All doors and frames to be natural anodized finish.
 Glazing to be 25mm overall thickness. Glass to be sealed insulated glass units filled with argon.
 Exterior - 5mm Clear Tempered Low-E glass
 Interior - 5mm Tempered glass
 Exterior Aluminum Entrance Doors and Frames: To ANMA/WDMA/CSA 1011/S. 2/A440 and CSA A440S1, meeting the following performance criteria:
 1. Air Tightness:
 .1 Frames: Class Fixed.
 .2 Doors: Class A3.
 2. Water Tightness: Class B3.
 3. Wind Load Resistance: Class C5.
 4. Condensation Resistance Temperature Index: Class IG253
 5. Assembly Thermal Transmittance (ANSI/NFRC 100):
 .1 Frames: U < 2.15 W/m2 degrees C.
 .2 Doors: U < 3.94 W/m2 degrees C.
 6. Assembly Solar Heat Gain Coefficient (ANSI/NFRC 200): SHGC ≤ 0.40.

Fabricate Products to ANMA/WDMA/CSA 1011/S. 2/A440 and CSA A440S1.
 Install Products to CAN/CSA-A440.4.
 Extended Warranties: Submit extended warranties, covering full replacement of Products experiencing air leakage, water leakage, defects or malfunctions under normal usage for the following durations:
 1. Manufacturer's Warranty: Ten years.
 2. Installer's Warranty: Two years.

Install glazing to IGMAC Glazing Recommendations for Sealed Insulated Glass Units and GANA Glazing Manual.
 Acceptable manufacturers: Alumicor, Kawneer, Oldcastle, Commdoor, Toro.

HM Doors & Frames:
 Frames:
 Flush, galvanized, 16-gauge H.M. welded frames, equal to Fleming F-16 frames, narrow face profile where noted, paint finish.

Doors:
 Flush, galvanized, 1.75" (45mm), 18-gauge H.M. doors to receive a paint finish, equal to Fleming D series.

Hollow Metal Doors:
 16 gauge lockseam doors constructed of galvanized steel sheet. Internally reinforced with vertical steel channels separated by semi-rigid fibreglass insulation. Interior doors and screens to have 1/4" tempered glazing except where Georgian wired glass is required for fire-rating.

Hollow Metal Frames:
 1.5mm thick, cold-rolled commercial quality steel; galvanized finish.
 Blank, reinforce, drill and tap frames for mortised hardware. Reinforce frames for surface mounted hardware. Hardware reinforcing to be minimum 3.4mm for hinges panic devices, 2.7mm for surface mounted hardware, 1.5mm for other devices. All glazing in Doors and Screens to be 1/4" Tempered glass.

Washroom Accessories:
 Soap Dispenser & Toilet Paper Dispenser: supplied by Owner and installed by contractor.
 Sanitary Napkin Disposal: 22 gauge stainless steel wall mounted sanitary napkin receptacle (6 litre capacity) - Code 622 by Frost Products Ltd. or approved equivalent.
 Grab Bars: Equal to ASI 3700 Series, 1-1/4" diameter, snap-on flange concealed mounting, peened finish.
 Type GB-01 24" long bar above each toilet.
 Type GB-02 32x16" L-shaped bar beside the toilet.
 Vandal Resistant Mirror M1 (Small):
 ASI 0600-C2436 tempered glass and Type 304 stainless steel frame 24"x36"
 Coat Hook: Equal to Frost 1150 Safety Hook.
 Provide 1 on rear of each door at 1200mm AFF in Barrier Free Washroom 1059A and at 1500mm AFF in Single Occupancy Washroom 1059B.
 Wall Mounted Garbage Bin(GRB): Type 304 Stainless Steel Regular Capacity (50 litres) Code 326 Wall Mount Receptacle by Frost Products Ltd. or approved equivalent.

Suspended Acoustic Lay-in Ceiling Tile ACT:
 To ASTM E1264, Type III, Form 1, Pattern C E: 24" x 48" size, 7/8" thick wet-formed mineral fiber non-sagging lay-in tile, complete with factory-applied latex paint. White colour; Fine Fissured High NRC - 1755 by Armstrong World Industries or similar by CertainTeed Canada, Inc. or CGC Inc.

Suspended Ceiling Grid:
 To ASTM C635/C635M, Class HD; commercial quality, cold rolled steel, non-fire rated; main tees, cross tees and grid adapters with exposed 15/16" T-shape, 1-11/16" high; die cut and interlocking components; White baked enamel finish; Prelude XL by Armstrong World Industries or similar by CertainTeed Canada, Inc. or CGC Inc.

Install suspended ceiling grid to ASTM C636/C636M and CISCA installation standards. Include for all stabilizer bars, clips, splices, transitional mouldings, edge mouldings, hanger wire, tie wire and all other accessories to make a complete installation.

Ceramic Wall Tiles on exterior entrance columns CT-A
 Acceptable Materials: Size 1000mm x 3000mm x 3.5mm; "Laminam Filo" by Stone Tile International, matte finish. Allow for two (2) field colours from manufacturer's full line. Install with coloured epoxy grout to match.

Ceramic Wall Tiles at washroom CT-B
 Acceptable Materials: Size 73mm x300mm; "Shadebick Series" by Olympia Tile, matte finish. Allow for two (2) field colours from manufacturer's full line. Install with coloured epoxy grout to match.

Tile Edge Trim:
 Provide metal edge trim at all exposed tile edges.
 Equal to Schluter Jolly, anodized aluminum.

Tile Grout & Adhesive:
 Manufacturers of grout and adhesive having Product considered acceptable for use: FlexTile, Latitecra, Mapei, Proma Adhesives, Inc., TEC. Grout colour selected by Consultant from manufacturer's full colour range.

Millwork:
 Fabricate and install casework to AWMAC NAAWS 4.0, Custom Grade.
 Materials:
 Hardwood Lumber: White Birch, NHLA Select and Better Grade, with vertical grain capable of receiving a high quality transparent finish.
 Plywood: To ANSII/HPVA HP-1, Architectural G2S; hardwood veneer core comprised of minimum 9 plies; White Birch veneers, Face Grade A; Plain-Sliced (flat cut); of clear Book match grain capable of receiving a high quality transparent finish; thicknesses as indicated on Drawings.
 Medium Density Fiberboard (MDF): To ANSI A208.2, Grade MD; minimum 740 kg/m³ density and moisture content between 4.5 - 8.0 percent; with clear Natural finish; thicknesses as indicated on Drawings.
 Melamine Panels: melamine resin impregnated decorative paper, thermally fused to both sides of a premium grade medium density fiberboard (MDF). Performance to meet or exceed NEMA LD3-2005-VGS minimum requirements.
 Colour to be selected from full manufacturer's standard colour range.
 Decorative Laminate: High pressure decorative laminate to ANSINEMA LD3; as follows:
 1 General Purpose Type: Grade HGS, 1.2 mm thick.
 2 Postforming Type: Grade HGP, 1.0 mm thick.
 3 Backer Type: Grade BKM, 1.0 mm thick.
 4 Manufacturers: Arborite, Formica, Nevamar or Wilsonart.
 Cabinets:
 All countertops:
 Postformed plastic laminate with 180 degree wrapped bullnose edge.
 If wall finish around countertop is tiled, no integral backsplash is required.
 At junction of counter/counter backsplash & adjacent wall finish, apply small bead of sealant.
 Cabinet/Drawer Fronts/Doors & Cabinet Interiors:
 Melamine or plastic laminate on plywood, on all exposed surfaces.
 All cabinet interiors to be off-white colour (gray or beige) melamine or plastic laminate.
 Bodies, Shelves, Aprons, Skirts: 19mm thick.
 Backs: 6mm thick.
Rubber Floor Base:
 To ASTM F1861, Type TP, Group 1, Style B - Cove; 3.17mm thick thermoplastic rubber, 152mm high top set; complete with pre-moulded end stops and external corners; Charcoal colour; as manufactured by Armstrong World Industries, Flexco, Roppe Corporation or Tarkett Johnsonite.
Transition Strip:
 Thermoset vulcanized rubber, smooth, purpose made to accommodate wheeled traffic and prevent tripping; tapered designs to suit nature of transition; colours as selected by Consultant; as manufactured by Armstrong World Industries, Flexco, Roppe Corporation or Tarkett Johnsonite.

Fire Stopping & Smoke Seals:
 Firestop Sealant: To CAN/ULC-S115; ULC labelled; non-sagging type for vertical applications; types as listed in tested assemblies.
 Firestop Insulation: To CAN/ULC-S702.1, Type 2; manufactured from only rock or slag fibers, as listed in tested assemblies.
 Firestop Accessories: Firestop foams, boards, blocks, collars, wraps, putties and plugs; to CAN/ULC-S115; ULC labelled; types as listed in tested assemblies.
 Manufacturers: 3M Canada Inc. or Hilli Canada Corporation or A/D Fire Protection or Tremco.
 Inspect penetration firestop systems to ASTM E2174 and fire-resistant joint systems to ASTM E2393.
Concrete Specification:
 All concrete shall be designed to comply with the latest edition of CAN/CSA A23.3. The construction of concrete shall comply with the latest edition of CAN/CSA A23.1 and A23.2. Provide a minimum of 75mm of concrete cover for rebars placed in concrete cast against earth.
 28 day concrete compressive strength, f_c, shall be 32MPa.
 Exposure class: C-2
 Slump at delivery: 75mm (+/-) 25mm

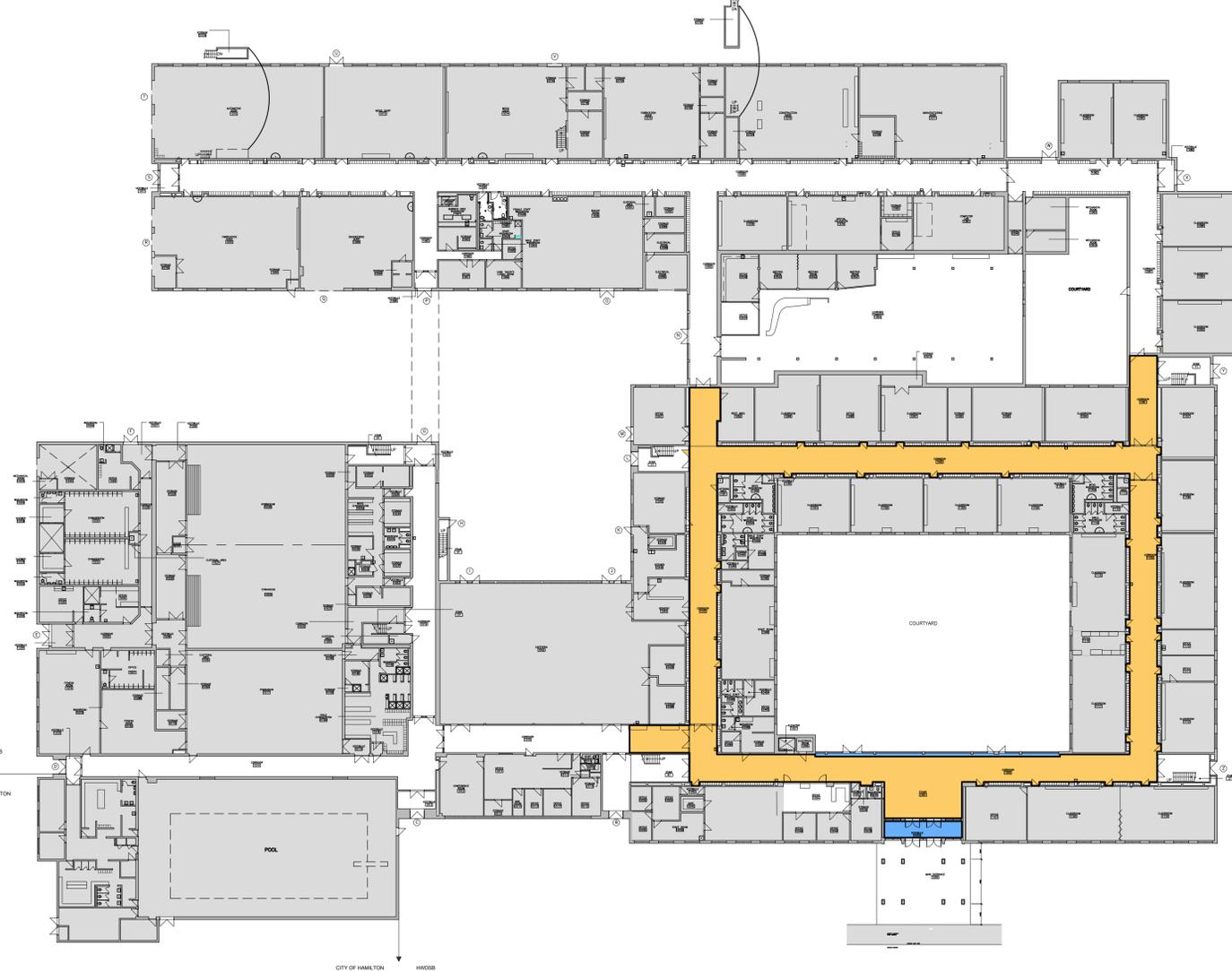
Glazing
 Sealed Insulating Glass Unit specifications: To CAN/CGSB-12.6; double pane with warm edge seal; comprised as follows:
 Outer Pane: 1/4" (6mm) thick tinted tempered glass.
 Interpane Space: filled with minimum 90% Argon gas.
 Inner Pane: 1/4" (6mm) thick clear tempered glass, sputtered low-E coating on #3 surface.
 Overall thickness: 1" (25mm)
 Manufacturer's name and product: eg. Solargray - Solabran 60 (3) Clear by Vitro Architectural Glass.
 Sealed Insulating Glass Units to have the following tested physical properties:
 1. Visible Light Transmittance (VLT): 35%
 2. Visible Light Reflectance: 7% exterior, 9% interior
 3. Coefficient of Heat Transmission, Winter Argon-filled (U-value): 1.36 W/m²
 4. Solar Heat Gain Coefficient (SHGC): 0.29
 5. Light to Solar Gain Ratio (LSG): 1.21
 Spandrel Glazing : single pane ; comprised as follows:
 Outer Pane: 6mm thick single pane, tinted and tempered glass with a coloured opaque coating applied to #2 surface, eg. Opac-Coat 300 by ICD High Performance Coatings, colour to match anodized aluminum window framing.
 Inner Liner: 1.5 mm thick anodized aluminum panel, sealed at all edges.

Joint Sealants:
 Grout by composite. Acoustical Sealant: To CAN/CGSB-19.17-M; one-part, siliconized acrylic latex, mildew-resistant, accommodating joint movement of plus or minus 12-1/2 percent; colours as selected by Consultant; Tremflex 634 by Tremco or similar by Dow, General Electric or Master Builders Solutions Canada, Inc.
 Mildew-Resistant Sealant: To ASTM C920, Type S, Grade NS, Class 25, Use NT, G, A, and O; one-part, acetoxy silicone sealant, complete with integral fungicide; colours as selected by Consultant; Tremal 200 by Tremco or similar by Dow, General Electric or Master Builders Solutions Canada, Inc.
 Install joint sealants to ASTM C1193.
 Install acoustical sealants to ASTM C919.
 Inspect completed sealant joints for adhesion and cohesion to ASTM C1521.
 Exterior Weatherseal Sealant: To ASTM C920, Type S, Grade NS, Class 35, Use NT, M, A and O; one-part, moisture curing, low modulus polyurethane sealant; accommodating joint movement of plus or minus 35 percent, with a 30- to 90-minute skin time; eg. Dymonic FC by Tremco.
 Colour: To be selected from full standard range by consultants.
 Acceptable manufacturers: Tremco, GE, Dow, or 3M.
 Glazing Sealant: To CAN/CGSB-19.13-M, Type MG-2-25-A-L; one-part, moisture curing, acetoxy silicone sealant; eg. Proglaze by Tremco, Clear colour.

Paint:
 Conform to MPI Architectural Painting Specification Manual, using only Products from the following manufacturers as listed in MPI Approved Products List for each scheduled paint system. Provide primers and undercoats produced by same manufacturer as finish coats.
 Manufacturers: Benjamin Moore & Co. Ltd., ICI (Dulux) Paints, MF Paints Inc. (Innovation Plus), Para Paints Canada Inc., PPG Canada Inc. (Pittsburgh Paints), Pratt & Lambert Co., Sherwin-Williams Canada, and Sico Coatings, Inc.
 Conform to MPI Maintenance Repainting Manual for refinishing existing previously finished surfaces.

Paint System Schedule
 1. Concrete - Opaque Painted Finish: INT. 3.1M - Institutional low odor/voc, Premium Grade; Gloss Level G5 - Semi-Gloss.
 2. Concrete Masonry Units - Opaque Painted Finish: INT. 4.2E - Institutional low odor/voc (over latex block filler), Premium Grade; Gloss Level G5 - Semi-gloss. Provide block filler primer on all new concrete block masonry before applying paint.
 3. Brick - Opaque Painted Finish: INT. 4.1M - Institutional low odor/voc (over latex primer/sealer), Premium Grade; Gloss Level G5 - Semi-gloss.
 4. Gypsum Board Walls - Opaque Painted Finish: INT. 9.2M - Institutional low odor/voc (over latex primer/sealer), Premium Grade; Gloss Level G4 - Satin.
 5. Gypsum Board Ceilings - Opaque Painted Finish: INT. 9.2M - Institutional low odor/voc (over latex primer/sealer), Premium Grade; Gloss Level G1 - Flat.
 6. Galvanized and Galvannealed Metal - INT. 5.3N - Institutional low odor/voc (over w.b. galvanized primer), Premium Grade; Gloss Level G5.
 Colours: Up to 4 colours as selected by Consultant.
 NOTE: All exterior metal to be hot-dipped galvanized.

Extra Stock Provide 3% additional extra stock materials for all wall and floor finishing materials. Contractor to provide new, unopened cartons of finish materials to Owner c/w intact original labels. Deliver to and store extra stock materials at location directed by Owner at Place of the Work.



GWB-2
 PROVIDE 16mm TYPE 'X' UNPAINTED GYPSUM BOARD CEILING C/W METAL TRACK TIGHT TO U/S OF LOWEST FIXED ITEMS SUCH AS STRUCTURAL STEEL OR PIPE WORK. GYPSUM CEILING TO PROVIDE 50 MINUTES FIRE-RESISTANCE AS PER SB-2 TABLE 2.3.4.B, AND TABLE 2.3.4.F. TAPE ALL JOINTS AND APPLY COMPOUND TO ALL EXPOSED FASTENERS. GYPSUM BOARD CEILING TO EXTEND ABOVE LOCKERS TO TERMINATE AT CORRIDOR WALLS.

GWB-3
 PROVIDE 16mm TYPE 'X' PAINTED GYPSUM BOARD CEILING C/W METAL TRACK. HEIGHT TO MATCH EX. REMOVED CEILING FINISH. GYPSUM CEILING TO PROVIDE 50 MINUTES FIRE-RESISTANCE AS PER SB-2 TABLE 2.3.4.B, AND TABLE 2.3.4.F. TAPE & SAND ALL JOINTS AND APPLY COMPOUND TO ALL EXPOSED FASTENERS AND PREPARE SURFACE FOR PAINT FINISH.

2 LOCATION OF FIRE RATED GYPSUM BOARD CEILING
 A0.3 1:400

| FIRM NAME: | | NAME OF PROJECT: | | | | | | | | | | |
|---|---|---|--|------------|------------------------------|------------------------|-------------|------------------------------|---------------|----------------|-------------------|--|
| CGS CURRAN GACESA SLOTE ARCHITECTS INC. 118 JAMES ST. N., SUITE 301, HAMILTON, ONTARIO, L8R 2W7 TEL: (905) 297-0883 FAX: (905) 297-0884 | | Corridor Ceiling and Accessibility Renovations at Orchard Park Secondary School LOCATION: 200 Dewitt Road, Stoney Creek, Ontario | | | | | | | | | | |
| Item | Ontario's 2012 Building Code | OBC Reference | | | | | | | | | | |
| | Data Matrix Part 3 or 9 | References are to Division B unless noted [A] for Division A or [C] for Division C | | | | | | | | | | |
| 1 | Project Description: <input type="checkbox"/> New <input checked="" type="checkbox"/> Part 11 <input type="checkbox"/> Change of Use <input checked="" type="checkbox"/> Alteration | 1.1.1, 11.1, 11.4 | 1.1.2, [A], 1.1.2, [A]&9.10.1.3 | | | | | | | | | |
| 2 | Major Occupancy(s) Group A Division 2 (Secondary School) | 3.1.2.1 (1) | 9.10.2 | | | | | | | | | |
| 3 | Building Area (m ²) Existing 8,984 sqm New 0 Total 8,984 sqm | 1.4.1.2, [A] | 1.4.1.2, [A] | | | | | | | | | |
| 4 | Gross Area Existing 12,686 sqm Area of Renovation Work 3,272 sqm | 1.4.1.2, [A] | 1.4.1.2, [A] | | | | | | | | | |
| 5 | Number of Storeys Above grade 2 Below grade 1 | 1.4.1.2, [A] & 3.2.1.1 | 1.4.1.2, [A] & 9.10.4 | | | | | | | | | |
| 6 | Number of Streets/Fire Fighter Access 2 | 3.2.2.10 & 3.2.5. | 9.10.20 | | | | | | | | | |
| 7 | Building Classification Group A Division 2 | 3.2.2.20-83 | 9.10.2 | | | | | | | | | |
| 8 | Sprinkler System Proposed <input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof/rafter INDEX <input checked="" type="checkbox"/> not required <input checked="" type="checkbox"/> Exist. | 3.2.2.20-83 3.2.1.5 3.2.2.17 | 9.10.8.2 INDEX | | | | | | | | | |
| 9 | Standpipe required <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Exist. | 3.2.9 | N/A | | | | | | | | | |
| 10 | Fire Alarm required <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Exist. | 3.2.4 | 9.10.18 | | | | | | | | | |
| 11 | Water Service/Supply is Adequate <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Exist. | 3.2.5.7 | N/A | | | | | | | | | |
| 12 | High Building <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 3.2.6 | N/A | | | | | | | | | |
| 13 | Construction Restrictions <input type="checkbox"/> Combustible permitted <input checked="" type="checkbox"/> Non-combustible required <input type="checkbox"/> Both | 3.2.2.45 | 9.10.6 | | | | | | | | | |
| 14 | Mezzanine(s) Area m ² N/A | 3.2.1.1 (3)&8 | 9.10.4.1 | | | | | | | | | |
| 15 | Occupant load based on <input type="checkbox"/> m ² /person <input checked="" type="checkbox"/> design of building <input type="checkbox"/> design of building <input type="checkbox"/> design of building <input type="checkbox"/> design of building | 3.1.1.7.1 | 9.9.1.3 | | | | | | | | | |
| 17 | Barrier - Free Design <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Explain) Existing | 3.8. | 9.5.2 | | | | | | | | | |
| 18 | Hazardous Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 3.3.1.2 & 3.3.1.19 | 9.10.13(4) | | | | | | | | | |
| 19 | Spatial Separation | 3.2.3.1.B | 9.10.14. | | | | | | | | | |
| | Wall | Area of EBF (m ²) | L/D (m) | L/H or H/L | Permitted Max. % of Openings | Proposed % of Openings | FRR (Hours) | Listed Design or Description | Comb. Constr. | Comb. Cladding | Non-Comb. Constr. | |
| | North | EXIST. | EXIST. | EXIST. | 100% | <100% | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| | South | EXIST. | EXIST. | EXIST. | 100% | <100% | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| | East | EXIST. | EXIST. | EXIST. | 100% | <100% | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| | West | EXIST. | EXIST. | EXIST. | 100% | <100% | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| ONTARIO BUILDING CODE DATA MATRIX - PART 11 - RENOVATION OF EXISTING BUILDING | | | | | | | | | | | | |
| 11.1 | EXISTING BUILDING CLASSIFICATION | DESCRIBE EXISTING USE: CONSTRUCTION INDEX: HAZARD INDEX: n/a | DESCRIBE Group A Division 2 (Secondary School) | 11.2.1 | T 11.2.1.1.A | T 11.2.1.1.K | | | | | | |
| 11.2 | ALTERATION TO EXISTING BUILDING IS: | BASIC RENOVATION ■ EXTENSIVE ■ RENOVATION | | 11.3.3.1 | 11.3.3.2 | | | | | | | |
| 11.3 | REDUCTION IN PERFORMANCE LEVEL | STRUCTURAL: ■ YES ■ NO BY INCREASE IN OCCUPANT LOAD: ■ YES ■ NO BY CHANGE IN MAJOR OCCUPANCY: ■ YES ■ NO PLUMBING: ■ YES ■ NO SEWERAGE-SYSTEM: ■ YES ■ NO | | 11.4.2.1 | 11.4.2.2 | 11.4.2.3 | 11.4.2.4 | 11.4.2.5 | | | | |
| 11.4 | COMPENSATING CONSTRUCTION | STRUCTURAL: ■ NO ■ YES (EXPLAIN) INCREASE IN OCCUPANT LOAD: ■ NO ■ YES (EXPLAIN) CHANGE OF MAJOR OCCUPANCY: ■ NO ■ YES (EXPLAIN) PLUMBING: ■ NO ■ YES (EXPLAIN) SEWERAGE-SYSTEM: ■ NO ■ YES (EXPLAIN) | | 11.4.3 | 11.4.3.2 | 11.4.3.3 | 11.4.3.4 | 11.4.3.5 | 11.4.3.6 | | | |
| 11.5 | COMPLIANCE ALTERNATIVES PROPOSED | ■ NO ■ YES (GIVE NUMBERS) | | 11.5.1 | | | | | | | | |

1 OBC MATRIX
 A0.3 1:100



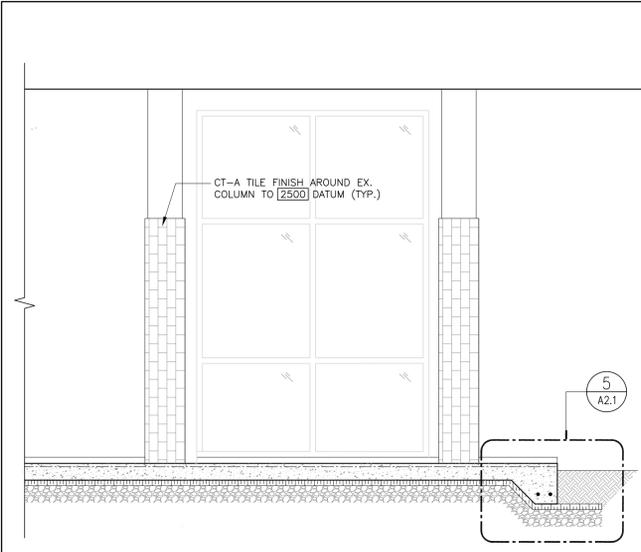
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 NOTE: DRAWINGS ARE NOT TO BE SCALED.

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| 1 | 2024.09.30 | Issued for Coordination |

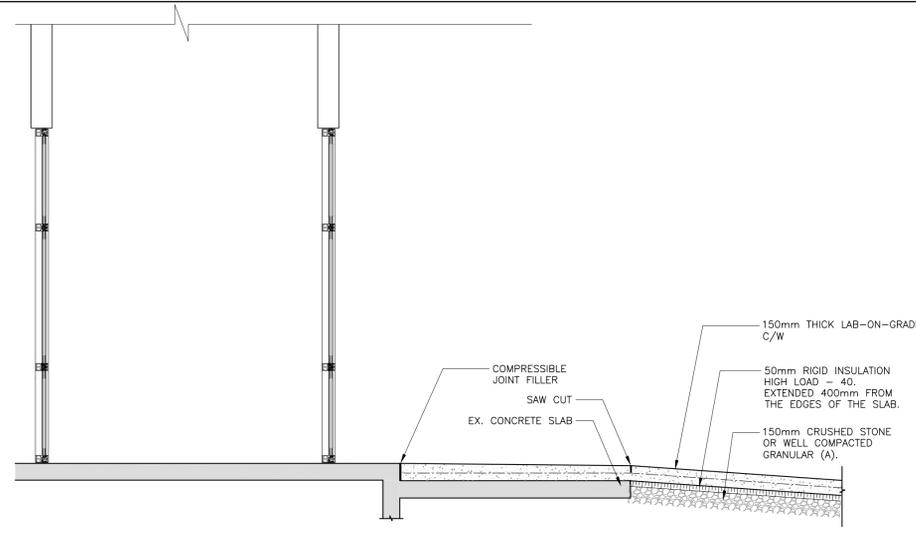
Corridor Ceiling and Accessibility Renovations at HWDSB Orchard Park SS
 200 Dewitt Road, Stoney Creek, Ontario

Dwg. Title:
OBC Matrix, Specification & Location of Fire Rated Ceiling
 Dwnn: Chkd: WJC
 Proj. No.: 24014
 Scale: As noted
 Date: 09/17/2024

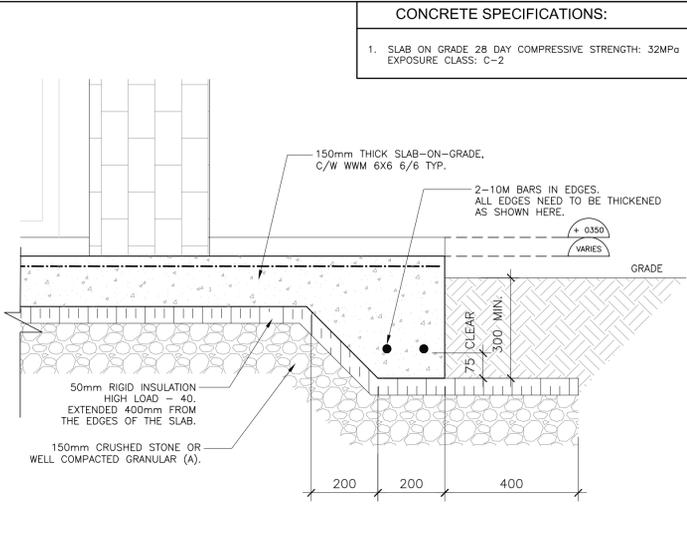
Drawing No.:
A0.3



3 SECTION
A2.1 1:30



4 SECTION
A2.1 1:30



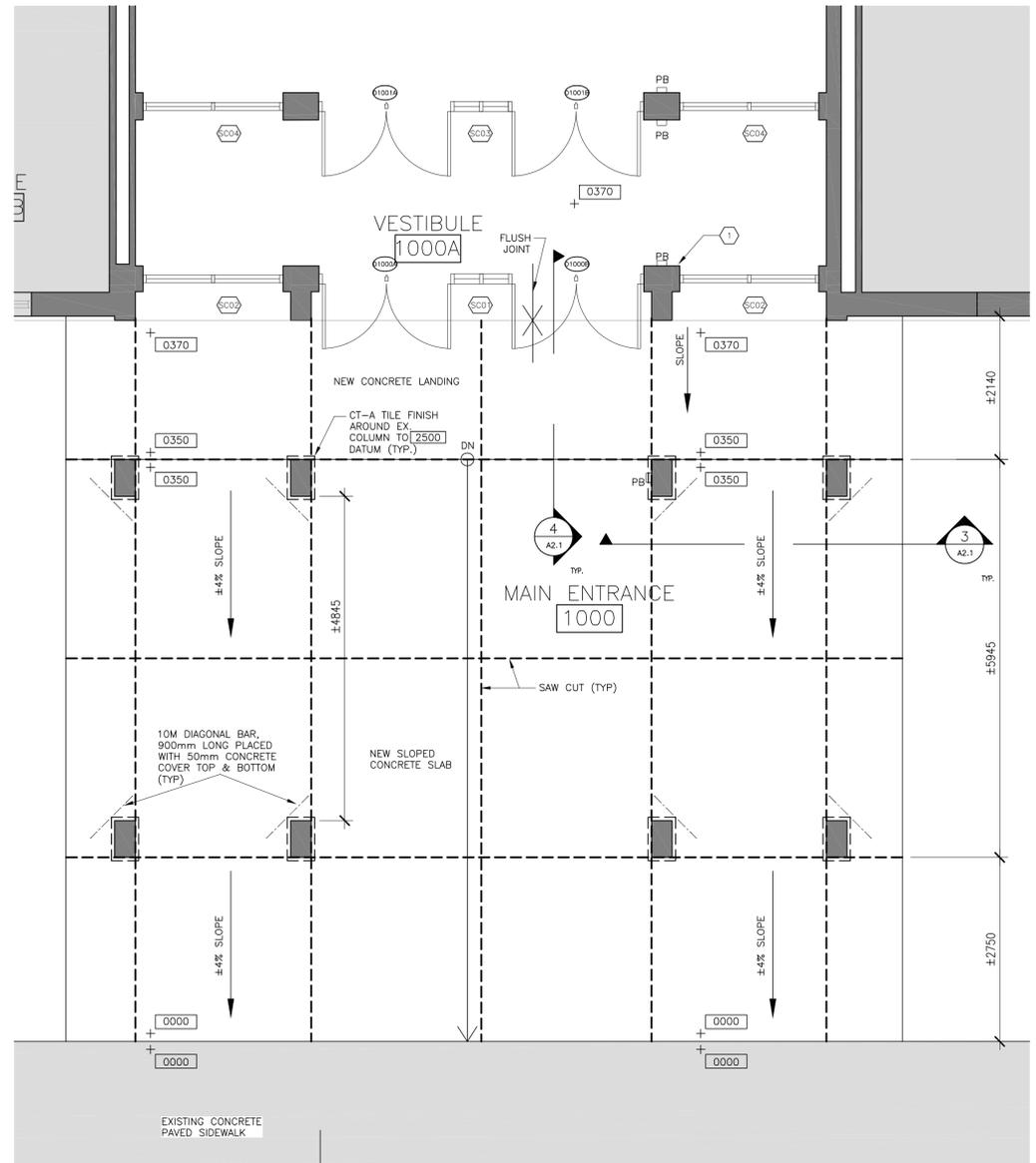
5 INSULATED EXTERIOR SLAB-ON-GRADE
A2.1 1:10

CONCRETE SPECIFICATIONS:
1. SLAB ON GRADE 28 DAY COMPRESSIVE STRENGTH: 32MPa
EXPOSURE CLASS: C-2

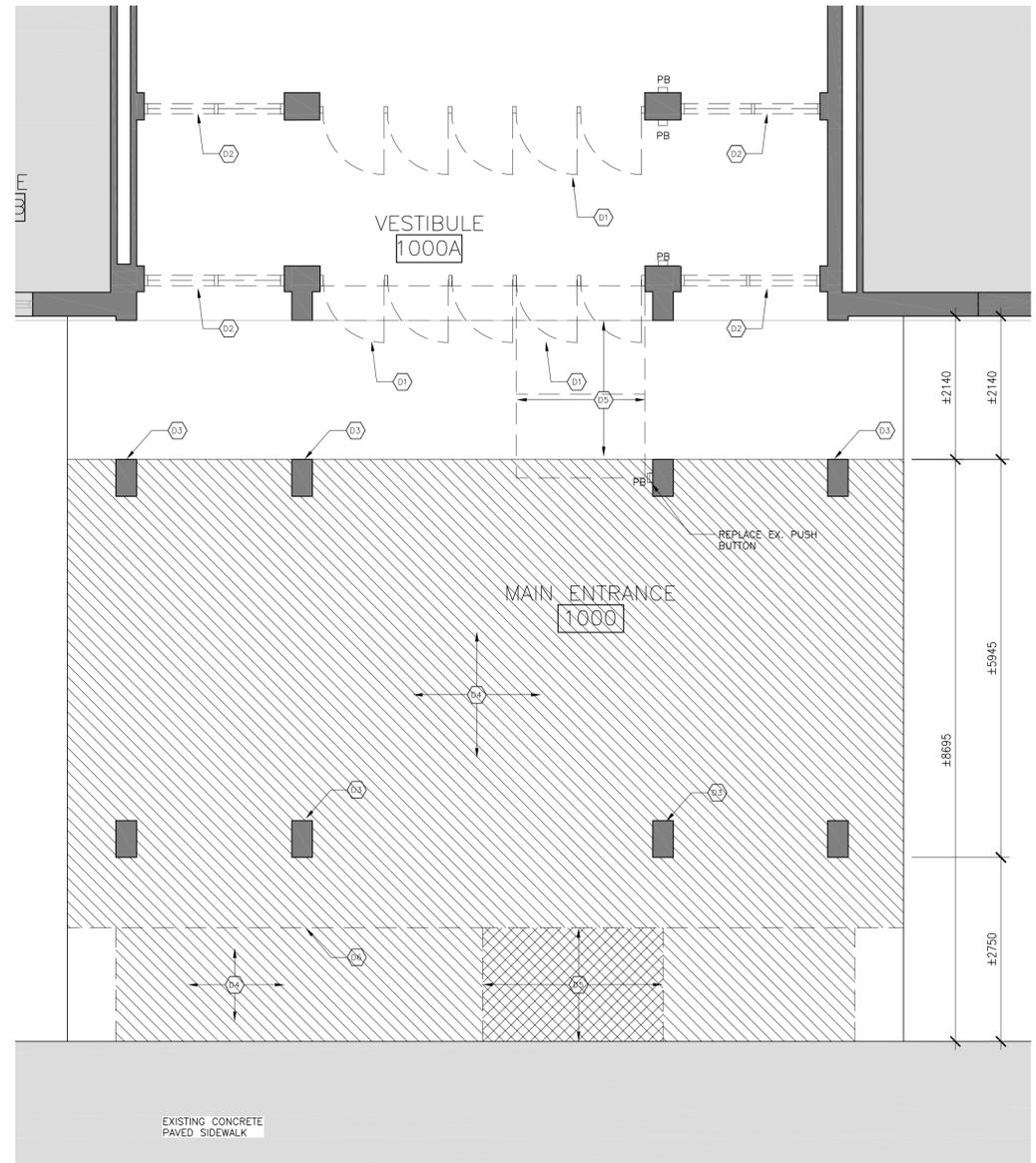
- DEMOLITION KEY NOTES**
- NOTE: ALL KEYNOTES MAY NOT BE USED
- D1 REMOVE EXIST. DOORS/FRAMES AND ALL ASSOCIATED ITEMS. PATCH AND REPAIR ALL ADJACENT SURFACES.
 - D2 REMOVE EXIST. GLAZED SCREENS/FRAMES AND ALL ASSOCIATED ITEMS.
 - D3 EXIST. COLUMNS TO REMAIN (TYP.).
 - D4 REMOVE EXIST. CONCRETE FLOOR. PREPARE THE SURFACE TO ACCEPT NEW CONCRETE FLOOR.
 - D5 REMOVE EXIST. CONCRETE SLOPED PAD.
 - D6 REMOVE EXIST. CONCRETE STEP.

- PLAN NOTES**
1. ALL PARTITIONS ARE UNLESS OTHERWISE NOTED
 2. LOCATE DOOR FRAMES 50mm FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

- PLAN KEY NOTES**
- NOTE: ALL KEY NOTES MAY NOT BE USED
- 1 PATCH & REPAIR DAMAGED WALL ABOVE ENTRANCE DOORS. WALL FINISHES TO MATCH WITH EXISTING WALL TILE FINISHES.



2 PARTIAL FIRST FLOOR - PLAN - MAIN ENTRANCE
A2.1 1:50



1 PARTIAL FIRST FLOOR - DEMOLITION PLAN - MAIN ENTRANCE
A2.1 1:50

PLAN LEGEND

- [Grey Box] EXISTING
- [White Box] DEMOLITION
- [White Box with Dashed Border] NEW CONSTRUCTION
- [Hatched Box] NEW WALL
- [Door Symbol] EXISTING DOOR TO REMAIN
- [Door Symbol] NEW DOOR
- [Circle with Dot] FLOOR DRAIN
- [Square with PB] PUSH BUTTON FOR AUTOMATIC DOOR OPENER

CURRAN GACESA SLOTE ARCHITECTS
CGS
118 JAMES ST. NORTH, SUITE 301, HAMILTON, ONTARIO L8P 2K7
TEL: 905-297-0863

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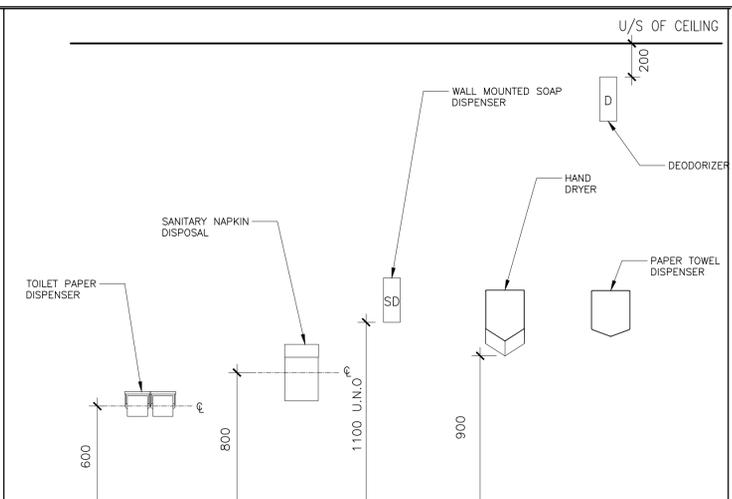
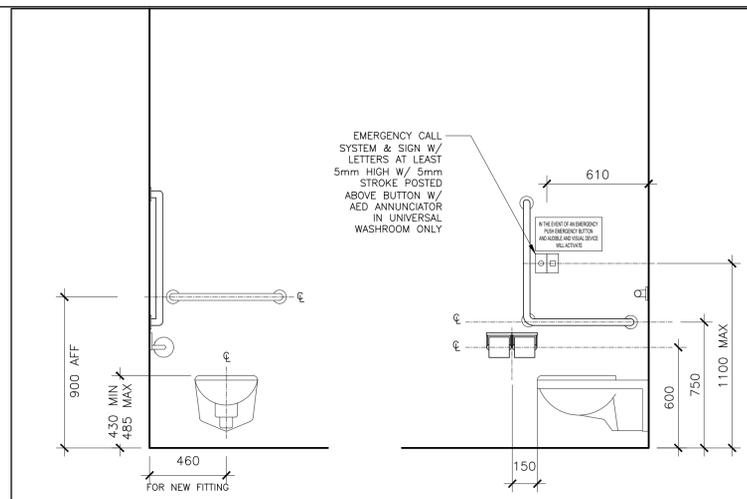
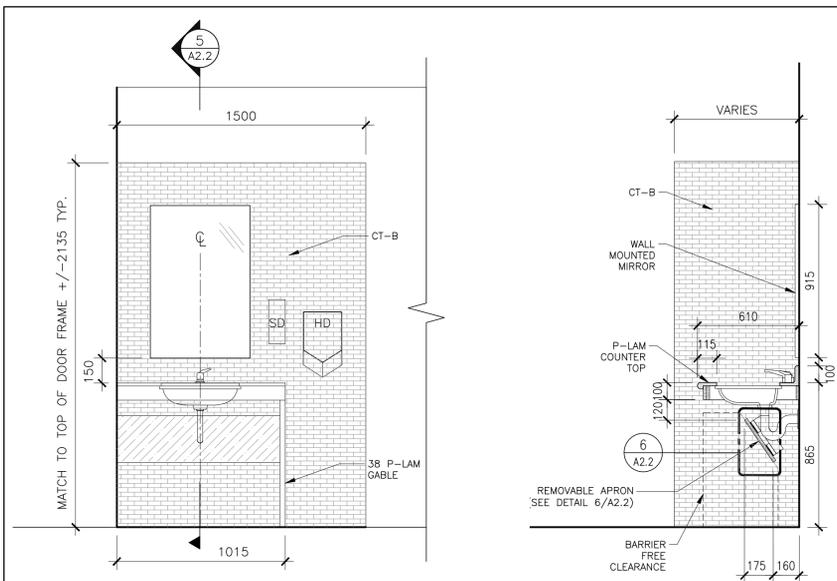
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| 1 | 2024.09.30 | Issued for Coordination |

Corridor Ceiling and Accessibility Renovations at HWDSB Orchard Park SS
200 Dewitt Road,
Stoney Creek, Ontario

Dwg. Title:
Demolition Plan, Proposed Floor Plan & Section at Main Entrance

Drwn: Chkd: WJC
Proj. No.: 24014
Scale: As noted
Date: 09/17/2024

Drawing No.:
A2.1

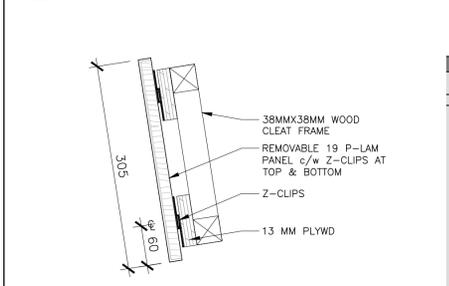


4 MILLWORK ELEVATION - WASHROOM 1059A
A2.2 1:20

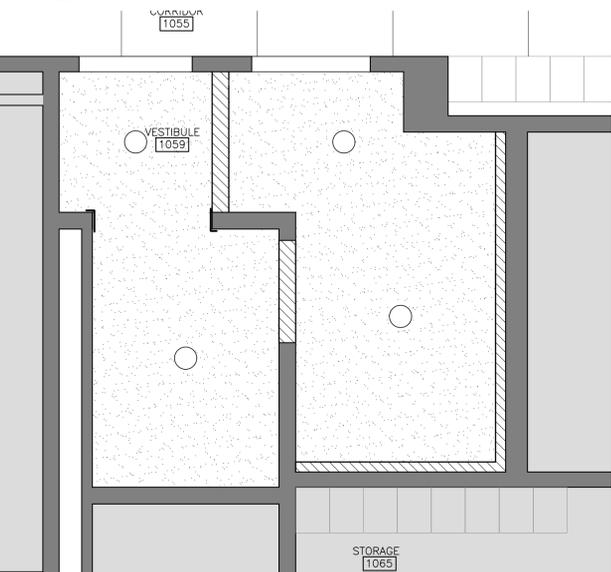
5 MILLWORK SECTION - WASHROOM 1059A
A2.2 1:20

A TYPICAL UNIVERSAL AND BARRIER FREE WASHROOM/STALL GRAB BARS AND ACCESSORIES

B WASHROOM ACCESSORY MOUNTING HEIGHTS



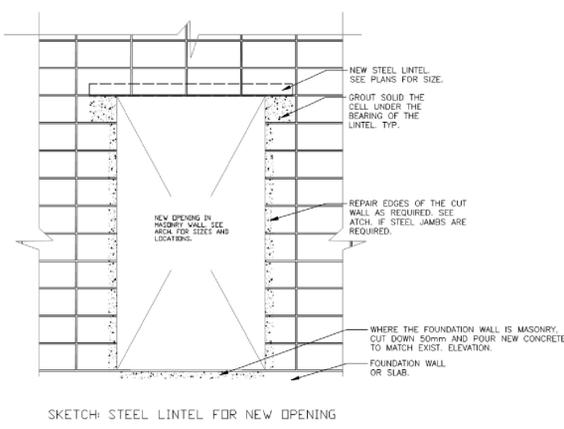
6 APRON DETAIL - WASHROOM 1059A
A2.2 1:20



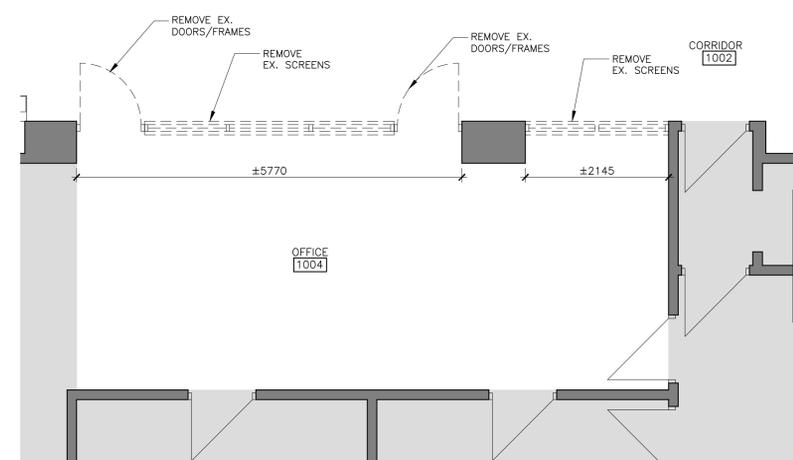
3 RCP - VESTIBULE 1059, WASHROOMS 1059A & 1059B
A2.2 1:30

PROVIDE A STEEL LINTEL TO SUIT THE THICKNESS OF THE EXISTING BLOCK WALL AS PER THE FOLLOWING TABLE. GC TO VERIFY THE EXISTING WALL THICKNESS:

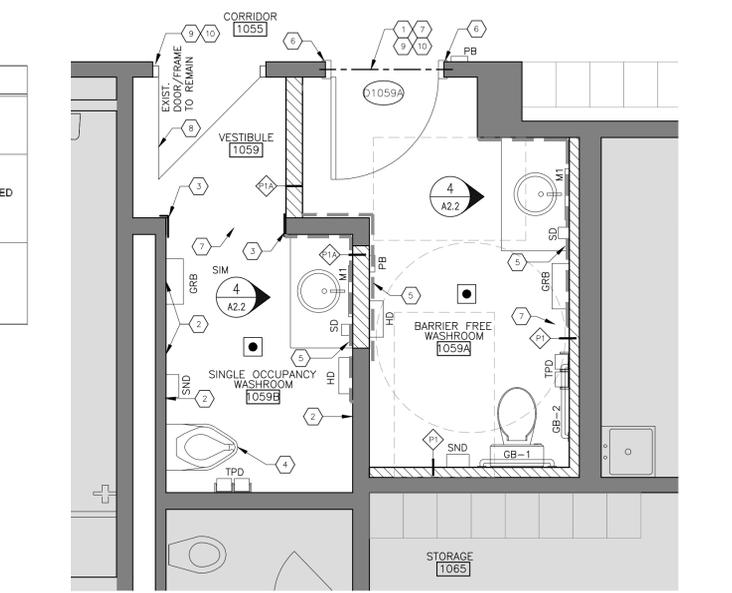
| WALL THICKNESS | SPAN (MM) | LINTEL SIZE (MM) | DETAILS |
|--------------------|---|--|--|
| 90 MM (3'-1 1/2") | UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000 | L90X90X6 L127X90X6 L127X90X8 L150X90X9.5 | LLV LLV LLV |
| 140 MM (5'-1 1/2") | UP TO 1200 >1200 TO 1800 >1800 TO 2400 | 2-L64X64X6 2-L90X64X6 2-L90X64X8 W/100X10 PLATE | BACK TO BACK BACK TO BACK, LLV BACK TO BACK, LLV, PLATE WELDED TO U/S OF HORIZONTAL LEGS |
| 190 MM (7'-1 1/2") | UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000 | 2-L75X90X6 2-L90X90X6 2-L100X90X8 2-L150X90X8 | BACK T BACK, (LLH) BACK TO BACK, LLV BACK TO BACK, LLV |



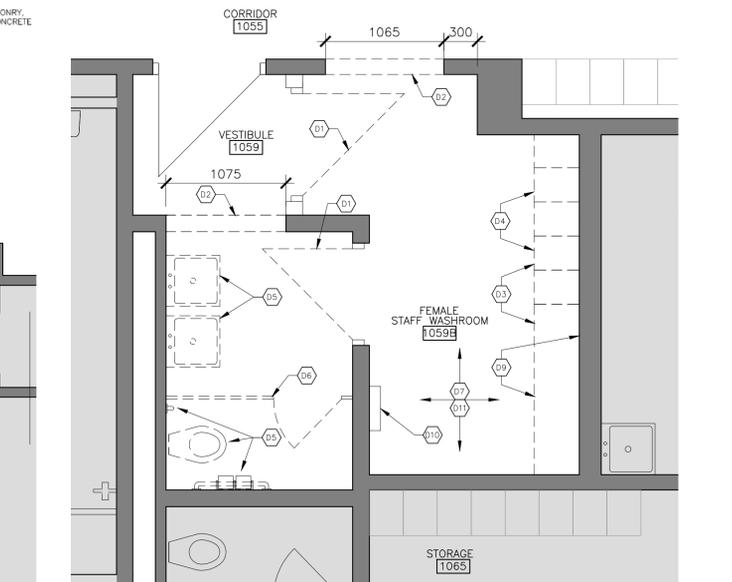
SKETCH: STEEL LINTEL FOR NEW OPENING



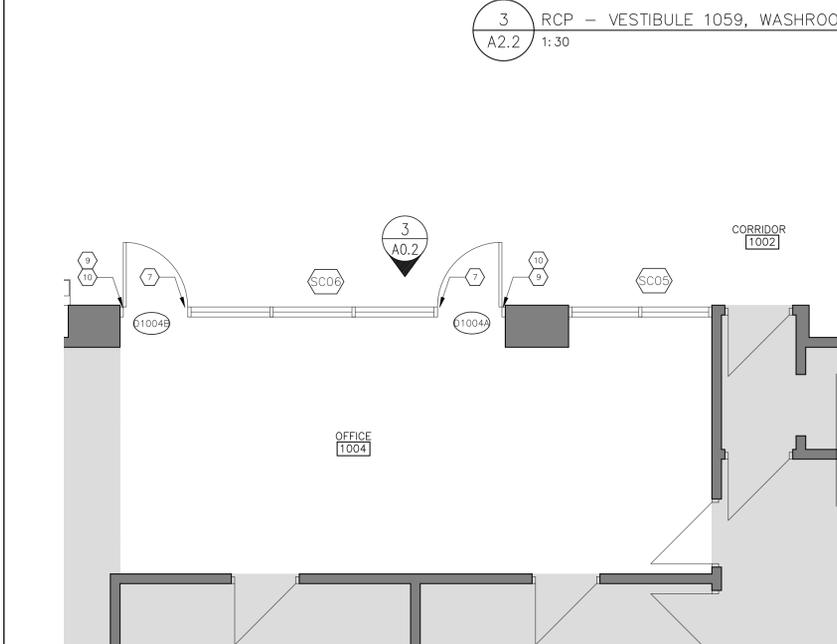
7 DEMOLITION PLAN - OFFICE 1004
A2.2 1:50



2 FLOOR PLAN - WASHROOMS 1059A & 1059B
A2.2 1:30



1 DEMOLITION PLAN - WASHROOMS 1059A & 1059B
A2.2 1:30



8 PROPOSED PLAN - OFFICE 1004
A2.2 1:50

DEMOLITION KEY NOTES

- NOTE: ALL KEYNOTES MAY NOT BE USED
- (D1) REMOVE EX. DOOR, FRAME & ALL ASSOCIATED ITEMS. PATCH & REPAIR ALL DISTURBED ADJACENT SURFACES. SAW CUT EX. BLOCK EDGE TO ALLOW FOR CLEAN-EDGED BLOCK INFILL.
 - (D2) CAREFULLY REMOVE EX. GLAZED BLOCKS & SALVAGE FOR PATCHING. SAW CUT EX. BLOCK TO PREPARE TO ACCEPT NEW DOOR AND FRAME.
 - (D3) CUT & REMOVE EX. TERRAZZO CURB AND PREPARE FOR TERRAZZO FLOOR PATCH TO MATCH FLUSH WITH EXISTING.
 - (D4) REMOVE EXIST. LOCKERS, PATCH & REPAIR THE ADJACENT SURFACES.
 - (D5) REMOVE EXIST. PLUMBING FIXTURES, GRAB BARS & ALL OTHER ASSOCIATED ITEMS.
 - (D6) REMOVE EXIST. TOILET PARTITIONS, DOORS AND ALL ASSOCIATED ITEMS.
 - (D7) GRIND AND POLISH EX. FLOOR FINISHES, PATCH AND REPAIR DAMAGED SURFACES TO MATCH EX.
 - (D8) REMOVE EXIST. CEILING & LIGHT FIXTURES.
 - (D9) REMOVE EXIST. PLYWOOD PANELS ON THE FLOOR & WALL. PATCH AND REPAIR DAMAGED SURFACES.
 - (D10) EX. HYDRONIC CONVECTOR TO BE REMOVED. SEE MECH.
 - (D11) CUT & PATCH FLOOR AS REQUIRED TO ACCOMMODATE PLUMBING. SEE MECH. RESTORE TERRAZZO FLOOR FINISH TO MATCH EX. FLOOR.

GENERAL DEMOLITION NOTES

1. LOCATE DOOR FRAMES 50mm FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
2. PATCH AND MAKE GOOD AT ALL JUNCTION OF NEW AND EXISTING WORK.

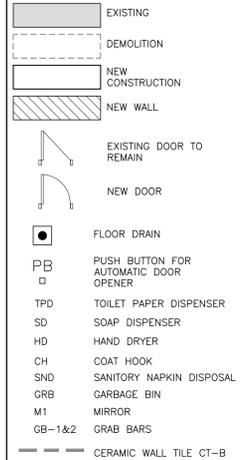
PLAN GENERAL NOTES

1. NEW CEILING HEIGHTS TO MATCH WITH EXISTING CEILING HEIGHTS UNLESS OTHERWISE NOTED.

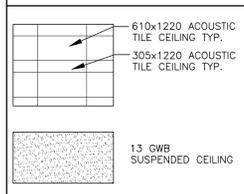
PLAN KEY NOTES

- (1) NEW LINTEL AS PER TABLE
- (2) PATCH & REPAIR WALL W/ SALVAGED GLAZED BLOCK WHERE FIXTURES WERE REMOVED. (TYPICAL TO ALL LOCATIONS).
- (3) PROVIDE CONTINUOUS PAINTED 175X63X3 STEEL ANGLE TRIM AT WALL OPENING.
- (4) NEW TOILET. SEE MECH.
- (5) INSTALL CERAMIC WALL TILES CT-B.
- (6) INSTALL WRAPAROUND DOOR FRAMES TO COVER EXPOSED WALL EDGES.
- (7) PROVIDE TERRAZZO FLOOR PATCHING TO MATCH ADJACENT EX. FLOOR
- (8) REVISE HARDWARE TO WASHROOM PRIVACY LOCKSET
- (9) SIGNAGE: DOOR FRAME TAG / TYPE 3
- (10) SIGNAGE: ROOM I.D. / TYPE 6-15

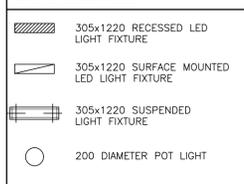
PLAN LEGEND



RCP LEGEND



LIGHTING LEGEND



CURRAN | GAGESA | SLOTE ARCHITECTS
TEL: 905-297-8963
118 JAMES ST. NORTH, SUITE 301, HAMILTON, ONTARIO L8R 2K7
CGS

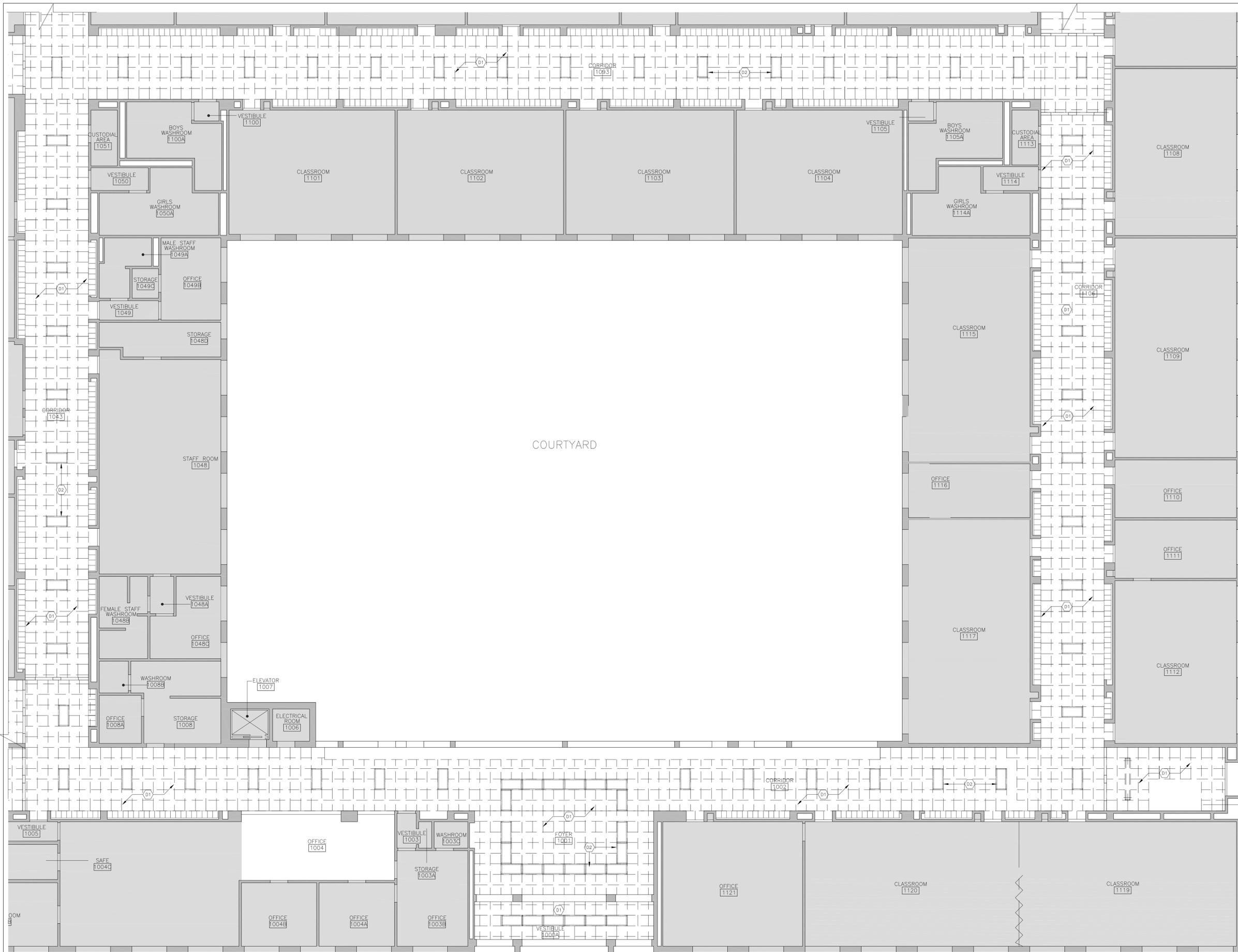
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Corridor Ceiling and Accessibility Renovations at
HWDSB Orchard Park SS
200 Dewitt Road,
Stoney Creek, Ontario

Dwg. Title:
Demolition Plan & Proposed Plan - BF Washroom & Single Occupancy Washroom & Details
Drwn: WJC Chkd: WJC
Proj. No.: 24014
Scale: As noted
Date: 09/17/2024

Drawing No.:
A2.2



DEMOLITION KEY NOTES

NOTE: ALL KEYNOTES MAY NOT BE USED

(D1) REMOVE EXISTING ACT, CEILING GRIDS AND ALL ASSOCIATED ITEMS.

(D2) REMOVE EXISTING LIGHTING FIXTURES AND DISPOSE. COORDINATE WITH ELECTRICAL.

(D3) REMOVE EXISTING CEILING MOUNTED EMERGENCY LIGHTING. COORDINATE WITH ELECTRICAL.

(D4) REMOVE EXISTING DIFFUSERS AND SPEAKERS AND DISPOSE TO REPLACE WITH NEW. COORDINATE WITH MECHANICAL AND ELECTRICAL.

GENERAL DEMOLITION NOTES

1. PATCH AND MAKE GOOD AT ALL JUNCTION OF NEW AND EXISTING WORK.

PLAN GENERAL NOTES

1. NEW CEILING HEIGHTS TO MATCH WITH EXISTING CEILING HEIGHTS UNLESS OTHERWISE NOTED.

PLAN LEGEND

EXISTING
 DEMOLITION
 NEW CONSTRUCTION
 NEW WALL

RCP LEGEND

610x1220 ACOUSTIC TILE CEILING TYP.
 305x1220 ACOUSTIC TILE CEILING TYP.
 16mm GYPSUM CEILING

EXISTING TO REMAIN INCLUDING FIXTURES, UNO

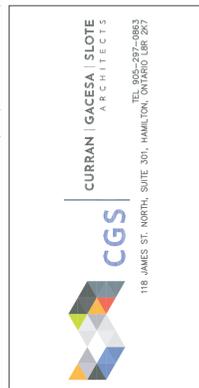
ELEVATION TAG

LIGHTING LEGEND

305x1220 RECESSED LED LIGHT FIXTURE
 305x1220 SURFACE MOUNTED LED LIGHT FIXTURE
 305x1220 SUSPENDED LIGHT FIXTURE
 200 DIAMETER POT LIGHT

MECHANICAL LEGEND

EX. DIFFUSER
 SUPPLY REGISTER
 RETURN AIR GRILLE
 EXIST. RETURN AIR GRILLE
 EXHAUST FAN
 2'x2' DIFFUSER
 NEW SOFFIT VENT FROM WASHROOM
 1'x4' LINEAR DIFFUSER
 CURVICUE CABLE
 HOSE BB
 GAS OUTLET/VALVE



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| 1 | 2024.09.30 | Issued for Coordination |

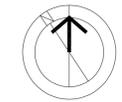
Corridor Ceiling and Accessibility Renovations at HWDSB Orchard Park SS
 200 Dewitt Road,
 Stoney Creek, Ontario

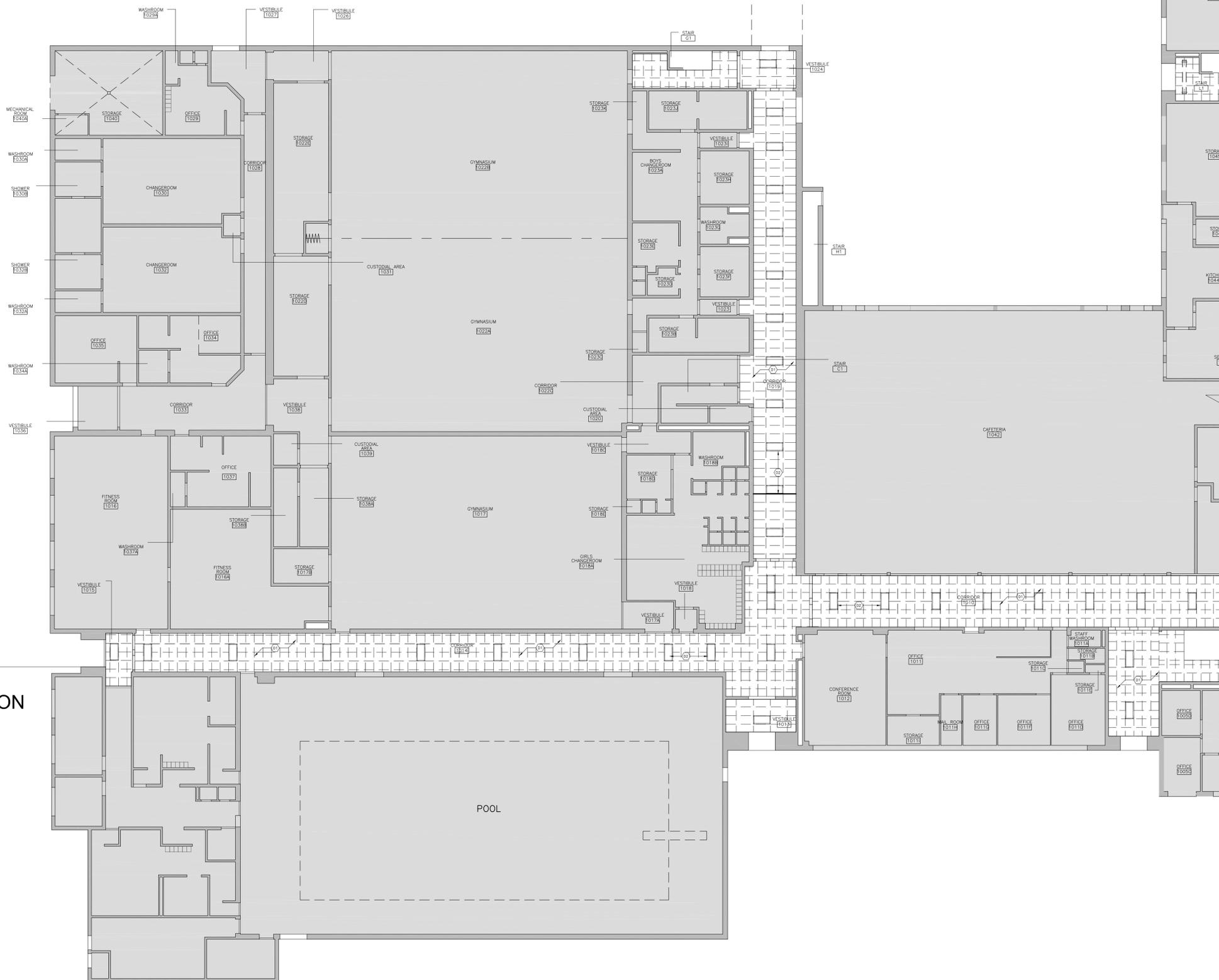
Dwg. Title:
Partial Demolition Reflected Ceiling Plan - First Floor

Drwn: Chkd: WJC
 Proj. No.: 24014
 Scale: As noted
 Date: 09/17/2024

Drawing No.:
A2.3

1 PARTIAL DEMOLITION REFLECTED CEILING PLAN - FIRST FLOOR
 A2.3 1:100





DEMOLITION KEY NOTES

- NOTE: ALL KEYNOTES MAY NOT BE USED
- D1 REMOVE EXISTING ACT, CEILING GRIDS AND ALL ASSOCIATED ITEMS.
 - D2 REMOVE EXISTING LIGHTING FIXTURES AND DISPOSE. COORDINATE WITH ELECTRICAL.
 - D3 REMOVE EXISTING CEILING MOUNTED EMERGENCY LIGHTING, COORDINATE WITH ELECTRICAL.
 - D4 REMOVE EXISTING DIFFUSERS AND SPEAKERS AND DISPOSE TO REPLACE WITH NEW. COORDINATE WITH MECHANICAL AND ELECTRICAL.

GENERAL DEMOLITION NOTES

1. PATCH AND MAKE GOOD AT ALL JUNCTION OF NEW AND EXISTING WORK.

PLAN GENERAL NOTES

1. NEW CEILING HEIGHTS TO MATCH WITH EXISTING CEILING HEIGHTS UNLESS OTHERWISE NOTED.

PLAN LEGEND

- EXISTING
- DEMOLITION
- NEW CONSTRUCTION
- NEW WALL

RCP LEGEND

- 610x1220 ACOUSTIC TILE CEILING TYP.
- 305x1220 ACOUSTIC TILE CEILING TYP.
- 16mm GYPSUM CEILING
- EXISTING TO REMAIN INCLUDING FIXTURES, UNO
- ELEVATION TAG

LIGHTING LEGEND

- 305x1220 RECESSED LED LIGHT FIXTURE
- 305x1220 SURFACE MOUNTED LED LIGHT FIXTURE
- 305x1220 SUSPENDED LIGHT FIXTURE
- 200 DIAMETER POT LIGHT

MECHANICAL LEGEND

- EX. DIFFUSER
- SUPPLY REGISTER
- RETURN AIR GRILLE
- EXIST. RETURN AIR GRILLE
- EXHAUST FAN
- 2'X2' DIFFUSER
- NEW SOFFIT VENT FROM WASHROOM
- 1'X4' LINEAR DIFFUSER
- CURLICUE CABLE
- HOSE BIB
- GAS OUTLET/VALVE

CURRAN | GACESA | SLOTE
ARCHITECTS

CGS

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| 1 | 2024.09.30 | Issued for Coordination |

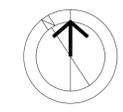
Corridor Ceiling and Accessibility Renovations at HWDSB Orchard Park SS
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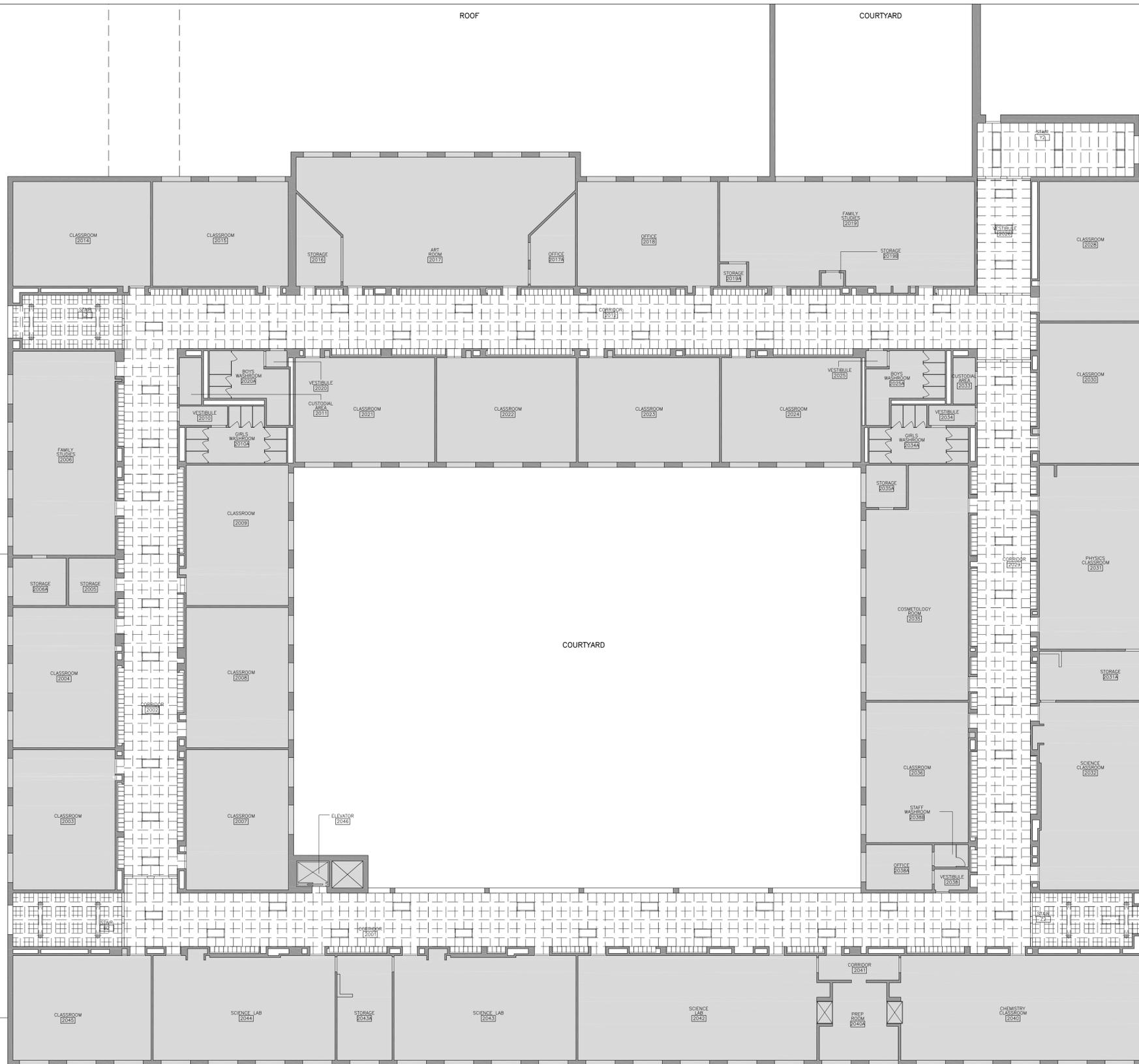
Dwg. Title:
Partial Demolition Reflected Ceiling Plan - Ground Floor

Drwn: _____ Chkd: WJC
 Proj. No.: 24014
 Scale: As noted
 Date: 09/17/2024

Drawing No.:
A2.5

1 PARTIAL DEMOLITION REFLECTED CEILING PLAN - GROUND FLOOR
 1:150





DEMOLITION KEY NOTES

- NOTE: ALL KEYNOTES MAY NOT BE USED
- D1 REMOVE EXISTING ACT, CEILING GRIDS AND ALL ASSOCIATED ITEMS.
 - D2 REMOVE EXISTING LIGHTING FIXTURES AND DISPOSE. COORDINATE WITH ELECTRICAL.
 - D3 REMOVE EXISTING CEILING MOUNTED EMERGENCY LIGHTING. COORDINATE WITH ELECTRICAL.
 - D4 REMOVE EXISTING DIFFUSERS AND SPEAKERS AND DISPOSE TO REPLACE WITH NEW. COORDINATE WITH MECHANICAL AND ELECTRICAL.

PLAN LEGEND

- EXISTING
- DEMOLITION
- NEW CONSTRUCTION
- NEW WALL

RCP LEGEND

- 2'x2' ACT CEILING
- 2'x4' ACT CEILING
- 1'x4' ACT CEILING
- EXISTING TO REMAIN INCLUDING FIXTURES, UNO
- ELEVATION TAG

LIGHTING LEGEND

- 305X1220 SUSPENDED FIXTURE
- 305X1220 SURFACE MOUNTED FIXTURE
- 305X1220 RECESSED FIXTURE
- 610X1220 RECESSED FIXTURE
- 610X610 RECESSED
- SURFACE MOUNTED LIGHT
- POT LIGHT
- DECORATIVE PENDANT

MECHANICAL LEGEND

- EX. DIFFUSER
- SUPPLY REGISTER
- RETURN AIR GRILLE
- EXIST. RETURN AIR GRILLE
- EXHAUST FAN
- 2'X2' DIFFUSER
- NEW SOFFIT VENT FROM WASHROOM
- 1'X4' LINEAR DIFFUSER
- CURLUCUE CABLE
- HOSE BIB
- GAS OUTLET/VALVE

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| 1 | 2024.09.30 | Issued for Coordination |

Corridor Ceiling and Accessibility Renovations at HWDSB Orchard Park SS
 200 Dewitt Road,
 Stoney Creek, Ontario

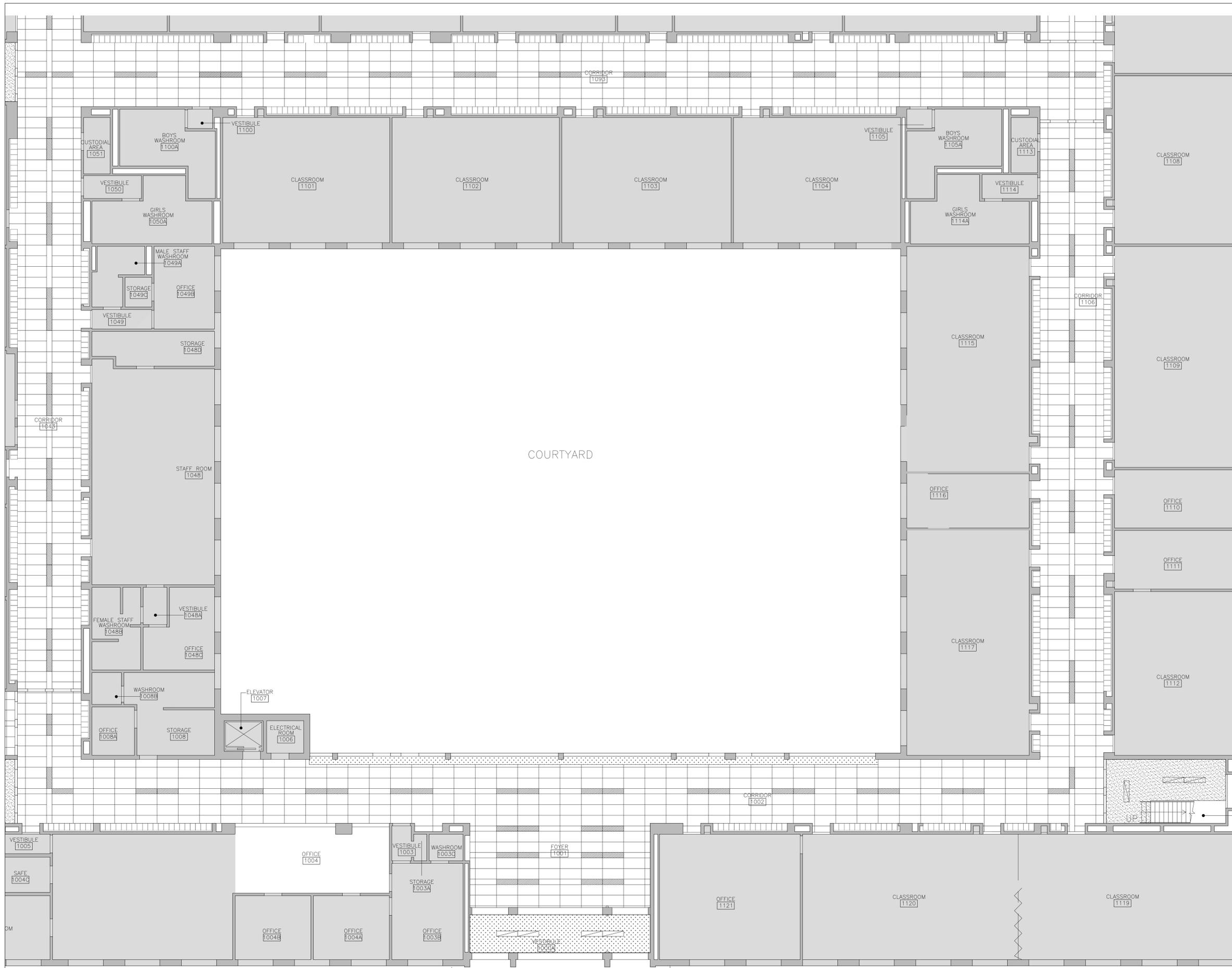
Dwg. Title:
Demolition Reflected Ceiling Plan - Second Floor

Drwn: Chkd: WJC
 Proj. No.: 24014
 Scale: As noted
 Date: 09/17/2024

Drawing No.:
A2.6

1 DEMOLITION REFLECTED CEILING PLAN - SECOND FLOOR
 A2.6 1:150





PLAN GENERAL NOTES

- PATCH AND MAKE GOOD AT ALL JUNCTION OF NEW AND EXISTING WORK.
- NEW CEILING HEIGHTS TO MATCH WITH EXISTING CEILING HEIGHTS UNLESS OTHERWISE NOTED.

PLAN KEY NOTES

PLAN LEGEND

- EXISTING
- DEMOLITION
- NEW CONSTRUCTION
- NEW WALL

RCP LEGEND

- 610x1220 ACOUSTIC TILE CEILING TYP.
- 305x1220 ACOUSTIC TILE CEILING TYP.
- 16 TYPE 'X' GWB SUSPENDED CEILING 50 MINUTES FIRE RESISTANCE RATING
- 13 GWB SUSPENDED CEILING

EXISTING TO REMAIN INCLUDING FIXTURES, LINO

- ELEVATION TAG

LIGHTING LEGEND

- 305x1220 RECESSED LED LIGHT FIXTURE
- 305x1220 SURFACE MOUNTED LED LIGHT FIXTURE
- 305x1220 SUSPENDED LED LIGHT FIXTURE
- 200 DIAMETER POT LIGHT

MECHANICAL LEGEND

- EX. DIFFUSER
- SUPPLY REGISTER
- RETURN AIR GRILLE
- EXIST. RETURN AIR GRILLE
- EXHAUST FAN
- 2'x2' DIFFUSER
- NEW SOFFIT VENT FROM WASHROOM
- 1'x4' LINEAR DIFFUSER
- CURLICUE CABLE
- HOSE BIB
- GAS OUTLET/VALVE

CURRAN | GACESA | SLOTE ARCHITECTS
CGS
 118 JAMES ST. NORTH, SUITE 301, HAMILTON, ONTARIO L8R 2K7

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
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 NOTE: DRAWINGS ARE NOT TO BE SCALED.

| No. | Date | Remarks |
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| 5 | 2025.01.24 | Issued for Tender |
| 4 | 2024.12.18 | Issued for Building Permit |
| 3 | 2024.12.10 | Issued for Coordination |
| 2 | 2024.11.04 | Issued for Coordination |
| 1 | 2024.09.30 | Issued for Coordination |

Corridor Ceiling and Accessibility Renovations at HWDSB Orchard Park SS
 200 Dewitt Road,
 Stoney Creek, Ontario

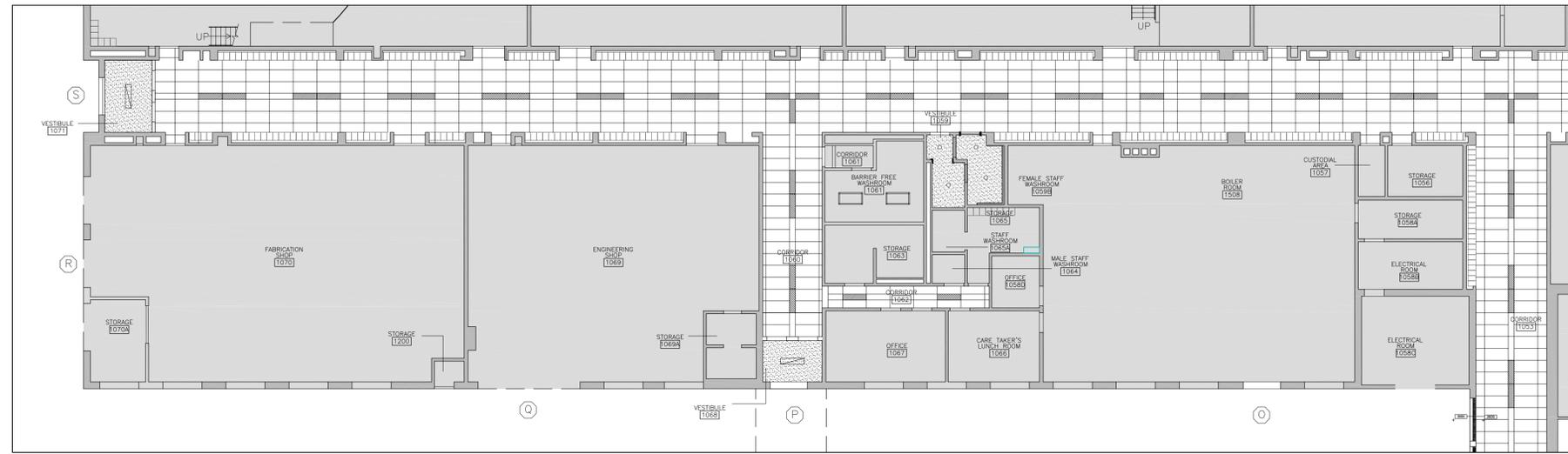
Dwg. Title:
Proposed Reflected Ceiling Plan - First Floor

Drwn: Chkd: WJC
 Proj. No.: 24014
 Scale: As noted
 Date: 09/17/2024

Drawing No.:
A2.7

1 PROPOSED PARTIAL REFLECTED CEILING PLAN - FIRST FLOOR
 A2.7 1:100





2 PROPOSED PARTIAL REFLECTED CEILING PLAN – FIRST FLOOR
A2.8 1:150



1 PROPOSED PARTIAL REFLECTED CEILING PLAN – FIRST FLOOR
A2.8 1:150

PLAN GENERAL NOTES

- PATCH AND MAKE GOOD AT ALL JUNCTION OF NEW AND EXISTING WORK.
- NEW CEILING HEIGHTS TO MATCH WITH EXISTING CEILING HEIGHTS UNLESS OTHERWISE NOTED.

PLAN KEY NOTES

PLAN LEGEND

- EXISTING
- DEMOLITION
- NEW CONSTRUCTION
- NEW WALL

RCP LEGEND

- 610x1220 ACOUSTIC TILE CEILING TYP.
- 305x1220 ACOUSTIC TILE CEILING TYP.
- 13 GWB SUSPENDED CEILING
- EXISTING TO REMAIN INCLUDING FIXTURES, UNO
- ELEVATION TAG

LIGHTING LEGEND

- 305x1220 RECESSED LED LIGHT FIXTURE
- 305x1220 SURFACE MOUNTED LED LIGHT FIXTURE
- 305x1220 SUSPENDED LIGHT FIXTURE
- 200 DIAMETER POT LIGHT

MECHANICAL LEGEND

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- GAS OUTLET/VALVE

CURRAN | GACESA | SLOTE ARCHITECTS
CGS
118 JAMES ST. NORTH, SUITE 301, HAMILTON, ONTARIO L8R 2K7
TEL: (905) 577-2867

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Corridor Ceiling and Accessibility Renovations at HWDSB Orchard Park SS
200 Dewitt Road, Stoney Creek, Ontario

Dwg. Title:
Proposed Reflected Ceiling Plan - First Floor

Drwn: Chkd: WJC
Proj. No.: 24014
Scale: As noted
Date: 09/17/2024

Drawing No.:
A2.8





PLAN GENERAL NOTES

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PLAN KEY NOTES

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- DEMOLITION
- NEW CONSTRUCTION
- NEW WALL

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- 305x1220 ACOUSTIC TILE CEILING TYP.
- 13 GWB SUSPENDED CEILING
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LIGHTING LEGEND

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Corridor Ceiling and Accessibility Renovations at HWDSB Orchard Park SS
 200 Dewitt Road,
 Stoney Creek, Ontario

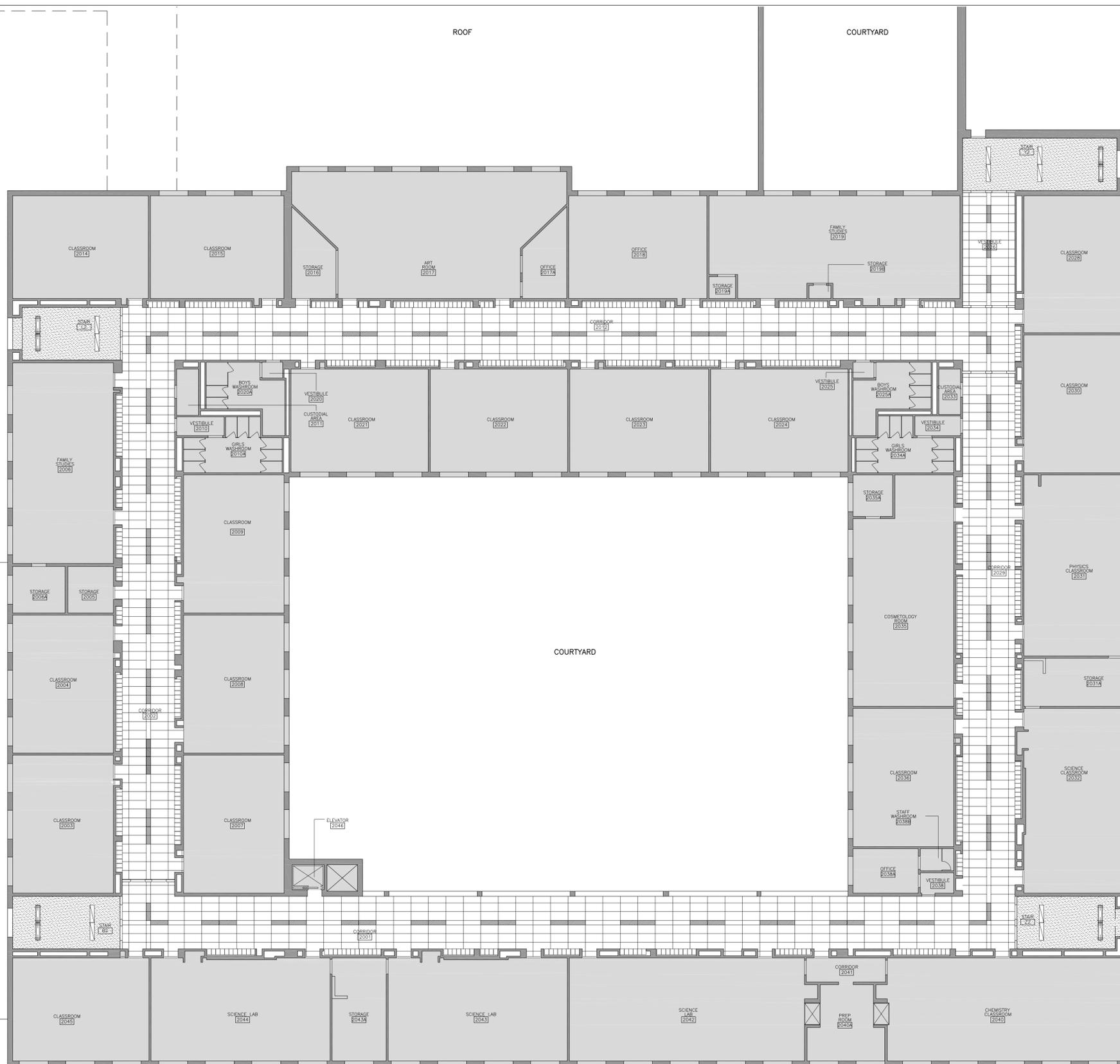
Dwg. Title:
Proposed Reflected Ceiling Plan First Floor

Drwn: Chkd: WJC
 Proj. No.: 24014
 Scale: As noted
 Date: 09/17/2024

Drawing No.:
A2.9

1 PROPOSED PARTIAL REFLECTED CEILING PLAN - GROUND FLOOR
 A2.9 1:150





PLAN GENERAL NOTES

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PLAN KEY NOTES

PLAN LEGEND

- EXISTING
- DEMOLITION
- NEW CONSTRUCTION
- NEW WALL

RCP LEGEND

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- 305x1220 ACOUSTIC TILE CEILING TYP.
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- EXISTING TO REMAIN INCLUDING FIXTURES, UNO
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Corridor Ceiling and Accessibility Renovations at HWDSB Orchard Park SS
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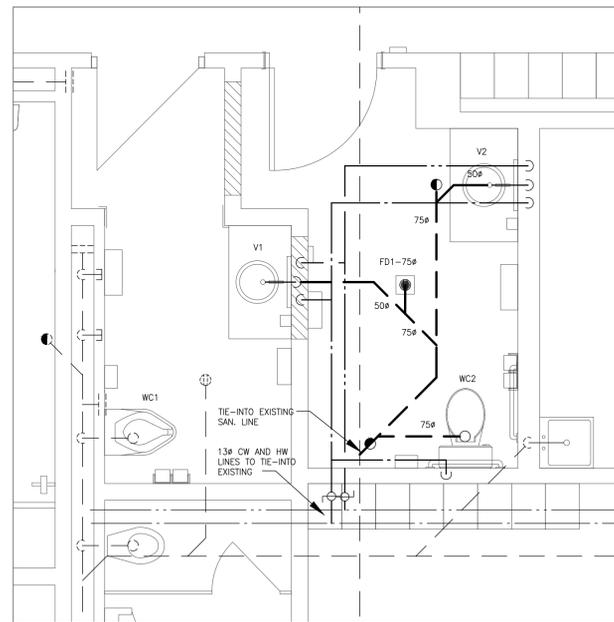
Dwg. Title:
Proposed Reflected Ceiling Plan-Second Floor

Drwn: Chkd: WJC
 Proj. No.: 24014
 Scale: As noted
 Date: 09/17/2024

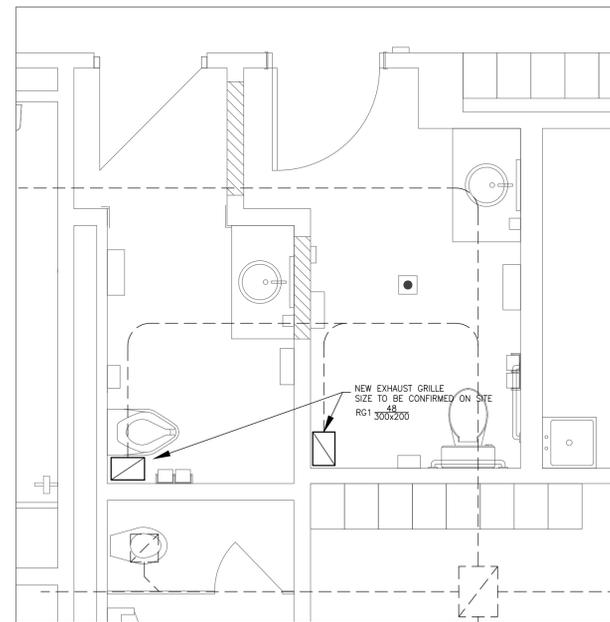
Drawing No.:
A2.10

1 PROPOSED REFLECTED CEILING PLAN - SECOND FLOOR
 A2.10 1:150



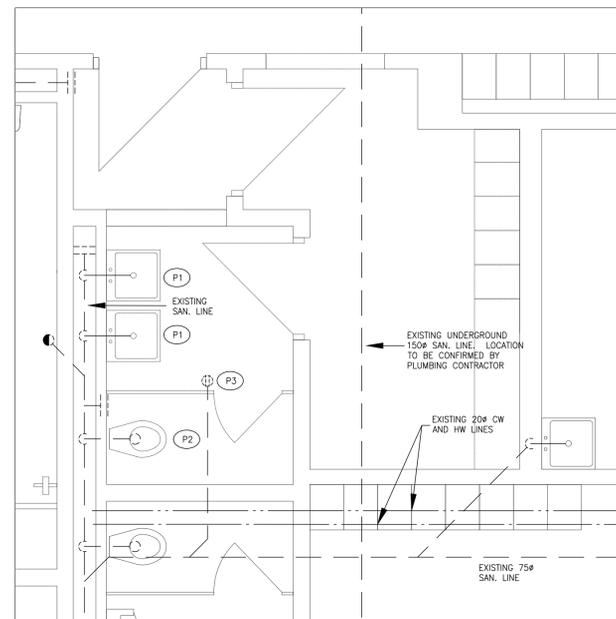


2 PLUMBING RENOVATION-WASHROOMS 1059A & 1059B
M1-1 1:30



4 HVAC RENOVATION-WASHROOMS 1059A & 1059B
M1-1 1:30

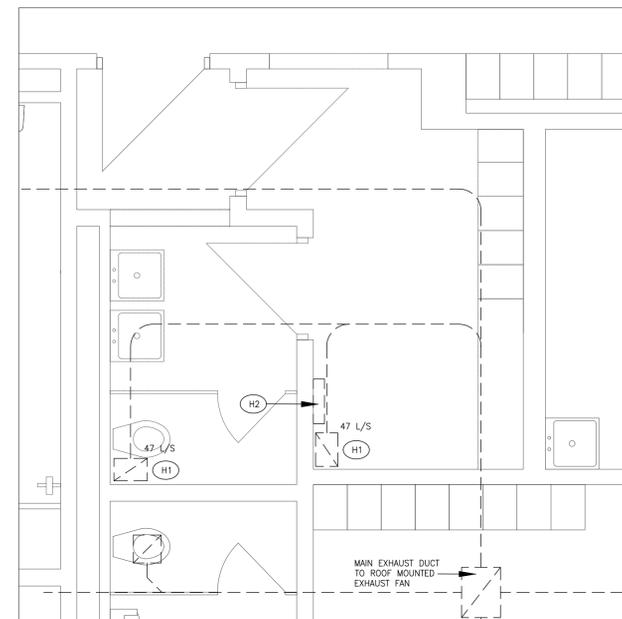
| HVAC LEGEND | |
|-------------|--|
| SYMBOL | DESCRIPTION |
| (Symbol) | NEW EQUIPMENT |
| (Symbol) | EQUIPMENT TO REMAIN |
| (Symbol) | EQUIPMENT TO BE REMOVED |
| (Symbol) | EQUIPMENT TO BE RELOCATED |
| (Symbol) | DUCTING TO BE CAPPED |
| (Symbol) | SUPPLY DUCT |
| (Symbol) | EXHAUST/RETURN DUCT |
| (Symbol) | SUPPLY DIFFUSER |
| (Symbol) | SUPPLY DIFFUSER WITH BLANK SIDE |
| (Symbol) | SUPPLY REGISTER (WALL/SIDE DUCT MOUNTED) |
| (Symbol) | CEILING/FLOOR SUPPLY REGISTER |
| (Symbol) | ROUND DIFFUSER |
| (Symbol) | EXHAUST/RETURN GRILLE |
| (Symbol) | DIFFUSER/GRILLE DATA: A-REF, 2-L/S, 3-MM |
| (Symbol) | FLEXIBLE DUCT |
| (Symbol) | VOLUME CONTROL DAMPER |
| (Symbol) | SPLITTER DAMPER |
| (Symbol) | FIRE DAMPER |
| (Symbol) | SMOKE FIRE DAMPER |
| (Symbol) | EXHAUST FAN |
| (Symbol) | THERMOSTAT |
| (Symbol) | THERMOSTAT COVER |
| (Symbol) | VARIABLE SPEED CONTROLLER |
| (Symbol) | OPPOSED BLADE MOTORIZED DAMPER |
| (Symbol) | ACOUSTIC LINING |
| (Symbol) | FLEXIBLE CONNECTION |
| (Symbol) | TRANSFER AIR ELBOW ACOUSTICALLY LINED |
| (Symbol) | ELECTRIC FAN FORCED HEATER-BY MECHAN. DIV. |
| (Symbol) | ELECTRIC BASEBOARD HEATER-BY MECHAN. DIV. |



1 PLUMBING DEMOLITION-WASHROOMS 1059A & 1059B
M1-1 1:30

WASHROOM - PLUMBING DEMOLITION NOTES

- 1 REMOVE WALL MOUNTED LAVATORIES. OBSOLETE PLUMBING LINES SHALL BE CUTBACK AND CAPPED IN WALL.
- 2 REMOVE WALL MOUNTED WATER CLOSET AND EXPOSED FLUSH VALVE. REWORK PLUMBING LINES TO FACILITATE THE INSTALLATION OF A NEW WATER CLOSET AND FLUSH VALVE.
- 3 REMOVE FLOOR DRAIN STRAINER AND INSTALL NEW NICKEL BRONZE TYPE TO SUIT FLOOR DRAIN. READJUST STRAINER AS REQUIRED.



3 HVAC DEMOLITION-WASHROOMS 1059A & 1059B
M1-1 1:30

WASHROOM - HVAC DEMOLITION NOTES

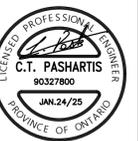
- 1 REMOVE CEILING MOUNTED EXHAUST GRILLE AND REPLACE WITH NEW. REWORK DUCTING TO ACCOMMODATE INSTALLATION OF NEW GRILLE.
- 2 REMOVE HYDRONIC HEATING CONNECTOR. CUTBACK AND CAP HYDRONIC SUPPLY AND RETURN LINES IN WALL.

| PLUMBING LEGEND | |
|-----------------|------------------------------|
| SYMBOL | DESCRIPTION |
| (Symbol) | NEW LINES |
| (Symbol) | EXISTING LINES (THIN LINE) |
| (Symbol) | EQUIPMENT TO BE REMOVED |
| (Symbol) | EQUIPMENT TO BE RELOCATED |
| (Symbol) | EQUIPMENT TO BE REMOVED |
| (Symbol) | CAPPED LINE |
| (Symbol) | PIPE RISE |
| (Symbol) | PIPE DROP |
| (Symbol) | SANITARY LINE BELOW GRADE |
| (Symbol) | SANITARY LINE ABOVE GRADE |
| (Symbol) | STORM LINE BELOW GRADE |
| (Symbol) | STORM LINE ABOVE GRADE |
| (Symbol) | COLD WATER CW |
| (Symbol) | HOT WATER HW |
| (Symbol) | HOT WATER REDCIRCULATION HWR |
| (Symbol) | TEMPERED HOT WATER |
| (Symbol) | CONDENSATE LINE |
| (Symbol) | HEATING WATER SUPPLY |
| (Symbol) | HEATING WATER RETURN |
| (Symbol) | FLOOR DRAIN |
| (Symbol) | HUB DRAIN |
| (Symbol) | FLOOR CLEANOUT |
| (Symbol) | LINE CLEANOUT |
| (Symbol) | GATE VALVE |
| (Symbol) | BALL VALVE |
| (Symbol) | BUTTERFLY VALVE |
| (Symbol) | GLOBE VALVE |
| (Symbol) | CHECK VALVE |
| (Symbol) | BACKFLOW PREVENTOR |

| NO. | DATE | REVISION |
|-----|-----------|-------------------|
| 2 | JAN.24/25 | ISSUED FOR TENDER |
| 1 | DEC.19/24 | ISSUED FOR PERMIT |

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR DURING THE COURSE OF WORK.

CoPa ENGINEERING LTD.



29 ROLLING ACRES DR.
KITCHENER, ONTARIO
N2A 3W5
TEL. (519) 894-0022

PROJECT
**ORCHARD PARK
SECONDARY SCHOOL
Corridor Ceiling and Accessibility Renovations**
200 DEWITT ROAD
STONE CREEK ONTARIO

DRAWING
**STAFF AND BARRIER-FREE WASHROOM
MECHANICAL LAYOUTS**

DRAWN BY: C. P. SCALE: 1:30

CHECKED BY: C. PASHARTIS DATE: DECEMBER 19, 2024

PROJECT NO. 24CP059 DRAWING NO. M1-1

GENERAL NOTES:

- 1. ANY COMBUSTIBLE MATERIALS INSTALLED IN THE CEILING SPACE USED AS A RETURN AIR FLENUM, SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50. PLUMBING AND HVAC CONTRACTORS SHALL COORDINATE WITH ALL OTHER TRADES.
2. WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR FLENUM, ALL WIRING FOR CONTROL, TELEPHONE, DATA SECURITY, SPEAKER WIRE ETC., SHALL BE CTO, CM, WPP OR FLENUM VERIFIED.
3. THE SPECIFIED MANUFACTURERS MEANS THAT THE ITEM NAMED AND SPECIFIED, FORMS PART OF SPECIFICATION AND SETS STANDARD REGARDING PERFORMANCE, QUALITY OF MATERIAL AND WORKMANSHIP. ALTERNATE MANUFACTURERS WILL BE CONSIDERED AND ACCEPTED AS EQUAL PROVIDED THEY MEET THE STANDARD SPECIFIED.

MECHANICAL GENERAL REQUIREMENTS

- 1. DESCRIPTION OF WORK
1.1 THE MECHANICAL CONTRACTOR SHALL FURNISH ALL LABOUR, MATERIAL, TOOLS, EQUIPMENT, SUPERVISION AND OTHER SERVICES AS MAY BE REQUIRED TO EXECUTE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
2. SITE EXAMINATION
1. BEFORE SUBMITTING TENDERS, CAREFULLY EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS HAVING A BEARING ON THE WORK. VISIT THE EXISTING BUILDING AND THOROUGHLY ASCERTAIN THE EXTENT AND NATURE OF ALL CONDITIONS AFFECTING THE PERFORMANCE OF WORK.
3. CODES AND STANDARDS
1. THE INSTALLATION SHALL COMPLY WITH THE LATEST EDITIONS AND ALL AMENDMENTS OF THE FOLLOWING CODES AND STANDARDS. WHERE CONFLICTS IN REQUIREMENTS OCCUR, THE HIGHER STANDARDS WILL APPLY: ONTARIO BUILDING CODE, ONTARIO FIRE CODE, N.F.P.A., ASHRAE, NATURAL GAS INSTALLATION STANDARD CSA-B149.1 AND LOCAL CODES, STANDARDS AND BY-LAWS.
4. REGULATIONS, PERMITS, FEES, CONNECTION CHARGES AND CERTIFICATES
1. ALL MATERIALS AND WORKMANSHIP SHALL MEET ALL PRINCIPAL BUILDING, MUNICIPAL, N.F.P.A., AND FIRE MARSHAL REGULATIONS, CODES AND BYLAWS IN FORCE IN THE AREA OF THE PROJECT.
2. EACH CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY FOR ALL FEES AND CONNECTION CHARGES FOR ALL SERVICES PROVIDED BY THIS DIVISION.
5. COOPERATION OF TRADES
1. READ SPECIFICATIONS AND DRAWINGS OF OTHER TRADES AND CONFORM WITH THEIR REQUIREMENTS BEFORE PROCEEDING WITH ANY WORK SPECIFIED IN THIS DIVISION RELATED TO OTHER TRADES.
6. DRAWINGS
1. CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF THE MECHANICAL SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
2. WHERE THE EXACT LOCATIONS OF FIXTURES AND EQUIPMENT ARE NOT DEFINITELY ESTABLISHED, THE CONTRACTOR SHALL OBTAIN THIS INFORMATION FROM THE OWNER AND ENGINEER.
7. REMOVAL OF EXISTING EQUIPMENT
1. EXAMINE THE EXISTING BUILDING AND INCLUDE IN TENDER PRICE ALL NECESSARY ALLOWANCES TO REMOVE EXISTING EQUIPMENT AS DETAILED ON DRAWINGS AND AS DIRECTED BY THE GENERAL CONTRACTOR.
2. MATERIALS REMOVED BY THIS DIVISION SHALL BECOME CONTRACTOR'S PROPERTY AND BE REMOVED FROM WORK SITE, PROVIDED:
1.1 THE ITEMS HAVE BEEN INSPECTED BY THE OWNER AND GENERAL CONTRACTOR AND RELEASED FOR REMOVAL.
1.2 ITEMS HAVE NOT BEEN DESIGNATED FOR REUSE IN OTHER SECTIONS OF SPECIFICATIONS OR DRAWINGS.
8. ALTERATION OF EXISTING
1. PRIOR TO REMOVAL AND ALTERATION OF THE EXISTING SYSTEMS, THE CONTRACTOR SHALL IDENTIFY TO THE ENGINEER AT WHICH SECTIONS OF THE EXISTING MECHANICAL EQUIPMENT, PIPING AND DUCTWORK SHALL BE CUT BACK AND REMOVED.
2. RELOCATE EXISTING MECHANICAL APPURTENANCES AS SPECIFICALLY INDICATED ON DRAWINGS OR SPECIFIED AND AS REQUIRED TO SUIT ALTERATION WORK. CLEAN RELOCATED EQUIPMENT AND INSTALL IN NEW LOCATION, IN A NEAT ORDERLY MANNER WITH SAME ATTENTION AS GIVEN TO NEW EQUIPMENT. WHERE EXISTING MATERIAL OR EQUIPMENT IS NO LONGER REQUIRED, SHALL BE CUT BACK AND MAKE GOOD TO SATISFACTION OF THE ENGINEER. WHEN EXISTING MATERIAL OR EQUIPMENT IS DISCONNECTED OR DISASSEMBLED TO FACILITATE RELOCATION, REINSTALL AS ORIGINAL, INCLUDING ADDITIONAL INSULATION, ELECTRICAL WORK ETC.
3. WHERE EXISTING MATERIAL OR EQUIPMENT IS DAMAGED, MAKE GOOD TO THE SATISFACTION OF ENGINEER. IF IT IS FOUND IN AN UNSUITABLE CONDITION, NOTIFY ENGINEER FOR INSTRUCTIONS.
4. OBTAIN WRITTEN AUTHORIZATION FROM ENGINEER FOR ALTERATION WORK THAT IS NOT SPECIFICALLY CALLED FOR OR CLEARLY INDICATED ON DRAWINGS.
9. PROTECTION OF OPENINGS
1.1 PROTECT EQUIPMENT AND SYSTEMS OPENINGS FROM DIRT, DUST, AND OTHER FOREIGN MATERIALS.
1.2 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF HIS OWN AND OTHER SUBCONTRACTORS FROM DAMAGE DUE TO CARRYING OUT HIS WORK. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF ALL MATERIALS AND EQUIPMENT SUPPLIED UNDER THIS CONTRACT OR REMOVED FROM EXISTING BUILDING FOR REUSE AND SHALL PROVIDE ALL NECESSARY PROTECTION FOR SAME. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF THE WORK OF THIS SECTION, UNTIL THE BUILDING HAS BEEN COMPLETED AND OF SHADRAH.
10. CUTTING AND PATCHING
1. RESPONSIBILITY FOR CUTTING OF OPENINGS TO WALLS, FLOORS, ROOF AND ANY OTHER SURFACES IN THE STRUCTURE SHALL BE COORDINATED WITH GENERAL CONTRACTOR. IN ADDITION, RESPONSIBILITY FOR THE PATCHING AND FINISHING OF THESE SURFACES AND ASSEMBLIES SHALL ALSO BE COORDINATED WITH GENERAL CONTRACTOR. WORK SHALL BE PERFORMED BY THE EXPERT TRADE WHO SPECIALIZE IN THEIR WORK. IN THE EVENT THE GENERAL CONTRACTOR WILL NOT BE RESPONSIBLE FOR THIS WORK, THIS SCOPE OF WORK SHALL BE INCLUDED UNDER THE MECHANICAL CONTRACTOR.
2. BEFORE CUTTING OF OPENINGS IN THE STRUCTURE, THE CONTRACTOR SHALL IDENTIFY TO THE STRUCTURAL ENGINEER AND THE OWNER'S REPRESENTATIVE AT WHICH SECTIONS OF THE BUILDING STRUCTURE ARE TO BE CUT BACK. THE CUTTING, PATCHING AND FINISHING OF THE ASSEMBLIES RESTRICTED BY THE WORK OF THIS DIVISION SHALL BE PERFORMED BY THE AFFECTED/EXPERT TRADE.
3. UNDER NO CIRCUMSTANCES SHALL ANY CUTTING OR BURNING OF THE STRUCTURE BE UNDERTAKEN WITHOUT THE WRITTEN AUTHORITY OF THE ENGINEER.
11. EXCAVATING, BACKFILLING, COMPACTING AND FLOOR CEMENTING
1. RESPONSIBILITY FOR EXCAVATING, BACKFILLING AND COMPACTING FOR PLUMBING PIPES AND DRAINS PROVIDED BY THIS DIVISION SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL BACKFILLING SHALL BE NEW CLEAN GRANULAR FILL, INSTALLED IN SPECIFICALLY FOR THE PURPOSE OF BACKFILLING. ALL BACKFILLING SHALL BE COMPACTED AT INTERVALS OF NOT MORE THAN 4" LAYERS TO THE SATISFACTION OF THE ENGINEER. RESPONSIBILITY FOR FLOOR CEMENTING SHALL BE COORDINATED WITH GENERAL CONTRACTOR. IN THE EVENT THE GENERAL CONTRACTOR WILL NOT BE RESPONSIBLE FOR THIS WORK, THIS SCOPE OF WORK SHALL BE INCLUDED UNDER THE MECHANICAL CONTRACTOR.
12. EQUIPMENT INSTALLATION
1. ALL EQUIPMENT, FIXTURES, PIPES, INSULATION AND ASSOCIATED APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. SPACE FOR SERVICING, DISASSEMBLING OF EQUIPMENT AND COMPONENTS: PROVIDE AS RECOMMENDED BY MANUFACTURER OR AS INDICATED.
3. CONTROL PANELS, ELECTRICAL PANELS AND WIRING TERMINATION POINTS PROVIDE MINIMUM 40" CLEARANCE.
4. EQUIPMENT DRAINS: PIPE TO FLOOR DRAINS.
13. ROOF CONES AND SLEEVES
1. ROOF CONES FOR PIPES AND ROUND DUCTS PENETRATING ROOF SHALL BE SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.
2. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO SEE THAT ACCEPTABLE FLASHING ARE INSTALLED WHERE NECESSARY FOR THE WORK OF HIS TRADE. COUNTER FLASHING IS BY ROOFING CONTRACTOR AT THE EXPENSE OF THE MECHANICAL CONTRACTOR.
14. SLEEVES
1. THIS CONTRACTOR SHALL SUPPLY AND INSTALL SUITABLE SLEEVES FOR PIPING AND DUCTWORK PENETRATIONS TO THE BUILDING STRUCTURE.
2. PIPE SLEEVES: INSTALL AT POINTS WHERE PIPES PASS THROUGH MASONRY, CONCRETE OR U.L.C. FIRE RATED ASSEMBLIES AND AS INDICATED.
3. SCHEDULE 40 STEEL PIPE.
4. SLEEVES WITH ANNUAL FIN CONTINUOUSLY WELDED AT MIDPOINT.
5. SIZES: 1/4" CLEARANCE ALL AROUND, BETWEEN SLEEVE AND NON-INSULATED PIPE OR BETWEEN SLEEVE AND INSULATION.
6. TERMINATE SLEEVES FLUSH WITH SURFACE OF CONCRETE AND MASONRY WALLS AND CONCRETE FLOORS ON GRADE IN FINISHED AREAS.
7. FILL VOIDS AROUND PIPES:
1.1 WHERE SLEEVES PASS THROUGH WALLS, PROVIDE SPACE FOR FIRE STOPPING. WHERE PIPES PASS THROUGH FIRE RATED WALLS AND PARTITIONS, MAINTAIN FIRE RATING INTEGRITY.
2. ENSURE NO CONTACT BETWEEN COPPER TUBE OR PIPE AND FERROUS SLEEVE.
3. FILL FUTURE-USE SLEEVES WITH LIME PLASTER OR OTHER EASILY REMOVABLE FILLER.
4. COAT EXPOSED EXTERIOR SURFACES OF FERROUS SLEEVES WITH HEAVY APPLICATION OF ZINC RICH PAINT
15. PREPARATION FOR FIRE STOPPING
1. FIRE STOPPING MATERIALS AND INSTALLATION WITHIN ANNULAR SPACE BETWEEN PIPES, DUCTS, INSULATION AND ADJACENT FIRE SEPARATION: TO THE APPROVAL OF THE ENGINEER.
2. UNINSULATED UNHEATED PIPES NOT SUBJECT TO MOVEMENT: NO SPECIAL PREPARATION.
3. UNINSULATED HEATED PIPES SUBJECT TO MOVEMENT: WRAP WITH NON-COMBUSTIBLE SMOOTH MATERIAL TO PERMIT PIPE TO MOVE WITHOUT DAMAGING FIRE STOPPING.
4. INSULATED PIPES AND DUCTS: ENSURE INTEGRITY OF INSULATION AND VAPOUR BARRIER AT FIRE SEPARATION.
16. ESCUTCHEONS
1. PROVIDE ON EXPOSED PIPES PASSING THROUGH WALLS, PARTITIONS, FLOORS AND CEILINGS ON FINISHED AREAS.
2. CHROME OR NICKEL PLATED BRASS OR TYPE 302 STAINLESS STEEL, SPLIT PIECE TYPE WITH SET SCREWS.
3. OUTSIDE DIAMETER TO COVER OPENING OR SLEEVE.
4. INSIDE DIAMETER TO FIT AROUND FINISHED PIPE.
5. SECURE TO PIPE OR FINISHED SURFACE BUT NOT INSULATION.
17. TESTS
1. INSULATE OR CONCEAL WORK ONLY AFTER TESTING AND APPROVAL BY ENGINEER.
2. BEAR ALL COSTS IN CONNECTION WITH ALL TESTS, INCLUDING REPAIRING LEAKS, RETESTING AND MAKING GOOD.
3. PRIOR TO TESTS, ISOLATE ALL EQUIPMENT AND OTHER PARTS WHICH ARE NOT DESIGNED TO WITHSTAND TEST PRESSURES OR TEST MEDIUM.
4. PROVIDE CERTIFICATES INDICATING RESULTS OF ALL TESTS INCLUDING TEST LOSS.
5. PIPING:
1.1 PLUMBING LINES SHALL BE TESTED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
18. PIPE FLUSHING AND CLEANING
1. AFTER PRESSURE TESTS ARE COMPLETED AND APPROVED, PRIOR TO START-UP AND PLACING INTO OPERATION, FLUSH AND CLEAN OUT ALL PIPING SYSTEMS.
2. FOR DOMESTIC WATER SYSTEM, CLEAN AS PER ONTARIO BUILDING CODE AND LOCAL REQUIREMENTS.
19. ACCESS DOORS
1. SUPPLY ACCESS DOORS TO CONCEALED MECHANICAL EQUIPMENT FOR OPERATING, INSPECTING, ADJUSTING AND SERVICING.
2. ACCESS DOORS REQUIRED IN LISTED FIRE SEPARATION SHALL BEAR A ULC LABEL TO MATCH WALL CLASSIFICATION.
20. DIELECTRIC COUPLINGS
1. PROVIDE WHERE PIPES OF DISSIMILAR METALS ARE JOINED. SHALL BE COMPATIBLE WITH AND TO SUIT PRESSURE RATING OF PIPING SYSTEM.
2. PIPES NPS 2 AND UNDER SHALL BE WITH ISOLATING UNIONS. PIPES NPS 2 1/2 AND OVER SHALL BE ISOLATING FLANGES.
3. PROVIDE FELT OR RUBBER GASKET TO PREVENT DISSIMILAR METALS CONTACT.
21. DRAIN VALVES
1. LOCATE AT LOW POINTS AND AT SECTION ISOLATING VALVES UNLESS OTHERWISE SPECIFIED.
2. MINIMUM NPS 3/4 UNLESS OTHERWISE SPECIFIED; BRONZE, WITH HOSE END MALE THREAD.
22. EQUIPMENT SUPPORTS
1. EQUIPMENT SUPPORTS NOT SUPPLIED BY EQUIPMENT MANUFACTURER SHALL BE FABRICATED FROM STRUCTURAL GRADE STEEL.
2. RESPONSIBILITY FOR ROOFING AND REINFORCING OF ROOF FOR MECHANICAL EQUIPMENT SUPPORT SHALL BE COORDINATED WITH GENERAL CONTRACTOR. IN THE EVENT THE GENERAL CONTRACTOR WILL NOT BE RESPONSIBLE FOR THIS WORK, THIS SCOPE OF WORK SHALL BE INCLUDED UNDER THE MECHANICAL CONTRACTOR.
23. PIPE HANGERS AND SUPPORTS
1. PROVIDE UPPER ATTACHMENTS, MIDDLE ATTACHMENT ROD, PIPE ATTACHMENT, RISER CLAMPS, SADDLES, SHIELDS AND OTHER DEVICES. RIGID, SWING OR ANY OTHER HANGER SYSTEM SHALL BE SUITABLE FOR THE APPLICATION AND TAKE INTO ACCOUNT ATTACHMENT IN AREAS MADE OF CONCRETE SLAB, STEEL BEAM, WOOD JOISTS AND STEEL JOISTS AND FOR EXPANSION OF PIPING.
2. HANGER SPACING AND MIDDLE ATTACHMENT (ROD) DIAMETER AS PER REGULATORY AUTHORITIES AND MANUFACTURER'S RECOMMENDATIONS.
3. INSTALL HANGER SO THAT ROD IS VERTICAL UNDER OPERATING CONDITIONS. ADJUST HANGERS TO EQUALIZE LOAD. SUPPORT FROM STRUCTURAL MEMBERS, WHERE STRUCTURAL BEARING DOES NOT EXIST OR INSERTS ARE NOT IN SUITABLE LOCATION PROVIDE SUPPLEMENTARY STRUCTURAL STEEL MEMBERS.
4. WHERE SUPPORTING COPPER PIPE, IT SHALL BE ISOLATED FROM ANY NON-COPPER HANGER WITH ELECTROLYTIC ACTION TAPE OR EQUIVALENT.
24. SHOP DRAWINGS AND PRODUCT DATA
1. EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
2. SHOP DRAWINGS AND PRODUCT DATA SHALL SHOW:
1.1 MOUNTING ARRANGEMENTS
1.2 OPERATING AND MAINTENANCE CLEARANCES, EG. ACCESS DOOR, SWING SPACES
1.3 TYPE, NAME, CATALOGUE NUMBERS, TECHNICAL PERFORMANCE DATA, WIRING DIAGRAMS ETC
25. PAINTING
1. APPLY AT LEAST ONE COAT OF CORROSION RESISTANT PRIMER PAINT TO FERROUS SUPPORTS AND SITE FABRICATED WORK.
2. PRIME AND TOUCH UP MARKED FINISHED PAINT WORK TO MATCH ORIGINAL.
3. RESTORE TO NEW CONDITION, FINISHES WHICH HAVE BEEN DAMAGED TO EXTENSIVELY TO BE MERELY PRIMED AND TOUCHED UP.
4. AT AREAS WHERE CUTTING AND PATCHING HAS TAKEN PLACE, PAINTING OF THESE AREAS SHALL BE UNDERTAKEN BY THE AFFECTED (EXPERT) TRADE AT THE EXPENSE OF THE MECHANICAL CONTRACTOR.
26. IDENTIFICATION
1. IDENTIFY AND LABEL EQUIPMENT AND PIPEWORK SERVICES ON COMPLETION OF THE PROJECT.
2. DOMESTIC WATER LINES SHALL SHOW SERVICE AND DIRECTION OF FLOW.
3. EQUIPMENT, PANELS AND CABINETS, SYSTEM NAMEPLATES SHALL BE 1/8" THICK LAMINATED PLASTIC WITH LETTERS AND NUMBERS MACHINE ENGRAVED INTO CORE.
27. ELECTRICAL WORK
1. ALL WIRING AND CONDUIT FOR POWER AND CONTROL SHALL BE BY ELECTRICAL DIVISION, EXCEPT FOR WIRING, CONDUIT AND CONNECTIONS BELOW 50V WHICH ARE RELATED TO AUTOMATIC CONTROL SYSTEMS SHALL BE BY MECHANICAL CONTRACTOR.
2. COORDINATE WITH ELECTRICAL CONTRACTOR FOR WIRING AND TESTING OF ALL MECHANICAL EQUIPMENT.
28. CLEANING
1. UPON COMPLETION AND IN PREPARATION FOR FINAL ACCEPTANCE, CONTRACTOR SHALL REMOVE PROTECTIVE COVERINGS, CLEAN AND REFURBISH ALL EQUIPMENT, FREE ALL OBSTRUCTIONS, REPLACE FILTERS, CLEAN STRAINERS AND LEAVE IN OPERATING CONDITION. ALL SURPLUS AND WASTE MATERIAL SHALL BE PROMPTLY REMOVED FROM THE PREMISES.
29. TRIAL USAGE
1. OBTAIN WRITTEN PERMISSION FROM ENGINEER TO START AND TEST PERMANENT EQUIPMENT AND SYSTEMS TO ACCEPTANCE BY OWNER.
2. ENGINEER AND OWNER MAY USE EQUIPMENT AND SYSTEMS FOR TEST PURPOSES PRIOR TO ACCEPTANCE. SUPPLY LABOUR, MATERIAL AND INSTRUMENTS REQUIRED FOR TESTING.
30. TESTING, ADJUSTING AND BALANCING (TAB)
1. THIS OPERATION SHALL BE UNDERTAKEN BY A CONTRACTOR WHOSE PRINCIPAL BUSINESS IS THAT OF TESTING, ADJUSTING AND BALANCING. THIS CONTRACTOR IS TO CONDUCT ACCEPTANCE TESTS TO DEMONSTRATE THAT THE EQUIPMENT AND SYSTEMS ACTUALLY MEET THE SPECIFIED REQUIREMENTS. TESTS MAY BE CONDUCTED AS SOON AS CONDITIONS PERMIT. SUBMIT TAB REPORT TO ENGINEER FOR REVIEW.
2. THE BALANCING CONTRACTOR SHALL BE AFFILIATED WITH ABC OR NEBB.
3. THIS CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL TAB DEVICES, EQUIPMENT, ACCESSORIES, MEASUREMENT PORT AND FITTINGS. ALL NECESSARY TEST PORTS FOR HYDRONIC SYSTEM SHALL BE PROVIDED TO THE MECHANICAL CONTRACTOR FOR INSTALLATION. OPERATE SYSTEMS FOR LENGTH OF TIME REQUIRED FOR TAB. SUBMIT TAB REPORT TO ENGINEER FOR VERIFICATION. TAB SHALL BE CARRIED OUT FOR THE FOLLOWING SYSTEMS:
1.1 ALL AIRFLUWS WHERE INDICATED.
31. DEMONSTRATION, OPERATION AND MAINTENANCE INSTRUCTIONS
1. SUPPLY TOOLS, EQUIPMENT AND PERSONNEL TO DEMONSTRATE AND INSTRUCT CLIENT'S REPRESENTATIVE DURING REGULAR WORK HOURS AND PRIOR TO ACCEPTANCE IN OPERATING, CONTROLLING, AND ADJUSTING OF ALL SYSTEMS AND EQUIPMENT.
32. OPERATION AND MAINTENANCE MANUAL
1. PROVIDE OPERATION AND MAINTENANCE DATA FOR INCORPORATION INTO MANUAL.
2. OPERATION AND MAINTENANCE MANUAL TO BE APPROVED BY AND FINAL COPIES DEPOSITED WITH ENGINEER BEFORE FINAL INSPECTION.
33. RECORD DRAWINGS
1. SITE RECORDS:
1.1 ON ONE SET OF AUTOCAD MECHANICAL DRAWINGS, MARK ALL CHANGES AS WORK PROGRESSES AND AS CHANGES OCCUR.
2. MAKE AVAILABLE FOR REFERENCE PURPOSES AND INSPECTION AT ALL TIMES.
AS-BUILT DRAWINGS:
1.1 IDENTIFY EACH DRAWING IN LOWER RIGHT HAND CORNER IN LETTERS AT LEAST 1/2" HIGH AS FOLLOWS: "AS BUILT DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW MECHANICAL SYSTEMS AS INSTALLED" (SIGNATURE OF CONTRACTOR) (DATE).
2. SUBMIT TO ENGINEER FOR APPROVAL AND MAKE CORRECTIONS AS DIRECTED.
3. SUBMIT COMPLETED REPRODUCIBLE AS-BUILT DRAWINGS WITH OPERATING AND MAINTENANCE MANUALS.
34. GUARANTEE
1. PROVIDE A WRITTEN GUARANTEE TO COVER ALL MATERIALS AND INSTALLATION OF THE COMPLETE MECHANICAL SYSTEMS. THIS GUARANTEE SHALL EXTEND FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFICATE OF SUBSTANTIAL COMPLETION.
2. SPECIFIC GUARANTEE OF MANUFACTURERS WHOSE WARRANTY NORMALLY EXTENDS OVER LONGER OR SHORTER PERIODS THAN ONE YEAR, SHALL IN NO WAY LIMIT THE GUARANTEE OF THE MECHANICAL WORK.
3. ANY DEFECTS OCCURRING WITHIN THE GUARANTEE PERIOD SHALL BE REPAIRED/REPLACED AT NO COST TO THE OWNER.
4. WHERE PERMANENT EQUIPMENT IS USED TO PROVIDE TEMPORARY SERVICES, THE WARRANTY SHALL BE EXTENDED SO THAT THE WARRANTY PERIOD DOES NOT COMMENCE UNTIL THE CERTIFICATE OF SUBSTANTIAL COMPLETION IS ISSUED.

PLUMBING GENERAL NOTES FOR INSTALLATION

- 1. DOMESTIC WATER PIPING WITHIN THE BUILDING:
1. ABOVE GROUND SHALL BE SEAMLESS COPPER WATER TUBE, TYPE L WITH SOLDERED JOINTS.
2. GRAVITY SANITARY, SINK AND WENT PIPE AND FITTINGS:
1.1 BELOW GRADE SHALL BE PVC-SDR35 (8 IN. AND LARGER), PVC-SDR28 (6 IN. AND SMALLER), ABS-DWV OR PVC-DWV WITH SOLVENT WELD FITTINGS.
1.2 ABOVE GROUND UP TO 2-1/2" DIA. SHALL BE PVC-DWV ULC APPROVED WITH SOLVENT WELD FITTINGS OR COPPER DWV WITH WROUGHT COPPER FITTINGS.
1.3 ABOVE GROUND FOR 3" AND OVER SHALL BE PVC-DWV, ULC APPROVED WITH SOLVENT WELD FITTINGS OR CAST IRON WITH MECHANICAL JOINTS, NEOPRENE OR BUTYL RUBBER COMPRESSION GASKETS AND STAINLESS STEEL CLAMPS.
4. IN A RETURN AIR FLENUM USE FULLY CERTIFIED FIRE-RESISTANT PVC-DWV PIPE SUCH AS IPX SYSTEM XFR 15-50. COORDINATE WITH ARCHITECTURAL AND HVAC DRAWINGS TO CLARIFY AREAS WITH RETURN AIR FLENUM.
5. COMBUSTIBLE PIPE SHALL NOT BE INSTALLED IN A VERTICAL SERVICE SHAFT.
3. WHERE PLASTIC PIPE CROSSES A FIRE SEPARATION IT SHALL BE FITTED WITH APPROVED FIRE STOP DEVICES.
4. INSTALL PLUMBING VENT LINES AS PER ODS PART 7. DISTRIBUTION AND SIZING SHALL BE BY PLUMBING CONTRACTOR.
5. FOR ALL PIPE PENETRATIONS, VOIDS AROUND PIPES SHALL BE SEALED AND CAULKED TO KEEP REQUIRED INTEGRITY.
6. INSTALL PIPE CLEANOUTS FOR SANITARY DRAINAGE LINES.
7. SPRING INSULATION
1. PREFORMED SECTIONAL RIGID FIBREGLASS PIPE INSULATION WITH VAPOUR BARRIER JACKET AND FACING MATERIAL 0-850 DEG.F. SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
1. APPLICATION:
1.1 DOMESTIC COLD AND HOT WATER, HOT WATER RECIRCULATION LINE SHALL BE INSULATED THROUGHOUT IN ALL LOCATIONS.
2. THICKNESS AND THERMAL CONDUCTIVITY AS PER FOLLOWING: RUNOUTS REFERS TO INDIVIDUAL PLUMBING FIXTURES OR TERMINAL UNITS NOT EXCEEDING 12FT.
1.1 DOMESTIC COLD AND HOT WATER AND HOT WATER RECIRCULATION LINES.
1.2 INSULATION THERMAL CONDUCTIVITY 0.24-0.28 BTUIN/(HFT2F) AT 100 DEG. F MEAN TEMP. RATING. NOMINAL PIPE DIAMETER UP TO 2 IN., INSULATION THICKNESS SHALL BE 1 IN. RUNOUTS UP TO 2 IN. NOMINAL PIPE SIZE, THICKNESS SHALL BE 1/2 IN.
2. FASTENINGS:
1. SELF ADHESIVE ALUMINIUM TAPE ULC LABELLED.
2. LAP SEAL ADHESIVE, QUICK SETTING FOR JOINTS AND LAP SEALING OF VAPOUR BARRIERS.
3. LAGGING ADHESIVE FIRE RETARDANT COATING.
8. ALL INSULATED EXPOSED PLUMBING PIPES RUNNING INSIDE THE BUILDING SHALL BE ENTIRELY INSTALLED WITH WHITE PVC JACKETING, UV-RESISTANT WITH MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
9. WHERE SUPPORTING COPPER PIPE, IT SHALL BE ISOLATED FROM ANY NON-COPPER HANGER WITH ELECTROLYTIC ACTION TAPE OR EQUIVALENT.
10. INSTALL VALVED SUPPLIES AT ALL PLUMBING FIXTURES.
11. INSTALL TRAP SEAL PRIMER FOR FLOOR DRAINS AND HUB DRAINS ON COLD WATER SUPPLY TO NEAREST FREQUENTLY USED PLUMBING FIXTURE OR TO A TRAP SEAL PRIMER. INSTALL SOFT COPPER TUBING OR FLEX PIPE TO FLOOR DRAIN AND HUB DRAIN.
12. FOR ACCESSIBLE LAVATORY INSULATE SANITARY AND HOT WATER PIPE WITH 1 IN. THICKNESS OF INSULATION. NOT REQUIRED IF KNEE CONTACT GUARD IS INSTALLED.
13. INSTALL WATER HAMMER ARRESTORS ON BRANCH LINES TO EACH FIXTURE OR GROUP OF FIXTURES HAVING A QUICK CLOSING DEVICE OR SOLENOID OR HOSE BIB.
14. INSTALL BACK FLOW PREVENTER WHERE THERE IS A HEALTH HAZARD POTENTIAL FOR POTABLE WATER SYSTEM AND AS REQUIRED BY THE LOCAL BUILDING DEPARTMENT.
15. FOR THE REMOVAL AND REWORKING OF EXISTING DOMESTIC WATER LINES AND HYDRONIC HEATING LINES, THIS SHALL BE CARRIED OUT BY FREEZING EXISTING RESPECTIVE LINES.
HVAC GENERAL NOTES FOR INSTALLATION
1. UNLESS OTHERWISE NOTED ALL DUCTWORK AND DUCTWORK ACCESSORIES SHALL BE GALVANIZED STEEL LOW PRESSURE. DUCTWORK CONSTRUCTION AND INSTALLATION SHALL BE AS PER THE REQUIREMENTS OF SHADRAH.
2. ALL DUCTWORK TRANSVERSE JOINTS AND CONNECTIONS SHALL BE SEALED.
3. FLEXIBLE DUCT LENGTH SHALL BE LIMITED TO 8FT. MAXIMUM AND SHALL BE FACTORY FABRICATED TO CAN/ULC S110 SHALL BE ALUMINIUM FOIL REINFORCED FILM LAMINATE, PERMANENTLY BONDED TO A CORROSION RESISTANT COATED SPRING STEEL WIRE HELIX. WHERE IT IS REQUIRED TO BE INSULATED, IT SHALL BE INSULATED AS PER R-VALUE SPECIFIED BELOW.
4. DUCTWORK SHALL BE INSULATED AS FOLLOWS. ALL INSULATION SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
1. SUPPLY AIR DUCTS LOCATED INSIDE THE BUILDING ENVELOPE IN CEILING SPACES AND BULKHEADS NOT USED AS RETURN AIR FLENUM OR IN UNHEATED OR NOT AIR-CONDITIONED SPACES SHALL BE INSULATED WITH 1-1/2 IN. THICKNESS OF FLEXIBLE DUCTWORK INSULATION WITH REINFORCED FOLYMER VAPOUR BARRIER FACING, DENSITY 0.75 PCF AND NOMINAL R-VALUE OF 5.0 H.F.T2/F2/8TU.
2. FASTENINGS:
1. SELF ADHESIVE ALUMINIUM TAPE ULC LABELLED.
2. LAP SEAL ADHESIVE, QUICK SETTING FOR JOINTS AND LAP SEALING OF VAPOUR BARRIERS.
3. CONTACT ADHESIVE QUICK SETTING.
5. FOR DUCT PENETRATIONS AT WALL, VOIDS AROUND DUCT SHALL BE SEALED AND CAULKED TO MAINTAIN REQUIRED INTEGRITY.
PLUMBING FIXTURES AND EQUIPMENT SCHEDULE
WC1 WATER CLOSET, WALL MOUNTED, FLUSH VALVE TYPE, TOP SPUD, LOW CONSUMPTION 1.3 IMP. G (6 LPF), ELONGATED BOWL WHITE FINISH, AMERICAN STANDARD 3351101 AFWALL, EVERCLEAN TYPE. TOILET SEAT OPEN FRONT TYPE LESS COVER CENTOCC 5000CSSSS, WHITE FINISH. FLUSH VALVE FACTORY SET FOR 1.3 L/G. DELTA 817201 TOP INLET (11.5" OUTLET TUBE).
WC2 WATER CLOSET, BARRIER-FREE, WALL MOUNTED, FLUSH VALVE TYPE, TOP SPUD, LOW CONSUMPTION 1.3 IMP. G (6 LPF), ELONGATED BOWL WHITE FINISH, AMERICAN STANDARD 3351101 AFWALL, EVERCLEAN TYPE. TOILET SEAT OPEN FRONT TYPE WITH COVER CENTOCC 82051, WHITE FINISH. FLUSH VALVE FACTORY SET FOR 1.3 L/G. DELTA 817201 TOP INLET (11.5" OUTLET TUBE). TOILET SEAT BE LOCATED NOT LESS THAN 430 MM AND NOT MORE THAN 485MM ABOVE THE FLOOR. SHALL BE INSTALLED WITH A SUITABLE FIXTURE CARRIER.
V1 VANITY COUNTERTOP BASIN, OVAL TYPE, AMERICAN STANDARD Q419 444EC CADET EVERCLEAN, FAUCET HOLES ON 4" CENTRES, WHITE FINISH. TWO HANDLE FAUCET SET DELTA 211133 WITH OPEN GRID STRAINER. COMPLETE WITH CHROME PLATED P-TRAP AND FLEX SUPPLIES WITH SCREWDIVER LOCKSHIELD STRUCTURE.
V2 VANITY COUNTERTOP BASIN, BARRIER-FREE, VITREOUS CHINA, AMERICAN STANDARD 9494 001 CADET UNIVERSAL ACCESS, FAUCET HOLES ON 4" CENTRES, WHITE FINISH. TWO HANDLE METERING FAUCET SET DELTA 8611093 WITH OPEN GRID STRAINER. OFFSET P.O. PLUG, CHROME PLATED P-TRAP AND FLEX SUPPLIES WITH SCREWDIVER LOCKSHIELD STRUCTURE. MOUNTING HEIGHT AND CLEARANCES BELOW THE BASIN SHALL COMPLY AS PER D.B.G. 3.8.3.11. INSTALL WITH MECHANICAL MIXING VALVE.
FD1 FLOOR DRAIN FOR NON-MEMBRANE FINISHED FLOOR, WATTS FD-200-7, C/W TRAP PRIMER TAPPING, 1/2 IN. THK. x 5 IN. DIA. NICKEL BRONZE STRAINER.
HVAC EQUIPMENT SCHEDULE
DIFFUSERS, GRILLES AND REGISTERS BY E.H. PRICE UNLESS OTHERWISE INDICATED. COLOUR TO BE FINALIZED ON SITE WITH ARCHITECT.
REF. EGI: EXHAUST GRILLE, 510Z/F/A WITH VOLUME DAMPER

Table with project details including dates (JAN 24/25, DEC 19/24), company name (CoPa ENGINEERING LTD.), project name (ORCHARD PARK SECONDARY SCHOOL Corridor Ceiling and Accessibility Renovations), drawing title (STAFF AND BARRIER-FREE WASHROOM MECHANICAL INSTALLATION AND EQUIPMENT SCHEDULES), and drawing information (DRAWN BY: C. P., CHECKED BY: C. PASHARTIS, PROJECT NO. 24CP059, SCALE: AS NOTED, DATE: DECEMBER 19, 2024, DRAWING NO. M2-1).

ELECTRICAL SPECIFICATION

GENERAL CONDITIONS

- THE CANADIAN STANDARD FORM OF CONSTRUCTION CONTRACT AND GENERAL CONDITIONS GOVERNING THE SAME CCDC PARTS 1 TO 12 INCLUSIVE ARE HEREBY MADE PART OF THIS SPECIFICATION.
- ALL WORK SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE 2021 ONTARIO ELECTRICAL SAFETY CODE, ELECTRICAL SAFETY AUTHORITY (ESA), AND THE LOCAL BUILDING INSPECTION DEPARTMENT REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL INCLUDE FOR ESA INSPECTION FEES.
- THIS CONTRACTOR SHALL MAINTAIN LIABILITY INSURANCE AS REQUIRED.
- ALL WORKMANSHIP SHALL BE EXECUTED TO A STANDARD DETERMINED BY GOOD PRACTICE. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE EQUIPMENT & INSTALLATION FOR ONE YEAR FROM SUBSTANTIAL COMPLETION.
- THE ELECTRICAL CONTRACTOR SHALL SUBMIT ONE SET OF ELECTRONIC PDF SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW. SHOP DRAWINGS TO INCLUDE ALL ELECTRICAL EQUIPMENT, DEVICES & ULC LISTED FIRE STOPPING DETAILS. MATERIALS **SHALL NOT BE ORDERED** UNTIL REVIEW HAS BEEN COMPLETED. APPROVAL IS FOR GENERAL DESIGN COMPLIANCE ONLY.
- THE OWNERS RESERVE THE RIGHT TO ALTER THE LOCATION OF ANY ITEM UP TO TEN FEET (3m) WITHOUT INCURRING EXTRA COSTS, PROVIDED THE REQUEST IS MADE PRIOR TO INSTALLATION.
- ALL MATERIAL AND EQUIPMENT USED ON THIS PROJECT SHALL BE C.S.A. APPROVED, ESA FIELD EVALUATED, OR MUST BEAR AN ESA RECOGNIZED CERTIFICATION MARK.
- CUTTING AND PATCHING FOR ELECTRICAL WORK SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE EXISTING CONDITIONS AND THEN MAKE NECESSARY ALLOWANCES IN THEIR TENDER PRICE FOR REMOVAL, RELOCATION, REROUTING AND/OR RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND WIRING, AS MAY BE NECESSARY FOR THE EXECUTION AND COMPLETION OF THIS PROJECT. EXTRA CHARGES FOR PREMIUM TIME LABOUR SHALL BE INCLUDED IN THE TENDER PRICE, ALLOWING FOR AFTER HOURS, WEEKEND AND HOLIDAY LABOUR REQUIREMENTS.
- THE DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES OR CONTRADICTIONS SHALL BE BROUGHT TO THE CONSULTANT'S ATTENTION.
- THE ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT IS TO BE CONFIRMED WITH MECHANICAL DRAWINGS & SCHEDULES PRIOR TO RELATED WORK.
- ALL TEMPORARY LIGHTING AND POWER DURING CONSTRUCTION SHALL BE BY THE GENERAL CONTRACTOR AFTER AGREEMENT WITH THE ELECTRICAL CONTRACTOR. POWER SHALL BE PROVIDED FROM PANELS WITH REQUIRED SUPPLY AND CAPACITY.
- TENDER SHALL BE BASED UPON THE SPECIFIED EQUIPMENT AND MATERIAL. REQUESTS FOR CONSIDERATION OF ALTERNATES TO THE SPECIFIED MATERIALS SHALL BE MADE TO THE CONSULTANT ONE WEEK PRIOR TO TENDER CLOSING AND SHALL INCLUDE MANUFACTURER, MODEL, AND COST MODIFICATION. COSTS OF ANY CHANGE REQUIRED TO OTHER TRADES AS A RESULT OF USING ALTERNATE EQUIPMENT ARE TO BE INCURRED BY THE ELECTRICAL CONTRACTOR.
- ALL CLAIMS FOR EXTRA WORK NOT COVERED IN THE CONTRACT TO BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIALS AND LABOUR.
- DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE TO BE TAKEN FROM THE ARCHITECTURAL DRAWINGS AND CONFIRMED ON SITE.
- PROVIDE FIRE STOPPING PROTECTION FOR OPENINGS THROUGH ALL FIRE RATED ASSEMBLIES. ULC LISTED ASSEMBLY NUMBERS ARE TO BE USED.
- LOW VOLTAGE CABLES (IE NETWORK, SECURITY, CONTROL, ETC...) ROUTED WITHIN PLENUM SPACES SHALL BE FTG, CMP OR PLENUM RATED WHEN ROUTING THROUGH MECHANICAL CEILING PLENUMS.

MOUNTING HEIGHTS

- DEVICE MOUNTING HEIGHT TO CENTRE OF DEVICE IS AS FOLLOWS:
 - LIGHT SWITCHES 1090mm (or 1200mm IN SERVICE ROOMS)
 - RECEPTACLE 400mm
 - THERMOSTATS 1400mm (or 1200mm BARRIER FREE PATH OF TRAVEL)
 - POWER DOOR OPERATORS 1000mm
 - FIRE ALARM BELL/HORN 2300mm
 - FIRE ALARM HORN/STROBE 2300mm
 - FIRE ALARM MANUAL PULL STATION 1150mm
 - FIRE ALARM END OF LINE RESISTORS 1700mm
 - UNIVERSAL WASHROOM CONTROL 1000mm
 - UNIVERSAL WASHROOM AUDIBLE/VISUAL 2300mm
 - OTHER BUILDING CONTROLS 1000mm
- NOTE: AUDIBLE FIRE ALARM DEVICES TO BE AT LEAST 150mm BELOW CEILING.

COMMUNICATION SYSTEM

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A COMPLETE EMPTY CONDUIT SYSTEM FOR COMMUNICATION OUTLETS AS SHOWN ON THE PLANS.
- PROVIDE CONDUIT AS PER LOW-VOLTAGE DEVICE SCHEDULE. CONDUIT TO BE METALLIC CONDUIT & FIRE STOPPED WHEN PENETRATING FIRE SEPARATIONS.
- PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUITS.

LIGHTING

- SUPPLY AND INSTALL LIGHTING FIXTURES AND DEVICES AS NOTED ON THE PLANS AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL ALL FIXTURES PARALLEL WITH BUILDING LINES UNLESS INDICATED OTHERWISE.
- FOR RECESSED FIXTURES (LED PLUCK LIGHTS EXEMPTED) WITHIN SUSPENDED CEILINGS, PROVIDE EITHER:
 - SAFETY JACK CHAIN TO BUILDING STRUCTURE, OR
 - MANUFACTURER APPROVED FASTENING DEVICES OR 'EARTHQUAKE CLIPS' FASTENED TO T-BAR.
- INSTALL A SEPARATE NEUTRAL CONDUCTOR FOR EACH LIGHTING BRANCH CIRCUIT.
- LIGHTING CONTROL WIRING NOT RUN WITHIN CONDUIT SHALL BE PLENUM RATED (FTG).

FIRE ALARM

- GENERAL:
- FIRE ALARM WIRING SHALL BE MINIMUM #18 AWG 300V FAS CABLE (WIRING TO BE SIZED BY FIRE ALARM VENDOR FOR VOLTAGE DROP) RUN AS FOLLOWS:
 - EXPOSED WALL: SURFACE WALL WIRING SHALL BE FAS WIRING IN SURFACE METAL WIREMOLD PAINTED TO MATCH WALL WHERE WIRING AND CONDUIT CANNOT BE RECESSED.
 - ACCESSIBLE CEILING SPACES, CONCEALED SPACES, FINAL DEVICE CONNECTIONS: ARMOURD FAS CABLE
 - EXPOSED CEILING, RISER CLOSETS, SERVICE ROOMS: FAS WIRING IN EMT CONDUIT.
 - BELOW GRADE: FAS WIRING IN CONCRETE ENCASED PVC CONDUIT.
 - COMMISSIONING OF LIFE SAFETY SYSTEMS **SHALL BE INCLUDED** IN ELECTRICAL CONTRACTORS PRICE.
 - FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-5524-14, "INSTALLATION OF FIRE ALARM SYSTEMS".
 - FIRE ALARM SYSTEM SHALL BE VERIFIED IN CONFORMANCE WITH CAN/ULC-5537-13, "VERIFICATION OF FIRE ALARM SYSTEMS" BY A THIRD PARTY (ARMS LENGTH).
 - IF A FIRE ALARM OR VOICE COMMUNICATION SYSTEM OR ANY PART THEREOF IS SHUT DOWN:
 - THE **FIRE DEPARTMENT AND BUILDING OCCUPANTS** SHALL BE NOTIFIED, AND
 - IF APPLICABLE THE SUPERVISORY STAFF SHALL BE NOTIFIED, AND
 - POST NOTICES ON ALL FLOORS BY ELEVATORS AND AT ENTRANCES, STATING THE SCOPE OF WORK AND WHEN IT IS EXPECTED TO BE COMPLETED.
 - HAVE STAFF OR OTHER RELIABLE PERSON(S) PATROL THE AFFECTED AREA(S) AT LEAST ONCE EVERY HOUR. REFER TO CAN/ULC-5537-13(18) APPENDIX B - ALTERNATE MEASURES FOR OCCUPANT FIRE SAFETY.
 - WHERE EXISTING, UNLESS NOTED OTHERWISE, FIRE ALARM TO BE KEPT. THE ELECTRICAL CONTRACTOR TO INCLUDE ALL COSTS ASSOCIATED WITH RELOCATION OF ANY DEVICES OR EQUIPMENT.
 - EXISTING FIRE ALARM DEVICES TO REMAIN AND IN SOME CASES BE RELOCATED TO NEW CEILING IN SAME LOCATION.

EXISTING CONDITIONS

- ELECTRICAL WORK AFFECTING OTHER TENANTS SHALL BE PERFORMED AFTER BUSINESS HOURS (EVENINGS AND WEEKENDS), COORDINATE WITH LANDLORD.
- SERVICE AND DISTRIBUTION SYSTEM POWER INTERRUPTIONS SHALL BE KEPT TO A MINIMUM. POWER INTERRUPTIONS MUST BE COORDINATED WITH THE OWNER AND ALL OTHER TRADES BY THIS CONTRACTOR. WRITTEN APPROVAL FOR ELECTRICAL INTERRUPTIONS MUST BE RECEIVED FROM THE OWNER INDICATING THE DATE, TIME AND ESTIMATED DURATION OF THE INTERRUPTION. APPLICATION FOR APPROVAL OF THE POWER INTERRUPTIONS MUST BE SUBMITTED TO THE OWNERS AND/OR ARCHITECTS AT LEAST TWO WEEKS PRIOR TO THE REQUESTED SHUTDOWN DATE.
- EXISTING ELECTRICAL EQUIPMENT, REMOVED AND INDICATED FOR REUSE, SHALL BE CLEANED BEFORE RE-INSTALLATION.
- WIRING LOCATED IN AREAS BEING ALTERED OR DEMOLISHED, BUT FEEDING OUTLETS OR EQUIPMENT REQUIRED TO REMAIN IN SERVICE, MUST BE REWORKED IN ORDER TO MAINTAIN THE CONTINUITY OF THE EXISTING WIRING.
- REPAIRS TO EXISTING WALLS, FLOORS, AND CEILINGS ARE TO BE PERFORMED BY THE GENERAL CONTRACTOR TO MEET THE EXISTING CONDITIONS.
- SEQUENCE OF REMOVAL AND RELOCATION OF EXISTING EQUIPMENT AND WIRING SHALL BE COORDINATED WITH THE OTHER TRADES AND SHALL CONFORM TO THE REQUIREMENTS AND CONDITIONS OUTLINED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO EXISTING WIRING AND EQUIPMENT THROUGHOUT THE PROJECT, PARTICULARLY WHERE WIRING AND ELECTRICAL EQUIPMENT HAVE BECOME EXPOSED TO MECHANICAL DAMAGE OR MOISTURE IN THE COURSE OF ALTERATIONS OR NEW CONSTRUCTION.
- NEW OUTLETS AND EQUIPMENT SHOWN IN THE SAME LOCATION AS EXISTING OUTLETS MAY BE FED THROUGH THE EXISTING CONDUITS/WIRING, PROVIDED THAT THEY ARE IN GOOD CONDITION AND ARE ACCEPTABLE TO THE ESA INSPECTION DEPARTMENT.

DEMOLITION

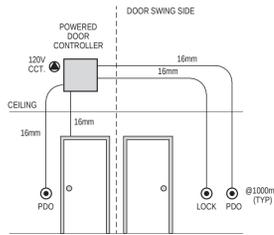
- ALL EXISTING ELECTRICAL EQUIPMENT, WIRING, AND ROUGH-IN DEVICES ARE TO BE REMOVED COMPLETE TO SUIT THE DEMOLITION AND RENOVATION OF THE SPACES. ALL EXISTING ELECTRICAL EQUIPMENT, NOT BEING REUSED, SHALL BECOME THE PROPERTY OF THE OWNER. ELECTRICAL CONTRACTOR SHALL PROPERLY DISPOSE OF EQUIPMENT NOT DESIRED BY OWNER.
- ALL DEVICES & EQUIPMENT MADE OBSOLETE SHALL BE REMOVED FROM THE CONSTRUCTION SITE.
- THE DEMOLITION PLANS SHOW THE MAJORITY OF DEMOLITION WORK INVOLVED. SOME DEVICES MAY HAVE INADVERTENTLY BEEN MISSED, OR WERE HIDDEN DURING THE SURVEY. CONTRACTOR TO ALSO INCLUDE THE FOLLOWING:
 - THREE (3) TEXT COMBINATION SIGNS
 - FIVE (5) LIGHTING FIXTURES
 - THREE (3) WALL LIGHTING CONTROLS
 - FIVE (5) NETWORK/SECURITY ITEMS, THAT WILL BE REWORKED ONTO NEW CEILING

GENERAL CLOSE OUT PROCEDURES

- DOCUMENTS:** ELECTRICAL CONTRACTOR TO SUBMIT:
 - FIRE ALARM SYSTEM ULC-5537-13 VERIFICATION REPORT (INCLUDING DEVICE & AUDIBILITY REPORT).
 - ESA CERTIFICATE OF INSPECTIONS;
 - SIGNED COPY OF EMERGENCY LIGHTING TEST REPORT, EMERGENCY LIGHTING TEST REPORT TO INDICATE TOTAL RUNTIME OF EMERGENCY LIGHTING ONCE NORMAL POWER IS LOST FOR EACH BATTERY SYSTEM. (MINIMUM 30MIN AS PER OBC:3.2.7.4(1b))
- TRAINING:** ELECTRICAL CONTRACTOR SHALL PROVIDE TRAINING SESSIONS TO THE OWNER ON ALL MAJOR ELECTRICAL SYSTEMS.
- COMMISSIONING:** ALL MAJOR SYSTEMS ARE TO BE COMMISSIONED BY THE MANUFACTURERS REPRESENTATIVE INCLUDING FIRE ALARM, LIGHTING CONTROL SYSTEMS.
- FUNCTIONAL TESTING** (AT CONTRACTORS EXPENSE):
 - LIGHTING CONTROL SYSTEM TESTING SHALL INCLUDE OCCUPANCY SENSOR PLACEMENT, SENSITIVITY, AND CONTROL SETTING CALIBRATION. PROPERLY OPERATING OCCUPANCY SENSORS ARE TO TURN OFF LIGHTS WITHIN A REASONABLE PERIOD OF TIME IN UNOCCUPIED SPACES AND SHALL NOT ALLOW LIGHTS TO TURN ON UNLESS SPACE IS OCCUPIED. CONFIRM ALL TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF. COORDINATE WITH MECHANICAL, HVAC SYSTEM TO BE ON DURING TESTING.
- RECORD DRAWINGS:** ELECTRICAL CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ACTUAL INSTALLATION TO OWNERS WITHIN 30 DAYS OF SYSTEM ACCEPTANCE. DRAWINGS ARE TO INCLUDE SINGLE LINE DIAGRAM OF DISTRIBUTION SYSTEM; FLOOR PLANS SHOWING THE LOCATION OF DISTRIBUTION EQUIPMENT AND THE AREAS SERVED BY THAT EQUIPMENT; CHANGES TO LIGHTING, LIGHTING CONTROLS & CIRCUITING.

INSPECTIONS BY CONSULTANT

- CONTRACTOR SHALL NOTIFY CONSULTANTS WHEN INSPECTIONS ARE REQUIRED. ALLOW FOR MINIMUM OF THREE BUSINESS DAYS OF NOTICE PRIOR TO INSPECTION.
- INSPECTIONS ARE REQUIRED AT THE FOLLOWING MILESTONES:
 - FINAL INSPECTION



- PROVIDE BACKING BOX & 16mm EMT FROM EACH DEVICE TO POWER DOOR CONTROLLER. COORDINATE WITH CONTROLLER PROVIDER.
- 16mm EMT TO DOOR HEADER, PULL STRING TO ELECTRIC STRIKE.
 - PDO BUTTON OUTSIDE DOOR SWING AS SHOWN ON PLAN.
 - PDO BUTTON ON DOOR SWING SIDE, BETWEEN 600mm & 1500mm FROM DOOR SWING
 - PULL STRING IN ALL CONDUITS
 - LIGHTING CONTROL MOTION SENSOR MOUNTED AT 1050mm TO CENTRE

6 Conduit Detail - PDO

| All Sheet Notes | |
|-----------------|------|
| # | NOTE |
| 7 | |

DEVICE/EQUIPMENT OPTIONS & TAGS

| | |
|-----|---|
| CL | CEILING MOUNT |
| FL | FLOOR MOUNT |
| GFI | DEVICE WIRED TO LOAD SIDE OF GFCI RECEPTACLE/BREAKER |
| RP | REPLACE EXISTING DEVICE WITH NEW DEVICE IN SAME LOCATION. |
| REL | RELOCATED DEVICE/EQUIPMENT. REWORK WIRING AS NEEDED. IF APPLICABLE PROVIDE NEW DEVICE BOX & CONNECTORS. |

- NEW DEVICE/EQUIPMENT
- TO BE REMOVED
- EXISTING TO REMAIN

1 New, Removed, Existing

- RS-2 → EQUIPMENT TYPE ID (AS PER MECHANICAL EQUIPMENT SCHEDULE)
- A-4/G/6 → EQUIPMENT CIRCUIT
- @1800mm AFF → EQUIPMENT SPECIFIC DETAILS.
- EQUIPMENT SYMBOL (VARIES)

2 Tags - Mechanical Equipment

- 27S → DEVICE TYPE ID (AS PER LOW VOLTAGE DEVICE SCHEDULE)
- TV@1800mm → DEVICE SPECIFIC MOUNTING INSTRUCTIONS
- DEVICE SYMBOL (VARIES)

DEVICES WITH UNIQUE SYMBOL & TYPE MAY NOT HAVE A TYPE ID. DEVICES MOUNTED BESIDE COUNTER HEIGHT ELECTRICAL DEVICES ARE TO ALSO BE MOUNTED AT COUNTER HEIGHT.

3 Tags - Low Voltage Devices

- RS-2 → DEVICE TYPE ID (AS PER ELECTRICAL DEVICE SCHEDULE)
- A-4 → DEVICE CIRCUIT
- TV@1800mm → DEVICE SPECIFIC DETAILS
- DEVICE SYMBOL (VARIES)

4 Tags - Electrical Devices

- V1 → DEVICE TYPE ID (AS PER LIGHTING CONTROL DEVICE SCHEDULE)
- (Z1) → LIGHTING CONTROL ZONE ID
- 0-10V → 0-10V WIRING REQUIRED BETWEEN CONTROL DEVICE AND ALL LIGHTING FIXTURES WITHIN THE SAME CONTROL ZONE.
- A-4 → CIRCUIT # USED FOR ZONE
- DEVICE SYMBOL (VARIES)

5 Tags - Lighting Devices

ELECTRICAL LEGEND

| SCHEDULE (x = TYPE) | EXISTING | DEMO | NEW | DESCRIPTION |
|--------------------------------|----------|------|------|--|
| LIGHTING DEVICE SCHEDULES | \$ | \$ | \$ x | LIGHT SWITCH |
| | | | x | DIMMER SWITCH |
| | | | x | LIGHTING MOTION SENSOR |
| | | | x | LIGHTING POWER PACK |
| | | | x | LIGHTING TIME CLOCK |
| LIGHTING FIXTURE SCHEDULES | | | x | LIGHTING CONTACTOR |
| | | | x | EXIT SIGN, CEILING MOUNT, HATCH = SIGN, ARROW = DIRECTION |
| | | | x | EXIT SIGN, WALL MOUNT, HATCH = SIGN, ARROW=DIRECTION |
| | | | x | EXIT / EMERG COMBO, WALL MOUNT, HATCH=SIGN, ARROW=DIRECTION |
| | | | x | EMERGENCY LIGHT, BATTERY UNIT |
| | | | x | EMERGENCY LIGHT, REMOTE HEAD |
| | | | x | LIGHTING FIXTURE |
| | | | x | WALL MOUNTED LIGHTING FIXTURE |
| | | | x | LIGHTING FIXTURE |
| | | | x | NIGHT LIGHTING FIXTURE |
| ELECTRICAL EQUIPMENT SCHEDULES | | | x | ELECTRICAL POWER PANEL |
| | | | x | ELECTRICAL DISCONNECT (FUSED OR UNFUSED) |
| | | | x | ELECTRICAL EQUIPMENT - MISCELLANEOUS |
| MECHANICAL EQUIPMENT SCHEDULES | | | x | MECHANICAL EQUIPMENT CONTROL |
| | | | x | MECHANICAL EQUIPMENT - HARDWARE CONNECTION |
| | | | x | MECHANICAL EQUIPMENT c/w LOCAL DISCONNECT |
| | | | x | MECHANICAL EQUIPMENT - CONTRACTOR SUPPLIED ELECTRIC HEATER |
| ELECTRICAL DEVICE SCHEDULES | | | x | #6 AWG CU TO BUILDING GROUND |
| | | | x | HARDWIRE CONNECTION |
| | | | x | DUPLEX RECEPTACLE 15A |
| | | | x | DUPLEX RECEPTACLE 15A - COUNTER (100mm ABOVE BACKSPASH) |
| | | | x | DUPLEX RECEPTACLE 20A |
| | | | x | DUPLEX RECEPTACLE 20A - COUNTER (100mm ABOVE BACKSPASH) |
| | | | x | SPECIAL RECEPTACLE |
| | | | x | DATA OUTLET |
| | | | x | PUSHBUTTON (BOX & 16mm EMT TO ACCESSIBLE CEILING SPACE) |
| | | | x | UNIVERSAL WASHROOM: ASSISTANCE REQUESTED AUDIBLE VISUAL SIGNAL |
| LOW VOLTAGE DEVICE SCHEDULES | | | x | COMMUNICATION BACKBOARD - PLYWOOD GOOD ONE SIDE |
| | | | x | CARD READER/FOB |
| | | | x | ELECTRIC STRIKE |
| | | | x | SOUND SPEAKER |
| | | | x | FIRE ALARM MANUAL PULL STATION |
| | | | x | FIRE ALARM HORN |
| | | | x | FIRE ALARM HORN STROBE (zz = CANDELA, 15cd DEFAULT) |
| | | | x | FIRE ALARM STROBE (zz = CANDELA, 15cd DEFAULT) |
| | | | x | FIRE ALARM SMOKE DETECTOR |
| | | | x | FIRE ALARM HEAT DETECTOR |
| FIRE ALARM DEVICE SCHEDULES | | | x | FIRE ALARM SMOKE DETECTOR c/w FORM 'C' RELAY SUB-BASE |
| | | | x | FIRE ALARM HEAT DETECTOR c/w FORM 'C' RELAY SUB-BASE |
| | | | x | FIRE ALARM BELL |
| | | | x | POLYCARBONATE COVER WITH ALARM OVER MANUAL PULL STATION |
| | | | x | FIRE ALARM END OF LINE RESISTOR |

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| | | |
|---|---------------------|--------------|
| 4 | Reissued For Tender | Feb 11, 2025 |
| 3 | Reissued For Tender | Feb 03, 2025 |
| 2 | Issued For Tender | Jan 24, 2025 |
| 1 | Issued For Permit | Dec 20, 2024 |

| NO. | DESCRIPTION | DATE |
|-------------------|-------------|------|
| REVISION SCHEDULE | | |

ROOT3 Engineering
1920 YONGE ST., SUITE 200
TORONTO, ON, M4S 3E2

PROJECT NAME
Orchard Park Secondary School
200 Dewitt Rd,
Stoney Creek City, ON

DRAWING TITLE
Electrical Legend & Specification

| | | |
|----------------|---------|-----------------------------|
| SCALE | 1 : 1 | DRAWING NUMBER E1 |
| SHEET SIZE | 24"x36" | |
| PROJECT NUMBER | 24055 | |

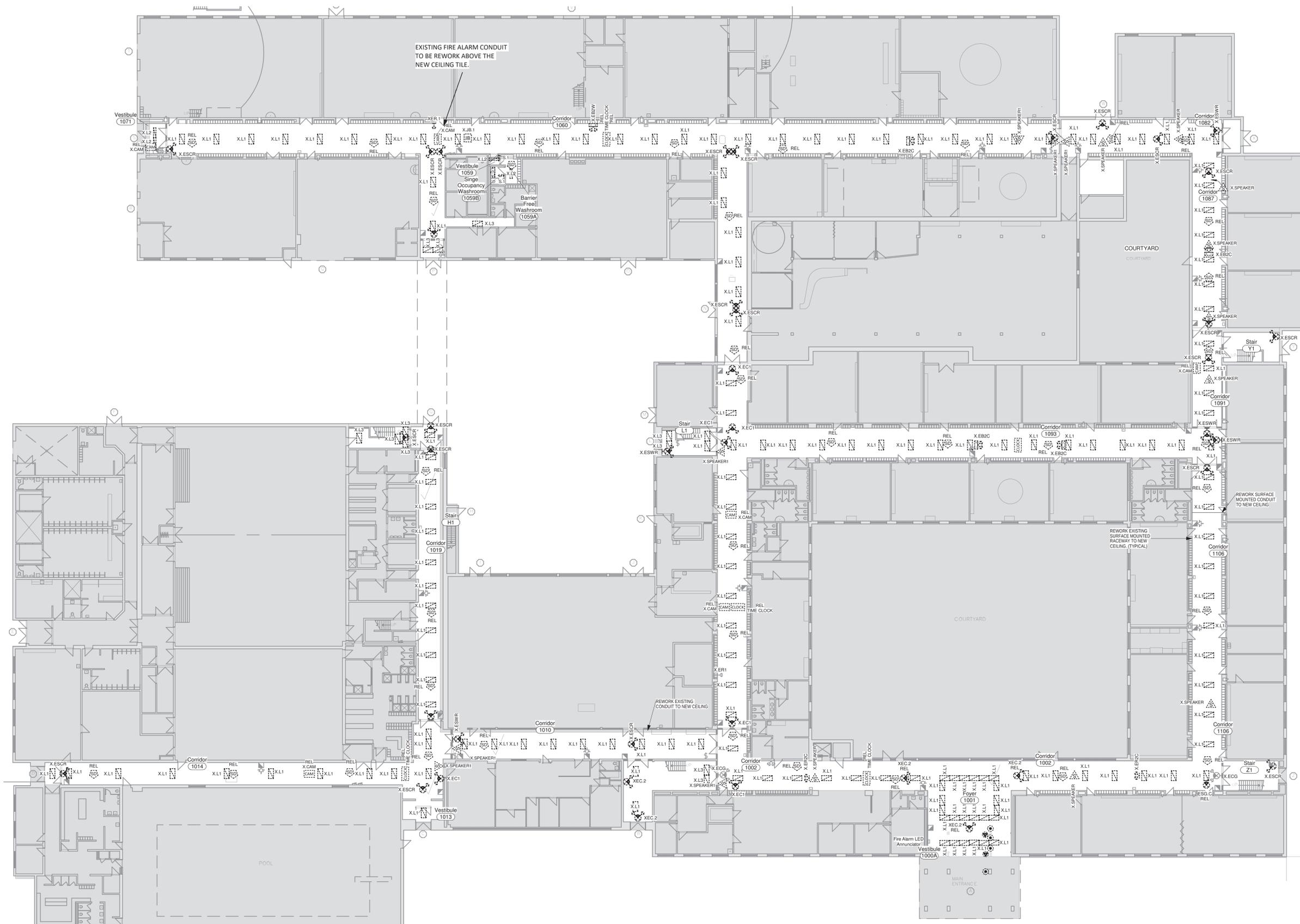
| Electrical Sheet List | |
|-----------------------|---|
| Sheet # | Sheet Name |
| E1 | Electrical Legend & Specification |
| E2.1 | Demo RCP Level 1 |
| E2.2 | Demo RCP Level 2 |
| E2.3 | Demo Ceiling Cable tray & Conduit - Level 1 - North |
| E2.4 | Demo Ceiling Cable tray & Conduit - Level 1 - Southeast |
| E2.5 | Demo Ceiling Cable tray & Conduit - Level 1 - Southeast |
| E2.6 | Demo Ceiling Cable tray & Conduit - Level 2 |
| E3.1 | Proposed RCP Level 1 - North |
| E3.2 | Proposed RCP Level 1 - South & WR |
| E3.3 | Proposed RCP Level 1 - South/East |
| E3.4 | Proposed RCP Level 2 |
| E4 | Schedules & Details |
| Total: | 12 |

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PROJECT NORTH



| | | |
|---|---------------------|--------------|
| 4 | Reissued For Tender | Feb 11, 2025 |
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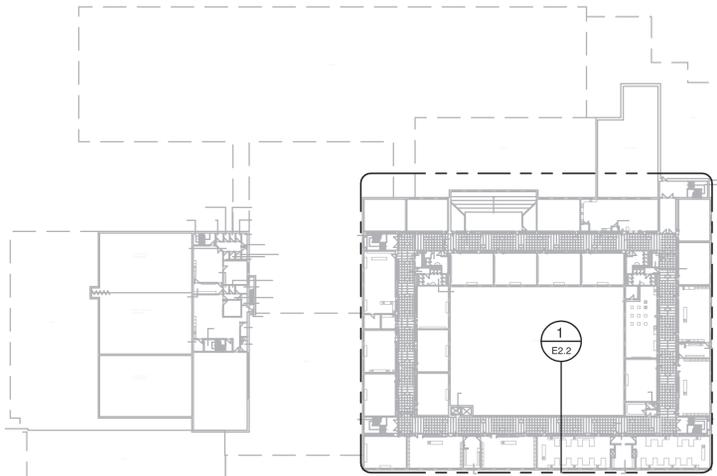


Orchard Park Secondary School
200 Dewitt Rd.
Stoney Creek City, ON

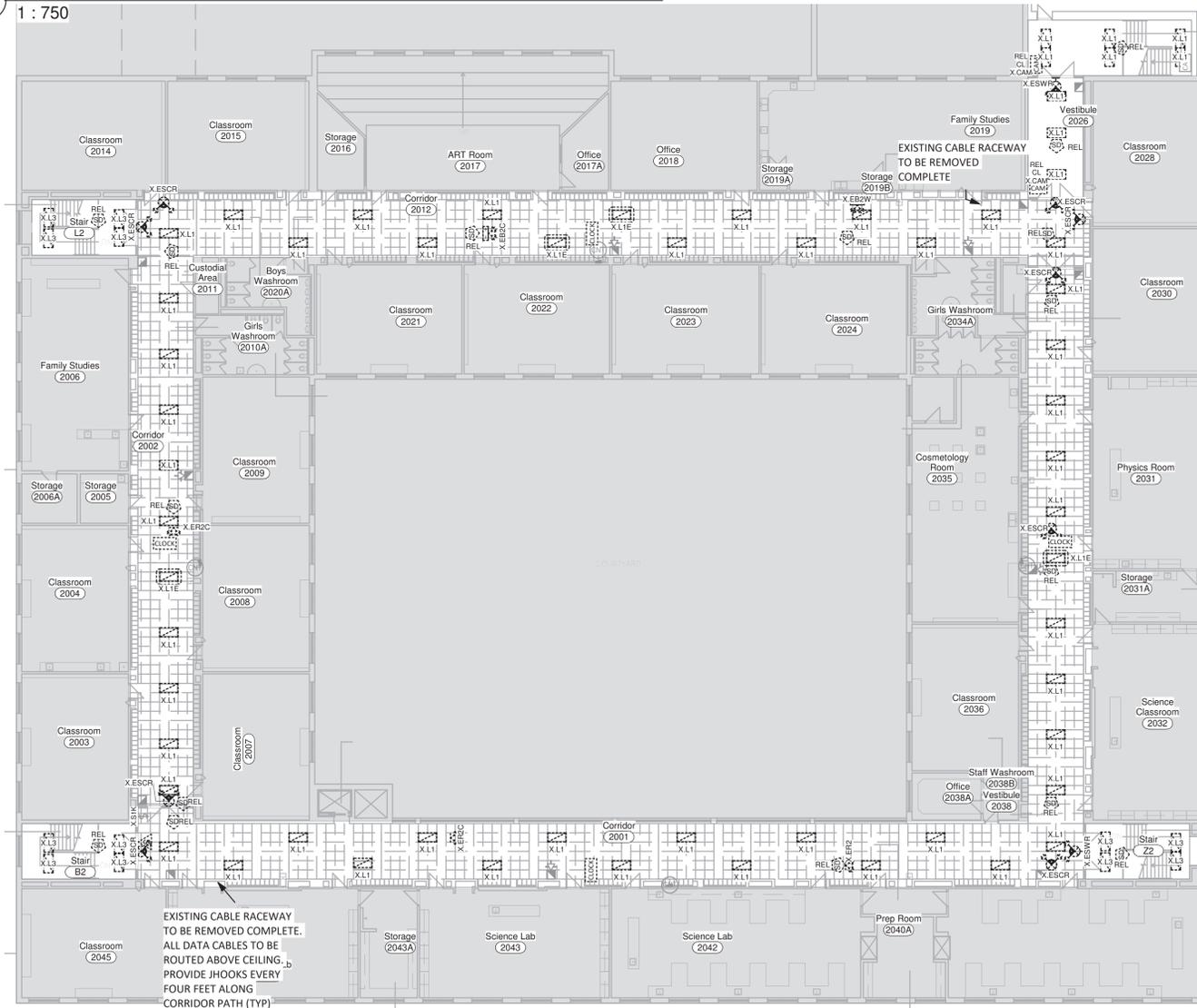
Demo RCP Level 1

1 Demo - Level 1 - Power, Lighting & Life-Safety
1 : 225

| | | |
|----------------|---------|-------------------------------|
| SCALE | 1 : 225 | DRAWING NUMBER E2.1 |
| SHEET SIZE | 24"x36" | |
| PROJECT NUMBER | 24055 | |



2 KEYMAP Demo - Level 2
1 : 750



1 Demo - Level 2 - Lighting & Life-Safety Plan
1 : 200

| 1 - Total Removed - Low Voltage Device Schedule | | | | | | | | | |
|---|-----------|------------|---|--|---------------------------|---------------|--|--|--|
| CURRENT SCHEDULE PHASE: Tender | | | | | SHOWING PHASE ITEMS: None | | | | |
| QTY | Relocated | Type | Conduit | Description | Phase Added | Phase Removed | | | |
| 4 | No | PDO | 16mm EMT | Power Door Operator; Device box & conduit to Door controller. | EXISTING | Tender | | | |
| 1 | No | SPEAKER | 21mm EMT | Surface Mount Device Box & EMT, Daisy Chain between devices; Home Run EMT to Main Communication Backboard. | EXISTING | Tender | | | |
| 9 | Yes | TIME CLOCK | Unknown Conduit, relocated to new ceiling tile. | Existing ceiling mounted Digital Time Clock | EXISTING | Tender | | | |
| 1 | No | TIME CLOCK | Unknown Conduit, relocated to new ceiling tile. | Existing ceiling mounted Digital Time Clock | Tender | Tender | | | |
| 8 | Yes | X.CAM | Unknown Conduit | Existing Security Camera. | EXISTING | Tender | | | |
| 9 | No | X.SPEAKER | Unknown Conduit, relocated to new ceiling tile. | Existing Recessed Ceiling Speaker | EXISTING | Tender | | | |
| 7 | No | X.SPEAKER | Unknown Conduit | Existing surface mounted speaker at high level. | EXISTING | Tender | | | |
| Total: 39 | | | | | | | | | |

| 4 - Total Removed - Fire Alarm Device Schedule | | | | | | | | | |
|--|-----------|-------|-----------------------|----------------|---------------------------|---------------|--|--|--|
| CURRENT SCHEDULE PHASE: Tender | | | | | SHOWING PHASE ITEMS: None | | | | |
| QTY | Relocated | Model | Description | Type Comments | Phase Added | Phase Removed | | | |
| 53 | Yes | | Fire Alarm Initiating | Smoke Detector | EXISTING | Tender | | | |
| Total: 53 | | | | | | | | | |

| 6 - Total Removed - Lighting Fixture Schedule | | | | | | | | | | | |
|---|-------|--------|-----------|------|----------|---------------------------|---------|--|-------------------------|-------------|---------------|
| CURRENT SCHEDULE PHASE: Tender | | | | | | SHOWING PHASE ITEMS: None | | | | | |
| Qty | Image | Type | Relocated | Mfg. | Model# | Mounting | Height | Description | Remarks | Phase Added | Phase Removed |
| 1 | | | No | TBD | TBD | | | TBD | TBD | EXISTING | Tender |
| 1 | | ESG.C | Yes | | Existing | Ceiling | Ceiling | Emergency Exit Sign - Ceiling Mount; Green Pictogram | | EXISTING | Tender |
| 5 | | X.EB2C | No | | Existing | Wall | 2300mm | Emergency Battery Light - 2 Head; | Assumed 9W Incandescent | EXISTING | Tender |
| 2 | | X.EB2W | No | | Existing | Wall | 2300mm | Emergency Battery Light - 2 Head; | Assumed 9W Incandescent | EXISTING | Tender |
| 6 | | X.EC1 | No | | Existing | Ceiling | Ceiling | Exit/Emergency combination sign - Ceiling Mount; 2-Head Emerg Light; Red Letters. MAY BE RECESSED EMERGENCY CEILING BATTERY UNIT, WITH TWO EMERGENCY LIGHTS & EXIT SIGN. | Assumed 9W Incandescent | EXISTING | Tender |
| 1 | | X.ER2 | No | | Existing | Wall | 2300mm | Emergency Remote - 2 Head; | Assumed 9W Incandescent | EXISTING | Tender |
| 4 | | X.ER2C | No | | Existing | Wall | 2300mm | Emergency Remote - 2 Head; | Assumed 9W Incandescent | EXISTING | Tender |
| 33 | | X.ESCR | No | | Existing | Ceiling | Ceiling | Emergency Exit/Combo Sign - Ceiling Mount; 2-Head Emerg Light; Red Letters | Assumed 9W Incandescent | EXISTING | Tender |
| 7 | | X.ESWR | No | | Existing | Wall | 2300 | Emergency Exit/Combo Sign - Wall Mount; 2-Head Emerg Light; Red Letters | Assumed 9W Incandescent | EXISTING | Tender |
| 223 | | X.L1 | No | TBD | TBD | | | Existing Lighting Fixture | TBD | EXISTING | Tender |
| 4 | | X.L1E | No | TBD | TBD | | | TBD | TBD | EXISTING | Tender |
| 4 | | X.L2 | No | TBD | TBD | | | TBD | TBD | EXISTING | Tender |
| 23 | | X.L3 | No | TBD | TBD | | | Existing 2x4 Surfaced Mount | TBD | EXISTING | Tender |
| 5 | | X.EC.2 | | | Existing | Ceiling | Ceiling | Emergency Exit/Combo Sign - Ceiling Mount; 2-Head Emerg Light; Green Pictogram | Assumed 9W Incandescent | EXISTING | Tender |
| 1 | | X.ER.1 | No | | Existing | Wall | 2300mm | Emergency Remote - 1 Head; | Assumed 9W Incandescent | EXISTING | Tender |
| Total: 320 | | | | | | | | | | | |

| 3 - Total Removed - Electrical Device Schedule | | | | | | | | | |
|--|---------|-----------|----------------------------|---|---------------------------|---------------|--|--|--|
| CURRENT SCHEDULE PHASE: Tender | | | | | SHOWING PHASE ITEMS: None | | | | |
| Qty | Type ID | Relocated | Description | Type Comments | Phase Added | Phase Removed | | | |
| 2 | DC | Yes | Direct Hardwire Connection | Powered Door Controller; Wired to line side of local lighting circuit. Estimated ~300W non-continuous load. | EXISTING | Tender | | | |
| 1 | X.JB.1 | No | Junction Box | Existing junction box and emt conduit, to be rework above the new ceiling tile. | EXISTING | Tender | | | |
| Total: 3 | | | | | | | | | |

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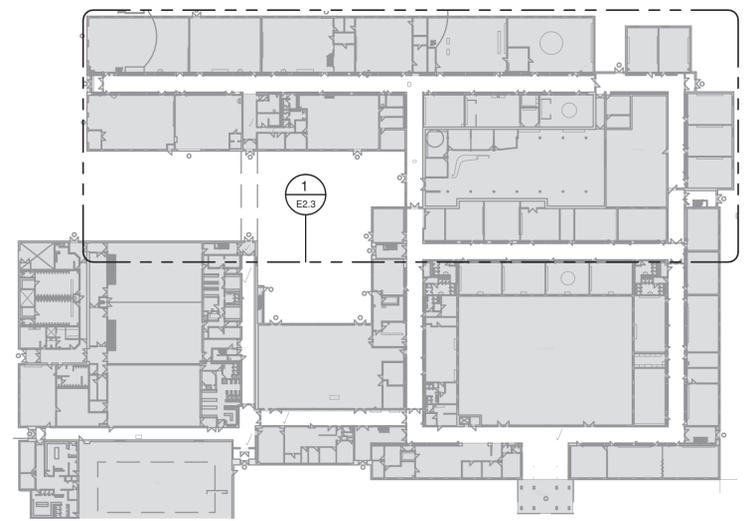


1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2
PROJECT NAME
Orchard Park Secondary School
200 Dewitt Rd.
Stoney Creek City, ON

DRAWING TITLE
Demo RCP Level 2

| SCALE | DRAWING NUMBER |
|-------------------------|----------------|
| As indicated | E2.2 |
| SHEET SIZE 24"x36" | |
| PROJECT NUMBER 24055 | |

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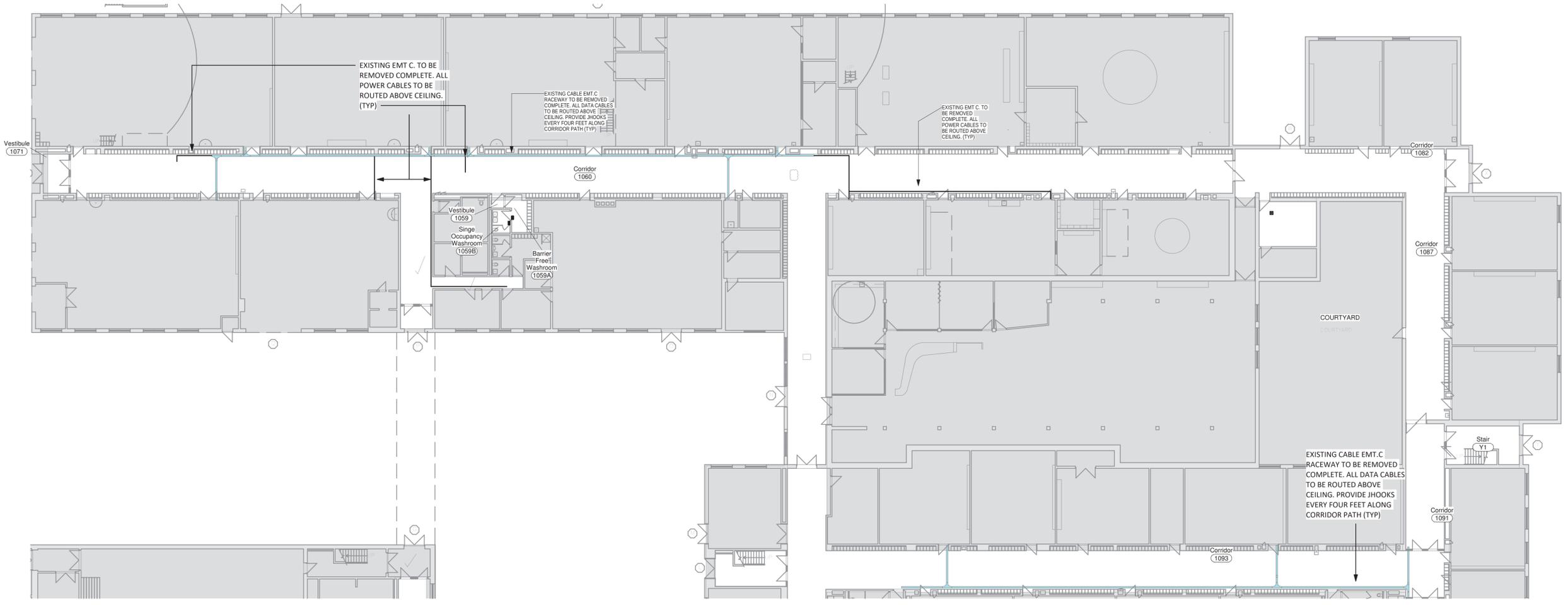


2 KEYMAP Demo - Level 1 North



3 Typical Raceway

NOTE:
 • AT LOCATIONS WHERE EXISTING RACEWAYS PENETRATE WALL BELOW CEILING LEVEL, PROVIDE SMALL PLASTIC RACEWAY COVER TO INTERFACE BETWEEN CEILING AN EXISTING PENETRATION. THE MAJORITY OF WALL PENETRATIONS AND DATA CABLE/EMT RACEWAYS ARE SHOWN. IT IS THE INTENT THAT ALL DATA RACEWAYS/CONDUIT ARE RELOCATED ABOVE CEILING TILE EXCEPT FOR SHORT SECTION RIGHT AT EXISTING WALL PENETRATIONS. CURRENTLY NOT SHOWN. ASSUME THERE 30FT OF DATA RACEWAY AND 8 WALL PENETRATIONS ON THIS PROJECT BUT ARE TO BE REWORKED AS NOTED ABOVE. CURRENTLY NOT SHOWN, ASSUME THAT THERE ARE 40FT OF 1/2" EMT C. WITH 8#12 AWG POWER CABLES/WIRING, THAT NEED TO BE REWORKED/ROUTED ABOVE CEILING.



1 Demo - Level 1 - Power & Data Ceiling Conduit - North
 1 : 200



| | | |
|---|---------------------|--------------|
| 4 | Reissued For Tender | Feb 11, 2025 |
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| REVISION SCHEDULE | | |

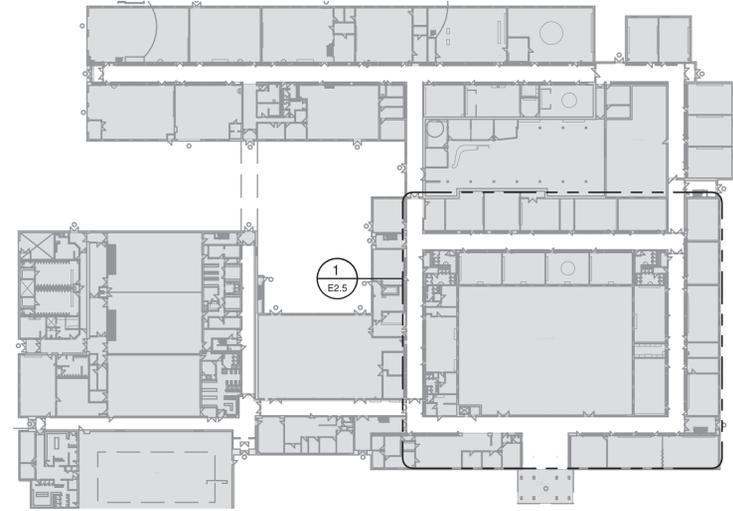


PROJECT NAME
Orchard Park Secondary School
 200 Dewitt Rd,
 Stoney Creek City, ON

DRAWING TITLE
Demo Ceiling Cable tray & Conduit - Level 1 - North

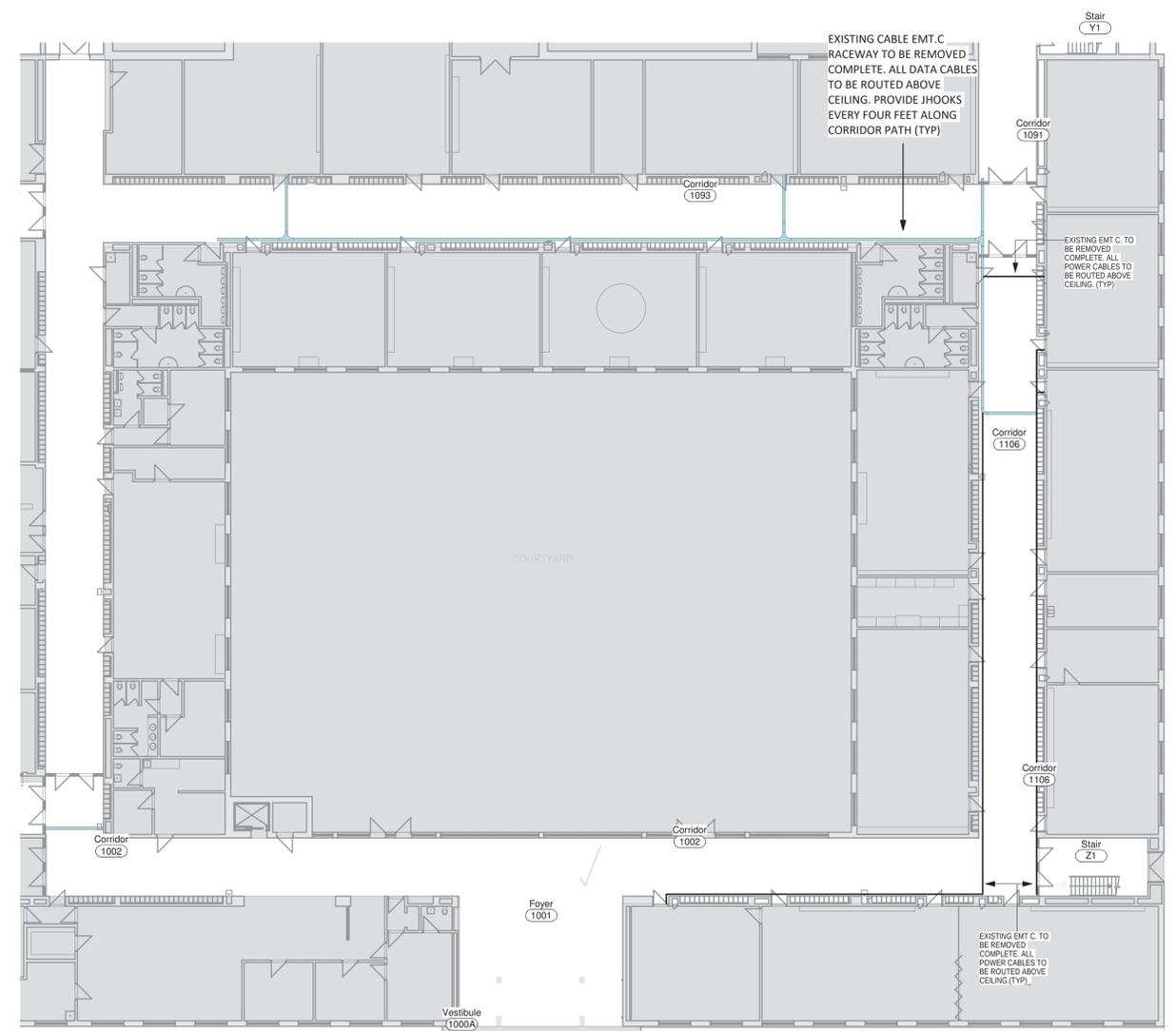
| | |
|-------------------------|-------------------------------|
| SCALE As indicated | DRAWING NUMBER E2.3 |
| SHEET SIZE 24"x36" | |
| PROJECT NUMBER 24055 | |

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2 KEYMAP Demo Level 1 - Southeast

NOTE:
 • AT LOCATIONS WHERE EXISTING RACEWAYS PENETRATE WALL BELOW CEILING LEVEL, PROVIDE SMALL PLASTIC RACEWAY COVER TO INTERFACE BETWEEN CEILING AN EXISTING PENETRATION. THE MAJORITY OF WALL PENETRATIONS AND DATA CABLE/EMT RACEWAYS ARE SHOWN. IT IS THE INTENT THAT ALL DATA RACEWAYS/CONDUIT ARE RELOCATED ABOVE CEILING TILE EXCEPT FOR SHORT SECTION RIGHT AT EXISTING WALL PENETRATIONS. CURRENTLY NOT SHOWN; ASSUME THERE 30FT OF DATA RACEWAY AND 8 WALL PENETRATIONS ON THIS PROJECT BUT ARE TO BE REWORKED AS NOTED ABOVE. CURRENTLY NOT SHOWN, ASSUME THAT THERE ARE 40FT OF 1/2" EMT C. WITH 8#12 AWG POWER CABLES/WIRING, THAT NEED TO BE REWORKED/ROUTED ABOVE CEILING.



1 Demo - Level 1 - Power & Data Ceiling Conduit - Southeast
 1 : 200



| | | |
|---|---------------------|--------------|
| 4 | Reissued For Tender | Feb 11, 2025 |
| 3 | Reissued For Tender | Feb 03, 2025 |
| 2 | Issued For Tender | Jan 24, 2025 |

| NO. | DESCRIPTION | DATE |
|-------------------|-------------|------|
| REVISION SCHEDULE | | |

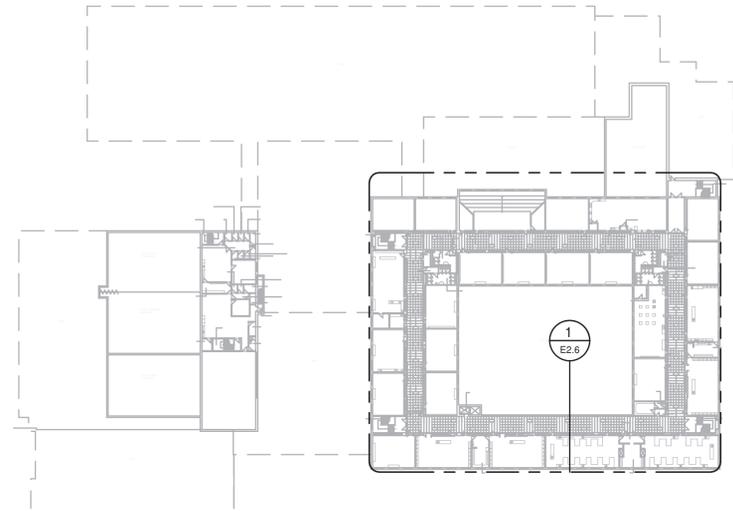


PROJECT NAME
Orchard Park Secondary School
 200 Dewitt Rd,
 Stoney Creek City, ON

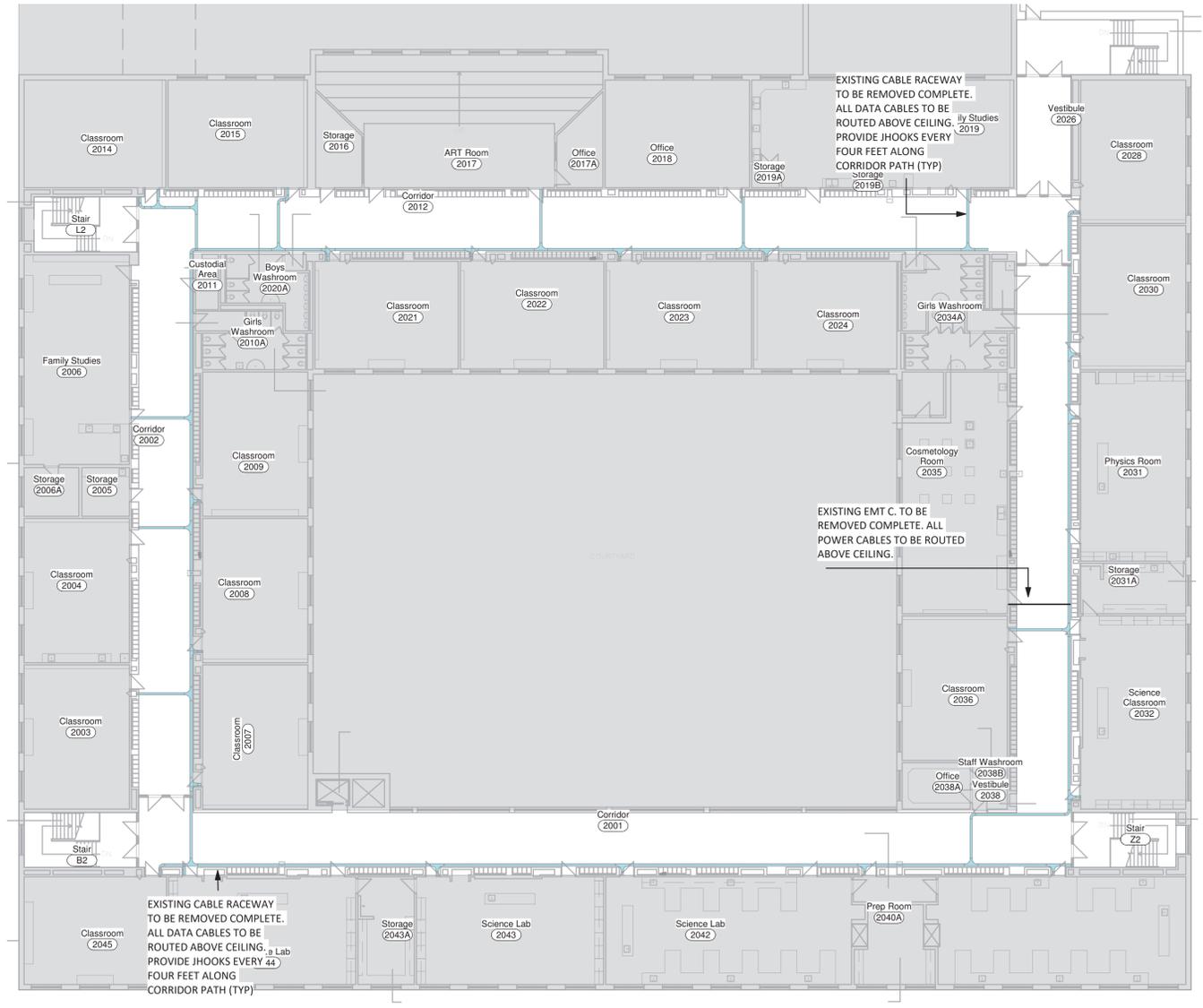
DRAWING TITLE
Demo Ceiling Cable tray & Conduit - Level 1 - Southeast

| | |
|-------------------------|-------------------------------|
| SCALE As indicated | DRAWING NUMBER E2.5 |
| SHEET SIZE 24"x36" | |
| PROJECT NUMBER 24055 | |

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 DRAWINGS ARE NOT TO BE SCALED.



2 KEYMAP Demo - Level 2



1 Demo - Level 2 - Power & Data Ceiling Conduit
 1 : 200

NOTE:
 • AT LOCATIONS WHERE EXISTING RACEWAYS PENETRATE WALL BELOW CEILING LEVEL, PROVIDE SMALL PLASTIC RACEWAY COVER TO INTERFACE BETWEEN CEILING AN EXISTING PENETRATION. THE MAJORITY OF WALL PENETRATIONS AND DATA CABLE/EMT RACEWAYS ARE SHOWN. IT IS THE INTENT THAT ALL DATA RACEWAYS/CONDUIT ARE RELOCATED ABOVE CEILING TILE EXCEPT FOR SHORT SECTION RIGHT AT EXISTING WALL PENETRATIONS. CURRENTLY NOT SHOWN: ASSUME THERE 30FT OF DATA RACEWAY AND 8 WALL PENETRATIONS ON THIS PROJECT BUT ARE TO BE REWORKED AS NOTED ABOVE. CURRENTLY NOT SHOWN, ASSUME THAT THERE ARE 40FT OF 1/2" EMT C. WITH 8#12 AWG POWER CABLES/WIRING, THAT NEED TO BE REWORKED/ROUTED ABOVE CEILING.



| | | |
|---|---------------------|--------------|
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| 2 | Issued For Tender | Jan 24, 2025 |

| NO. | DESCRIPTION | DATE |
|-------------------|-------------|------|
| REVISION SCHEDULE | | |



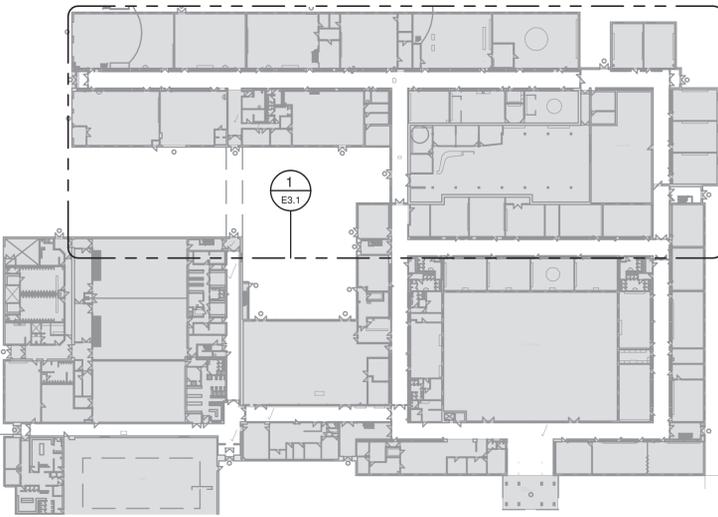
1920 YONGE ST, SUITE 200
 TORONTO, ON, M4S 3E2

PROJECT NAME
Orchard Park Secondary School
 200 Dewitt Rd,
 Stoney Creek City, ON

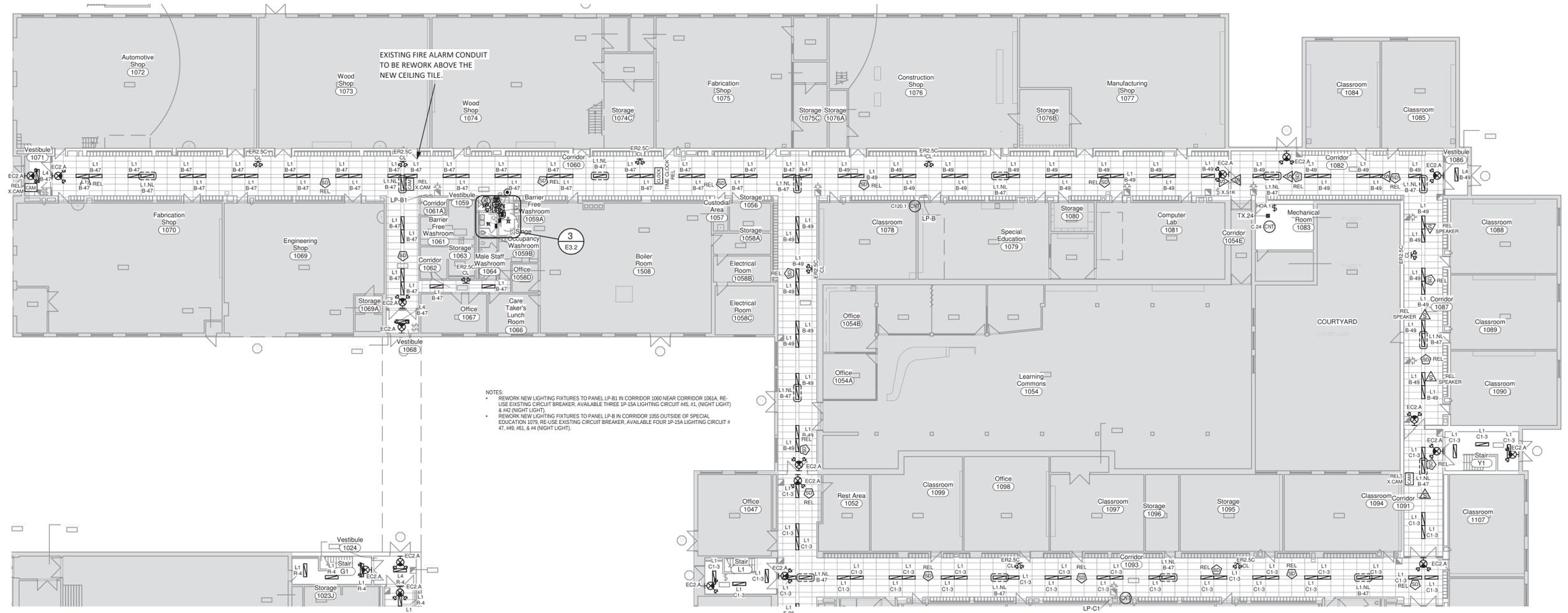
DRAWING TITLE
Demo Ceiling Cable tray & Conduit - Level 2

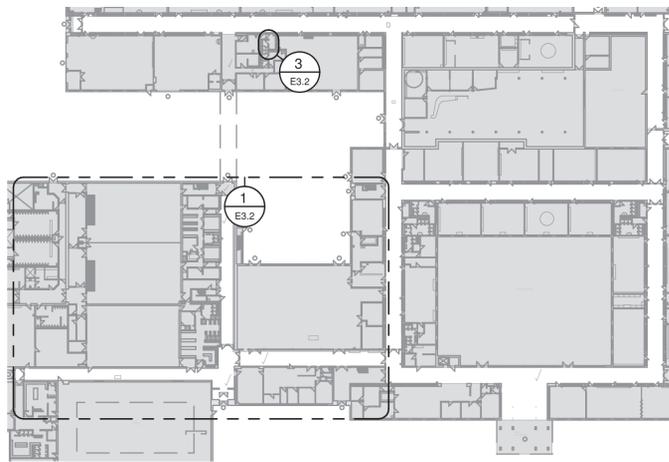
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|-------------------------|-------------------------------|
| SCALE As indicated | DRAWING NUMBER E2.6 |
| SHEET SIZE 24"x36" | |
| PROJECT NUMBER 24055 | |

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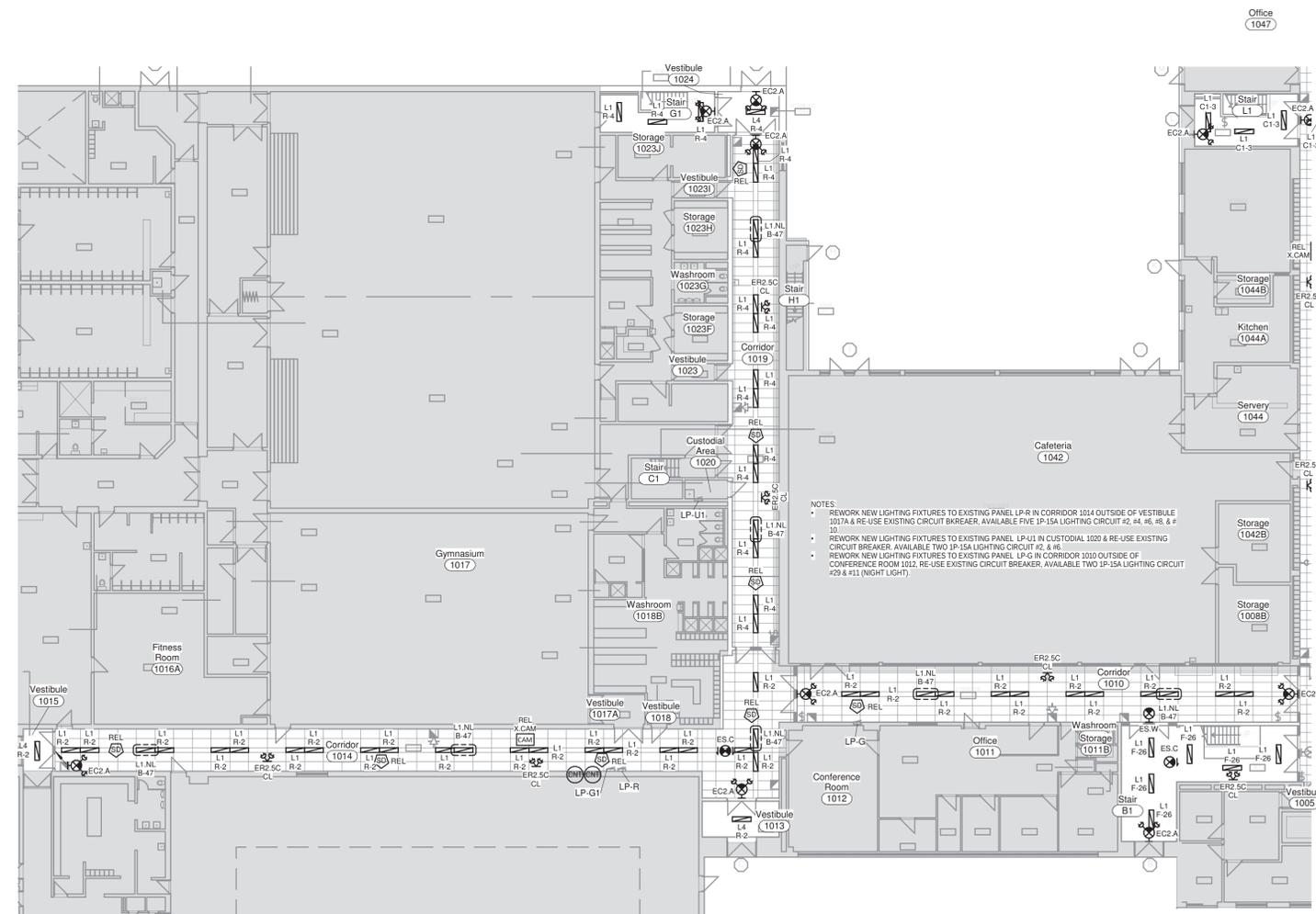


2 KEYMAP - Level 1 North
 1 : 750

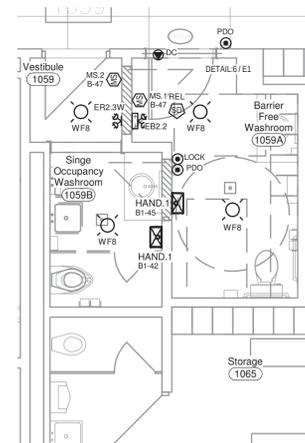




2 KEYMAP - Level 1 - South
1 : 750



1 Proposed - Level 1 - Power, Lighting & Life-Safety - Southwest
1 : 200



3 Proposed Barrier Free Washroom
1 : 50

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| NO. | DESCRIPTION | DATE |
|-----|---------------------|--------------|
| 4 | Reissued For Tender | Feb 11, 2025 |
| 3 | Reissued For Tender | Feb 03, 2025 |
| 2 | Issued For Tender | Jan 24, 2025 |
| 1 | Issued For Permit | Dec 20, 2024 |

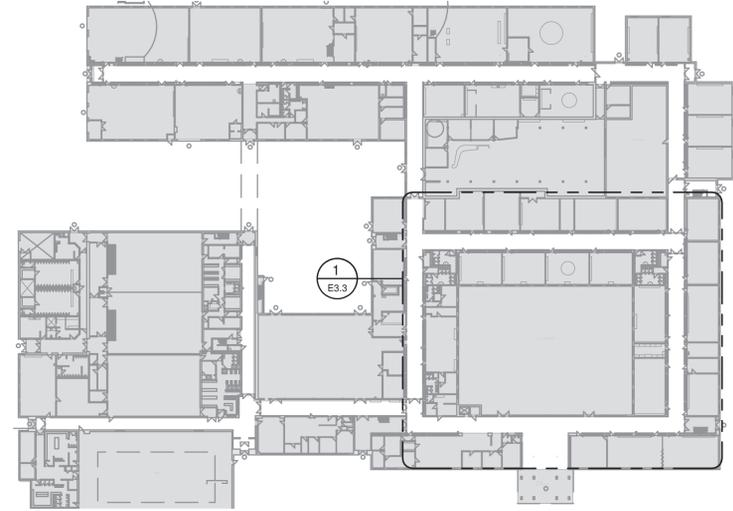


PROJECT NAME
Orchard Park Secondary School
200 Dewitt Rd.
Stoney Creek City, ON

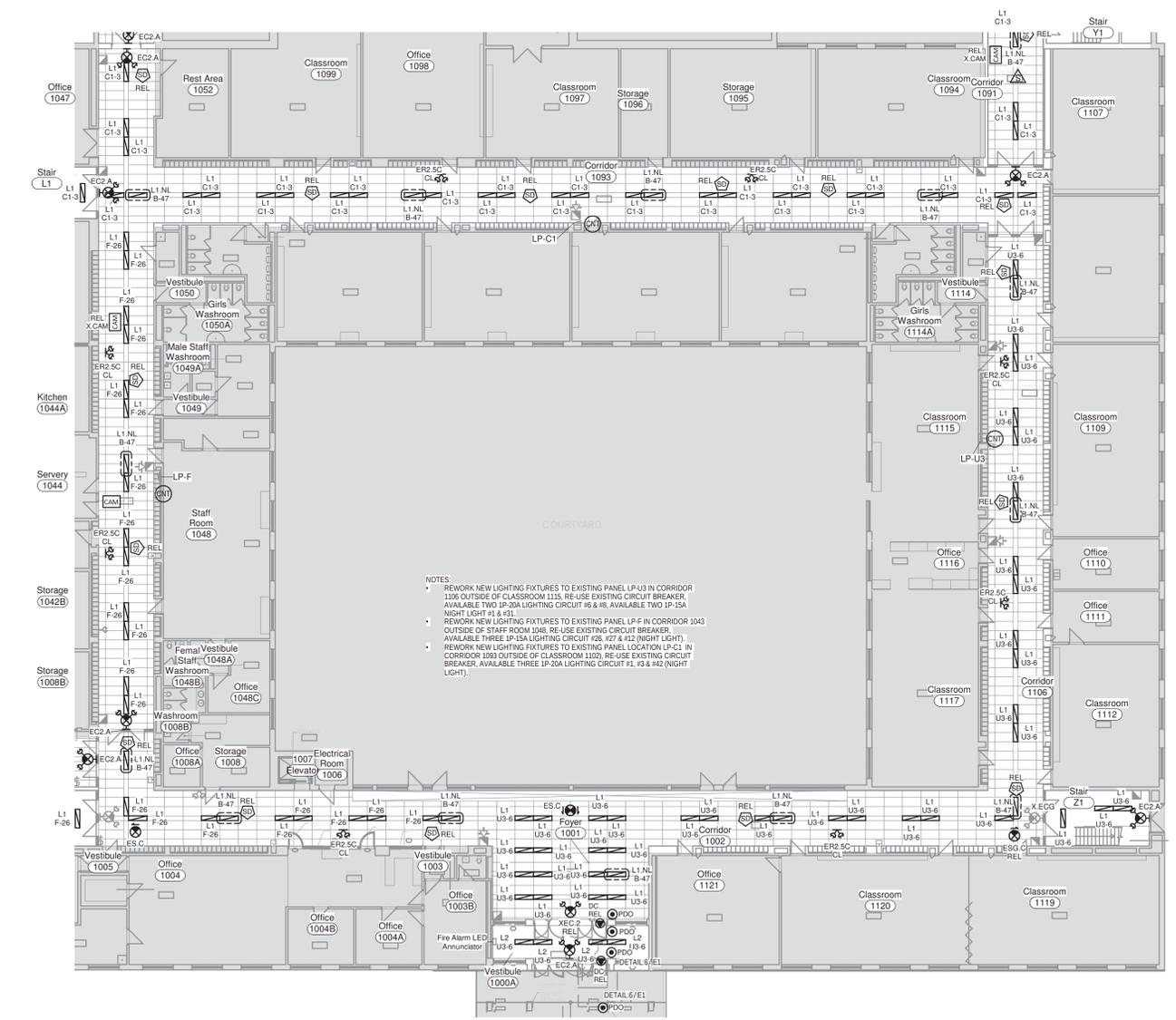
DRAWING TITLE
Proposed RCP Level 1 - South & WR

| | |
|-----------------------|-------------------------------|
| SCALE As indicated | DRAWING NUMBER E3.2 |
| SHEET SIZE 24"x36" | PROJECT NUMBER 24055 |

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2 KEYMAP Level 1 - Southeast
 1 : 750



NOTES
 • REWORK NEW LIGHTING FIXTURES TO EXISTING PANEL LP4/3 IN CORRIDOR 1106 OUTSIDE OF CLASSROOM 1115. RE-USE EXISTING CIRCUIT BREAKER, AVAILABLE TWO 1P-20A LIGHTING CIRCUIT #8 & 9. AVAILABLE TWO 1P-15A NIGHT LIGHT #1 & #31.
 • REWORK NEW LIGHTING FIXTURES TO EXISTING PANEL LP-2 IN CORRIDOR 1043 OUTSIDE OF STAFF ROOM 1048. RE-USE EXISTING CIRCUIT BREAKER, AVAILABLE THREE 1P-15A LIGHTING CIRCUIT #26, #27 & #12 (NIGHT LIGHT).
 • REWORK NEW LIGHTING FIXTURES TO EXISTING PANEL LOCATION LP-C1 IN CORRIDOR 1093 OUTSIDE OF CLASSROOM 1102. RE-USE EXISTING CIRCUIT BREAKER, AVAILABLE THREE 1P-20A LIGHTING CIRCUIT #1, #3 & #42 (NIGHT LIGHT).

1 Proposed - Level 1 - Power, Lighting & Life-Safety - Southeast
 1 : 200



| NO. | DESCRIPTION | DATE |
|-----|---------------------|--------------|
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| 3 | Reissued For Tender | Feb 03, 2025 |
| 2 | Issued For Tender | Jan 24, 2025 |
| 1 | Issued For Permit | Dec 20, 2024 |



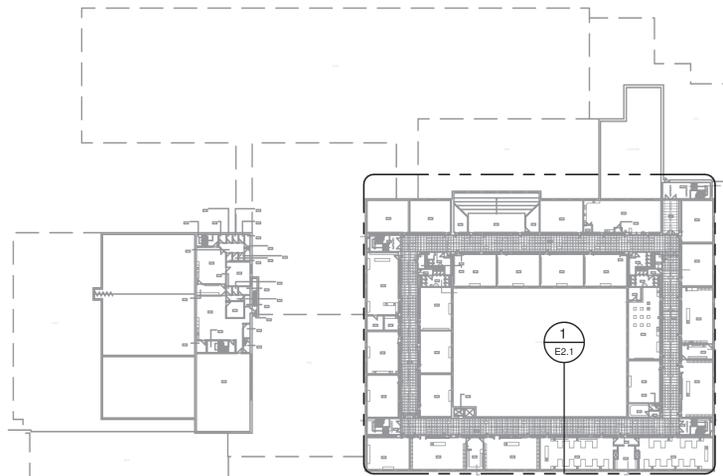
PROJECT NAME
Orchard Park Secondary School
 200 Dewitt Rd.
 Stoney Creek City, ON

DRAWING TITLE
Proposed RCP Level 1 - South/East

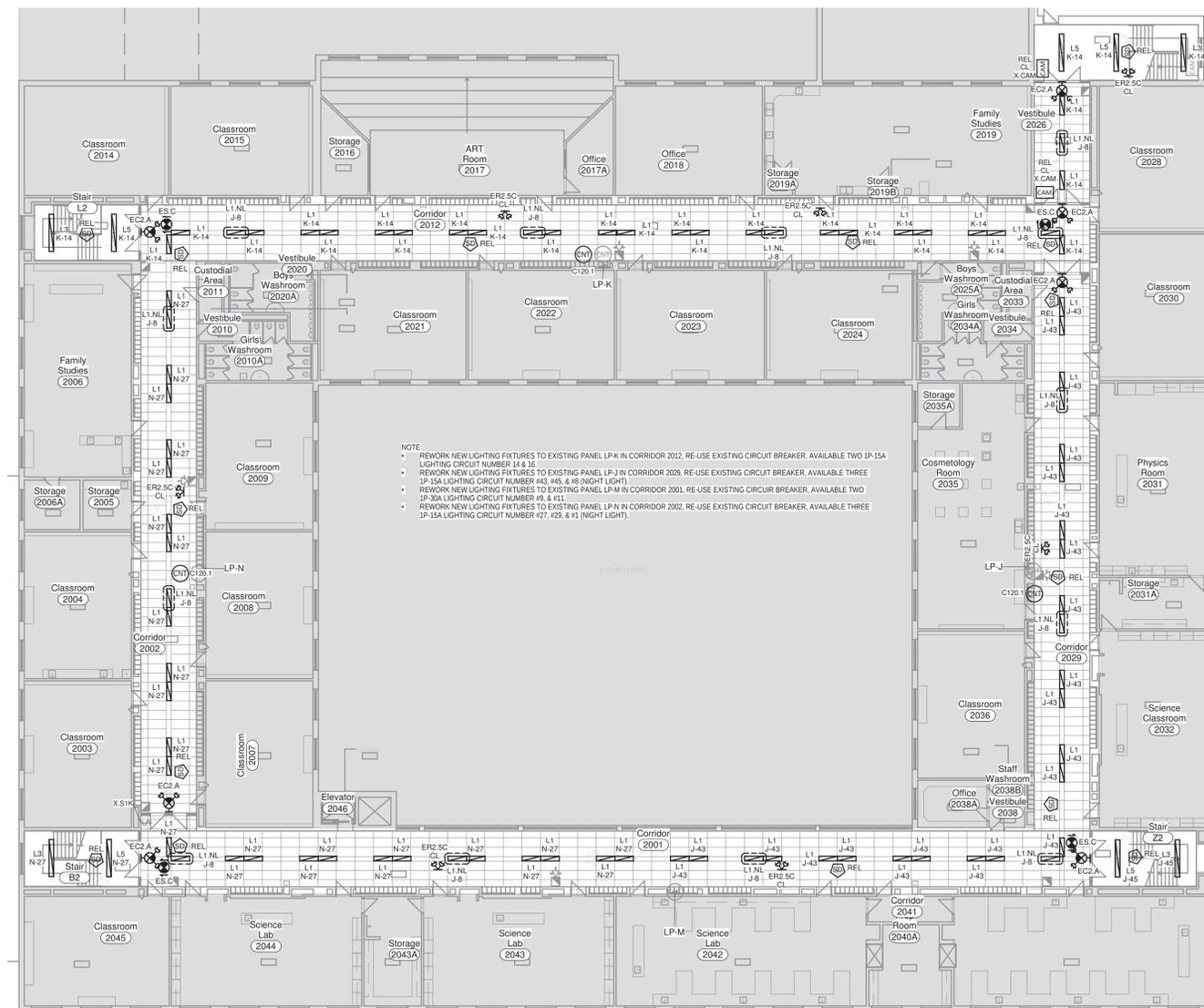
| | |
|-----------------------|-------------------------------|
| SCALE As indicated | DRAWING NUMBER E3.3 |
| SHEET SIZE 24"x36" | PROJECT NUMBER 24055 |

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 DRAWINGS ARE NOT TO BE SCALED.

PROJECT NORTH



2 KEYMAP - Level 2
1 : 750



NOTE:
 • REWORK NEW LIGHTING FIXTURES TO EXISTING PANEL LP-K IN CORRIDOR 2012. RE-USE EXISTING CIRCUIT BREAKER, AVAILABLE TWO 1P-15A LIGHTING CIRCUIT NUMBER 14 & 15.
 • REWORK NEW LIGHTING FIXTURES TO EXISTING PANEL LP-J IN CORRIDOR 2029. RE-USE EXISTING CIRCUIT BREAKER, AVAILABLE THREE 1P-15A LIGHTING CIRCUIT NUMBER 40, 45, & 46 (NO.1 LIGHT).
 • REWORK NEW LIGHTING FIXTURES TO EXISTING PANEL LP-M IN CORRIDOR 2001. RE-USE EXISTING CIRCUIT BREAKER, AVAILABLE TWO 1P-30A LIGHTING CIRCUIT NUMBER 49, & 111.
 • REWORK NEW LIGHTING FIXTURES TO EXISTING PANEL LP-N IN CORRIDOR 2002. RE-USE EXISTING CIRCUIT BREAKER, AVAILABLE THREE 1P-15A LIGHTING CIRCUIT NUMBER 127, 129, & 131 (NO.1 LIGHT).

1 Proposed - Level 2 - Lighting & Life-Safety Plan
1 : 200



| NO. | DESCRIPTION | DATE |
|-----|---------------------|--------------|
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| 2 | Issued For Tender | Jan 24, 2025 |
| 1 | Issued For Permit | Dec 20, 2024 |

REVISION SCHEDULE



1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2

PROJECT NAME
Orchard Park Secondary School
 200 Dewitt Rd,
 Stoney Creek City, ON

DRAWING TITLE
Proposed RCP Level 2

| SCALE | DRAWING NUMBER |
|-------------------------|----------------|
| As indicated | E3.4 |
| SHEET SIZE 24"x36" | |
| PROJECT NUMBER 24055 | |

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DRAWINGS ARE NOT TO BE SCALED.

| 1 - Total New/Relocated - Low Voltage Device Schedule | | | | | | |
|---|-----------|------------|---|--|-------------|--|
| CURRENT SCHEDULE PHASE: Tender | | | SHOWING PHASE ITEMS: Show Previous + New | | | |
| Qty | Relocated | Type | Conduit | Description | Phase Added | |
| 1 | No | LOCK | 16mm EMT | Universal Washroom Lock Button. Device box & conduit to Door controller. | Tender | |
| 6 | No | PDO | 16mm EMT | Power Door Operator; Device box & conduit to Door controller. | Tender | |
| 6 | Yes | SPEAKER | 21mm EMT | Surface Mount Device Box & EMT, Daisy Chain between devices; Home Run EMT to Main Communication Backboard. | Tender | |
| 1 | No | TIME CLOCK | Unknown Conduit, relocated to new ceiling tile. | Existing ceiling mounted Digital Time Clock | Tender | |
| 8 | Yes | X.CAM | Unknown Conduit | Existing Security Camera. | Tender | |
| 2 | No | X.SPEAKER | Unknown Conduit | Existing surface mounted speaker at high level. | Tender | |
| Total: 24 | | | | | | |

| 2 - Total New/Relocated - Electrical Equipment Schedule | | | | | | |
|---|----------|-----------------|---|-----------|----------|-------------|
| CURRENT SCHEDULE PHASE: Tender | | | SHOWING PHASE ITEMS: Show Previous + New | | | |
| Qty | Equip ID | Description | Type Comments | Enclosure | Mounting | Phase Added |
| 2 | HAND.1 | Hand Dryer | 120V, 12.2A 1450W; White Thermoset Resin; 8 second PCR guideline drytime; 62-75dBA, 34-64 CFM; 32C to 67C, 322mm H x 170mm D x 290mm W; Mounted at 1140mm Mens, 1090mm Womens Washroom. | Type 1 | Surface | Tender |
| 1 | TX.24 | BAS Transformer | Provide 120V:24V 40VA (Doorbell style) Transformer for BAS Control system use, confirm location on site. Connect to nearest lighting circuit. | Type 1 | Surface | Tender |
| Total: 3 | | | | | | |

| 3 - Total New/Relocated - Electrical Device Schedule | | | | | | |
|--|---------|----------------------------|---|-------------|--|--|
| CURRENT SCHEDULE PHASE: Tender | | | SHOWING PHASE ITEMS: Show Previous + New | | | |
| Qty | Type ID | Description | Type Comments | Phase Added | | |
| 3 | DC | Direct Hardwire Connection | Powered Door Controller; Wired to line side of local lighting circuit. Estimated ~300W non-continuous load. | Tender | | |
| Total: 3 | | | | | | |

| 4 - Total New/Relocated - Fire Alarm Device Schedule | | | | | | |
|--|-----------|-------|--|----------------|-------------|--|
| CURRENT SCHEDULE PHASE: Tender | | | SHOWING PHASE ITEMS: Show Previous + New | | | |
| Qty | Relocated | Model | Description | Type Comments | Phase Added | |
| 53 | Yes | | Fire Alarm Initiating | Smoke Detector | Tender | |
| Total: 53 | | | | | | |

| 5 - Total New/Relocated - Lighting Control Device Schedule | | | | | | |
|--|--------|---------------|--|--|--|-------------|
| CURRENT SCHEDULE PHASE: Tender | | | SHOWING PHASE ITEMS: Show Previous + New | | | |
| Qty | Type | Mfg. | Model | Description | Type Comments | Phase Added |
| 9 | C120.1 | TBD | TBD | Electrically Held Lighting Contactor, 2-Pole Normally Open | 120V Control; 30A 120V Contacts for 15A lighting circuits; Provide Steel junction box in ceiling space, confirm location on site. | Tender |
| 1 | C.24 | TBD | TBD | Electrically Held Lighting Contactor, 2-Pole Normally Open | 24V Control; 30A 120V Contacts for 15A lighting circuits; Provide Steel junction box in ceiling space, confirm location on site. | Tender |
| 1 | HOA.1 | TBD | TBD | Hand-Off Auto | 120V; Master On/Off/Auto control of lighting contactor. Surface Mounted equipment. Coordinate Location on site. PROVIDE 2#14AWG WIRE + BOND BETWEEN BAS SYSTEM LOCATED WITH MECHANICAL ROOM AND 24V CONTACTOR AND 24V CONTROL TRANSFORMER. 24V CONTACTOR MAY BE INTEGRATED WITHIN HOA CONTROL SWITCH, AS A COMPLETE PACKAGE. | Tender |
| 1 | MS.1 | Sensor Switch | WSX SA WH | PIR Wall Switch Occ Sensor, Manual On | 120V; Vacancy; White | Tender |
| 1 | MS.2 | Sensor Switch | WSX WH | PIR Wall Switch Occ Sensor, Auto On/Off | 120V; Auto-On; White | Tender |
| Total: 13 | | | | | | |

| 6 - Total New/Relocated - Lighting Fixture Schedule | | | | | | | | | | |
|---|-------|--------|-----------|---------------|--|-----------|---------|--|--|-------------|
| CURRENT SCHEDULE PHASE: Tender | | | | | SHOWING PHASE ITEMS: Show Previous + New | | | | | |
| Qty | Image | Type | Relocated | Mfg. | Model# | Mounting | Height | Description | Remarks | Phase Added |
| 1 | | EB2.2 | No | Stanpro | SLA12-2L | Wall | 2300mm | Easy Out Steel Battery Unit, Emergency Light | 12V, 72W for 30min, 2-2.5W Par18 LED Heads (2x183lm), White, Don't exceed battery capacity with additional remote lighting heads. Connect to Line Side of Local Lighting Circuit | Tender |
| 33 | | EC2.A | No | Stanpro | PRMS12-2L | Wall | 2300mm | "Easy Out" Steel Combo Running Man Pictogram Exit; Universal Faces | 12V, 72W for 30min; 2-2.5W Par18 LED Heads; White, Don't exceed battery capacity with additional remote lighting heads; Connect to Line Side of Local Lighting Circuit | Tender |
| 1 | | ER2.3W | No | Stanpro | M.2.06-24.4W.LR.WH | Wall | 2300mm | Decorative Remote Heads | 06-24V, 2-4W LR MR16 LED Heads (2x310lm), Die Cast Metal, White, Connect to nearest battery unit without exceeding battery capacity | Tender |
| 28 | | ER2.5C | No | Stanpro | N.2.06-12V.SW.LJ.WH | Ceiling | 2300mm | Plastic Mini Remote Heads | 06-12V, 2-5W LJ Par18 LED Heads (2x655lm), Plastic, White, Connect to nearest battery unit without exceeding battery capacity | Tender |
| 8 | | ES.C | No | Stanpro | RMS.0.WH.IB | Ceiling | Ceiling | Running Man Pictogram Exit Sign | LED; Steel, 90min internal battery, Universal Faces; 1.9W 120/277/347V Field Selectable | Tender |
| 1 | | ES.W | No | Stanpro | RMS.0.WH.IB | Wall | 2300mm | Running Man Pictogram Exit Sign | LED; Steel, 90min internal battery, Universal Faces; 1.9W 120/277/347V Field Selectable | Tender |
| 1 | | ESG.C | Yes | | Existing | Ceiling | Ceiling | Emergency Exit Sign - Ceiling Mount; Green Pictogram | | Tender |
| 282 | | L1 | No | Signify | 1FPZ30L840-4-05-120-DIM-S WZCSR | Recessed | Ceiling | LED 1x4 Flat Panel | 25W, 3000 lumens, 120V, 80CRI, 4000K Color Temp, 0-10V Dimming, remote interact scalable sensor with occupancy sensing, fixture set to automatically dim to 50% on vacancy after 10minutes; For proposed alternate lighting fixtures without an integral motion sensor, include for one separate automatic dimming to 50% motion sensor & wiring for every 4 fixtures. Provide 5 additional separate motion sensors to be located and installed on site to fill in for any possible coverage issues. | Tender |
| 43 | | L1.NL | No | Signify | 1FPZ30L840-4-05-120-DIM-S WZCSR | Recessed | Ceiling | LED 1x4 Flat Panel | 25W, 3000 lumens, 120V, 80CRI, 4000K Color Temp, 0-10V Dimming, remote interact scalable sensor with occupancy sensing, fixture set to automatically dim to 50% on vacancy after 10minutes; For proposed alternate lighting fixtures without an integral motion sensor, include for one separate automatic dimming to 50% motion sensor & wiring for every 4 fixtures. Provide 5 additional separate motion sensors to be located and installed on site to fill in for any possible coverage issues. | Tender |
| 4 | | L2 | No | Signify | 1FPZ30L840-4-05-120-DIM-S WZCSR-FSF14 | Surface | Ceiling | LED Flat Panel | 25W, 3000 lumens, 120V, 80CRI, 4000K Color Temp, 0-10V Dimming, remote interact scalable sensor with occupancy sensing, fixture set to automatically dim to 50% on vacancy after 10minutes; For proposed alternate lighting fixtures without an integral motion sensor, include for one separate automatic dimming to 50% motion sensor & wiring for every 2 fixtures. Provide 5 additional separate motion sensors to be located and installed on site to fill in for any possible coverage issues, 1x4 Surface mount field assembly kit | Tender |
| 4 | | L3 | No | Mark Lighting | S4PID-LP-MSL8-80CRI-40K-800LMF-180CRI-140K-1300LM F-SCT-MIND1-FLL-MVOLT-W HTT-ZT-PDT-F2-72A-RDCY-W HTCY-WCRD | Suspended | Ceiling | Generic Suspended Mount 1x4 LED | SLOT 4 Pendant Indirect/Direct, Linear longest possible, 8ft length, 80 CRI, 4000K Colour temperature, 800 Lumens per foot, lambertian, indirect 80CRI, indirect 4000K Colour temperature, indirect 300 lumens per foot, lambertian, single circuit, constant current, dimming to 1%, flush lens, no indirect shielding, multi-voltage 120-277V, White satin, 0-10V, Dual technology occupancy sensor, PIR and Microphonic sensor, Hard Ceiling, Square Round canopy, 72" Adjustable, White Canopy, White cord, For proposed alternate lighting fixtures without an integral motion sensor, include for one separate automatic dimming to 50% motion sensor & wiring for every 2 fixtures. Provide 5 additional separate motion sensors to be located and installed on site to fill in for any possible coverage issues, 1x4 Surface mount field assembly kit. | Tender |
| 6 | | L4 | No | Signify | 1FPZ50L840-4-05-120-DIM-S WZCSR | Recessed | Ceiling | LED Flat Panel | 42W, 5000 lumens, 120V, 80CRI, 4000K Color Temp, 0-10V Dimming, remote interact pro scalable sensor with occupancy sensing, fixture set to automatically dim to 50% on vacancy after 10minutes; For proposed alternate lighting fixtures without an integral motion sensor, include for one separate automatic dimming to 50% motion sensor & wiring for every 2 fixtures. Provide 5 additional separate motion sensors to be located and installed on site to fill in for any possible coverage issues. | Tender |
| 5 | | L5 | No | Mark Lighting | S4SD-L1p-MSL8-80CRI-40K-800LMF-SCT-MINI-FLL-MVOLT-T-WHTT-ZT-APDT | Recessed | Surface | LED Flat Panel | SLOT4 Surface Direct, Linear longest possible, 8ft Length, 80CRI, 4000K Colour temperature, 800 lumens per foot, lambertian, single circuit, Constant current, Dimming to 1%, flush lens, Multi-volt 120-277V, White satin, 0-10V, Dual Technology Occupancy and daylight dimming sensor, For proposed alternate lighting fixtures without an integral motion sensor, include for one separate automatic dimming to 50% motion sensor & wiring for every 2 fixtures. Provide 5 additional separate motion sensors to be located and installed on site to fill in for any possible coverage issues, 1x4 Surface mount field assembly kit. | Tender |
| 4 | | WF8 | No | Lithonia | WF8-SWWS-90CRI-MW | Recessed | Ceiling | Wafer LED Recessed Downlight | 8" Wafer-Thin LED Downlight, Round, Switchable Light, 90-CRI, Matte White | Tender |
| 1 | | XEC.2 | Yes | | Existing | Ceiling | Ceiling | Emergency Exit/Combo Sign - Ceiling Mount; 2-Head Emerg Light; Green Pictogram | Assumed 9W Incandescent | Tender |
| Total: 422 | | | | | | | | | | |

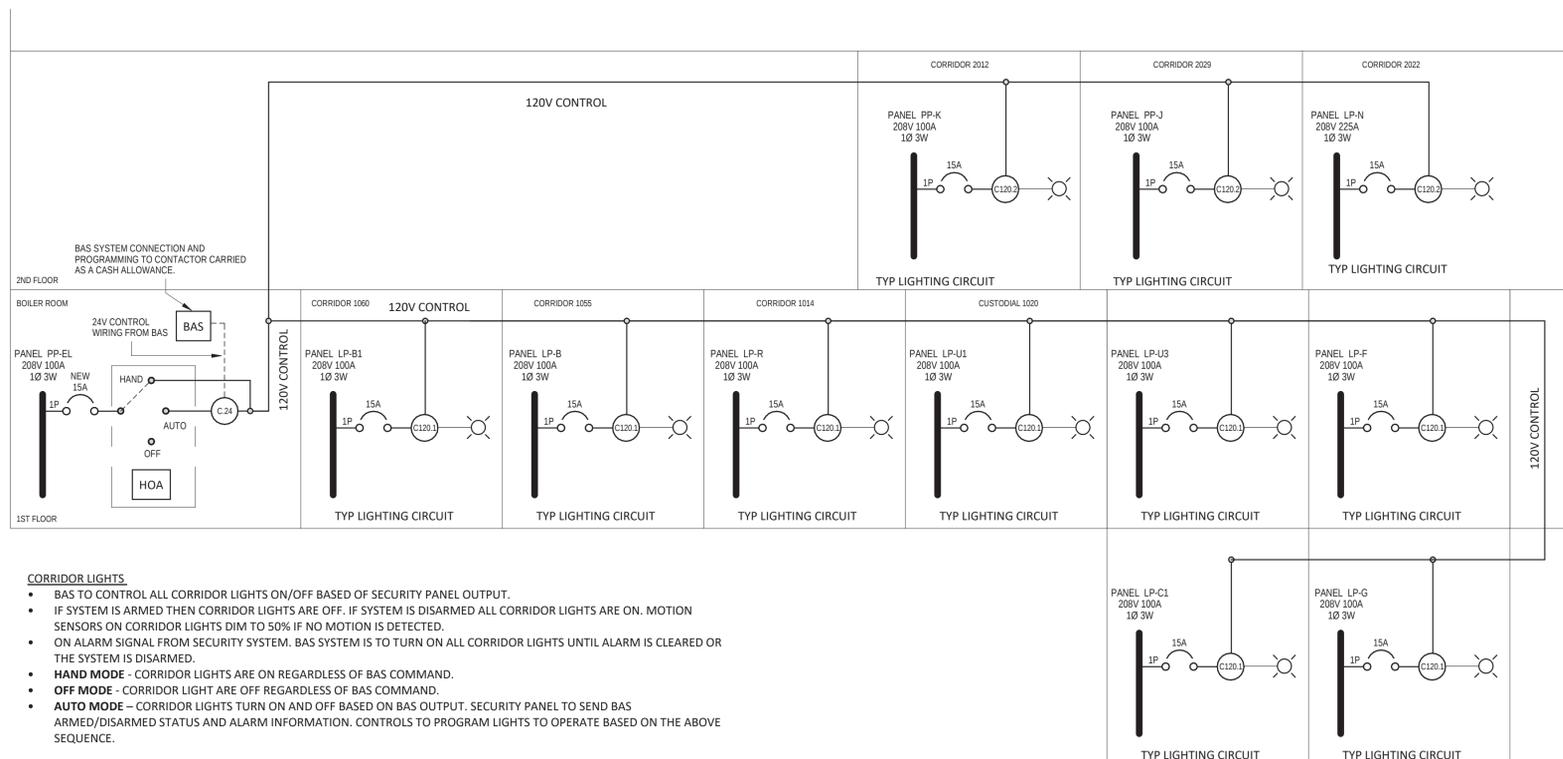
PANEL

| | PANEL | EXISTING LIGHTING CCT | REUSED CCTS |
|--------------|-------------|--------------------------|-------------|
| FIRST FLOOR | PANEL LP-B | B-47, B-49, B-61, B-4 | B-47, B-49 |
| | PANEL PP-B1 | B1-1, B1-42, B1-45 | |
| | PANEL PP-R | R-2, R-4, R-6, R-8, R-10 | R-2, R-4 |
| | PANEL PP-U1 | U1-2, U1-6 | U1-2 |
| | PANEL LP-G | G-11, G-29 | |
| SECOND FLOOR | PANEL LP-U3 | U3-6, U3-8, U3-1 | U3-6 |
| | PANEL PP-F | F-12, F-25, F-27 | F-26 |
| | PANEL LP-C1 | C1-1, C1-3, C1-42 | C1-3 |
| | PANEL LP-K | K-14, K-16 | K-14 |
| | PANEL LP-J | J-43, J-45, J-8 | J-43 |
| | PANEL LP-M | M-9, M-11 | |
| | PANEL LP-N | N-27, N-29, N-1 | N-27 |

NOTES:

- EXISTING LIGHTING CIRCUIT TO BE REWIRED TO REDUCE THE NUMBER OF CIRCUITS USED AS NOTED. UNUSED CIRCUITS TO BE LABELED IN PANEL SCHEDULE AS SPARE.
- EXISTING EXIT SIGNS NOTED (6 TOTAL) ON 2ND FLOOR CORRIDORS ON CIRCUIT J-22 TO REMAIN. RELABEL PANEL SCHEDULE EXIT SIGNS.
- EXISTING CIRCUITING HAS BEEN DOCUMENTED AS BEST AS PRACTICABLE. CONTRACTOR TO VERIFY ACTUAL CIRCUITING ON SITE PRIOR TO RELATED WORK.
- EXISTING CIRCUIT B1-42 & B1-45 TO DISCONNECT ON EXISTING LIGHTING CONTACTOR. THIS CIRCUITS TO BE RE-USED IN HANDDRYER.

Panel Schedule - Lighting Circuits



CORRIDOR LIGHTS

- BAS TO CONTROL ALL CORRIDOR LIGHTS ON/OFF BASED OF SECURITY PANEL OUTPUT.
- IF SYSTEM IS ARMED THEN CORRIDOR LIGHTS ARE OFF. IF SYSTEM IS DISARMED ALL CORRIDOR LIGHTS ARE ON. MOTION SENSORS ON CORRIDOR LIGHTS DIM TO 50% IF NO MOTION IS DETECTED.
- ON ALARM SIGNAL FROM SECURITY SYSTEM. BAS SYSTEM IS TO TURN ON ALL CORRIDOR LIGHTS UNTIL ALARM IS CLEARED OR THE SYSTEM IS DISARMED.
- HAND MODE** - CORRIDOR LIGHTS ARE ON REGARDLESS OF BAS COMMAND.
- OFF MODE** - CORRIDOR LIGHT ARE OFF REGARDLESS OF BAS COMMAND.
- AUTO MODE** - CORRIDOR LIGHTS TURN ON AND OFF BASED ON BAS OUTPUT. SECURITY PANEL TO SEND BAS ARMED/DISARMED STATUS AND ALARM INFORMATION. CONTROLS TO PROGRAM LIGHTS TO OPERATE BASED ON THE ABOVE SEQUENCE.

BAS System

| NO. | DESCRIPTION | DATE |
|-----|---------------------|--------------|
| 4 | Reissued For Tender | Feb 11, 2025 |
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| 1 | Issued For Permit | Dec 20, 2024 |

REVISION SCHEDULE



1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2

PROJECT NAME
Orchard Park Secondary School
200 Dewitt Rd.
Stoney Creek City, ON

DRAWING TITLE
Schedules & Details

| SCALE | DRAWING NUMBER |
|-------------------------|----------------|
| 1 : 1 | E4 |
| SHEET SIZE 24"x36" | |
| PROJECT NUMBER 24055 | |